



Missouri  
Department of  
Natural Resources

Use Attainability Analysis

for

WBID 0859 Brushy Creek

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): <i>Brushy Creek</i>	
Missouri Water Body Identification (WBID) Number: <i>859</i>	
8-digit HUC: <i>10300103</i>	County: <i>Pettis</i>
Upstream Legal Description (from Table H): <i>MOUM 32,46N, 21W</i>	
Downstream Legal Description (from Table H): <i>SW32, 46N, 21W 32, 46N, 21W</i>	
Number of sites evaluated: <i>3</i>	
List all sites numbers, listed consequently upstream to downstream: <i>3, 2, 1</i>	

**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	± _____ Feet or ± _____ Meters	_____	
PDOP		± _____ Feet or ± _____ Meters	

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

Discharger Facility Name(s):	<i>Secalia Central WWTP, SWEET WINDS WTP, WOLF CREEK C&amp;P RECREATION, MISSOURI WOLF TUNNEL</i>
Discharger Permit Number(s):	<i>MO0023019, MO0091553, MO0098132, MO0119547</i>

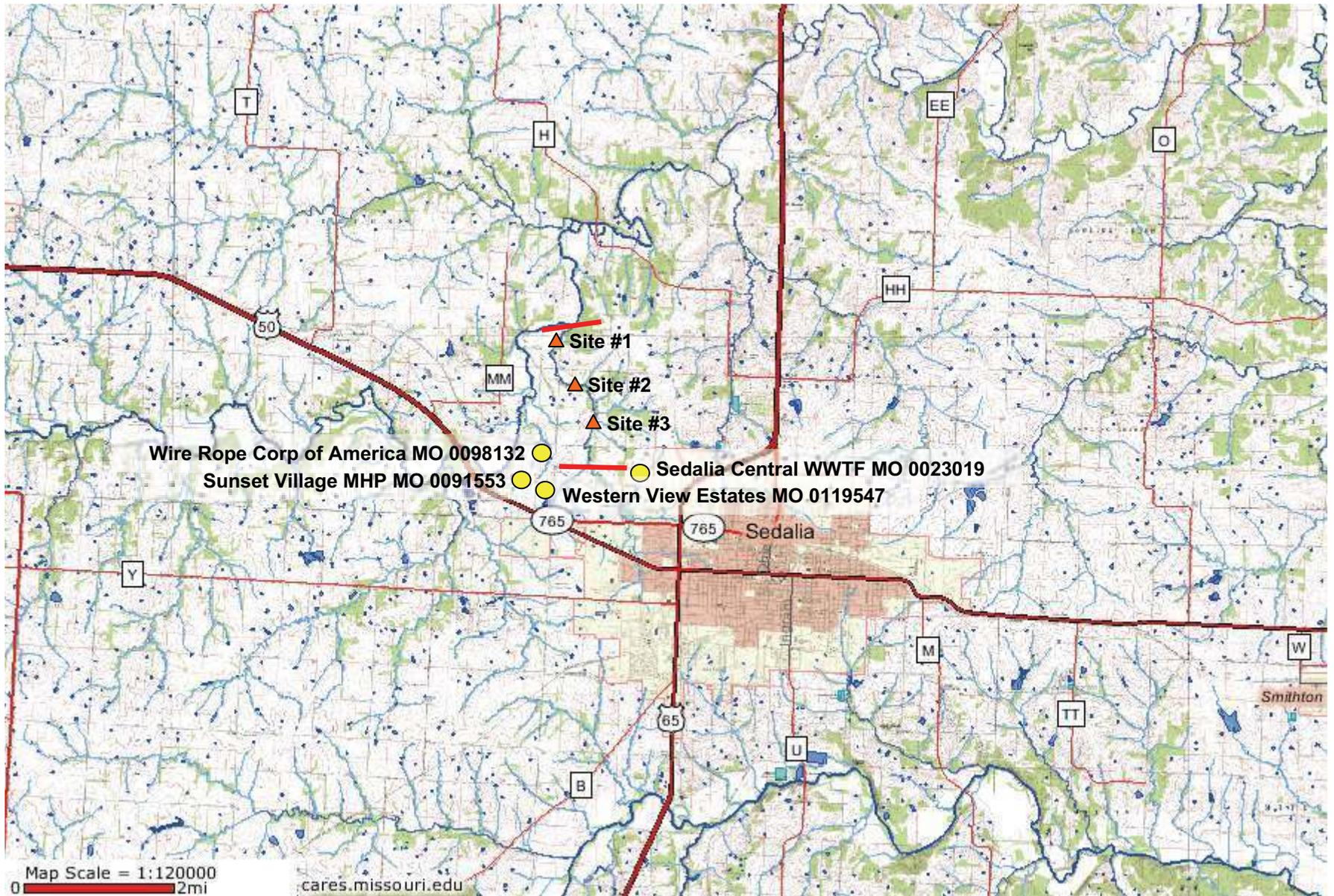
**IV. UAA Surveyor** (please print legibly)

