



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1301 Bones Branch

Submitted by

BWR

to

Missouri Department of Natural Resources
Water Protection Program

Date received: June 1, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	BONES Branch
Missouri Water Body Identification (WBID) Number:	1301
8-digit HUC:	10290102
County:	BATES
Upstream Legal Description (from Table H):	29, 41N, 31W
Downstream Legal Description (from Table H):	MOUTH
Number of sites evaluated	3
List all sites numbers, listed consequently upstream to downstream:	3, 2, 1

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

II. Subsegmentation (fill this section out only in cases where subsegmentation is being proposed)

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)			
Upstream Coordinates:		Downstream Coordinates:	
UTM X	Y	UTM X	Y
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± <u>18</u> Feet or ± _____ Meters		
PDOP		± _____ Feet or ± _____ Meters	

III. Discharger Facility Information (list all permitted dischargers on the stream)

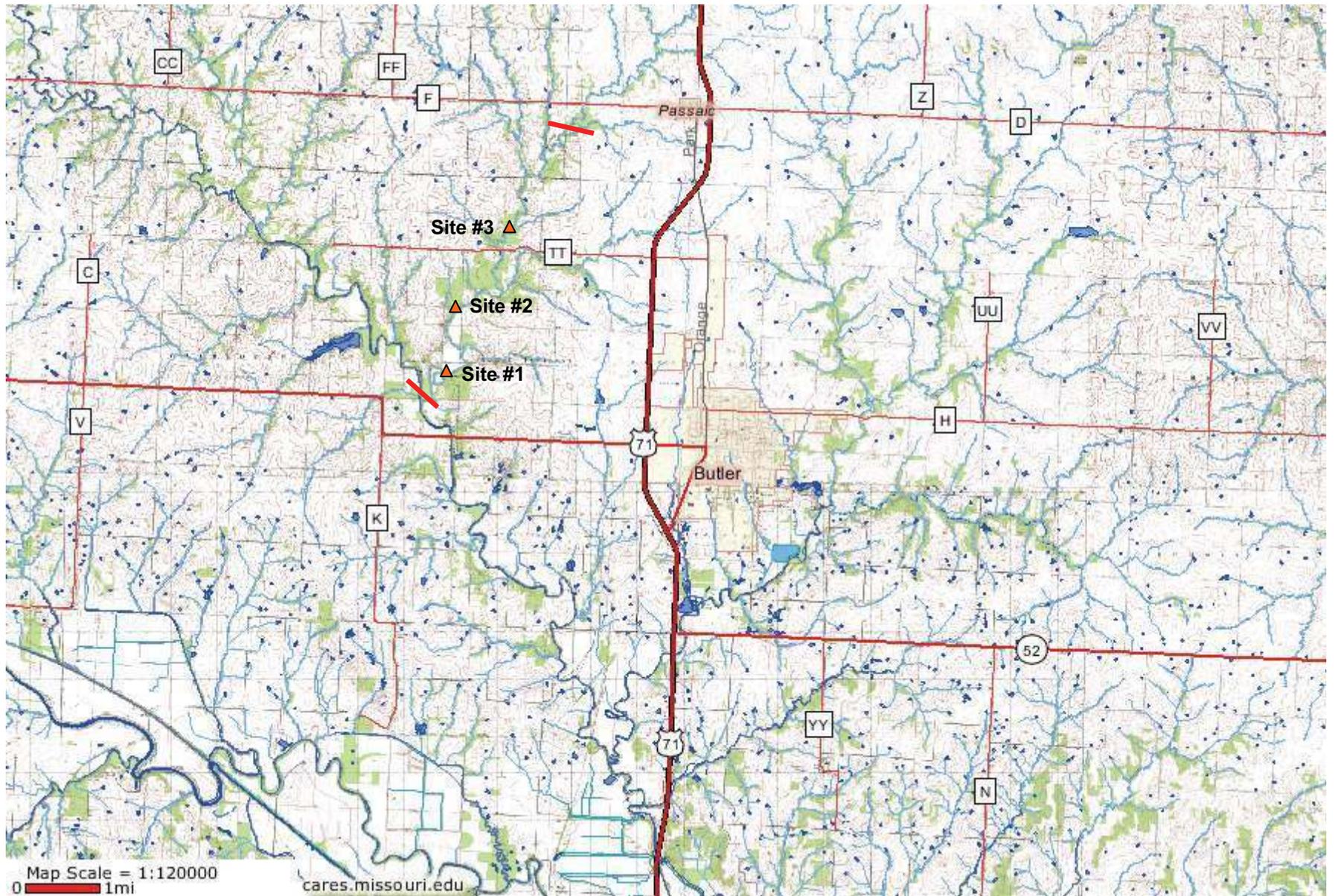
Discharger Facility Name(s):	NA - non-point sources
Discharger Permit Number(s):	NA

