Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 2980 Lick Creek Ditch

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

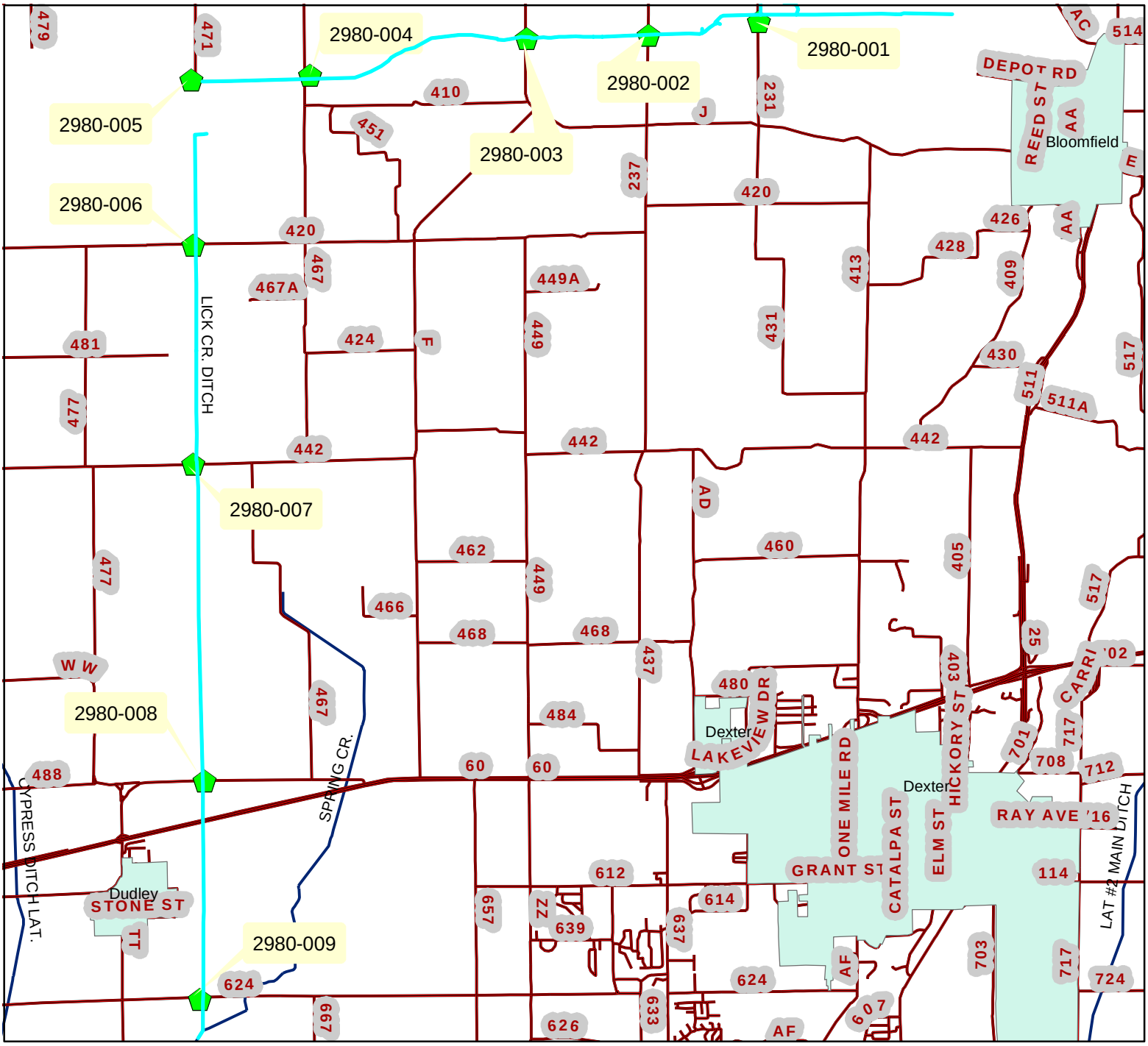
Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad):	Hack Creek Ditch
8-digit HUC:	08020203
Missouri WBID #:	2980
County:	Stoddard
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates:	36.90544 -89.98261 ap
Downstream Coordinates:	36.77643 -90.08040 ap
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	9
Name of Surveyor and Telephone Number:	R. Duchrow 573-751-6623
Organization:	Missouri Department of Natural Resources
Position:	Stream Biologist

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

Signed: _____ **Date:** 7/12/05

Lick Creek Ditch (C) #2980 Stoddard County
HUC8 = 08020203



Legend

- Roads
- Municipal Boundary
- Classified Waterbodies
- Counties

0 0.5 1 2 Miles

N W E S

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 #: 2980-001	Site Location Description:
Site GPS Coordinates: 36.90544 -89.98261	CO RD 231 BR
Date & Time: 7/7/05 1850 hrs	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - near Drought
Photo Ids: Upstream: 100-0052 Downstream: 100-0053	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.)

