DIX RIVER WATERSHED STAKEHOLDER MEETING

November 19, 2020
1:30 – 3:00 PM
Virtual Event

AGENDA

1. Dix River Trivia (5 min)
2. Announcements and Updates (60 min)
   - Clarks Run & Hanging Fork Project Update
   - Danville WWTP Review and Update
   - Danville Stormwater Program Priorities
   - KY River Basin Update
   - PH II Sewer Project Update
   - CREEC Update
   - Centre Environmental Association Projects
   - Logan's Fort Trial Update
3. Breakout Sessions (20 min)
4. Summarize and Close (5 min)

STAKEHOLDER ROLES

GOALS OF THE STAKEHOLDER GROUP

1. Improve water quality in the Dix River watershed
2. Identify areas of concern and provide input on watershed problems and management strategies
3. Foster partnerships and collaboration
4. Help with community education and outreach

DIX RIVER TRIVIA

CLARKS RUN & HANGING FORK WATERSHED

IMPROVEMENT PROGRAM UPDATES

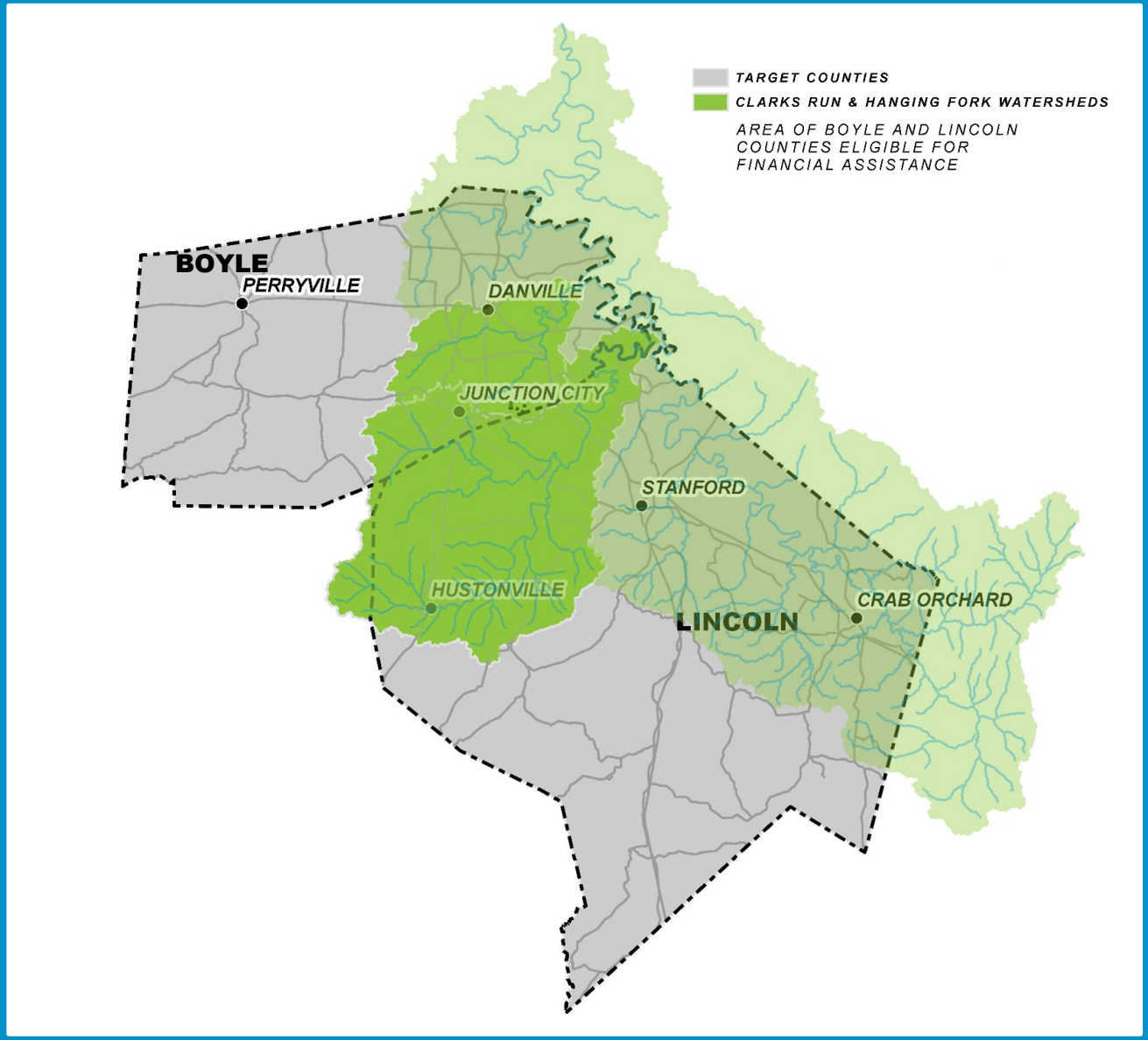
Dix River Stakeholder Meeting

November 19, 2020

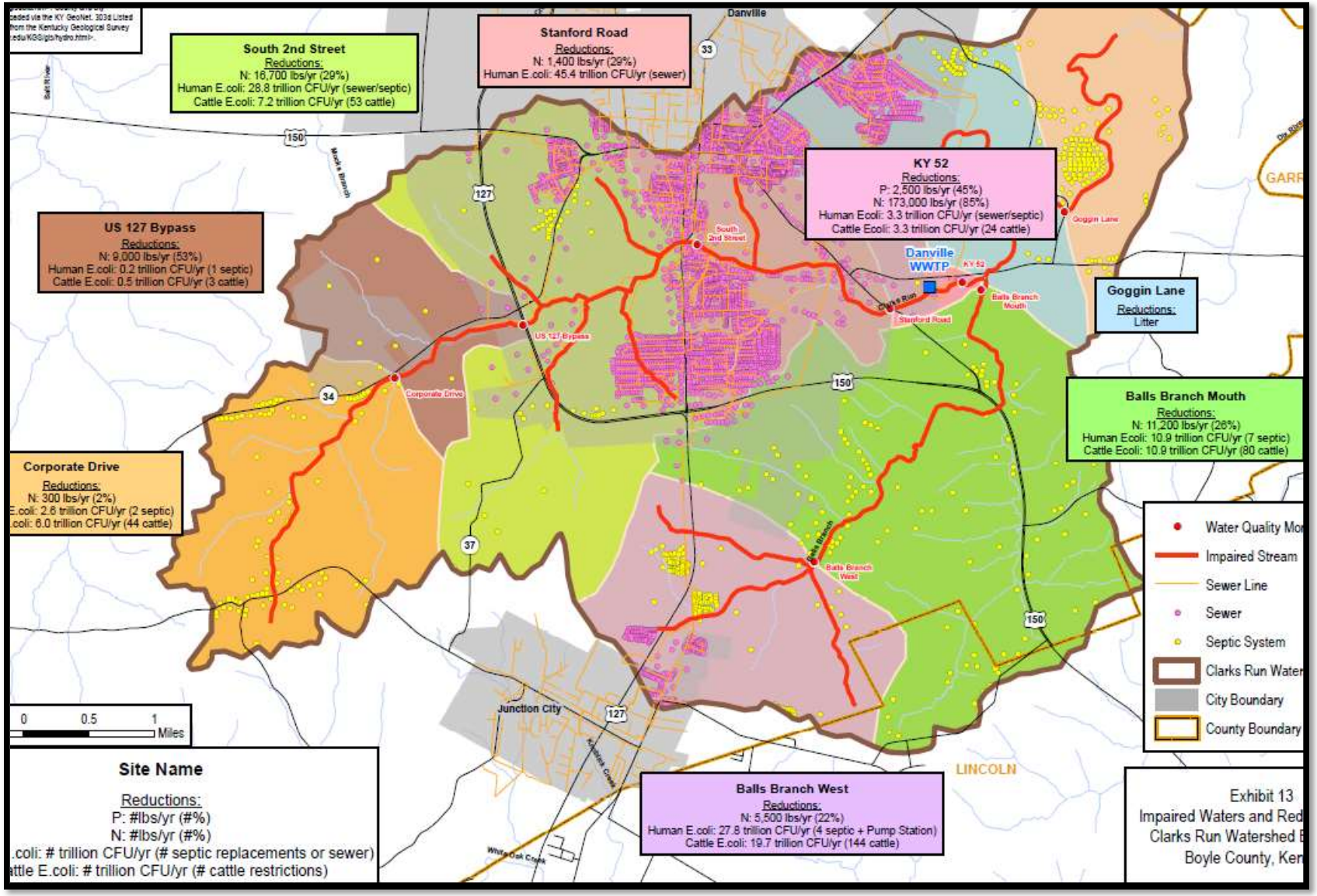
KENTUCKY ENERGY & ENVIRONMENT CABINET

BLUEGRASS GREENSOURCE

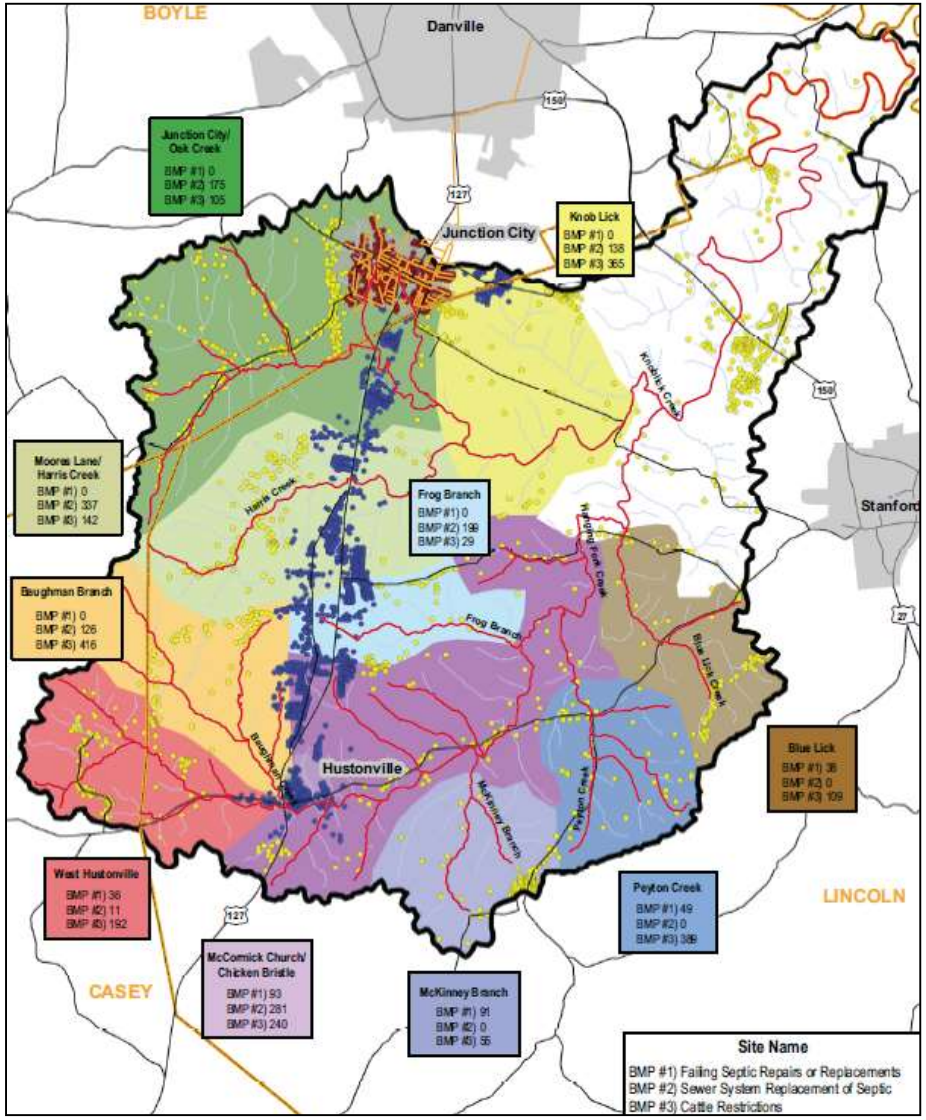
CLARKS RUN & HANGING FORK WATERSHED



CLARKS RUN


South 2nd Street
Reductions:
N: 16,700 lbs/yr (29%)
Human E.coli: 28.8 trillion CFU/yr (sewer/septic)
Cattle E.coli: 7.2 trillion CFU/yr (53 cattle)
Stanford Road
Reductions:
N: 1,400 lbs/yr (29%)
Human E.coli: 45.4 trillion CFU/yr (sewer)
KY 52
Reductions:
P: 2,500 lbs/yr (45%)
N: 173,000 lbs/yr (85%)
