

Temple, Jessica

From: Seth Pickens <sethpickens@ecoarkansas.com>
Sent: Tuesday, July 07, 2015 2:32 PM
To: Temple, Jessica
Cc: Bruce Shackelford; chall@mwyusa.com; Victor Rosetta
Subject: Re: ARG670833- Carroll-Boone Water District
Attachments: Captor 1.jpg; ATT00001..htm; Captor 2.jpg; ATT00002..htm; Captor Brochure.pdf; ATT00003..htm; MSDSCAPTOR-NSF.pdf; ATT00004..htm; Captor 3.jpg; ATT00005..htm

Jessica,

I have confirmed with our project engineer that the discharge will only contain water used for hydrostatic testing and will not contain any substances that are not monitored by the effluent limits of the ARG670000 permit, as the water used for the hydrostatic testing will be potable water pumped directly from the Carroll-Boone Water District Water Treatment Plant.

I have been unable to get in contact with our project Contractor who will be performing the hydrostatic testing activities to discuss the dosage of Captor that will be used during the de-chlorination process. However, I was able to find a document stating that municipalities generally use a multiplier of 1.48 pounds of Captor per pound of chlorine. Another document stated that for every 1 million gallons of water with a 7.0 pH and a 50 ppm chlorine residual, it takes roughly 250 gallons of Captor to completely remove the chlorine.

I have attached those document as well as other supporting documents to this email that speak to the environmentally friendly nature of Captor as compared to other similar chemicals. One of the documents state that Captor places less stress on the environment as compared to other similar chemicals as it is not an oxygen scavenger and consequently, does not reduce dissolved oxygen of water it is added to. Captor is also near neutral pH and does not affect the pH value of water it is added to.

I have also attached an additional MSDS I found that discusses the toxicological information of Captor. Hopefully these documents will provide you and the lab with the information that you need regarding the use of Captor.

Please let me know if you have any further questions or require any additional information.

For documentation purposes so that we can schedule the hydrostatic testing activities to occur, can you please let me know when our official 10-business day review period has begun and when it will end.

Cordially,

Seth Pickens, B.S., CPSWPPP, CCSI
Senior Environmental Scientist
Environmental Consulting Operations, Inc
Integrating ECONomy and ECOlogy since 1990
17724 I-30 Suite 5A
Benton, AR 72019

ARG670000 Checklist

ARG67 0833



New

Renewal

Modification

Permit Fee:

Disclosure Statement:

Sec. of State Check: N/A

Does the facility have any other NPDES permit: No

Yes: not at this location, but AFIN 08-00033
has:
ARG64 0030
ARG64 0147
4432-W6-WR-1

↳ If Yes, verify any overlapping limits

Discharge Path: unnamed tributary → Osage Creek → Kings River → White River

HUC: 11010001

Planning Segment: 4K

Potential Losing Stream Area: No Yes

Natural/Scenic Water: No Yes: _____ Distance: _____

Extraordinary Resource Water: No Yes: Kings River Distance: approx 16.9 miles

Ecologically Sensitive Waterbody: No Yes: _____ Distance: _____

(ALSO ERW-
White River)

303 (d) list Impaired: None

Category 5 – Waterbody: Kings River Source/Cause: Unknown/TDS Distance: approx 16.9 miles

Category 4a – Waterbody: Osage Creek Source/Cause: TP/municipal point source (TMDL) Distance: approx 11.6 miles

Site Map or Schematic diagram:

Discharge Location(s)

Volume and Rate of Discharge:

Test Water Source:

Pipeline/Vessel Condition: Used Virgin

Pipe/Vessel Material: 36" US Pipe tyton joint class 200 DIP (ductile iron)

Typical fluid:

Corrosion inhibitors: No Yes

↳ If Yes, MSDS sheets included for every additive?

Date sent to Tech. Services Manager: 7-7-15 Response Date: 7-7-15

Comments: email from Jeff Ruehr in correspondence folder

Check with Enforcement for non-compliance issues: Date Sent 7-7-15 Response Date 7-8-15

Discharge contains **only** water used for hydrostatic testing:

<0.1 mg/l of chlorine in discharge:

No substances that are not monitored by effluent limits in permit:

No lubricants with PCBs:

Other Comments: _____

A16 NBY



ECO, INC.

*"Integrating ECONomy and ECOlogy
Since 1990"*

17724 I-30, Suite 5A
Benton, Arkansas 72019
Phone (501) 315-9009
FAX (501) 315-9035
e-mail: ecoinc@sbcglobal.net
www.ecoarkansas.com

July 1, 2015

Mo Shafii, Assistant Chief
Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: Carroll-Boone Water District Highway 62 Waterline Relocation Project Application for Hydrostatic Testing Discharge Permit (ARG670000)

Mr. Shafii,

On behalf of the Carroll-Boone Water District (CBWD), ECO, Inc. hereby submits this, Notice of Intent (NOI), Disclosure Statement, Site Maps, and \$200 permit fee for coverage under the Hydrostatic Testing Discharge Permit (ARG670000).

The CBWD located in Eureka Springs, Arkansas provides potable water to Green Forest, Berryville, Harrison, a significant portion of Eureka Springs, and several other small municipalities. Due to an upcoming Arkansas Highway and Transportation Department (AHTD) project, which will involve the widening of Highway 62 in the project area, the existing waterline was relocated to provide adequate space for the additional highway and right-of-way width. The project involved the installation of approximately 3,338 Linear Feet (LF) of new 36-inch diameter Ductile Iron Pipe (DIP) waterline. Construction activity associated with the project resulted in a total surface disturbance of approximately 3.84 acres. The line work began on the south side of Highway 62 near the existing CBWD water pump station and proceeded east parallel to Highway 62 for approximately 3,338 LF and finished on the south side of Highway 62 just east of County Road 706. The final connection of the new waterline was made this week and the new line is now ready to be chlorinated and tested prior to being put into service. Hydrostatic testing of the new waterline is scheduled to commence during the week of July 6, 2015 and the discharge is anticipated to be continuous during one day for a period of 3-4 hours. The discharge will be directed into a rip rap area as to prevent scouring and erosion of soil at the discharge location.

The hydrostatic testing will be conducted by Rosetta Construction, LLC who is the contractor for the waterline project. Rosetta Construction will flush and de-chlorinate water from the new 36-inch water transmission line through a fire hydrant located at the Outfall No. 1 location indicated on the Notice of Intent (NOI) and site maps included with this application packet. The de-chlorination procedure will be performed using an Arden 2 1/2-inch De-Chlorination Bazooka that will be connected directly to the fire hydrant. Rosetta Construction will use the additive

Captor during the de-chlorination process, which will be added at the discharge point through the Arden system. Captor is a calcium thiosulfate solution and the MSDS has been included with this application packet.

