



Use Attainability Analysis

for

WBID 268 Dillon Creek

Submitted by
BWR

June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

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):	Dillon Creek		
Missouri Water Body Identification (WBID) Number:	268		
8-digit HUC:	10240011	County:	Andrew 33.59 N 135W
Upstream Legal Description (from Table H):	Bridge Crossing DCR 365 (Downstream of Bridge)		
Downstream Legal Description (from Table H):	mouth		
Number of sites evaluated	3		
List all sites numbers, listed consequently upstream to downstream:	Site 1 - Upstream Site 2 - Mid Section Site 3 - Downstream		

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) *N/A*

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):	Savannah WWTF
Discharger Permit Number(s):	MO 0026336

IV. UAA Surveyor (please print legibly)

Name of Surveyor	Ryan Lutz	Telephone Number:	
Organization/Employer:	Seagull Environmental Technologies		
Position:	Environmental Scientist		

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

Signed: Ryan M. Lutz

Date: 05-29-07



Dillon Creek
WBID #268



WBID# 268
 Site# 1

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

Date & Time: <u>05/29/07 14:30</u>	Site Location Description (e.g., road crossing): <u>BRIDGE CROSSING GSR 365 (DOWNSTREAM OF BRIDGE)</u>
Personnel (Data Collectors): <u>Bartlett & Lunt</u>	Facility Name: <u>Socva Creek WWTP</u>
Current Weather Conditions: <u>OVERCAST, 80°F</u>	Permit Number: <u>MO 002103310</u>
Weather Conditions for Past 10 days: <u>CLEAR, RAIN</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>39.89998</u>	Y: <u>094.82339</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: 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>268-6, 7</u>	<u>TRANSVERSE</u>	<u>268-13, 14</u>	<u>TRANSVERSE B-A</u>	<u>268-15</u>	<u>MINE OPERATIONS RUNOFF</u>

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

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

Comments: Mining activities

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 checked="" type="checkbox"/> Other:	

Comments: MINING OPERATION ALONGST (EAST FROM SITE 1 ON GSR) TO SITE "1"

0% CHANNEL FEATURES

* Page Two - Data Sheet B for WBID # 208 : SITE # 1

RUN - 60%
RIFLE - 30%
POOL - 10%

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)
RIFLE					
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)
RIFLE					
RUN					
POOL					

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

<u>75</u> % Cobble	% Gravel	<u>25</u> % Sand	% Silt	% Mud/Clay	% 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 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 type="checkbox"/> None	<input checked="" type="checkbox"/> Other: <u>Mineral Activities</u>

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: Kevin M. Lucas Date of Survey: 05-29-07

Organization: Seagull Environmental Technology Position: ENVIRONMENTAL SCIENTIST

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

WBID # 208

Site # 1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	<0.1			
	2 10.7 m	<0.1		1 Channel Feature:	
	3	0.1		2 RIFFLE 20%	
	4 measurements	0.1		3 RUN 80%	
	5 0.67 m	0.1		4 Dissolved Oxygen	
	6 apart	0.1		5	
	7	0.1		6 7.76	ppm
	8	0.1		7 88.8	%
	9	0.1		8	
	10	0.2		9	
Transect B	1 wetted width	0.1		10	
	2 4.0 m	0.1		11	
	3	0.2		12 Channel Feature:	
	4 measurements	0.2		13 RUN 90%	
	5 0.40 m	0.2		14 RIFFLE 10%	
	6 apart	0.2		15 Dissolved Oxygen:	
	7	0.2		16	
	8	0.3		17 7.64	ppm
	9	0.3		18 88.4	%
	10	0.3		19	
Transect C	1 wetted width	0.1		20	
	2 5.0 m	0.1		21	
	3	0.1		22	
	4 measurements	0.2		23 Channel Feature:	
	5 0.50 m	0.2		24 RIFFLE 20%	
	6 apart	0.2		25 RUN 10% POH 70%	
	7	0.3		26 Dissolved Oxygen	
	8	0.4		27	
	9	0.5		28 7.50	ppm
	10	0.3		29 88.4	%

