Use Attainability Analysis

for

WBID 0807 Haldiman Branch

Submitted by
Missouri Department of Natural Resources Staff

To
Missouri Department of Natural Resources
Water Protection Program

RECEIVED

JUL 14 2005

WATER PROTECTION PROGRAM

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

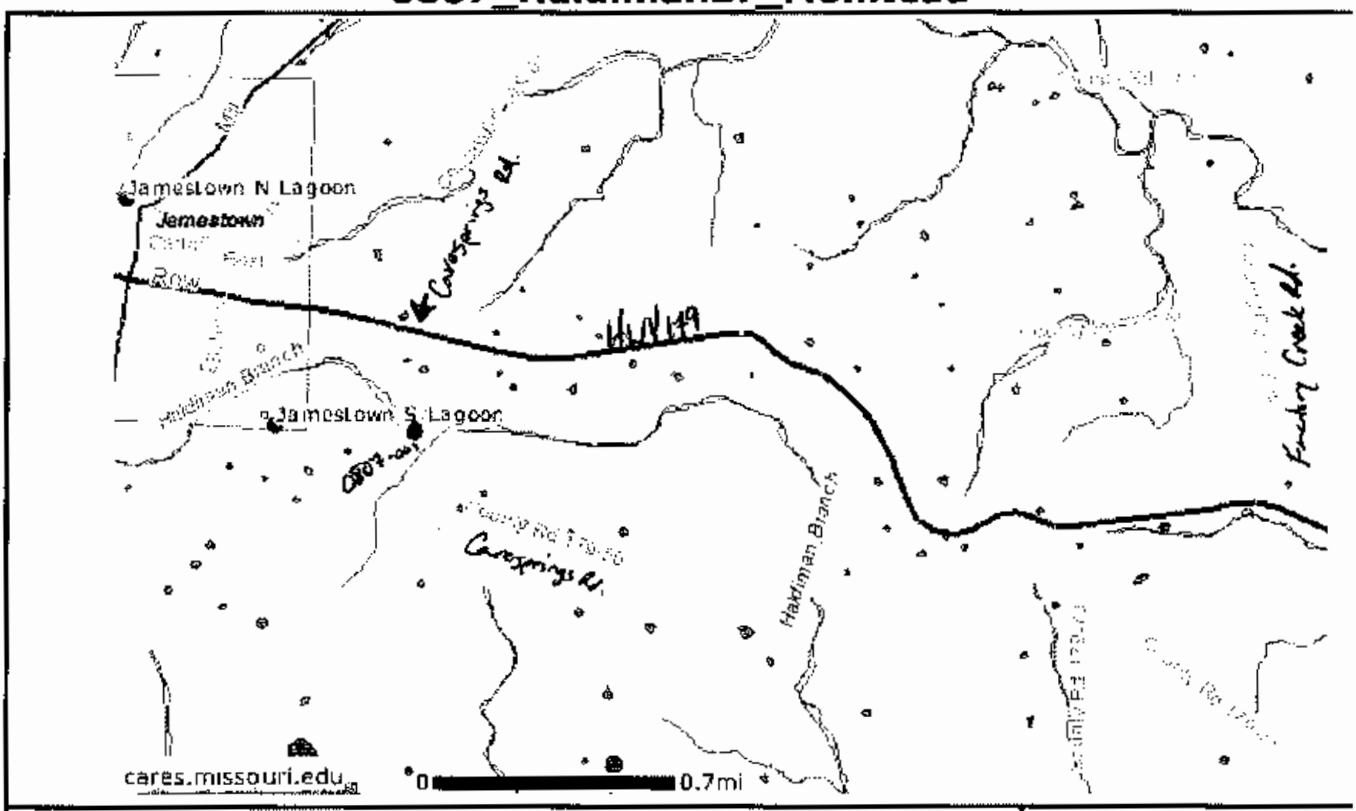
Water Body Name (from USGS 7.5' quad):	Haldiman Br.
8-digit HUC:	10300102
Missouri WBID #:	0807
County:	Moniteau
Upstream Legal Description:	Cave Springs Rd.
Downstream Legal Description:	Chapel Rd.
Upstream Coordinates:	N 38.75955 W092.46544
Downstream Coordinates:	N 38.72882 W092.42850
Discharger Facility Name(s):	Jamestown S Lagoon
Discharger Permit Number(s):	MO 0058203
Number of Sites Evaluated:	3
Name of Surveyor and Telephone Number:	Aaron Bleibaum 816-622-7018
Organization:	MDNR - KCRO
Position:	Env. Specialist

