



Environmental Services & Consulting LLC

101 Professional Park Drive, Suite 303 Blacksburg, Virginia 24060
Tel: 888.995.2782 • Fax: 540.552.1528 • eMail: info@es-and-c.com

February 18, 2008

Chuck Bowman
Department of Administration
Purchasing Division
2019 Washington Street East
P.O. Box 50130
Charleston, WV 25305-0130

RE: RFQ# DEP13868
Via: UPS

Mr. Bowman,

This letter and attachments will serve as our response to the recent request for quotations to provide all instrumentation necessary to identify benthic macroinvertebrate samples for the Division of Water and Waste Management. Environmental Services & Consulting, LLC (ES&C) is a woman-owned, certified HubZone small business concern with a background focusing on benthic macroinvertebrate studies and related issues. We have been in business since 1999, and currently have highly experienced taxonomists and laboratory personnel on staff and available to work your project. Please find attached to this letter the quotation forms provided by the Purchasing Division, ES&C's statement of Qualifications which includes a listing of key personnel who will be working on this project, and associated resumes and certifications. Additional information about our company and services can also be found on our website at www.es-and-c.com.

Qualifications and Related Experience

Since our beginnings, ES&C has strived to provide exceptional services focusing on aquatic macroinvertebrate studies and taxonomy. Our employees have over 26 years combined professional and academic experience in macroinvertebrate studies. We currently have the capacity to process several large-scale macroinvertebrate processing and identification projects (>200 samples per year). Each month, our NABS certified taxonomist processes numerous benthic samples. In 2007, ES&C processed 727 samples, and identified 471,031 individual organisms. Please see the attached SOQ for qualifications.

Sample Pickup and Delivery

ES&C's current location in Blacksburg, Virginia, will allow for both pickup and return delivery of samples by ES&C personnel at no added cost to the Department.

Removal of Organisms from Stream Debris

ES&C maintains a staff of trained macroinvertebrate sorting technicians, who are experienced and have the instrumentation for sorting samples according to any of a

number of protocols, including but not limited to EPA RBPII, Virginia Stream Condition Index, and Maryland Stream Biomonitoring protocols.

Identification of the sample to the genus level and Electronic Submission of Results

ES&C routinely processes between 50-250 benthic samples per month, the majority of which require genus level identification. Additionally, ES&C uses a Laboratory Information System (LIMS) which tracks all samples from receipt to return, and upon entry of data, is able to provide results in any format (hard copy, spreadsheet, or database file) desired by our clients.

Legal Representation

Should legal testimony be requested, ES&C personnel will testify to the validity of its laboratory analysis in the following areas:

1. Time of notification by the DEP / DWWM of sample shipment and by whom
2. Condition of sample.
3. How sample was preserved by ES&C
4. Dates and Analysis and by whom.
5. Chain of Custody procedures within the laboratory.
6. Methods Used, and
7. Results of Analysis.

At no time will ES&C respond to questions concerning interpretation of results

Subcontractors

ES&C will be the prime vendor under the terms and conditions of the contract. ES&C has chosen to subcontract with the Great Lakes Environmental Center (GLEC) in Traverse City Michigan to provide added expertise with the identification and quality control duties of this contract. Attached at the end of this document are the resume and NABS certifications for Mr. Don McNew, GLEC's benthic coordinator. Additional documentation will be provided if requested.

Quality Assurance

ES&C currently maintains a stringent Quality Assurance / Quality Control program for all aspects of processing. Ten percent of all samples are re-sorted by a second qualified sorter, for a minimum 90% sorting efficiency (ideally 95% or better). Additionally the QC officer randomly spot-checks individual grids/trays from samples in process to ensure standard's are maintained. On identification of samples, ES&C has adopted the same QA/QC protocols recently used in the 2004 EPA Eastern Wadeable Streams Project. Ten Percent of all samples are re-identified by a second qualified taxonomist. The results are compared in order to determine numerical differences, straight taxonomic differences, and hierarchical taxonomic differences. Where straight taxonomic differences exist, the original taxonomist is notified of the possible error and given a chance to review the specific taxa in question. When taxonomic errors are irresolvable

in house, an outside expert may be called upon to provide a third opinion, which is what is accepted.

Timelines

We have the personnel and capacity to meet the desired goals under a contract within specified deadlines.

- Samples submitted by April 1 are due August 31
- Samples submitted by August 31 are due Dec. 1
- Samples submitted by December 31 are due Feb. 28.
- Results of smaller, site specific projects will be available within one month of sample receipt, or within a mutually agreed upon time period.

Pricing

Please find pricing listed on the DEP13868 Bid Sheet attached at the end of this document. Pricing for sample processing includes all in house supplies (ex. slides and mounting media for midgets, etc), processing time, and internal QC of approximately 10% of all samples.

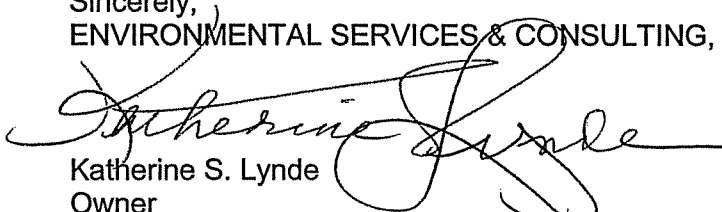
Conclusion

ES&C agrees with all of the Terms and Conditions outlined in the RFQ, and has the capability to perform all of the contract specifications for Benthic Macroinvertebrate Sample Processing and Identification.

