



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1295 Panther Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

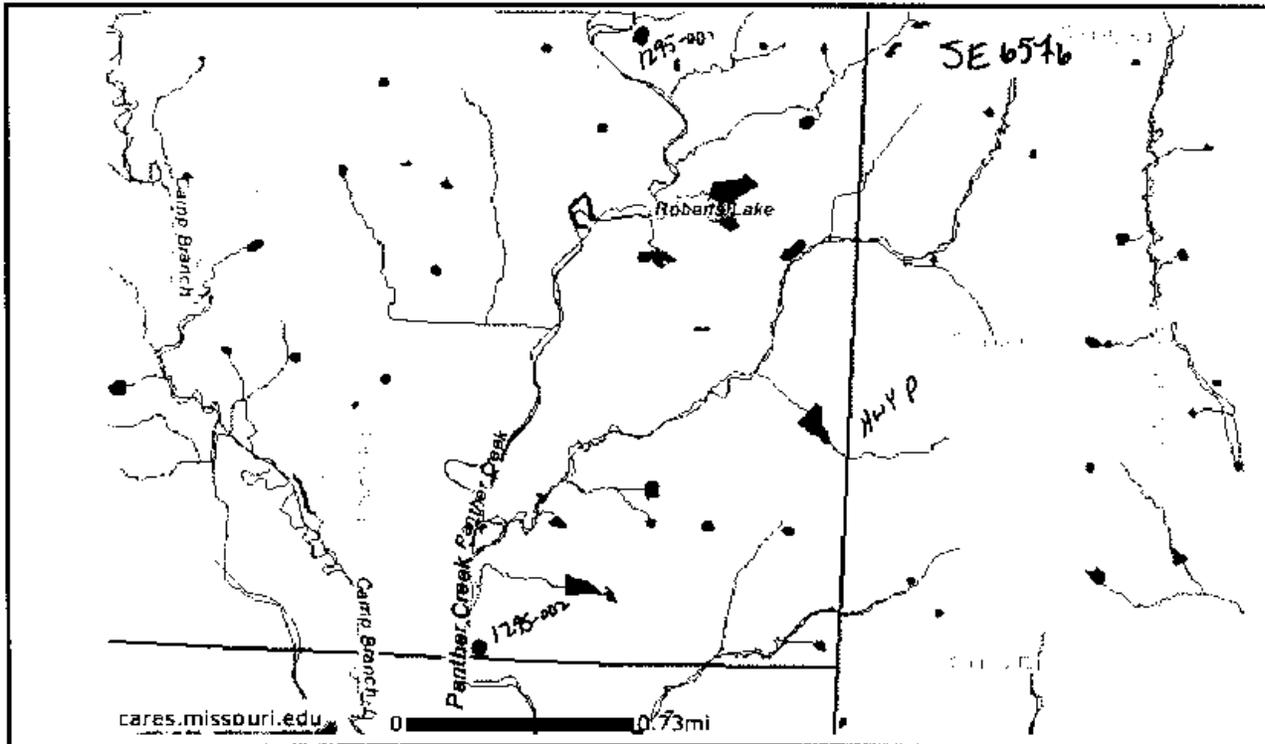
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WATER PROTECTION PROGRAM

Water Body Name (from USGS 7.5' quad):	<i>Panther Cr.</i>
8-digit HUC:	<i>10290105</i>
Missouri WBID #:	<i>1295</i>
County:	<i>Bates</i>
Upstream Legal Description:	<i>SE 6576 N.</i>
Downstream Legal Description:	<i>SE 7606 Rd.</i>
Upstream Coordinates:	<i>N 38.11943 W 094.08672</i>
Downstream Coordinates:	<i>N 38.07541 W 094.10058</i>
Discharger Facility Name(s):	<i>Rockville WWTP</i>
Discharger Permit Number(s):	<i>MO 0103748</i>
Number of Sites Evaluated:	<i>3</i>
Name of Surveyor and Telephone Number:	<i>Aaron Bleibaum 516-622-7018</i>
Organization:	<i>MDNR</i>
Position:	<i>Env. Specialist</i>

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: *7/7/05*

1295 - Panther Cr.