Looks Fishable US

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~~ Banks	☑ Other: Rural - Wooded / Cropland	

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: Some Trash				

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 # 2980-001 **:** **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): 20'	Length (ft): 90'	Avg. Depth (ft): 0.2'	Max. Depth (ft): 0.5'
☑ Flow	Present? ☐ Yes ☑ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions:

☑ Riffle	Width (ft): 6'	Length (ft): 15'	Avg. Depth (ft): 0.2'	Max. Depth (ft): 0.4'
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Pool	Width (ft): 30'	Length (ft): 100'	Avg. Depth (ft): 0.7'	Max. Depth (ft): 2.5'
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 1-2 cfs	

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

20	% Cobble	50	% Gravel	20	% Sand	10	% Silt	% Mud/Clay	% Bedrock

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

Filamentous algae ow stream bed US 90% DS 70% organic scum US 60% DS 0%

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: filamentous algae
Surface Deposit:	☐ Oil	☑ Scum organic	☐ 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: [signature] **Date:** 7/7/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-001 DS

All photos were not included because of duplication.

2980-001 US

All photos were not included because of duplication.

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 #: 2980-002	Site Location Description:
Site GPS Coordinates: 36.90340 -90.00142	CR 830 237 BR
Date & Time: 7/7/05 1915 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC w/ haze	Weather Conditions for Past 7 days: Clear - Heat Drought
Photo Ids: Upstream: 100-0054 Downstream: 100-0055	Other: 100-0056 US Dumping

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.)

Look - audible Bullfrog calling water

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~~ Banks	☐ Other:	

Evidence of Human Use*: DS

☑ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☑ RV / (ATV Tracks)
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☑ Other: Significant Trash Dumping @ Site				

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 # 2980-002 **:** **Data Sheet B - Site Characterization**

Stream Morphology:

Upstream View Physical Dimensions:

☑ Riffle	Width (ft): 6'	Length (ft): 12'	Avg. Depth (ft): 0.1	Max. Depth (ft): 0.2
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Pool	Width (ft): 15'	Length (ft): 120'	Avg. Depth (ft): 0.2'	Max. Depth (ft): 0.4'
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): <1cfs	

Downstream View Physical Dimensions:

☑ Riffle	Width (ft): 8'	Length (ft): 30'	Avg. Depth (ft): 0.1'	Max. Depth (ft): 0.3'
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Pool	Width (ft): 20'	Length (ft): 40'	Avg. Depth (ft): 0.2'	Max. Depth (ft): 0.4'
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 1 cfs	

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

10 % Cobble	~~5~~ 50 % Gravel	30 % Sand	10 % Silt	% Mud/Clay	% Bedrock

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

Close Growing Algae on Stream Bed US & DS 100%

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: Close growth algae
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:** 7/7/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-002 DS

2980-002 US

All photos were not included because of duplication.

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 #: 2980-003	Site Location Description:
Site GPS Coordinates: 36.90373 -90.02178	Hwy 5 BR
Date & Time: 7/7/08 1945 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC w/ Haze	Weather Conditions for Past 7 days: Clear - warm Drought
Photo Ids: Upstream: 100-0057	Downstream: 100-0058 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~~ Banks	☑ Other: Rural - Grassland / Wooded	

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: Some Trash Dumping				

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

2950-003 **Data Sheet B - Site Characterization**

Page Two – WBID #_____:

Stream Morphology:

Upstream View Physical Dimensions:

☑ Riffle	Width (ft):	3'	Length (ft):	15'	Avg. Depth (ft):	<0.1'	Max. Depth (ft):	0.1
☐ Run	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Pool	Width (ft):	10'	Length (ft):	60'	Avg. Depth (ft):	0.3'	Max. Depth (ft):	0.4'
☐ Flow	Present?	☑ Yes ☐ No			Estimated (ft^3/sec):	<1cfs		

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):	10' - 25'	Length (ft):	100'	Avg. Depth (ft):	0.3'	Max. Depth (ft):	0.5'
☑ Flow	Present?	☑ Yes ☐ No			Estimated (ft^3/sec):	<1cfs		

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

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

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

Rich mixture of algae in stream 45 90% 35 30%

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

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-003 DS

All photos were not included because of duplication.

