



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

# Request for Quotation

RFQ NUMBER  
**DEP13876**

PAGE  
**1**

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

**VENDOR**  
 \*911102856 902-425-8989  
 BIO LIMNO RESEARCH & CONSULTIN  
 28 STONE GATE DRIVE  
 HALIFAX NOVA SCOTIA CANADA  
 B3N 3J2

**SHIP TO**  
 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
07/31/2008				

BID OPENING DATE: **08/28/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		493-09		
				<b>RECEIVED</b> 2008 AUG 27 A 9:28 PURCHASING DIVISION STATE OF WV		
				<b>OPEN END CONTRACT</b>		
<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING BIDS TO PROVIDE FOR THE PROCESSING AND IDENTIFICATION OF PERIPHYTON SAMPLES FOR THE DIVISION OF WATER AND WASTE MANAGEMENT, WATERSHED ASSESSMENT BRANCH, PER THE ATTACHED SPECIFICATIONS, TERMS, CONDITIONS AND BID REQUIREMENTS.</p> <p>PLEASE NOTE THERE ARE MANDATORY BID SUBMISSION REQUIREMENTS LISTED UNDER "QUALIFICATIONS" IN THE ATTACHED SPECIFICATIONS. THE QUALIFICATION CRITERIA LISTED IS MANDATORY AND MUST ACCOMPANY THE BID SUBMITTAL IN ORDER FOR THE BID TO BE CONSIDERED FOR AWARD. FAILURE TO INCLUDE THIS INFORMATION WILL RESULT IN DISQUALIFICATION OF THE VENDOR'S BID.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON THE 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</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE (902) 425-8989	DATE August 25, 2008
TITLE President	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED '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.
15. **West Virginia Alcohol & Drug-Free Workplace Act:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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



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**HALIFAX NOVA SCOTIA CANADA**  
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**DEPARTMENT OF**  
**OFFICE OF WATER RESOURCES**  
**601 57TH STREET SE**  
**CHARLESTON, WV**  
**25304**      **304-926-0499**

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<p><b>WRITTEN NOTICE.</b></p> <p><b>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.</b></p> <p><b>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, 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.</b></p> <p><b>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</b></p> <p><b>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.)</b></p> <p><b>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.</b></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>MDDH</i>	TELEPHONE <i>(902) 425-8989</i>	DATE <i>August 25, 2008</i>
TITLE <i>President</i>	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</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 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>EXHIBIT 10</p> <p style="text-align: right;">REQUISITION NO.: .....</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p>						

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	NO. 1 .....					
	NO. 2 .....					
	NO. 3 .....					
	NO. 4 .....					
	NO. 5 .....					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</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</p>						

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<p>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 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 &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <b>CBDA</b>	TELEPHONE <b>(904) 425-8989</b>	DATE <b>August 25, 2008</b>
TITLE <b>President</b>	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>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 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: <i>Bio-limno Research and Consulting, Inc</i></p> <p>DATE: <i>August 25, 2008</i></p> <p>SIGNED: <i>[Signature]</i></p>						

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<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 MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>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.: DEP13876</p> <p>BID OPENING DATE: 08/28/2008</p> <p>BID OPENING TIME: 1:30 PM</p>						

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SIGNATURE *MBD of* TELEPHONE *(902) 425-8989* DATE *August 25, 2008*

TITLE *President* FEIN ADDRESS CHANGES TO BE NOTED ABOVE

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<p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:  <b>(902) 425-8989</b></p> <hr/> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):  <b>MICHAEL AGBETI</b></p> <hr/> <p>***** THIS IS THE END OF RFQ DEP13876 ***** TOTAL: _____</p>						

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SIGNATURE <b>MDAP</b>	TELEPHONE <b>(902) 425-8989</b>	DATE <b>August 25, 2008</b>
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STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code* §5A-3-10a provides that: 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.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

*West Virginia Code* §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**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](http://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 is in compliance with the requirements as stated.

Vendor's Name: MICHAEL AGBETI

Authorized Signature:  Date: August 25, 2008

## CURRICULUM VITAE

Name: **AGBETI**, Michael Domingo

Citizenship: Canadian

Mailing Address: Bio-Limno Research & Consulting  
28 Stone Gate Drive  
Halifax, NS, B3N 3J2. Canada.

