



RICK ELUMBAUGH, MAYOR
DENISE JOHNSTON, CLERK
LINDSEY CASTLEBERRY, ATTORNEY

CITY OF BATESVILLE

500 East Main
BATESVILLE, ARKANSAS 72501
Phone 870-698-2400
FAX 870-698-2406

COUNCIL
THOMAS E. BRYANT
MARGARETT HENLEY
PAIGE HUBBARD
DAVY INSELL
FRED KRUG
DOUGLAS MATTHEWS
CHRIS POOLE
DAVID SHETRON

December 21, 2011

Ms. Rene E. Meints
Enforcement Analyst
Water Division Enforcement Branch
Arkansas Department of Environmental quality
5301 Northshore Dr.
North Little Rock, AR 72118-5317

Re: CAO LIS No. 08-083
AFIN 32-00044

Dear Ms. Meints:

Paragraph 3a of the captioned order requires the City of Batesville to conduct a comprehensive sewer system evaluation survey (SSES) and Paragraph 3b requires the development of a milestone schedule for the replacement and/or repair of all wastewater mains and pumping stations that cannot convey peak hydraulic loads as identified by the sewer system evaluation. The City completed the SSES and presented it to the ADEQ on August 24, 2011. At that meeting, the ADEQ and the City agreed on January 3, 2012, as the date by which the Milestone Schedule was to be submitted.

The City's Milestone Schedule addressing repair and/or replacement of wastewater mains and the main pumping station is enclosed for your review. The City anticipates that the initial repairs and replacements will be completed by the end of 2014. In 2015, the City anticipates conducting a review to determine effectiveness of the measures implemented. If the effectiveness review shows the need for additional improvements or repairs, the City would work toward completing the additional measures by October 31, 2018, consistent with your letter of March 24, 2011.

"CITY OF HOSPITALITY"

If you require additional information, please call me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rick Elumbaugh". The signature is written in black ink and is positioned above the printed name.

Rick Elumbaugh, Mayor

Cc: James C. Ulmer, P.E.,
City Council members

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

IN THE MATTER OF:

**CITY OF BATESVILLE
INDEPENDENCE COUNTY**

**LIS NO. 08-083
AFIN 32-00044**

**Milestone Schedule for Repair/Replacement of Wastewater Mains and
Pumping Stations That Cannot Convey Peak Hydraulic loads**

Item 3B of the above captioned consent administrative order (CAO) requires that the City of Batesville submit a milestone schedule for the replacement and or repair of all wastewater mains and pumping stations that cannot convey peak hydraulic loads as identified by the comprehensive collection system evaluation (SSES). The City completed the comprehensive collection system evaluation required by item 3A of the CAO and presented it to the ADEQ in August 2011. That report identified potential leaks and items needing repair while evaluating 100 miles of gravity sewer system containing approximately 2700 manholes.

The SSES identified sewer system defects requiring three fundamental types of repair as follows:

- A. Manhole Rehabilitation
- B. Private Service Lateral Rehabilitation
- C. Mainline Rehabilitation

Some of these repairs can be made by City employees, but other repairs may require the skill and expertise of specialized contractors. The SSES has identified repairs that have the highest potential for reducing infiltration inflow; these are accorded the highest significance. Other repairs will be implemented as part of the City's ongoing sewer system rehabilitation program.

Main Pump Station

Prior to the issuance of the CAO, the City had recognized that the existing wastewater treatment plant could not maintain compliance with its NPDES permit. Therefore, the City applied for and received funding from the State's Revolving Loan Fund for monies to construct upgrades to the wastewater treatment plant and the collection system. The City has executed two construction contracts (referred to as Contract Section I and Contract Section II) to implement these upgrades.

The main pumping station appears to limit the conveyance of peak hydraulic loads to the wastewater treatment plant. Therefore, the City included construction of large diameter lines to bypass the main pump station and convey wastewater to a new pump station at the existing wastewater treatment plant. The structure

for that new pump station is a part of Contract Section I for which construction began on February 12, 2010. The structure for that pump station should be completed by April 2012. Contract Section II relates to construction of wastewater treatment facilities. That work began on July 26, 2011 and those facilities are projected to be completed in April 2014. The balance of the new pump station equipment at the existing plant will be completed pursuant to Contract Section II when the balance of new treatments facilities are completed in 2014.

Mainline/Manhole and Private Service Rehabilitation

The early phases of the SSES which consisted of sewer system flow monitoring conducted prior to the issuance of the CAO identified certain mainlines which have peak sewer system flows which exceed the hydraulic capacity of the mainline. Utilizing the data collected in the SSES, the City's consulting engineer is developing a sewer system model to determine which mainlines require additional capacity consistent with projected sewer system rehabilitation. The modeling results will be used to develop plans and specifications for the repair and/or replacement of these mainlines, including the associated manholes.

During calendar year 2012, the City will complete concurrent designs for sewer system rehabilitation and sewer system mainline improvements. Part of the sewer system rehabilitation will be conducted by city forces for certain repair methods for which the city has operational capabilities. Other more complex rehabilitation methods will be completed by the use of contract forces which specialize in the required rehabilitation methods. The private service lateral lines which require repair will be completed by the owners of private property which are responsible for the private service lines. The City has the requisite legal authority to require private owners to undertake the repairs.

Following the completion of sewer system modeling and the production of plans and specifications for mainline improvements and sewer system rehabilitation, the City will complete the construction phase of these projects during calendar years 2013 and 2014. Following the completion of the rehabilitation phases and mainline construction phases, the City will evaluate in calendar year 2015 the effectiveness of the sewer system rehabilitation and the resulting peak hydraulic loads that occurs during significant rainfall events. Following the effectiveness evaluation in 2015, the City will determine whether additional facilities or significant sewer system rehabilitation will be required to convey peak hydraulic loads. If additional facilities or rehabilitation is required, the City will endeavor to place those facilities in service by October 31, 2018, consistent with ADEQ letter dated March 24, 2011.

The following schedule sets out concurrent activities for sewer system mainline construction and sewer system rehabilitation through calendar year 2018.

ACTION ITEM	ANTICIPATED MILESTONE DATE
Sewer Modeling and Plans Production	December 31, 2012
Mainline Construction	December 31, 2014
Main Pump Station Construction	December 31, 2014
Sewer System Rehabilitation Plans Production	May 31, 2012
Sewer System Rehabilitation by Contract	December 31, 2014
Sewer System Rehabilitation by City Forces	December 31, 2014
Rehabilitation of Private Service Lines	December 31, 2014-
Sewer System Effectiveness Evaluation	December 31, 2015
Remedial Action/Additional Facilities to Contain Peak Flows	October 31, 2018

This Comprehensive Plan and Milestone Schedule is respectfully submitted by the City of Batesville, Arkansas.

APPROVED:



RICK ELUMBAUGH, MAYOR
CITY OF BATESVILLE, ARKANSAS

12-27-2011

DATE

CERTIFIED MAIL™

CITY OF BATESVILLE

500 East Main

BATESVILLE, ARKANSAS 72501



7008 1830 0000 9341 0800



02 1P

\$ 005.79⁰

0004155874 JAN 05 2012

MAILED FROM ZIP CODE 72501

Ms. Rene E. Meints, Enforcement Analyst
Water Division Enforcement Branch
Arkansas Dept of Environmental Quality
5301 Northshore Dr.
North Little Rock, AR 72118-53117

721185317 ROIS