The information provided in this response reflects the information requested. ES&C is considered a leading taxonomic laboratory and will be happy to provide you with additional information concerning our qualifications.

If you have any questions, or would like further information about our company and abilities, please don't hesitate to contact either myself, or our project coordinator Mr. Stuart Lynde at 540-552-0144 or slynde@es-and-c.com. Thank you for your interest in our company and I hope to speak with you soon.

Sincerely,
ENVIRONMENTAL SERVICES & CONSULTING, LLC


Katherine S. Lynde
Owner

Attachments:

1. Quotation Forms
2. Statement of Qualifications
3. Resumes / Certifications of Key Personnel



State of West Virginia
 Department of Administration
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Request for Quotation

RFQ NUMBER
 DEP13868

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ADDRESS: CORRESPONDENCE TO ATTENTION OF
 CHUCK BOWMAN
 304-558-2157

RFQ COPY

TYPE NAME/ADDRESS HERE
Environmental Services & Consulting
 101 Professional Park Dr.
 Suite 303
 Blacksburg VA 24066

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF WATER RESOURCES
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/08/2008				
BID OPENING DATE: 02/20/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
ADDENDUM ISSUED FOR THE BENTHIC MICROINVERTABRATE SAMPLE CONTRACT TO DISTRIBUTE THE AGENCY REVISED BID SCHEDULE.						
PLEASE USE THE ATTACHED WHEN SUBMITTING QUOTATION.						
BID DATE AND OPENING TIME ARE EXTENDED TO 02/20/2008 AT 1:30 PM.						
***** NO OTHER CHANGES *****						
0001	1	LS		493-09		
WATER, WASTE WATER AND SOIL SAMPLE ANALYSIS						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Arthur...* TELEPHONE: 540-552-0144 DATE: Feb 18, 2008

TITLE: *Owner* FEIN: 54-1963737 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE I ARFI FD 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

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



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ADDRESS CORRESPONDENCE TO ATTENTION FOR
CHUCK BOWMAN
304-558-2157

VENDOR

*C27124628 540-552-0144
ENVIRONMENTAL SERVICES & CONSU
101 PROFESSIONAL PARK DR
SUITE 303
BLACKSBURG VA 24060

BUYER

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF WATER RESOURCES
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

DATE PRINTED 01/20/2008	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
BID OPENING DATE: 02/14/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	UNIT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		493-09		
<p>WATER, WASTE WATER AND SOIL SAMPLE ANALYSIS</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING BIDS FROM QUALIFIED VENDORS TO PROVIDE ALL INSTRUMENTATION NECESSARY TO IDENTIFY BENTHIC MACROINVERTEBRATE SAMPLES FOR THE DIVISION OF WATER AND WASTE MANAGEMENT, PER THE ATTACHED SPECIFICATIONS, BID REQUIREMENTS, SCOPE OF WORK, TERMS & CONDITIONS, AND THE BID SCHEDULE.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR,</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Atherna Lunde</i>	TELEPHONE 540-552-0144	DATE Feb 18, 2008
TITLE Owner	FEIN 54-19 63 737	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
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 2019 Washington Street East
 Post Office Box 50130
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Request for Quotation

RFQ NUMBER
DEP13868

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ADDRESS CORRESPONDENCE TO/ATTENTION OF
CHUCK BOWMAN 304-558-2157

SPECIAL AGENT

*C27124628 540-552-0144
 ENVIRONMENTAL SERVICES & CONSU
 101 PROFESSIONAL PARK DR
 SUITE 303
 BLACKSBURG VA 24060

SPECIAL AGENT

ENVIRONMENTAL PROTECTION
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<p>SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Stherne J. [Signature]</i>	TELEPHONE 540-552-0144	DATE Feb 18, 2008	
TITLE 54-1963737	ADDRESS CHANGES TO BE NOTED ABOVE		

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<p>CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() 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</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS 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</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Cherise L. ...* TELEPHONE: 540-552-0144 DATE: Feb 18, 2008
 TITLE: Owner FEIN: 54-1963737 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>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.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() 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;</p> <p>OR</p> <p>() 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 BIDDERS' 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.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & 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) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; 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</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Robert J. ...* TELEPHONE: 540-552-0144 DATE: Feb 18, 2008

TITLE: *Owner* FEIN: 54-1963737 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFO INSERT NAME AND ADDRESS IN SPACE ABOVE I AM FID 'VENDOR'



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 304-558-2157**

***C27124628 540-552-0144**
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND 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.</p> <p>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.</p> <p>BIDDER: <u>Environmental Services & Consulting, LLC</u></p> <p>DATE: <u>Feb 18, 2008</u></p> <p>SIGNED: <u>[Signature]</u></p> <p>TITLE: <u>Owner</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <u>[Signature]</u>	TELEPHONE 540-552-0144	DATE Feb 18, 2008
TITLE <u>Owner</u>	FEIN 54-1963737	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ INSERT NAME AND ADDRESS IN SPACE ABOVE LABELLED 'VENDOR'



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***C27124628 540-552-0144**
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<p>MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: CB-23</p> <p>RFQ. NO.: DEP13868</p> <p>BID OPENING DATE: 02/14/2008</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 540-552-1528</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Johnnie K. ...</i>	TELEPHONE 540-552-0144	DATE Feb 18, 2008
TITLE Owner	FAX 54-1963737	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ INSERT NAME AND ADDRESS IN SPACE ABOVE I AM FID 'VENDOR'



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DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/20/2008				

BID OPENING DATE: **02/14/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- ***** THIS IS THE END OF RFQ DEP13868 ***** TOTAL: <u>\$125,150</u>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Charles...</i>	TELEPHONE 540-552-0144	DATE Feb 18, 2008
TITLE Owner	FEIN 54-1963737	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

STATE OF WEST VIRGINIA
Purchasing Division

030

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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 exceed five percent of the total contract amount.

