

Use Attainability Analysis

for

WBID 3188 North Fork of the Spring River

Submitted by
Tetra Tech. Inc.

To

Missouri Department of Natural Resources
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

RECEIVED
 JUL 14 PM 2:45
 SAN PROTECTION PROGRAM

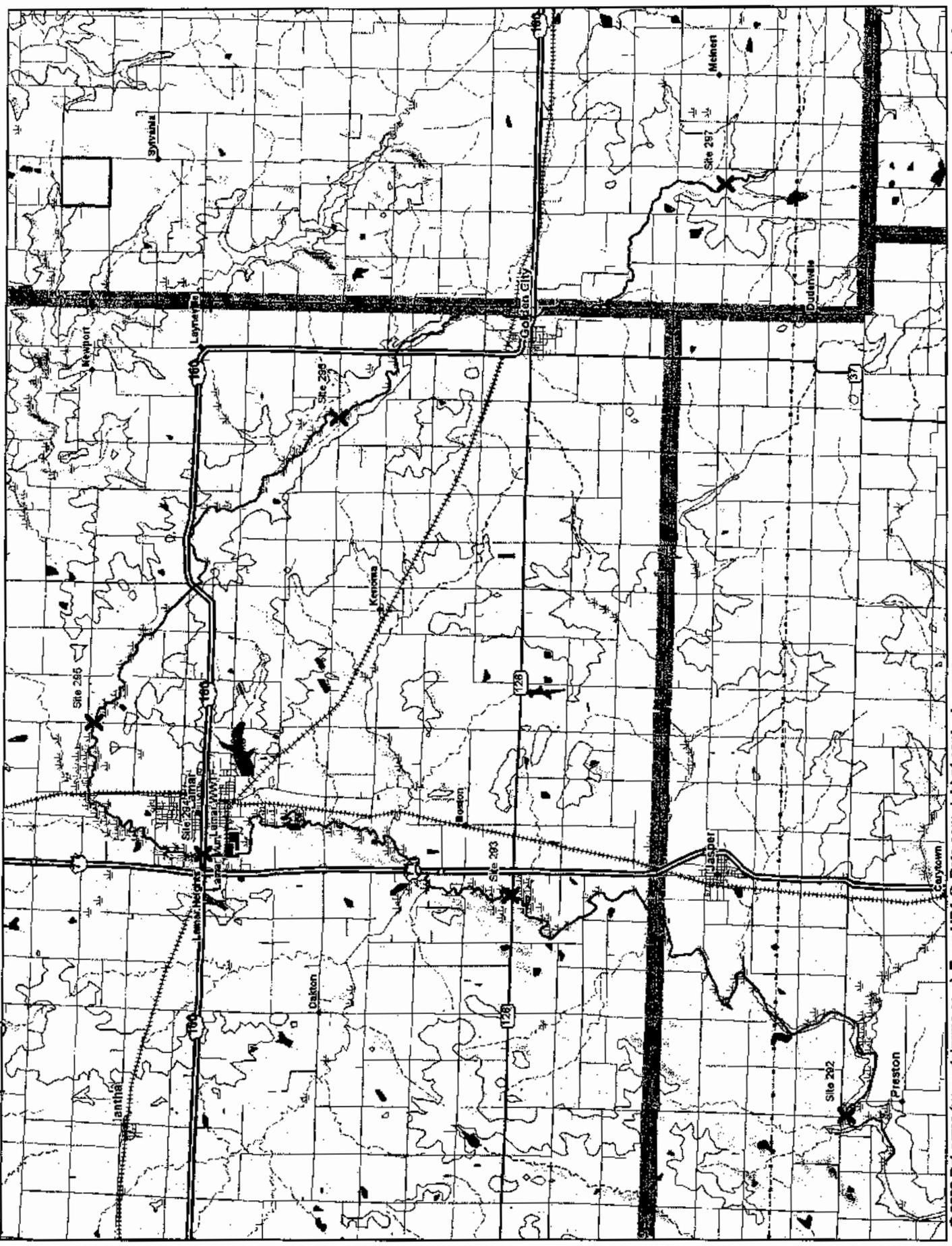
Water Body Name: (from USGS 7.5' quad)	N. FR. Spring R.
8-digit HUC:	11070207
Missouri WBID #:	3188
County:	Barton
Upstream Legal Description:	N/A
Downstream Legal Description:	N/A
Upstream Coordinates: (UGS 84, ddd.ddddd)	37. 33344° N - 91. 03415° W
Downstream Coordinates: (UGS 84, ddd.ddddd)	37. 29633° N - 91. 39504
Discharger Facility Name(s):	Golden City WWTF
Discharger Permit Number(s):	N/A
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	Tetra Tech, Inc DW, GB 410-356-0993
Organization:	Tetra Tech, Inc
Position:	Scientist

