

Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0218 Peruque Creek

Submitted by

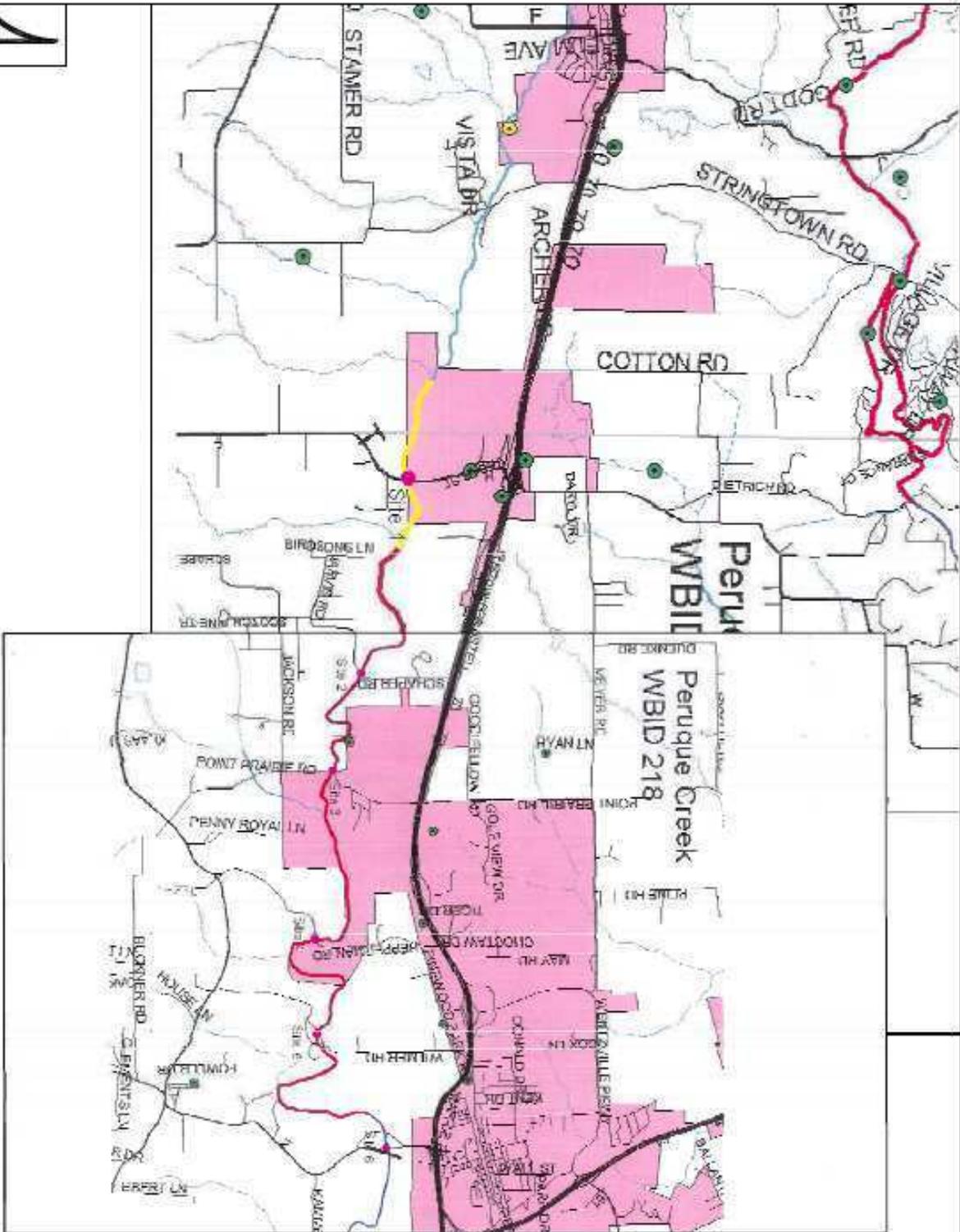
Pickett Ray and Silver

To

Missouri Department of Natural Resources

Water Protection Program

Date Received: June 5, 2007



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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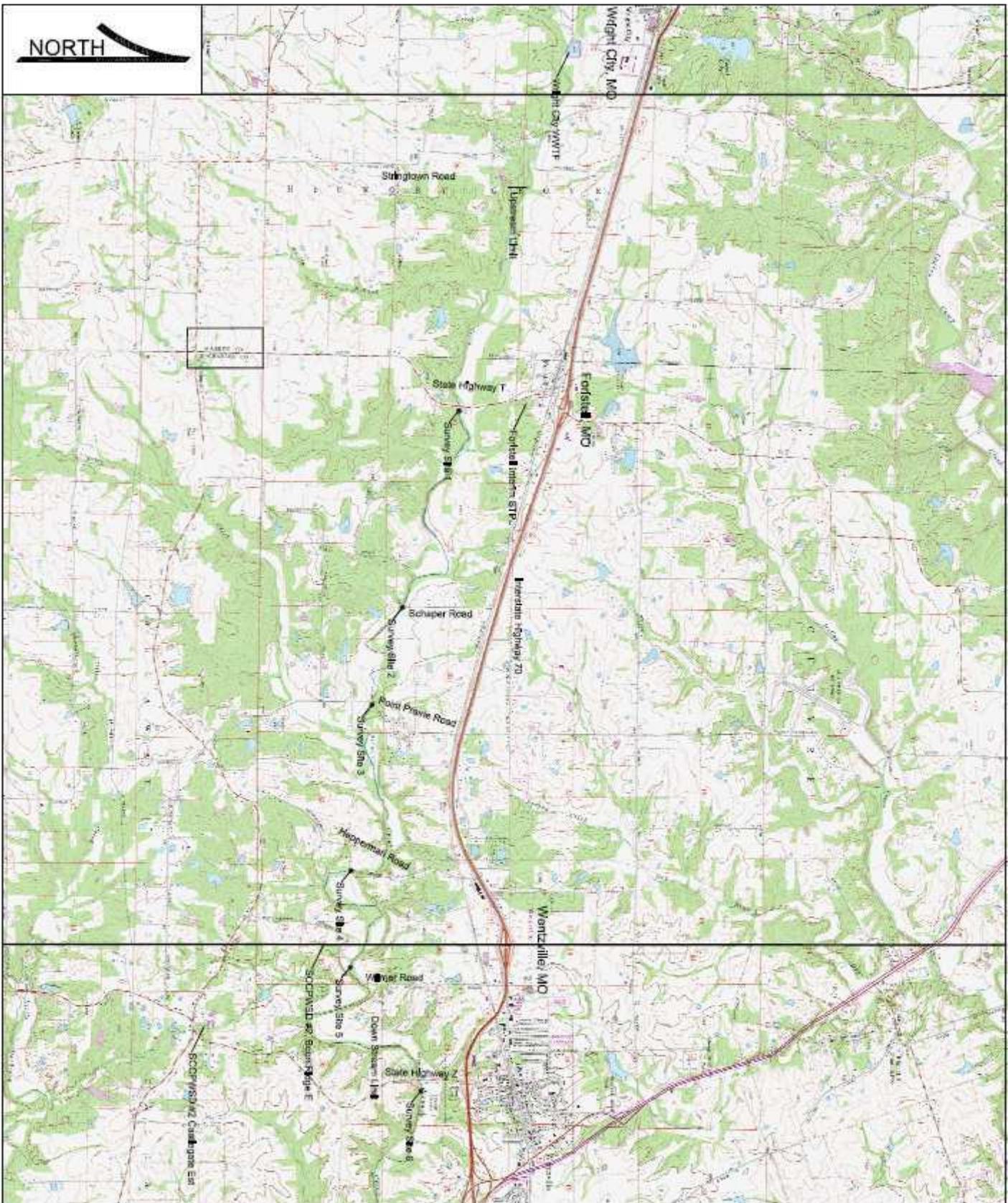
WBID #: 218
Name: Perque Creek
GIS MAP



NOT TO SCALE

PRS Job Number: 07031.MODN.00E
Drawn By: M.C. Date: 05-29-07
Checked By: J.V. Date: 05-29-07

NORTH



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 #: 218
 Name: Perque Creek
 County: Warren/
 St. Charles
 USGS Location Map

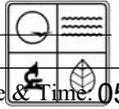


NOT TO SCALE

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

WBID# 0218

Site# 1



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/13/2018	Site Location Description (e.g., road crossing): Hwy. T
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Cloudy	Facility Name: Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0023191
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: 0677606		Y: 4297075	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
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	± 22 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		0218-1-119 0218-1-120	Upstream Site #1, Transect #1 Downstream 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 type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Comments:				

Indications of Human Use*: (attach photos)

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

Stream Morphology:



Missouri Department of Natural Resources