Name of Surveyor	<i>Alan Mitchell</i>	Telephone Number:	<del>(913) 369-5290</del>
Organization/Employer:	<del>EAE</del> <i>EAE</i>		<i>(913) 620-4380</i>
Position:	<i>Environmental Engineer</i>		

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

Signed: *Alan Mitchell*

Date: *May 19, 2007*



Map Scale = 1:120000  
0 2mi

[cares.missouri.edu](http://cares.missouri.edu)



Brushy Creek  
WBID #859



WBID# 859  
 Site# 1

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

Date & Time: <u>9:25 am 5/19/2007</u>	Site Location Description (e.g., road crossing): <u>Near Yeater Rd</u>
Personnel (Data Collectors): <u>Alan Mitchell</u> <u>John Studtman</u>	<u>Road Crossing</u>
Current Weather Conditions: <u>Clear</u>	Facility Name: <u>Secunia (formerly WMTF, Sweet Village, N.H.)</u>
Weather Conditions for Past 10 days: <u>18 hrs Rain</u>	Permit Number: <u>M0023004, M00209553, M00209552, M00209551</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:**

<b>LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)</b>	
Site GPS Coordinates: UTM X: <u>9328064</u>	Y: <u>3874386° N</u>
<b>HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)</b>	
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
<b>HORIZONTAL ACCURACY ESTIMATE</b>	
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>17</u>		<u>18</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 <i>Data Sheet D- Recreational Use Interview</i> 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: <u>x/c evidence of human use</u>					

7% Channel Features

Run = 100%

Riffle = 0%

Pool = 0%

\* Page Two – Data Sheet B for WBID # 859 : Site #1

**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	25	7.0	15	1.0	>1.0

**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	40	5	20	0.1	0.
POOL					

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

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock

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

**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input 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 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 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: Mark D. St. John Date of Survey: May 19, 2007

Organization: EAE, Inc. Position: Env. Eng.

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

WBID # 859 Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect A	wetted width	0.1	① 0.1	1	Channel Feature:
	10 m	<0.1		2	RUN
		<0.1		3	
	measurements	<0.1		4	Dissolved Oxygen:
	0.1 m	<0.1		5	
	apart	0.1		6	9.10 ppm
		① 0.1	DO READING	7	91.3 %
		0.1		8	15.8°C
		0.1		9	
		0.1		10	
transect B	wetted width	0.1	① 0.1	12	Channel Feature:
	10.0 m	0.1		13	RUN
		0.1		14	
	measurements	0.1		15	Dissolved Oxygen:
	1.0 m	0.2		16	
	apart	① 0.2	DO READING	17	8.91 ppm
		0.2		18	89.4 %
		0.1		19	15.7°C
		0.1		20	
		0.1		21	
transect C	wetted width	0.1	② 0.2	23	Channel Feature:
	10.0 m	0.3		24	RUN
		0.3		25	
	measurements	① 0.3	DO READING	26	Dissolved Oxygen:
	1.0 m	0.3			
	apart	0.2			8.77 ppm
		0.1			87.1 %
		<0.1		n	15.6°C
		<0.1			
		<0.1			

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: [Signature]

Date: May 19, 2007

Organization: EHE, Inc.