Telephone: (902) 425-8989; Fax: (902) 425-8989

E-mail: [magbeti@bio-limno.com](mailto:magbeti@bio-limno.com)

Website: [www.bio-limno.com](http://www.bio-limno.com)

### Formal Education

#### University

Sept. 1988 - Oct. 1993: Doctor of Philosophy (Limnology, Freshwater Biology).

Dept. of Biology, Queen's University, Kingston, Ontario, Canada

Thesis title: Comparison of phytoplankton succession in two lakes of different mixing regimes.

Supervisors: Drs. John P. Smol and John C. Kingston (co-supervisor).

Sept. 1985 - Oct. 1987: Masters of Science (MSc. Biological Sciences)

Department of Biological Sciences, Brock University, St. Catharines, Ontario, Canada.

Thesis title: The use of diatom assemblages to determine paleotrophic changes in lakes.

Oct. 1977 - July. 1980: Bachelor of Science (B.Sc. Honours Botany)

Department of Botany, University of Ghana, Legon, Ghana.

Thesis title: An experimental study of the vertical migration rhythm of epipelagic algae in two ponds in Ghana.

#### Secondary School

Sept. 1968 - June 1973: General Certificate of Education (GCE) Ordinary Level.

Anlo Secondary School, Anloga, Ghana

Sept. 1974 - Aug. 1977: G.C.E. Advanced Level. Bishop Herman College, Kpando, Ghana.

## **Professional Experience**

June 1995-Present

Principal owner of **Bio-Limno Research & Consulting**, an environmental consulting firm that provides a variety of services in water quality assessment: analysis (identification and enumeration) of algae and invertebrates; bio-monitoring of lakes, rivers and streams; writing of scientific reports on water quality data.

September 6 - 16, 1999

Participated in the 12<sup>th</sup> International Association of Phytoplankton Taxonomy and Ecology Workshop. Central theme: taxonomy and ecology of Cyanoprokaryotes and Chlorophytes across lake trophic status (Winnipeg, Manitoba, Canada)

July 1993 - May 1995

Post doctoral fellow (Department of Biological Sciences, University of Alberta): The use of hypolimnetic oxygenation and lime and alum additions for enhancing water quality of lakes and dugouts.

August 19 - 27, 1989

Participated in a workshop on the taxonomy and ecology of blue-green algae and green algae (Chlorococcales), held at The University of Manitoba Field Station (Delta Marsh), Winnipeg. Workshop directed and guided by Jirí Komárek, Czechoslovakia Academy of Sciences, an expert on cyanophyte taxonomy and ecology. Organised and sponsored jointly by Freshwater Institute and The University of Manitoba Field Station.

January 1988 - August 1988

Department of Biology, University of Ottawa. Investigating seasonal variations in populations of algae (including picocyanobacteria) in lakes of differing trophic status using epifluorescence microscopy, and temperature dependence of production of hydrogen peroxide in lakes, using photofluorometer.

## **Research Interests**

General limnology, aquatic ecology, phytoplankton ecology and taxonomy, primary production, eutrophication, lake restoration, paleolimnology and paleoecology.

## **Taxonomic Skills**

Analysis (identification and enumeration) of algae (phytoplankton and periphyton), zooplankton, macrobenthos and macrophytes

### Other Skills

Microscopy, statistics (particularly multivariate analysis) and computing (word processing, spreadsheets and graphic packages).