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

Signed: Aaron Bleibaum **Date:** 7/14/05

Day 2
1.2

0807_HaldimanBr_Moniteau



Legend

- Water Quality Information System (WQIS)

Roads and Highways

- Interstate
- U.S. Highway
- State Numbered Highway
- State Lettered Highway
- Principal Road
- Road or Street
- Private Road or Drive

County Boundaries

1:24,000 Rivers and Streams

- Perennial Stream/River
- Intermittent Stream/River
- Artificial Path (Approx. Centerline)
- Undifferentiated Stream/River
- Canal or Ditch
- Other Hydrologic Feature

NHD Rivers and Streams

- Perennial Stream/River
- Intermittent Stream/River
- Canal or Ditch

(cont)

- Artificial Path (Approx. Centerline)
- Other Hydrologic Feature

Incorporated Areas

- City
- Town
- Village
- Census Designated Place
- Other

1:24,000 Water Bodies

- Lake or Pond
- Lake or Pond (Intermittent)
- Reservoir
- Stream or River
- Swamp or Marsh
- Canal or Ditch
- Other Water Body

NHD Water Bodies

- Lake or Pond
- Lake or Pond (Intermittent)
- Reservoir
- Stream or River
- Swamp or Marsh

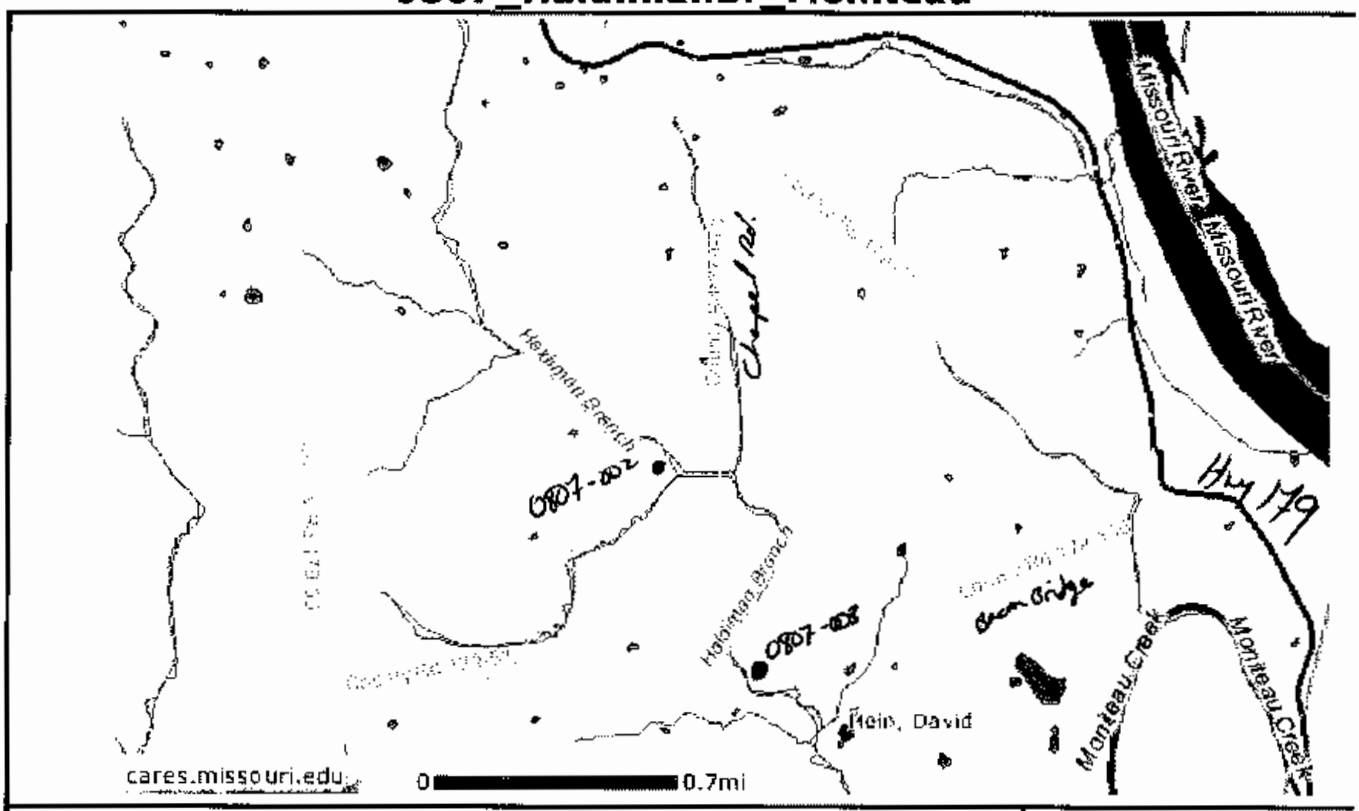
(cont)

