



Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 0829 Rising Creek

Submitted by  
SES, Inc.

To  
Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 3, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
 (For water body being surveyed)

**Water Body Information**

Water Body Name:	Rising Creek	WBID:	829
8 digit HUC code:	10300102	County:	Cole
Upstream Legal Description	44N 11W 36		
Downstream Legal Description	44N 10W 19		
Number of Sites Evaluated	3		
List all site numbers, listed upstream to downstream	1,2,3		

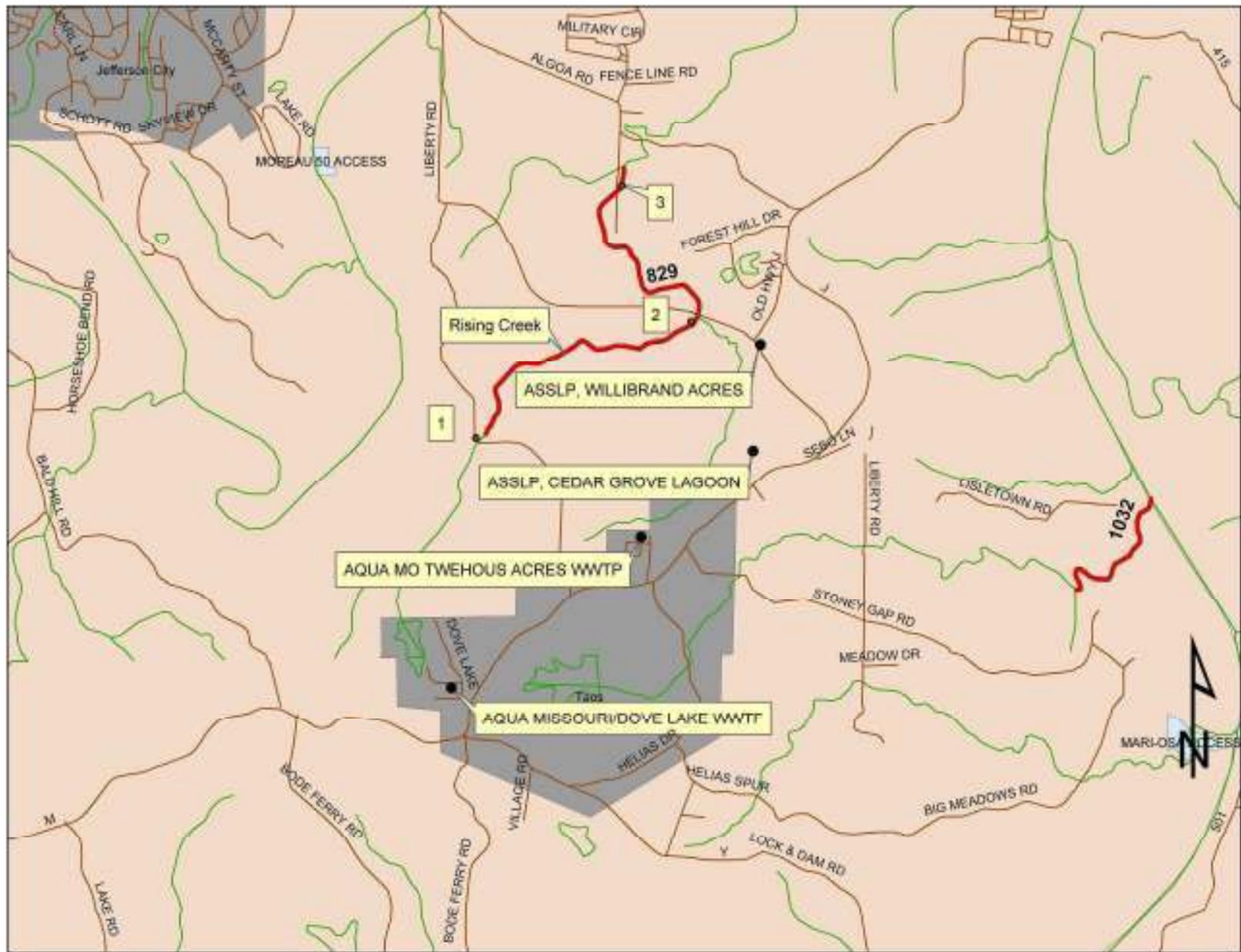
**Discharger Facility Information**

Discharger Facility Name(s):	Aquasoruces - Dove LK WWTF, ASSLP - Cedar Grove Lagoon, ASSLP - Willibrand Acres, CU - Twehous Acres WWTP
Discharger Permit Number(s):	MO0096342, MO0107433, MO0097411, MO0089338

**UAA Surveyor**

Name of Surveyor:	Aaron Ball	Telephone Number:	(913)307-0054 Ext. 14
Organization/Employer:	SES, Inc.		
Position:	Field Team Leader		

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



**Field Data Sheets for Recreational Use Stream Surveys  
Data Sheet B - Site Characterization  
(must be completed for each site)**

WBID 829  
Site # 1

Date and Time: 5/9/2007 13:50

Current Weather Conditions clear

Weather Conditions for Past 10 days: Rained 5/1-5/4 and 5/6; 1-inch total

Drought Conditions? No

Site Location (e.g. road crossing) road crossing on Shamrock

GPS Mark: 13

Upstream Photo 20 Downstream Photo 21

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	<b>Fence</b>
Steep slopes	None of the Above	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
<b>Livestock Watering</b>	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

**WBID #** 829                      **Site #** 1  
**Mark #** 13                      **Dissolved Oxygen (ppm)** 10.2  
**Upstream Views Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current?

**Select one of the following channel features:**

% of Channel Feature

Riffle	0				
Run	0				
Pool	100				