Human Ecoli: 3.3 trillion CFU/yr (sewer/septic)
Cattle Ecoli: 3.3 trillion CFU/yr (24 cattle)
US 127 Bypass
Reductions:
N: 9,000 lbs/yr (53%)
Human E.coli: 0.2 trillion CFU/yr (1 septic)
Cattle E.coli: 0.5 trillion CFU/yr (3 cattle)
Goggin Lane
Reductions:
Litter
Balls Branch Mouth
Reductions:
N: 11,200 lbs/yr (26%)
Human Ecoli: 10.9 trillion CFU/yr (7 septic)
Cattle Ecoli: 10.9 trillion CFU/yr (80 cattle)
Corporate Drive
Reductions:
N: 300 lbs/yr (2%)
E.coli: 2.6 trillion CFU/yr (2 septic)
.coli: 6.0 trillion CFU/yr (44 cattle)
Balls Branch West
Reductions:
N: 5,500 lbs/yr (22%)
Human E.coli: 27.8 trillion CFU/yr (4 septic + Pump Station)
Cattle E.coli: 19.7 trillion CFU/yr (144 cattle)
Danville
WWTP
Junction City
LINCOLN
Water Quality Mon
Impaired Stream
Sewer Line
Sewer
Septic System
Clarks Run Water
City Boundary
County Boundary
0 0.5 1 Miles
Site Name
Reductions:
P: #lbs/yr (#%)
N: #lbs/yr (#%)
.coli: # trillion CFU/yr (# septic replacements or sewer)
ttle E.coli: # trillion CFU/yr (# cattle restrictions)
Exhibit 13
Impaired Waters and Red
Clarks Run Watershed E
Boyle County, Ken

HANGING FORK



RECOMMENDATIONS

- Reduce human bacteria inputs from septic tanks and sewer leaks
- **Identify and replace failing and improperly maintained septic systems and straight pipes**

RECOMMENDATIONS

- Reduce pollution from livestock waste
- **Restrict agriculture grazing from the riparian zone and install streamside buffers and fencing to reduce fecal input from stormwater runoff**