Position: Env. Eng.

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

WBID # 859 Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect D	1 wetted width	0.1	@ 0.1	1 Channel Feature :	
	2 8.5 m	0.2		2 RUN	
	3	0.2		3	
	4 measurements	0.1		4 Dissolved Oxygen :	
	5 0.8 m	0.2	DO READING	5	
	6 apart	0.2		6 38.5 ppm	
	7	0.2		7 88.5 %	
	8	0.1		8 15.7°C	
	9	0.1		9	
	10	<0.1		10	
Transect E	1 wetted width	0.1	@ 0.2	12 Channel Feature :	
	2 10.0 m	0.1		13 RUN	
	3	0.1		14	
	4 measurements	0.2		15 Dissolved Oxygen :	
	5 0.6 m	0.2	DO READING	16	
	6 apart	0.2		17 8.91 ppm	
	7	0.2		18 89.2 %	
	8	0.1		19 15.6°C	
	9	0.3		20	
	10	<0.1		21	
Transect F	1 wetted width	0.1	@ 0.1	23 Channel Feature :	
	2 8.5 m	0.1		24 RUN	
	3	0.2	DO Reading	25	
	4 measurements	0.1		26 Dissolved Oxygen :	
	5 0.8 m	0.1			
	6 apart	0.1		8.61 ppm	
	7	0.1		90.0 %	
	8	0.1		15.6°C	
	9	0.1			
	10	<0.1			

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: Mark McCall

Date: July 19, 2007

Organization: EAE, Inc.

Position: Env. Eng.

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

WBID # 859 Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect G	wetted width	0.1	(0) 0.1	1	Channel Feature:
	8.5 m	0.1		2	RUN
		0.1		3	
	measurements	0.2		4	Dissolved Oxygen:
	0.7 m	0.2, 1		5	
	apart	0.2		6	8.73 ppm
		(0.3)		7	8.5 %
		0.3		8	15.5°C
		0.2		9	
		0.3		10	
transect H	wetted width	0.1	(0) 0.2	12	Channel Feature:
	9.5 m	0.2		13	RUN
		0.2		14	
	measurements	0.2		15	Dissolved Oxygen:
	0.9 m	(0.2)		16	
	apart	0.3		17	9.60 ppm
		0.3		18	86.2 %
		0.3		19	15.6°C
		0.1		20	
		0.1		21	
transect I	wetted width	0.1		23	Channel Feature:
	7.5 m	0.2		24	RUN
		(0.1)		25	
	measurements	<0.1		26	Dissolved Oxygen:
	0.7 m	<0.1			
	apart	<0.1			8.1 ppm
		<0.1			86.3 %
		0.1		n	15.4°C
		0.2			
		<0.1			

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: Wanda Mitchell

Date: May 19, 2007

Organization: BAE, Inc.

Position: Env. Eng.

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

WBID # 959

Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect J	1 wetted width	0.1		1	Channel Feature:
	2 _____ m	0.2		2	RUN
	3	0.1		3	
	4 measurements	0.1		4	Dissolved Oxygen
	5 _____ m	0.1		5	
	6 apart	0.1		6	3.4 ppm
	7	0.1		7	83.8 %
	8	<0.1		8	15.3 °C
	9	<0.1		9	
	10	0.1		10	
transect K	1 wetted width	0.1	0.1	12	Channel Feature:
	2 1.0 m	0.4		13	POOL RUN
	3	0.7		14	
	4 measurements	0.5		15	Dissolved Oxygen:
	5 0.7 m	0.5	DO	16	J
	6 apart	0.5		17	8.2 ppm
	7	0.3		18	81.5 %
	8	0.2		19	15.4 °C
	9	0.2		20	
	10	0.1		21	
transect	1 wetted width			23	Channel Feature:
	2 _____ m			24	
	3			25	
	4 measurements			26	Dissolved Oxygen
	5 _____ m			.	
	6 apart			.	ppm
	7			.	%
	8			n	
	9				
	10				

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: [Signature] Date: May 19, 2007

Organization: EAE, Inc. Position: Env. Eng.

