

Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1698 Fiddle Creek

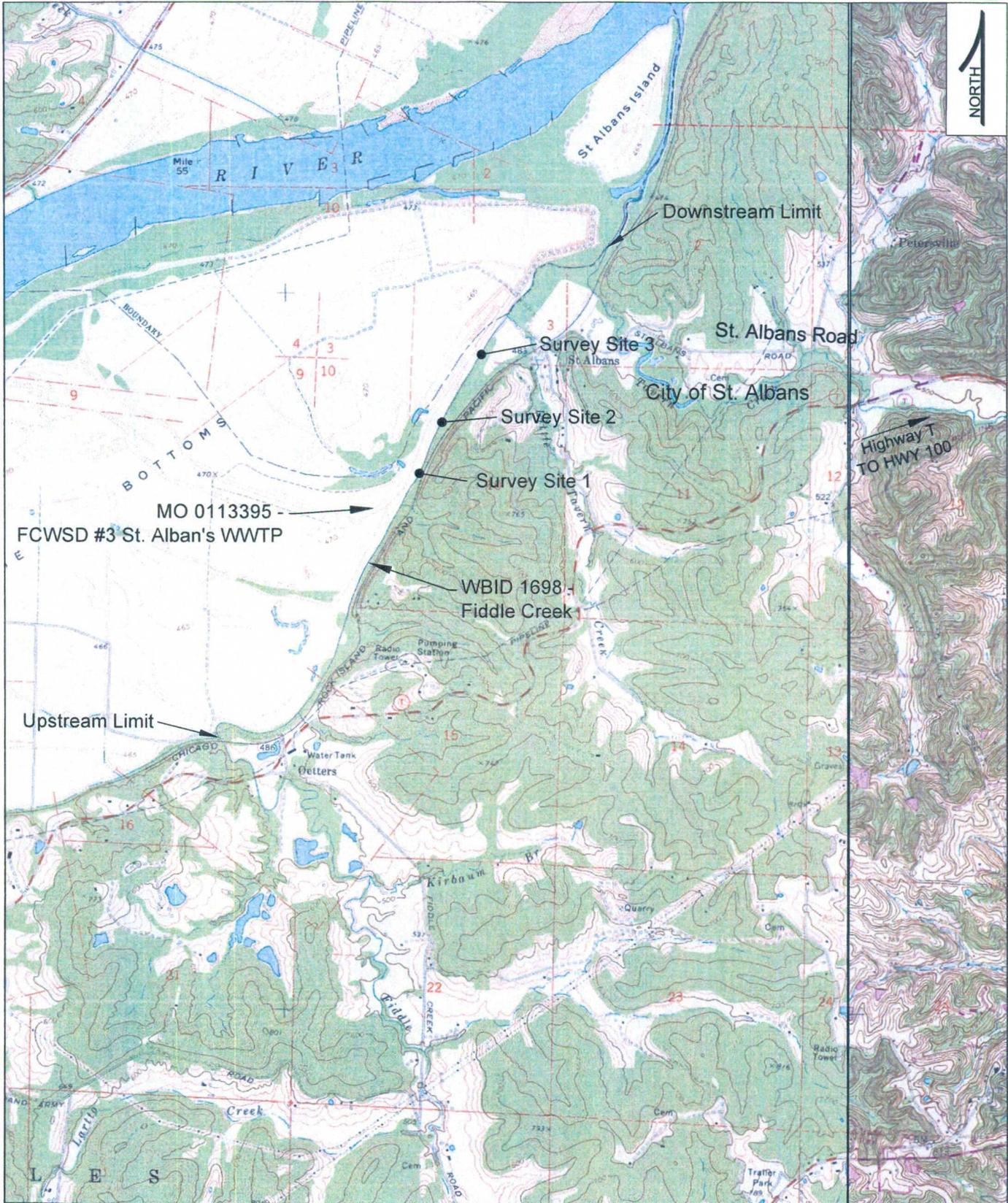
Submitted by

Pickett Ray & Silver, Inc.