Upstream View 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%.)

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

Algae on substrate, some primrose within stream

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: Renee Martin Date of Survey: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name: Perquimans Creek WBID: 218 Site # 1

DO 10.88 mg/L
Water Temp 23.3 °C

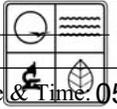
Transect Cross-Section																						
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.20	0.10	0.30	0.10	0.20	0.10	0.10	0.10	6.00	0.10	0.90	0.10	0.10	0.10	2.00	0.10	0.40	0.10	0.00	0	1.80	0.10
2	0.60	0.20	0.90	0.30	1.10	0.10	1.60	0.20	6.40	0.10	1.55	0.15	1.20	0.10	2.60	0.10	1.10	0.20	1.10	0.1	2.25	0.10
3	1.00	0.30	1.50	0.30	2.00	0.50	3.10	0.20	6.80	0.10	2.20	0.20	2.30	0.20	3.20	0.20	1.80	0.20	2.20	0.1	2.70	0.20
4	1.40	0.30	2.10	0.60	2.90	0.60	4.60	0.30	7.20	0.10	2.85	0.40	3.40	0.30	3.80	0.20	2.50	0.20	3.30	0.1	3.15	0.20
5	1.80	0.20	2.70	0.60	3.80	0.80	6.10	0.30	7.60	0.20	3.50	0.50	4.50	0.30	4.40	0.20	3.20	0.20	4.40	0.1	3.60	0.30
6	2.20	0.20	3.30	0.50	4.70	1.00	7.60	0.10	8.00	0.20	4.15	0.50	5.60	0.40	5.00	0.10	3.90	0.30	5.50	0.1	4.05	0.30
7	2.60	0.10	3.90	0.30	5.60	1.00	9.10	0.10	8.40	0.20	4.80	0.50	6.70	0.40	5.60	0.20	4.60	0.30	6.60	0	4.50	0.45
8	3.00	0.10	4.50	0.10	6.50	1.00	10.60	0.10	8.80	0.20	5.45	0.50	7.80	0.40	6.20	0.10	5.30	0.20	7.70	0	4.95	0.50
9	3.40	0.10	5.10	0.10	7.40	0.70	12.10	0.20	9.20	0.20	6.10	0.40	8.90	0.35	6.80	0.20	6.00	0.20	8.80	0	5.40	0.50
10	3.80	0.10	5.70	0.10	8.30	0.50	13.60	0.20	9.60	0.10	6.75	0.40	10.00	0.30	7.40	0.20	6.70	0.30	9.90	0	5.85	0.30
11	4.20	0.10	6.30	0.10	9.20	0.20	15.10	0.10	10.00	0.10	7.40	0.10	11.10	0.10	8.00	0.10	7.40	0.10	11.00	0.1	6.30	0.10