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

Signed: *James A. Ball* Date: *7/7/05*

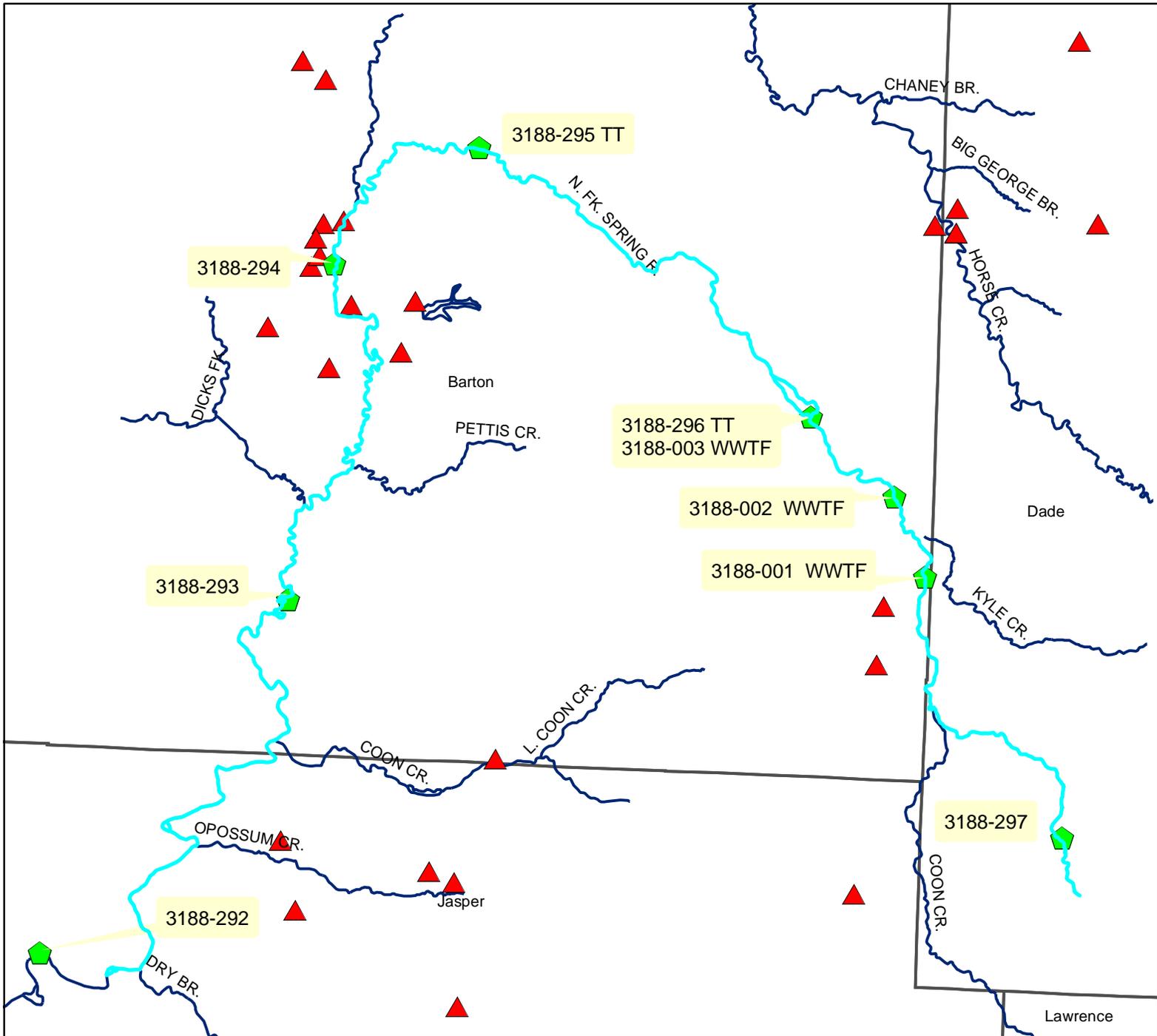
DW 7/7/05

N. Fk. Spring R.



© 2002 DeLorme (www.delorme.com). Topo USA ®. Data copyright of content owner.
Scale: 1 : 175,000 Map Rotation: 0° Magnetic Declination: 3.4°E