2980-003 US

All photos were not included because of duplication.

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 #: 3980-604	Site Location Description: CO RD 467 BR
Site GPS Coordinates: 36.39910 -90.05892	
Date & Time: 7/8/05 1105 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions:	Weather Conditions for Past 7 days: Clear - Near Drought
Photo Ids: Upstream: 100-0059	Downstream: 100-0060 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.)

Shotgun shell on BR, us side Photo: 100-0061

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~~ Banks	☑ Other: Rural - Cropland	

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: Some Trash				

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 # 2980-004 **:** **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): 25'	Length (ft): 300'	Avg. Depth (ft): 0.5'	Max. Depth (ft): 1.0'
☑ 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): 30'	Length (ft): 300'+	Avg. Depth (ft): 0.[illegible]'	Max. Depth (ft): 2.0'
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): < 1cfs	

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

10 % Cobble	30 % Gravel	50 % Sand	10 % Silt	% Mud/Clay	% Bedrock

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

Cobble Gravel Algal [illegible] Trash Bed 45 40% 25 30%

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: [signature] **Date:** 7/8/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-004 DS

2980-004 US

All photos were not included because of duplication.

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 #: 3590 - 005	Site Location Description: CO RD 471 BR
Site GPS Coordinates:	
Date & Time: 7/8/05 1155hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - worse Drought
Photo Ids: Upstream: ~~100 - 005~~	Downstream: ~~100 - 005~~ Other:

NO PHOTOS TAKEN

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.)

COMPLETELY INACCESSIBLE

CO Road 471 ends 0.5 miles from stream.

Drainage Patterns in this reach altered by other Ditches

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:				

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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3980-005 **Data Sheet B - Site Characterization**

Page Two – WBID #_____:

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):	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):	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):	

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

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

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

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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Signed: _____ **Date:** 7/8/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

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 #: 2980 - 006	Site Location Description:
Site GPS Coordinates: 36.87732 -90.07797	CO RD 420 BR
Date & Time: 7/8/05 1210 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - near Drought
Photo Ids: Upstream: 100-0062	Downstream: 100-0063 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.)

Fishable Pools .25 Stream BR

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~~ Banks	☑ Other: Rural - Cropland / Residence	

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: Some Trash				

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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Page Two – WBID #2980-006: **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):	300'+	Avg. Depth (ft):	1.5'	Max. Depth (ft):	3.5'	
☑ Flow	Present?	☑ Yes	☐ No		Estimated (ft^3/sec):	4.1cfs			

Downstream View Physical Dimensions:

☑ Riffle	Width (ft):	8'	Length (ft):	50'	Avg. Depth (ft):	0.1	Max. Depth (ft):	0.3	
☑ Run	Width (ft):	25'	Length (ft):	100'	Avg. Depth (ft):	0.2'	Max. Depth (ft):	0.3'	
☒ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):		
☑ Flow	Present?	☑ Yes	☐ No		Estimated (ft^3/sec):	1cfs			

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

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
		60	30	10	

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

Filamentous algae present on stream bed 35 30%

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: _____ **Date:** 7/18/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-006 DS

2980-006 US

All photos were not included because of duplication.

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 #: 3980-007	Site Location Description:
Site GPS Coordinates: 36.84793 -90.07874	CO. RD. 442 BR
Date & Time: 7/8/05 1230 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - near Drought
Photo Ids: Upstream: 100-0064	Downstream: 100-0065 Other: SEE BELOW

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.)