During the de-chlorination process, a sample of the discharge water will be obtained and tested as required by the ARG670000 Permit in the field using a Hach Pocket Colorimeter II. The Hach Pocket Colorimeter II uses the N,N-diethyl-para-phenylenediamine (DPD) colorimetric testing method for total chlorine. This test will be performed throughout the entire duration of the discharge procedure to ensure that all discharged water is de-chlorinated. During each discharge procedure a field grab sample will be obtained in approved sample containers. The sample containers will then be transported to the certified lab at Beaver Water District and analyzed for Total Suspended Solids (TSS), Oil and Grease (O&G), and pH as required by Section 2.1 of ARG670000.

There will only be one discharge location (Outfall No. 1) during the hydrostatic testing activities, as shown on the site maps also provided with this application packet. The exact location is as follows:

**36° 20' 30.29" N
93° 29' 47.42" W**

**Township 19 N
Range 24 W
Section 2
Carroll County, Arkansas**

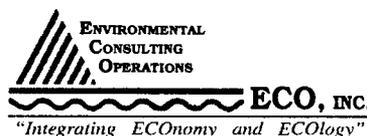
Should any questions arise during the processing of this application or if any additional information is required, please do not hesitate to contact me by phone at (479) 518-1819 or by email at seth@ecoarkansas.com.

Sincerely,



Seth Pickens, B.S., CCSI, CPSWPPP
Senior Environmental Scientist
Environmental Consulting Operations, Inc.
17724 I-30 STE 5A
Benton, AR 72019

Enclosures



ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
PIPELINE HYDROSTATIC TESTING DISCHARGE
NPDES GENERAL PERMIT ARG670000

30680 KB

Application Type: New Renewal Permit # ARG67_____
AFIN# 08-00033

I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name): Carroll-Boone Water District Operator Type:
Permittee Mailing Address: 11501 HWY 187 State Public
Permittee City: Eureka Springs Federal Corporation*
Permittee State: AR Zip: 72631 Sole Proprietorship/Private
Permittee Telephone Number: (479) 253-7269 *State of Incorporation: _____
Permittee Fax Number: N/A The legal name of the Permittee must be
Permittee E-mail Address: bconnellcbwd@gmail.com identical to the name listed with the
Arkansas Secretary of State.

II. INVOICE MAILING INFORMATION

Invoice Contact Person: Cathy Klein City: Eureka Springs
Invoice Mailing Company: Carroll-Boone Water District State: AR Zip: 72631
Invoice Mailing Address: 11501 HWY 187 Telephone: (479) 253-7269

III. FACILITY INFORMATION

Facility Name: Carroll Boone Water District Facility Contact Person: Barry Connell
Facility Address: 11501 HWY 187 Contact Title: General Manager
Facility County: Carroll Contact Telephone Number: (479) 253-7269
Facility City, State & Zip: Eureka Springs, AR 72631 Contact E-mail: bconnellcbwd@gmail.com
Facility SIC Code: 4941 Facility NAICS Code: 22131 Type of Business: Water Treatment Plant
Facility Latitude: 36 Deg 24 Min 41.18 Sec Facility Longitude: 93 Deg 50 Min 22.07 Sec
Accuracy: < 5 M Method: Precise Position Datum: WGS84 Scale: Unknown Description: Facility Center
Section: 10 Township: 20 Range: 27

IV. DISCHARGE INFORMATION

Is the permittee capable of meeting the applicable effluent limits and conditions of the general permit?

Yes No*

*If the answer is NO, do not submit the NOI for permit coverage.

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
 NOTICE OF INTENT
 PIPELINE HYDROSTATIC TESTING DISCHARGE
 NPDES GENERAL PERMIT ARG670000

Outfall Number:	1				
Stream Segment:	4K				
Hydrologic Basin Code:	11010001				
Outfall Latitude:	36	°	20	'	30.29 " N
Outfall Longitude:	93	°	29	'	47.42 " W
County:	Carroll County, AR				
Start Date:	July 6, 2015		End Date:	July 10, 2015	
Name of Receiving Stream:	Unnamed Tributary of Osage Creek, thence Osage Creek, thence the Kings River, thence the White River				
Are any of the Receiving Streams on the latest Clean Water Act section 303 (d) list of impaired waters or have an approved TMDL? If yes, list the Receiving Streams.	Osage Creek White River				
Estimated Volume of Discharge:	182,000			Gallons	
Estimated Rate of Discharge:	1,350			GPM	
Source of Test Water:	Potable water from CBWD Water Treatment Plant				
Pipeline/Vessel:	<input type="checkbox"/> Used <input checked="" type="checkbox"/> Virgin <input type="checkbox"/> Other _____				
Describe material from which pipeline/vessel was constructed:	36-inch U.S. Pipe Tyton Joint Class 200 DIP				
Type of fluid normally contained/transported through pipe/vessel:	Potable water from the CBWD Water Treatment Plant				
Are Corrosion Inhibitors Used?:	No				
Does pipeline use compressor lubricants containing polychlorinated biphenyls (PCBs)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

Outfall Number:					
Stream Segment:					
Hydrologic Basin Code:					
Outfall Latitude:		°		'	
Outfall Longitude:		°		'	
County:					
Start Date:			End Date:		
Name of Receiving Stream:					
Are any of the Receiving Streams on the latest Clean Water Act section 303 (d) list of impaired waters or have an approved TMDL? If yes, list the Receiving Streams.					
Estimated Volume of Discharge:				gallons	
Estimated Rate of Discharge:				MGD	
Source of Test Water:					
Pipeline/Vessel:	<input type="checkbox"/> Used <input type="checkbox"/> Virgin <input type="checkbox"/> Other _____				
Describe material from which pipeline/vessel was constructed:					
Type of fluid normally contained/transported through pipe/vessel:					
Are Corrosion Inhibitors Used?:					
Does pipeline use compressor lubricants containing polychlorinated biphenyls (PCBs)?	<input type="checkbox"/> Yes <input type="checkbox"/> No				

WATER DIVISION
 5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
 PHONE 501-682-0623 / FAX 501-682-0880
 www.adeq.state.ar.us

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
PIPELINE HYDROSTATIC TESTING DISCHARGE
NPDES GENERAL PERMIT ARG670000**

Additional Outfalls can be added using separate attached pages.

