



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0187 Coon Creek

Submitted by
Pickett Ray and Silver

To
Missouri Department of Natural Resources
Water Protection Program

Date Received: June 5, 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): Coon Creek	
Missouri Waterbody Identification (WBID) Number: 0187	
8-digit HUC: 7110008	County: Montgomery
Upstream Legal Description (from Table H): 10,50N,6W	
Downstream Legal Description(from Table H): Mouth	
Number of sites evaluated 2 - Stream segment was less than 3 miles	
List all sites numbers, listed consequently upstream to downstream:	
1 - Freemont Rd., 2 - Post Oak School Rd.	

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

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):	Middle Town City Lagoon
Discharger Permit Number(s):	MO 0055387

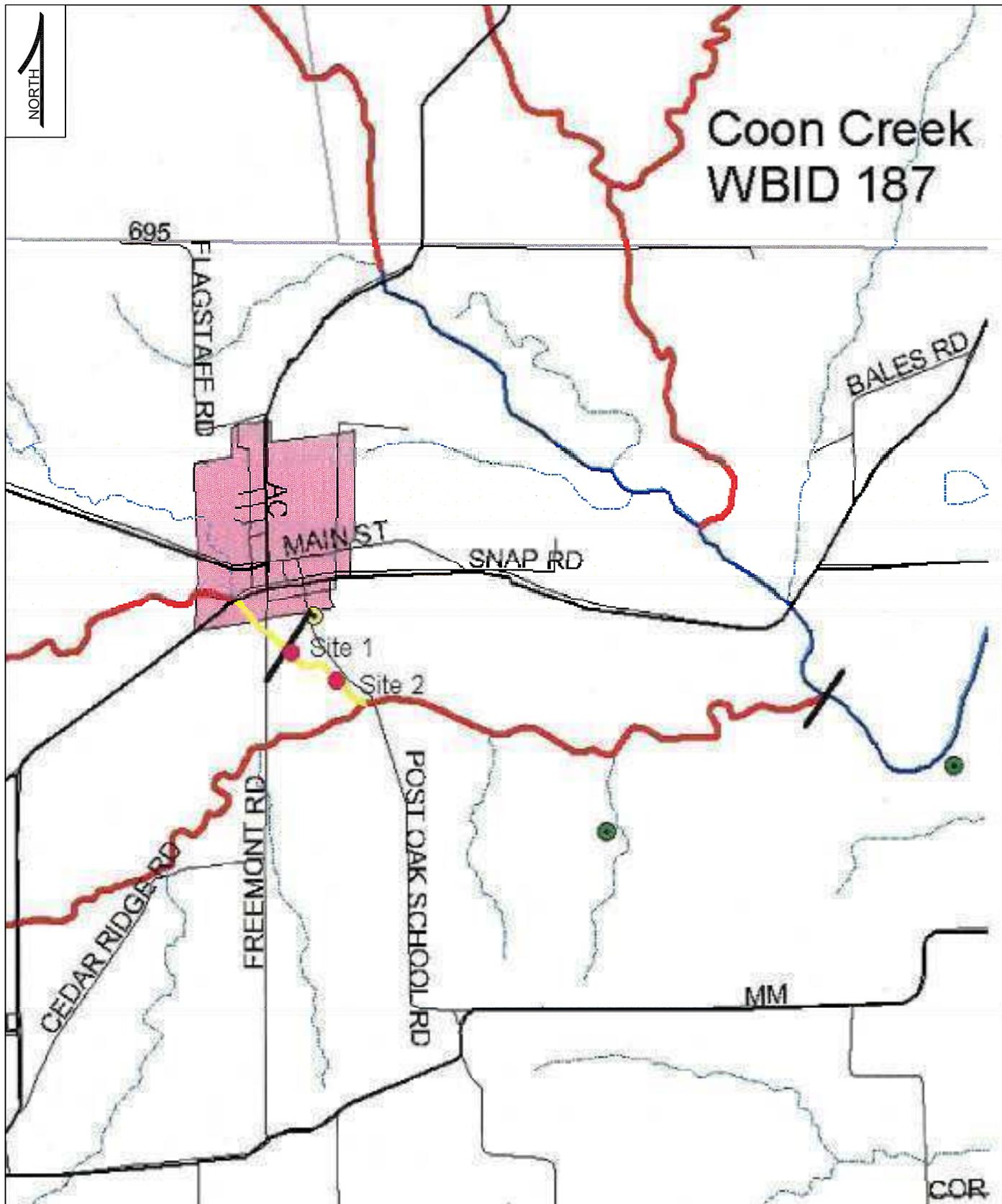
IV. UAA Surveyor (please print legibly)

