

**CITY OF LITTLE ROCK  
PUBLIC WORKS DEPARTMENT**

**INVITATION TO BID # C15003**

**SPECIFICATIONS FOR  
SAMPLING AND LABORATORY  
ANALYSIS OF STORM WATER RUNOFF**

**PART 1 - GENERAL**

**Work Included**

This specification outlines contract requirements for sampling and laboratory analysis to be used on storm water samples for discharge monitoring reporting. Storm water sampling and analysis will include one sample each quarter from each of the City's five storm water runoff outfalls (outfalls 001 to 003 and outfalls 005 and 006). This contract will cover the period from March 1, 2015 through February 28, 2016 with two (2) one year renewals if mutually acceptable.

**References**

All sampling and analysis shall comply with the applicable provisions of the following:

- National Pollutant Discharge Elimination System Permit ARS000002 Standard Conditions, Part 4.1-9.: Monitoring and Records;
- Code of Federal Regulations, Title 40, Part 136: U.S. EPA Approved Analytical Methods;

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges.

All potential contractors must be certified by the Arkansas Department of Environmental Quality Lab Certification Program. The City reserves the right to reject any and all bids, and to waive any informality in the selection process. Bids shall remain in effect for not less than sixty (60) days from the date of bid opening.

**PART 2 - MATERIALS**

Contractor shall furnish all necessary monitoring, measuring, composite, and sampling equipment, containers, preservatives and appurtenant materials essential in the performance of contract services.

## **PART 3 - PRODUCTS**

### **Records and Monitoring Information**

Contractor will collect and analyze storm water samples collected seasonally from a representative storm event of greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable storm event from each permitted outfall identified in the NPDES Permit. Seasonal monitoring periods are: June 1 - August 31; September 1 - November 30; December 1 - February 28; and March 1 - May 31.

Records and monitoring information required under this contract will include:

- date, exact place, time and methods of sample collection and measurement;
- individual(s) who performed sample collection and measurement;
- date(s) analyses were performed;
- analytical techniques or methods used; and,
- measurements and results of such analysis.

### **Sample Locations**

Contractor shall collect necessary grab or flow-weighted composite storm water sample from each outfall listed in Table 3.1

TABLE 3.1 OUTFALL LOCATIONS NPDES PERMIT ARS000002	
Outfall 001:	Open channel, at south headwall, southwest corner of intersection, Interstate 630 and University Avenue.
Outfall 002:	Open channel, at east headwall of bridge under Whitfield Street, south of the intersection with 33 <sup>rd</sup> Street.
Outfall 003:	Open channel, at north headwall of box culvert under Chenal Parkway, at Oak Meadow Drive.
Outfall 005:	Bond Ditch, at north headwall of box culvert under 14 <sup>th</sup> Street, near the intersection with Bond Street and the railroad tracks.
Outfall 006:	Open channel, at the south headwall within the park past the swimming pool at the end of Gilliam Park Road

### **Analysis of Samples**

Contractor shall collect necessary grab storm water samples, and analyze each sample for the parameters listed in Table 3.2.

**TABLE 3.2**  
**LIST OF PARAMETERS TO BE ANALYZED**

Flow (MGD)	pH (SU)
BOD (mg/l)	Total Suspended Solids (mg/l)
Total Dissolved Solids (mg/l)	Total Silver (ug/l)
Nitrate+Nitrite Nitrogen (mg/l)	Dissolved Phosphorus (mg/l)
Oil & Grease (mg/l)	Hardness (mg/l)
Total Cadmium (ug/l)	Total Copper (ug/l)
Total Lead (ug/l)	Total Zinc (ug/l)
E. Coli Bacteria (col/100ml)	Enterococcus Fecal (col/100ml)

### **Storm Event Data**

Contractor will collect quantitative data to estimate pollutant loadings and event mean concentrations for each parameter sampled. Storm event data will include date and duration of storm event sampled, rainfall measurements or estimates of storm event that generated sample runoff, duration between storm events sampled and end of previously measurable storm event, and an estimate of total volume of discharge sampled.

### **Reports**

Contractor will collect and composite a representative storm water sample discharged from each of five outfalls, perform sample analysis, and submit completed Discharge Monitoring Reports (DMR) to City of Little Rock no later than twentieth (20<sup>th</sup>) day following seasonal monitoring period.

Contractor shall furnish analytical results of storm water samples on a pre-printed Discharge Monitoring Report provided by City of Little Rock or Arkansas Department of Environmental Quality. Event data and quality control/quality assurance data shall also be provided at time DMR is submitted.

### **Sample Retention**

Contractor will retain samples for a period of thirty days following submittal of Discharge Monitoring Report.

### **Contract for Services**

A one year purchase order for services will be awarded to the selected firm. By mutual agreement, the terms of the original one year purchase order may be extended each year for two additional one year terms making a total of three years. The purchase order will reflect the bid prices as shown in the Bid Schedule.

**END OF SPECIFICATION**

**CITY OF LITTLE ROCK  
PUBLIC WORKS DEPARTMENT**

**SAMPLING AND ANALYSIS OF STORM WATER RUNOFF**

**REQUEST FOR BIDS FORM**

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Offer of \_\_\_\_\_ (hereinafter called “Contractor”) organized and existing under the laws of the State of Arkansas, doing business as \_\_\_\_\_ (corporation, partnership or individual), to the City of Little Rock, Arkansas (hereinafter called “Owner”):

In response to Request for Bids, Contractor hereby proposes to perform all specified work for sample collection, analysis and reporting of storm water runoff samples from Owner’s municipal separate storm sewer system, in accordance with RFB information, within times set forth therein, and at prices stated in the following Bid Schedule.

By submitting this bid, Contractor certifies, and in case of a joint bid each party thereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other Contractor or with any competitor.

**BID SCHEDULE**

Contractor hereby agrees to provide sample collection, laboratory analysis and DMR reporting of storm water runoff from City of Little Rock municipal separate storm sewer system at outfalls identified in, and in according with specifications attached, for unit prices set forth below. Bids shall include all applicable taxes and fees.

**BID SCHEDULE**

**SAMPLING, ANALYSIS AND REPORTING**

<b>Item No.</b>	<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Item Amount</b>
1	Collection of quarterly storm water samples (3/1/15 through 2/28/16)	20	each	_____	\$ _____
2	Analysis of quarterly storm water samples	20	each	_____	\$ _____
3	Reporting of quarterly storm water samples	20	each	_____	\$ _____

**TOTAL BID - SAMPLING, ANALYSIS & REPORTING**      \$ \_\_\_\_\_

The successful Contractor will be that responsive, responsible contractor submitting lowest cost for performing work. Owner reserves right to reject any and all offers, and to waive any informality in selection of proposals. Bids shall remain in effect for not less than sixty (60) days from the date of bid opening.

Respectfully Submitted:

Contractor: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_ License No. \_\_\_\_\_

SEAL: (if Offer is by a Corporation)

Attest: \_\_\_\_\_

**END OF BID**