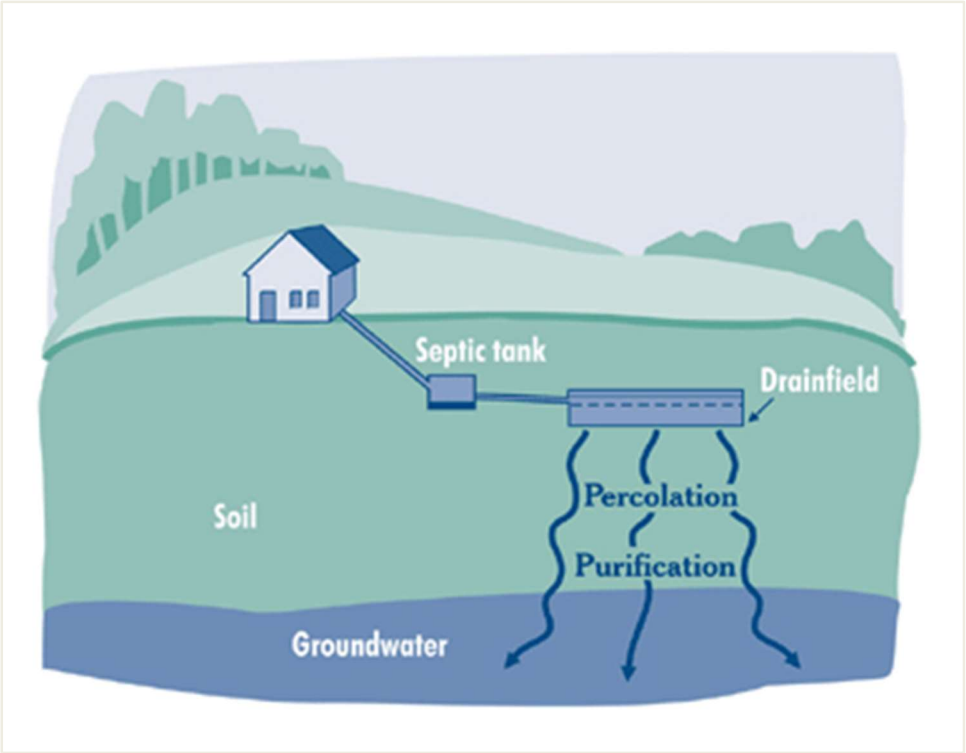
319 WATER QUALITY GRANT

- Administered through the KY Division of Water
- Implementation of portions of the Clarks Run and Hanging Fork Watershed Based Plans
- Objectives:
  - ✓ Implement practices to reduce human and livestock fecal inputs and address high pathogen and nutrient levels
  - ✓ Increase riparian buffer width
  - ✓ Increase knowledge of water quality issues for local citizens, officials, and students

SEPTIC PUMPOUT & REPAIR PROGRAM

SEPTIC WORKSHOPS:

- Education on septic system function
- Instruction on how to properly maintain septic systems
- Information and applications for financial assistance



SEPTIC SYSTEM FUNDING ASSISTANCE

APPLICATIONS AVAILABLE FOR:

- FREE septic tank pumpout
  - ✓ Includes riser installation up to a designated amount, if necessary
- 80/20 Cost-share grants for septic system repairs
  - ✓ Solution for those with chronically failing systems or straight pipe conditions
  - ✓ Based on guidance from the County Health Department

SEPTIC CARE WORKSHOP SUMMARY

- Workshops were held once a year in Boyle and Lincoln Co from 2018-2020 with **100** attendees across the focus watersheds

Workshop Date	County	No. Attendees	Pumpout Applications	Repair Applications
4/21/2018	Boyle	18	5	3
4/24/2018	Lincoln	7	3	1
2/26/2019	Boyle	10	3	1
3/12/2019	Lincoln	16	9	6
3/03/2020	Boyle	28	13	5
3/16/2020	Lincoln	21	7	4
Total		100	**40**	**20**
Total Applications Received =		**60**		

SEPTIC CARE WORKSHOPS

March 2020,
Boyle Co

March 2019,
Lincoln Co

SEPTIC PROGRAM PROGRESS

	Completed Septic Care Projects from 2018-2019 Applications	Septic Care Projects from 2020 Applications	**Total Clarks Run & Hanging Fork Projects to Date**
Pumpouts	13	17	**30**
Septic Repairs	5	4	**9**

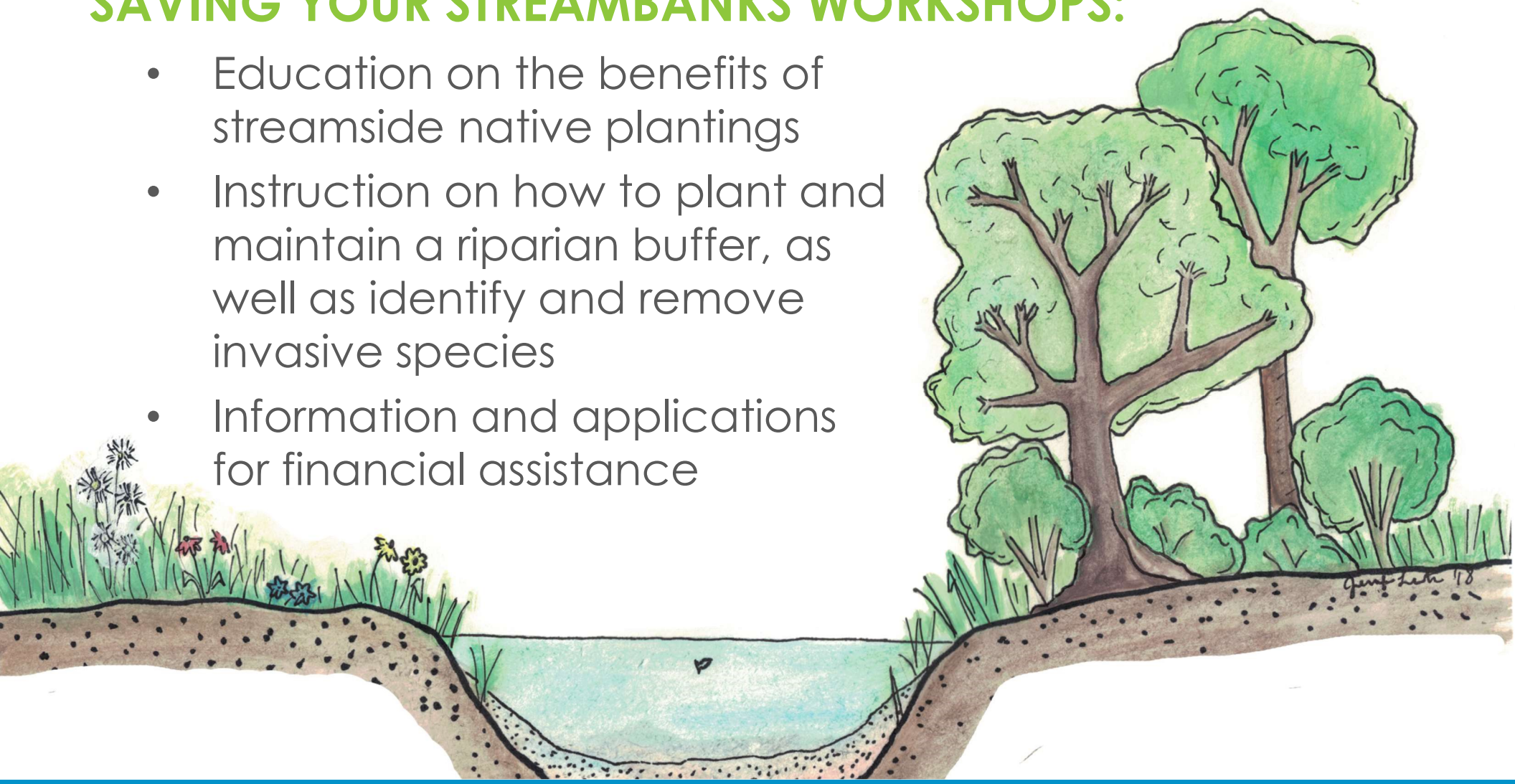
2020 Septic Project Update:

- 5 of the 17 pumpouts are completed to date
- 2 of the 4 repairs are completed to date

RIPARIAN BUFFER PROGRAM

SAVING YOUR STREAMBANKS WORKSHOPS:

- Education on the benefits of streamside native plantings
- Instruction on how to plant and maintain a riparian buffer, as well as identify and remove invasive species
- Information and applications for financial assistance



RIPARIAN BUFFER ASSISTANCE

APPLICATIONS AVAILABLE FOR:

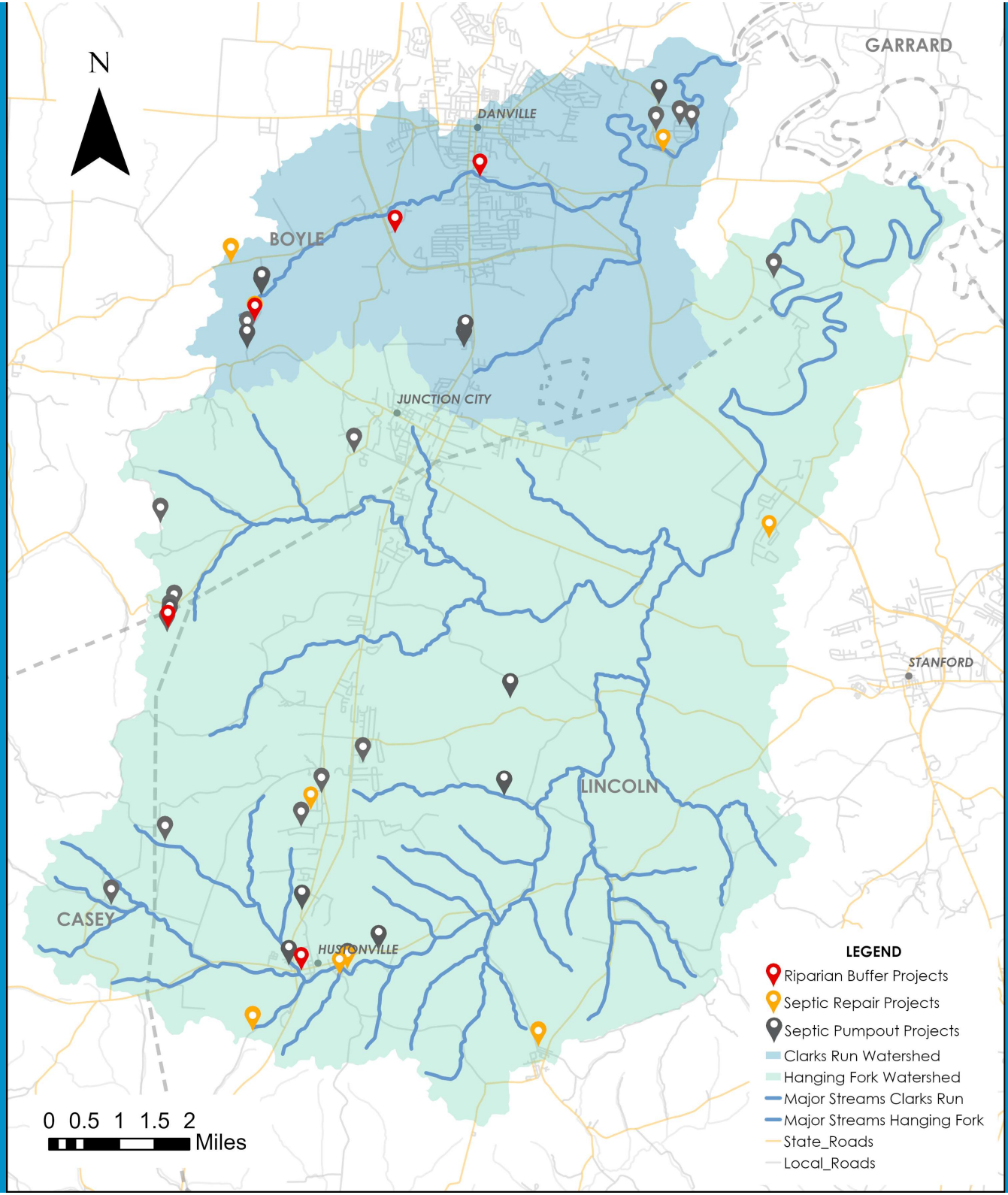
- 80/20 cost-share grants for establishing streamside buffers
  - ✓ BGGS will reimburse 80 percent of project cost, Up to $2,000
  - ✓ Applicant responsible for 20 percent of the project cost and any additional amount over the maximum reimbursable amount
  - ✓ Open to public community projects, as well as private property owners

RIPARIAN BUFFER PROJECTS

Project	County	Linear Feet Planted/ Restored
Danville Buffer along Clarks Run Trail	Boyle	300 LF
Denham Property Buffer on Oscar Johnson	Boyle	120 LF
Hustonville Ruritan Park Buffer Project	Lincoln	225 LF
Lawson Property Buffer on Alum Springs Cross Pike	Boyle	200 LF
Wilderness Trace Environmental Buffer	Boyle	300 LF

Clarks Run and Hanging Fork

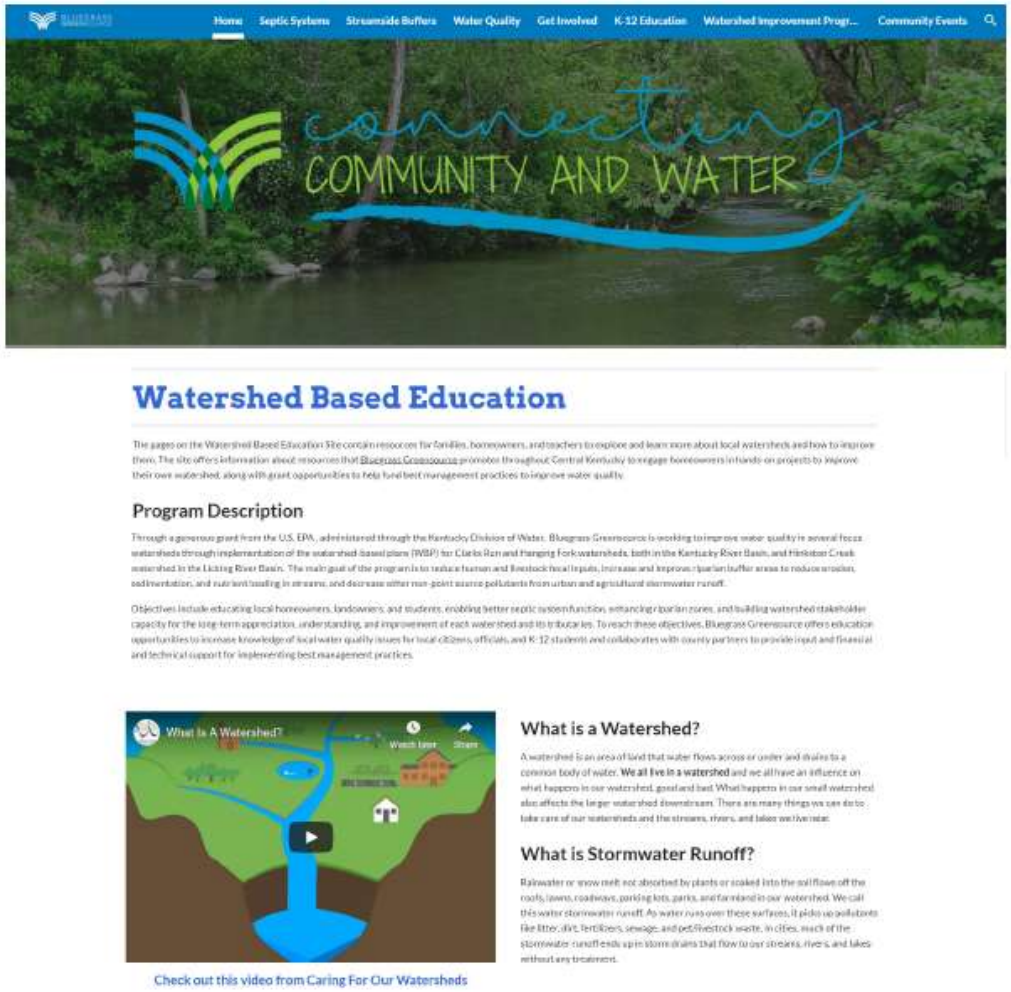
BMP Implementation Map



WATERSHED BASED EDUCATION

CONNECTING COMMUNITY AND WATER

- Watershed Based Education for Adults and Students
  - Explore watershed and water quality topics
  - learn more ways to get involved in your local watershed
  - find student activities you can do at home
- Connecting families, students, and communities to their local waterways with a comprehensive tool for learning and fun



CONNECTING COMMUNITY AND WATER

Introduction to Water Quality

Water quality describes the condition of the water, including chemical, physical, and biological characteristics, with respect to its suitability for a particular purpose or use such as drinking, swimming, or supporting aquatic life. Poor water quality can pose a health risk for people, as well as for ecosystems. In the following videos, Ms. Rachel walks us through some of the physical (e.g. color/smell) and chemical (e.g. pH and dissolved oxygen) characteristics that teach us more about the water quality or health of a stream.

In Part 2, Ms. Rachel walks us through a quick biological assessment of Mill Creek in Lexington, KY. Organisms called Aquatic Macroinvertebrates can teach us even more about the health of our waterways. Let's break down the name: aquatic=lives in water; macro=can be seen without a microscope; invertebrate=lacks an internal skeleton. These creatures are an important part of the food chain and are categorized as sensitive to pollution, moderately tolerant to pollution, and tolerant to pollution. Their abundance or lack thereof in a waterbody can teach us a lot about the environmental health of a creek or stream.