Legend

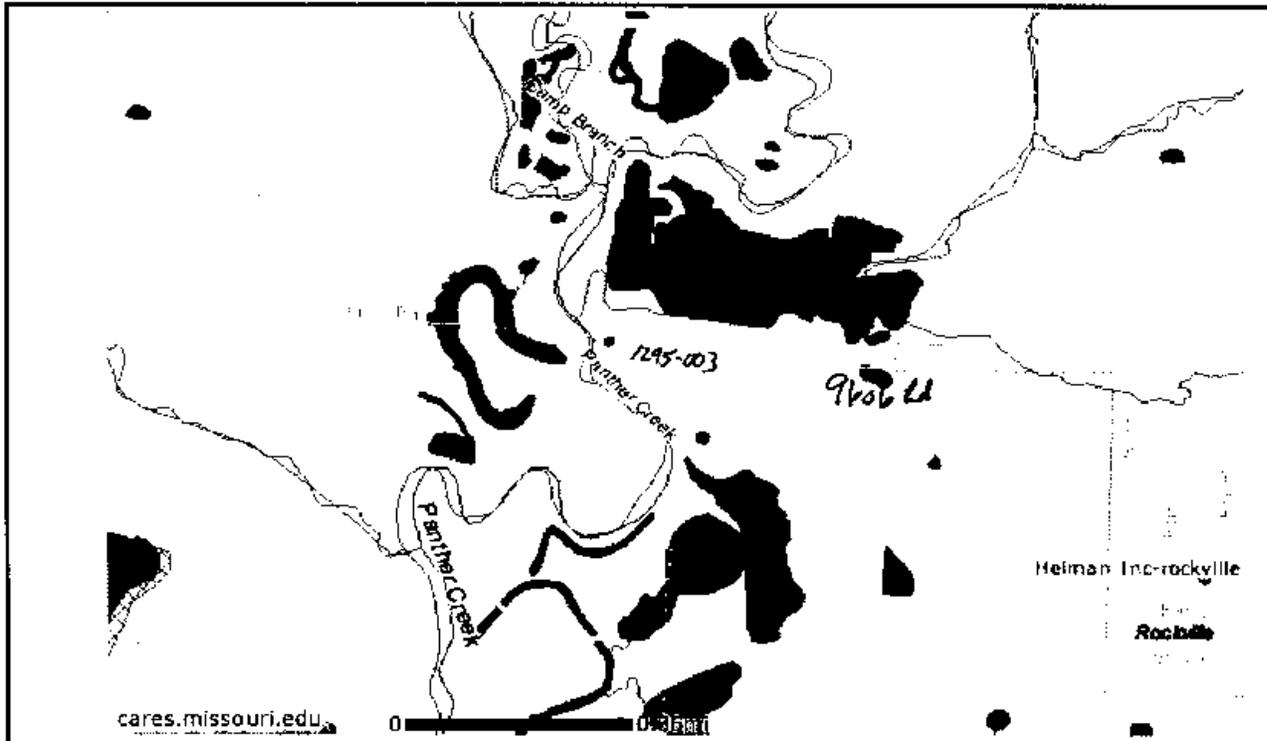
- | | |
|---|--|
| ● Water Quality Information System (WQIS) | — Artificial Path (Approx. Centerline) |
| | — Other Hydrologic Feature |
| Roads and Highways | Incorporated Areas |
| — Interstate | City |
| — U.S. Highway | Town |
| — State Numbered Highway | Village |
| — State Lettered Highway | Census Designated Place |
| — Principal Road | Other |
| — Road or Street | |
| — Private Road or Drive | |
| 1:24,000 Rivers and Streams | 1:24,000 Water Bodies |
| — Perennial Stream/River | ■ Lake or Pond |
| — Intermittent Stream/River | ▨ Lake or Pond (Intermittent) |
| — Artificial Path (Approx. Centerline) | ▩ Reservoir |
| — Undifferentiated Stream/River | ■ Stream or River |
| — Canal or Ditch | ■ Swamp or Marsh |
| — Other Hydrologic Feature | ▨ Canal or Ditch |
| NHD Rivers and Streams | ■ Other Water Body |
| — Perennial Stream/River | NHD Water Bodies |
| — Intermittent Stream/River | ■ Lake or Pond |
| — Canal or Ditch | ▨ Lake or Pond (Intermittent) |
| (cont) | ▩ Reservoir |
| | ■ Stream or River |
| | (cont) |

Location Map



Map prepared by:
<http://cares.missouri.edu>, 7/6,

1295 - Panther Cr.



