Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0734 Clifton Creek

Submitted by
MEC Water Resources

To
Missouri Department of Natural Resources
Water Protection Program

On
December 1, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Clifton Creek
Missouri Water Body Identification (WBID) Number:	734
8-digit HUC: 10300102	County: Callaway
Upstream Legal Description (from Table H):	10, 45N, 11W
Downstream Legal Description(from Table H):	Mouth
Number of sites evaluated	3
List all sites numbers, listed consecutively upstream to downstream:	

II. Discharger Facility Information (list all permitted dischargers on the stream)

Discharger Facility Name(s):	CN, Golden Ponds Subdivision
Discharger Permit Number(s):	MO0118800

III. UAA Surveyor (please print legibly)

Name of Surveyor James Ueverka, Tim Altnether	Telephone Number: 573-443-4100
Organization/Employer: MEC Water Resources	
Position: Water Quality Scientist	

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed: [signature] **Date:** 10/31/07

WBID # 0734

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/22/07 1:03	Site Location Description (e.g., road crossing): ~~TA Upstream from site 2~~ TA ~~Upstream~~ Hiked upstream From site 2
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Cloudy, Rain	Facility Name:
Weather Conditions for Past 10 days: Clear	Permit Number:
Drought Conditions?: No drought ☑; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4282166	Northing (UTM Y): 0573750	Horizontal Accuracy: (EPE / FOM / PDOP) 6.9 Meters
Site 11	Easting (UTM X): 4282030	Northing (UTM Y): 0573785	Horizontal Accuracy: (EPE / FOM / PDOP) 6.8 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0734-1-1252	US	0734-1-1253	DNS		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

☐ 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, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

None Observed

WBID # 0734

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☑ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☑ Steep slopes	☑ Other: Riparian

Comments:

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other:

None Observed

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

20 % Cobble	35 % Gravel	40 % Sand	% Silt	% Mud/Clay	5 % Bedrock

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

Smart weed, grasses, Algae + periphyton rare

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:

*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.

WBID # 0734

Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
		N/A			

Comments: (Please record any additional comments here.)

N/A

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: [signature] Date of Survey: 10/22/07

Organization: MEC Water Resources Position: Water Quality Scientist

RWC 10-30-07

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0734 Site #: 1 (wbid_site #)

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4282166 UTM Y: 0573750 +/- 6.9 (meters)

11 UTM X: 4282030 UTM Y: 0573785 +/- 6.8 (meters)

Average Stream Width: 6 (meters) (To determne Length of Reach)

Length of Survey Segment: 150 (meters) (20x average stream width)

Field Staff: TA, JV

Dissolved Oxygen

Date: 10/22/07 Time: 1:03

Dissolved Oxygen: 1.87 (mg/L)

Dissolved Oxygen: 17.9 (% sat)

Specific Cond: 366.2 (µS/cm)

Water Temperature: 13.4 (°C)

Collected @ T7

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1											0.14	0.05	0.29	0.03								
2											0.28	0.03	0.58	0.01								
3											0.42	0.11	0.87	0.02								
4											0.56	0.13	1.16	0.05								
5											0.70	0.13	1.45	0.0								
6											0.84	0.15	1.74	0.05								
7											0.99	0.18	2.03	0.09								
8											1.12	0.10	2.32	0.10								
9											1.26	0.18	2.61	0.14								
Right Bank		0		0		0		0		0	1.4	0	2.9	0		0		0		0		0
Feature Type (riffle, run, or pool)	Dry		Dry		Dry		Dry		Dry		Run		Run		Dry		Dry		Dry		Dry	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

RMC 10-30-07

Signed: [signature] Date: 10/22/07

WBID # 0734

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/22/07 12:27	Site Location Description (e.g., road crossing): CRD 382 Bridge
Personnel (Data Collectors): TA, JV	
Current Weather Conditions: Cloudy, Rain	Facility Name:
Weather Conditions for Past 10 days: Clear	Permit Number:
Drought Conditions?: No drought ☑; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4281531	Northing (UTM Y): 0573565	Horizontal Accuracy: (EPE / FOM / PDOP) 7.4 Meters
Site 11	Easting (UTM X): 4281562	Northing (UTM Y): 0573411	Horizontal Accuracy: (EPE / FOM / PDOP) 18.6 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0734-2-1250	US	0734-2-1251	DNS		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

