

AMERICAN BOTTOMS  
REGIONAL WASTEWATER TREATMENT FACILITY

BID AB 101-26

Cold Vapor Atomic Absorption (CVAA)

SPECIFICATIONS

The cold vapor AA must be capable of quantifying mercury in wastewater, sludge, and solid matrices. The instrument must possess full automation and technical capabilities to analyze samples using EPA Method 245.1 and Method SW 846 7471B. Onsite training shall be performed within two weeks of instrument delivery unless postponement is agreed upon by American Bottoms Regional Wastewater Treatment Facility laboratory management. The instrument must have a warranty of one year covering non-consumable parts, service, and repairs.

1. Sample Introduction

- a. The sample introduction system must include a fully automated autosampler with software included for operation.
- b. The autosampler must be capable of running at least 50 samples consecutively and have spots for at least 10 standards. These must be capable of being monitored, set-up, and controlled via software.
- c. The instrument must demonstrate the ability to meet aqueous matrix method detection limits  $< 0.2 \text{ ug/l}$ , and solid matrix method detection limits  $< 0.5 \text{ ug/l}$ .
- d. All gas flows like argon and compressed air must have the capability of being operated by the instrument software.

2. Optical Systems

- a. The instrument optical systems must be sealed to the laboratory environment such that it is not susceptible to dust, moisture, or acid fumes.
- b. The optics must be easy to perform maintenance such as cleaning, re-seating, or replacing any necessary parts without a service technician.

3. Operation
  - a. The instrument must be easy to operate with linearity to at least 4 orders of magnitude.
  - b. The system must be interference free with precision exhibited around 95% RSD.
  - c. The detector must be highly sensitive with the capability of running numerous samples consecutively without contamination or cross-over.
4. Software
  - a. Instrument operating software must be Windows 11 based and be compatible with Promium LIMS system.
  - b. The software must be capable of collecting, storing, and integrating data.
  - c. The software must have built-in diagnostic checks for instrument systems in order to verify proper operating conditions.
  - d. The software must allow for reprocessing of data.
5. Safety
  - a. The instrument and all associated components must be approved for safe use by a nationally accepted testing laboratory.
6. Dimensions
  - a. The instrument must have a low profile and have the capability of fitting on a desktop or inside a fume hood.
7. System PC and Data Station
  - a. The system data station must be a current model PC capable of fully supporting all aspects of data acquisition, quantitation and reporting.
  - b. The operating system must be Windows 11 capable.
  - c. The minimum hardware configuration for the data station computer must be an i7-6700 processor, 8GB RAM, 1TB hard drive, DVD drive and a 23 inch flat screen monitor.

- d. The computer must come installed with Office 365.
- e. The system data station must include as an option, a laser printer.
- f. The data system and PC must include all cables and interfaces necessary for operation with the AA and system accessories.

8. Service

- a. The equipment must be covered by a one-year warranty which includes all non-consumable parts, service, and repair for the first year.
- b. Beginning the second year of service, the manufacturer of the instrument must include the service contract options with associated costs in the bid document.
- c. The bidder must include a list of at least three references pertaining to the service record of the manufacturer in the bid document, unless we have had previously or currently have contracts with your company.

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REGIONAL WASTEWATER TREATMENT FACILITY

AB 101-26

Cold Vapor AA

BID FORM

Village of Sauget  
Attn: Village Clerk  
2897 Falling Springs Road  
Sauget, Illinois 62206

Dear Sir or Madam,

The undersigned, as bidder, has read the forgoing bid and accepts the terms and conditions stated therein. The undersigned is submitting this Bid Form and all the information requested as part of their bid response to Bid AB 101-26.

Itemized Pricing of the System Cold Vapor AA

Cold Vapor AA with System  
PC and Software                      \$ \_\_\_\_\_

Optional Service Contract,  
Beginning year 2                      \$ \_\_\_\_\_

Optional: HP 6701 Laser Jet  
Enterprise Printer                      \$ \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Signature of Authorized Officer

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Typed Name and Title

---

Street Address

---

City, State and Zip Code

---

Telephone Number

AMERICAN BOTTOMS  
REGIONAL WASTEWATER TREATMENT FACILITY

BID AB 101-26

Cold Vapor Atomic Absorption Instrument

***INSTRUCTIONS TO BIDDERS***

**1. Bid Acceptability**

The Village of Sauget DBA American Bottoms Regional Wastewater Treatment Facility (American Bottoms) will accept bids from single manufacturers/suppliers and joint ventures. American Bottoms reserves the right to accept all or any part of the bid.

**2. Interpretation of Documents**

If any bidder is in doubt as to the true meaning of any part of the documents or requirements contained in the bid specifications and bid documents, a written request for interpretation may be submitted no later than 14 calendar days prior to the bid opening to the American Bottoms Regional Wastewater Treatment Facility, One American Bottoms Road, Sauget, Illinois 62201.