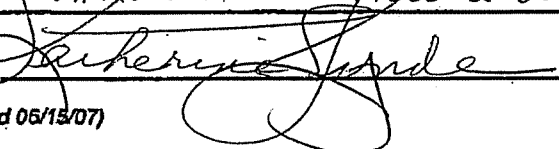
EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a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

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Environmental Services & Consulting, LLC

Authorized Signature:  Date: Feb 18, 2008

012

REVISED PER ADDENDUM NO. 1

DEP13868 BID SHEET

Item No.	Quantity	Description	Unit Price	Amount
A	500	Per sample un-sorted, identified to genus level: 200 organism subsample	169	84,500
B	50	Per sample pre-sorted, identified to genus level (necessary for quality assurance checks; 200 organism 200 organism subsample)	115	5,750
C	20	Per sample un-sorted, identified to genus level; entire sample.	1080	21,600
D	20	Per sample pre-sorted, identified to genus level (necessary for quality control assurance checks); entire sample	600	12,000
E	4	Per each "sample pick-up/delivery" not "per sample" (assume 100 samples per pickup)	0	0
F	20 hr	Cost/hour for professional staff representation of data in legal/administrative setting	65	1,300

TOTAL =

125,150

Contractor: Environmental Services & Consulting, LLC

Signature: 

Date: Feb 18, 2008

Quantities listed on the bid schedule are for bid evaluation purposes only and are not a guarantee of quantities to be ordered over the life of the contract. Actual quantities ordered may be more or less than those stated on this schedule.

Statement of Qualifications

Environmental Services & Consulting, LLC

Prepared by:
Environmental Services & Consulting, LLC
Blacksburg, VA

Date: Jan 13, 2008



101 N. Professional Park Drive, Suite 303
Blacksburg, Virginia 24060

Telephone: 540-552-0144
Facsimile: 540-552-1528

A Woman-Owned **HUBZone** Small Business

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1. INTRODUCTION

Environmental Services & Consulting (ES&C) is a woman-owned, certified HUBZone small business specializing in aquatic systems. We provide consulting services, laboratory testing, and field sampling to a wide spectrum of clients throughout the nation. From project design and implementation to the final report, ES&C is proud of its expertise and dedication to delivering a scientifically sound and defensible product to each and every client. ES&C has built a reputation for providing the highest quality services at competitive rates.

2. PERSONNEL

Following are the key personnel who will be assigned to this project. Resumes and associated certifications for key personnel are located in Appendix A of this document.

2.1. Katherine S. Lynde

Katherine Lynde is the sole member and manager of Environmental Services & Consulting LLC. She acquired sole-ownership in the company on January 1, 2005 as her management responsibilities grew.

2.2. Stuart R. Lynde

Stuart R. Lynde is a Principle Scientist at ES&C. He received his Bachelors degree from Lynchburg College in 1991 and went on to earn a Masters degree from Virginia Tech in 1994. His Masters degree focused on the effects of thermal discharges on leaf breakdown and macroinvertebrate communities as well as the development of a novel flow-through test for juvenile Asian clams (*Corbicula* sp.). He pursued his Doctoral degree until he formed ES&C in 1999. Mr. Lynde's doctoral research focused on the effects of cationic surfactants used as bio-fouling control agents on non-target organisms after the compounds were detoxified. While continuing to work on his degree, Mr. Lynde worked full-time for a Blacksburg consulting firm where he was a senior scientist managing the company's largest project in the coal fields of Virginia. Mr. Lynde is a Certified Virginia Nutrient Management planner and a Virginia Erosion Sediment and Control Combined Administrator.

2.3. Nicole L. Martin

Nicole is the lab manager. She received a BS in Wildlife and Biology from Virginia Tech. Ms. Martin is responsible for overseeing all sample sorting staff as well as all QA/QC procedures and database maintenance. Nicole has been with ES&C for over six years. During that time, she has improved the company's system for tracking and processing samples, has updated all the company's standard operating procedures, is integral in the on-going process of database management, and has become the company's most proficient sample sorter.