V. FACILITY PERMIT INFORMATION

NPDES Individual Permit Number (If Applicable): AR00
NPDES General Permit Number (If Applicable): ARG640030
State Construction Permit Number (If Applicable): _____
NPDES General Construction Stormwater Permit Number (If Applicable): ARR150000 (Automatic Notice of Coverage)

VI. OTHER INFORMATION:

Additional Location Description: N/A
Additional Comments: N/A
Consultant Contact Name: Seth Pickens
Consultant Email Address: seth@ecoarkansas.com
Consultant Address: 17724 I30 City: Benton State: AR Zip: 72019
STE 5A
Consultant Phone Number: (501) 315-9009 Consultant Fax Number: N/A

Disclosure Statements:

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. You must submit a new disclosure statement even if you have one on file with the Department. The form may be obtained from ADEQ web site at: http://www.adeg.state.ar.us/disclosure_stmt.pdf.

VII. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

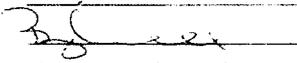
	Yes	No	* If No is answered for any of the questions, then a permit can not be issued!
Submittal of Complete NOI?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Submittal of Required Permit Fee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check Number: <u>5016</u>
Submittal of Site Map?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Submittal of Disclosure Statement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
PIPELINE HYDROSTATIC TESTING DISCHARGE
NPDES GENERAL PERMIT ARG670000

VIII. CERTIFICATION OF OPERATOR

- BC (Initial) "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas."
- BC (Initial) "I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant."
- BC (Initial) "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Responsible Official Printed Name:	<u>Barry Connell</u>	Title:	<u>General Manager</u>
Responsible Official Signature:		Date:	<u>June 23/2015</u>
Responsible Official Email:	<u>bconnellebwd@gmail.com</u>		
Cognizant Official Printed Name:	_____	Title:	_____
Cognizant Official Signature:	_____	Date:	_____
Cognizant Official Email:	_____	Telephone:	_____

WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880
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Safety Data Sheet Captor®

SDS Number: 2908 Revision: July 1, 2014

Section 1: IDENTIFICATION

- | | |
|---|---|
| 1.1 Product Name: | Captor® |
| 1.2 Other Identification: | |
| Chemical Family: | Inorganic salt solution |
| Formula: | CaS ₂ O ₃ |
| Reach Pre-Registration #: | 05-2115925358-40-0000 |
| 1.3 Recommended Use of Chemical: | Water treatment |
| 1.4 Manufacturer: | Tessenderlo Kerley, Inc.
2255 N. 44 th Street, Suite 300
Phoenix, Arizona 85008-3279 |
| Information: | (602) 889-8300 |
| 1.5 Emergency Contact: | Tessenderlo Kerley, Inc. (800) 877-1737
CHEMTREC (800) 424-9300, Domestic
(703) 527-3887, International |

Section 2: HAZARD(S) IDENTIFICATION
--

- | | |
|--|---|
| 2.1 Hazard Classification: | Health None
Physical None |
| 2.2 Signal Word: | Not Applicable |
| 2.2.1 Hazard Statement(s): | Not Applicable |
| 2.2.2 Symbol(s): | Not Applicable |
| 2.2.3 Precautionary Statement(s): | Avoid contact with eyes.
Use/store in cool, well ventilated areas.
Avoid prolonged/repeated breathing of vapors.
Avoid prolonged/repeated contact with the skin.
Keep away from any sources of heat or flames.
Store totes or small containers out of direct sunlight.
Wear protective apron, gloves and eye and face protection. |

Do not allow release to aquatic waterways.

2.3 Unclassified Hazard(s): None

2.4 Unknown Toxicity Ingredient: None

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS
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3.1 Chemical Ingredients: (See Section 8 for exposure guidelines)

Chemical	Synonym Common Name	CAS No.	EINECS No.	% by Wt.
Thiosulfuric acid (H ₂ S ₂ O ₃), calcium salt	Calcium thiosulfate	10124-41-1	233-333-7	20 - 30
Water	Water	7732-18-5	231-791-2	70 - 80

Section 4: FIRST AID MEASURES

4.1 Symptoms/Effects:

Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.

Chronic: No known chronic effects.

4.2 Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.

4.3 Skin: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain medical attention if irritation occurs.

4.4 Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

4.5 Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR.

Section 5: FIRE FIGHTING MEASURES
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5.1 Flammable Properties: (See Section 9, for additional flammable properties)

Heating this product to dryness will cause the release of oxides of sulfur.

NFPA: **Health - 0 Flammability - 0 Reactivity - 0**

5.2 Extinguishing Media:

5.2.1 Suitable Extinguishing Media: Not flammable, use media suitable for combustibles involved in fire.

5.2.2 Unsuitable Extinguishing Media: None known

5.3 Protection of Firefighters:**5.3.1 Specific Hazards Arising from the Chemical:**

Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of containers due to thermal expansion of compressed gases.

Chemical Hazards: Heating causes release of oxides of sulfur. Sulfur dioxide is highly irritating to the eyes, respiratory tract and moist skin.

5.3.2 Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

6.2 Environmental Precautions:

Large quantities should be kept out of "waters of the United States" because of potential aquatic toxicity (See Section 12).

6.3 Methods of Containment:

Small Release: Confine and absorb small releases with sand, earth or other inert absorbent.

Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity).

6.4 Methods for Cleanup:

Small Release: For small areas shovel up the absorbed material and place in drums for disposal as a chemical waste.

Large Release: Recover as much of the spilled product as possible using portable pump and hoses. Treat remaining material as a small release (above).

Section 7: HANDLING and STORAGE
--

7.1 Handling: Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling product. Avoid prolonged or repeated contact with the skin.