Site Maximum **1.00**

Site Median **0.20**

WBID# 0218

Site# 2



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/11/2018	Site Location Description (e.g., road crossing): Schaper Road
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Cloudy	Facility Name: Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0023191
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: 0680208		Y: 4296428	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
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	± 21 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		0218-2-117 0218-2-118	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 type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments: None					

Stream Morphology:



Missouri Department of Natural Resources

Upstream View 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%.)

-	% Cobble	30	% Gravel	50	% Sand	-	% Silt	-	% Mud/Clay	20	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Algae on substrate/bedrock

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: Renee Martin Date of Survey: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name:

Percy Creek

WBID:

218

Site #

2

DO 9.93 mg/L

Water Temp 23.2 °C

Transect Cross-Section

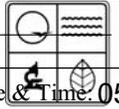
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.80	0.10	0.40	0.10	0.10	0.10	0.00	0.10	0.00	0.10	0.60	0.10	3.30	0.10	0.60	0.10	1.00	0.10	0.20	0.10	0.20	0.10
2	1.80	0.40	1.50	0.30	1.10	0.10	1.40	0.30	1.30	0.20	1.60	0.10	4.10	0.10	2.00	0.10	2.50	0.10	1.90	0.20	1.80	0.50
3	2.80	0.40	2.60	0.30	2.10	0.10	2.80	0.30	2.60	0.10	2.60	0.10	4.90	0.10	3.40	0.10	4.00	0.10	3.60	0.20	3.40	0.20
4	3.80	0.40	3.70	0.20	3.10	0.10	4.20	0.20	3.90	0.20	3.60	0.10	5.70	0.20	4.80	0.10	5.50	0.10	5.30	0.20	5.00	0.10
5	4.80	0.40	4.80	0.30	4.10	0.10	5.60	0.10	5.20	0.20	4.60	0.20	6.50	0.10	6.20	0.10	7.00	0.20	7.00	0.40	6.60	0.20
6	5.80	0.30	5.90	0.30	5.10	0.10	7.00	0.10	6.50	0.20	5.60	0.20	7.30	0.10	7.60	0.10	8.50	0.20	8.70	0.60	8.20	0.30
7	6.80	0.30	7.00	0.10	6.10	0.10	8.40	0.20	7.80	0.10	6.60	0.20	8.10	0.20	9.00	0.10	10.00	0.20	10.40	0.50	9.80	0.30
8	7.80	0.20	8.10	0.10	7.10	0.10	9.80	0.20	9.10	0.10	7.60	0.20	8.90	0.20	10.40	0.10	11.50	0.30	12.10	0.40	11.40	0.20
9	8.80	0.20	9.20	0.10	8.10	0.10	11.20	0.20	10.40	0.10	8.60	0.20	9.70	0.20	11.80	0.10	13.00	0.30	13.80	0.40	13.00	0.20
10	9.90	0.20	10.30	0.10	9.10	0.10	12.60	0.20	11.70	0.10	9.60	0.10	10.50	0.20	13.20	0.10	14.50	0.30	15.50	0.30	14.60	0.20
11	10.80	0.10	11.40	0.10	10.10	0.10	14.00	0.10	13.00	0.10	10.60	0.10	11.30	0.10	14.60	0.10	15.00	0.10	17.20	0.10	16.20	0.10

Site Maximum 0.60

Site Median 0.10

WBID# 0218

Site# 3



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/11/18	Site Location Description (e.g., road crossing): Pointe Prairie Rd.
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Party Cloudy	Facility Name: Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0023191
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: 0681519		Y: 4296041	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
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	± 23 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		0218-3-110 0218-3-112	Upstream Site #3, Transect #1 Downstream Site #3, 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 type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Comments:				

Indications of Human Use*: (attach photos)

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

Stream Morphology



Missouri Department of Natural Resources

Upstream View 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%.)

% Cobble	10	% Gravel	40	% Sand	50	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site)

Algae and primrose on substrate and within stream

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: Renee Martin Date of Survey: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name:

Peyoune Creek

WBID: 218

Site # 3

DO 7.92 mg/L

Water Temp 23.7 °C

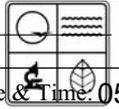
Transect Cross-Section																						
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.90	0.10	1.30	0.10	0.50	0.10	0.10	0.10	8.30	0.10	1.10	0.10	4.40	0.10	0.10	0.10	0.30	0.10	0.20	0.10	0.00	0.10
2	2.10	0.40	2.30	0.20	1.70	0.30	1.10	0.20	8.50	0.10	2.20	0.10	5.30	0.20	1.60	0.40	1.50	0.40	1.50	0.40	1.20	0.50
3	3.30	0.40	3.30	0.30	2.90	0.30	2.10	0.20	8.70	0.15	3.30	0.10	6.20	0.30	2.10	0.50	2.70	0.50	2.80	0.50	2.40	0.60
4	4.50	0.40	4.30	0.35	4.10	0.40	3.10	0.20	8.90	0.10	4.40	0.00	7.10	0.30	3.60	0.60	3.90	0.70	4.10	0.50	3.60	0.60
5	5.70	0.50	5.30	0.40	5.30	0.30	4.10	0.20	9.10	0.20	5.50	0.00	8.00	0.40	5.10	0.40	5.10	0.70	5.40	0.60	4.80	0.50
6	6.90	0.50	6.30	0.30	6.50	0.20	5.10	0.20	9.30	0.20	6.60	0.00	8.90	0.40	6.60	0.50	6.30	0.50	6.70	0.40	6.00	0.50
7	8.00	0.50	7.30	0.30	7.70	0.10	6.10	0.15	9.50	0.15	7.70	0.00	9.80	0.40	8.10	0.30	7.50	0.30	8.00	0.40	7.20	0.40
8	9.20	0.40	8.30	0.30	8.90	0.20	7.10	0.15	9.70	0.10	8.80	0.10	10.70	0.30	9.60	0.20	8.70	0.20	9.30	0.30	8.40	0.30
9	10.40	0.30	9.30	0.30	10.10	0.20	8.10	0.20	9.90	0.20	9.90	0.10	11.60	0.20	11.10	0.10	9.90	0.10	10.60	0.20	9.60	0.30
10	11.60	0.20	10.30	0.20	11.30	0.10	9.10	0.20	10.10	0.10	11.00	0.10	12.50	0.20	12.60	0.10	11.10	0.10	11.90	0.10	10.80	0.20
11	12.80	0.10	11.30	0.30	12.50	0.10	10.10	0.10	10.30	0.10	12.00	0.10	13.40	0.20	14.10	0.10	12.30	0.10	13.20	0.10	12.00	0.10

Site Maximum 0.70

Site Median 0.20

WBID# 0218

Site# 4



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/11/2015	Site Location Description (e.g., road crossing): Hepperman Rd.
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Clear	Facility Name: Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0023191
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: 0683591		Y: 4295846	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
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	± 14 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		0218-4-107 0218-4-108 0218-4-109	Upstream Site #4, Transect #1 Downstream Site #4, Transect #1 Tire Tracks, Site #4, Transect #3 Downstream		

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

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

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

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

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input checked="" 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:					

Stream Morphology:



Missouri Department of Natural Resources

Upstream View 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%.)

-	% Cobble	20	% Gravel	80	% 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 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.

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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: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name:

Perquimans Creek

WBID: 218

Site # 4

DO 6.38 mg/L

Water Temp 22 °C

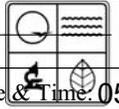
Transect Cross-Section																						
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.70	0.10	2.20	0.10	0.60	0.10	2.70	0.10	0.30	0.10	0.40	0.10	1.00	0.10	0.70	0.10	0.40	0.10	0.40	0.10	0.30	0.10
2	1.70	0.20	2.90	0.10	1.80	0.20	3.50	0.20	0.60	0.20	0.75	0.20	1.10	0.10	1.50	0.20	0.75	0.20	0.70	0.20	0.60	0.10
3	2.70	0.10	3.60	0.10	3.00	0.20	4.30	0.10	0.90	0.20	1.10	0.30	1.20	0.10	2.30	0.30	1.10	0.20	1.00	0.25	0.90	0.20
4	3.70	0.20	4.30	0.10	4.20	0.20	5.10	0.15	1.20	0.30	1.45	0.30	1.30	0.10	3.10	0.20	1.45	0.20	1.30	0.30	1.20	0.20
5	4.70	0.10	5.00	0.10	5.40	0.30	5.90	0.15	1.50	0.30	1.80	0.20	1.40	0.10	3.90	0.10	1.80	0.20	1.60	0.30	1.50	0.20
6	5.70	0.10	5.70	0.10	6.60	0.30	6.70	0.20	1.80	0.30	2.15	0.20	1.50	0.10	4.70	0.10	2.15	0.20	1.90	0.20	1.80	0.20
7	6.70	0.10	6.40	0.10	7.80	0.30	7.50	0.10	2.10	0.25	2.50	0.20	1.60	0.10	5.50	0.00	2.50	0.15	2.20	0.20	2.10	0.20
8	7.70	0.10	7.10	0.10	9.00	0.20	8.30	0.10	2.40	0.20	2.85	0.20	1.70	0.10	6.30	0.00	2.85	0.15	2.50	0.20	2.40	0.20
9	8.70	0.20	7.80	0.10	10.20	0.20	9.10	0.10	2.70	0.20	3.20	0.20	1.80	0.10	7.10	0.10	3.20	0.10	2.80	0.20	2.70	0.10
10	9.70	0.20	8.50	0.20	11.40	0.10	9.90	0.10	3.00	0.10	3.55	0.20	1.90	0.10	7.90	0.10	3.55	0.10	3.10	0.15	3.00	0.10
11	10.70	0.10	9.40	0.10	12.60	0.10	10.70	0.10	3.30	0.10	3.90	0.10	2.00	0.10	8.70	0.10	3.90	0.10	3.40	0.10	3.30	0.10

Site Maximum 0.30

Site Median 0.10

WBID# 0218

Site# 1



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/11/2018	Site Location Description (e.g., road crossing): Wilmer Rd.
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Clear	Facility Name: Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0023191
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: 0684802		Y: 4295886	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± 18 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
See Attached Photos		0218-5-103 0218-5-104 0218-5-105	Upstream Site #5, Transect #1 Downstream Site #5, Transect #1 Tire Tracks, Site #4, Transect #7 Upstream	0218-5-106	Tire Tracks, Site #5, Transect #7, Upstream

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

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				

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

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

Indications of Human Use*: (attach photos)

<input type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input checked="" 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:					

Stream Morphology



Missouri Department of Natural Resources

Upstream View 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%.)