### Refereed Journal Publications

1. Blais, J. M., Duff, K. E., Schindler, D. W., Smol, J. P., Leavitt, P. R. & **M. D. Agbeti**. 2000. Recent eutrophication histories of Lac Ste. Anne and Lake Isle, Alberta, Canada, using paleolimnological methods. *Lake and Reserv. Manage.* 16(4): 292-304.
2. McNaught, A.S., D.W. Schindler, A.J. Paul, R.S. Anderson, D.B. Donald, B.R. Parker & **M. D. Agbeti**. 1999. Restoration of the food web of an alpine lake following fish stocking. *Limnol. Oceanogr.* 44: 127-136.
3. **Agbeti, M.D.**, Kingston, J.C., Smol, J.P. & Watters, C. 1997. Comparison of phytoplankton succession in two lakes of different mixing regimes. *Arch. Hydrobiol.* 140: 37-69.
4. **Agbeti, M.D.** & Smol, J.P. 1995. Dynamics of Chrysophyceae and Synurophyceae and their encystment in two Canadian lakes. *J. Phycol.* 31: 70-78.
5. **Agbeti, M.D.** & Smol, J.P. 1995. Winter limnology: A comparison of physical, chemical and biological characteristics in two temperate lakes during ice-cover. *Hydrobiologia* 304: 221-234.
6. **Agbeti, M.D.** 1992. The relationship between diatom assemblages and trophic variables: A comparison of old and new approaches. *Can. J. Fish. Aquat. Sci.* 49: 1171-1175.
7. Pick, F.R. & **Agbeti, M.** 1991. Seasonal dynamics of picocyanobacteria in temperate lakes. *Int. Rev. ges. Hydrobiol.* 76: 565-580.
8. **Agbeti, M.D.** & Dickman, M. 1989. Use diatom fossil assemblages to determine historical changes in trophic status. *Can. J. Fish. Aquat. Sci.* 46: 1013-1021.

### Reports

1. Agbeti, M.D. 1998. Water quality of two "end pit" lakes in relation to fishery sustainability. 80 pp. Prepared for Luscar Ltd. - Coal Valley Mine.
2. Agbeti, M.D. 1999. Water quality of tributaries of Rice and Paddy Creek (Cynthia, Alberta) in 1998, 1999 & 2000 (ongoing). Prepared for Westworth Associates, Edmonton, Alberta.

3. Agbeti, M.D. 2000. Ammonia removal by algae in a gold-mine tailings lake water – a laboratory experiment. Done for Gartner Lee Ltd., Markham, Ontario.
4. Agbeti, M.D. 2002. An evaluation of long-term phytoplankton and zooplankton communities of Wabamun Lake. Prepared for Alberta Environmental Protection, Alberta.

### Conferences

2001

November 7-9: Agbeti, M.D., M. Janowicz & B. Tonn. Cyanobacteria composition in biomanipulated northern Alberta (Canada) ponds. Presented at the North American Lake Management Society (NALMS), Madison, Wisconsin, USA

1999

January 8-10: **Agbeti, M.D.** & Prepas, E.E. The effects of pH on the growth of cyanobacteria in a tropical flood-plain lake. Presented at the Society of Canadian Limnologists (SCL), Edmonton, Alberta, Canada.

1998

November 10-13, 1998: **Agbeti, M.D.** & Ellie E. Prepas. The effects of pH treatment on the biomass of cyanobacteria in a flood plain lake. Presented at the North American Lake Management Society (NALMS), Banff, Alberta, Canada.

November 10-13, 1998: David W. Schindler, B.R. Parker, A. Scott McNaught, D.B. Donald, R.S. Anderson, A.J. Paul & **M. Agbeti**. Restoration of the food web of an alpine lake following fish stocking. Presented at the North American Lake Management Society (NALMS), Banff, Alberta, Canada.

January 2-4: **Agbeti, M.D.** & Prepas, E.E. The effects of pH on the growth of cyanobacteria in a tropical flood-plain lake. Presented at the Society of Canadian Limnologists (SCL), Kingston, Ontario, Canada.

1996

November 13-16: **Agbeti, M.D.** & Prepas, E.E. The effects of pH on the growth of cyanobacteria in a flood-plain lake. Presented at the North American Lake Management Society (NALMS), Minneapolis/St. Paul, MN, USA.

January 4-6: **Agbeti, M.D.** & Prepas, E.E. A survey of the phytoplankton and nutrient status of selected lakes and reservoirs in southern Alberta, Canada. Presented at the Society of Canadian Limnologists (SCL), Montreal, Canada.

1995

November 6-11: **Agbeti, M.D.** & Prepas, E. E. A survey of the phytoplankton and nutrient status of selected lakes and reservoirs in southern Alberta, Canada. Presented at North American Lake Management Society (NALMS), Toronto, Ontario, Canada.