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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: Raymond M. Hunt

Date: 05-29-07

Organization: SOTR

Position: Environmental Scientist

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

WBID # 208

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect D	1 wetted width	0.3			
	2 4.5 m	0.4		1	Channel Feature:
	3	0.5		2	Run 100%
	4			3	
	5 measurements	0.5		4	Dissolved Oxygen:
	6 0.45 m	0.5		5	
	7 apart	0.6		6	7.35 ppm
	8	0.6		7	84.0 %
	9	0.5		8	
	10	0.4		9	
Transect E	1	0.3		10	
	2 wetted width	0.1		11	
	3 8.2 m	0.2		12	Channel Feature:
	4	0.2		13	RIFLE 20%
	5 measurements	0.2		14	Run 80%
	6 0.82 m	0.2		15	Dissolved Oxygen:
	7 apart	0.1		16	
	8	0.1		17	7.78 ppm
	9	0.1		18	88.6 %
	10	0.1		19	
Transect F	1	0.1		20	
	2 wetted width	0.2		21	
	3 4.3 m	0.2		22	
	4	0.2		23	Channel Feature:
	5 measurements	0.1		24	RIFLE 10%
	6 0.45 m	0.1		25	Run 90%
	7 apart	0.2		26	Dissolved Oxygen:
	8	0.2			7.60 ppm
	9	0.1			86.5 %
	10	0.1		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth 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 UA datasheet is true and accurate.

Signed: Ryan M. Lund

Date: 05-29-07

Organization: SETD

Position: Environmental Scientist

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

WBID # 208

Site # 1

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	0.1			
	5.5 m	0.1		1	Channel Feature:
		0.1		2	RIFPLE 75%
	measurements	0.1		3	RUN 75%
	0.55 m	0.1		4	Dissolved Oxygen
	apart	0.1		5	
		0.1		6	7.69 ppm
		0.1		7	87.6%
		0.1		8	
		0.1		9	
Transect H	wetted width	<0.1			
	6.0 m	0.1		11	
		0.2		12	Channel Feature:
	measurements	0.1		13	RUN 100%
	0.6 m	0.2		14	
	apart	0.2		15	Dissolved Oxygen:
		0.2		16	
		0.2		17	7.58 ppm
		0.2		18	86.2%
		0.3		19	
Transect I	wetted width	0.1			
	4.0 m	0.2			
		0.2		22	
	measurements	0.2		23	Channel Feature:
	0.40 m	0.2		24	RUN 100%
	apart	0.2		25	
		0.2		26	Dissolved Oxygen
		0.2			7.57 ppm
		0.3			86.2%
		0.3		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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: Ryan M. Linn

Date: 05-29-07

Organization: SETI

Position: Environmental Scientist

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

WBID # 268

Site # 1

Transsect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
J	wetted width	0.3			
	6.3 m	0.2		1	Channel Feature: 100%
				2	Flow
		0.3		3	
	measurements	0.2		4	Dissolved Oxygen
	0.63 m	0.3		5	
	apart	0.3		6	7.96
		0.3		7	85.3 ppm
		0.2		8	
		0.3		9	
K				10	
				11	
	wetted width	0.1		12	Channel Feature: 100%
	6.0 m	0.3		13	100% Run
		0.3		14	
	measurements	0.3		15	Dissolved Oxygen:
	0.80 m	0.2		16	
	apart	0.2		17	7.96
		0.2		18	85.3 ppm
		0.2		19	
L		0.3		20	
		0.3		21	
	wetted width			22	
	_____ m			23	Channel Feature:
				24	
	measurements			25	
	_____ m			26	Dissolved Oxygen:
	apart			.	
				.	ppm
				n	%

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth 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: Ryan Mc L...