Water Quality Testing

Macroinvertebrates

Useful Water Quality Testing Tools:

Clean Stream Kit - Check out a water quality testing kit for free from Bluegrass Greensource's Resource Library

Breaking Down the Parameters - A great tool to explore what all these water quality testing parameters really mean (see below for some examples)

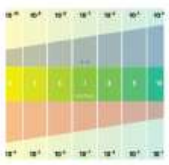
Habitat Assessment Form - Use this form to track your stream habitat assessment

Habitat Assessment Reference Card - Use this key to help with making visual, odor and other observations

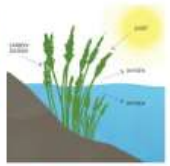
Biological Assessment Field Data Sheet - Use this form to track your stream biological assessment (See Macro ID Key below)

How to use the Macroinvertebrates.org website - Check out this video tutorial for your Macro IDs

Biotic Index Data Sheet - Print this sheet or use the online calculator from the Leak Pack Network



pH



Dissolved Oxygen

Conductivity

Temperature

Use this macroinvertebrate ID Key to help you identify the type of macros collected in your own biological assessment.

Kentucky Water Health Portal:

Explore the Kentucky Water Health Portal by zooming to an area of concern or by using the search bars along the top of the map. This map shows stream impairments of tested waterways across the state. Red means a stream was tested and does not support a designated use, such as swimming or aquatic habitat. Click on the red, yellow, and green stretches of streams to learn more!

Click the map to the right to be redirected to the KY Water Health Portal.

2016 Integrated Report - Summary of water quality conditions in the state prepared by the Kentucky Division of Water.

CONNECTING COMMUNITY AND WATER

Student Activity for Septic Systems:

Make a Model Septic System

This activity lets students demonstrate the basic concepts of how a septic tank and leach field work. It can be used as a basic introduction to where water goes after being flushed or as a beginning activity for a series of more in-depth activities.

*The **Septic Tank** holds household wastewater, allowing bacterial action to separate sewage into three distinct layers in the tank: clarified effluent, settled sludge, and floating scum. The tank removes solids by holding the wastewater in the tank for 24-72 hours, allowing heavier solids to settle as sludge and the lighter particles to form scum at the top.*

Materials Needed:

- 2 clear glasses or 2 glass jars
- sand
- paper towel
- potting soil
- food coloring
- flexible straw
- tiny pieces of paper
- masking tape
- sharpie

Step 1: Label the glasses or jars.

One is the septic tank and the other is the leachfield.

Step 2: Prepair the septic tank.

Fill half the glass or jar with water, 1/4 a cup of sand, 3 drops of food coloring, and tiny pieces of shredded paper.

Step 3: Prepare the leachfield.

Add alternating layers, around two of each, of sand and soil. Divide each layer with a piece of the paper towel. Gently pour one cup of water over the leach field.

Step 4: Set up the model.

Find a book, a game or something to elevate the septic tank.

Step 5: Elevate the Septic Tank

Once you are set up, shake or stir the septic tank and allow it to settle.

Step 6: Prepare the leach field.

Set up the leachfield directly below the septic tank. Fill the straw with water, holding the water inside at both ends.

Student Activity for Riparian Buffers:

Does it Meander?

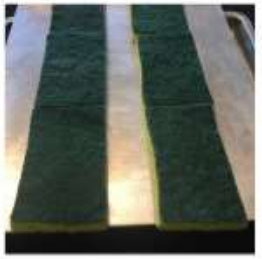
This activity lets students demonstrate the greater water retention capacity of a healthy riparian system. Healthy streams generally have a shallow gradient and numerous meanders. Water slowly moves along, allowing it to soak deep into the banks, which act like giant sponges. They release water during periods of low waterflow, providing a buffer to the riparian dependant plants and animals.

Materials:

- Measuring cup
- several sponges
- a cookie sheet
- a pan wide enough to hold the edge of the cookie sheet
- water

Again, gradually pour a cup of water down the trough and measure the amount that makes it to the pan. This time there should be much less water in the pan, because the healthy riparian system has soaked up water into its banks. You can further experiment with the angle of the cookie sheet to simulate the effects of different stream gradients.

Step 1: Gather the materials.



Step 2: Simulate an unhealthy riparian area by laying dry sponges end to end in two rows the length of the cookie sheet, with about 5 cm of space between the rows.

Step 3: Gradually pour a cup of water down the trough between the sponge rows. Some water should seep into the sponges, but most will wash into the pan.

Step 4: Measure how much water is in the pan.

Step 5: Now lay the pre-trimmed dry sponges in two parallel rows, but this time arrange them in a series of several curves. (Cut and piece wedges of sponge beforehand to create solid banks.)

Step 6: Again, gradually pour a cup of water down the trough and measure the amount that makes it to the pan. This time there should be much less water in the pan, because the healthy riparian system has soaked up water into its banks.

CONNECTING COMMUNITY AND WATER

Water Quality Education

Student Water Quality Packets Available!

Water Quality Packets are available for students in Bourbon, Montgomery, and Nicholas counties in the Hinkston Creek watershed, and Boyle and Lincoln counties in the Dix River watershed. Contact us to learn how your student(s) or classroom can be eligible to receive a FREE packet(s)! Water quality packets include:

- Project WET Watershed Protection Workbook
- Schoolyard Watershed Fundana Bandana
- Plant Me by the Stream Growable Bookmark
- Color Your Watershed Page and Colored Pencils
- Make a Macroinvertebrate Card and Playdough
- Watershed Activity Guide and Wax Paper
- Reusable Get to Know Your H2O bag

*Participating students and schools can meet with their assigned Environmental Educator to learn more about the Project WET workbook and participate in a Bluegrass Greensource virtual or in-person water quality lesson. OR complete all 3 of the water quality activities at the end of the Septic Systems, Riparian Buffer, and Water Quality pages on this site with a participating classroom. OR form a Watershed Heroes Team and agree to complete a school or community project to qualify to receive these packets. **These are available on a first come, first serve basis.** Contact us to learn more:*

Kara Sayles, Environmental Educator for Bourbon, Montgomery and Nicholas Counties, kara@bggreensource.org

Deb Carlisle, Environmental Educator for Boyle and Lincoln Counties, deb@bggreensource.org

Share your Watershed Discoveries!

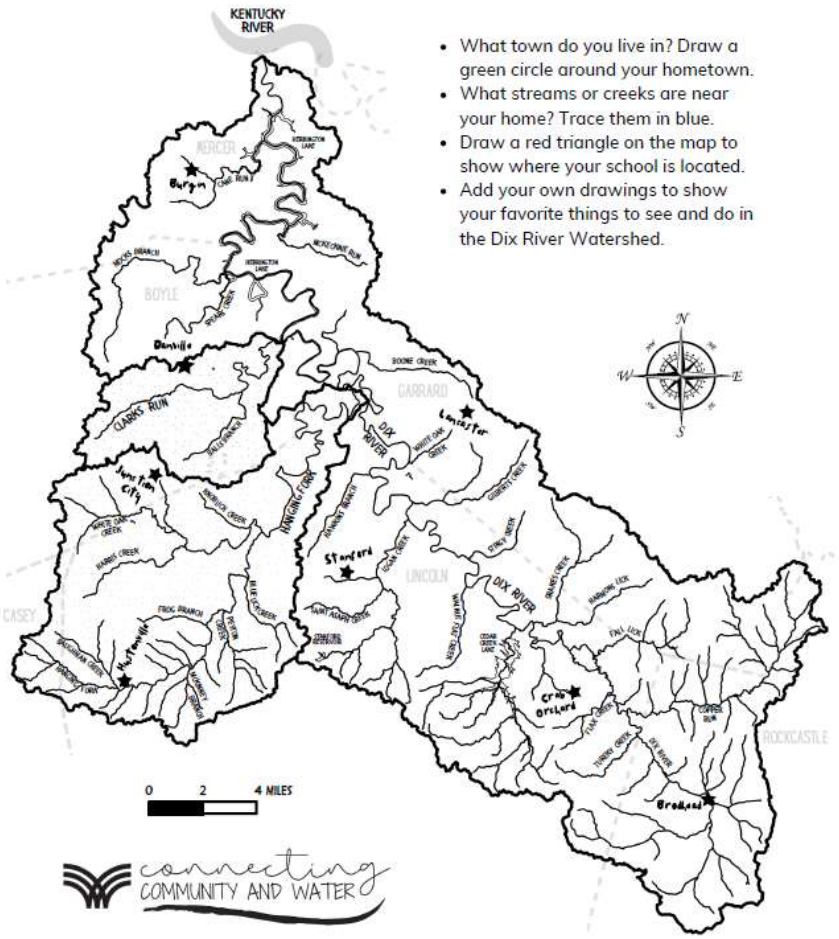
We would love to hear about the things you learned and see photos of you completing the watershed activities with family and friends. Scan the QR code or click here to upload photos of your playdough macroinvertebrate and your watershed coloring page. Show us where you planted your seed paper, and let's see those watershed fundana bandanas in action! We want to showcase your artwork on our website to help inform our communities of the importance of clean water!