North Fork Spring River (C) #3188 Barton County

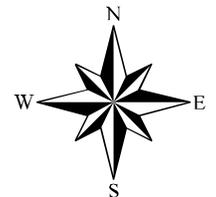


Legend

▲ Point Sources

— Classified Waterbodies

□ Counties



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

292

Missouri WBID #: 3188	Site Location Description: <i>Bridge @ CR 185</i>	
Site GPS Coordinates: <i>37.29633 N 94.39504 W</i>		
Date & Time: <i>7/7 1730</i>	Facility Name: <i>Golden City WWTF</i>	
Personnel: <i>DW GB</i>	Permit Number: <i>N/A</i>	
Current Weather Conditions: <i>Warm Dry</i>	Weather Conditions for Past 7 days: <i>Warm Dry</i>	
Photo Ids: Upstream: <i>142-6378</i>	Downstream: <i>141-6377</i>	Other: <i>(Trash) 143-6379</i>

Uses Observed*:

*(Trash) 144-6380 (Fire Pit) 146-6382
(Foot path) 145-6381*

<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.)

None

<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 checked="" type="checkbox"/> Roads <i>Access Road</i>	<input checked="" 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 checked="" type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input checked="" type="checkbox"/> Other: <i>Trash, (cigarette)</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)

*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.

Stream Morphology:

Upstream View Physical Dimensions:

292

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): 142 ^{Estimate}	Length (ft): 10	Avg. Depth (ft): >5	Max. Depth (ft): >5
<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):	Not measurable

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): 142 ^{Estimate}	Length (ft): 10	Avg. Depth (ft): >5	Max. Depth (ft): >5
<input type="checkbox"/> Pool	Width (ft): 142 7/7	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):	Not measurable

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

70 % Cobble	% Gravel	% Sand	% Silt	20 % Mud/Clay	10 % Bedrock
-------------	----------	--------	--------	---------------	--------------

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

Algae on Bottom (45%); Floating

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 type="checkbox"/> Fine sediments	<input checked="" 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.

*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.

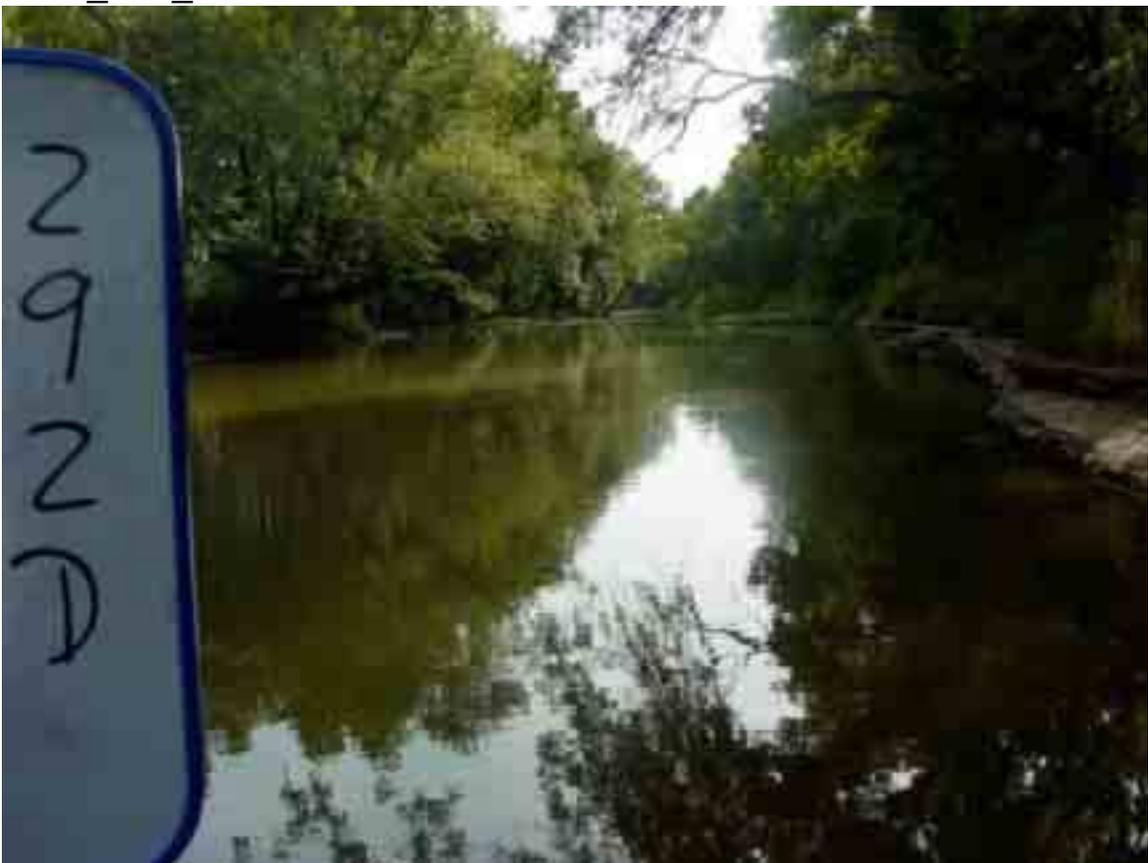
Signed: Janet Bell Date: 7/2/05
 Organization: TA, INC. Position: SCIENTIST