WBID# 859  
 Site# 2

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

Date & Time: <u>10:35 am 5/1</u>	Site Location Description (e.g., road crossing): <u>NE of Oak Grove Lane</u>
Personnel (Data Collectors): <u>Alan Mitchell</u> <u>Jon Studtmann</u>	<u>ROAD CROSSING</u>
Current Weather Conditions: <u>Clear</u>	Facility Name: <u>Sedalia Central Water District</u>
Weather Conditions for Past 10 days: <u>48 hrs ago rain</u>	Permit Number: <u>MO0023010, MO0091553, MO0098133, MO0011154</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:**

<b>LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)</b>	
Site GPS Coordinates: UTM X:	Y:
<b>HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)</b>	
<b>Global Positioning System (GPS)</b>	<b>Interpolation</b>
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	
<b>HORIZONTAL ACCURACY ESTIMATE</b>	
<b>GPS Data Quality</b>	<b>Interpolation Data Quality</b>
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>20</u>		<u>19</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:

To Channel Feature

RUN =  
RIFFL  
Pool

\* Page Two - Data Sheet B for WBID # 859 : Sike #2

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)
RIFFL					
RUN	<u>30</u>	<u>9m</u>	<u>∞</u>	<u>0.3</u>	<u>0.5</u>
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)
RIFFL	<u>10m</u>	<u>2m</u>	<u>8</u>	<u>0.1</u>	<u>0.1</u>
RUN					
POOL					

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

<u>40</u> % Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	<u>60</u> % Bedrock
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Aquatic Vegetation\*: (Note amount of vegetation or algal growth at the assessment site)

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 type="checkbox"/> Fine sediments	<input checked="" 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: [Signature] Date of Survey: May 16, 2007

Organization: EHE, Inc Position: Surveyor

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

WBID # 859

Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.1	@ 0.4	1	Channel Feature:
	2 9.0 m	0.2		2	RUN
	3	0.2		3	
	4 measurements	(0.3)	DO READING	4	Dissolved Oxygen:
	5 0.9 m	0.3		5	
	6 apart	0.3		6	9.90 ppm
	7	0.2		7	96.4 %
	8	0.1		8	16.2°C
	9	<0.10		9	
	10	<0.1		10	
			11		
Transect B	1 wetted width	0.1	@ 0.3	12	Channel Feature:
	2 13.0 m	0.2		13	RUN
	3	0.2		14	
	4 measurements	<0.1		15	Dissolved Oxygen:
	5 1.3 m	0.3		16	
	6 apart	(0.3)	DO READING	17	9.61 ppm
	7	0.4		18	97.5 %
	8	0.4		19	16.2°C
	9	0.4		20	
	10	0.1		21	
			22		
Transect C	1 wetted width	0.1	@ 0.5	23	Channel Feature:
	2 8.0 m	0.2		24	RUN
	3	0.2		25	
	4 measurements	0.2		26	Dissolved Oxygen:
	5 0.8 m	(0.2)	DO READING	.	
	6 apart	0.2		.	9.74 ppm
	7	0.2		.	99.0 %
	8	0.2		n	16.3°C
	9	0.2			
	10	0.3			

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: Shirley W. Hill

Date: Mar 19, 2007

Organization: EAE, Inc

Position: Env. Eng.