-	% Cobble	20	% Gravel	80	% Sand	-	% Silt	-	% Mud/Clay	-	% Bedrock
---	----------	----	----------	----	--------	---	--------	---	------------	---	-----------

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

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 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: Renee Martin Date of Survey: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name:

Perquimans Creek

WBID:

218

Site #

5

DO 5.69 mg/L

Water Temp

21.6 °C

Transect Cross-Section

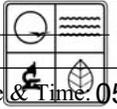
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.00	0.10	0.60	0.10	0.20	0.10	2.00	0.10	0.40	0.10	1.10	0.10	0.70	0.10	0.30	0.10	0.40	0.10	0.50	0.10	0.00	0.10
2	1.30	0.50	1.50	0.30	1.20	0.45	3.80	0.40	1.20	0.25	1.90	0.10	1.40	0.20	1.90	0.20	2.00	0.30	2.00	0.20	1.20	0.60
3	2.60	0.40	2.40	0.40	2.20	0.60	5.60	0.80	2.00	0.40	2.70	0.40	2.10	0.30	3.50	0.20	3.60	0.50	3.50	0.30	3.40	0.60
4	3.90	0.50	3.30	0.40	3.20	0.70	7.40	1.00	2.80	0.60	3.50	0.40	2.80	0.40	5.10	0.10	5.20	0.70	5.00	0.40	5.10	0.40
5	5.20	0.40	4.20	0.30	4.20	0.80	9.20	1.00	3.60	0.60	4.30	0.50	3.50	0.50	6.70	0.20	6.80	0.70	6.50	0.30	7.80	0.30
6	6.50	0.40	5.10	0.50	5.20	0.90	11.00	1.00	4.40	0.60	5.10	0.60	4.20	0.50	8.30	0.10	8.40	0.70	8.00	0.50	9.50	0.30
7	7.80	0.50	6.00	0.60	6.20	1.00	12.80	1.00	5.20	0.60	5.90	0.70	4.90	0.70	9.90	0.10	10.00	0.60	9.50	0.50	11.20	0.20
8	9.10	0.40	6.90	0.60	7.20	1.00	14.60	0.90	6.00	0.50	6.70	0.70	5.60	0.50	11.50	0.10	11.60	0.50	11.00	0.40	12.90	0.10
9	10.40	0.30	7.80	0.60	8.20	1.00	16.40	0.80	6.80	0.40	7.50	0.50	6.30	0.40	13.10	0.30	13.20	0.40	12.50	0.40	14.60	0.10
10	11.70	0.20	8.70	0.50	9.20	0.80	18.20	0.40	7.60	0.40	8.30	0.30	7.00	0.30	14.70	0.30	14.80	0.50	14.00	0.20	16.30	0.10
11	13.00	0.10	9.60	0.30	10.20	0.40	20.00	0.20	8.40	0.20	9.10	0.10	7.70	0.10	16.30	0.10	16.40	0.20	15.50	0.10	18.00	0.10

Site Maximum **1.00**

Site Median **0.40**

WBID# 0218

Site# 6



Missouri
Department of
Natural Resources

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/11/2013	Site Location Description (e.g., road crossing): Hwy. Z
Personnel (Data Collectors): R. Martin & J. Hrabik	
Current Weather Conditions: Clear	Facility Name: Forstell Interim STP; SCC PWSD#2 Boone Ridge E; SCC PWSD#2 Castle Gate Wright City WWTF
Weather Conditions for Past 10 days: Unknown	Permit Number: MO 0116114; MO 0126594; MO 0057801; MO 0023191
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: 0686263		Y: 4296837	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode	<input checked="" type="checkbox"/>	Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing		Real Time Differential Correction with	
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	± 18 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		0218-6-99 0218-6-100	Upstream Site #6, Transect #1 Downstream Site #6, Transect #1	0218-6-101	Fishing Sticks, Site #6, 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 type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> None of the above	<input checked="" type="checkbox"/> Other:

Comments: **Hwy. bridge crossing, bridge painting/sandblasting**

Indications of Human Use*: (attach photos)

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Rope swings	<input checked="" 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 checked="" type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Other:	
Comments:					

Stream Morphology



Missouri Department of Natural Resources

Upstream View 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%.)

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

Juneus spp. on shoreline, very little algae on substrate - 6

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: Renee Martin Date of Survey: 5/15/07

