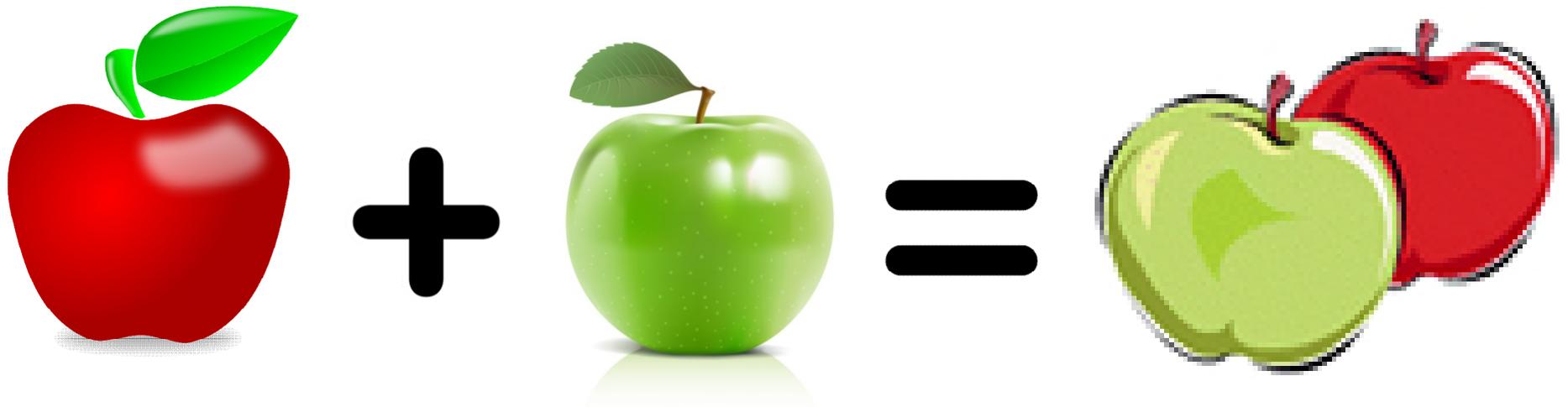


Oklahoma Kill Response Management Team (OKRMT): A Collaborative Response to Managing Water Quality in Oklahoma

Ferrella March
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Oklahoma Department of Environmental Quality

10th National Monitoring Conference
Tampa, Florida
May 4, 2016

“If you have an apple and I have an apple and we exchange these apples then you and I will still each have one apple. But if you have an idea and I have an idea and we exchange these ideas, then each of us will have two ideas.” - *George Bernard Shaw*



Objectives

- Mission of the Oklahoma Kill Response Management Team (OKRMT)
- Importance of collaborative technique to resolve complex environmental issues
- Communication flow
- Current collaborative projects

OKRMT Mission statement

The mission of OKRMT is to facilitate **communication** and **collaboration** between government entities regarding fish kills, to provide a framework for coordinated, consistent, and effective fish kill*response.