1994

October 31 - November 5: **Agbeti, M.D.** & Prepas, E.E. The effect of long-term hypolimnetic oxygen injection on phytoplankton community in a naturally eutrophic Canadian lake. Presented at North American Lake Management Society (NALMS), Orlando Florida, US.

January 4-5: **Agbeti, M.D.** & Prepas, E.E. The impact of long-term hypolimnetic oxygen injection on phytoplankton community in a naturally eutrophic lake. Presented at the Society of Canadian Limnologists (SCL), Saskatoon, Canada.

1993

May 30 - June 3: **Agbeti, M.D.**, Smol, J.P. & Kingston, J.C. Chrysophyte population dynamics and encystment in two Canadian lakes. Presented at American Society of Limnology and Oceanography (ASLO), Edmonton, Alberta, Canada.

Jan. 3 - 4: **Agbeti, M.D.**, Smol, J.P., Kingston, J.C. & Watters, C. The role of autogenic factors and continuous-mixing on phytoplankton succession and species composition. Presented at the Society of Canadian Limnologists (SCL), Trent University, Peterborough, Ontario, Canada.

1992

Aug. 16 - 21: **Agbeti, M. D.**, Kingston, J.C., Smol, J.P. & Watters. C. Phytoplankton succession and species composition: autogenic and allogenic factors. Presented at Shallow Lakes '92 (International conference on nutrient dynamics and biological structure in shallow freshwater and brackish lakes), Silkeborg, Denmark.

1991

Aug. 12 - 16: **Agbeti, M.D.**, Smol, J.P. & Kingston, J.C. Dynamics of chrysophytes and their stomatocysts in two temperate lakes of differing basin morphometries. Presented at the 3rd International Chrysophyte Symposium, Queen's University, Kingston, Ontario, Canada.

June 10 - 13: **Agbeti, M.D.**, Smol, J.P., Kingston, J.C. & Watters, C. Phytoplankton succession and species composition: autogenic and allogenic factors. Presented at the American Society of Limnology and Oceanography (ASLO) conference, Halifax, Nova Scotia, Canada.

Jan. 2 - 5: **Agbeti, M.D.**, Kingston, J.C. & Smol, J.P. Phytoplankton succession and species composition: autogenic and allogenic factors. Presented at the Society of Canadian Limnologists (SCL), Guelph University, Guelph, Ontario, Canada.



1987

May 11 - 14 : **Agbeti, M.D.** & Dickman, M. Diatom assemblages as indicators of trophic status. Presented at the 30th Annual Conference of the International Association of Great Lakes Research (IAGLR) Ann Arbor, Michigan, U.S.A.

### **Scientific Society Memberships (Professional Affiliations)**

1. North American Lake Management Society (NALMS)
2. American Society of Limnology and Oceanography (ASLO)
3. Society of Canadian Limnologists (SCL)
4. Society of International Limnologists (SIL)
5. International Society for Diatom Research (ISDR)

### **Other Professional Affiliations**

Environmental Services Association of Alberta  
Nova Scotia Environmental Industry Association

### **Partial list of clients**

- Alberta Environmental Protection, Alberta, Canada
- Alberta Research Council, Vegreville, Alberta, Canada
- Alberta Pacific Forest Industries Inc. (ALPAC), Boyle, Alberta, Canada
- Associated Engineering, Alberta Ltd., Edmonton, Alberta, Canada
- Gartner Lee Ltd., Markham, Ontario, Canada
- Golder Associates Alberta and Saskatoon, Canada
- Lake Biwa Musuem, Oroshimo, Kusatsu, Japan
- Luscar Ltd. - Coal Valley Mine, Edmonton, Alberta, Canada
- Menzie-Cura & Associates, Winchester, MA, USA
- Queen's University, Kingston, Ontario, Canada
- R.L.& L. Environmental Services Ltd., Edmonton, Alberta, Canada
- Rescan Environmental Services Ltd., Vancouver and Yellowknife, Canada
- State of Wyoming, Department of Environmental Quality, Wyoming, USA
- State of West Virginia, Department of Environmental Protection, Charleston, WV, USA
- State of Maryland, Department of the Environmental, Baltimore, MD, USA
- Syncrude Canada Ltd., Fort McMurray, Alberta, Canada
- USEPA – GLNPO (Great Lakes phytoplankton) – - University of Wisconsin
- NRRI-CWE-University of Minnesota- Duluth (Great Rivers Algae Project)
- University of Alberta, Edmonton, Alberta, Canada
- University of Saskatoon, Saskatchewan, Canada
- Wilson Environmental Labs, Duluth, MN, USA
- University of Maryland, College Park, MD, USA