Share your photos on social media with #KnowYourH2O and tag us @bggreensource!

Color Your Watershed-Download your Watershed Coloring Page:

Hinkston Creek Watershed | Dix River Watershed

COLOR THE DIX RIVER WATERSHED!



- What town do you live in? Draw a green circle around your hometown.
- What streams or creeks are near your home? Trace them in blue.
- Draw a red triangle on the map to show where your school is located.
- Add your own drawings to show your favorite things to see and do in the Dix River Watershed.

connecting COMMUNITY AND WATER

Visit bggreensource.org/watershed-improvement to learn more!

This work was funded in part by a grant from the U.S. EPA under §319(h) of the Clean Water Act.

CONNECTING COMMUNITY AND WATER

UPCOMING WORKSHOPS

Septic Care workshops and grants will be offered in **SPRING 2021**

Saving Our Streambanks workshops and grants will be offered in **JANUARY 2021**

FARM TOUR VIDEOS

FARM TOURS 2020/2021

- Working with Conservation Districts, NRCS, and local farmers to help promote Ag Conservation Practices
- Looking for interested farmers and farms
- First stop → *Stallard Family Farm* in Boyle Co – Nov 3

2021/2022 COMMUNITY GRANTS

WATER QUALITY MINI GRANTS

- BGGS approved for another 319 grant to continue watershed improvement efforts (Septic, Riparian, WQ Education, etc.)
- New in 2021/2022 → **Water Quality Mini Grants** to watershed stakeholder group participants
- 5 x $5,000 projects with 20% match
- Seed money across the watersheds to spark community wide participation and ownership of the watershed improvement program
- Ideas: riparian buffer establishment and stream bank restoration/ revegetation projects, water quality monitoring projects, stream clean-ups, urban and rural runoff retrofits, and more

QUESTIONS/CONTACT

Lindsie Nicholas, P.E.

Watershed Coordinator
Bluegrass Greensource
835 National Ave, Lexington, KY
lindsie@bggreensource.org
859-266-1572

BLUEGRASS GREENSOURCE

DANVILLE WWTP OVERVIEW AND UPDATES

-MIKE GALLOWAY-

KY RIVER BASIN UPDATES

-MALISSA MCALISTER-

DANVILLE STORMWATER PROGRAM PRIORITIES

-EARL COFFEY-

US HIGHWAY 127
PHASE II SEWER PROJECT
UPDATE

-BILL PAYNE-

PHASE TWO SANITARY SEWER PROJECT
LINCOLN COUNTY SANITATION DISTRICT
OVERVIEW MAP
MORELAND


N
100 400
0 200 800
Scale: 1" = 400'
SHEET 37
SHEET 38
SHEET 33
SHEET 34
SHEET 27
ROCK VIEW RD
SOUTH RIDGE DR
NORTH RIDGE RD
EASTGATE RD
STRAIGHT ST
DAMASCUS RD
ROMAN RD
US-127
McCORMACK CHURCH RD
SHEET 35
SHEET 43
RAINTREE DR
OAK CT
SHEET 41
SHEET 39
FMA - SHEET 50
ISAIAH LN
SHEET 42
CARMEL DR
RAINTREE CIR
SHEET 49
TIMBERLAKE DR
SHEET 36A
SHEET 36
GRIFFIN AVE
WATKINS AVE
SHEET 44
SHEET 51
SHEET 45
McCORMACK CHURCH RD


WATKINS AVENUE
GRINDER STATION
SHEET 54A
HICKORY CIR
BETH LN
SHEET 40
SHEET 11
SHEET 31
SHEET 8
ASH LN
MASTER CT
SHEET 29
BUCK RUN RD
SHEET 9
SHEET 32
ELM LOOP
SHEET 10
FMA - SHEET 48
DOE VALLEY RD
SHEET 7
SHEET 30
KY-2441
SHEET 4
SHEET 5
LINE A - SHEET 3
FMA - SHEET 47
US-127
SHEET 28
SHEET 12
JEFFRIES LANE
PUMP STATION
SHEETS 53-54
SHEET 46
SHEET 13
SHEET 6
SHEET 17
SHEET 21
AMBER LN
SHEET 14
SHEET 18
SHEET 22
JEFFRIES LN
TRUCKELS LN
SHEET 12
JEFFRIES LN
JEFFRIES LN

SHEET: 2

REVISION(S)

ENGINEERING SERVICES, INC.
P.O. BOX 204
165 FOSTER LANE
STANFORD, KY 40484
PHONE (606) 365-8362
FAX (606) 365-1097

CLIENT:
LINCOLN COUNTY
SANITATION DISTRICT
102 E. MAIN STREET
STANFORD, KY 40484

PHASE TWO SANITARY SEWER PROJECT
LINCOLN COUNTY SANITATION DISTRICT
OVERVIEW MAP
MORELAND

DATE: 04/19/2019
SCALE: 1" = 400'
DRAWN BY: MS
APPROVED BY: GOOCH
FILENAME: 18055OVER

Lincoln County Sanitation District

Frequently Asked Questions

As of October, 2020

Benefits

1. Why invest the time and money to install a sewer system in the west end of Lincoln County?
    a. Prevention of discharge from faulty septic systems will improve the water quality and the sanitation at each home.
    b. The Hustonville Elementary School is now a cleaner and safer place for students to attend since sewer service is in place. They no longer use Styrofoam plates in the lunchroom.
    c. Some reports indicate property values increase by $10,000 per site when sewer service is in place. This strengthens property resale values.
    d. If sewer is available, more businesses that need sewer (restaurants, salons, offices, etc.) will locate in western Lincoln County.
    e. Sewer use would help reduce the pollution of Hanging Fork Creek which eventually pollutes Herrington Lake-- the source of our drinking water.
2. Will sewer be less expensive over the long run than septic tank and lateral line service?
    a. Analysts advise that while a one-time tap on and installation for sewer is significant, the elimination of septic tank and septic line repairs or replacement is a cost savings and enhances property values for resale or financing.

Origination

1. Why is sewer service being considered for the West End of Lincoln County?
    a. A survey conducted by Third Rock Consultants in 2006-07 identified high levels of E. coli bacteria in the Hanging Fork Creek watershed with failing septic systems and straight pipes to blame. 75-80% of these E. coli bacteria were human in origin.
2. Who will receive the benefit of this sewer?
    a. About 1,500 customers south of Junction City to Hustonville running parallel with US 127 will eventually be served.
3. Why is this project being done in phases?
    a. Funding is a key factor. Loans and grants have been obtained to pay for the construction.

Oversight

1. What is the role of Lincoln County Fiscal Court in funding and oversight?
    a. The Court in April 2011 formed the Sanitation District to figure out the most feasible way to make sewer a reality for the fastest growing end of the county. The Fiscal court has not issued any bonds for this project and has no liability for the financial viability of this project. The county gave the District $20,000 for startup funds.
2. Is there a Board to oversee the project? Who are the members of the Board? Are they compensated?
    a. A five person board was appointed by the Judge Executive. The current members are Bill Payne, Wayne Galloway, Sheree Gilliam, Larry Dunn and Joseph Hafley. The Board receives no compensation for their time or services.
3. Who are the third party service providers?
    a. AGE Engineering provides the engineering services. Jonathan Baker is the attorney for the Board.
4. What is the role of BGADD?
    a. Bluegrass Area Development District has assisted in loan and grant applications.
5. Waste Treatment
    a. The City of Danville has agreed to treat the sewage in accordance to an executed agreement that specifies the services and the costs.