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

WBID # 859 Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect D	wetted width	0.1	@ 0.3	1	Channel Feature:
	7.2 m	0.2		2	RIFLE
		0.2		3	
	measurements	0.2		4	Dissolved Oxygen:
	0.5 m	0.3	DO READINGS	5	
	apart	0.2		6	9.51 ppm
		0.2		7	96.7%
		0.1		8	16.3°C
		0.1		9	
		<0.1		10	
transect E	wetted width	0.1	@ 0.1	12	Channel Feature:
	7.0 m	0.2		13	RIFLE
		<0.1		14	
	measurements	0.1		15	Dissolved Oxygen:
	0.7 m	0.1		16	
	apart	0.1	DO READINGS	17	9.59 ppm
		0.1		18	97.4%
		<0.1		19	16.3°C
		0.1		20	
		0.1		21	
transect F	wetted width	0.1	@ 0.1	23	Channel Feature:
	7.5 m	0.4		24	POOL
		0.4		25	
	measurements	0.5	DO READINGS	26	Dissolved Oxygen:
	0.7 m	<0.1			
	apart	<0.1			9.50 ppm
		<0.1			96.6%
		0.2		n	16.3°C
		0.4			
		0.1			

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: [Signature]

Date: 4/16/07

Organization: EHE, Inc.

Position: Env. Field

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

WBID # 854 Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
crosssect G	wetted width	0.1	@ 0.6	1	Channel Feature:
	<u>4.0 m</u>	0.1		2	RUN
		0.1		3	
	measurements	0.1		4	Dissolved Oxygen:
	<u>0.4 m</u>	0.2		5	
	apart	(0.2)	DO READING	6	<u>9.65</u> ppm
		0.2		7	<u>98.0</u> %
		0.2		8	<u>16.2°C</u>
		0.1		9	
		0.1		10	
crosssect H	wetted width	0.1	@ 0.4	12	Channel Feature:
	<u>5.0 m</u>	<0.1		13	RIFFLE
		<0.1		14	
	measurements	<0.1		15	Dissolved Oxygen:
	<u>0.5 m</u>	<0.1		16	
	apart	(0.1)	DO READING	17	<u>9.81</u> ppm
		0.1		18	<u>99.7</u> %
		0.1		19	<u>16.2°C</u>
		0.1		20	
		<0.1		21	
crosssect I	wetted width	0.1	@ 0.2	23	Channel Feature:
	<u>10.0 m</u>	0.3		24	POOL
		0.3		25	
	measurements	0.4		26	Dissolved Oxygen:
	<u>1.0 m</u>	(0.4)	DO READING	.	
	apart	0.3		.	<u>9.77</u> ppm
		0.5		.	<u>99.0</u> %
		0.5		n	<u>16.3°C</u>
		0.4			
		<0.1			

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: Maureen Mitchell Date: May 19, 2007

Organization: EHE, Inc. Position: Env. Eng.

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

WBID # 359 Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect J	1 wetted width	5.1	0.2	1	Channel Feature:
	2 6.0 m	0.2		2	POOL
	3	0.1		3	
	4 measurements	0.2		4	Dissolved Oxygen
	5 0.6 m	0.3		5	
	6 apart	0.3	DO READING	6	10.2 ppm
	7	0.3		7	104.4 %
	8	0.2		8	16.6 °C
	9	0.1		9	
	10	<0.1		10	
transect K	1 wetted width	0.1	0.2	12	Channel Feature:
	2 4.0 m	0.3		13	RIFFLE
	3	0.3	DO READING	14	
	4 measurements	0.2		15	Dissolved Oxygen:
	5 0.4 m	0.1		16	
	6 apart	<0.1		17	10.3 ppm
	7	<0.1		18	107.1 %
	8	<0.1		19	16.7
	9	<0.1		20	
	10	<0.1		21	
transect	1 wetted width			23	Channel Feature:
	2 _____ m			24	
	3			25	
	4 measurements			26	Dissolved Oxygen:
	5 _____ m			.	
	6 apart			.	
	7			.	
	8			n	
	9				
	10				

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: Mark W. [Signature]

Date: May 18, 2007

Organization: EHE, Inc.

Position: Env. Engr.