Location Map

Map prepared by:
http://cares.missouri.edu, 7/11

Jamestown S Lagoon MO 0058203

0807_HaldimanBr_Moniteau



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- Stream or River
- Swamp or Marsh

(cont)

Location Map

Map prepared by:
http://cares.missouri.edu, 7/11

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 #: 0807-001	Site Location Description: Cave Springs Rd. Moniteau Co.
Site GPS Coordinates: N38.75958 W092.46548	
Date & Time: 7/14/05 8:33 AM	Facility Name: Jamestown S Lagoon
Personnel: Aaron Blackbaum	Permit Number: MO0058203
Current Weather Conditions: Clear, Humid 74°F	Weather Conditions for Past 7 days: Hot, Dry
Photo Ids: Upstream: 56-57 Downstream: 58-59.	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: Pasture, Livestock, Hills, Timber	

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:				

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)

*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

Page Two – WBID # 0807-001 **:** **Data Sheet B - Site Characterization**

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): 46	Length (ft): 30	Avg. Depth (ft): 1.0ft	Max. Depth (ft): 1.5ft
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): 0.25 ft^3/sec	

Downstream View Physical Dimensions:

☒ Riffle	Width (ft): 5	Length (ft): 15	Avg. Depth (ft): 1.0ft	Max. Depth (ft): 1.0ft
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): 1.0 ft^3/sec	

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

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

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

15% algae growth, mostly on upstream segment.

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
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.