Date: 05-29-07

Organization: SETI

Position: Environmental Scientist

WBID# 268
 Site# 2

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

Date & Time: <u>05/07/07 1540</u>	Site Location Description (e.g., road crossing): <u>BRIDGE CROSSING HWY DD (JUST SOUTH OF CR 372)</u>
Personnel (Data Collectors): <u>BRUCE & JON</u>	Facility Name: <u>SOUNDWATER WWTF</u>
Current Weather Conditions: <u>OVERCAST, 20°F</u>	Permit Number: <u>MO 0026336</u>
Weather Conditions for Past 10 days: <u>RAIN, CLEAR</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>59.86745</u>	Y: <u>094,82274</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: 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>268-20, 21</u>	<u>TRANSECT J-K</u>	<u>268-18, 19</u>	<u>TRANSECT E-A</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 type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other:

Comments: FARM LAND (GROW CROPS)

Indications of Human Use*: (attach photos)

<input checked="" 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: HWY 71 & HWY DD

90 CHANNEL FEATURES

* Page Two - Data Sheet B for WBID # 2108: SITE # 2

Run - 20%
Riffle - 20%
Pool -

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%.)

<u>40</u> % Cobble	<u>20</u> % Gravel	<u>20</u> % Sand	<u>20</u> % Silt	% Mud/Clay	% 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 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: Ryan M. Lutz Date of Survey: 05-29-07

Organization: SETI Position: Environmental Scientist

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

WBID # 208

Site # 2

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	1 wetted width	0.2			
	2 6.5 m	0.3		1 Channel Feature:	
	3	0.3		2 RIFLE	10%
	4 measurements	0.3		3 Run	90%
	5 0.65 m	0.3		4 Dissolved Oxygen	
	6 apart	0.7		5	
	7	20.1		6 7.64	ppm
	8	0.1		7 88.4	%
	9	0.1		8	
	10	<0.1		9	
Transect B	1 wetted width	0.1			
	2 5.5 m	0.1			
	3	0.2		12 Channel Feature:	
	4 measurements	0.2		13 Run	100%
	5 0.55 m	0.2		14	
	6 apart	0.2		15 Dissolved Oxygen:	
	7	0.2		16	
	8	0.2		17 7.92	ppm
	9	0.2		18 92.7	%
	10	0.2		19	
Transect C	1 wetted width	0.1			
	2 4.3 m	0.1			
	3	0.2		23 Channel Feature:	
	4 measurements	0.2		24 RIFLE	50%
	5 0.43 m	0.2		25 Run	50%
	6 apart	0.1		26 Dissolved Oxygen	
	7	0.2		27	
	8	0.3		28 8.01	ppm
	9	0.2		29 92.6	%
	10	0.1		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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: Ryan M. Lewis

Date: 05-29-07

Organization: SETI

Position: Environmental

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

WBID # 208

Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
D	wetted width	0.1			
	6.0 m	0.1		1	Channel Feature:
		0.1		2	RUN 100%
		0.1		3	
	measurements	0.1		4	Dissolved Oxygen:
	0.6 m	0.1		5	
	apart	0.1		6	7.78 ppm
		0.2		7	89.4%
		0.2		8	
		0.2		9	
E	wetted width	0.1		11	
	7.0 m	0.2		12	Channel Feature:
		0.2		13	RUN 100%
		0.2		14	
	measurements	0.1		15	Dissolved Oxygen:
	0.70 m	0.1		16	
	apart	0.2		17	7.98 ppm
		0.2		18	91.1%
		0.2		19	
		0.2		20	
F	wetted width	0.1		22	
	11 m	0.3		23	Channel Feature:
		0.3		24	RUN 100%
		0.3		25	
	measurements	0.2		26	Dissolved Oxygen:
	1.1 m	<0.1			
	apart	<0.1			
		<0.1			
		<0.1			
		0.2		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth 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 UA datasheet is true and accurate.