dw 7/7/05

3188_292_US



3188_292_DS



3188_292_firepit



3188_292_path



3188_292_trash



3188_292_trash



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

1293

Missouri WBID #: 3188	Site Location Description: Bridge @ Rt. 126	
Site GPS Coordinates: 37.39865 N 94.31036 W		
Date & Time: 7/7 1840	Facility Name: Golden City WWTF	
Personnel: GB, DW	Permit Number: N/A	
Current Weather Conditions: Warm, Dry	Weather Conditions for Past 7 days: Warm, Dry	
Photo Ids: Upstream: 152-6389	Downstream: 151-6388	Other: N/A

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: Heavy Brush	

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: Access Path through Brush (from vehicle), but veers away from Bridge				

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.

Stream Morphology: Downstream

Upstream View Physical Dimensions:

1293

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft): <u>40</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>2</u>	Max. Depth (ft): <u>3</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 checked="" type="checkbox"/> No	Estimated (ft ³ /sec): <u>Not measurable</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): <u>35</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>2.5</u>	Max. Depth (ft): <u>2.5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):		

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

% Cobble	% Gravel	% Sand	% Silt	<u>100</u> % Mud/Clay	% Bedrock
----------	----------	--------	--------	-----------------------	-----------

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

NONE

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: <u>B</u>
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>Brown</u>
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 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.

*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: Quentin Bull Date: 7/7/05

Organization: TH INC. Position: SCIENTIST

DW 7/7/05

3188_293_US



3188_293_DS



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

294

Missouri WBID #: 3188	Site Location Description: Bridge on R.160
Site GPS Coordinates: 37.49349 N 91.29295 W	
Date & Time: 1920 7/7	Facility Name: Golden City WWTF
Personnel: GB, DW	Permit Number: N/A
Current Weather Conditions: Warm, Dry	Weather Conditions for Past 7 days: Warm, Dry
Photo Ids: Upstream: 154-6391	Downstream: 153-6390 Other:

Uses Observed*:

155-6392 (Fireworks) 156-6393 (Fireworks) 157-6394 (Fireworks) 158-6395 Footprint

<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.)

None

<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 checked="" type="checkbox"/> Roads	<input checked="" 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: Fireworks				

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.

Stream Morphology:

Upstream View Physical Dimensions:

294

<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>17</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>1.5</u>	Max. Depth (ft): <u>1.75</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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>25</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>3.25</u>	Max. Depth (ft): <u>3.75</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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

<u>D</u>	% Cobble	<u>50</u>	% Gravel	<u>10</u>	% Sand	<u>90</u>	% Silt	<u>50</u>	% Mud/Clay	<u>90</u>	% Bedrock
----------	----------	-----------	----------	-----------	--------	-----------	--------	-----------	------------	-----------	-----------

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

NONE

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input checked="" type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other: <u>Brown</u> <u>7/7</u>
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: <u>Brown</u>
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 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.