7.2 Storage: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5 for materials of construction).

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Guidelines:

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL	TWA	STEL
Not Applicable				

8.2 Engineering Controls: None

8.3 Personal Protective Equipment (PPE):

8.3.1 Eye/Face Protection: Chemical goggles and a full face shield.

- 8.3.2 Skin Protection:** Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.
- 8.3.3 Respiratory Protection:** None required. If conditions exist where mist may be created, a NIOSH/MSHA approved mist respirator should be worn.
- 8.3.4 Hygiene Considerations:** There are no known hazards associated with this product when used as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL and CHEMICAL PROPERTIES
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9.1 Appearance:	Colorless liquid
9.2 Odor:	Fresh concrete to no odor at all
9.3 Odor Threshold:	Not determined
9.4 pH:	6.5 – 8.0
9.5 Melting Point/Freezing Point:	Salt out temperature is 32°F (<i>Typical</i>)
9.6 Boiling Point:	100°C (212°F) with decomposition
9.7 Flash Point:	Not applicable
9.8 Evaporation Rate:	Not applicable
9.9 Flammability:	Not applicable
9.10 Upper/Lower Flammability Limits:	Not applicable
9.11 Vapor Pressure:	37mm Hg @ 100°F
9.12 Vapor Density:	Same as water
9.13 Relative Density:	1.25 – 1.26 (10.4 – 10.5 Lbs/gal) (<i>Typical</i>)
9.14 Solubility:	Complete
9.15 Partition Coefficient:	Data not available
9.16 Auto-Ignition Temperature:	Not applicable
9.17 Decomposition Temperature:	Data not available
9.18 Viscosity:	2.11 cSt @ 25°C

Section 10: STABILITY and REACTIVITY

- 10.1 Reactivity:** Avoid interaction with heat, flames, oxidizers or acids.
- 10.2 Chemical Reactivity:** This is a stable product under normal temperatures, 60 – 120°F (15 – 49°C).
- 10.3 Possibility of Hazardous Reactions:**
See Section 10.5, below.
- 10.4 Conditions to Avoid:** Heating above 120°F (49°C)

10.5 Incompatible Materials: Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness. Acids will cause the release of sulfur dioxide, a severe respiratory hazard. The following materials of construction are not compatible with calcium thiosulfate solutions; carbon steel, copper or its alloys (brass, bronze) or galvanized steel.

10.6 Hazardous Decomposition Products:

Calcium oxide and oxides of sulfur. Sulfur dioxide is a severe respiratory irritant.

Section 11: TOXICOLOGICAL INFORMATION
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11.1 Oral: Oral Rat (female) LD₅₀: > 2,000 mg/Kg (OECD 425)

Interperitoneal Rat LD_{LO}: 573.mg/Kg

Intravenous Rat LD_{LO}: 344 mg/Kg

Intraperitoneal Mouse LD₅₀: 115 mg/Kg

11.2 Dermal: Data not available

11.3 Inhalation: Data not available

11.4 Eye: Data not available

11.5 Chronic/Carcinogenicity: Not listed in NTP, IARC or by OSHA

11.6 Teratology: Data not available

11.7 Reproduction: Data not available

11.8 Mutagenicity: Data not available

Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Data not available.

12.2 Persistence & Degradability: Data not available.

12.3 Bioaccumulative Potential: Data not available.

12.4 Mobility in Soil: Data not available.

12.5 Other Adverse Effects: Data not available.

Section 13: DISPOSAL CONSIDERATIONS
--

Consult federal, state and local regulations for disposal regulations.

Section 14: TRANSPORT INFORMATION
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14.1 Basic Shipping Description:

14.1.1 Proper Shipping Name:	Calcium thiosulfate solution (Not regulated by DOT)
14.1.2 Hazard Classes:	Not applicable
14.1.3 Identification Number:	Not applicable
14.1.4 Packing Group:	Not applicable
14.1.5 Hazardous Substance:	No
14.1.6 Marine Pollutant:	No

14.2 Additional Information:

14.2.1 Other DOT Requirements:

14.2.1.1 Reportable Quantity:	Not applicable
14.2.1.2 Placard(s):	Not applicable
14.2.1.3 Label(s):	Not applicable

14.2.2 USCG Classification: Class 43, Misc. water solutions Chris Code: unknown

14.2.3 International Transportation:

14.2.3.1 IMO:	Non-hazardous under IMO regulations
14.2.3.2 IATA:	Non-hazardous under IATA regulations
14.2.3.3 TDG (Canada):	Non-hazardous under TDG regulations
14.2.3.4 ADR (Europe):	Non-hazardous under ADR regulations
14.2.3.5 ADG (Australia):	Non-hazardous under ADG regulations

14.2.4 Emergency Response Guide: Not applicable

14.2.5 ERAP (Canada): Not applicable

14.2.6 Special Precautions: None

Section 15: REGULATORY INFORMATION

15.1 U.S. Federal Regulations:

15.1.1 OSHA: This product meets the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).

15.1.2 TSCA: Product is contained in USEPA Toxic Substance Control Act Inventory

15.1.3 CERCLA: Reportable Quantity – Not applicable

15.1.4 SARA Title III:

15.1.4.1 Extremely Hazardous Substance (EHS): No

15.1.4.2 Section 312 (Tier II) Ratings:	Immediate (acute)	Yes
	Fire	No
	Sudden Release	No
	Reactivity	No
	Delayed (chronic)	No

15.1.4.3 Section 313 (FORM R): Not applicable

15.1.5 RCRA: Not applicable

15.1.6 CAA (Hazardous Air Pollutant/HAP): Not Applicable

15.2 International Regulations:**15.2.1 Canada:**

15.2.1.1 WHMIS: Not hazardous

15.2.1.2 DSL/NDSL: Listed in DSL

15.3 State Regulations:

15.3.1 CA Proposition 65: No

Section 16: OTHER INFORMATION

REVISIONS: The entire SDS was reformatted to comply with the new Hazard Communication Standard dated March 26, 2012, by Regulatory Affairs of Tessenderlo Kerley, Inc.

The information above is believed to be accurate and represents the best information currently available to Tessenderlo Kerley, Inc. (TKI). No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. Users should make their own investigations to determine the suitability of the information for their particular purpose and on the condition that they assume the risk of their use thereof. TKI reserves the right to revise this Safety Data Sheet periodically as new information becomes available.

**TMDL FOR PHOSPHORUS IN
OSAGE CREEK NEAR
BERRYVILLE, AR
(Reach 11010001-045L)**

**FINAL
January 10, 2006**

Table 4.2. Osage Creek total phosphorus TMDL.

Allocation	Load (lbs/day)
WLA for point sources	22.44
LA for nonpoint sources	64.54
MOS	9.66
TMDL	96.64

4.7 Future Growth

Compliance with this TMDL for total phosphorus is based on keeping concentrations in the stream below the target concentrations rather than keeping the loads in the stream below a certain amount. The assimilative capacity of the stream will increase as the amount of flow in the stream increases. Increases in flow will allow for increased loadings of phosphorus to Osage Creek. Future growth for existing or new point sources discharging to Osage Creek is not limited by this TMDL as long as the point source(s) do not cause instream concentrations of total phosphorus to exceed the target concentration of 0.1 mg/L. At this time the instream criterion is the water quality target established in Section 4.2. In the future, the instream criterion may be set by an addition of a numeric criterion to the standard or other values set by a nutrient criteria setting procedure by ADEQ.