Users

1. How many households/customers are projected for this project?
    a. About 600 in Phase I and 365 in Phase II.
2. Is it mandatory that I hook on?
    a. Yes if tap service is available as required by Lincoln County Ordinance.
3. Will I have to pay for getting the line from my house to the sewer hook on point?
    a. Yes to a licensed plumber of your choice.
    b. If you already have a tap available, there will be a $100 inspection fee along with an application for service form.
4. Are there any agencies that can assist low income residents in hooking on?
    a. Possibly through a USDA Rural Development program
5. How much will I be charged for a family of 4 using 3,000 gallons of water?
    a. Based on the budget submitted to USDA, the sewer bill would be approximately $50 for 3,000 gallons of water usage.
6. Who will handle the billing?
    a. The City of Hustonville will handle the sewer billing along with the current water billing.

Water Quality Justification for a Hustonville Sewer Extension:

- A cooperative effort among the local Dix River Watershed Council, the Kentucky Division of Water and Third Rock Consultants resulted in the 2009 completion of a Watershed Plan for improvement of the Hanging Fork Watershed.

- The Watershed Plan is based on intensive water quality sampling at 14 Hanging Fork sites between 2006 and 2007, and further sampling for pathogens at 54 sites in 2007-08.

- Almost half of the waterways (or 104 of 234 stream miles) in the Hanging Fork watershed were shown to be unsafe for human wading/swimming use after comparing the sampling results to the Kentucky Division of Water's water quality standard.

- Sampling results indicated that concentrations of E. coli often ranged from ten to 1,000 times greater than the statewide limit for safe wading/swimming. At their highest levels, some locations in the Hanging Fork watershed displayed E. coli levels similar to those found in the inflow to a sewage treatment plant.

- Overall, E. coli concentrations were much higher in the southern portion of the watershed, averaging nearly double those found in the northern portion. This area includes Hustonville, Chicken Bristle, McKinney and McCormack Church.

- Despite the dominant agricultural land use of the watershed, human inputs were overwhelmingly shown to be the source of fecal inputs at the ten sites at which DNA testing was conducted. Generally, human inputs were found to contribute 75 percent of the fecal bacteria in the watershed. (Cattle were identified as the second most abundant source.)

- The most significant human health impact in Hanging Fork is human fecal pollution of the watershed.

- Septic system failure in this rural watershed is identified as main cause of this water quality problem. Of the approximately 2,700 septic systems in the watershed, it is estimated that 37% are failing.

- The 2009 Watershed Plan's recommendations for reducing pathogen levels in the Hanging Fork Watershed are:
  - Replacement of septic systems with sewer collection and treatment
  - Rehabilitation of failing septic systems
  - Restriction of cattle from waterways

Thank you!