☐ 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, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

None Observed

WBID # 0734

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☑ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☑ Steep slopes	☑ Other: Riparian

Comments:

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other:

None Observed

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

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

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

Grasses, algae & periphyton rare, smart weed

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☐ None	☑ Other: N/A
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Dry
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☐ None	☑ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☐ None	☑ Other:

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WBID # 0734

Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
		N/A			

Comments: (Please record any additional comments here.)

N/A

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: [signature] Date of Survey: 10/22/07

Organization: MEC Water Resources Position: Water Quality Scientist

AMC 10-30-07

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0734 Site #: 2

Estimated Channel Incision: 0.25 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4281531 UTM Y: 0573565 +/- 7.4 (meters)

11 UTM X: 4281562 UTM Y: 0573411 +/- 10.6 (meters)

Average Stream Width: 7 (meters) (To determne Length of Reach)

Length of Survey Segment: 150 (meters) (20x average stream width)

Field Staff: TA, JV

Dissolved Oxygen

Date: 10/22/07 Time: 12:27

Dissolved Oxygen: N/A (mg/L)

Dissolved Oxygen: (% sat)

Specific Cond: (µS/ cm)

Water Temperature: (°C)

No water at site

Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
Right Bank		0		0		0		0		0		0		0		0		0		0		0
Feature Type (riffle, run, or pool)	Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry		Dry	

DRY

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

RWC 10-30-07

Signed: [signature] Date: 10/22/07

WBID # 0734

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/22/07 10:45	Site Location Description (e.g., road crossing): CR 397 Bridge @ Cedar Creek
Personnel (Data Collectors): YA, JV	
Current Weather Conditions: Cloudy, Rain	Facility Name:
Weather Conditions for Past 10 days: Clear	Permit Number:
Drought Conditions?: No drought ☑; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4281504	Northing (UTM Y): 0570746	Horizontal Accuracy: (EPE / FOM / PDOP) 7.5 Meters
Site 11	Easting (UTM X): 4281246	Northing (UTM Y): 0570687	Horizontal Accuracy: (EPE / FOM / PDOP) 9.7 Meters

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
0734-3-1247	US	0734-3-1248	DNS		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

☐ 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, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

None Observed

WBID # 0734

Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☑ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☑ Fence	☑ No trespass sign	☑ Steep slopes	☑ Other: Riparian/Pasture

Comments:

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other:

None Observed

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

% Cobble	% Gravel	TAB 80 % Sand	5 % Silt	15 % Mud/Clay	% Bedrock

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

Smartweed, grasses, algae & periphyton uncommon

Water Characteristics*: (Mark all that apply.)

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

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WBID # 0734
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

N/A

Comments: (Please record any additional comments here.)

Site Near confluence @ Cedar Creek

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: [signature] Date of Survey: 10/22/07

Organization: MEC Water Resources Position: Water Quality Scientist

MWC 10-30-07

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: 0734 Site #: 3 (wbid_site #)

Estimated Channel Incision: 0.10 (m) (height between low bank width and water)

GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM)

01 UTM X: 4281504 UTM Y: 0570746 +/- ~~7.44~~ 7.5 (meters)

11 UTM X: 4281246 UTM Y: 0570687 +/- 9.7 (meters)

Average Stream Width: 20 (meters) (To determne Length of Reach)

Length of Survey Segment: 400 (meters) (20x average stream width)

Field Staff: ~~TA, JV~~ TA, JV

Dissolved Oxygen

Date: 10/22/07 Time: 10:45

Dissolved Oxygen: 4.13 (mg/L)

Dissolved Oxygen: 42.3 (% sat)