Signed: Ryan M. Hunt Date: 05-22-07
 Organization: SBTI Position: Environmental
 S. Smalley

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

WBID # 208

Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	0.1			
	4.0 m	0.2		1	Channel Feature:
		0.2		2	RIFFLE 70%
	measurements	0.3		3	RUN 30%
	0.40 m	0.2		4	Dissolved Oxygen
	apart	0.2		5	
		0.2		6	7.67 ppm
		0.2		7	20.7%
		0.1		8	
		0.1		9	
Transect H	wetted width	20.1		10	
	3.2 m	20.1		11	
		0.1		12	Channel Feature:
	measurements	0.1		13	Run 100%
	0.32 m	0.2		14	
	apart	0.2		15	Dissolved Oxygen:
		0.2		16	
		0.2		17	7.84 ppm
		0.2		18	40.7%
		0.3		19	
Transect I	wetted width	0.1		20	
	6.0 m	0.1		21	
		0.1		22	
	measurements	0.1		23	Channel Feature:
	0.60 m	0.2		24	Run 100%
	apart	0.3		25	
		0.4		26	Dissolved Oxygen
		0.5			
		0.2			7.66 ppm
		0.4			20.7%

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth t 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: Reynolds Date: 05-29-07
 Organization: Seagull Environmental Position: Environmental Scientist

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

WBID # 268

Site # 2

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect 1	wetted width	0.1			
	8.2 m	0.2		1	Channel Feature:
		0.2		2	Run 100%
	measurements	0.2		3	
	0.82 m	0.1		4	Dissolved Oxygen
	apart	0.1		5	
		0.1		6	7.62 ppm
		0.1		7	88.1%
		0.1		8	
		0.1		9	
Transect 2	wetted width	<0.1		10	
	5.0 m	<0.1		11	
		0.1		12	Channel Feature:
	measurements	0.1		13	Run 100%
	0.5 m	0.1		14	
	apart	0.1		15	Dissolved Oxygen:
		0.2		16	
		0.3		17	7.57 ppm
		0.3		18	87.9%
		0.1		19	
Transect 3	wetted width			20	
	_____ m			21	
				22	
	measurements			23	Channel Feature:
	_____ m			24	
	apart			25	
				26	Dissolved Oxygen
				.	
				.	_____ ppm
				n	_____ %

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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: Ryan Mc Lure

Date: 05-29-07

Organization: SETI

Position: Environmental

WBID# 208
 Site# 3

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: <u>05/29/07 16:45</u>	Site Location Description (e.g., road crossing): <u>CR 375 BRIDGE CROSSING (UPSTREAM)</u>
Personnel (Data Collectors): <u>BARTLETT & LUNT</u>	Facility Name: <u>Savannah LUNT</u>
Current Weather Conditions: <u>OVERCAST, 80°</u>	Permit Number: <u>MA00262310</u>
Weather Conditions for Past 10 days: <u>RAIN, CLEAR</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: 39.25895 Y: 094.86734

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	± _____ Feet or ± _____ Meters	
PDOP			

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>268-24,25, 26 TRAIL I-K</u>		<u>268-22,73</u>	<u>TRAIL I-K</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 checked="" type="checkbox"/> Other:

Comments: AGRICULTURE (ROW CROPS)

Indications of Human Use*: (attach photos)

<input checked="" 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: HWY 229 & CR 375

910 CHANNEL FEATURES

Run - 100%
Riffle -
Pool -

* Page Two - Data Sheet B for WBID # 2108: 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					
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>5</u> % Cobble	% Gravel	<u>80</u> % Sand	<u>15</u> % Silt	% Mud/Clay	% Bedrock
-------------------	----------	------------------	------------------	------------	-----------

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

SPARSE POLYPTERIS ON COBBLE SUBSTRATE

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: Ryan M. Lund Date of Survey: 05-29-07