Name of Surveyor R. Martin	Telephone Number: 573-875-7844
Organization/Employer: AE Solutions	
Position: Env. Specialist	

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

Signed: Renee MartinDate: 5/8/07

\\3serverpr\Projects\07031\dwg\Task 6 Coon Creek 187.dwg, 5/25/2007 12:44:22 PM, 1:2000, MATT COSBY



PICKETT RAY & SILVER

Civil Engineers Land Surveyors Natural Resources

Address:
333 Mid Rivers Mall Drive
St. Peters, Missouri 63376

Phone: (636) 397-1211
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WBID #: 0187
Name: Coon Creek
GIS MAP



NOT TO SCALE

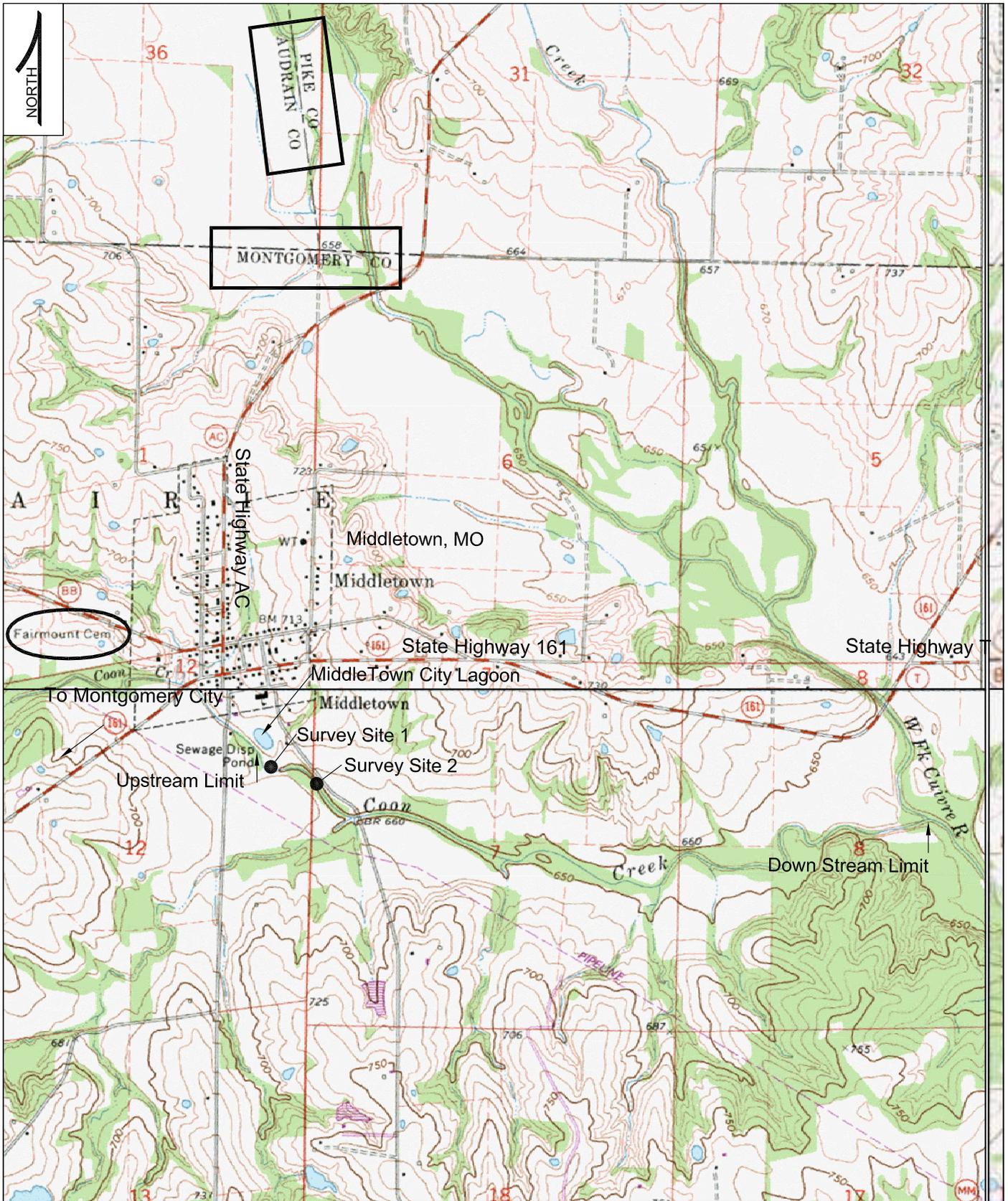
PRS Job Number: 07031.MODN.00E

Drawn By: M.C.

Date: 05-25-07

Checked By: J.V.

Date: 05-25-07



PICKETT RAY & SILVER
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 St. Peters, Missouri 63376
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WBID #: 0187
 Name: Coon Creek
 County: Montgomery/
 Pike/Audrain
 USGS Location Map



GRAPHIC SCALE
 1 inch = 2000ft.

PRS Job Number: 07031.MODN.00E
 Drawn By: M.C. Date: 05-25-07
 Checked By: J.V. Date: 05-25-07

WBID# 0187

Site# 1

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

(must be completed for each site)

Date & Time: 5/8/07 1200	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): R. Martin & J. Hrabik	Coon Cr. Site #1 T #1 - Freemont Rd. Crossing
Current Weather Conditions: Partly Cloudy	Facility Name: Middletown City Lagoon
Weather Conditions for Past 10 days: unknown	Permit Number: MO 0055387
Drought Conditions?: No drought <input type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input checked="" type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)	
Site GPS Coordinates: UTM X: 0637257	Y: 4331334
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)	
Global Positioning System (GPS)	Interpolation
Static Mode	x
Dynamic Mode (Kinematic)	Topographic Map or DRG
Precise Positioning Service	Aerial Photograph or DOQQ
Signal Averaging	Satellite Imagery
Real Time Differential Processing	Interpolation Other Real Time Differential Correction with