Legend

- | | |
|---|--|
| ● Water Quality Information System (WQIS) | — Artificial Path (Approx. Centerline) |
| Roads and Highways | — Other Hydrologic Feature |
| — Interstate | Incorporated Areas |
| — U.S. Highway | — City |
| — State Numbered Highway | — Town |
| — State Lettered Highway | — Village |
| — Principal Road | — Census Designated Place |
| — Road or Street | — Other |
| — Private Road or Drive | 1:24,000 Water Bodies |
| 1:24,000 Rivers and Streams | ■ Lake or Pond |
| — Perennial Stream/River | ▨ Lake or Pond (Intermittent) |
| — Intermittent Stream/River | ▩ Reservoir |
| — Artificial Path (Approx. Centerline) | — Stream or River |
| — Undifferentiated Stream/River | — Swamp or Marsh |
| — Canal or Ditch | — Canal or Ditch |
| — Other Hydrologic Feature | ■ Other Water Body |
| NHD Rivers and Streams | NHD Water Bodies |
| — Perennial Stream/River | ■ Lake or Pond |
| — Intermittent Stream/River | ▨ Lake or Pond (Intermittent) |
| — Canal or Ditch | ▩ Reservoir |
| (cont) | — Stream or River |
| | (cont) |

Location Map



Map prepared by:
<http://cares.missouri.edu>, 7/6,

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 #: 1295-001	Site Location Description:	
Site GPS Coordinates: N 38.11941 W 091.08633	SE 65th Rd.	
Date & Time: 7/7/05 10:30 AM	Facility Name: Rockville WWTP	
Personnel: Aaron Bleibaum	Permit Number: MO 0103748	
Current Weather Conditions: Dry 78°F	Weather Conditions for Past 7 days: Dry	
Photo Ids: Upstream: 24-26	Downstream: 27-29	Other:

Uses Observed*:

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

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.)

<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 checked="" type="checkbox"/> Other: Pasture & Bean fields, Farms	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<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"/> Rope swings	<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:				

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

Data Sheet B - Site Characterization

Page Two - WBID # 1295-001

Stream Morphology:

Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>51</u>	Length (ft): <u>60</u>	Avg. Depth (ft): <u>1ft</u>	Max. Depth (ft): <u>1.75ft</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec): <u>1.5 ft³/sec</u>		

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>33</u>	Length (ft): <u>125</u>	Avg. Depth (ft): <u>1.5ft</u>	Max. Depth (ft): <u>2.5ft</u>
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec): <u>0.1 ft³/sec</u>		

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

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

2% algae

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 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 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: Ramon Blanton Date: 7/7/05