- University of Massachusetts, Amherst, USA
- Westworth Associates Environmental Ltd., Edmonton, Alberta, Canada
- University of California-Santa Barbara, USA
- Environment Canada
- Jacques Whitford/AXYS, Calgary, Alberta, Canada
- Multi-lab Direct, Rouyn-Noranda, Québec. Canada

## PROPOSAL FOR PERIPHYTIC ALGAL ANALYSIS (DEP13876)

This proposal (DEP13876) is submitted to the Department of Environmental Protection, Division of Water Resources, State of West Virginia, for periphytic algal analyses.

**Project Management:** The overall management of the contract will be under the leadership of Dr. Michael Agbeti, the principal owner and Senior Scientist of Bio-limno Research & Consulting. All the taxonomic aspects of the work (identification, enumeration and calculations) will be performed by Michael, while a technician will help with diatom slide preparation and other lab operations.

**Taxonomic Expertise:** Michael is a freshwater biologist with special interest in limnology. His Ph.D. thesis investigated the effects of frequent mixing on the seasonal succession of phytoplankton and zooplankton, as well as other limnological variables; the Master's thesis dealt with the use of diatom algae as indicators of historical changes in trophic status. Following his Ph.D., Michael has spent 2 years doing research on Alberta lakes at the University of Alberta. Michael has many years of experience in a wide range of lab and field techniques dealing with such topics as the routine monitoring of lake systems, to more detailed analyses. Michael has over 10 years of expertise in identification (to the species level) of algae and cyanobacteria, and biomonitoring and interpretation of physical, chemical and biological (phytoplankton and zooplankton) data in freshwater systems. See the attached CV that summarizes Michael's qualifications and a partial list of clients served by Bio-limno Research & Consulting.

**Description of Protocol:** To determine the appropriate dilution, the original sample will first be screened to assess the densities of algal matter and non-algal matter (debris and particulate matter). Aliquots of the diluted samples will be allowed to settle overnight in Utermohl chamber and the algae (both diatoms and soft algae) identified and enumerated on an inverted microscope (See attached "Protocol for Periphytic Algal Analysis" for details). The soft algae will be identified to the lowest possible taxonomic level, while diatoms will be counted but not identified. The bio-volume of the diatoms will not be calculated at this stage. Identification of diatoms to species level will be performed prior to cleaning with acid digestion and mounting on glass slides. A copy of the general procedure for analysis including taxonomic references has been included in this package.

**QA Procedures:** The quality assurance plan is an approach designed to meet or exceed the quality assurance objectives of Bio-limno Research & Consulting. Five quality assurance components will be addressed: (i) taxonomic accuracy; (ii) counting and measuring efficiency; (iii) data reporting; (iv) validation of electronic data against data log sheets; and (v) chain of custody.

Sample analysis, specifically identifications, enumeration and calculations of cell densities will be performed by Michael Agbeti, the Senior Scientist and taxonomic expert at Bio-limno Research & Consulting. Michael has many years of expertise in algal taxonomy. See "Taxonomic Expertise" above and the enclosed CV. Outside taxonomists will be utilized for taxonomic verifications when necessary.

The chain-of-custody requirements for routine laboratory operations will be fully documented for samples. The sample bottles, chain-of-custody and sample log sheet which accompanies each sample will be cross-checked to with one another to ensure they agree. Each sample will be assigned an individual lab (tracking) number and entered into our database.

All data will be recorded bench (count) sheets during the process of identification and enumeration and then computerized for calculations of cell densities and biomass calculations. The accuracy of the data

will be checked by an independent Data Clerk. Formal QA/QC counts (and associated reports) can be performed if requested and billed at the normal sample rate. The prepared slides for all the samples, along with leftover samples and digested diatom slurry, will be submitted along with the data.