2.4. Gerald T. Shepard

Mr. Shepard is the lead taxonomist heading ES&C's benthic studies team. Jerry brings to ES&C over 9 years of scholastic and professional experience working with aquatic invertebrate taxonomy, biomonitoring principles, and stream studies. He earned a BS in Ecology and Aquatic Biology from the University of Wisconsin-Superior, and went on to earn a MS in Water Resources Science and Aquatic Ecology from the University of Wisconsin-Stevens Point. His graduate thesis project involved comparing new variations of the Hilsenhoff Biotic Index, utilizing species level taxonomy with samples collected monthly for a full year from riffle and snag habitats in Northern WI trout streams. Prior to joining ES&C, Jerry was a key taxonomist with the Great Lakes Environmental Center in Traverse City MI, working on the EPA Wadeable Streams Assessment project. Under this position, he participated in the identification of over 250 macroinvertebrate samples that had been collected from throughout the eastern half of the U.S. Jerry specifically worked with samples from Florida, Alabama, Louisiana, Georgia, Virginia, West Virginia, North Carolina, Pennsylvania, New England and New York.

Mr. Shepard has current NABS Level II (Genus) certifications for Chironomidae larva and EPT taxa.

2.5. Asa J. Spiller

Asa Spiller is a staff scientist, who will serve as a secondary taxonomist, and QC taxonomist. Mr. Spiller is expected to earn his B.S. in Environmental Science from Virginia Tech in May of 2008. While a student, Mr. Spiller took a keen interest in aquatic macroinvertebrate systematics. Since joining ES&C in May 2007, Mr. Spiller has become a proficient taxonomist with a high QC rating. Outside of ES&C, he extends his

expertise in macroinvertebrate taxonomy by volunteering as a program assistant with the Save Our Streams organization at Virginia Tech.

3. FACILITY DESCRIPTION

ES&C maintains approximately 1300 sq ft of space used primarily for processing benthic samples. We maintain a benthic sample storage room which consists of fire proof construction, explosion proof fixtures and a continuous ventilation system that changes over the air in the facility over 6 times per hour. The room currently has capacity to store over 400 1-gallon samples preserved in alcohol. To our knowledge, we are one of few benthic laboratories in the country that goes to these appropriate lengths for sample storage.

We maintain 10 workstations used solely for sorting samples under a variety of methodologies. Each station has access to at least 10-x magnifications for use in helping to sort macroinvertebrates from debris.

We maintain up to 3 workstations where sample identification takes place with the latest keys. Scopes include dissecting scopes with magnification of up to 80-x, compound microscopes with magnification up to 1000-x and phase contrast microscopy with magnification up to 1000-x.

3.1. Benthic Capacity

For its clients, ES&C routinely provides taxonomic expertise in support of biological assessments. ES&C processes between 50-250 benthic and periphyton samples monthly. We have provided these services to a wide range of public/tribal sector clients, including the U.S. Fish and Wildlife Service (Western Region), the Virginia Department of Mines Minerals and Energy, Virginia Department of Environmental Quality, West Virginia Department of Environmental Protection, the Shawnee Nation, and the County of Amherst, Virginia. Our private sector clients include consulting/engineering firms, industrial facilities, mining operations, citizen monitoring groups, and individuals.

ES&C personnel have collectively processed thousands of benthic samples from a wide array of habitat types. These include both lentic and lotic systems; natural, damaged, and constructed systems. ES&C employees are actively pursuing additional certifications through NABS. Most ES&C personnel working in the benthics program

have, at a minimum, undergraduate degrees and most taxonomists have either advanced benthic training, or advanced graduate degrees.

3.2. Equipment Availability

Environmental Services & Consulting maintains a full compliment of biomonitoring supplies, allowing the company to conduct biomonitoring operations whenever necessary. In addition to basic biomonitoring field and lab supplies, ES&C's equipment includes, but is not limited to, the following:

- An explosion-proof ventilated room for storage of preservative filled samples
- Dissecting scopes
- Two compound scopes
- Two composite samplers
- Global positioning units
- Various lab and field meters, including DO, pH, Conductivity
- Extensive library of taxonomic identification keys (a list will be made available upon request)
- 2 Drying ovens
- Muffle Furnace
- Various nets and sieves

4. REPRESENTATIVE PROJECTS

ES&C has provided a wide range of environmental consulting services for federal and state agencies, municipalities, and educational institutions since its formation in 1999. Some representative projects, and associated contact information / references are below.

4.1. Amherst County Landfill

The Closed Amherst County Landfill was leaking leachate into surrounding streams. The leachate was significantly impairing the aquatic life in the receiving system, and the county was failing to meet permit limits for whole effluent toxicity. ES&C was selected to complete the TIE/TRE where the previous consultant failed. ES&C verified the mode of toxicity, and developed a cost effective, phased passive treatment option to eliminate toxicity. A passive system was required because of the rural location and lack of power to the site. The treatment options designed included the use of wetland cells to polish the final effluent.

As part of this project, ES&C collects macroinvertebrate samples from 9 stations in streams located on the landfill property, and an additional reference station nearby each spring and fall. Samples are preserved in the field and taken back to ES&C's laboratory where they are washed, sorted according to EPA's RPBIII protocols, and identified to the genus level. A report is generated with Virginia Stream Condition Index and EPA RBPIII metrics in order to assess the condition of the streams on site. Since the implementation of ES&C's design, the county has not seen any toxicity in their effluent and the receiving system is recovering. Contact: Information: Teresa Nuckols (434) 846-3324