to

Missouri Department of Natural Resources
Water Protection Program

Date received: August 23, 2007



MO 0113395 -
FCWSD #3 St. Alban's WWTP

WBID 1698 -
Fiddle Creek

PICKETT RAY & SILVER
Civil Engineers Land Surveyors Natural Resources

Address: 333 Mid Rivers Mall Drive
St. Peters, Missouri 63376
Phone: (636) 397-1211
Fax: (636) 397-1104
Website: www.prs3.com

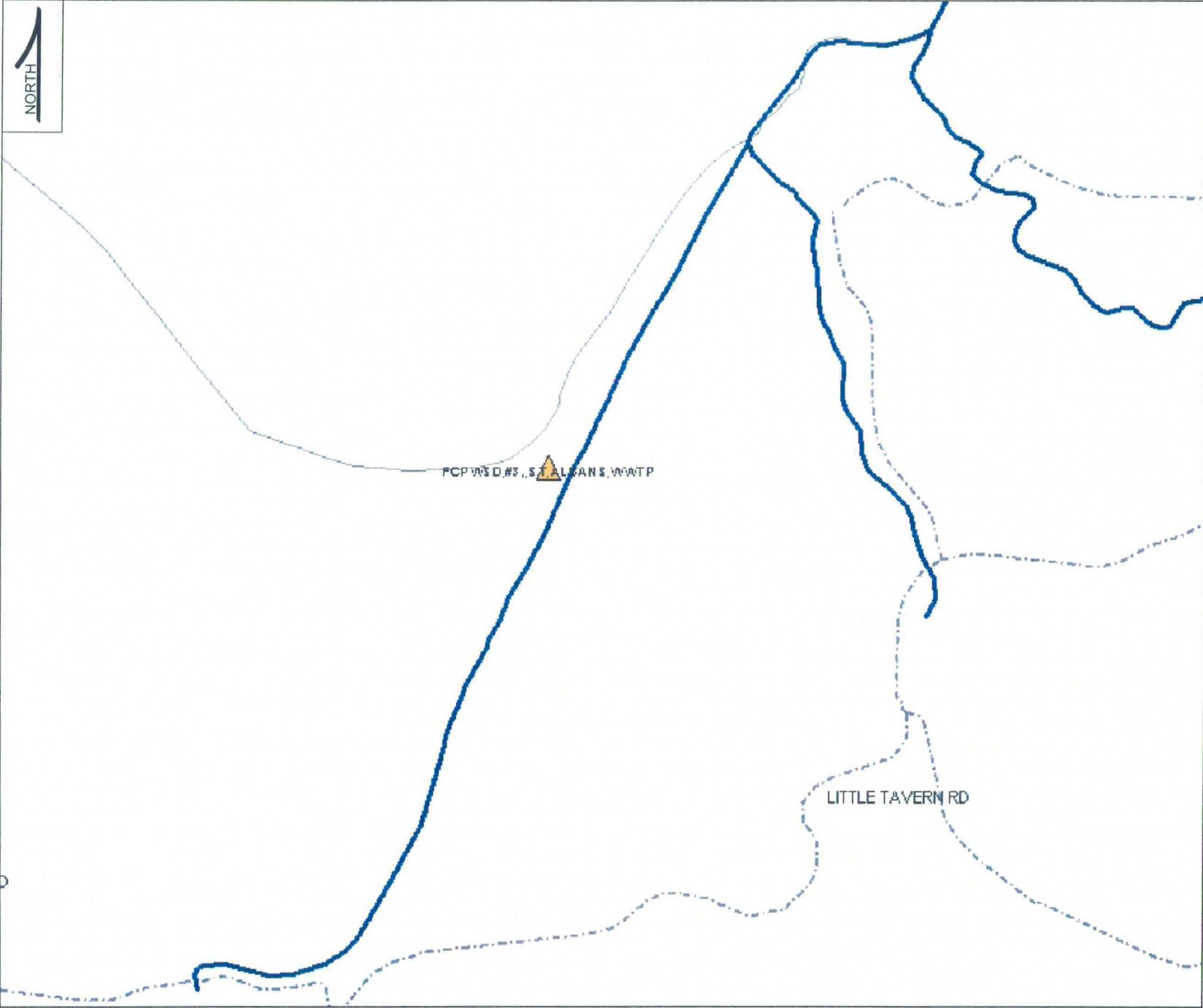
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WBID #: 1698
Fiddle Creek
County: Franklin
USGS Location Map