Organization: SETI Position: Environmental Scientist

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

WBID # 268

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect A	wetted width	0.2			
	8.0 m	0.2		1	Channel Feature:
				2	RUN 100%
		0.2		3	
	measurements	0.2		4	Dissolved Oxygen
	0.20 m	0.2		5	
	apart	<0.1		6	7.02 ppm
		<0.1		7	83.6 %
		<0.1		8	
		<0.1		9	
Transect B	wetted width	0.2			
	7.5 m	0.2		12	Channel Feature:
				13	100% RUN
		0.2		14	
	measurements	0.2		15	Dissolved Oxygen:
	0.75 m	0.2		16	
	apart	0.1		17	7.12 ppm
		0.1		18	86.9 %
		0.1		19	
		<0.1		20	
Transect C	wetted width	0.2			
	6.5 m	0.2		23	Channel Feature:
				24	RUN 100%
		0.1		25	
	measurements	0.1		26	Dissolved Oxygen
	0.65 m	0.1			
	apart	0.2			7.05 ppm
		0.2			83.9 %
		0.2		n	
		0.3			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth 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 U.A. datasheet is true and accurate.

Signed: Ryan M. Lusk

Date: 05-29-07

Organization: SBTF

Position: Environmental Scientist

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

WBID # 208

Site # 3

Transect/D	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	wetted width	0.1			
2	3.2 m	0.2		1	Channel Feature:
3		0.2		2	Run 100%
4	measurements	0.2		3	
5	0.55 m	0.3		4	Dissolved Oxygen
6	apart	0.2		5	
7		0.2		6	7.08 ppm
8		0.1		7	84.5 %
9		0.1		8	
10		0.1		9	
				10	
				11	
Transect E 1	wetted width	0.2			
2	3.5 m	0.2		12	Channel Feature:
3		0.2		13	Run 100%
4	measurements	0.1		14	
5	0.85 m	0.1		15	Dissolved Oxygen:
6	apart	0.1		16	
7		0.1		17	7.11 ppm
8		<0.1		18	84.5 %
9		<0.1		19	
10		<0.1		20	
				21	
				22	
Transect F 1	wetted width	0.1			
2	6.0 m	0.1		23	Channel Feature:
3		0.2		24	Run 100%
4	measurements	0.2		25	
5	0.6 m	0.2		26	Dissolved Oxygen
6	apart	0.2			
7		0.2			7.18 ppm
8		0.1			84.5 %
9		0.1		n	
10		0.1			

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth 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 UA datasheet is true and accurate.

Signed: _____ Date: _____

Organization: _____ Position: _____

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

WBID # 208

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
Transect G	wetted width	< 0.1			
	7.0 m	< 0.1		1	Channel Feature:
				2	RUN 100%
				3	
	measurements	0.1		4	Dissolved Oxygen
	0.9 m	0.1		5	
	apart	0.1		6	7.08 ppm
		0.1		7	82.9%
		0.2		8	
		0.2		9	
Transect H	wetted width	0.1		10	
	8.7 m	0.1		11	
		< 0.1		12	Channel Feature:
		< 0.1		13	RUN 100%
	measurements	< 0.1		14	
	0.87 m	< 0.1		15	Dissolved Oxygen:
	apart	< 0.1		16	
		0.1		17	7.05 ppm
		0.2		18	82.7%
		0.2		19	
Transect I	wetted width	< 0.1		20	
	6.5 m	< 0.1		21	
		0.1		22	
		0.1		23	Channel Feature:
	measurements	0.1		24	RUN 100%
	0.65 m	0.1		25	
	apart	0.3		26	Dissolved Oxygen
		0.3			6.99 ppm
		0.3			82.5%
		0.2		n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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: Ryan M. Lurt