4.2. Montgomery County, MD

The Montgomery County Maryland Department of Environmental Quality collects benthic macroinvertebrate samples from local streams and rivers annually as part of their water quality assessment program. These samples are preserved in the field, and a minimum of 100 organisms are sub sampled for identification. ES&C has been contracted to identify the 2006 samples to the lowest practical taxon (typically genus level), with chironomidae (midge flies) and oligochaeta (segmented worms) separated and identified to the subfamily or tribe level. Additionally ES&C is handling data entry and the addition of specimens not currently in the Montgomery County reference collection. We are in the first extension of what started as a one year contract with two optional extensions. Contact Information: Mr. Eric Naibert. (240) 777-776

4.3. Martin County Coal

On October 11, 2000, a release of 250 million gallons of coal slurry into Coldwater and Wolf Creeks in Martin County, Kentucky devastated about 100 miles of streams and rivers. Potesta & Associates is one of the engineering firms conducting risk evaluation and clean-up of the system. ES&C was contracted to provide the taxonomic expertise necessary to make the critical evaluations on recovery. Responsibilities include sorting the invertebrates from the collected debris (via 200 organism sub-sample, or 100% sorts depending on sample type), identification of organisms to the genus level, produce and maintain a reference collection, and provide insight into multiple other issues associated with this project. Contact Information: Jessica Yeager: (304) 342-1400

4.4. KCI Technologies

Beginning in 2005, KCI Technologies contracted ES&C to provide macroinvertebrate identification services for several ongoing projects. Samples collected by KCI in the spring are shipped to ES&C for processing. Samples are sorted via Maryland protocols, and identified to the genus level. Chironomidae larva and Oligocheata are slide mounted and identified to the Genus level (family for Oligs). Lastly, a full report is prepared documenting which taxa are present, and number of each taxa, and samples are shipped back to KCI with the report. Contact Info: Mike Pieper: (410) 316-7800

5. NARRATIVE STATEMENT

ES&C is dedicated to completing projects in a timely manner and with a high level of quality. ES&C maintains a dedicated staff that will be able to begin processing samples immediately. Upon receipt of the samples, ES&C will verify the shipment via chain of custody, and log the samples into our Laboratory Information Management System (LIMS). Samples will be given a unique internal tracking number that will be used for tracking samples throughout processing. The samples will then be sorted and identified using the requested protocols. Ten percent of all samples will be checked (both during processing and during identification) to maintain a high level of quality assurance. ES&C will provide copies of our internal QC procedures and methods upon request.

6. CORPORATE PROFILE

ES&C is a limited liability company, formed in the Commonwealth of Virginia in 1999, providing environmental consulting services to clients in Virginia and across the country. The company is an outgrowth from academia and is conveniently located near the campus of Virginia Tech in Blacksburg, Virginia. Once a single-person operation, ES&C has grown to over 24 full and part-time employees.

Since its inception, it has grown to become one of the nation's leading benthic laboratories, processing thousands of samples for Federal, State, Municipal, Industrial and commercial clients. ES&C employees have worked on benthic samples from Coast to Coast.

6.1. Company Information

ES&C is registered through the Central Contractors Registration (CCR) website. Additionally, Representations and Certifications are updated electronically and can be accessed through the ORCA website. The information provided below is provided for convenience only.

DUNS:	039267138
CAGE/NCAGE Code:	3GCW8
Legal Business Name:	ENVIRONMENTAL SERVICES & CONSULTING LLC
TIN/EIN:	54-1963737
Company URL:	http://www.es-and-c.com
Phone:	540-552-0144
Fax:	540-552-1528
Toll Free Phone:	888-995-2782
Mailing Address::	ENVIRONMENTAL SERVICES & CONSULTING LLC 101 PROFESSIONAL PARK DR SE, STE 303 BLACKSBURG, VA 24060-6666
Business Start Date:	11/17/1999
HUBZone Certified:	YES
Woman-Owned:	YES
Accept Credit Cards:	YES
Member/Manager:	Katherine S. Lynde

7. SUBCONTRACTORS

If awarded a contract, ES&C will be the primary vendor performing work under the terms and conditions of the contract and will be solely responsible for the satisfactory completion of the work. ES&C will make sure any subcontractors have all the necessary permits, certifications, experience and insurance to perform the work. All Subcontractors will be approved in writing by DWWM before subcontractor initiates work.

ES&C has chosen to subcontract the Great Lakes Environmental Center (GLEC) of Traverse City, Michigan, to provide additional expertise for the identification and QC portions of this contract. GLEC's benthic coordinator, Mr. Don McNew, has over 25 years experience in aquatic macroinvertebrate studies, and more recently was a key taxonomist coordinating the EPA Eastern Wadeable Stream's project. A copy of Mr. McNew's resume and certifications are attached at the end of this document.

Appendix A – Key personnel resumes

STUART R. LYNDE

Senior Project Manager



PROJECT ASSIGNMENT

Project Management

EDUCATION

Ph.D. candidate in Biology, Virginia Tech, Blacksburg, Virginia. 1994 to 1999.

M.S. in Zoology (Aquatic Ecotoxicology), Virginia Tech, Blacksburg, Virginia. 1994.

Thesis title: Techniques for Evaluating Power Plant Discharges Using In-situ Leaf Breakdown and Flow-through Sediment Bioassays.