IV. UAA Surveyor (please print legibly)

Name of Surveyor	Mark Griffith	Telephone Number:	913.645.7791
Organization/Employer:	EAE		
Position:	Team Leader		

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed: Mark Griffith Date: 5/11/07



● Non-point source

Bones Branch
WBID #1301



WBID# 1301
 Site# 1

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

Date & Time: <u>5/14/07 10:05</u>	Site Location Description (e.g., road crossing): <u>Bonus Branch - Road crossing</u>
Personnel (Data Collectors): <u>Mark Griffin, Sadie Robb</u>	Facility Name: <u>NA</u>
Current Weather Conditions: <u>Sunny/Warm</u>	Permit Number: <u>NA - non-point source</u>
Weather Conditions for Past 10 days: <u>rainy</u>	
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES, UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS	
Site GPS Coordinates: UTM X: <u>N38.27259° W094.4021°</u> UTM Y: <u>W094.4021° N38.27259</u>	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data): Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>44</u>	<u>upstream landscape</u>	<u>45</u>	<u>downstream photo</u>	<u>44</u>	<u>downstream photo</u>

Uses Observed*: (Uses actually observed at time of survey.)

<input 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 checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other: <u>Pasture</u>

Comments:

Indications of Human Use*: (attach photos)

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

Comments: NONE

Run - 90%
Riffle - 10% (@ log jam)

* Page Two - Data Sheet B for WBID # _____:

Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

40 % Cobble	20 % Gravel	20 % Sand	20 % Silt	0 % Mud/Clay	0 % Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Water grass

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Andie Robb Date of Survey: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

C1
T1

T2

T3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
a	.5m	.1m		1	
b		.2m		2	
c		.3m		3	
d	[.5 apart m]	.3m		4	
e		.4m	→ 5.7 ppm [DO]	5	
f		.4m		6	
g		.3m	[Run]	7	
h		.3m		8	
i		.2m		9	
j		.1m		10	
k	.3m	.1m		11	
l		.3m		12	
m	[.5 apart m]	.4m		13	
n		.5m	→ 5.7 ppm [DO]	14	
o		.5m		15	
p		.4m	[Run]	16	
q		.4m		17	
r		.3m		18	
s		.2m		19	
t		.1m		20	
u	.1m	.1m		21	
v		.1m		22	
w		.8m	→ 5.4 ppm [DO]	23	
x		.10m	↳ 23.7°C water	24	
y	[.7m apart]	.10m		25	
z		.5m		26	
aa		.4m		.	
ab		.3m		.	
ac		.2m		.	
ad		.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Nathie Rello Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T4	.1m	.1m	noticeable flow	1	
		.3m		2	
		.5m	→ 5.7 ppm [DO]	3	
	[.6m apart]	.4m	[Run]	4	
		.2m		5	
		.3m		6	
		.2m		7	
		.1m		8	
		.2m		9	
		.1m		10	
T5	.2m	.1m		11	
		.2m		12	
	[.7m apart]	.3m		13	
		.4m		14	
		.4m	[Run]	15	
		.5m	→ 5.7 ppm [DO]	16	
		.5m		17	
		.6m		18	
		.5m		19	
		.4m		20	
T6	.1m	.1m	[Run]	21	
		.3m		22	
		.4m		23	
	[.7m apart]	.6m	→ 5.7 ppm [DO]	24	
		.5m		25	
		.5m		26	
		.4m		.	
		.3m		.	
		.2m		.	
		.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Andre Pelt Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T ₇	.1m	.1m		1	
		.1m		2	
	[every .5m]	.2m	[Run]	3	
		.3m		4	
		.3m		5	
		.4m	→ 5.7 ppm [DO]	6	
		.4m		7	
		.4m		8	
		.4m		9	
		.3m		10	
T ₈	.1m	.1m	[Run]	11	
		.4m		12	
	[every .8m]	.5m		13	
		.4m		14	
		.3m		15	
		.5m		16	
		.7m	→ 5.6 ppm [DO]	17	
		.7m		18	
		.6m		19	
		.3m		20	
T ₉	.2m	.1m	[Run]	21	
		.2m		22	
	[every .7m]	.3m		23	
		.3m		24	
		.3m		25	
		.4m		26	
		.5m	→ 5.5 ppm [DO]		
		.6m			
		.4m			
		.3m	[only .8m from previous transect]	n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adie Redd Date: 5/14/07