Date: 05-29-07

Organization: S&T

Position: Environmental

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

WBID # 208

Site # 3

Transect	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
J	wetted width	0.2			
	8.0 m	0.2		1	Channel Feature:
				2	RUN 100%
				3	
	measurements	0.2		4	Dissolved Oxygen
	0.50 m	0.1		5	
	apart	0.1		6	7.02 ppm
		<0.1		7	88.4 %
		<0.1		8	
		<0.1		9	
K	wetted width	0.1			
	7.5 m	0.1		12	Channel Feature:
				13	RUN 100%
				14	
	measurements	0.1		15	Dissolved Oxygen:
	0.75 m	0.1		16	
	apart	0.1		17	7.10 ppm
		0.1		18	84.2 %
		0.1		19	
		0.2		20	
L	wetted width				
	_____ m			23	Channel Feature:
				24	
				25	
	measurements			26	Dissolved Oxygen:
	_____ m			.	
	apart			.	
				.	
				n	

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth is 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 UAL datasheet is true and accurate.

Signed: Ryan M. Lund

Date: 05-29-07

Organization: SETZ

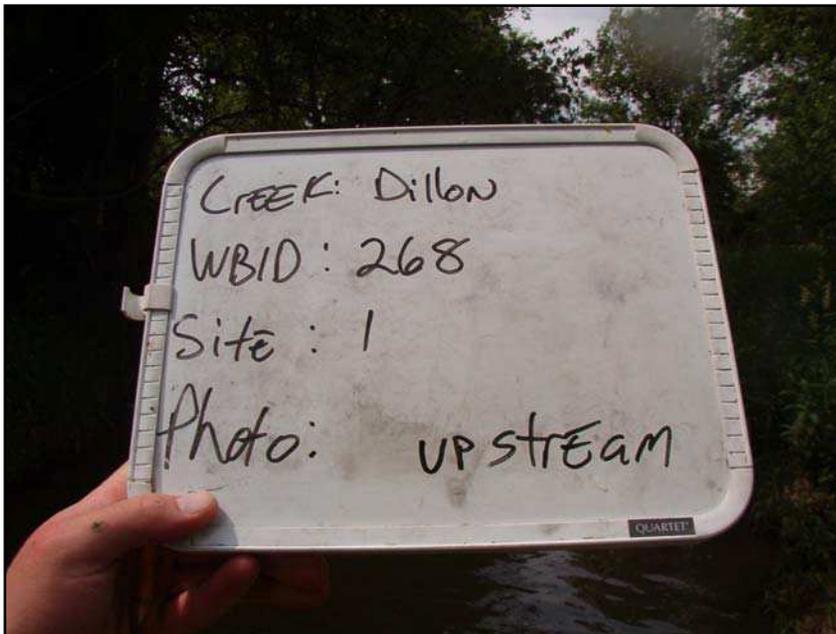
Position: Environment/Swifted



Downstream (Site #1) of Dillon Creek.



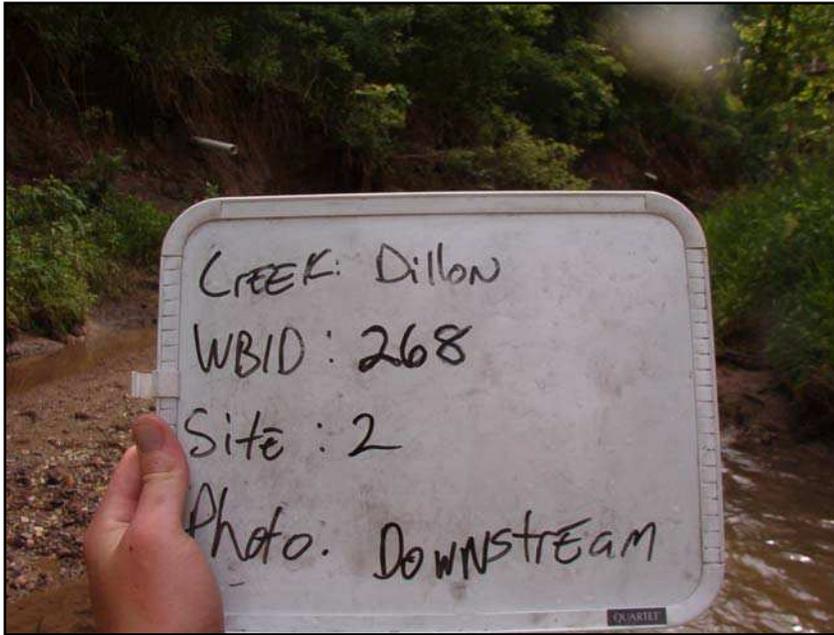
Downstream (Site #1) of Dillon Creek.