B.S. in Biological Science, Lynchburg College, Lynchburg VA, 1991

CERTIFICATIONS

Virginia Certified Nutrient Management Planner, #486, Expires October, 2008

Virginia Erosion and Sediment Control Combined Administrator, #519, Expires November, 2008

38 Hour Army Corps of Engineers Wetland Delineation & Management Training Program, #4312, September, 2006

Applied Fluvial Geomorphology, Level I, October, 2004

40-h HAZWOPER training, Expires April, 2005

RELATED EXPERIENCE

Mr. Lynde has conducted research for clients on a variety of environmental issues. These include the development of passive wetland systems for the treatment of landfill leachate, evaluating the effects of wetland systems used for treating acid mine drainage, agricultural best management practices (BMPs), road construction, white phosphorous contamination, acid mine drainage, and a variety of industrial effluents on stream communities. He has extensive background in both sediment and aqueous phase toxicity testing using novel as well as EPA approved protocols. Some non-standard test approaches include various life stages (juvenile and glochidia) of native mussel species. His background in environmental toxicology led to the development of sediment and aqueous phase toxicity tests for juvenile Asian clams. He managed a watershed-scale ecological risk assessment resulting from an accidental discharge of coal-slurry into waters upstream of endangered species critical habitat, incorporating field biological and chemical monitoring; aqueous and sediment phase toxicity testing; endangered species surrogate studies and product testing.

Mr. Lynde has completed and overseen numerous stream and wetland delineations resulting in jurisdictional determinations, and successfully acquired numerous permits from the Corps of Engineers and state regulatory agencies on behalf of his clients. Additionally, Mr. Lynde has designed and implemented mitigation projects for both new permits and as corrective actions for non-permitted activities.

Mr. Lynde has provided expert testimony in cases concerning impacts to aquatic systems and is on the faculty of Radford University.

PROFESSIONAL AFFILIATIONS

American Society for Testing and Materials
Montgomery County Chamber of Commerce
New River Valley Homebuilders Association
North American Benthological Society
Roanoke Regional Homebuilders Association
Society for Environmental Toxicology and Chemistry
Virginia Academy of Science
Virginia Association of Wetland Professionals
Virginia Homebuilders Association
Virginia Mining Association
Water Environment Federation

NICOLE L. MARTIN

Lab Manager/ Data Entry Specialist



PROJECT ASSIGNMENT

Laboratory Management

EDUCATION

B.S. in Wildlife Science and Biology, Virginia Tech, Blacksburg, Virginia. 1999.

RELATED EXPERIENCE

Nicole Martin is the Lab Manager for ES&C, and is responsible for overseeing all sample sorting staff as well as all QA/QC procedures and database maintenance. She has worked for ES&C for four years, during which she has improved the company's system for tracking and processing samples, has updated all the company's standard operating procedures, is integral in the on-going process of database management, and has become the company's most proficient sample sorter. She received her bachelor's degrees in both wildlife sciences and biology from Virginia Polytechnical Institute in 1999. Nicole has focused her career on both local ecosystems as well as local and exotic species. She has experience in field identification of many local species of flora and fauna. She has also provided species identification services to the public for native birds, reptiles and mammals in all life stages. Nicole Martin is also familiar with modern and traditional wildlife management practices. She has participated in an ongoing study of white-footed mouse distribution through various habitat types and a salamander species distribution study using capture and release methods. She has worked with the red wolf release program and many endangered species protection programs. Nicole Martin has studied many wildlife issues and has presented these issues to the public through both personal presentation and television appearances.

PROFESSIONAL AFFILIATIONS

American Society for Testing and Materials

North American Benthological Society

Roanoke Regional Homebuilders Association

Virginia Academy of Science

Virginia Association of Wetland Professionals

Virginia Mining Association

Water Environment Federation



GERALD T. SHEPARD

Senior Scientist



PROJECT ASSIGNMENT

Aquatic Entomologist / Head Taxonomist

Erosion and Sediment Inspector

EDUCATION

M.S. in Water Resources and Ecology, University of Wisconsin – Stevens Point. 2002

B.S. in Ecology and Aquatic Biology. University of Wisconsin – Superior. 1997

CERTIFICATIONS

NABS Invertebrate Taxonomy Level II – Chironomidae – February 2006.

NABS Invertebrate Taxonomy Level II – EPT Taxa – June 2007

Virginia Dept. of Conservation Erosion and Sediment Control Inspector – March 2006

PUBLICATIONS

G. T. Shepard and S. W. Szczytko. 2001. Comparison between Riffle and Snag Habitats in a Central Wisconsin Trout Stream Using Modified Biotic Indices. Poster Abstract, Bulletin of the North American Benthological Society, 18(1).

G.T. Shepard. 2002. Establishment of a True Biotic Index and Comparison between Riffle and Snag Habitats in Bearskin Creek, Oneida County Wisconsin, Using a Modified Biotic Index. M.S. Thesis. University of Wisconsin, Stevens Point.