Organization: BWR Position: Field Crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

Transsects irregular due to log debris

T10

T11

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
a	.2m	.1m	22m [20m from previous transect]	1	
b		.2m		2	
c		.3m		3	
d	[.6m apart]	.4m		4	
e		.4m	→ 5.7 ppm [DO]	5	
f		.3m		6	
g		.3m		7	
h		.3m	[Run]	8	
i		.2m		9	
j		.1m		10	
a	[0 (next to log)]	.3m	[Run]	11	
b		.6m		12	
c		.8m		13	
d	[.7m apart]	.8m	→ 5.6 ppm [DO]	14	
e		.6m		15	
f		.8m		16	
g		.7m		17	
h		.5m		18	
i		.3m		19	
j		.1m		20	
				21	
				22	
				23	
				24	
				25	
				26	
				.	
				.	
				.	
				n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Bobie Robb Date: 5/14/07

Organization: BWR Position: field squad

WBID# 1301
 Site# 2

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

Date & Time: <u>5/14/07 17:20</u>	Site Location Description (e.g., road crossing): <u>Bones Branch - road crossing/pasture</u>
Personnel (Data Collectors): <u>Mam Griffin, Sadie Webb</u>	
Current Weather Conditions: <u>Sunny, warm</u>	Facility Name: <u>NA</u>
Weather Conditions for Past 10 days: <u>rain</u>	Permit Number: <u>NA - non-point sources</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES, UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS

Site GPS Coordinates: UTM X: N 38 29246 W 094.39388 S 11091.39388 N 38.29246

HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)

Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE

GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± _____ Feet or ± _____ Meters		
PDOP		± _____ Feet or ± _____ Meters	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>47</u>	<u>upstream</u>	<u>48</u>	<u>downstream</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input 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 checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other: <u>pasture</u>

Comments:

Indications of Human Use*: (attach photos)

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

Comments: NONE

95% Run
5% Riffle

* Page Two – Data Sheet B for WBID # 1301 :

Stream Morphology:

site 2

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

40 % Cobble	20 % Gravel	20 % Sand	20 % Silt	0 % Mud/Clay	0 % Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