Upstream (Site #1) of Dillon Creek.



Upstream (Site #1) of Dillon Creek.



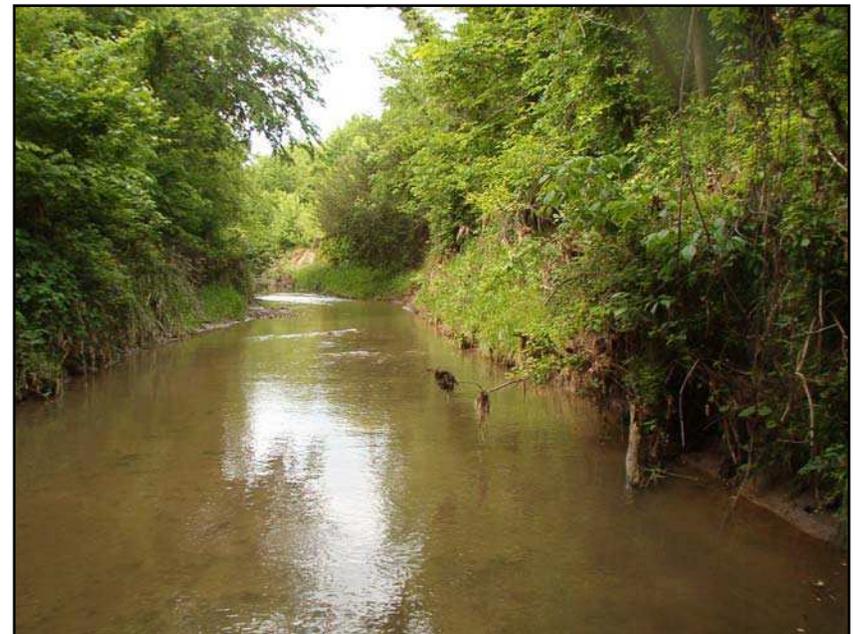
Downstream (Site #1) of Dillon Creek.



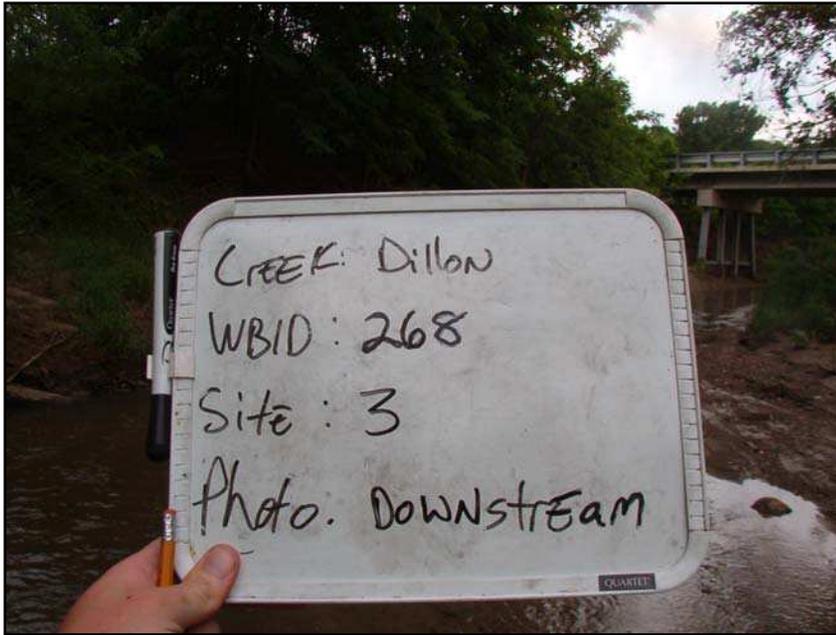
Downstream (Site #1) of Dillon Creek.