**Downstream View's Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
20	50	30	0
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

5-10%
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**Water Characteristics**

Odor                      Sewage    Musky    Chemical    **None**    Other  
 Color                      **Clear**    Green    Gray    Milky    Other  
 Bottom Deposit            Sludge    Solids    Fine Sed.    **None**    Other  
 Surface Deposit            Oil        Scum    Foam    **None**    Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 1

Mark # 13

0829\_Rising Creek\_Cole

	Depth (m)
<b>Transect 1</b>	0.10
Substrate:	0.10
gravel	0.10
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.05
pool	0.05
Channel Width:	0.05
3 yards	0.05
<b>0.05</b>	<b>0.00</b>
<b>Transect 2</b>	0.05
Substrate:	0.05
cobble	0.05
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.05
7 yards	0.50
<b>0.03</b>	<b>0.00</b>
<b>Transect 3</b>	0.15
Substrate:	0.15
gravel	0.20
Water Clarity:	0.10
clear	0.05
Channel Feature:	0.05
pool	0.00
Channel Width:	0.05
6 yards	0.00
<b>0.05</b>	<b>0.00</b>
<b>Transect 4</b>	0.05
Substrate:	0.05
gravel	0.00
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
pool	0.05
Channel Width:	0.05
3 yards	0.00
<b>0.03</b>	<b>0.00</b>

	Depth (m)
<b>Transect 5</b>	0.05
Substrate:	0.10
cobble, gravel	0.10
Water Clarity:	0.15
clear	0.20
Channel Feature:	0.20
pool	0.20
Channel Width:	0.20
4 yards	0.10
<b>0.13</b>	<b>0.05</b>
<b>Transect 6</b>	0.25
Substrate:	0.30
gravel, silt	0.40
Water Clarity:	0.50
clear	0.15
Channel Feature:	0.50
	0.45
Channel Width:	0.40
5 yards	0.30
<b>0.35</b>	<b>0.25</b>
<b>Transect 7</b>	0.10
Substrate:	0.20
cobble, sand	0.35
Water Clarity:	0.40
clear	0.45
Channel Feature:	0.50
pool	0.45
Channel Width:	0.40
7 yards	0.30
<b>0.38</b>	<b>0.25</b>
<b>Transect 8</b>	0.10
Substrate:	0.15
gravel	0.15
Water Clarity:	0.20
clear	0.20
Channel Feature:	0.15
pool	0.10
Channel Width:	0.00
8 yards	0.00
<b>0.13</b>	<b>0.10</b>