**3. Bid Acceptance Period**

All offers must be firm and irrevocable for a minimum period of 90 days after the date of bid opening.

**4. Submission of Bids**

**A. Delivery of Bids**

Bids must be priced, signed once and delivered (with all necessary attachments) to the Village Clerk, Village of Sauget, 2897 Falling Springs Road, Sauget, Illinois 62206 by the date and time stated in the Invitation to Bid. The response should include an original document plus one copy. All bids must be submitted in a sealed envelope clearly stating the bid document number and that a bid document is enclosed.

**B. Tardy Submittals**

Bids arriving after the date and time specified will not be accepted.

5. Disqualifications of Bidders

Any of the following reasons may result in the disqualification of a bidder and the rejection of his bid(s).

- A. Multiple bids.
- B. Failure to submit all required data as requested in the specification.
- C. Other legally justifiable reasons.

6. Format of Bid

The bidder must respond to this request for bids on the Bid Form provided. American Bottoms reserves the right to award any number, all or no items listed on the form under "Itemized Pricing".

7. Award or Rejection of Bids

A. Award

The contract will be awarded to the bidder who best satisfies the requirements listed, provided the bid is in the best interest of the American Bottoms Regional Wastewater Treatment Facility. Bids will be evaluated on the basis described.

Any award of an order or a contract will be made by written notification from the American Bottoms Regional Wastewater Treatment Facility on behalf of the Village of Sauget.

B. Right of Rejection

The Village of Sauget reserves the right to reject any or all bids, or to reject any part of any bid or to advertise for new bids on the same or similar projects.

8. Development Costs

Any costs resulting from the development and/or presentation of the bid must be incurred by the bidder.

9. Sales Tax

All sales of materials to the Village of Sauget are exempt from Illinois Retailer's Occupational (Sales) Tax and other related Illinois taxes, e.g., use tax.

10. Independent Bidders

The bidder shall be at all times independent and shall not be an employee nor agent of the Village of Sauget, the American Bottoms Regional Wastewater Treatment Facility nor the Village of Sauget Treatment Plant.

11. Insurance

Those awarded the bid will be required to submit proof of insurance to American Bottoms prior to the purchase ordering process. Failure to execute and deliver the insurance certificates within ten (10) days after the receipt of the award of this agreement shall be cause for the annulment of the agreement. (See "Insurance" attached for more information).



BID NO. AB 101-26

AMERICAN BOTTOMS

REGIONAL WASTEWATER TREATMENT FACILITY

BIDS DUE: September 17 @2:00PM

BID DOCUMENTS

For

Cold Vapor AA

Village of Sauget, Illinois

## **Insurance**

Certificates of Insurance identified hereinafter shall be submitted to American Bottoms as a condition to issuance of a Notice to Proceed and prior to commencement of work on the site. These Certificates must contain a provision that coverages afforded under the policies will not be canceled unless at least 30 days prior written notice has been given to the owner.

The Contractor/Subcontractor shall provide American Bottoms with a Certificate of Insurance and Additional Insured Endorsement on ISO Form CG 2010 (11-85) or its equivalent naming American Bottoms any Subcontractors/Contractors, the Village of Sauget, and the Sauget Sanitary Development and Research Association as Additional Insureds thereunder. Additional Insured coverage shall apply as primary insurance with respect to any other insurance afforded to the Contractor/Subcontractor or American Bottoms or the Village of Sauget or the Sauget Sanitary Development and Research Association. The Contractor's/Subcontractor's insurance shall not be less than the following:

- A. **Commercial General Liability:** The coverage available to the Contractor/Subcontractor or American Bottoms or the Village of Sauget or the Sauget Sanitary Development and Research Association, as Additional Insureds, shall not be less than \$1 million dollars each occurrence, \$2 million General Aggregate (subject to a per project general aggregate provision applicable to the project), \$2 million Products/Completed Operations Aggregate and \$1 million Personal and Advertising Injury limits. Such insurance shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including tort liability of another assumed in a business contract). There shall be no endorsement or modification of the commercial general liability form arising from pollution, explosion, collapse, underground property damage or work performed by contractors/subcontractors. All shall be reasonably acceptable to American Bottoms. Coverage shall be afforded to the Additional Insured whether or not a claim is in litigation.
- B. **Workers Compensation and Employers Liability Insurance:** As required by Law and affording 30 days written notice to American Bottoms prior to cancellation or non-renewal, providing coverage of not less than \$1,000,000 for bodily injury caused by accident and \$1,000,000 for bodily injury by disease.
- C. **Business Auto Liability Insurance:** Written in the amount of not less than \$1,000,000 each accident for all autos including hired and non-owned autos.

**D. Umbrella Liability Insurance:** Written in the amount of not less than \$5,000,000 each occurrence.

Failure to execute and deliver the insurance certificates within ten (10) days after the receipt of the award of this agreement shall be cause for the annulment of the agreement.