Specific Cond: 446.5 (µS/cm)

Water Temperature: 16.5 (°C)

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1.81	0.85	~~2.37~~ 2.30	>1.0	2.46	0.59	2.24	>1.0	~~2.74~~ 2.30	0.80	2.16	>1.0	2.18	0.85	2.17	0.78	2.25	>1.0	1.98	0.60	1.86	0.94
2	3.62	0.95	3.4	0.95	4.92	0.89	4.48	>1.0	4.6	>1.0	4.32	>1.0	4.36	>1.0	4.26	>1.0	4.5	>1.0	3.96	>1.0	3.72	>1.0
3	5.43	>1.0	5.1	0.83	7.38	0.99	6.72	>1.0	6.9	>1.0	6.48	>1.0	6.54	>1.0	6.39	>1.0	6.75	>1.0	5.94	>1.0	5.58	>1.0
4	7.24	>1.0	6.8	0.68	9.84	>1.0	8.96	>1.0	9.2	0.82	8.64	0.85	8.72	>1.0	8.52	>1.0	9.0	>1.0	7.92	>1.0	7.44	>1.0
5	9.05	>1.0	8.5	0.54	12.3	>1.0	11.2	>1.0	11.5	0.78	10.8	0.59	10.9	>1.0	10.65	>1.0	11.25	>1.0	9.9	>1.0	9.3	>1.0
6	10.86	0.87	10.2	0.44	14.76	>1.0	13.44	0.99	13.8	0.65	12.96	0.17	13.08	>1.0	12.78	>1.0	13.5	>1.0	11.88	>1.0	11.16	>1.0
7	12.67	0.75	11.9	0.36	17.22	>1.0	15.68	0.60	16.1	0.60	15.12	0.15	15.26	>1.0	14.91	>1.0	15.75	>1.0	13.86	>1.0	13.02	>1.0
8	14.48	0.75	13.6	0.36	19.68	0.89	17.92	0.25	18.4	0.19	17.28	0.17	17.44	>1.0	17.04	0.95	18.0	>1.0	15.84	>1.0	14.88	>1.0
9	16.29	0.60	15.3	0.25	22.14	0.75	20.16	0.45	20.7	0.03	19.44	0.14	19.62	>1.0	19.17	0.73	20.25	0.65	17.82	>1.0	16.74	0.95
Right Bank	18.1	0	~~21.7~~ 17.0	0	24.6	0	22.4	0	~~21.4~~ 23.0	0	21.6	0	21.8	0	21.3	0	22.5	0	19.8	0	18.6	0
Feature Type (riffle, run, or pool)	Run		Run		Run		Run		Run		Run		Run		Run		Run		Run		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)