GRAPHIC SCALE
Not to Scale

PRS Job Number: 07031.MODN.00E
Drawn By: MGC Date: 08-15-07
Checked By: JCV Date: 08-15-07



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 Civil Engineers Land Surveyors Natural Resources
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WBID #: 1698
 Fiddle Creek
 County: Franklin
 GIS Map

GRAPHIC SCALE
 Not to Scale
 PRS Job Number: 07031.MODN.00E
 Drawn By: MGC Date: 08-15-07
 Checked By: JCV Date: 08-15-07

WBID# 1698
 Site# 1698-1

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

Date & Time: 8/14/07 7:45 a.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): MC & LS	200 m from WWTF
Current Weather Conditions: 75°C, humid, clear	Facility Name: FCP WSD #3 St. Alban's WWTP
Weather Conditions for Past 10 days: Rain and sun	Permit Number: MO0113395
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: 69317.742 m	Y: 4271634.225 m
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 Correction with <input checked="" type="checkbox"/>
Real Time Differential Processing	Post Processing
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP 3.3	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
See Attached Photos					

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 type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other: RR tracks & levee
Comments:				

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: Road along levee					

* Page Two – Data Sheet B for WBID # 1698 :

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

Approximate percentage of channel features for entire segment site

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	100%				
POOL					

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

% Cobble	% Gravel	% Sand	100	% Silt	% Mud/Clay	% Bedrock
----------	----------	--------	-----	--------	------------	-----------

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

Duckweed - completely covering water surface

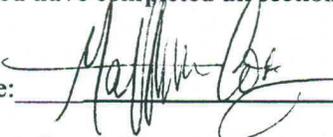
Water Characteristics*: (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input checked="" 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 checked="" type="checkbox"/> Other: Vegetation

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:  Date of Survey: 8/14/07

Organization: Pickett, Ray & Silver, Inc. Position: Staff Scientist/Field Team Leader

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1698</u> Site #: <u>1698-1</u> Weather Conditions: <u>75°, Clear, Humid</u> GPS Location: UTM X: <u>693170.742 m</u> UTM Y: <u>4271634.225 m</u> Horizontal Accuracy Estimate (GPS Data Quality): +/- <u>N/A</u> (feet) PDOP: <u>3.3</u> Average Stream Width: <u>10</u> (meters) Length of Survey Segment: <u>200</u> (meters) Field Staff: <u>Matt Cosby and Lauren Strange</u>	<b style="text-align: center;">Dissolved Oxygen Dissolved Oxygen: <u>2.21</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>24.6</u> (°C)
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Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)																				
1	0	.1		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
2	1	.31		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
3	2	.42		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
4	3	.49		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
5	4	.51		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
6	5	.51		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
7	6	.49		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
8	7	.55		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
9	8	.4		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
10	9	.2		>1		>1		>1		>1		>1		>1		>1		>1		>1		>1
11	10	.1																				
Width/Median Depth	10.5	.42	9		10		12		12		8		8		11		9		8		7	
Feature Type (riffle, run, or pool)	Run																					

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.
 GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Matthew Cosby Date: 8/15/07

Site Maximum >1.00

Site Median 1.00

WBID# 1698
 Site# 1698-2

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

Date & Time: 8/14/07 9:00 a.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): MC & LC	Adjacent to levee
Current Weather Conditions: 75°, humid, clear	Facility Name: FCP WSD #3 St. Alban's WWTP
Weather Conditions for Past 10 days: Rain and sun	Permit Number: MO0113395
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: 693350.077 m	Y: 4272034.586 m
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
<input checked="" type="checkbox"/> Global Positioning System (GPS)	<input type="checkbox"/> Interpolation
Static Mode	<input type="checkbox"/> Topographic Map or DRG
Dynamic Mode (Kinematic)	<input type="checkbox"/> Aerial Photograph or DOQQ
Precise Positioning Service	<input type="checkbox"/> Satellite Imagery
Signal Averaging	<input type="checkbox"/> Interpolation Other <input type="checkbox"/> Real Time Differential Correction with <input checked="" type="checkbox"/> X
Real Time Differential Processing	<input type="checkbox"/> Post Processing
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM ± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters
EPE ± _____ Feet or ± _____ Meters	
PDOP 3.6	

