Use Attainability Analysis

for

WBID 0588 Hickory Creek

Submitted by
Missouri Department of Natural Resources Staff

To
Missouri Department of Natural Resources
Water Protection Program

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WATER PROTECTION PROGRAM

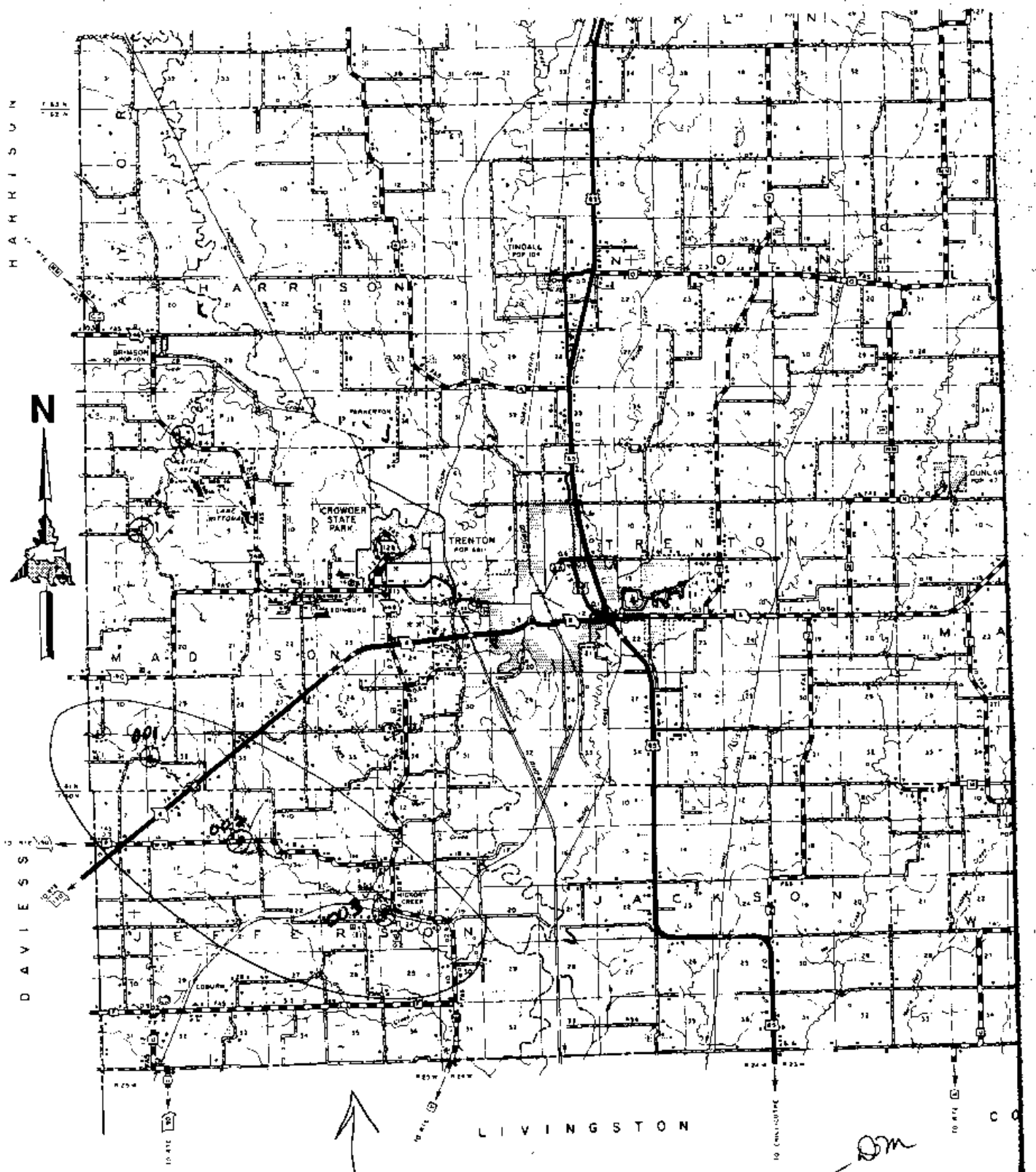
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad):	Hickory Cr.
8-digit HUC:	10280102
Missouri WBID #:	588
County:	Grundy
Upstream Legal Description:	S 32 T 61N R 25W
Downstream Legal Description:	S 24 T 60N R 25W
Upstream Coordinates:	N 40.03943 W 93.74426 (12M)
Downstream Coordinates:	N 39.99914 W 93.66848 (6M)
Discharger Facility Name(s):	—
Discharger Permit Number(s):	—
Number of Sites Evaluated:	(3)
Name of Surveyor and Telephone Number:	Craig C. Chatfield ; Aaron W. Woods 816-622-7095
Organization:	MoDNR
Position:	Soil Scientists

