



## CITY OF HELENA-WEST HELENA

March 4, 2022

Leslie Allen-Daniel  
Office of Water Quality, DEQ  
5301 Northshore Drive  
North Little Rock, AR 72118

[allen-daniel@adeq.state.ar.us](mailto:allen-daniel@adeq.state.ar.us)

Re: NPDES Permit Number: AR0043389, AFIN: 54-00083  
Sanitary Sewer Overflow and Request for Corrective Action Plan

Dear Ms. Allen-Daniel:

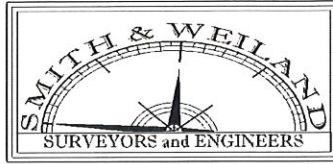
In response to your letter dated February 23, 2022, enclosed please find our Corrective Action Plan prepared by Ken Weiland, P.E..

Please contact me should you need additional information or have questions about this plan.

Sincerely,

  
Kevin A. Smith, Mayor

TERRY E. SMITH  
Registered Professional Land Surveyor  
MS Registration No. 2632  
AR Registration No. 1484



KENNETH L. WEILAND  
Registered Professional Engineer  
MS Registration No. 09971  
AR Registration No. 10791

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March 3, 2022

Hon. Kevin Smith, Mayor  
City of Helena – West Helena  
226 Perry Street  
Helena, AR 72342

***Reference: 2022 Oak Forrest Sanitary Sewer Overflow (SSO) Repair; Corrective Action Plan (CAP)***

Mayor Smith:

I have enclosed my recommended CAP for referenced SSO. Per the letter from ADEQ, this CAP must be submitted by the city to ADEQ by close of business Friday, March 4, 2022. We have also attached our invoice for our work on this project. Please do not hesitate to call if you have any questions or need any additional information.

With warm regards,

A handwritten signature in blue ink that reads "K.L. Weiland, P.E." with a stylized flourish at the end.

**KENNETH L. WEILAND, P.E.  
VICE PRESIDENT**

KLW/bls

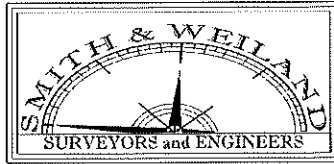
Enclosures: (ADEQ Letter, CAP, Photos 1 & 2, Invoice)

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**SMITH & WEILAND**  
SURVEYORS AND ENGINEERS, INC.  
728 Cherry Street  
Helena, AR 72342

Phone: (870) 338-6550

Fax: (870) 338-7730



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## CORRECTIVE ACTION PLAN (CAP)

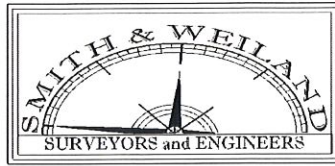
City of Helena-West Helena  
'22 Oak Forrest Water Repair

### 1. Actions taken from 1200 Thursday, 24 February 2022 to 1600, 01 March 2022

- 1) Engineer and staff made a field reconnaissance of the broken sewer line and began reviewing available plans of the line and adjoining manholes in order to make a rational plan to make the repair necessary to halt the sewer overflow. (Photo #1)
- 2) During the field reconnaissance, an additional overflow from a blocked manhole upstream of the reported sewer line break was discovered and immediately reported to the water & sewer system manager.
- 3) After the field reconnaissance and plan review, engineer developed a plan of how the existing broken line could be reconnected in a manner that would stop leakage using mechanical joints that would hold the line together and using ready mix bags to construct a temporary support pillar to lift the line back into alignment. The plan was discussed with water department staff to coordinate acquisition of the materials.
- 4) Upon completion of the above line repair, the heavy utility contractor positioned a sewer cleaning machine downstream of the blocked manhole and was able to successfully clear the blockage in the line below the manhole.
- 5) All repairs and clearing of the blocked line were completed as of 1600, Tuesday, 01 March 2022. The engineer and the utility contractor demobilized from the site. (Photo #2)

### 2. Proposed future corrective action plan

- Detailed plans, technical specifications and contract documents should be developed for competitive bidding purposes (as desired by action of the city council) to accomplish the following:
  - 1) To prevent, or at least slow down the head cut occurring in the natural stream in and around the sewer line, erosion control such as rip-rap should be installed around the line crossing and the temporary support pillar.
  - 2) The "temporary" repair was made in such a manner that the repair may serve more than just a short-term leak stoppage. The weak joint that was over the middle of the ditch was shifted closer to the support of the embankment which strengthens the section spanning the stream bed. There is no data as to how high nor at what velocity water moves down the stream during major rainfall events. There is no data on how much debris or the nature of the debris that moves down the stream. It is recommended that city personnel make onsite inspections of the stream during the next heavy rainfall events to determine if significant



pressure is being applied to the sewer line during such events. If so, the following action should be added to the CAP.