	Depth (m)
<b>Transect 9</b>	0.05
Substrate:	0.05
gravel	0.05
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.10
pool	0.15
Channel Width:	0.15
3 yards	0.15
<b>0.10</b>	<b>0.15</b>
<b>Transect 10</b>	0.05
Substrate:	0.10
gravel	0.15
Water Clarity:	0.15
clear	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.05
3 yards	0.05
<b>0.10</b>	<b>0.05</b>
<b>Transect 11</b>	0.05
Substrate:	0.05
gravel	0.10
Water Clarity:	0.10
	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.05
2 yards	0.05
<b>0.08</b>	<b>0.05</b>
<b>Site Median</b>	<b>0.10</b>
<b>Site Maximum</b>	<b>0.50</b>

**Field Data Sheets for Recreational Use Stream Surveys  
Data Sheet B - Site Characterization  
(must be completed for each site)**

WBID 829  
Site # 2

Date and Time: 5/9/2007 14:25

Current Weather Conditions clear

Weather Conditions for Past 10 days: Rained 5/1-5/4 and 5/6; 1-inch total

Drought Conditions? No

Site Location (e.g. road crossing) crossing on Liberty Rd.

GPS Mark: 14

Upstream Photo 22 Downstream Photo 23

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	<b>Hunting</b>	Trapping
Fishing	None of the Above	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 829      **Site #** 2  
**Mark #** 14      **Dissolved Oxygen (ppm)** 10.6  
**Upstream Views Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current?

**Select one of the following channel features:**

% of Channel Feature

Riffle	10				
Run	0				
Pool	90				

**Downstream View's Physical Dimensions:** Is there any water present at this view?      yes

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
20	70	0	0
% Mud/Clay	% Bedrock		
0	10		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

Algae on bedrock.

**Water Characteristics**

Odor                      Sewage    Musky    Chemical    **None**    Other  
 Color                      **Clear**    Green    Gray       Milky    Other  
 Bottom Deposit        Sludge    Solids    Fine Sed.    **None**    Other  
 Surface Deposit        Oil        Scum     Foam       **None**    Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 2

Mark # 14

0829\_Rising Creek\_Cole

	Depth (m)
<b>Transect 1</b>	0.00
Substrate:	0.00
bedrock	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
pool	0.05
Channel Width:	0.05
2 yards	0.05
<b>0.00</b>	<b>0.00</b>
<b>Transect 2</b>	0.00
Substrate:	0.00
cobble	0.00
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.05
2 yards	0.00
<b>0.03</b>	<b>0.00</b>
<b>Transect 3</b>	0.10
Substrate:	0.10
gravel	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.10
3 yards	0.05
<b>0.10</b>	<b>0.05</b>
<b>Transect 4</b>	0.10
Substrate:	0.20
gravel	0.35
Water Clarity:	0.40
clear	0.50
Channel Feature:	0.50
pool	0.60
Channel Width:	0.60
5 yards	0.50
<b>0.45</b>	<b>0.30</b>

	Depth (m)
<b>Transect 5</b>	0.10
Substrate:	0.10
silty gravel	0.20
Water Clarity:	0.30
clear	0.35
Channel Feature:	0.35
pool	0.30
Channel Width:	0.40
3 yards	0.25
<b>0.28</b>	<b>0.05</b>
<b>Transect 6</b>	0.05
Substrate:	0.05
grave;	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.05
pool	0.05
Channel Width:	0.00
2 yards	0.00
<b>0.05</b>	<b>0.00</b>
<b>Transect 7</b>	0.10
Substrate:	0.10
grvel	0.20
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.25
pool	0.30
Channel Width:	0.25
6 yards	0.20
<b>0.20</b>	<b>0.15</b>
<b>Transect 8</b>	0.10
Substrate:	0.15
gravel	0.10
Water Clarity:	0.15
clear	0.20
Channel Feature:	0.20
pool	0.25
Channel Width:	0.25
5 yards	0.30
<b>0.20</b>	<b>0.30</b>