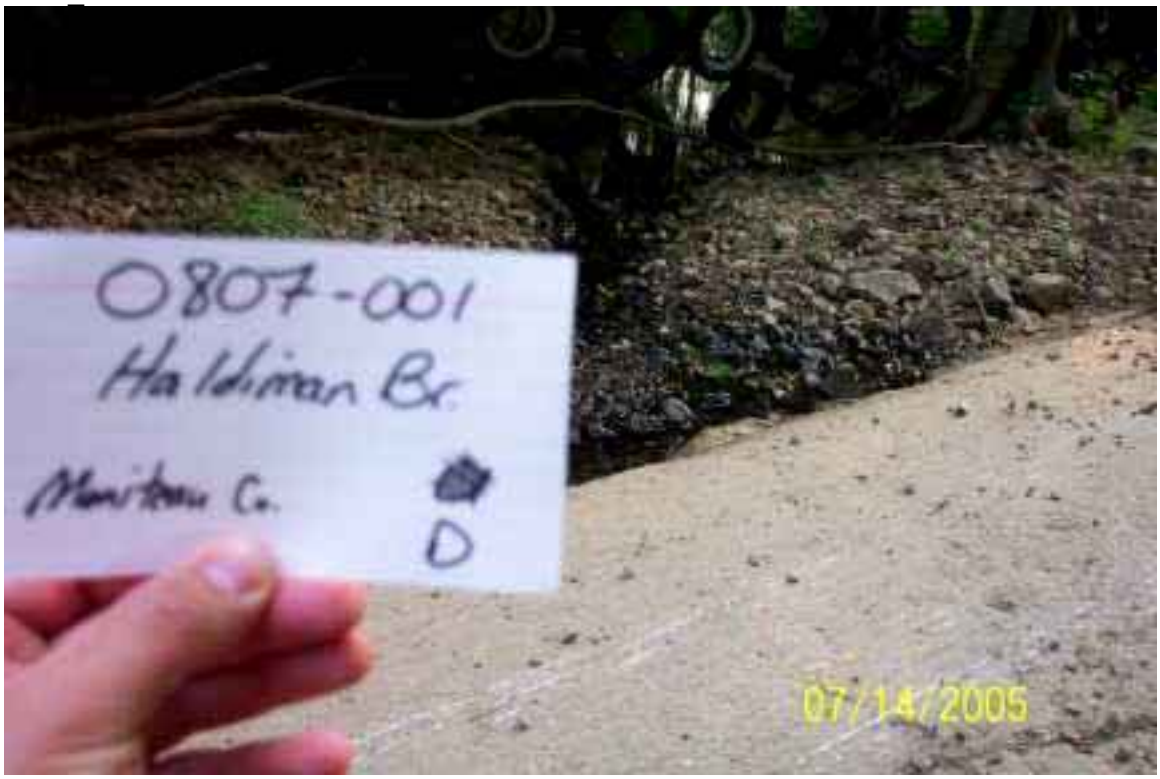
*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions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

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

Signed: Aaron Bleibaum **Date:** 7/14/05

Organization: MDNR - KCRO Position: Env. Specialist

0807_001 DS



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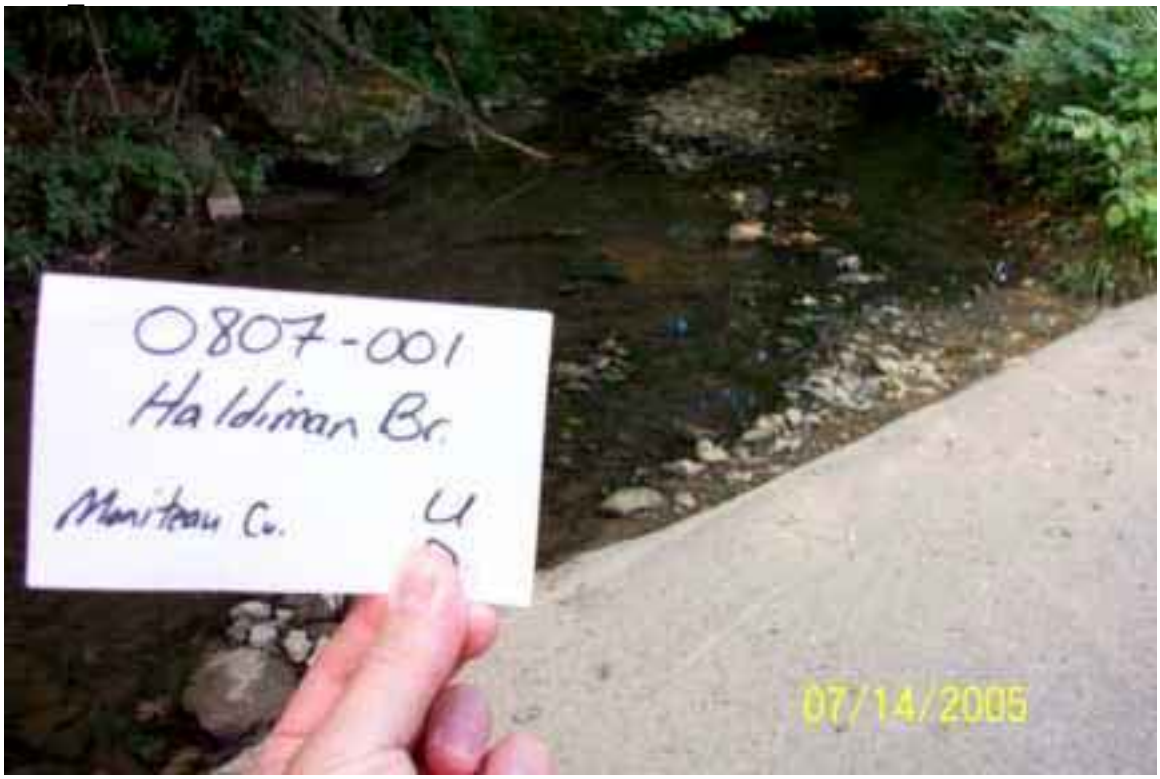
0807_001 US