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
See Attached Photos					

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 type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other: RR tracks & levee
Comments:				

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: Road along levee					

* Page Two – Data Sheet B for WBID # 1698-2 :

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)
RIFFLE					
RUN					
POOL					

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

Approximate percentage of channel features for entire segment site 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	100%				
POOL					

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

% Cobble	% Gravel	% Sand	100%	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Duckweed covering entire surface of waterbody.

Water Characteristics*: (Mark all that apply.)

Odor:	<input checked="" type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input checked="" 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 checked="" type="checkbox"/> Other: Vegetation

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:  Date of Survey: 8/14/07

Organization: Pickett, Ray & Silver, Inc. Position: Staff Scientist/Field Team Leader

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1698</u> Site #: <u>1698-2</u> Weather Conditions: <u>75°, Clear, Humid</u> GPS Location: _____ UTM X: <u>693350.077m</u> UTM Y: <u>4272034.586 m</u> Horizontal Accuracy Estimate (GPS Data Quality): +/- <u>N/A</u> (feet) PDOP: <u>3.6</u> Average Stream Width: <u>8</u> (meters) Length of Survey Segment: <u>160</u> (meters) Field Staff: <u>MC & LS</u>	<h4 style="text-align: center; margin: 0;">Dissolved Oxygen</h4> Dissolved Oxygen: <u>2.01</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>24.0</u> (°C)
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Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)																				
1	0	.1	0	.1		>1		>1		>1		>1		>1		>1		>1		>1		>1
2	.85	.3	.85	.2		>1		>1		>1		>1		>1		>1		>1		>1		>1
3	1.7	.4	1.7	.22		>1		>1		>1		>1		>1		>1		>1		>1		>1
4	2.55	.8	2.55	.35		>1		>1		>1		>1		>1		>1		>1		>1		>1
5	3.4	.8	3.4	.5		>1		>1		>1		>1		>1		>1		>1		>1		>1
6	4.25	.5	4.25	.6		>1		>1		>1		>1		>1		>1		>1		>1		>1
7	5.1	.8	5.1	.68		>1		>1		>1		>1		>1		>1		>1		>1		>1
8	5.95	.72	5.95	.75		>1		>1		>1		>1		>1		>1		>1		>1		>1
9	6.8	.55	6.8	.5		>1		>1		>1		>1		>1		>1		>1		>1		>1
10	7.65	.34	7.65	.4		>1		>1		>1		>1		>1		>1		>1		>1		>1
11	8.5	.2	8.5	.1																		
Width/Median Depth	8.5	.5	8.5	.4	8		7		7		8		8		8		8		9		8	
Feature Type (riffle, run, or pool)	Run																					

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.
 GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Matthew Cosby Date: 8/14/07

Site Maximum > 1.00

Site Median 1.00

WBID# 1698
 Site# 1698-3

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

Date & Time: 8/14/07 10:00 a.m.	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): MC & LS	Upstream of bridge crossing, adjacent to levee
Current Weather Conditions: 80°F, humid and sunny	Facility Name: FCP WSD #3 St. Alban's WWTP
Weather Conditions for Past 10 days: Rain and Sun	Permit Number: MO0113395
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: 693604.715 m		Y: 4272497.445 m	
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 Correction with <input checked="" type="checkbox"/> X
Real Time Differential Processing		Post 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	4.4		

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
See Attached Photos					

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

Comments: St. Albans Park/Lake with walking trails are downstream of survey site 1698-3

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: Road along levee

* Page Two – Data Sheet B for WBID # 1698 :
 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	100%				
POOL					

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

% Cobble	% Gravel	% Sand	90	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Canary reed grass, jewel weed, smart weed along banks, algae, duck weed on water surface

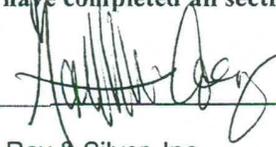
Water Characteristics*: (Mark all that apply.)