	Depth (m)
<b>Transect 9</b>	0.10
Substrate:	0.10
gravel, silt	0.10
Water Clarity:	0.10
clear	0.15
Channel Feature:	0.20
pool	0.25
Channel Width:	0.30
2 yards	0.25
<b>0.18</b>	<b>0.20</b>
<b>Transect 10</b>	0.10
Substrate:	0.10
cobbly gravel	0.20
Water Clarity:	0.25
clear	0.30
Channel Feature:	0.30
pool	0.25
Channel Width:	0.20
3 yards	0.15
<b>0.20</b>	<b>0.10</b>
<b>Transect 11</b>	0.00
Substrate:	0.00
gravel, silt	0.00
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
pool	0.10
Channel Width:	0.00
1 yard	0.00
<b>0.00</b>	<b>0.00</b>
<b>Site Median</b>	<b>0.10</b>
<b>Site Maximum</b>	<b>0.60</b>

**Field Data Sheets for Recreational Use Stream Surveys  
Data Sheet B - Site Characterization  
(must be completed for each site)**

WBID 829  
Site # 3

Date and Time: 5/9/2007 15:15

Current Weather Conditions clear

Weather Conditions for Past 10 days: Rained 5/1-5/4 and 5/6; 1-inch total

Drought Conditions? No

Site Location (e.g. road crossing) driveway north of 63/50 and east of Militia Rd.

GPS Mark: 15

Upstream Photo 24 Downstream Photo 25

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 829                      **Site #** 3  
**Mark #** 15                      **Dissolved Oxygen (ppm)** 11.1  
**Upstream Views Physical Dimensions:** Is there any water present at this view? Yes

If so, is there an obvious current?

**Select one of the following channel features:**

% of Channel Feature

Riffle	10				
Run	0				
Pool	90				

**Downstream View's Physical Dimensions:** Is there any water present at this view? Yes

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
10	10	60	20
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

Alge on rocks.

**Water Characteristics**

Odor                      Sewage    Musky    Chemical    **None**    Other  
 Color                      **Clear**    Green    Gray    Milky    Other  
 Bottom Deposit            Sludge    Solids    Fine Sed.    **None**    Other  
 Surface Deposit            Oil        Scum    Foam    **None**    Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 3

Mark # 15

0829\_Rising Creek\_Cole

	Depth (m)
<b>Transect 1</b>	<b>0.10</b>
Substrate:	0.10
gravel	0.15
Water Clarity:	0.20
clear	0.20
Channel Feature:	0.20
pool	0.30
Channel Width:	0.30
3 yards	0.30
0.20	<b>0.25</b>
<b>Transect 2</b>	<b>0.05</b>
Substrate:	0.15
gravel, silt	0.25
Water Clarity:	0.30
clear	0.35
Channel Feature:	0.40
pool	0.40
Channel Width:	0.40
4 yards	0.30
0.30	<b>0.20</b>
<b>Transect 3</b>	<b>0.05</b>
Substrate:	0.20
silt, sand	0.30
Water Clarity:	0.30
clear	0.30
Channel Feature:	0.30
pool	0.40
Channel Width:	0.30
4 yards	0.25
0.30	<b>0.15</b>
<b>Transect 4</b>	<b>0.15</b>
Substrate:	0.20
gravel, silt	0.20
Water Clarity:	0.25
clear	0.25
Channel Feature:	0.30
pool	0.40
Channel Width:	0.40
4 yards	0.30
0.28	<b>0.30</b>