Temple, Jessica

From: Ruehr, Jeff
Sent: Tuesday, July 07, 2015 3:29 PM
To: Temple, Jessica
Cc: Redican, Lessie
Subject: RE: ARG670833- Carroll-Boone Water District

Hello Jessica,

If this product is introduced into the water as the directions state, for de-chlorination, then there will be less environmental issues than if chlorinated water is discharged. I do not see any problem with allowing them to use this product.

Jeff Ruehr

From: Temple, Jessica
Sent: Tuesday, July 07, 2015 2:57 PM
To: Ruehr, Jeff
Cc: Redican, Lessie
Subject: FW: ARG670833- Carroll-Boone Water District

Jeff,

I see that Lessie is out of the office. Is there any way you could help me out with this? This is a one time discharge for the Carroll-Boone Water District.

Thanks,
Jessica

From: Temple, Jessica
Sent: Tuesday, July 07, 2015 2:48 PM
To: Redican, Lessie
Subject: FW: ARG670833- Carroll-Boone Water District

Lessie,

Could you have someone in the lab take a look at the attached information and let me know of any concerns? The Carroll-Boone Water District has applied for coverage under the ARG670000 General Permit for Pipeline Hydrostatic Testing Discharge. The discharge will consist of 182,000 gallons of hydrostatic testing water. They are kind of in a hurry to get the permit, so the sooner the better.

Thanks!
Jessica

From: Seth Pickens [<mailto:sethpickens@ecoarkansas.com>]
Sent: Tuesday, July 07, 2015 2:32 PM
To: Temple, Jessica
Cc: Bruce Shackelford; chall@mwyusa.com; Victor Rosetta
Subject: Re: ARG670833- Carroll-Boone Water District

Jessica,

I have confirmed with our project engineer that the discharge will only contain water used for hydrostatic testing and will not contain any substances that are not monitored by the effluent limits of the ARG670000 permit, as the water used for the hydrostatic testing will be potable water pumped directly from the Carroll-Boone Water District Water Treatment Plant.

I have been unable to get in contact with our project Contractor who will be performing the hydrostatic testing activities to discuss the dosage of Captor that will be used during the de-chlorination process. However, I was able to find a document stating that municipalities generally use a multiplier of 1.48 pounds of Captor per pound of chlorine. Another document stated that for every 1 million gallons of water with a 7.0 pH and a 50 ppm chlorine residual, it takes roughly 250 gallons of Captor to completely remove the chlorine.

I have attached those document as well as other supporting documents to this email that speak to the environmentally friendly nature of Captor as compared to other similar chemicals. One of the documents state that Captor places less stress on the environment as compared to other similar chemicals as it is not an oxygen scavenger and consequently, does not reduce dissolved oxygen of water it is added to. Captor is also near neutral pH and does not affect the pH value of water it is added to.

I have also attached an additional MSDS I found that discusses the toxicological information of Captor. Hopefully these documents will provide you and the lab with the information that you need regarding the use of Captor.

Please let me know if you have any further questions or require any additional information.

For documentation purposes so that we can schedule the hydrostatic testing activities to occur, can you please let me know when our official 10-business day review period has begun and when it will end.

Cordially,

Seth Pickens, B.S., CPSWPPP, CCSI
Senior Environmental Scientist
Environmental Consulting Operations, Inc
Integrating ECOnomy and ECOlogy since 1990
17724 I-30 Suite 5A
Benton, AR 72019
Office - 1-501-315-9009
Cell - 1-479-518-1819
seth@ecoarkansas.com

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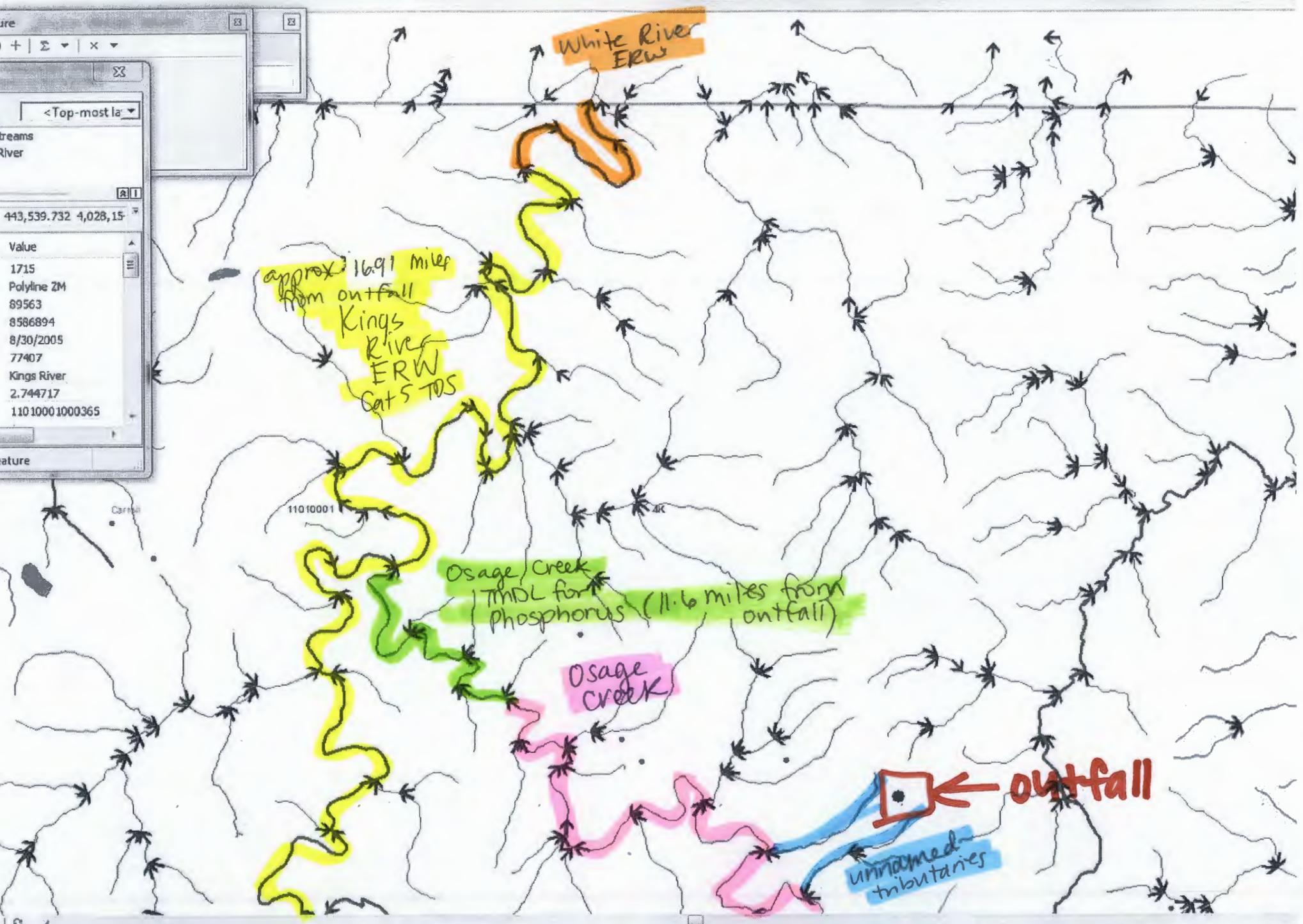