*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: Quinn Bell Date: 7/7/05
 Organization: TF, INC. Position: SCREEN TEST

JB 7/12/05

3188_294_US



3188_294_DS



3188_294_footprint



3188_294_trash



3188_294_trash



3188_294_trash



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

295

Missouri WBID #: 3188	Site Location Description: Bridge on NE 20 St	
Site GPS Coordinates: 37.52667 N 94.24143 W		
Date & Time: 7/8 0724	Facility Name: Golden City WWTF	
Personnel: GB, DW	Permit Number: N/A	
Current Weather Conditions: Cool, Dry	Weather Conditions for Past 7 days: Warm, Dry	
Photo Ids: Upstream: 160-6597	Downstream: 157-6396	Other: N/A

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 type="checkbox"/> Other: Surrounding pasture land for cows	

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: Surrounding Pasture Land for Cows				

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.

Stream Morphology:

Upstream View Physical Dimensions:

1295

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>72</u>	Length (ft):	Avg. Depth (ft): <u>> 5</u>	Max. Depth (ft): <u>> 5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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>72</u>	Length (ft):	Avg. Depth (ft): <u>> 5</u>	Max. Depth (ft): <u>> 5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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

% Cobble	% Gravel	<u>20</u> % Sand	% Silt	<u>80</u> % Mud/Clay	% Bedrock
----------	----------	------------------	--------	----------------------	-----------

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

NONE

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>Brown</u>
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input checked="" 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.

*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: James Gull Date: 7/8/05
 Organization: TF EMC Position: SCIENTIST

DW 7/8/05

3188_295_US



3188_295_DS



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

296

Missouri WBID #: 3108	Site Location Description: Bridge on SE 30 St
Site GPS Coordinates: 37.45203 N 94.12355 W	
Date & Time: 0800 7/8	Facility Name: Golden City WWTF
Personnel: DW, GB	Permit Number: N/A
Current Weather Conditions: Warm, Dry	Weather Conditions for Past 7 days: Warm, Dry
Photo Ids: Upstream: 162-6399	Downstream: 161-6398
Other: N/A	

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: Dry Land & Thick Brush	

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)

*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.

Stream Morphology:

Upstream View Physical Dimensions:

296

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Run	Width (ft): <u>34</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>2.25</u>	Max. Depth (ft): <u>3.75</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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>33</u>	Length (ft): <u>10</u>	Avg. Depth (ft): <u>0.25</u>	Max. Depth (ft): <u>0.5</u>
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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

<u>20</u> % Cobble	<u>50</u> % Gravel	<u>10</u> % Sand	% Silt	<u>20</u> % Mud/Clay	% Bedrock
--------------------	--------------------	------------------	--------	----------------------	-----------

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

<u>D: 90% Aquatic Vegetation (Downstream Side)</u>
<u>V: 15% Aquatic Veg.</u>

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>Brown</u>
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	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

19 Upstream Side & Downstream

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: Janet Bell Date: 7/8/05

Organization: TR, INC. Position: GRUNTER

DW 7/8/05

3188_296_US



3188_296_DS



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 #: 3188	Site Location Description: 297 Bridge crossing at Rt. K.	
Site GPS Coordinates: 37.73344 N 94.03415 W		
Date & Time: 7/7 1805	Facility Name: Golden City WWTF	
Personnel: GB, DW	Permit Number: N/A	
Current Weather Conditions: Warm Dry	Weather Conditions for Past 7 days: Warm Dry	
Photo Ids: Upstream: 147-6383 (Fence) 148-6384	Downstream: 149-6385 (Fence) 150-6386	Other: N/A

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 checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: Fields, (Hay Fields) Pasture for Cows,	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input checked="" 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)

*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.

Stream Morphology:

Upstream View Physical Dimensions:

297

<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>10</u>	Avg. Depth (ft): <u>1</u>	Max. Depth (ft): <u>1.75</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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>5</u>	Length (ft):	Avg. Depth (ft): <u>0.25</u>	Max. Depth (ft): <u>0.25</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Estimated (ft ³ /sec):	

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

<u>20</u> % Cobble	<u>70</u> % Gravel	% Sand	% Silt	% Mud/Clay	<u>10</u> % Bedrock
					<u>100</u>

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

40% 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 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.

*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: Gareth Bull Date: 7/7/05

Organization: TF, INC. Position: SCIENTIST

DW 7/7/05

3188_297_US



3188_297_DS



3188_297_fence



3188_297_fence



North Fork Spring River, WBID 3188

Jasper and Dade Counties

Public comments received in 2005 on Whole Body Contact Recreation Use/ Use Attainability Analyses issue.