Organization: MDNR Position: Env. Specialist

1295_001 DS



1295_001 DS



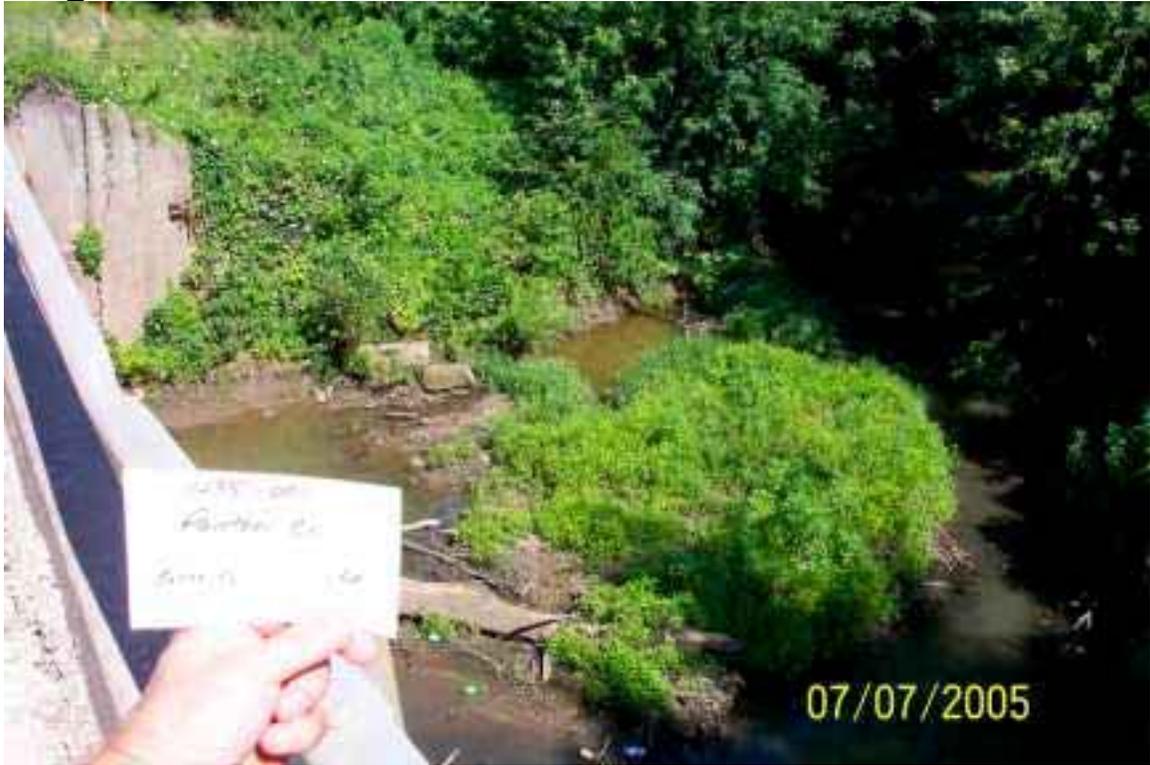
1295_001 DS



1295_001 US



1295_001 US



1295_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 #: <u>1295-002</u>	Site Location Description:	
Site GPS Coordinates: <u>N 38.08967 W 094.09694</u>	<u>Hwy 6 Bates Co.</u>	
Date & Time: <u>7/7/05 10:51 AM</u>	Facility Name: <u>Rockville WWTP</u>	
Personnel: <u>Aaron Hebbauer</u>	Permit Number: <u>MO 0103448</u>	
Current Weather Conditions: <u>Clear 80°F</u>	Weather Conditions for Past 7 days: <u>Dry</u>	
Photo Ids: Upstream: <u>30</u>	Downstream: <u>31-32</u>	Other:

Uses Observed*:

<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, 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.)

<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 checked="" type="checkbox"/> Other: <u>Timber</u>	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<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"/> Rope swings	<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:				

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

Data Sheet B - Site Characterization

Page Two - WBID # 1295-002:

Stream Morphology:

Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>30</u>	Length (ft): <u>100</u>	Avg. Depth (ft): <u>1.0ft</u>	Max. Depth (ft): <u>2.0ft</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Estimated (ft ³ /sec): <u>0.2 ft³/sec</u>	

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>30</u>	Length (ft): <u>100</u>	Avg. Depth (ft): <u>1.0ft</u>	Max. Depth (ft): <u>2.0ft</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Estimated (ft ³ /sec): <u>0.2 ft³/sec</u>	

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

<u>10</u> % Cobble	<u>10</u> % Gravel	% Sand	% Silt	<u>80</u> % Mud/Clay	% Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

None detected

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 type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>muddy</u>
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 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: *Lawrence Blunt* Date: 7/14/05

Organization: MONR Position: Env. Specialist

1295_002 DS



1295_002 DS



1295 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 #: <i>1295-005</i>	Site Location Description:	
Site GPS Coordinates: <i>N 38.07545 W 091.10051</i>	<i>SE 9600 Rd</i>	
Date & Time: <i>7/7/05 11:11 AM</i>	Facility Name: <i>Rockville WWTP</i>	
Personnel: <i>Aaron Bleibauer</i>	Permit Number: <i>MO 010348</i>	
Current Weather Conditions: <i>Dry 80°F</i>	Weather Conditions for Past 7 days: <i>Dry</i>	
Photo Ids: Upstream: <i>33-35</i>	Downstream: <i>36-38</i>	Other:

Uses Observed*:

<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 checked="" type="checkbox"/> Other: <i>Grffiti on bridge</i>

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.)

<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"/> Other: <i>Timber</i>	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<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"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: <i>Bear cans, trash</i>				

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

Data Sheet B - Site Characterization

Page Two - WBID # 128-003:

Stream Morphology:

Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>45</u>	Length (ft): <u>125</u>	Avg. Depth (ft): <u>1.5ft</u>	Max. Depth (ft): <u>2.5ft</u>
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Estimated (ft ³ /sec): <u>0.3 ft³/sec</u>	

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>45</u>	Length (ft): <u>120</u>	Avg. Depth (ft): <u>1.5ft</u>	Max. Depth (ft): <u>2.5ft</u>
<input checked="" type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Estimated (ft ³ /sec): <u>0.5 ft³/sec</u>	

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

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

No algal growth detected

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 type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>muddy</u>
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 checked="" type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

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

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Signed: Baron Blanton Date: 7/7/05

Organization: MWR Position: Env. Specialist

1295_003 DS



1295_003 DS



1295_003 DS



1295_003 US



1295_003 US



1295_003 US