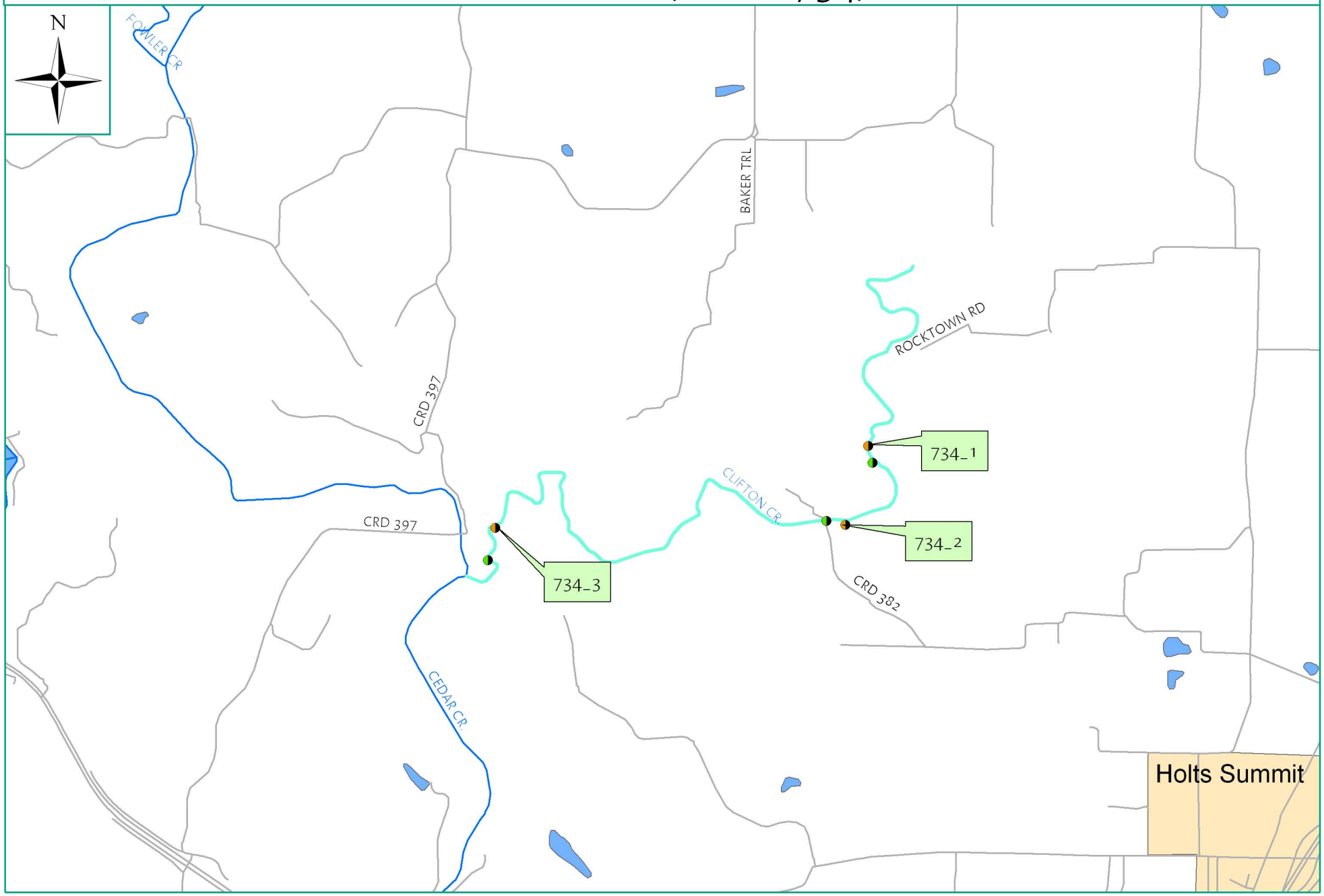
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