Organization: AE Solutions Position: Env. Specialist



Missouri
Department of
Natural Resources

Name: Perquimans Creek WBID: 218 Site # 6

DO 4.47 mg/L
Water Temp 22.2 °C

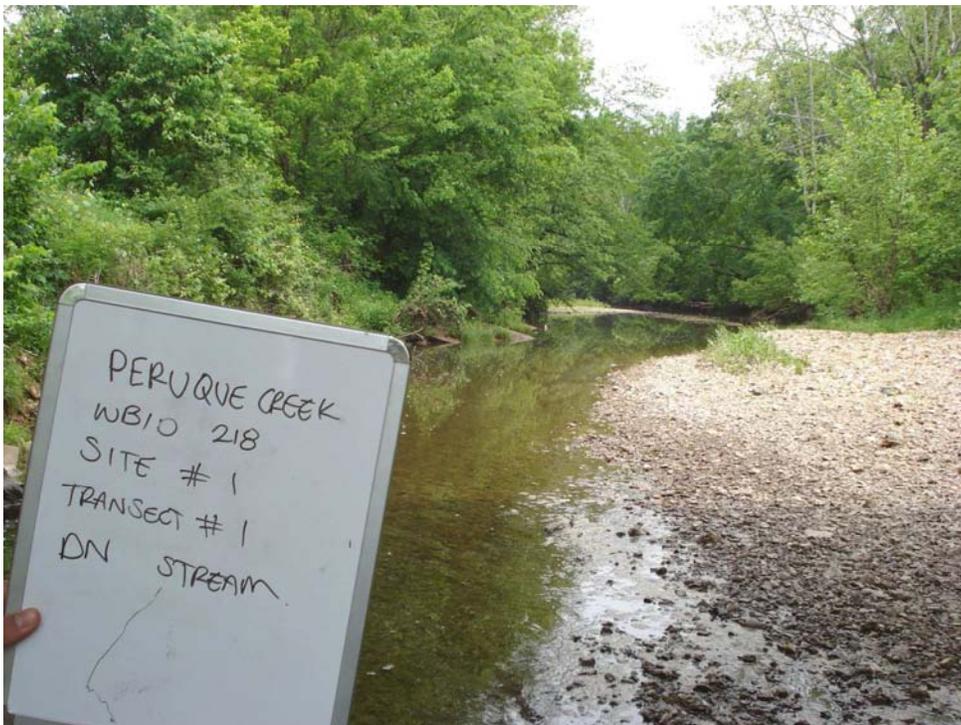
Transect Cross-Section																						
	1		2		3		4		5		6		7		8		9		10		11	
	Distance (m)	Depth (m)																				
1	0.00	0.60	0.00	0.10	1.00	0.20	5.00	0.10	0.40	0.10	0.80	0.10	1.00	0.10	0.60	0.10	0.00	0.10	0.00	0.10	0.20	0.10
2	1.70	0.80	1.70	0.30	2.70	0.30	6.60	0.10	1.30	0.60	1.40	0.10	2.10	0.20	1.70	0.10	0.80	0.10	1.30	0.50	1.70	0.50
3	3.40	1.00	3.40	0.70	4.40	0.40	8.20	0.10	2.20	0.70	2.00	0.20	3.20	0.20	2.80	0.10	1.60	0.40	2.60	0.60	3.20	0.50
4	5.10	1.00	5.10	0.90	6.10	0.50	9.80	0.20	3.10	0.60	2.60	0.30	4.30	0.20	3.90	0.10	2.40	0.50	3.90	0.80	4.70	0.50
5	6.80	1.00	6.80	0.90	7.80	0.60	11.40	0.20	4.00	0.50	3.20	0.30	5.40	0.20	5.00	0.10	3.20	0.50	5.20	0.70	6.20	0.60
6	8.50	1.00	8.50	1.00	9.50	0.70	13.00	0.30	4.90	0.40	3.80	0.30	6.50	0.10	6.10	0.10	4.00	0.50	6.50	0.60	7.70	0.60
7	10.20	1.00	10.20	0.90	11.20	0.70	14.60	0.30	5.80	0.30	4.40	0.20	7.60	0.10	7.20	0.10	4.80	0.50	7.80	0.40	9.20	0.50
8	11.90	1.00	11.90	0.90	12.90	0.70	16.20	0.30	6.70	0.25	5.00	0.20	8.70	0.10	8.30	0.10	5.60	0.40	9.10	0.30	10.70	0.40
9	13.60	1.00	13.60	0.90	14.60	0.80	17.80	0.30	7.60	0.10	5.60	0.20	9.80	0.10	9.40	0.10	6.40	0.40	10.40	0.20	12.20	0.40
10	15.30	0.70	15.30	0.90	16.30	0.70	19.40	0.30	8.50	0.10	6.20	0.20	10.90	0.10	10.50	0.10	7.20	0.30	11.70	0.20	13.70	0.30
11	17.00	0.40	17.00	0.70	18.00	0.10	21.00	0.30	9.30	0.10	6.80	0.10	12.00	0.10	11.60	0.10	8.00	0.10	13.00	0.20	15.20	0.10