Figure 1. Site Location Map

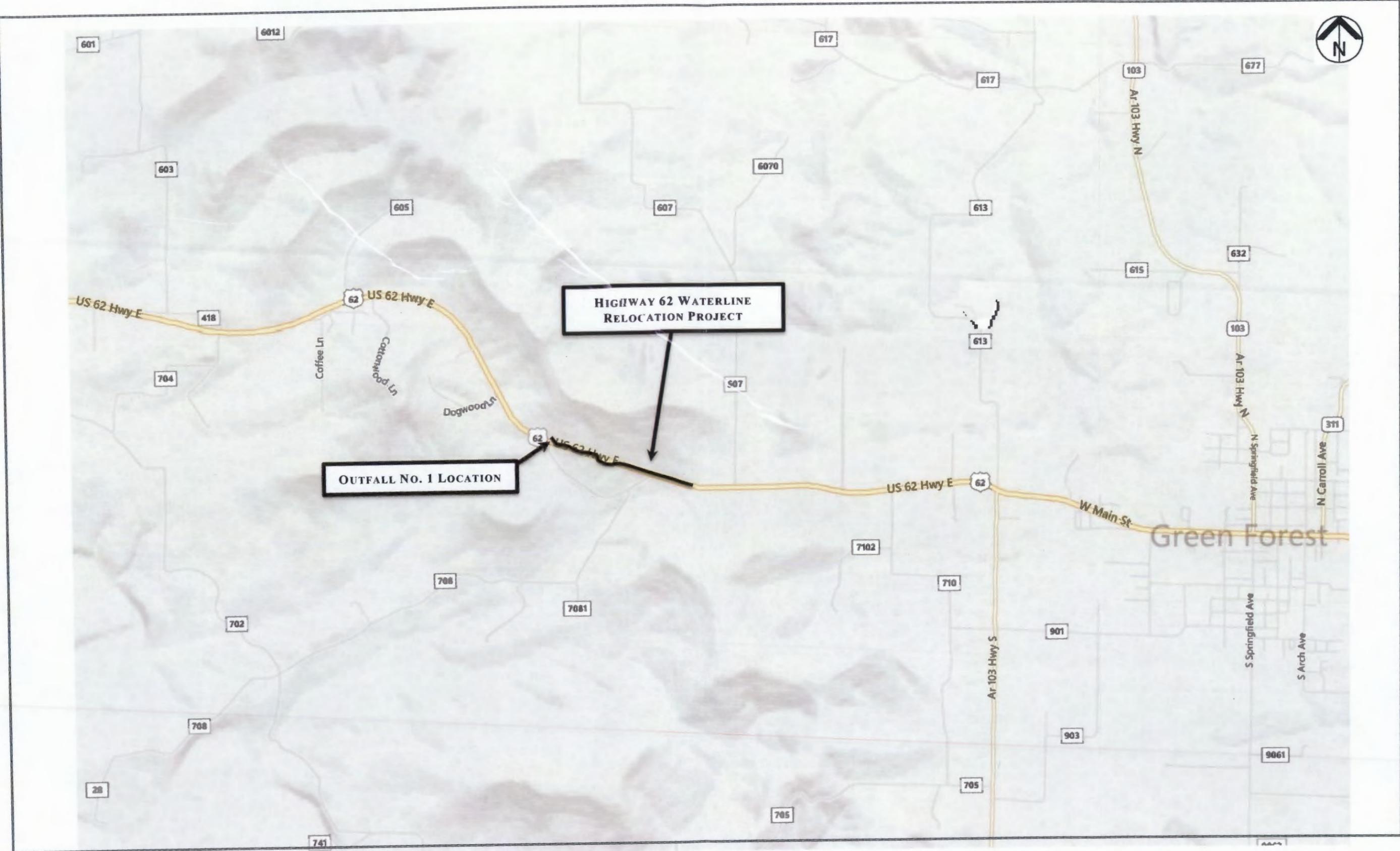


Figure 2. Topographic Map

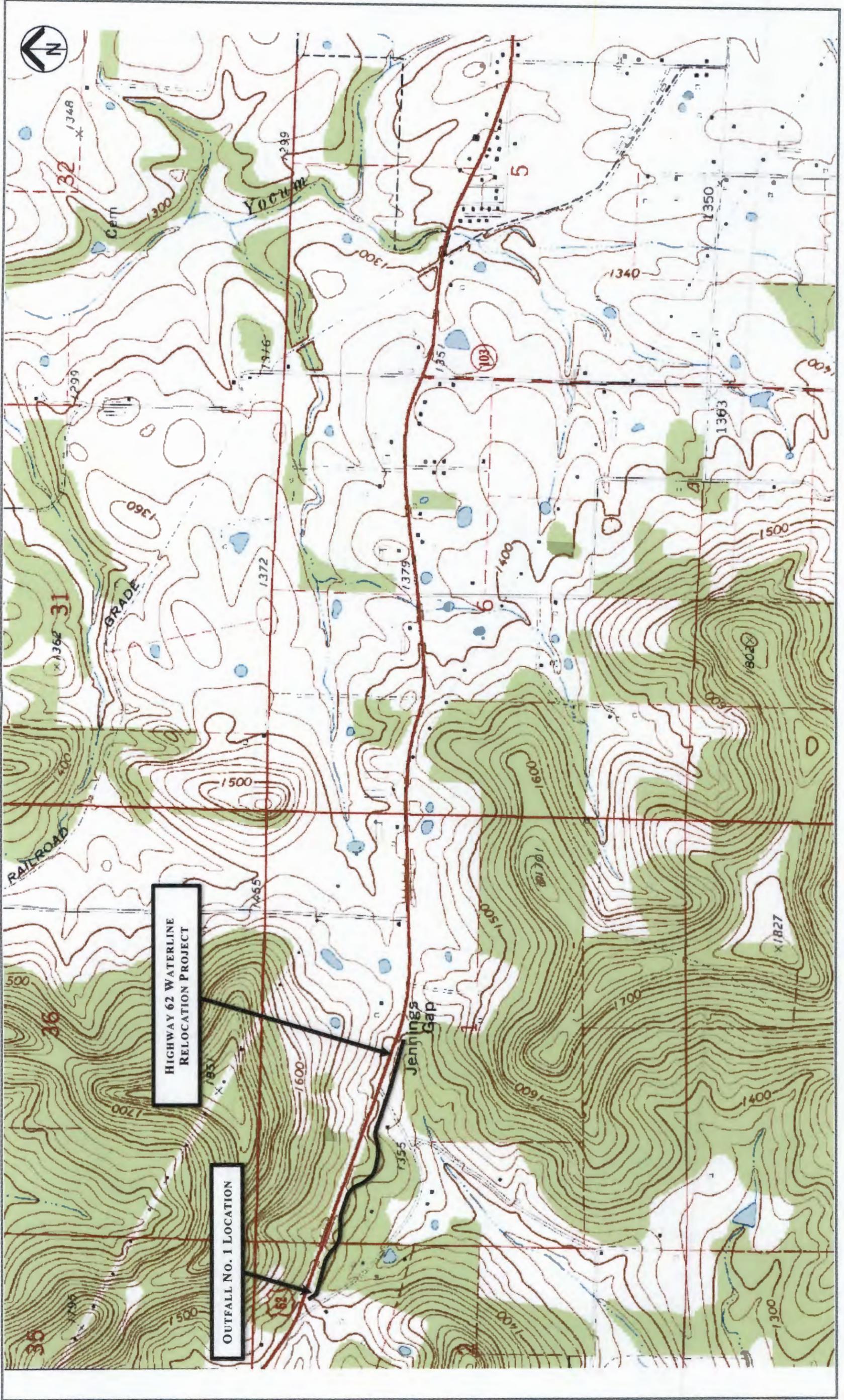


Figure 3. Aerial Photograph



INSTRUCTIONS FOR DISCLOSURE STATEMENT

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance, or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one.

Disclosure statement means a written statement by the applicant that contains:

- **The full name and business address of the applicant and all affiliated persons;**
- **The full name and business address of any legal entity in which the applicant holds a debt or equity interest of at least five percent (5%) or that is a parent company or subsidiary of the applicant, and a description of the ongoing organizational relationships as they may impact operations within the state;**
- **A description of the experience and credentials of the applicant, including any past or present permits, licenses, certifications, or operational authorizations relating to environmental regulation;**
- **A listing and explanation of any civil or criminal legal actions by government agencies involving environmental protection laws or regulations against the applicant and affiliated persons in the ten (10) years immediately preceding the filing of the application, including administrative enforcement actions resulting in the imposition of sanctions, permit or license revocations or denials issued by any state or federal authority, actions that have resulted in a finding or a settlement of a violation, and actions that are pending;**
- **A listing of any federal environmental agency and any other environmental agency outside this state that has or has had regulatory responsibility over the applicant; and**
- **Any other information the Director of the Arkansas Department of Environmental Quality may require that relates to the competency, reliability, or responsibility of the applicant and affiliated persons.**

Exemptions:

The following persons or entities are not required to file a disclosure statement:

- **Governmental entities, consisting only of subdivisions or agencies of the federal government, agencies of the state government, counties, municipalities, or duly authorized regional solid waste authorities as defined by § 8-6-702. (This exemption shall not extend to improvement districts or any other subdivision of government which is not specifically instituted by an act of the General Assembly.)**
- **Applicants for a general permit to be issued by the department pursuant to its authority to implement the National Pollutant Discharge Elimination System for storm water discharge.**
- **If the applicant is a publicly held company required to file periodic reports under the Securities and Exchange Act of 1934 or a wholly owned subsidiary of a publicly held company, the applicant shall not be required to submit a disclosure statement, but shall submit the most recent annual and quarterly reports required by the Securities and Exchange Commission which provide information regarding legal proceedings in which the applicant has been involved. The applicant shall submit such other information as the director may require that relates to the competency, reliability, or responsibility of the applicant and affiliated persons.**