0807_001 US

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 #: 0807-002	Site Location Description: Chapel Rd & Dietzel Rd Montreal Co.
Site GPS Coordinates: N38.73761 W092.49987	
Date & Time: 7/14/05 7:55AM	Facility Name: Jamestown S Lagoon
Personnel: Aaron Bleibaum	Permit Number: MO 0058203
Current Weather Conditions: Hazy, Clear	Weather Conditions for Past 7 days: Dry, Hot, Humid
Photo Ids: Upstream: 52 Downstream: 53	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: Pasture, Hills, timber	

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:				

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)

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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID # 0807.002 **:** **Data Sheet B - Site Characterization**

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): 24	Length (ft): 50	Avg. Depth (ft): 1.0ft	Max. Depth (ft): 1.5ft
☐ 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): 0	Length (ft): 0	Avg. Depth (ft):	Max. Depth (ft):
☐ Flow	Present? ☐ Yes ☒ No		Estimated (ft^3/sec):	Stream is dry

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

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

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

10% algae growth on rocks

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
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: Aaron Gleason **Date:** 7/14/05

Organization: MDNR - KCRO Position: Env. Specialist

0807_002 DS

0807_002 US

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 #: 0807.003	Site Location Description: Chapel Rd. Montcau Co.
Site GPS Coordinates: N38.72895 W092.42847	
Date & Time: 7/14/05 8:10 AM	Facility Name: Jamestown S Lagoon
Personnel: Aaron Bleibaum	Permit Number: MO 0058203
Current Weather Conditions: Clear, Humid 73°F	Weather Conditions for Past 7 days: Hot, Dry
Photo Ids: Upstream: ~~53~~ 54 Downstream: 55	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: Farm House, Livestock, pasture Hills, Timber	

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: Oil container, other plastic container				

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)

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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID # 0807-003 **Data Sheet B - Site Characterization**

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): 1.0 ft	Max. Depth (ft): 1.75 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):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 24	Length (ft): 70	Avg. Depth (ft): 1.0 ft	Max. Depth (ft): 1.5 ft
☐ Flow	Present? ☐ Yes ☒ No		Estimated (ft^3/sec):	

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

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

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

2% algae growth on rocks

Water Characteristics*: (Mark all that apply.)

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

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Signed: [signature] **Date:** 7/14/05

Organization: MDNR - KCRO Position: Env. Specialist

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0807_003 US