Site Maximum **1.00**

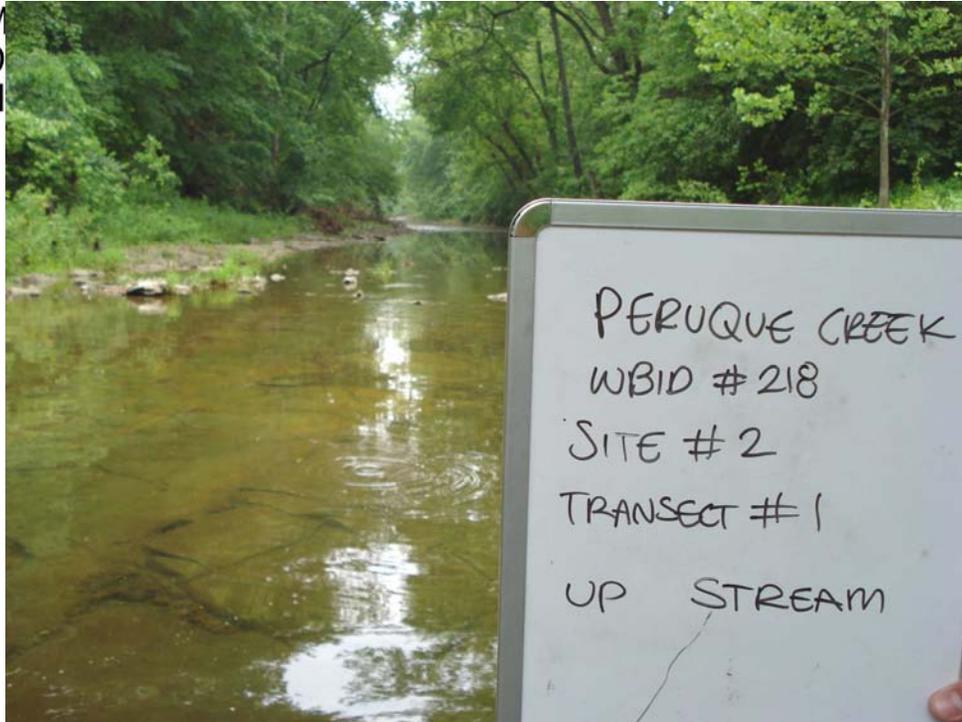
Site Median **0.30**



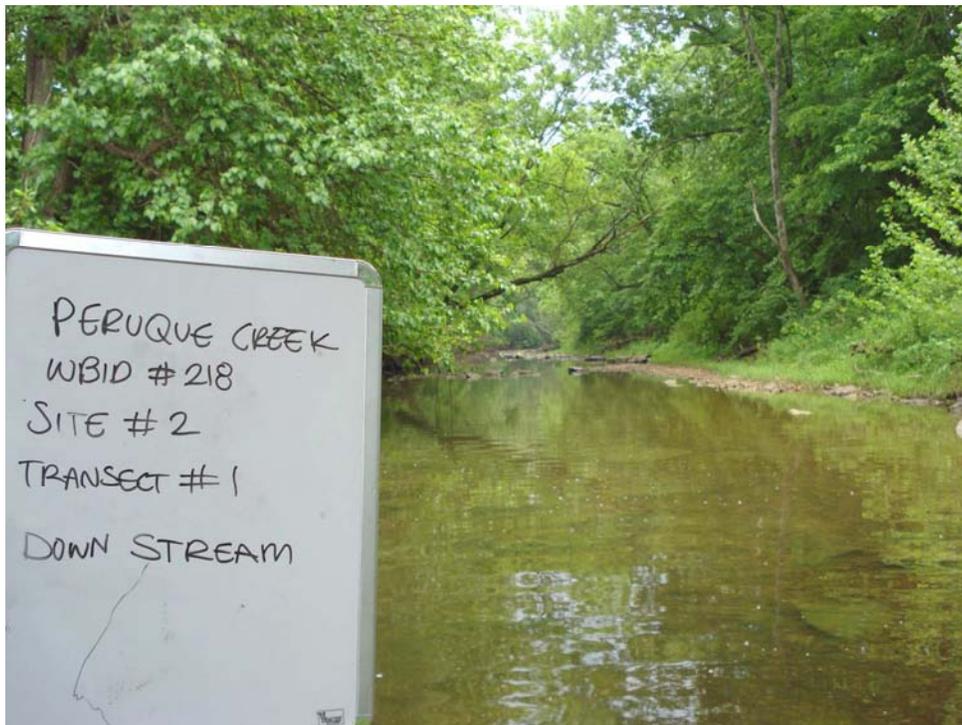
1. Upstream Site, Transect 1



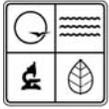
2. Downstream Site 1, Transect 1



3. Upstream Site 2, Transect 1



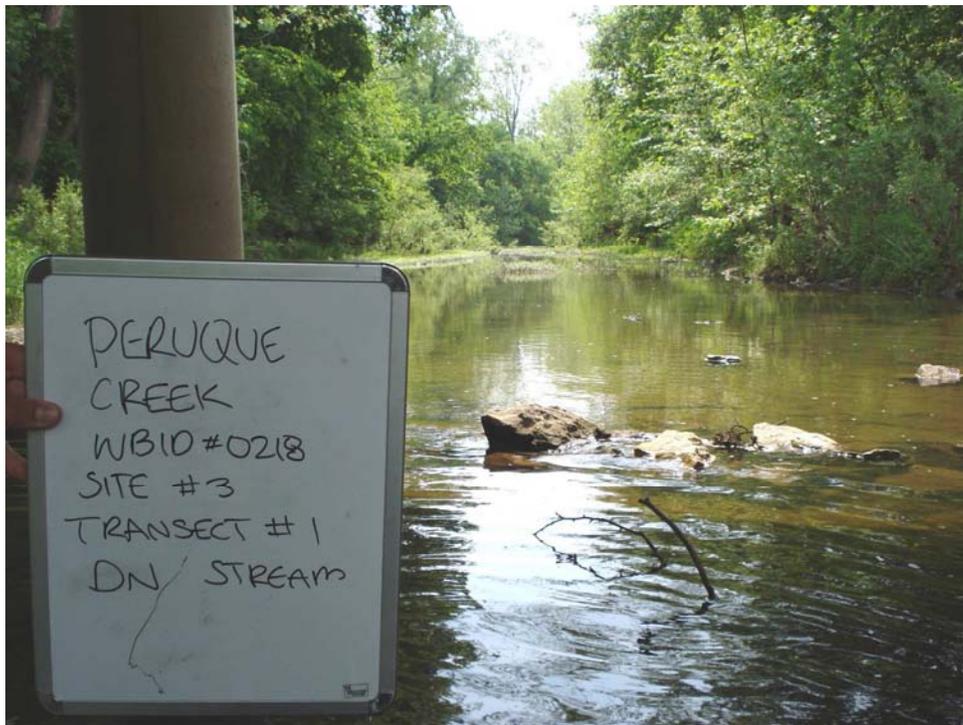
4. Downstream Site 2, Transect 1



N
D
M



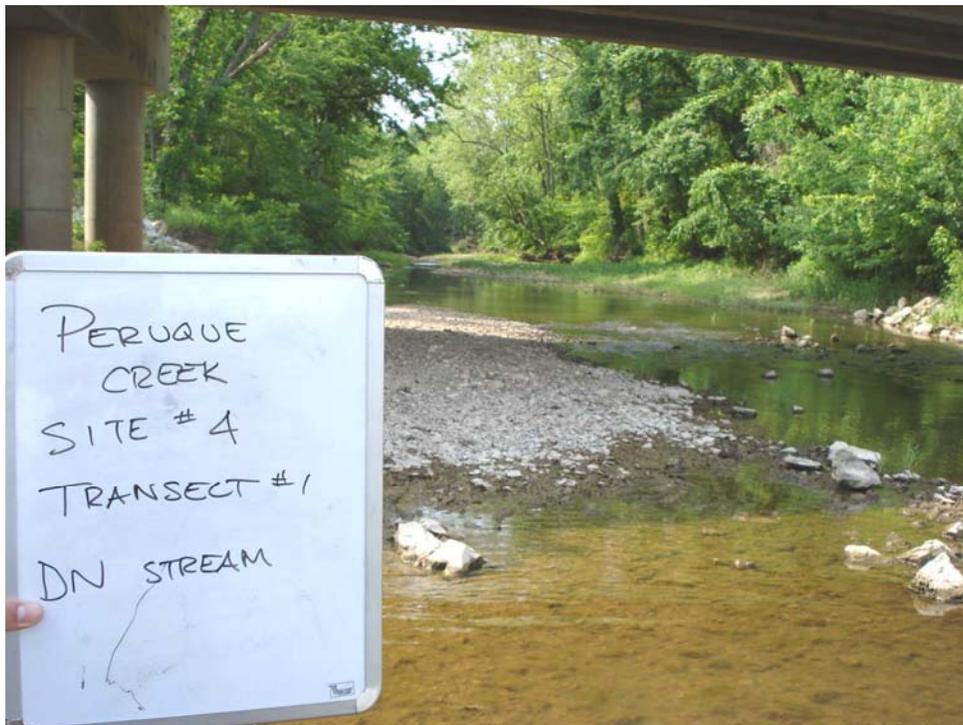
5. Upstream Site 3, Transect 1



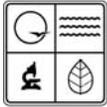
6. Downstream Site 3, Transect 1