Post Processing	
HORIZONTAL ACCURACY ESTIMATE	
GPS Data Quality	Interpolation Data Quality
FOM	± _____ Meters
EPE	± 22 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
See Attached Photos		0187-1-40 0187-1-41 0187-1-42	Upstream Site #1, Transect #1 Downstream Site #1, Transect #1 Outfall Site #1, Transect #1		

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 checked="" type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Fence	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other:
Comments: WWTF lagoons discharge pipe. Ag fields				

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments: None					

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	15	10	15	0.1	0.2
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%.)

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

Some Aquatic moss and algae on rocky 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 type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

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

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

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

Surveyor's Signature: Renee Martin

Date of Survey: 5/8/07

Organization: AE Solutions

Position: Env. Specialist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>0187</u> Site #: <u>0187-1</u> Estimated Channel Incision: _____ (m) (height between low bank width and water) GPS Location: _____ UTM X: <u>0637257</u> UTM Y: <u>4331334</u> Horizontal Accuracy Estimate (GPS Data Quality): <u>+/- 22</u> (feet) PDOP: _____ Average Stream Width: <u>10</u> (meters) Length of Survey Segment: <u>200</u> (meters) (20x average stream width) Field Staff: <u>Renee Martin & Jenny Hrabik</u>	<b style="text-align: center;">Dissolved Oxygen Dissolved Oxygen: <u>7.13</u> (mg/L) Dissolved Oxygen: <u>81.9</u> (% sat) Specific Cond: <u>247.2</u> (µS/cm) Water Temperature: <u>22.0</u> (°C)
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Transect Cross-Section