6/14/2005	6/16/2005	Loyd and Beverly	Clements	745 w. 60th Rd	Lamar	MO	64759	471-682-2866	Barton	North Fork Spring River	3188	Children play in the water. They are concerned that Lamar dumps wastewater into the creek.
7/8/2005	7/11/2005	Betty	O'Sullivan	5 Northridge Drive	Lamar	MO	64759	N/A	Barton	North Fork Spring River	3188	Do not exempt, this river floods and could contaminate ground.
7/8/2005	7/11/2005	Richard	Kaderly	903 West 10th St.	Lamar	MO	64759	417-682-3593	Barton	North Fork Spring River	3188	He is concerned about contaminated flood waters on his 76 acres. His home was flooded in 1993. Concerned about contamination of wildlife they hunt and eat. Their Children and grandchildren fish and do other recreation on the stream. Wildlife and livestock use stream. Concerned about contaminated flood waters around his home. Wants N. Fork of the Spring river to be WBCR.
7/8/2005	7/11/2005	Tom	Thieman	304 Gulf St.	Lamar	MO	64759		Barton	North Fork Spring River	3188	Their Children and grandchildren fish and do other recreation on the stream. Wildlife and livestock use stream. Concerned about contaminated flood waters around his home. Wants N. Fork of the Spring river to be WBCR.
7/8/2005	7/11/2005	Betty	Thieman	304 Gulf St.	Lamar	MO	64759		Barton	North Fork Spring River	3188	Their Children and grandchildren fish and do other recreation on the stream. Wildlife and livestock use stream. Concerned about contaminated flood waters around his home. Wants N. Fork of the Spring river to be WBCR.
7/9/2005	7/11/2005	Maria	O'Sullivan	7 Northbridge Dr.	Lamar	MO	64759	417-682-5679	Barton	North Fork Spring River	3188	Her children and other children fish and recreate on the river. She is concerned that flood waters standing on her 120 acres bordering the stream will be contaminated.
7/12/2005	e-mail	Jenny	Tucker	202 West 2nd Street	N/A	N/A	N/A	N/A	Barton	North Fork Spring River	3188	Her children swim in the creek.
7/12/2005	7/12/2005	Dr. Ted and Carol	Reavley	804 Golf	Lamar	MO	64759	417-682-3393	Barton	North Fork Spring River	3188	Use for fishing and other recreation. Is concerned about quality of water if it floods if "exemption" is granted.
7/13/2005	7/15/2005	Jenny	Tucker	202 West 2nd Street	Lamar	MO	64759	N/A	Barton	North Fork Spring River	3188	Her children fish and play in the floodwaters. Please do not exempt.

7/1/2005	7/5/2005	Kaity	Clements	55 SW 60th Rd.	Lamer	MO	64759	417-682-3199	Barton	N Frk Spring Riv	3188	Family & neighbors use river for recreation (hunting, floating, fishing wading, trapping). Please include the river in the Clean Water Act.
8/26/2005	E-mail	Brad	Jackson	401 North Advent	Appleton City	MO	64724			N Frk Spring Riv		"I desperately urge you to not allow any Mo Streams to be exempt form protection."
7/5/2005	7/7/2005	Travis and Lisa	Roby	402 Walnut St	Golden City	MO	64748	NA	Barton	N Frk Spring Riv	3188	Camp, swim, fish, play and hunt in campgrounds on river.
7/11/2005	no Post Mark	Ronald G.	McClellan	20540 Pine Road	Jasper	MO	64755		Barton	N Frk Spring Riv	3188	Does not want it exempt from WQ rules; wants details
7/7/2005	7/11/2005	Ronald G.	McClellan	20540 Pine Road	Jasper	MO	64755		Barton	N Frk Spring Riv	3188	"It has come to my attention that the "Clean Water Commission" may exempt the N Fk Spring River." Wants details so that he can comment.
FAX	7/8/2005	Courtney	Gardner	400 Reavley Dr.	Lamar	MO	64759	417-682-3908	Barton	N Frk Spring Riv	3188	River overflows into lake she lives on in high flow. Uses lake to swim, boat, jet ski and fish. Do not let commercial interests sway DNR decision to NOT protect river.
6/23/2005	6/27/2005	Todd	Null	P.O. Box 174	Lamar	MO	64759	N/A	Barton	N Frk Spring Riv	3188	Hunt, fish, swim and wade in river. Is unhappy that we aren't properly protecting this and all rivers and streams.

This Word document created by Donna Menown, 3/28/08.