G.T. Shepard, S.R. Lynde, and N.L. Martin. 2007. Does Failure in Sorting Really Affect the Data? Poster Abstract. Bulletin of the North American Benthological Society. 24 (1)

RELATED EXPERIENCE

Jerry brings to ES&C over 9 years of scholastic and professional experience working with aquatic invertebrate taxonomy, biomonitoring principles, and stream studies. He earned a BS in Ecology and Aquatic Biology from the University of Wisconsin-Superior, and went on to earn a MS in Water Resources Ecology from the University of Wisconsin-Stevens Point. His graduate project involved comparing new variations of the Hilsenhoff Biotic Index, utilizing species level taxonomy with samples from riffle and snag habitats, collected monthly over the course of a year. He presented some of his preliminary results at the NABS



2001 meeting in Lacrosse, WI. During his studies Jerry also assisted undergraduate students by leading field trips and holding study sessions for the aquatic entomology course. He also worked in the Wisconsin Aquatic Entomology Laboratory sorting and identifying invertebrate samples for the Wisconsin Department of Natural Resources. Prior to joining ES&C Jerry was a key taxonomist with the Great Lakes Environmental Center in Traverse City Michigan, working on the EPA's Wadeable Streams Assessment project. Under this position, he helped to train sorting personnel and participated in the genus level identification of over 250 macroinvertebrate samples collected from throughout the eastern half of the U.S. including Florida, Alabama, Louisiana, Georgia, Virginia, West Virginia, North Carolina, Pennsylvania, New Jersey, and New York. Currently Jerry serves as ES&C's top invertebrate taxonomist and lab manager, with duties that include identification of samples, management of the company reference library, oversight of laboratory operations including sorting personnel and other taxonomists, oversight of benthic field operations, and researching threatened or endangered species habitat and locality info for development permitting applications. Jerry also serves as an erosion and sediment inspector, monitoring construction sites to ensure compliance with state sediment control minimum standards.

PROFESSIONAL AFFILIATIONS

American Society for Testing and Materials

North American Benthological Society

Roanoke Regional Homebuilders Association

Virginia Academy of Science

Virginia Association of Wetland Professionals

Virginia Mining Association

Water Environment Federation

Wisconsin Cooperative Fisheries Research Unit

TAXONOMIC Certification

This certificate is awarded to

GERALD T. SHEPARD

*in recognition of the successful completion for
Level 2 Group 3 Eastern Chironomidae*

NORTH AMERICAN BENTHOLOGICAL SOCIETY


Dr. Trevor Reynolds

Feb 1st 2006
Date

TAXONOMIC CERTIFICATION

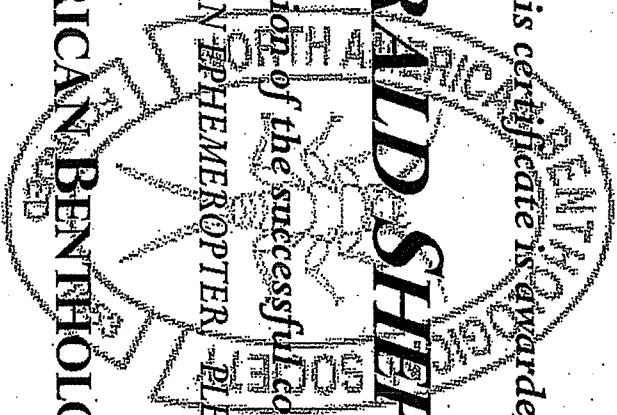
This certificate is awarded to

GERARD SHEPARD

in recognition of the successful completion for

LEVEL 2 GROUP 2 EASTERN PHEMEROPTERA, PLECOPTERA and TRICHOPTERA

NORTH AMERICAN ENTOMOLOGICAL SOCIETY



[Signature]
Dr. Trefor Reynolds

June 1, 2007
Date

ASA SPILLER

Staff Scientist/Taxonomist

PROJECT ASSIGNMENT

Taxonomist

EDUCATION

B.S. in Environmental Science from Virginia Tech, Blacksburg, Virginia. 2008.

CERTIFICATIONS

Save our Streams Volunteer Biomonitoring

RELATED EXPERIENCE

Asa Spiller is a staff scientist at Environmental Services & Consulting. Asa brings 5 years of scholastic experience with work in aquatic and terrestrial biology with a focus on freshwater ecology and aquatic entomology. Asa's primary duties include taxonomic classification (to genus level), secondary quality control identification of aquatic invertebrates as well as field coordination and project management. His fieldwork experience includes aquatic macroinvertebrate sampling, stream surveying, stream rating using Virginia's Unified Stream Methodology, GPS surveys using a Trimble unit, as well as testing and monitoring of chemical and physical characteristics of both lakes and streams.

PROFESSIONAL AFFILIATIONS

Soil and Water Conservation Society

American Society for Testing and Materials

North American Benthological Society

Roanoke Regional Homebuilders Association

Virginia Academy of Science

Virginia Association of Wetland Professionals

Virginia Mining Association

Water Environment Federation



DONALD L. McNEW

Research Scientist
Great Lakes Environmental Center

Education

B.S. University of Michigan School of Natural Resources, 1974.

Qualifications

Mr. McNew has over 25 years experience in the field of environmental science. Technical experience includes employment as a laboratory and a field technician relating to water resources, as well as project management experience. While employed as a park naturalist for many years, he gained considerable knowledge of the biology and taxonomy of the Great Lakes region's fauna and flora. He is especially skilled in the identification and ecology and of plants, birds, wildlife, and benthic macroinvertebrates. This has enabled him to function as a key staff person in conducting ecological inventories and environmental assessments as well as to serve as GLEC's benthic coordinator.