*May include other wildlife kills

Photo by Ferrella March, ODEQ



The OKRMT Collaborative Team



GW24 DAP
CHEROKEE NATION®



OKLAHOMA
CONSERVATION
COMMISSION



US Army Corps
of Engineers
Tulsa District



**Logos courtesy of respective agencies*

collaborate

verb | col·lab·o·rate | \kə-'la-bə-,rāt\

Simple Definition of COLLABORATE

Popularity: Top 1% of lookups

: to work with another person or group in order to achieve or do something

: to give help to an enemy who has invaded your country during a war

Examples: COLLABORATE in a sentence ▼

Editor's note: Did You Know? ▼

Full Definition of COLLABORATE

col·lab·o·rat·ed col·lab·o·rat·ing

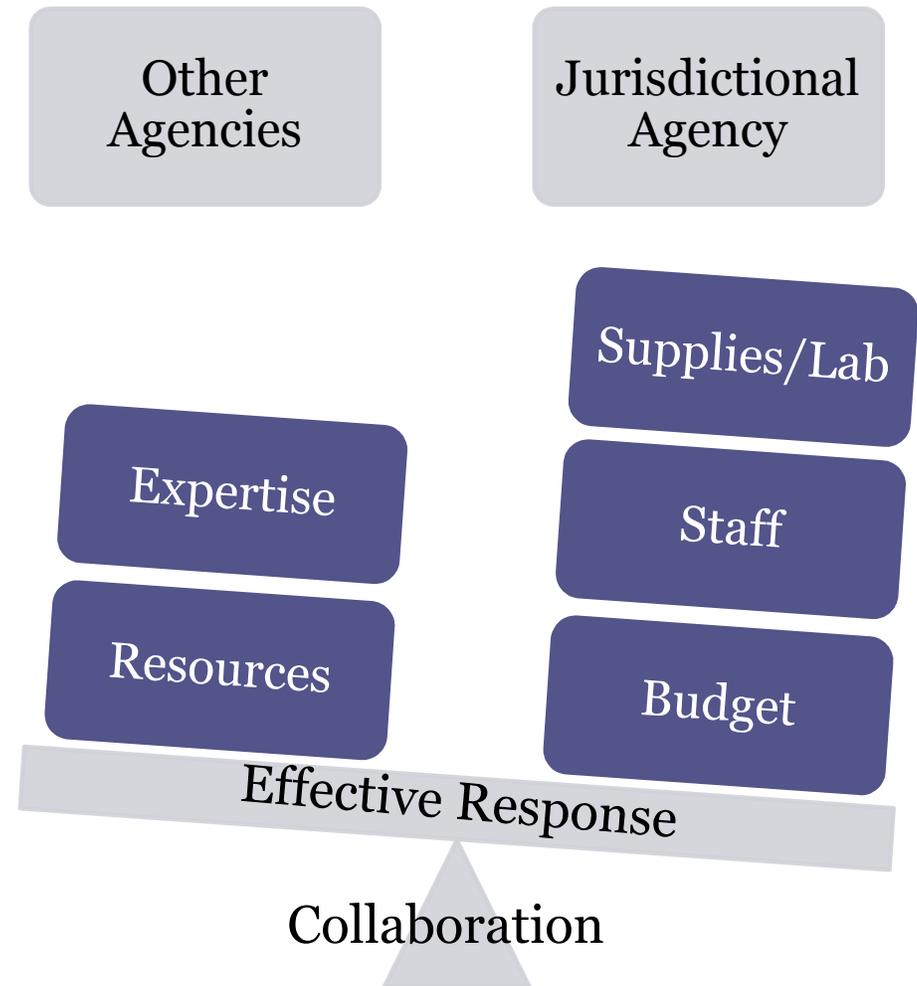
intransitive verb

- 1 : to work jointly with others or together especially in an intellectual endeavor
- 2 : to cooperate with or willingly assist an enemy of one's country and especially an occupying force
- 3 : to cooperate with an agency or instrumentality with which one is not immediately connected