Exemptions continued:

The following permits, licenses, certifications, and operational authorizations are also exempt from submitting a disclosure statement:

- **Hazardous Waste Treatment, Storage, and Disposal Permit Modifications (Class 1, 2, and 3), as defined in Arkansas Pollution Control and Ecology Commission (APC&EC) Regulation 23;**
- **Phase 1 Consultants, as defined in APC&EC Regulation 32;**
- **Certifications for Operators of Commercial Hazardous Waste Facilities, as defined in APC&EC Regulation 23 § 264.16(f);**
- **Regulated Storage Tank Contractor or Individual License Renewals as defined in APC&EC Regulation 12;**
- **Certifications for Persons Operating and Maintaining Underground Storage Tank Systems which Contain Regulated Substances, as defined in APC&EC Regulation 12.701, *et. seq.*;**
- **Individual Homeowners seeking coverage under General Permit ARG5500000;**
- **Wastewater Operator Licenses, as defined in APC&EC Regulation 3;**
- **Water Permit Modifications for permits issued under the authority of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. §8-4-101, *et. seq.*);**
- **Solid Waste Permit Modifications for permits issued under APC&EC Regulation 22;**
- **Solid Waste Landfill Operator License Renewals, as defined in Regulation No. 27;**
- **Air Permit Modifications for permits issued under APC&EC Regulations 18, 19, and 26; and**
- **Asbestos Certification Renewals, as defined in Regulation 21.**

Deliberate falsification or omission of relevant information from disclosure statements shall be grounds for civil or criminal enforcement action or administrative denial of a permit, license, certification, or operational authorization.

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY DISCLOSURE STATEMENT

Instructions for the Completion of this Document:

- A. Individuals, firms or other legal entities with no changes to an ADEQ Disclosure Statement, complete items 1 through 5 and 18.**
- B. Individuals who never submitted an ADEQ Disclosure Statement, complete items 1 through 4, 6, 7, and 16 through 18.**
- C. Firms or other legal entities who never submitted an ADEQ Disclosure Statement, complete 1 through 4, and 6 through 18.**

If Not Submitting by ePortal, Mail Original to:

**ADEQ
DISCLOSURE STATEMENT
[List Proper Division(s)]
5301 Northshore Drive
North Little Rock, AR 72118-5317**

1. APPLICANT: (Full Name)

Carroll-Boone Water District

2. MAILING ADDRESS (Number and Street, P.O.Box Or Rural Route) :

11501 HWY 187

3. CITY, STATE, AND ZIPCODE:

Eureka Springs, AR 72631

4a. Applicant Type:

Individual Corporate or Other Entity

4b. Reason for Submission:

Permit License Certification Operational Authority

New Application Modification Renewal Application (If no changes from previous disclosure statement, complete number 5 and 18.)