Odor:	<input checked="" 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 checked="" type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input checked="" 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 checked="" type="checkbox"/> Other: Vegetation

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:  Date of Survey: 8/14/07

Organization: Pickett, Ray & Silver, Inc. Position: Staff Scientist/Field Team Leader

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>1698</u> Site #: <u>1698-3</u> Weather Conditions: <u>80°F, Humid, Sunny</u> GPS Location: UTM X: <u>693604.715 m</u> UTM Y: <u>4272497.445 m</u> Horizontal Accuracy Estimate (GPS Data Quality): +/- <u>N/A</u> (feet) PDOP: <u>4.4</u> Average Stream Width: <u>5</u> (meters) Length of Survey Segment: <u>150</u> (meters) Field Staff: <u>MC & LS</u>	Dissolved Oxygen Dissolved Oxygen: <u>4.66</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>25.7</u> (°C)
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Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)																				
1	1	.1	.5	.1	.5	.1	0	.1	0	.13	0	.14	.3	.1	.4	.1	.4	.1	0	.2	.3	.1
2	1.2	.11	.8	.12	.7	.13	.3	.18	.4	.22	.4	.23	1.1	.13	1.3	.13	.8	.11	.5	.25	.9	.13
3	1.4	.21	1.1	.15	.9	.2	.6	.28	.8	.26	.8	.3	2.0	.24	2.2	.19	1.2	.16	1.0	.3	1.5	.14
4	1.6	.24	1.4	.2	1	.22	.9	.33	.12	.3	.12	.4	3.0	.25	3.1	.23	1.6	.24	1.5	.3	2.1	.15
5	1.8	.22	1.7	.23	1.2	.22	1.2	.25	.16	.3	.16	.38	3.5	.31	4.0	.22	2.0	.25	2.0	.25	2.7	.16
6	2.0	.23	2	.24	1.4	.23	1.5	.2	2.0	.25	2.0	.25	4.0	.37	4.9	.26	2.4	.26	2.5	.24	3.3	.22
7	2.1	.2	2.3	.17	1.6	.22	1.8	.15	2.4	.2	2.4	.24	5.0	.34	5.8	.25	2.8	.3	3.0	.2	3.9	.21
8	2.2	.2	2.6	.14	1.8	.15	2.1	.15	2.8	.16	2.8	.25	6.0	.3	6.7	.21	3.2	.24	3.5	.18	4.5	.3
9	2.3	.15	2.7	.1	2.0	.14	2.4	.1	3.2	.15	3.2	.18	6.7	.25	7.6	.15	3.6	.23	4.0	.12	5.1	.25
10	2.4	.1	2.8	.1	2.2	.12	2.7	.1	3.6	.11	3.6	.15	7.5	.15	8.5	.12	4.0	.15	4.5	.11	5.7	.25
11	2.5	.1	3	.1	2.5	.1	3.0	.1	4.0	.1	3.9	.1	8.8	.1	9.4	.1	4.4	.1	5.0	.1	5.9	.11
Width/Median Depth	3.5	.2	3.5	.14	3.0	.15	3.0	.15	4.0	.2	4	.24	9.0	.25	9.5	.19	5.0	.23	5.5	.2	6.2	.16
Feature Type (riffle, run, or pool)	Run																					

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.
 GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: Matthew Cosby Date: 8/14/07

Site Maximum .40

Site Median .20

WBID# 1698 Fiddle Creek



Site# 1 Photo ID# 2, Downstream



Site# 1 Photo ID# 1, Upstream



Site# 2 Photo ID# 4, Downstream



Site# 2 Photo ID# 3, Upstream

WBID# 1698 Fiddle Creek



Site# 3 Photo ID# 6, Downstream



Site# 3 Photo ID# 5, Upstream



Site# 3 Photo ID# 8, Bridge downstream of site 3



Site# ? Photo ID# 7, Levee adjacent to stream

WBID# 1698 Fiddle Creek



Site# ? Photo ID# 9, Walking trail next to stream