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Cjp Chatfield ; AW **Date:** 7/6/05



~~Racoon Creek~~

Hickory Creek

GRUNDY COUNTY

Location Map

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 588-01	Site Location Description: Hickory Cr.
Site GPS Coordinates: N 40.05943 W 93.74424	
Date & Time: 7/6/05 @ 1120 PM	Facility Name: —
Personnel: Craig C. & Aaron W.	Permit Number: —
Current Weather Conditions: Sunny	Weather Conditions for Past 7 days: Sunny
Photo Ids: Upstream: NBU588-01 101-205 / Downstream: NBD588-01 101-206	Other: NBE588-01 101-207

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

—

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slopes	☒ Other:	

Evidence of Human Use*:

☒ Roads NBE	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☒ RV / ATV Tracks WBE
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Cattle NBE588-01				

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

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 15'	Length (ft): 15'	Avg. Depth (ft): 1'6"	Max. Depth (ft): 2'
☐ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 20'	Length (ft): 20'	Avg. Depth (ft): 10"	Max. Depth (ft): 1'8"
☐ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec):	

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

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	20	50	30		

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

Grasses – Pictures

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☒ Gray	☐ Milky	☒ Other: Scummy
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☒ Scum	☐ Foam	☐ None	☐ Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: C. & P. Chafid & KW **Date:** 7/6/05

Organization: MDNR Position: Soil Scientists

0588_01_US

0588_01_DS

0588_01_E

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 588-02	Site Location Description:
Site GPS Coordinates: N 40.01785 N 93.71722 (LL)	Hickory CR
Date & Time: 7/6/05 @ 1:40 PM	Facility Name: —
Personnel: Craig C ; Aaron W	Permit Number: —
Current Weather Conditions: sunny	Weather Conditions for Past 7 days: sunny
Photo Ids: Upstream: WBU588-02 101-208 Downstream: WBD588-02 101-209 Other:	

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

—

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: NA				

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

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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two – WBID # 588 - 02 gm

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☒ Run	Width (ft):	20'	Length (ft):	50'	Avg. Depth (ft):	5"	Max. Depth (ft):	1'2"
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☐ Flow	Present?	☒ Yes ☐ No			Estimated (ft^3/sec):			

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☒ Run	Width (ft):	15'	Length (ft):	45'	Avg. Depth (ft):	3"	Max. Depth (ft):	8"
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☐ Flow	Present?	☒ Yes ☐ No			Estimated (ft^3/sec):			

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

0 % Cobble	30 % Gravel	30 % Sand	30 % Silt	% Mud/Clay	% Bedrock

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

willows, Cottonwoods — Pictures

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other: Murky
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☒ Foam	☐ None	☐ Other:

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: [signature] **Date:** 7/6/05

Organization: Mo DNR SWCP Position: Soil Scientists

0588_02_US

0588_02_DS

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 588-03	Site Location Description:
Site GPS Coordinates: N 39.99914 W 93.66	848 Hickory CR.
Date & Time: 7/6/05 @ 2 PM	Facility Name: —
Personnel: Craig C. ; Aaron W.	Permit Number: —
Current Weather Conditions: Sunny	Weather Conditions for Past 7 days: Sunny
Photo Ids: Upstream: WBU588-03 101-210 / Downstream: WBD588-03 101-211	Other: WBE588-03 101-212

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

—

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Cattle WBE588-03				

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

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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two – WBID # 580 : -03 RM

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☒ Run	Width (ft):	20'	Length (ft):	50'	Avg. Depth (ft):	5"	Max. Depth (ft):	10"
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☐ Flow	Present?	☒ Yes	☐ No		Estimated (ft^3/sec):			

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☒ Run	Width (ft):	20'	Length (ft):	50'	Avg. Depth (ft):	7"	Max. Depth (ft):	1'6"
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☐ Flow	Present?	☒ Yes	☐ No		Estimated (ft^3/sec):			

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

10 % Cobble	10 % Gravel	60 % Sand	20 % Silt	% Mud/Clay	% Bedrock

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

Algae - Bottom 40% - Picture

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:	
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☒ Other:	Murky
Bottom Deposit:	☒ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:	from / Cattle
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☐ Other:	

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: [signature] AW **Date:** 7/6/05

Organization: MoDNR Position: Soil Scientists

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