4c. Division:

Air Water Hazardous Waste Regulated Storage Tank Mining Solid Waste

5. Declaration of No Changes:

The violation history, experience and credentials, involvement in current or pending environmental lawsuits, civil and criminal, have not changed since the last Disclosure Statement that was filed with ADEQ on July 2006

6. Describe the experience and credentials of the Applicant, including the receipt of any past or present permits, licenses, certifications or operational authorization relating to environmental regulation. (Attach additional pages, if necessary.)

7. List and explain all civil or criminal legal actions by government agencies involving environmental protection laws or regulations against the Applicant * in the last ten (10) years including:

- 1. Administrative enforcement actions resulting in the imposition of sanctions;**
- 2. Permit or license revocations or denials issued by any state or federal authority;**
- 3. Actions that have resulted in a finding or a settlement of a violation; and**
- 4. Pending actions.**

(Attach additional pages, if necessary.)

*** Firms or other legal entities shall also include this information for all persons and legal entities identified in sections 8-16 of this Disclosure Statement.**

8. List all officers of the Applicant. (Add additional pages, if necessary.)

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

9. List all directors of the Applicant. (Add additional pages, if necessary.)

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

10. List all partners of the Applicant. (Add additional pages, if necessary.)

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

11. List all persons employed by the Applicant in a supervisory capacity or with authority over operations of the facility subject to this application.

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

12. List all persons or legal entities, who own or control more than five percent (5%) of the Applicant's debt or equity.

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

13. List all legal entities, in which the Applicant holds a debt or equity interest of more than five percent (5%).

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

14. List any parent company of the Applicant. Describe the parent company's ongoing organizational relationship with the Applicant.

NAME: _____

STREET: _____

CITY, STATE, ZIP: _____

Organizational Relationship:

15. List any subsidiary of the Applicant. Describe the subsidiary's ongoing organizational relationship with the Applicant.

NAME: _____

STREET: _____

CITY, STATE, ZIP: _____

Organizational Relationship:

16. List any person who is not now in compliance or has a history of noncompliance with the environmental laws or regulations of this state or any other jurisdiction and who through relationship by blood or marriage or through any other relationship could be reasonably expected to significantly influence the Applicant in a manner which could adversely affect the environment.

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

NAME: _____ TITLE: _____

STREET: _____

CITY, STATE, ZIP: _____

17. List all federal environmental agencies and any other environmental agencies outside this state that have or have had regulatory responsibility over the Applicant.

18. VERIFICATION AND ACKNOWLEDGEMENT

The Applicant agrees to provide any other information the director of the Arkansas Department of Environmental Quality may require at any time to comply with the provisions of the Disclosure Law and any regulations promulgated thereto. The Applicant further agrees to provide the Arkansas Department of Environmental Quality with any changes, modifications, deletions, additions or amendments to any part of this Disclosure Statement as they occur by filing an amended Disclosure Statement.

DELIBERATE FALSIFICATION OR OMISSION OF RELEVANT INFORMATION FROM DISCLOSURE STATEMENTS SHALL BE GROUNDS FOR CIVIL OR CRIMINAL ENFORCEMENT ACTION OR ADMINISTRATIVE DENIAL OF A PERMIT, LICENSE, CERTIFICATION OR OPERATIONAL AUTHORIZATION.

COMPLETE THIS SECTION ONLY IF SUBMITTING OTHER THAN BY EPORTAL:

I, Barry Connell, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

APPLICANT
SIGNATURE:



TITLE: General Manager

DATE: June 23 / 2015

General Permit Route Sheet

Facility Name		Carroll Boone Water District	
Permit Number		ARG 670833	AFIN NO.* 08-00502-
Assigned	Activity	Initials	Date
ASII	Application Logged/Assign Tracking Number/Place in purple folder with appropriate route sheet and filing folders (1-day)	KB	7-7
Engineer	Completeness and Technical Review/Enter permit information into Database *except NOI date* (3-days)	JH	7-7-15
	Include map showing Environmentally Sensitive Waters (ERWs, ESWs, NSWs, potential losing streams, 303(d) listed streams, stream segments with an established TMDL, proposed rerouting of stream, mining site, or reclamation site)	JH	7-7-15
ASIII	AFIN request (1-day)	KB	7-8
	Enter AFIN and other information into PDS and NPDES database prior to requesting invoice (same day)	KB	7-9
	Complete Invoice Request Form and submit Invoice Request (same day)	KB	7-9
Engineer Supervisor	Review all the documents and perform technical review for the proposed project. (1-day)	JH	7-9
Planning Section	Review documents if the facility is engaging in mining activity, reclamation sites, within 1 mile of an environmentally sensitive area, or proposing to relocate a stream. (if applicable) (3-days)		
	No comments <input checked="" type="checkbox"/> Comments emailed <input type="checkbox"/>	JW	7-10
Engineer Supervisor	Review comments from planning section and work with engineer to resolve any issues (if applicable). (3-days)	JH	7-10
ASIII	Scan NOI E:/ drive for Public Notice (1-day) NA Update Completion Date in Database Prepare Notice of Coverage (NOC) and attach appropriate forms (date NOC out at least 7 days due to public notice).	KB	7-10
Engineer	Review NOC (1-day)	JH	7-10-15
Engineer Supervisor	Review all documents and perform technical review (1-day)	JH	7-10
Branch Manager	Review all documents and perform technical review (if applicable) (1-day)	KB	7/10
Assistant Chief	Review all documents, perform technical review, and sign the NOC. (1-day)	-	-
Engineer Supervisor	Review and take to chief for final review and approval. (1-day)	JH	7/13
Chief	Final Review and Approval (if applicable). Work with Branch Managers for any comments. (2-days)	see	7/13
Engineer Supervisor	Review any comments from Chief and make appropriate changes based on comments and return to Management chain for review. (1-day)	JH	7/14
ASIII	Enter Into PDS: Permit Status/Effective Date. Input effective date in access database. (1-day)	KB	7-14
ASII	Mail original to applicant. Scan complete folder and place in appropriate E-drive folders. Update Zylab.	KB	7-14

Comments: 1:37 pm 7-7-15 spoke to Seth Pickens about additive
2:01 pm 7-7-15 emailed Seth Pickens