Relevant Experience

Benthic Taxonomy. For the past 14 years at Great Lakes Environmental Center, Mr. McNew has supervised the analysis of over 4000 benthic samples from rivers and lakes as part of various water quality projects. Clients include the U.S. Environmental Protection Agency, the U.S. Department of Defense, Indian tribes, and various industrial clients. Mr. McNew is skilled in the identification and ecology of benthic macroinvertebrates and is certified under the taxonomic certification program sponsored by the North American Benthological Society (NABS). In addition, he is responsible for coordinating all aspects of processing benthic samples at Great Lakes Environmental Center including sorting, data management, and quality control. In 2004-2006, he supervised the laboratory analysis of over 300 samples from EPA's *Wadeable Streams Assessment (WSA)* Program.

Mercury Sampling. In 2001 and 2002, for the State of Michigan, Mr. McNew trained and coordinated sampling crews from GLEC and two subcontractors to sample for low level mercury in lakes and streams across the entire state. Samples were collected using "clean" sampling techniques. Lake samples were collected from the surface and from near the bottom using a peristaltic pump. Samples were also collected to measure various other water quality parameters. Mr. McNew wrote an extensive report, which compiled the results and summarized findings.

Monitoring of Drinking Water. In 2000-2004 and again in 2007, Mr. McNew played several roles in GLEC's support of EPA's *Unregulated Contaminant Monitoring Regulation (UCMR)* Program. He assisted with the design of the several different sample collections kits that were distributed to small public water systems (PWS) across the county and wrote the sampling instructions for all of the kits used in the program. In addition, he wrote the scripts and coordinated the production of two instructional videos that were distributed to PWS's. For *Aeromonas* sampling, he procured and tested the instruments contained in a Water Quality Measurement kit, which was used by PWS

Donald L. McNew, Page 2

sampling personnel to measure pH, chlorine, and temperature. Mr. McNew also involved in contacting PWS's to assist them in complying with the UCMR rule.

Pesticide Monitoring. In 2003, Mr. New played a key role as GLEC provided support for USDA's *Science and Technology Pesticide Data Program*. As part of a program that monitored for the presence of Triazole pesticides in 5 food commodities, he supervised the design and testing of kits for the shipping of small quantities of bananas, grapes, peanut butter, milk, and eggs. The kits were specifically designed for each food item to insure they would arrive at the testing laboratories in suitable condition. Mr. McNew also wrote instructions for each kit describing how the food items were to be packed and worked closely with the county agents in California who collected, packed, and shipped the commodities. Following a sampling schedule established by USDA, he supervised the distribution the kits and the issuance of e-mail reminders to the counties prior to each scheduled sampling event.

Environmental Assessments. At Great Lakes Environmental Center, Mr. McNew has conducted field studies and literature searches while preparing numerous environmental assessments. He has been the principal author of several assessments regarding communications towers and their impacts on migrating birds. Mr. McNew has also assisted in the preparation of environmental assessments relating to the relicensing of hydroelectric facilities by providing expertise on impacts to wildlife and threatened and endangered species.

Ecological Surveys. Mr. McNew has participated in a number of ecological surveys in which he has observed and cataloged birds, mammals, reptiles, amphibians, and plants. At Great Lakes Environmental Center, projects include surveying waterfowl and breeding birds at hydroelectric reservoirs in Wisconsin and Michigan and conducting ecological inventories for land conservancies in Michigan. Mr. McNew also participated in ecological surveys while employed at Sleeping Bear Dunes National Lakeshore, Empire, Michigan. He recorded observations of significant species and updated the Lakeshore's official bird checklist.

Resource Management Plans. For a northern Michigan land conservancy, Mr. McNew co-authored management plans for several conservancy properties. Following detailed ecological inventories, the plans were developed to balance the conservancy's goals regarding use by the public and the preservation of significant resources.

Aquatic Toxicology. At Great Lakes Environmental Center, Mr. McNew has been involved in a variety of laboratory and field-based water quality tasks. He has cultured test organisms, conducted aquatic toxicity tests with those organisms, and performed effluent manipulations for industrial and municipal toxicity identification evaluations (TIEs). He has also been a key member of field teams, sampling a variety of chemical, physical, and biological parameters.

Natural History Interpretation. While with the National Park Service at Sleeping Bear Dunes National Lakeshore, Mr. McNew researched and presented programs to the public which interpreted the biological, geological, and historical resources of the park.

TAXONOMIC CERTIFICATION

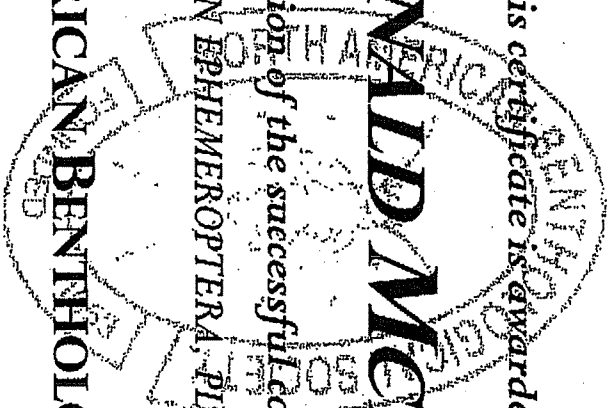
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NORTH AMERICAN BENTHOLOGICAL SOCIETY




Dr. Pastor Reynolds

June 1, 2007
Date

TAXONOMIC CERTIFICATION

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LEVEL 2 GROUP 3 EASTERN CHIRONOMIDAE

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Dr. Trefor Reynolds

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Date