- 3) To minimize the risk of debris striking the exposed line, a steel encasement or some other protective means should be installed on or around the exposed pipe.
  - 4) Inspection of other exposed sewer lines in the area should be made and a plan to reinforce and protect those exposed lines can be included in the work.
- CAP Proposed Schedule-subsequent to the approval and engagement of an engineer and Notice to Proceed by the City:
    - 1) Assessment of city provided information/data of flow characteristics from (2) above = **1 week.**
    - 2) Additional review of reconnaissance of the existing, exposed sewer lines from which contract documents can be developed-**1 week.**
    - 3) Development of detailed plans, technical specifications, and contract documents-**4 weeks.**
    - 4) Approval of proposed contract documents for advertisement by the City-**2 weeks.**
    - 5) Advertise, bid, award-**6 weeks.**
    - 6) Construction complete-**4 weeks.**

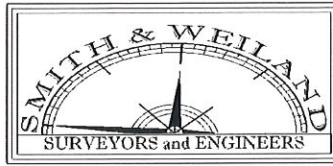
### 3. Plan of Action for future reporting procedures

- This item is the responsibility of the wastewater operator responsible under the NPDES permit and as required by all other local, state and federal reporting laws.
- Any sewer overflow should be reported via the ADEQ Sanitary Sewer Overflow link:

<https://www.adeq.state.ar.us/water/enforcement/ssso/submit.aspx?type=s>.

- Any sewer overflow shall be immediately brought to the attention of the Mayor and all appropriate action required by him and/or the City Council should be completed by emergency meetings if necessary and any other appropriate action as established by the city.





This Corrective Action Plan was developed at the request of the City of Helena-West Helena as required by a letter from the AR Department of Environmental Quality dated February 23, 2022. (copy attached) Smith and Weiland is an independent consultant working under a specific contract for this project and as such takes no responsibility for the execution of the above recommended CAP nor any other wastewater operations by the city including required sanitary sewer overflow reporting procedures. Smith & Weiland makes no warranty or guarantee of work performed by the city's independent utility contractor for the temporary corrective action taken to date.

Please do not hesitate to call me if you have any questions regarding the above recommended CAP.

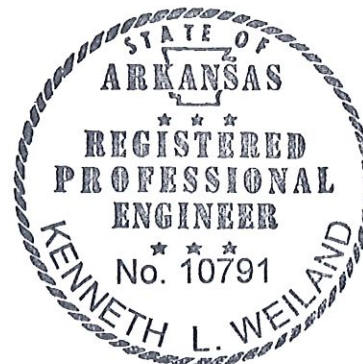
Respectfully submitted,

**KENNETH L. WEILAND, P.E.**  
**VICE PRESIDENT**

Smith & Weiland, Surveyors and Engineers, Inc.

728 Cherry Street  
Helena, AR 72342  
PH. (870) 338-6550  
FX. (870) 338-7730  
Email: [kensw@sbcglobal.net](mailto:kensw@sbcglobal.net)

KLW/bls  
Attachments



C:\Mainfile\City of Helena-WHelena\22 Oak Forrest Water Emergency\CORRECTIVE ACTION PLAN03022022.docx

**SMITH & WEILAND**  
SURVEYORS AND ENGINEERS, INC.  
728 Cherry Street  
Helena, AR 72342



PHOTO #1

2022/02/23





PHOTO # 2



2022/03/03





# ARKANSAS

## ENERGY & ENVIRONMENT

February 23, 2022

Email: [mayor@helena-westhelena.us](mailto:mayor@helena-westhelena.us)  
[cityclerk@helena-westhelena.us](mailto:cityclerk@helena-westhelena.us)

Honorable Kevin Smith, Mayor  
Honorable Wanda Crockett, Council Member  
Honorable Monica Davis, Council Member  
Honorable Don Ethely, Council Member  
Honorable Ever Jean Ford, Council Member  
Honorable Chris Franklin, Council Member  
Honorable Joe St. Columbia, Council Member