Measurement		01		02		03		04		05		06		07		08		09		10		11	
		Distance (m)	Depth (m)																				
1		0.5	0.1	2.0	0.1	0.3	0.1	0.7	0.1	3.0	0.1	0.5	0.1	0.0	0.1	0.3	0.1	0.0	0.35	0.1	0.1	0.0	0.1
2		1.15	0.1	2.8	0.2	1.1	0.2	1.6	0.2	3.5	0.1	1.1	0.1	1.0	0.4	1.3	0.3	0.45	0.45	0.9	0.3	0.8	0.3
3		1.8	0.1	3.6	0.2	1.9	0.2	2.5	0.3	4.0	0.1	1.7	0.1	2.0	0.7	2.3	0.65	0.9	0.4	1.7	0.5	1.6	0.35
4		2.45	<0.1	4.4	0.25	2.7	0.2	3.4	0.3	4.5	0.1	2.3	0.1	3.0	1.0	3.3	0.9	1.35	0.4	2.5	0.5	2.4	0.3
5		3.1	0.1	5.2	0.3	3.5	0.3	4.3	0.35	5.0	0.2	2.9	0.1	4.0	>1.0	4.3	1.0	1.8	0.35	3.3	0.35	3.2	0.3
6		3.75	<0.1	6.0	0.3	4.3	0.3	5.2	0.4	5.5	0.2	3.5	0.2	5.0	>1.0	5.3	>1.0	2.25	0.25	4.1	0.6	4.0	0.2
7		4.4	<0.1	6.8	0.3	5.1	0.4	6.1	0.4	6.0	0.1	4.1	0.2	6.0	>1.0	6.3	>1.0	2.7	0.25	4.9	0.8	4.8	0.2
8		5.05	<0.1	7.6	0.25	5.9	0.5	7.0	0.5	6.5	0.1	4.7	0.4	7.0	0.8	7.3	>1.0	3.15	0.2	5.7	0.7	5.6	0.2
9		5.7	0.1	8.4	0.2	6.7	0.5	7.9	0.45	7.0	<0.1	5.3	0.35	8.0	0.7	8.3	0.8	3.6	0.1	6.5	0.3	6.4	0.1
10		6.35	0.2	9.2	0.2	7.5	0.7	8.8	0.4	7.5	0.1	5.9	0.35	9.0	0.7	9.3	0.5	4.05	0.1	7.3	0.3	7.2	0.1
11		7.0	0.1	10.0	0.2	8.3	0.8	9.7	0.2	8.0	<0.1	6.5	0.1	10.0	0.5	10.3	0.3	4.5	0.1	8.1	0.1	8.0	0.1
12		10.5	0.0	10.2	0.0	8.3	0.8	10.3	0.0	8.8	0.0	6.8	0.0	10.2	0.0	10.3	0.3	6.0	0.0	8.3	0.0	8.2	0.0
Feature Type (riffle, run, or pool)		Riffle		Run		Run		Run		Riffle		Riffle		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.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as < 0.1; and greater than 1m as > 1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Renee Martin Date: 5/8/07

WBID# 0187
 Site# 2

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

Date & Time: 5/8/07 1300	Site Location Description (e.g., road crossing):
Personnel (Data Collectors): R. Martin & J. Hrabik	Coon Creek - Post Oak School Rd. Crossing
Current Weather Conditions: Partly Cloudy	Facility Name: Middletown City Lagoon
Weather Conditions for Past 10 days: unknown	Permit Number: MO 0055387
Drought Conditions?: No drought <input type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input checked="" type="checkbox"/>	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site GPS Coordinates: UTM X: 0637479		Y: 4331269	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	x	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	
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	± 25 _____ Feet or ± _____ Meters		
PDOP			

Photos:

Upstream Photos		Downstream Photos		Other Photos	
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
See Attached Photos		0187-2-43 0187-2-44	Upstream Site 2, Transect 1 Downstream Site 2, Transect 1		

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 checked="" type="checkbox"/> Steep slopes	<input 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 checked="" type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments:					

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	60	10	15	0.65	0.9

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%.)

-	% Cobble	70	% Gravel	30	% Sand	-	% Silt	-	% Mud/Clay	-	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Little algae on 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 type="checkbox"/> Clear	<input checked="" type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

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

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

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

Surveyor's Signature: Renee Martin Date of Survey: 5/8/07
 Organization: AE Solutions Position: Env. Specialist