None

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Adie Robb Date of Survey: 5/14/07
 Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
CS2 T1	.4m	.1m	[Riffle]	1	
	[.7m apart]	.1m	[Riffle]	2	
		.1m		3	
		.1m		4	
		.1m		5	
	Start @	.1m		6	
	R. bank	.1m		7	
		.2m	→ 7.5 ppm [DO]	8	
		.1m		9	
		.1m		10	
T2	.2m	.1m	[Riffle]	11	
		.1m	[Riffle]	12	
	[.7m apart]	.1m		13	
		<.1m		14	
		<.1m		15	
		.1m		16	
		.1m	→ 7.5 ppm [DO]	17	
		.1m		18	
		.1m		19	
		<.1m		20	
T3	1m	.1m	[run]	21	
		<.1m		22	
		.1m		23	
	[.6m apart]	.1m		24	
		.2m		25	
		.2m		26	
		.2m	→ 7.4 ppm [DO]	.	
		.3m		.	
		.3m		.	
		.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Radie Robb Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T ₄	.5m	.1m	[Run]	1	[Very little silt - mainly gravel/sand]
	[every .5m apart]	.2m		2	
		.2m		3	
		.3m		4	
		.4m		5	
		.5m		6	
		.6m	→ 7.3 ppm [DO]	7	
		.5m		8	
		.3m		9	
		.1m		10	
T ₅	.8m	.1m	[Run]	11	
	[1.0m apart]	.1m		12	
		.2m		13	
		.2m		14	
		.2m		15	
		.3m		16	
		.3m	→ 7.3 ppm [DO]	17	
		.3m		18	
		.3m		19	
		.1m		20	
T ₆	.9m	.1m		21	[Water relatively clear]
	[.8m apart]	.1m		22	
		.1m		23	
		.2m		24	
		.2m		25	
		.2m	→ 7.3 ppm [DO]	26	
		.3m		.	
		.2m		.	
		.2m		.	
		.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Janice Potts Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
a	.1m	.1m	[Run]	1	
b		.2m		2	
c		.2m		3	
d	[.6m apart]	.2m → 7.4 ppm [no]		4	
e		.2m		5	
f		.2m		6	
g		.2m		7	
h		.2m		8	
i		.1m		9	
U		.1m		10	
R	0m →	.3m		11	
b	under	.4m → 7.4 ppm [no]		12	
c	root	.3m		13	
d	wad	.2m		14	
e	[.5m apart]	.2m	[Run]	15	
f		.2m	[beneath]	16	
g		.1m	[RIFLE]	17	
h		.1m		18	
i		.1m		19	
U		<.1m		20	
R	.1m	.1m	[Run]	21	
b		.3m		22	
c	[.6m apart]	.3m → 7.4 ppm [no]		23	
d		.3m		24	
e		.2m		25	
f		.1m		26	
g		.2m		.	
h	.1m		.		
i	.1m		.		
U		<.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Nadie Redd Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

T₁₀
T₁₁

Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
			1	
			2	
			3	
.3m	.1m		4	
	.1m		5	
.5m across	.1m	→ 7.5 ppm [DO]	6	
	.1m		7	
	.1m		8	
	.1m		9	
	.1m		10	
	.1m		11	
	< .1m		12	
	< .1m		13	
.2m	.1m		14	
	.1m		15	
.4m apart	.1m	→ 7.4 ppm [DO]	17	
	.1m		18	
	.1m		19	
	.1m		20	
	.1m		21	
	< .1m		22	
	< .1m		23	
			24	
			25	
			26	
			.	
			.	
			.	
			n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Adie Robb Date: 5/14/07

Organization: BWR Position: field crew

WBID# 1301
 Site# 3

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

Date & Time: <u>5/14/07</u> <u>18:10</u>	Site Location Description (e.g., road crossing): <u>Bones Branch - road crossing / pasture</u> → Road TT
Personnel (Data Collectors): <u>Mark Britton</u> <u>Jodie Robb</u>	
Current Weather Conditions: <u>Sunny, warm</u>	Facility Name: <u>NA</u>
Weather Conditions for Past 10 days: <u>rainy</u>	Permit Number: <u>NA - non-point sources</u>
Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION IN METERS)	
Site GPS Coordinates: UTM X: <u>N38.29432</u> W <u>094.39432</u> ; <u>N094.39432</u> <u>N38.29432</u>	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	
Static Mode	Interpolation
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite imagery
Real Time Differential Processing	Interpolation Other
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	
FOM ± _____ Meters	Interpolation Data Quality
EPE ± _____ Feet or ± _____ Meters	
PDOP	
Source Map Scale: 1:24,000 1:100,000 Other _____	
± _____ Feet or ± _____ Meters	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>49</u>	<u>landscape</u>	<u>50</u>	<u>landscape</u>		

Uses Observed*: (Uses actually observed at time of survey.)