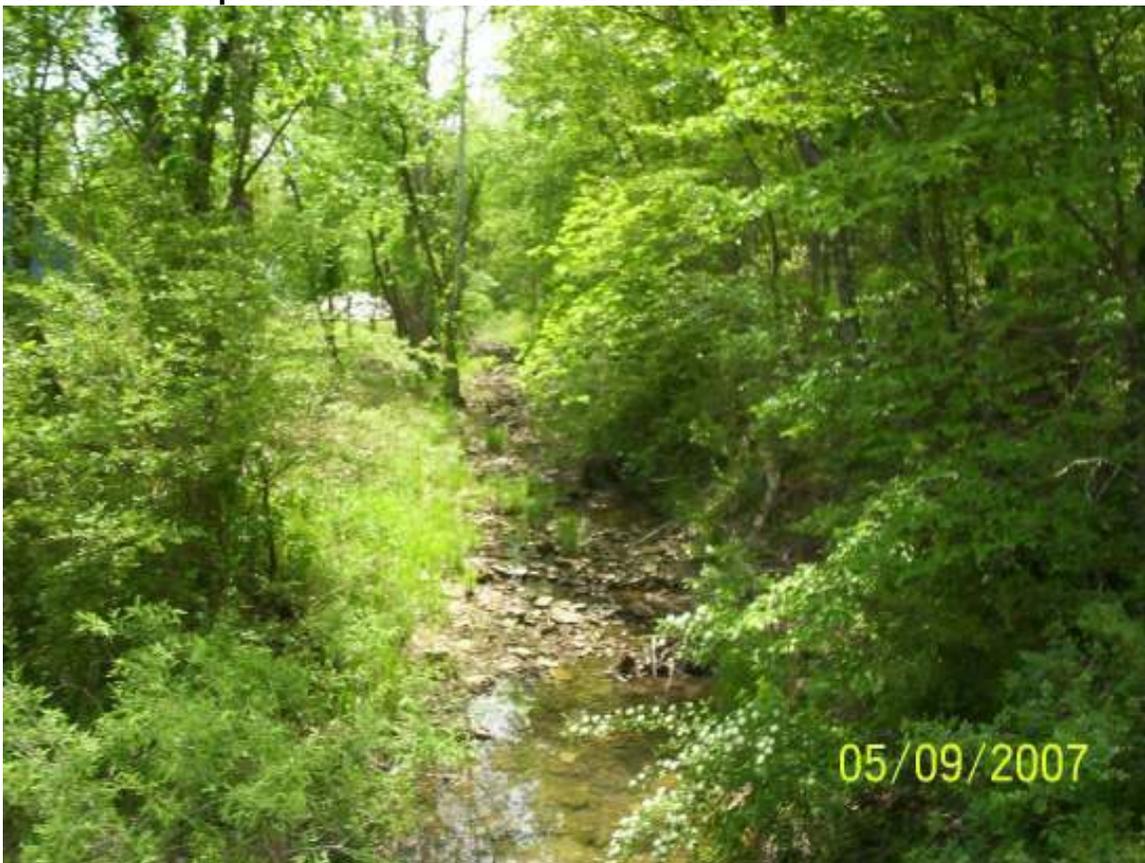
	Depth (m)
<b>Transect 5</b>	<b>0.20</b>
Substrate:	0.30
gravel, silt	0.35
Water Clarity:	0.30
clear	0.30
Channel Feature:	0.30
pool	0.25
Channel Width:	0.20
4 yards	0.25
0.28	<b>0.20</b>
<b>Transect 6</b>	<b>0.20</b>
Substrate:	0.20
sand, silt	0.25
Water Clarity:	0.30
clear	0.30
Channel Feature:	0.35
pool	0.30
Channel Width:	0.25
3 yards	0.20
0.25	<b>0.20</b>
<b>Transect 7</b>	<b>0.10</b>
Substrate:	0.20
gravel, sand	0.20
Water Clarity:	0.25
clear	0.30
Channel Feature:	0.30
pool	0.30
Channel Width:	0.25
4 yards	0.20
0.23	<b>0.15</b>
<b>Transect 8</b>	<b>0.30</b>
Substrate:	0.30
cobble, sand	0.30
Water Clarity:	0.30
clear	0.30
Channel Feature:	0.30
pool	0.25
Channel Width:	0.20
2 yards	0.20
0.30	<b>0.15</b>