BWC 10-30-07

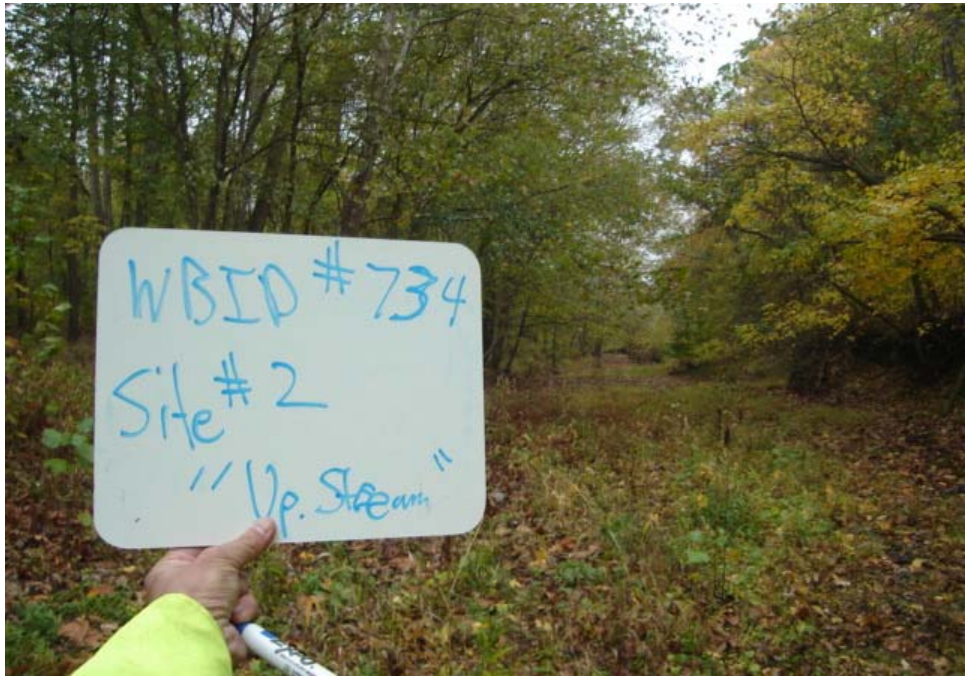
Signed: [signature] Date: 10/22/07

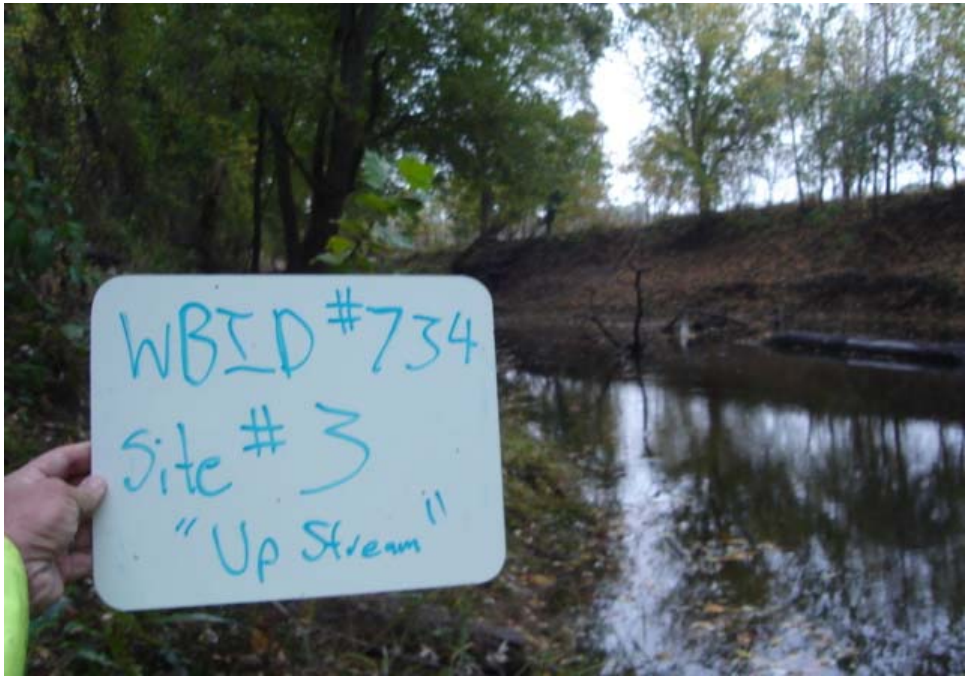
Clifton Creek (WBID 734)