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: <u>0187</u> Site #: <u>0187-2</u> Estimated Channel Incision: <u>0.2</u> (m) (height between low bank width and water) GPS Location: <u>0637479</u> UTM Y: <u>4331269</u> UTM X: <u>0637479</u> UTM Y: <u>4331269</u> Horizontal Accuracy Estimate (GPS Data Quality): +/- _____ (feet) PDOP: _____ Average Stream Width: <u>9</u> (meters) Length of Survey Segment: <u>180</u> (meters) (20x average stream width) Field Staff: <u>R. Martin & J. Hrabik</u>	<b style="text-align: center;">Dissolved Oxygen Dissolved Oxygen: <u>6.78</u> (mg/L) Dissolved Oxygen: <u>80.7</u> (% sat) Specific Cond: <u>255</u> (µS/cm) Water Temperature: <u>22.6</u> (°C)
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Transect Cross-Section

Measurement		01		02		03		04		05		06		07		08		09		10		11	
		Distance (m)	Depth (m)																				
1		0.0	0.2	0.0	0.1	0.0	0.10	0.0	0.1	2.7	0.1	3.0	0.1	0.8	0.1	1.0	0.1	1.5	0.1	1.5	0.1	0.0	0.1
2		0.45	0.8	1.3	0.2	0.6	1.0	1.0	0.8	3.3	0.1	3.3	0.1	1.6	0.2	1.85	0.2	2.15	0.2	2.3	0.2	0.85	0.3
3		0.9	0.8	2.6	0.1	1.2	>1.0	2.0	0.9	3.9	<0.1	3.6	0.2	2.4	0.2	2.7	0.2	2.8	0.2	3.1	0.25	1.7	0.4
4		1.35	0.8	3.9	0.1	1.8	>1.0	3.0	0.8	4.5	0.1	3.9	0.2	3.2	0.25	3.55	0.2	3.45	0.2	3.9	0.2	2.55	0.4
5		1.8	0.75	5.2	<0.1	2.4	1.0	4.0	0.8	5.1	0.1	4.2	0.15	4.0	0.2	4.4	0.2	4.1	0.2	4.7	0.35	3.4	0.5
6		2.25	0.6	6.5	0.2	3.0	0.8	5.0	0.8	5.7	0.1	4.5	0.2	4.8	0.2	5.25	0.2	4.75	0.2	5.5	0.4	4.25	0.6
7		2.7	0.55	7.8	0.15	3.6	0.75	6.0	0.7	6.3	0.2	4.8	0.25	5.6	0.2	6.1	0.1	5.4	0.25	6.3	0.4	5.1	0.4
8		3.15	0.4	9.1	0.1	4.2	0.6	7.0	0.4	6.9	0.1	5.1	0.3	6.4	0.2	6.95	0.1	6.05	0.2	7.1	0.4	5.95	0.8
9		3.6	0.3	10.4	<0.1	4.8	0.3	8.0	0.3	7.5	<0.1	5.4	0.3	7.2	0.1	7.8	0.1	6.7	0.2	7.9	0.4	6.8	0.9
10		4.05	0.2	11.7	<0.1	5.4	0.2	9.0	0.3	8.1	0.1	5.7	0.3	8.0	0.1	8.65	<0.1	7.35	0.2	8.7	0.4	7.65	0.7
11		4.5	0.1	13.0	0.1	6.0	0.1	10.0	0.2	8.7	0.2	6.0	0.3	8.8	0.1	9.5	0.1	8.0	0.1	9.5	0.2	8.5	0.4
12		5.0	0.0	14.0	0.0	9.0	0.0	10.3	0.0	9.0	0.0	6.0	0.3	10.9	0.0	10.0	0.0	8.0	0.1	9.8	0.0	9.0	0.0
Feature Type (riffle, run, or pool)		Run		Riffle		Riffle		Pool		Riffle		Run		Riffle		Run		Riffle		Run		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.

Transects in order of up to downstream.

Mark dry depth measurements as 0; measurements less than 0.1m as < 0.1; and greater than 1m as > 1

Measurement 1 depth = 0.1m (unless depth is insufficient); Measurement 11 depth = 0.1m (unless depth is insufficient); Measurement 12 distance = entire wetted width distance and depth = 0m.

Signed: Renee Martin Date: 5/8/07

WBID# 0187



Site# 1 Photo ID# 0187-1-40, Upstream site #1



Site# 1 Photo ID# 0187-1-41, Downstream site #1



Site# 1 Photo ID# 0187-1-42, Outfall site #1



Site# 2 Photo ID# 0187-2-43, Upstream Site #2

WBID# 0187



Site# 2 Photo ID# 0187-2-44, Downstream site #2