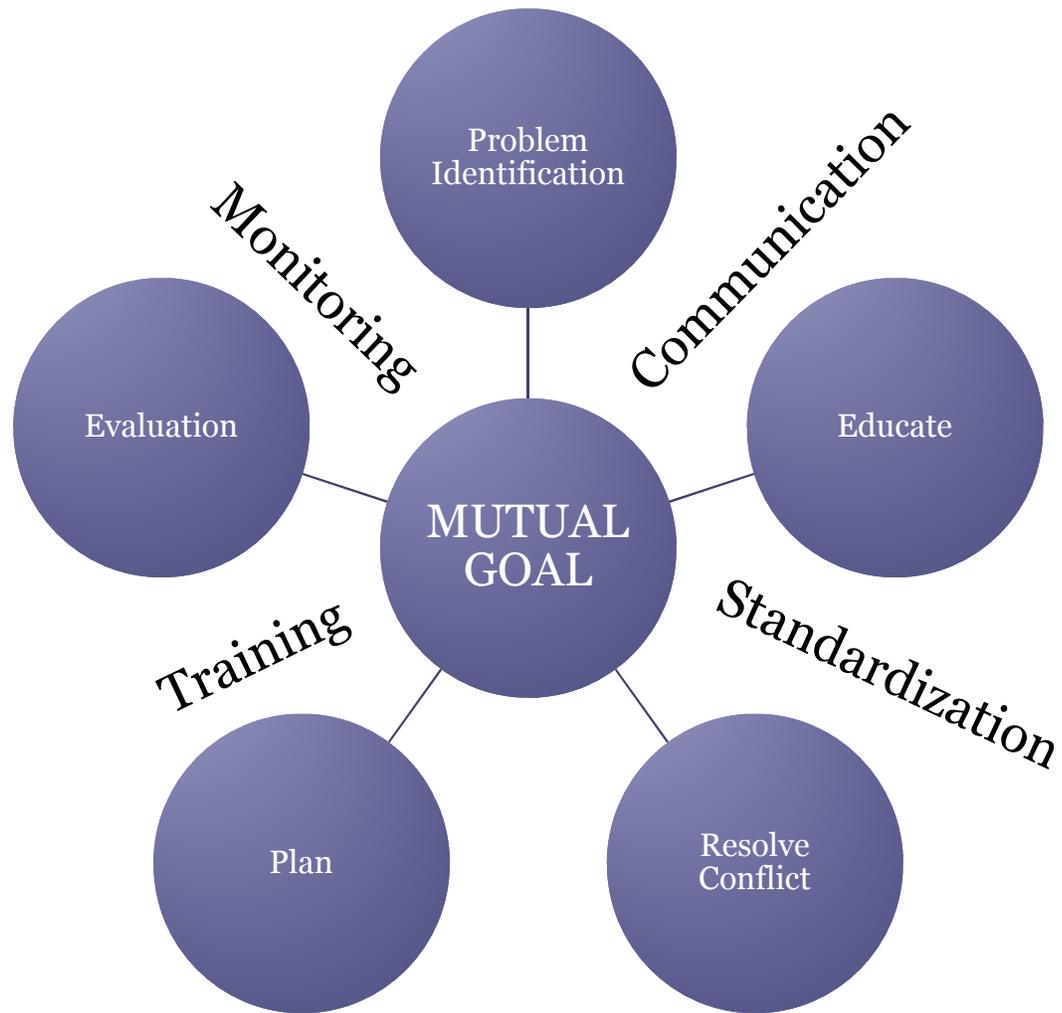
Collaboration:

Why a Consolidated Approach?

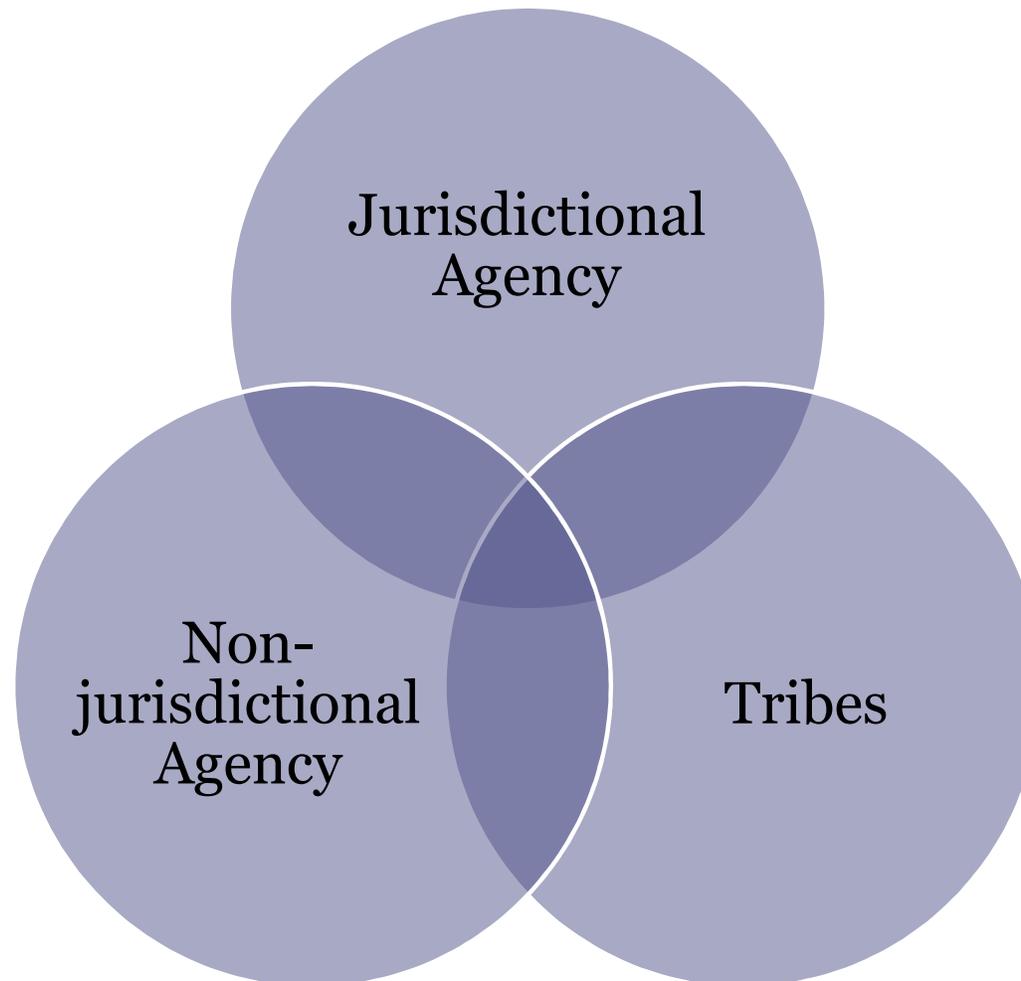
- In OK, the Environmental Quality Act (27A O.S. § 1-1-102) requires coordination and cooperation
- Results in more organized responses in a timely manner
- Allows for better communication between front line staff and office staff
- Opportunity for participating agencies to share expertise and resources
- Shared training opportunities
- Standardization of fish kill reporting