<input 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 checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Comments:

Indications of Human Use*: (attach photos)

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

Comments: NONE

5 ~~11~~ Riffle
 95 ~~10~~ Run

* Page Two – Data Sheet B for WBID # 1301:
 Stream Morphology: site 3

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No
 If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No
 If so, is there an obvious current? Yes No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

<u>40</u> % Cobble	<u>20</u> % Gravel	<u>20</u> % Sand	<u>20</u> % Silt	<u>0</u> % Mud/Clay	<u>0</u> % Bedrock
--------------------	--------------------	------------------	------------------	---------------------	--------------------

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

NONE

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach any additional comments () to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Andie Robb Date of Survey: 5/14/07
 Organization: BWR Position: Field Crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

CS-3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T ₁	0m	.3m	[Run]	1	Scattered foam
		.7m		2	
		.9m	→ 7.0 ppm [00]	3	
	[.9m apart]	.0m		4	
		.4m		5	
		.3m		6	
		.3m		7	
		.3m		8	
		.2m		9	
		.1m		10	
T ₂	0	.1m	[Run]	11	
		.3m		12	
	[.9m apart]	.6m	→ 7.0 ppm [00]	13	
		.5m		14	
		.5m		15	
		.5m		16	
		.5m		17	
		.5m		18	
		.2m		19	
		.1m		20	
T ₃	0	.1m		21	Substrate = Sand / gravel / Cobble
		.3m		22	
	[.9m apart]	.2m	[Run]	23	
		<.1m (gravel)		24	
		<.1m		25	
		.1m		26	
		.2m	→ 7.0 ppm [00]	.	
		.2m		.	
		.2m		.	
		.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Paul Rob Date: 5/14/07

Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T4	.3m	.1m		1	
		.1m	[2m]	2	
		.1m		3	
		.1m		4	
	[.5m apart]	.1m		5	
		.1m → T.1 ppm [DO]		6	
		.2m		7	
		.1m		8	
		.1m		9	
		.1m		10	
T5	.2m	.1m	[2m]	11	
		.2m		12	
	[.8m apart]	.3m → 7.0 ppm [DO]		13	
		.2m		14	
		.2m		15	
		.2m		16	
		.2m		17	
		.2m		18	
		.1m		19	
		<.1m		20	
T6	.1m	.1m	[Riffle]	21	
		.1m		22	
		.1m		23	
	[.2m apart]	.1m		24	
		.1m → 7.3 ppm [DO]		25	
		.1m		26	
		.1m		.	
		.1m		.	
		<.1m		.	
		<.1m		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Nadie Robb Date: 5/14/07

Organization: BWR Position: Field Crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
T ₁₀	0	.1m		1	
		.3m	[Run]	2	
		.4m		3	
		.4m		4	
		.3m		5	
		.3m		6	
		.3m		7	
		.4m →	0.8 ppm [DO]	8	
		.4m		9	
		.4m		10	
		.3m		11	
T ₁₁	.2m	.1m	[Run]	12	
		.2m		13	
		.2m		14	
		.1m		15	
		.1m		16	
		.1m		17	
		.2m		18	
		.2m →	0.7 ppm [DO]	19	
		.2m		20	
		.2m		21	
				22	
			23		
			24		
			25		
			26		
			.		
			.		
			.		
			n		

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Patie Robb Date: 5/14/07
 Organization: BWR Position: Field crew

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth	
T 7.1 m	.6m	.1m	[R _{un}]	1		
		.1m		2		
	[.4 m apart]	.2m	→ 7.1 ppm [D _o]		3	
		.1m			4	
		.1m			5	
		.2m			6	
		.1m			7	
		.1m			8	
		.1m			9	
		.1m			10	
T 8	1m	.1m	[R _{un}]	11		
		.1m		12		
		.2m		13		
	[.7 m apart]	.3m			14	
		.3m			15	
		.4m	→ 0.8 ppm [D _o]		16	
		.4m			17	
		.3m		18		
		.1m		19		
		<.1m		20		
T 9	.3m	.1m	[R _{un}]	21		
	[.7 m apart]	.1m		22		
		.2m		23		
		.2m		24		
		.2m		25		
		.3m		26		
		.3m	→ 0.8 ppm [D _o]		.	
		.3m			.	
		.3m			.	
		.2m		n		

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Jane Robb Date: 5/14/07

Organization: BWR Position: Field crew

Additional Comments

Bones Branch – West Region
WBID #1301

A photo log was not included with this creek assessment due to a camera malfunction.