	Depth (m)
<b>Transect 9</b>	<b>0.20</b>
Substrate:	0.35
silt, cobble	0.40
Water Clarity:	0.50
cloudy, scum	0.50
Channel Feature:	0.45
	0.40
Channel Width:	0.40
7 yards	0.40
0.40	<b>0.30</b>
<b>Transect 10</b>	<b>0.30</b>
Substrate:	0.35
gravel, silt	0.30
Water Clarity:	0.30
cloudy, scum	0.05
Channel Feature:	0.00
pool	0.10
Channel Width:	0.40
5 yards	0.40
0.30	<b>0.40</b>
<b>Transect 11</b>	<b>0.35</b>
Substrate:	0.40
	0.40
Water Clarity:	0.40
clear	0.40
Channel Feature:	0.40
pool	0.40
Channel Width:	0.50
6 yards	0.40
0.40	<b>0.35</b>
<b>Site Median</b>	<b>0.30</b>
<b>Site Maximum</b>	<b>0.50</b>

Site 1 Downstream Photo 21 WBID# 0829



Site 1 Upstream Photo 20 WBID# 0829



Site 2

Downstream

Photo 23

WBID# 0829



Site 2

Upstream

Photo 22

WBID# 0829



Site 3

Downstream

Photo 25

WBID# 0829



Site 3

Upstream

Photo 24

WBID# 0829



WBID # 829 Site # 907

Date: 06 / 20 / 2006

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet C – Interviews**

(Make additional copies as necessary for multiple interviews)

1. Do you live in the area?  Yes  No  
 If so, how long have you lived here? 10 YEARS

2. Have you personally used this water body for recreation since 1975?  Yes  No  
 If so, please check ALL that apply:

<input checked="" type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

How often do you use it for recreation?

- More than 5 times per year  
 1 – 5 times per year  
 Less than 1 time per year – please describe: \_\_\_\_\_

3. Have you observed others using this water body for recreation since 1975?  Yes  No  
 If so, please check ALL that apply:

<input checked="" type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input checked="" type="checkbox"/> Trapping	<input checked="" type="checkbox"/> Fishing	<input type="checkbox"/> None of the above	<input type="checkbox"/> Other:

How often have you observed it being used for recreation?