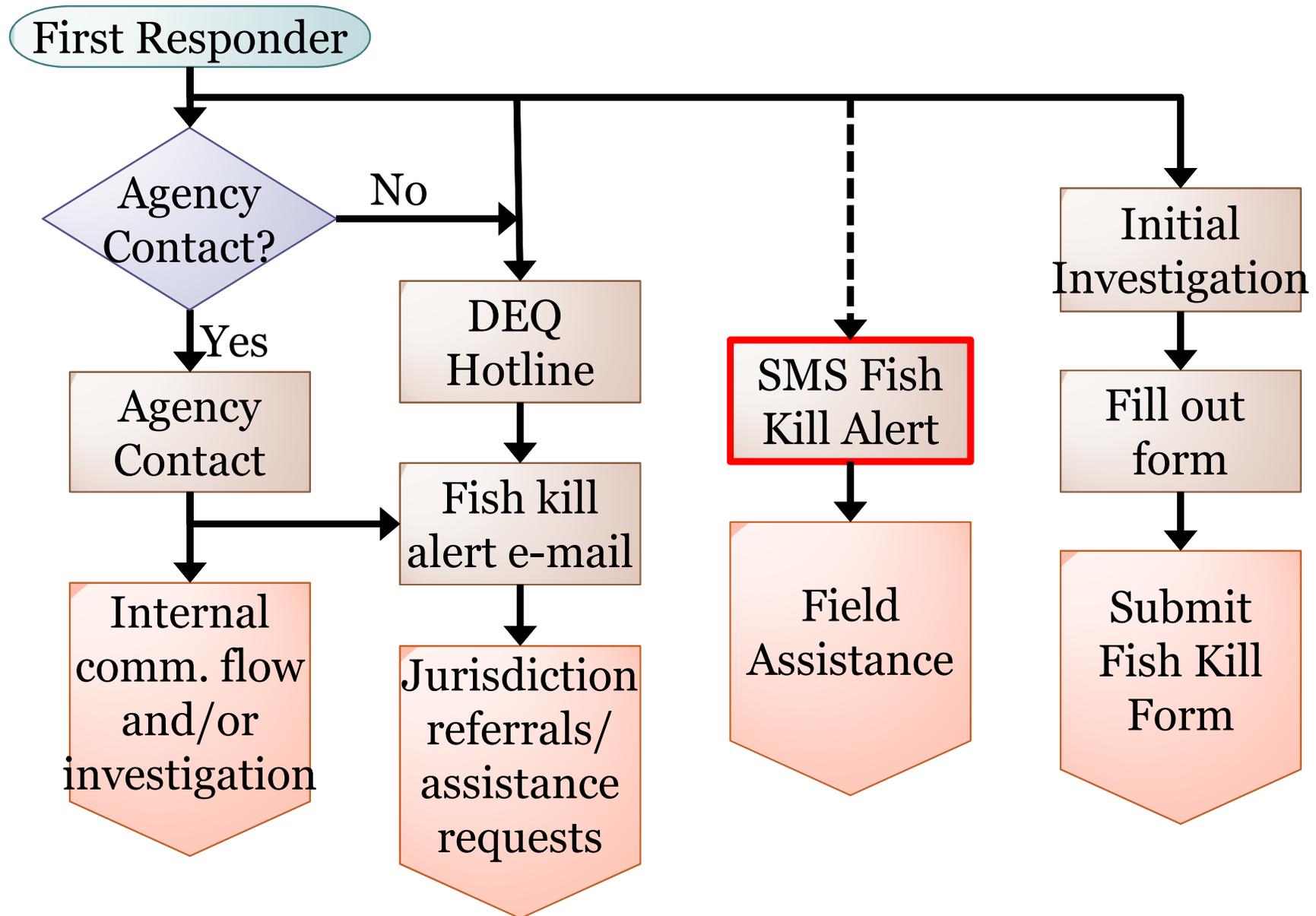
Effective Collaborative Strategies



OKRMT Communication Flow



Interagency Communication Flow





ODWC C Tackett
Nope.



OWRB S Blocker
My crew is in far western OK this week so we aren't in the area.



OWRB M Porter
Is the ECLS person for Oklahoma County responding? Brent Wilson is available if you need someone.

Apr 27, 10:04am



DEQ F March
Curtis, Go ahead and call into hotline. Brian is going to follow up with you and will follow up when he gets into office.



OWRB M Porter
Do we need Brent?



ODWC C Tackett
Ok. I will call in to hotline now. Also, KOCO has already contacted me and wants to do a story on it.

Apr 27, 10:25am



DEQ F March
Make sure you let deq hotline person know. I will give our PIO a heads up.



ODWC C Tackett
Ok
ODWC Tackett: I called it into hotline and gave them all the information that I had. Yes, please have Brian give me a call on my cell when he gets in.



Members 39

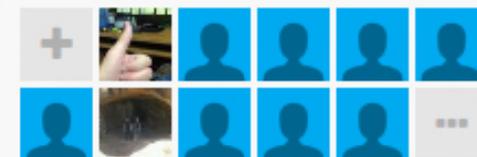


Photo Gallery

Popular

Calendar

Settings

Fish Kill Training for First Responders

- Understand role as a first responder
- Understand the communication flow
- Personal and team safety
- How to recognize a fish kill
- Quantify extent of a fish kill
- Ability to make quality observations
- Recognize different types of fish
- Collect information and data

Fish Kill Training for First Responders
April 7, 2015
Wes Watkins Center Stillwater, OK

Photo by Ferrella March, ODEQ



Continuous Monitoring of *in situ* Water Quality, Salt Fork of the Arkansas River, Oklahoma

- **Monitoring Objective 1: Quantify local, diurnal, and seasonal effects on in-situ DO, pH and specific conductivity(SpC) at three stations along the Salt Fork of the Arkansas River.**
- **Monitoring Objective 2: Quantify spatial variation in DO, pH and SpC along the Salt Fork of the Arkansas River.**
- **Monitoring Objective 3: Develop a fish kill response plan based on instantaneous levels of conductivity and potentially DO.**