WBID# 859  
 Site# 2

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

Date & Time: <u>5/19/2007</u>	Site Location Description (e.g., road crossing): <u>W of Chong Tree Lake</u>
Personnel (Data Collectors): <u>AW...</u>	<u>road crossing</u>
Current Weather Conditions: <u>Cloudy</u>	Facility Name: <u>St. Louis Central North Side Sewer Treatment Plant</u>
Weather Conditions for Past 10 days: <u>Cloudy</u>	Permit Number: <u>M00723019, M00091553, M00098132, M0009195</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:**

<b>LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)</b>	
Site GPS Coordinates: UTM X: <u>38.280270W</u>	Y: <u>38.742980N</u>
<b>HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)</b>	
<b>Global Positioning System (GPS)</b>	<b>Interpolation</b>
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	
<b>HORIZONTAL ACCURACY ESTIMATE</b>	
<b>GPS Data Quality</b>	<b>Interpolation Data Quality</b>
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>21</u>		<u>2</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: No Evidence of Human Use

2. Channel Flow  
Run  
11/11/07  
Flow

\* Page Two – Data Sheet B for WBID # 89 : Site #3

**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	230	7.0	20	0.3	0.5
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	230	9	10	0.1	0.1
RUN					
POOL					

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

50 % Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	50 % Bedrock
-------------	----------	--------	--------	------------	--------------

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

**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 type="checkbox"/> Fine sediments	<input checked="" 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: [Signature] Date of Survey: July 19, 2007

Organization: EAE, Inc. Position: Env. Eng.

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

WBID # 809

Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect A	1 wetted width	0.1	@ 0.4	1	Channel Feature:
	2 7.0 m	0.3		2	RUN
	3	0.2		3	
	4 measurements	0.3		4	Dissolved Oxygen:
	5 0.9 m	0.3		5	
	6 apart	0.5	NO READING	6	10.70 ppm
	7	0.3		7	110.7 %
	8	0.2		8	17.0°C
	9	0.1		9	
	10	<0.1		10	
transect B	1 wetted width	0.1	@ 0.4	12	Channel Feature:
	2 9.0 m	0.2		13	RUN
	3	0.2		14	
	4 measurements	0.1		15	Dissolved Oxygen:
	5 0.9 m	0.2		16	
	6 apart	0.4	NO READING	17	10.78 ppm
	7	0.4	NO READING	18	111.8 %
	8	0.5		19	17.1°C
	9	0.5		20	
	10	0.4		21	
transect C	1 wetted width	0.1	@ 0.1	23	Channel Feature:
	2 5.0 m	0.1		24	RIFPLE
	3	0.1		25	
	4 measurements	<0.1		26	Dissolved Oxygen:
	5 0.5 m	0.1		.	
	6 apart	<0.1		.	10.75 ppm
	7	0.1		.	112.5 %
	8	0.2	NO READING	n	17.2°C
	9	0.2			
	10	0.1			

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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: [Signature]

Date: May 9, 2007

Organization: EAE, Inc

Position: Env. Engr

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

WBID # 859 Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
insect D	1 wetted width	0.1	0.9	1	Channel Feature:
	2 10.0 m	0.1		2	RUN
	3	0.2		3	
	4 measurements	0.2		4	Dissolved Oxygen
	5 0.6 m	(0.2)	DO READING	5	
	6 apart	0.2		6	10.8 ppm
	7	0.1		7	112.3 %
	8	0.1		8	17.2°C
	9	0.1		9	
	10	<0.1		10	
insect E	1 wetted width	0.1	@ 0.2	12	Channel Feature:
	2 5.5 m	0.1		13	
	3	0.1		14	
	4 measurements	(0.1)	DO READING	15	Dissolved Oxygen:
	5 0.5 m	0.1		16	
	6 apart	0.1		17	10.92 ppm
	7	<0.1		18	113.7 %
	8	0.1		19	17.3°C
	9	<0.1		20	
	10	<0.1		21	
insect F	1 wetted width	<0.1	@ 0.5	23	Channel Feature:
	2 11.0 m	0.1		24	RUN
	3	0.1		25	
	4 measurements	0.1		26	Dissolved Oxygen
	5 1.1 m	(0.2)	DO READING	.	
	6 apart	0.1		.	11.03 ppm
	7	<0.1		.	115.2 %
	8	<0.1		n	17.4°C
	9	<0.1			
	10	<0.1			

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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: Alan M. [Signature]

Date: May 19, 2007

Organization: EAE, Inc.