CREEC UPDATES

-PRESTON MILES-

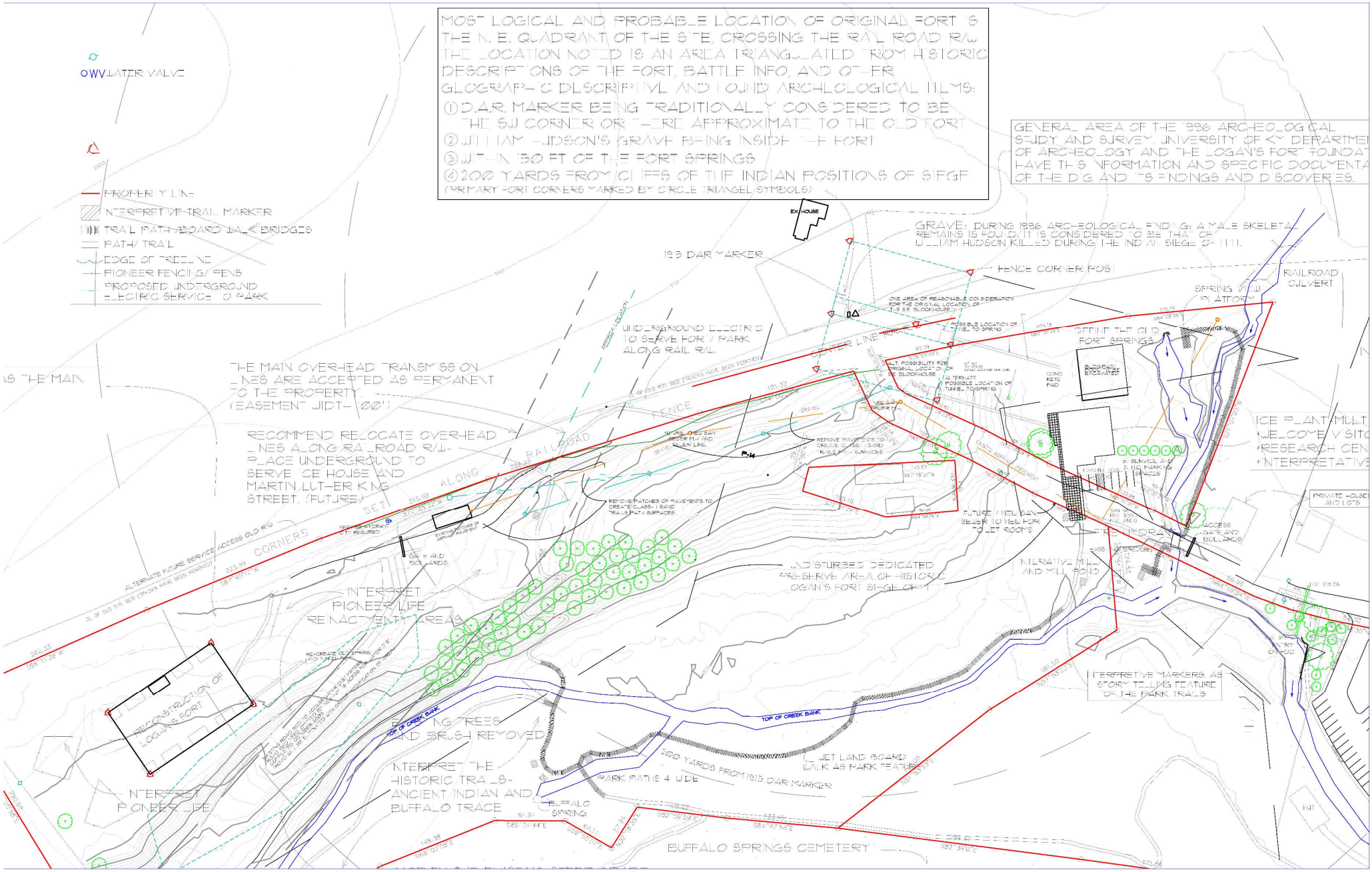
CENTRE ENVIRONMENTAL ASSOCIATION PROJECTS

-BRETT WERNER-

LOGAN'S FORT TRAIL UPDATE

-JANE VANHOOK-

LOGAN'S FORT PARK MASTER PLAN



BREAKOUT SESSIONS

MESSAGE BOX ACTIVITY

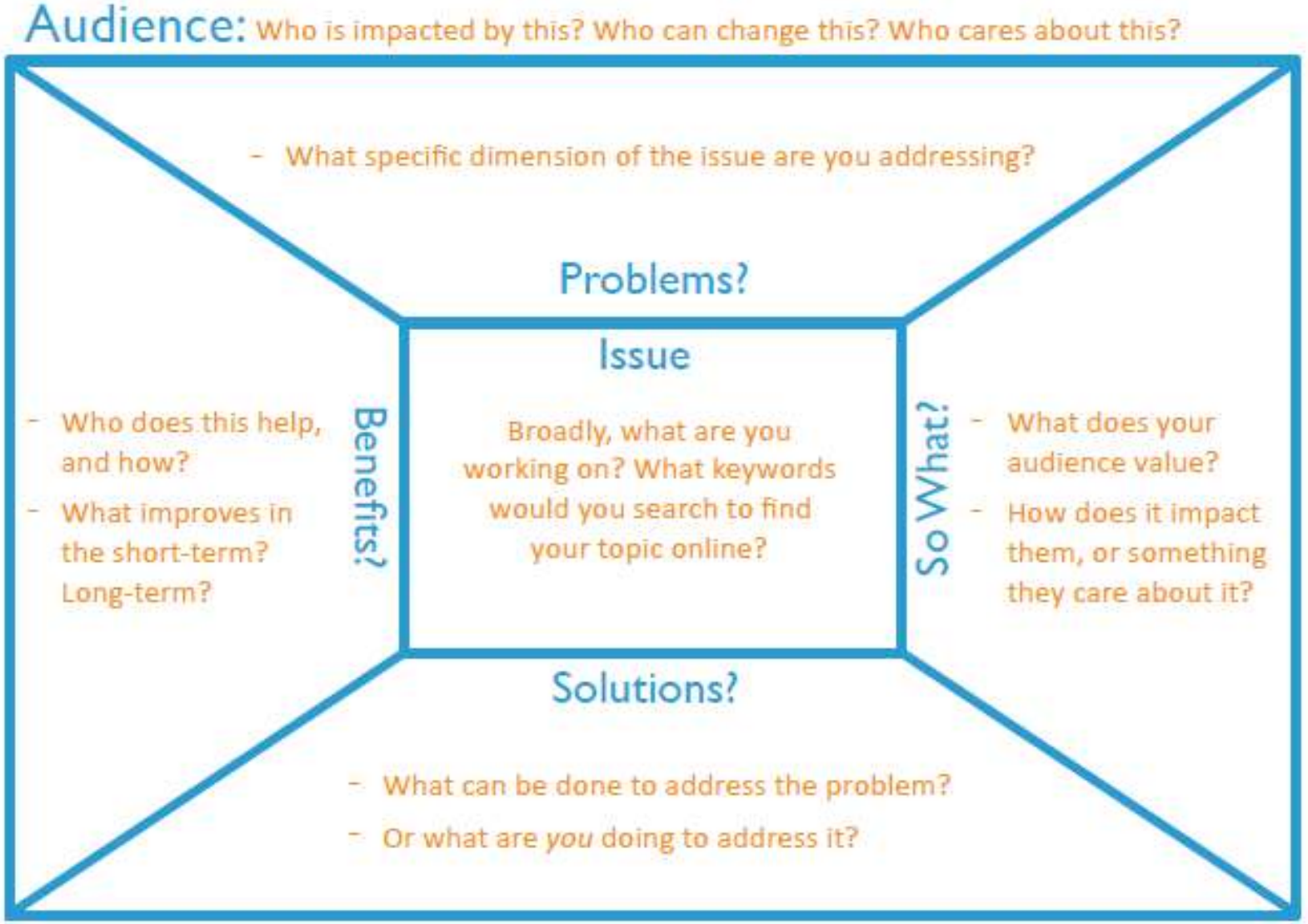
COMPASS™ MESSAGE BOX

- A tool created to help scientists better communicate their findings and research
- **We can use as a tool to think through our different messages and how they communicate the particular issues we want to focus on in the watershed**
- Look at:

❑ Target Audience
❑ Issue
❑ Problem
❑ So What
❑ Benefits
❑ Solutions

COMPASS

HOW IT WORKS



HOW IT WORKS

COMPASS™ MESSAGE BOX

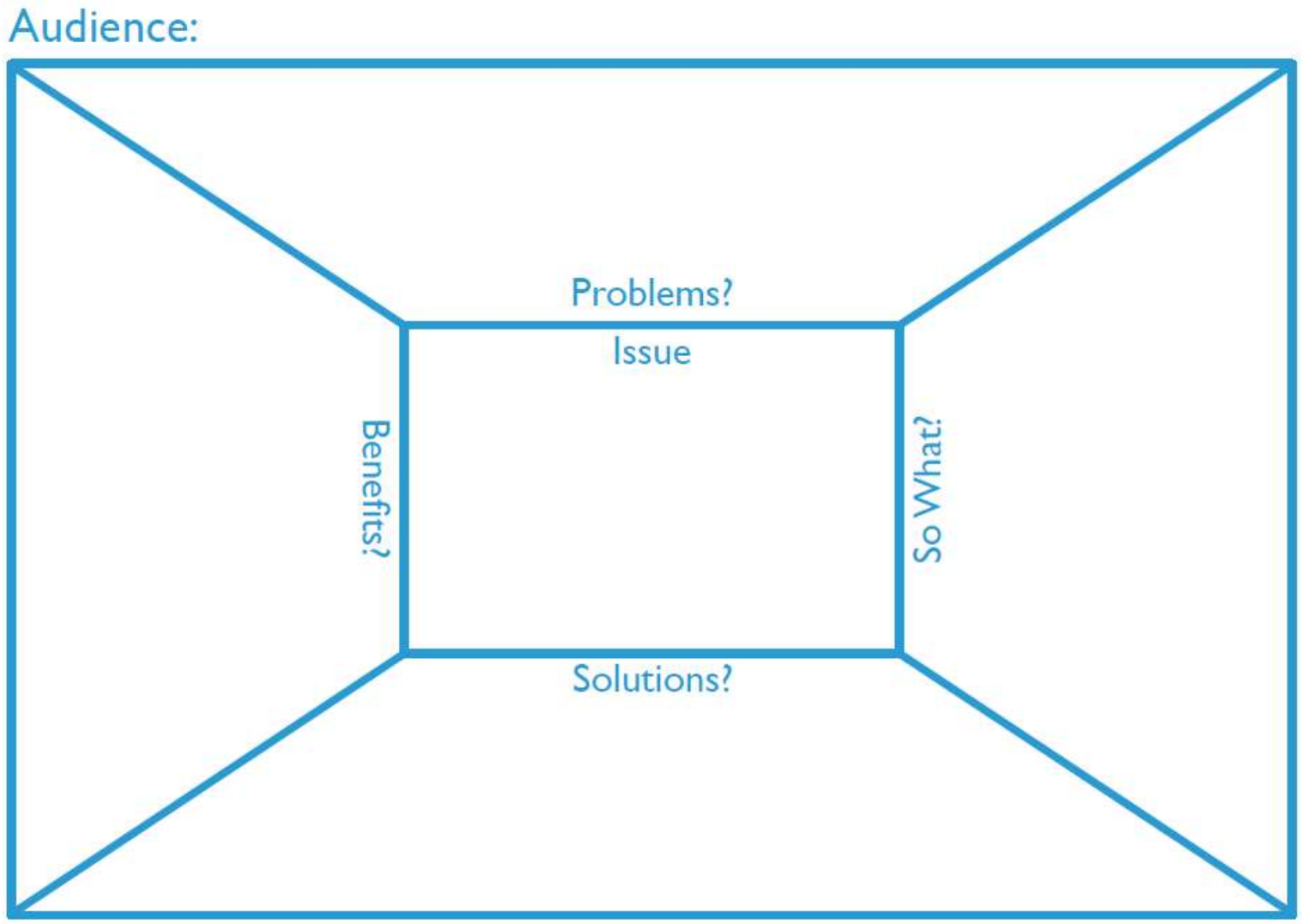
- The goal is to identify the information that is critical to your audience -***what really matters to them-*** and share that
- Identify your audience first
- After that, you can start in any section the makes sense to you, and work from there
- By the end you should only have 2-5 lines per section
    - ➢ with the exception of the issues and target audience section (a few key words)

BREAKOUT SESSIONS

COMPASS™ MESSAGE BOX FOR DIX RIVER WATERSHED

- Breakout into three groups spend 15 minutes working on a Message Box draft for the topics below:
  - ❑ Encouraging streamside buffers
  - ❑ Generating new interest in waterways and related projects
  - ❑ Increasing Watershed Watch participation, volunteer samplers
- We will come back at the end and briefly share

COMPASS™ MESSAGE BOX



THANK YOU

- Next Meeting – TBD
- Start thinking about the stakeholder led WQ Mini Grants
- Closing thoughts/comments

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