FISH NOTED BY CR PHOTO: 100-0066 .22 CAL CASES NOTED ON BY SIDE OF CR PHOTO 100-0067

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~~ Banks	☑ Other: Rural - Cropland/Residence	

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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Page Two – WBID #1980-007: **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):	10'-20'	Length (ft):	300'	Avg. Depth (ft):	0.1'	Max. Depth (ft):	0.7'	
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):		
☑ Flow	Present? ☑ Yes ☐ No				Estimated (ft^3/sec):	1-2 cfs			

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):		
☑ Run	Width (ft):	15'-30'	Length (ft):	300'	Avg. Depth (ft):	0.5'	Max. Depth (ft):	1.5'	
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):		
☑ Flow	Present? ☑ Yes ☐ No				Estimated (ft^3/sec):	3-4 cfs			

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

5	% Cobble	30	% Gravel	70	% Sand	5	% Silt		% Mud/Clay		% Bedrock

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

Filamentous algae present 5% 5% 30 20% some emergent aquatic plants noted 25 5%

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: _____ **Date:** 7/8/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-007 DS

All photos were not included because of duplication.

2980-007 US

All photos were not included because of duplication.

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 #: 2980-008	Site Location Description:
Site GPS Coordinates: 36.80547 -90.07949	CO RD 488 BR
Date & Time: 7/8/05 1305 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - near Dought
Photo Ids: Upstream: 100-0068 Downstream: 100-0069	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.)

Fish commonly noted US & DS

.22 cal cases noted on DS side of BR

Photo: 100-0070

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~~ Banks	☑ Other: Rural - Cropland	

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

3980-008 **Data Sheet B - Site Characterization**

Page Two – WBID #_____:

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Run	Width (ft):	30'	Length (ft):	1000'	Avg. Depth (ft):	0.4'	Max. Depth (ft):	1.0'
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Flow	Present?	☑ Yes ☐ No			Estimated (ft^3/sec):	1-3 cfs		

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Run	Width (ft):	40' average	Length (ft):	1200'	Avg. Depth (ft):	0.2'	Max. Depth (ft):	0.5'
☐ Pool	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Flow	Present?	☑ Yes ☐ No			Estimated (ft^3/sec):	4-6 cfs		

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

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

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

filamentous algae noted on bottom US 20% DS 10%

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: _____ **Date:** 7/8/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-008 DS

2980-008 US

All photos were not included because of duplication.

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 #: 2980-009	Site Location Description:
Site GPS Coordinates: 36.77643 - 90.08040	CO RD 624 BR
Date & Time: 7/8/05 1340 hrs.	Facility Name:
Personnel: R. Duchrow	Permit Number:
Current Weather Conditions: PC	Weather Conditions for Past 7 days: Clear - wave Drought
Photo Ids: Upstream: 100-0071 Downstream: 100-0072	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.)

Minnows noted at EDS

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~~ Banks	☑ Other: Rural - Cropland / Residence	

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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Page Two – WBID # 2980-009 **: Data Sheet B - Site Characterization**

Stream Morphology:

Upstream View Physical Dimensions:

☑ Riffle	Width (ft):	15'	Length (ft):	6'	Avg. Depth (ft):	0.1'	Max. Depth (ft):	0.2'
☐ Run	Width (ft):		Length (ft):		Avg. Depth (ft):		Max. Depth (ft):	
☑ Pool	Width (ft):	25'	Length (ft):	1000'	Avg. Depth (ft):	0.5'	Max. Depth (ft):	1.0'
☑ Flow	Present?	☑ Yes	☐ No		Estimated (ft^3/sec):	10-15 cfs		

Downstream View Physical Dimensions:

☑ Riffle	Width (ft):	30'	Length (ft):	50'	Avg. Depth (ft):	0.1'	Max. Depth (ft):	0.2'
☑ Run	Width (ft):	30'	Length (ft):	50'	Avg. Depth (ft):	0.5'	Max. Depth (ft):	0.9'
☑ Pool	Width (ft):	30'	Length (ft):	60'	Avg. Depth (ft):	0.4'	Max. Depth (ft):	0.7'
☑ Flow	Present?	☑ Yes	☐ No		Estimated (ft^3/sec):	10-15 cfs		

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

20	% Cobble	30	% Gravel	40	% Sand	10	% Silt		% Mud/Clay		% Bedrock

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

Close Grown Algae noted on Bottom 45:05 9020

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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Signed: _____ **Date:** 7/8/05

Organization: Missouri Department of Natural Resources Position: Stream Biologist

2980-009 DS

All photos were not included because of duplication.

2980-009 US

All photos were not included because of duplication.