**Slide courtesy of Lance Phillips (OWRB)
Photo by Ferrella March, ODEQ*

Monitoring Plan

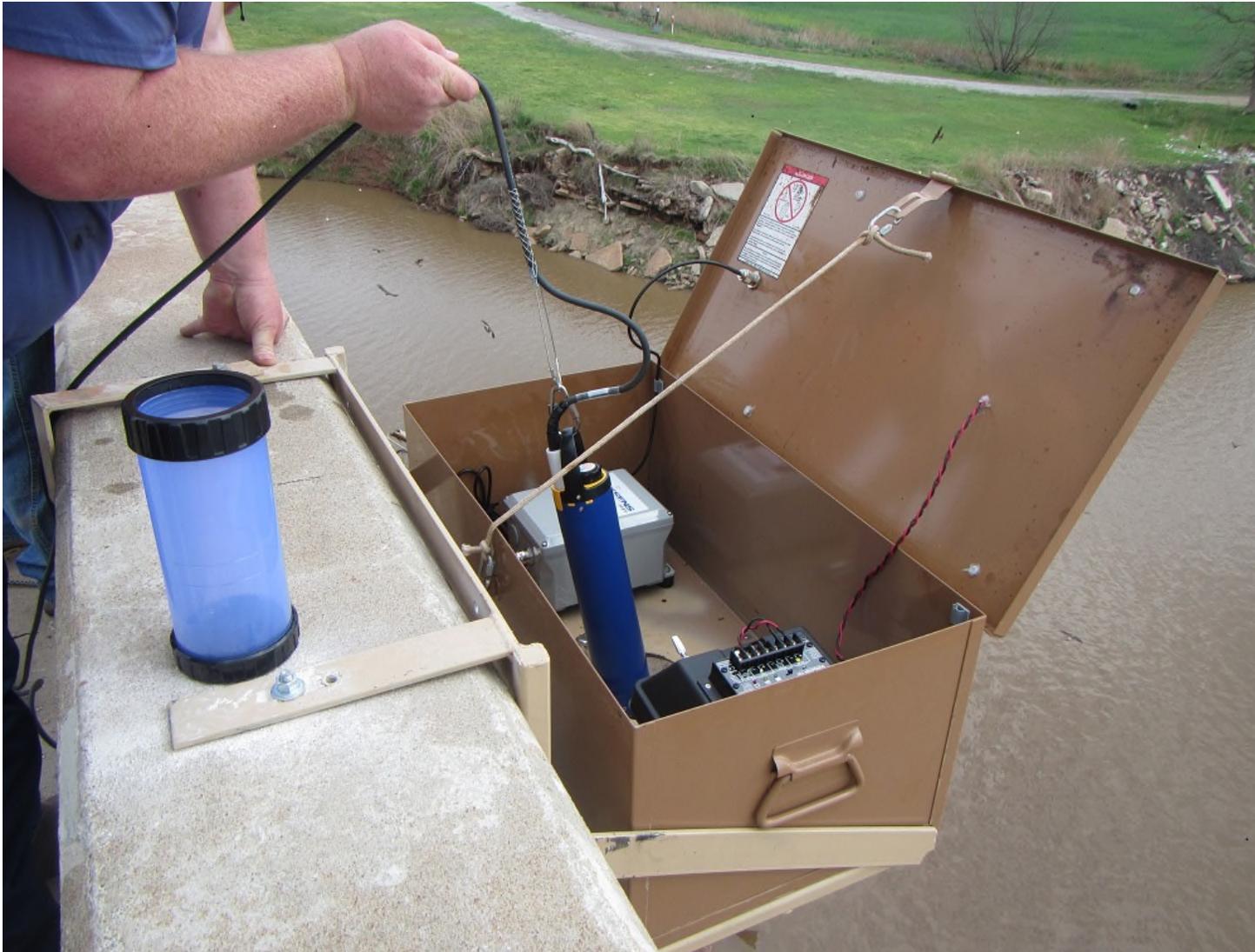


Photo by Ferrella March, ODEQ

Installation



Photos by Ferrella March, ODEQ

Results

- Unusually wet season
- Daily Reports
- Produced a significant amount of data
 - Riverine systems
 - Helps identify next steps
- Technical Issues (i.e., siltation, probe malfunctions)
- Redeployment during a more critical flow period

Conclusion

- Apply the Collaborative process when dealing with complex environmental issues
- Through shared goals agencies can maximize resources
- Minimize duplication of effort
- Investment in training results in efficiency and consistency
- Technical support and data gathering become less time and resource intensive
- Learn from the experience

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Questions?



Red River Fish Kill 2011

Photo by Brian Magott, ODEQ