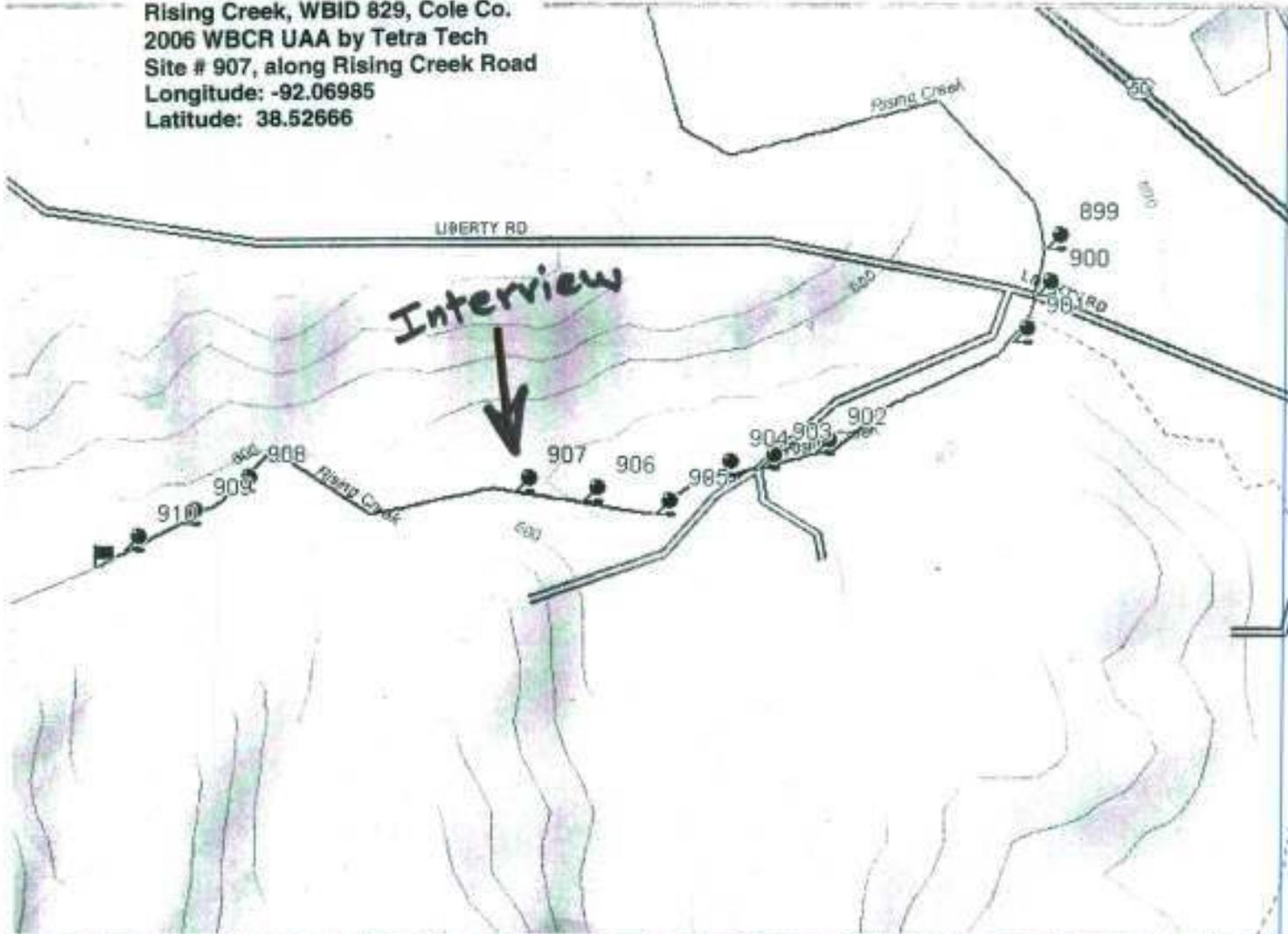
- More than 5 times per year  
 1 – 5 times per year  
 Less than 1 time per year – please describe: \_\_\_\_\_

4. Additional Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Contact Information (if willing to provide): DECLINED INFORMATION

Name:  
 Address:  
 Telephone #:

Rising Creek, WBID 829, Cole Co.  
 2006 WBCR UAA by Tetra Tech  
 Site # 907, along Rising Creek Road  
 Longitude: -92.06985  
 Latitude: 38.52666



Home  Print  MapData  Draw  GPS  Route  Profile  3-D  Map Display  [NetLink](#)

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**Advanced Search** Search For:

MapTags

Name	City/Town	State	ZIP Code	US County	Category
<input type="checkbox"/> Cole County		MO (...)		Cole County	US County
<input type="checkbox"/> Cole County Historica...	Jefferson City	MO (...)	65101	Cole County	Art Gallery
<input type="checkbox"/> Cole Hole Hollow	Houston	MO (...)	65483	Texas County	Other Land
<input type="checkbox"/> Cole Hollow	Isabella	MO (...)	65876	Ozark County	Other Land