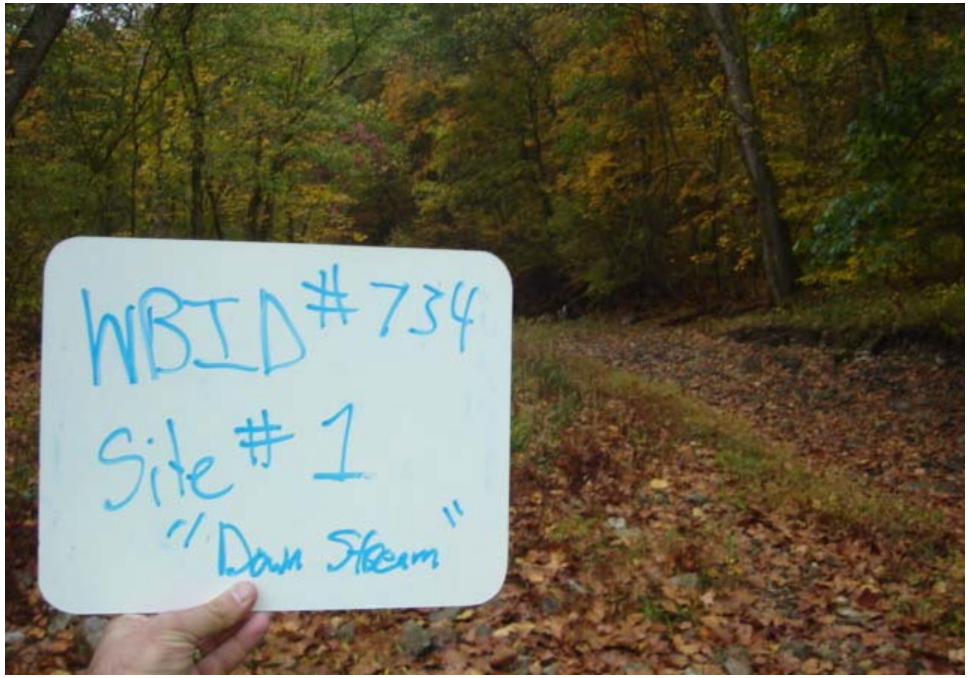


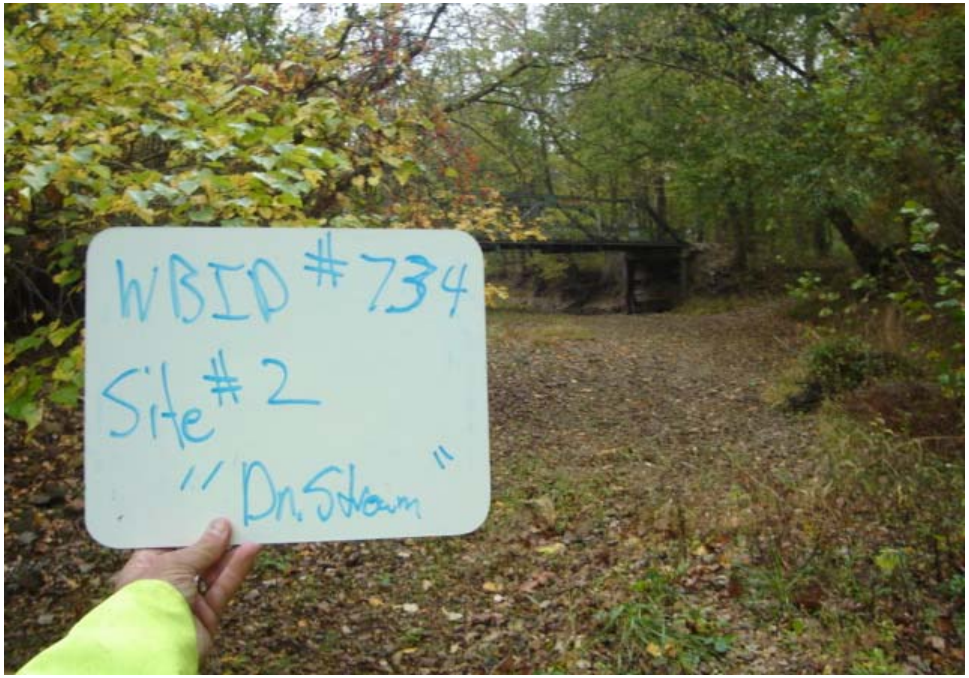
Upstream Boundary
Downstream Boundary

0 0.25 0.5 1 1.5 2 Miles


WBID #734
Site #2
"Up. Stream"


WBID #734
Site #3
"Up Stream"


WBID #734
Site #1
"Down Stream"


WBID #734
Site #2
"Dn. Stream"

WBID #734
Site #1
"Up Stream"

WBID #734
Site #3