Upstream (Site #2) of Dillon Creek.



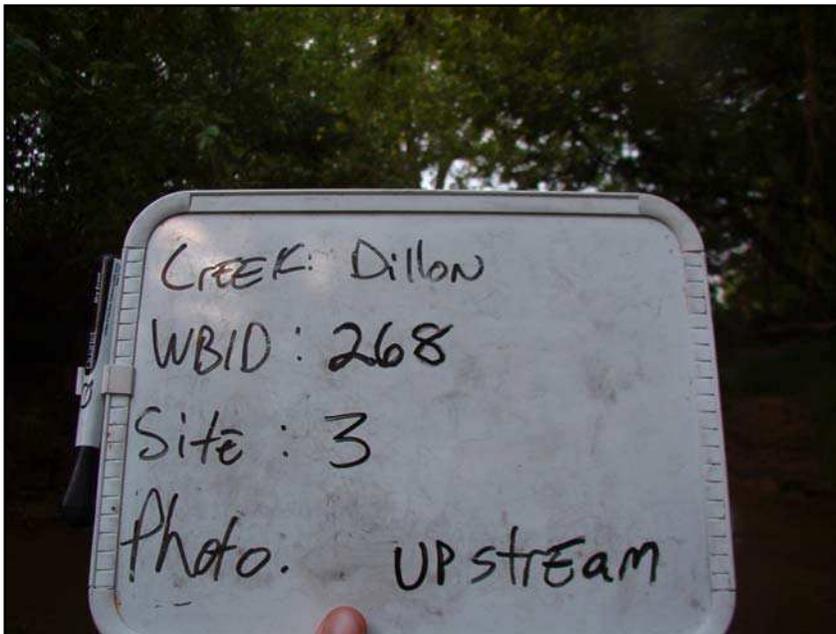
Upstream (Site #2) of Dillon Creek.



Downstream (Site #3) of Dillon Creek.



Downstream (Site #3) of Dillon Creek.



Upstream (Site #3) of Dillon Creek.



Upstream (Site #3) of Dillon Creek.



Outfall near downstream (Site #1) of Dillon Creek.

CALL
FIRST!

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name DILLON CREEK (WBID # 7-3)

I. Introduction

Date & Time (include AM or PM): 2:45 5/11/07

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: JANE DAVIS
Current mailing address: 1203 E Liberty Road 365 Sumner MO
Daytime phone number: (816) 324-5035 64485
E-mail address (optional): _____

2.a.) Do you live in this area? Yes No
If yes, how many years? 19 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.
Too muddy

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: Please Call Prior to going to Creek

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 Dillon Creek (WBID # 768)

I. Introduction

Date & Time (include AM or PM): 2:30 pm 5/24/07

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.) AWAY FROM
AT ACCESS POINT AND CREEK

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: JEFF BAUMANN
Current mailing address: 14063 State Route 24, Savannah MO
Daytime phone number: (816) 330-4386 64485
E-mail address (optional):

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

If yes, how many years? 2 years from the time of last

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.

Farm Has Springs for water

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: Contact Jeff BAUMANN AT
816-390-4151 or 816-324-4386 HE can
Show how to Access this Creek WITHOUT
"HIKING" IN . . .

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 _____ (WBID # _____)

I. Introduction

Date & Time (include AM or PM): 3:15 5/24/07

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: SHARLA BOYER

Current mailing address: 17379 State Fete Dr. Savannah Mo

Daytime phone number: (816) 294-9276 64485

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.

no reason to use it

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). _____

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: Shown as tract E.B in Plat book
S.E. cor REED & ROAD 362

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: _____