City of Helena-West Helena  
P.O. Box 248  
Helena-West Helena, AR 72342

**RE: NPDES Permit Number: AR0043389, AFIN: 54-00083  
Sanitary Sewer Overflow and Request for Corrective Action Plan**

Dear Mayor Smith and the City of Helena-West Helena Council Members:

On February 17, 2022, the Division of Environmental Quality's Office of Water Quality (OWQ) received a complaint to the National Response Center of a sanitary sewer overflow (SSO) of raw sewage from a broken above-ground 12-inch sewage pipeline discharging onto the road and nearby wooded area at the Oak Forrest Subdivision in the City of Helena-West Helena. This SSO is an unpermitted discharge and is a violation of the Federal Clean Water Act, 33 U.S.C. §1311(a) et seq., Arkansas Water and Air Pollution Control Act, and the Ark. Code Ann. §§ 8-4-217(a)(2)–(3) and (b).

Recent information indicates this SSO of raw sewage has been occurring for some time. Raw sewage contains high levels of Fecal Coliform Bacteria and *E. coli*. Because of the on-going SSO, the close proximity to a residential neighborhood, an elementary school, and waters of the state, DEQ requests the following immediate actions:

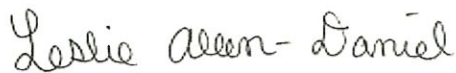
- The City of Helena-West Helena shall immediately stop the SSO. This action may include, but not necessarily limited to, pumping and hauling the wastewater to an appropriate disposal facility, a temporary line until a permanent repair can be completed, or some other appropriate interim measure. Please provide an email notification to [SSOADEQ@adeq.state.ar.us](mailto:SSOADEQ@adeq.state.ar.us) with photographs confirming the SSO discharge has stopped.
- Clean up the sewage, solids, and wastewater and disinfect the impacted areas.
- Report the SSO at DEQ's website at:  
<https://www.adeq.state.ar.us/water/enforcement/sso/submit.aspx?type=s>.



- The City of Helena-West Helena, **by the close of business on Friday, March 4, 2022**, shall submit a Corrective Action Plan (CAP), certified by a Professional Engineer, with a milestone schedule and expected date of completion that details the work that is being done or will be done to correct and identify the cause of this ongoing SSO. The CAP shall also include a SSO Action Plan that details the procedures for identifying, quantifying, documenting, and reporting of SSOs by the City.

Should you have any questions concerning this matter, please do not hesitate to contact me at 501-682-0630, or at [allen-daniel@adeq.state.ar.us](mailto:allen-daniel@adeq.state.ar.us).

Sincerely,

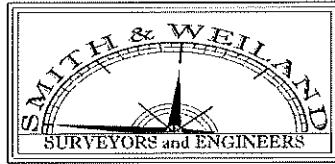


Leslie Allen-Daniel  
Enforcement Coordinator  
Office of Water Quality, DEQ  
5301 Northshore Drive, North Little Rock, AR 72118

Cc: Terry Paul, Environmental Health Branch Chief, ADH, [terry.paul@arkansas.gov](mailto:terry.paul@arkansas.gov)  
Stacie Wassell, Deputy Associate Director OWQ [Wassell@adeq.state.ar.us](mailto:Wassell@adeq.state.ar.us)  
Richard Healey, OWQ Enforcement Branch Manager, [healey@adeq.state.ar.us](mailto:healey@adeq.state.ar.us)



TERRY E. SMITH  
Registered Professional Land Surveyor  
MS Registration No. 2632  
AR Registration No. 1484



KENNETH L. WEILAND  
Registered Professional Engineer  
MS Registration No. 09971  
AR Registration No. 10791

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**STATEMENT**

**DATE:** 3/3/22

**CLIENT:** City of Helena-West Helena  
Kevin Smith, Mayor  
226 Perry Street  
Helena, AR 72342

SW Job No.: 22-519

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**ENGINEERING SERVICES:**

Engineering and construction coordination for '22 Oak Forrest emergency sewer repair

Principal Engineer: 19.5 hrs @ \$187.50.....\$3,656.25

Project Representative: 20 hrs @ \$85.00.....\$1,700.00

Administrative Assistant: 3.5 hrs @ \$45.00.....\$157.50

Amount Due Per Work Order No. 22-519.....\$5,513.75\*

**WE APPRECIATE YOUR BUSINESS!**

OK KAS  
2/23/22  
\* See ADEQ letter referencing  
the city's requirement that  
it will "shall immediately  
stop the SSO"  
temporarily.

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