



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1863 Little Dry Fork

Submitted by

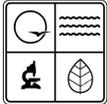
Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Date Received: June 29, 2006

JUN 29 2006

Field-Data-Sheets-for-Recreational-UseStream Surveys

Missouri
Department of Natural Resources
Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

Water Body Name (from USGS 7.5' quad):	Little Dry Fork - Class P
8-digit HUC:	07140102
Missouri WBID #:	1863
County:	Phelps
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates:	
Downstream Coordinates:	
Discharger Facility Name(s):	Pines Subd.
Discharger Permit Number(s):	
Number of Sites Evaluated:	2 (class P)
Name of Surveyor and Telephone Number:	Grawford/Du'krow
Organization:	DNR windrushat@yahoo.com
Position:	ES

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

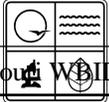
Signed: Ann Grawford Date: 6-29-06
- John Du'krow

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

W03D 1863-001
Site #1



Missouri Department of Natural Resources

Missouri W03D# 1863-001	Site Location Description: ADAMS CO.	
Site GPS Coordinates: 37.93646 a 1.71293	Little Dry Creek - 3000 Bridge accuracy waypoint #2	
Date & Time: 6-28-06	Facility Name: TRIP <small>waypoint stream from FV02 Pr</small>	
Personnel: Crawford/Duchow	Permit Number:	
Current Weather Conditions: ptly clud, dry	Weather Conditions for Past 7 days: dry	
Photo Ids: Upstream: #3	Downstream: #4	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.)				
Children observed playing in wad S mouth bass, nesting				

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 type="checkbox"/> Other:	

Evidence of Human Use*:

<input 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: Interview - children fish + play, not aware				

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



Missouri: Site #:
Department of
Natural Resources

width: 6" 7" 6" 6"

7" 7" 7" 9" 8" 8" 6" 3"

Upstream View Physical Dimensions:

@Riffle	Width (ft): 14'	Length (ft): 14'	Avg. Depth (ft): 6.375	Max. Depth (A): 4"
<input checked="" type="checkbox"/> Run	Width (A): 24', 38', 45'	Length (ft): 200' +	Avg. Depth (A): 6.25"	Max. Depth (ft): 7"
<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):		

Downstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (A):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): 25'	Length (ft): 63'	Avg. Depth (ft): 11"	Max. Depth (ft): 15"
<input checked="" type="checkbox"/> Pool	Width (A):	Length (ft): 54'	Avg. Depth (ft): 28.7"	Max. Depth (ft): 41" (depth)
<input type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec): 1.8-3		

measured = 0.44 corrected velocity MC

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

60 % Cobble	40 % Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

lots of filamentous algae - 70% covered

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 checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input checked="" type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other: filamentous algae
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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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: _____

Organization: _____ Position: _____

WBID 1863-01 – downstream



WBID 1863-01 – downstream



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

Missouri Department of Natural Resources		Site Location Description: <i>downstream from Vonz</i>	
WBID #: <i>14351</i>		<i>Little Dry Fork</i>	
Site GPS Coordinates: <i>37° 14' 51" N, 91° 07' 50" W</i>		<i>Waypoint # 1 Site #2 - CR 3000</i>	
Date & Time: <i>6-28-06</i> <i>EPU-25'</i>		Facility Name:	
Personnel: <i>Crawford / Duchow</i>		Permit Number:	
Current Weather Conditions: <i>clear, dry</i>		Weather Conditions for Past 7 days: <i>dry</i>	
Photo Ids: Upstream: <i>#5</i>	Downstream: <i>#6</i>	Other:	

no photos - blurry

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 type="checkbox"/> Steep slopes	<input type="checkbox"/> Other: <i>forested</i>	

Evidence of Human Use*:

<input 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>target practice - writing on bridge</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

Page Two **Missouri Department of Natural Resources** **Site Data Sheet B - Site Characterization**



WBID #:
 Site #: #2
 Stream Morphology: estimates

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>30'</u>	Avg. Depth (ft): <u>12"</u>	Max. Depth (ft): <u>30"</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Estimated (ft ³ /sec):	

Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): <u>15'</u>	Length (ft): <u>100'</u>	Avg. Depth (ft): <u>5"</u>	Max. Depth (ft): <u>8"</u>
<input checked="" type="checkbox"/> Run	Width (ft): <u>35'</u>	Length (ft): <u>100'</u>	Avg. Depth (ft): <u>10"</u>	Max. Depth (ft): <u>18"</u>
<input checked="" type="checkbox"/> Pool	Width (ft): <u>30'</u>	Length (ft): <u>20'</u>	Avg. Depth (ft): <u>18" est</u>	Max. Depth (ft): <u>30" est</u>
<input type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Estimated (ft ³ /sec):	

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

<u>30%</u> Cobble	<u>60%</u> Gravel	<u>10%</u> Sand	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

50% cover - close growing 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 checked="" type="checkbox"/> Clear	<input 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 type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Scum <u>little</u>	<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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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:** _____

Organization: _____ **Position:** _____

Summary of Public Comments														
Department of Natural Resources														
Postmark Date	Date Rec'd	Person Name	Address	City	State	Zip	Phone	WB County	WB Name	WBID #	General Comments	Newspaper	Issue	Email
6/15/2005	6/17/2005	Leon	14796 County Rd 3200	Rolla	MO	65401	N/A	Phelps	Little Dry Fork Creek	1863	His family swims in the creek. This is a losing stream that charges Meramec Spring. Section 23 &24, T37N, R7W			
8/24/2005	8/24/2005	Michael	324 Manter Hall, U of NE	Lincoln	NE	68588	402-472-2720	Phelps	Little Dry Fork	1863	He is a biologist at the U. of Ne studying Plains Topminnow. They collected in Mo at 10 sites in the Osage, Gasconade and Spring R. drainages. He is concerned that these fishes are an indicator of High quality streams but they may be impacted by bacteria and viruses. He also saw recreational swimming and wading in at least 1/2 of the sites. Nearby town, Rolla.			
8/26/2005	E-mail	Chenhong	316 Manter Hall, U of N	Lincoln	NE			Phelps	Little Dry Fork	1863	If streams are exempted from protection, it will not only affect people who will work in the streams but will change the fate of the fish in those waters. Li may sample stream in the future (topminnow research project			