Position: Env. Eng.

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

WBID # 851 Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transect G	wetted width	0.1	(2) 0.1	1	Channel Feature:
	<u>10.0 m</u>	0.2		2	RUN
		0.1		3	
	measurements	0.2		4	Dissolved Oxygen
	<u>0.1 m</u>	0.3		5	
	apart	(0.3)	DO READING	6	11.17 ppm
		0.2		7	11.7% %
		0.2		8	17.5°C
		0.1		9	
		0.1		10	
				11	
transect H	wetted width	0.1	(2) 0.3	12	Channel Feature:
	<u>5.5 m</u>	0.2		13	RUN
		0.3		14	
	measurements	0.3		15	Dissolved Oxygen:
	<u>   </u> m	0.3		16	
	apart	(0.3)	DO READING	17	11.42 ppm
		0.3		18	11.9% %
		0.3		19	17.7°C
		0.3		20	
		0.3		21	
				22	
transect I	wetted width	0.1	(2) 0.1	23	Channel Feature:
	<u>12.5 m</u>	0.1	1	24	RUN
		0.1		25	
	measurements	0.1		26	Dissolved Oxygen
	<u>   </u> m	0.1		.	
	apart	(0.2)	DO READING	.	11.25 ppm
		0.1		.	11.8% %
		20.1		n	17.8°C
		20.1			
		20.1			

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 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: [Signature] Date: May 19, 2007  
 Organization: EAE, Inc. Position: Env. Eng.

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

WBID # 859 Site # 3

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
transsect J	wetted width	0.1	@ 0.1	1	Channel feature:
	6.5 m	0.2		2	RIFT
		<del>0.3</del>	DO READING	3	
	measurements	0.2		4	Dissolved Oxygen
	0.6 m	<del>0.2</del>		5	
	apart	0.1		6	11.35 ppm
		0.2		7	119.2 %
		0.2		8	17.8%
		0.1		9	
		<0.1		10	
transsect K	wetted width	0.1	@ 0.3	12	Channel Feature:
	4.0 m	0.1		13	RIFT
		0.1		14	
	measurements	0.1		15	Dissolved Oxygen:
	0.4 m	0.1		16	
	apart	0.2		17	11.40 ppm
		<del>0.2</del>	DO READING	18	120.0 %
		0.2		19	17.8%
		0.1		20	
		<0.1		21	
transsect	wetted width			23	Channel Feature:
	_____ m			24	
				25	
	measurements			26	Dissolved Oxygen:
	_____ m			.	
	apart			.	_____ ppm
				.	_____ %
				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: Nancy Mitchell

Date: May 19, 2007

Organization: EAE, Inc.

Position: Env. Eng.



Upstream (Site 1) of Brushy Creek.



Downstream (Site 1) of Brushy Creek.



Upstream (Site 2) of Brushy Creek.



Downstream (Site 2) of Brushy Creek.



Upstream (Site 3) of Brushy Creek.



Downstream (Site 3) of Brushy Creek.

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name BRUSHY CREEK (WBID # 859)

**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: Michael Kreisel

Current mailing address: 22284 Cloney Rd.

Daytime phone number: (600) 827-5449

E-mail address (optional): \_\_\_\_\_

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

If yes, how many 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?

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

**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). \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

**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). \_\_\_\_\_

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**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). \_\_\_\_\_

---

---

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**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). \_\_\_\_\_

---

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**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: \_\_\_\_\_