7. Upstream Site 4, Transect 1



8. Downstream Site 4, Transect 1



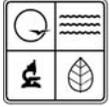
N
D
M



9. Tire Tracks Site 4, Transect 3, Downstream



10. Upstream Site 5, Transect 1



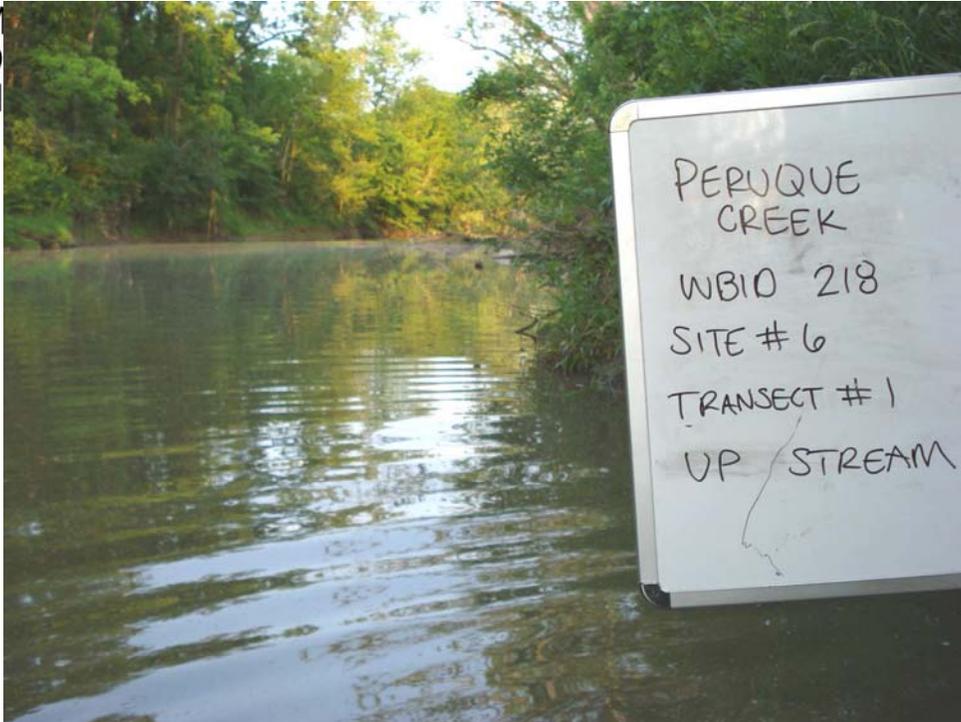
N
D
M



11. Downstream Site 5, Transect 1



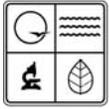
12. Tire Tracks Site 5, Transect 7, Upstream



13. Upstream Site 6, Transect 1



14. Downstream Site 6, Transect 1



N
D
M



15. Fishing Sticks, Site 6, Transect 1