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name - BONES BRANCH (WBID # 1301)

I. Introduction

Date & Time (include AM or PM): 11:30 am 5-12-07

Interviewed: In person By phone By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) OWNS PROPERTY

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer) _____, and I am collecting information on how people use _____ (name of the stream) _____."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

Yes No

If yes, list contact information for the interviewee below:

Legal name: TAMES KING RR 3. BUTLER.

Current mailing address: RR 3. BUTLER, MO 64730

Daytime phone number: (660) 679-3445

E-mail address (optional):

2.a.) Do you live in this area? Yes No

If yes, how many years? 1960 (47 yrs)

2.b.) If you don't live nearby, are you still familiar with this stream? Yes No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

Yes No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No
If yes, proceed to #2.
If no, proceed to, "IV. Anecdotal Use?".

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation				
Fishing <input type="checkbox"/>	Wading <input type="checkbox"/>	Boating <input type="checkbox"/>	Trapping <input type="checkbox"/>	Other: <input type="checkbox"/> List:

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation			
Swimming <input type="checkbox"/>	Tubing <input type="checkbox"/>	Snorkeling/Skin Diving <input type="checkbox"/>	Water Skiing <input type="checkbox"/>

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List:

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: _____

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

Yes No If yes, how (check all that apply):
Workshop? (if so, enter date): _____
On-line training seminar? _____
Followed Interview Instruction Sheets? _____
Other _____

Interviewer Information:

Signature: _____
Printed Name: _____
Employer (where applicable): _____
Interviewer's phone #: _____ E-mail: _____

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name BONES BRANCH (WBID # 1301)

I. Introduction

Date & Time (include AM or PM): 11:48 am 5-12-07

Interviewed: In person By phone By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) _____

Interviewer introduction to Interviewee: "My name is _____, I work for __ (name of your employer) ____, and I am collecting information on how people use __ (name of the stream) ____."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

Yes No If yes, list contact information for the interviewee below:

Legal name: Charles FITZ

Current mailing address: RR 3, BUTLER, MO 64730

Daytime phone number: (660) 679-5204

E-mail address (optional):

2.a.) Do you live in this area? Yes No

If yes, how many years? 40 years

2.b.) If you don't live nearby, are you still familiar with this stream? Yes No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No

If yes, proceed to "II. Personal Use?"

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

Yes No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

WATER CATTLE, NOT USED FOR ANYTHING ELSE

2.b.) Proceed to "III. Witnessed Use?"

3.) How do you use the stream?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?"

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List:

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing | Wading | Boating | Trapping | Other: List: _____

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: _____

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

Yes No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: _____

Printed Name: _____

Employer (where applicable): _____

Interviewer's phone #: _____ E-mail: _____

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name BONES BRANCH (WBID # _____)

I. Introduction

Date & Time (include AM or PM): _____

Interviewed: In person By phone By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) _____

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer) _____, and I am collecting information on how people use _____ (name of the stream) _____."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

Yes No If yes, list contact information for the interviewee below:

Legal name: BILL TARTER

Current mailing address: RR 3, Box 461, BUTLER, MO

Daytime phone number: (660) 679-6563

E-mail address (optional): _____

2.a.) Do you live in this area? Yes No

If yes, how many years? 10 years

2.b.) If you don't live nearby, are you still familiar with this stream? Yes No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

Yes No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List: _____

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?".

2.) What kinds of uses have you witnessed?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing | Wading | Boating | Trapping | Other: List:

If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No

If yes, proceed to #2.

If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming | Tubing | Snorkeling/Skin Diving | Water Skiing

If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing | Wading | Boating | Trapping | Other: List: _____

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: _____

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

Yes No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: _____

Printed Name: _____

Employer (where applicable): _____

Interviewer's phone #: _____ E-mail: _____