

Use Attainability Analysis

for

WBID 2063 Little Bourbeuse River

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

| | |
|--|--|
| Water Body Name (from USGS 7.5' quad): | Little Bourbeuse River |
| 8-digit HUC: | 07140103 |
| Missouri WBID #: | 2063 |
| County: | Crawford |
| Upstream Legal Description: | Northern Border of NE 1/4, Sec. 3 T39N R4W |
| Downstream Legal Description: | SE 1/4, NW 1/4, Sec. 35 T40N R4W |
| Upstream Coordinates: | UTM 38.15112 91.33893 |
| Downstream Coordinates: | UTM 38.15935 91.34336 |
| Discharger Facility Name(s): | |
| Discharger Permit Number(s): | |
| Number of Sites Evaluated: | 2 |
| Name of Surveyor and Telephone Number: | Tucker Fredrickson (573) 526-4210 |
| Organization: | MDNR |
| Position: | Environmental Specialist |

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

Signed: Tucker Fredrickson Date: 7/1/05

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

16.1

| | |
|---|---|
| Missouri WBID #: 2063-01 | Site Location Description: Low water bridge crossing Libhart Road |
| Site GPS Coordinates: 38.15112 91.33893 | |
| Date & Time: 6/21/05 11:20 | Facility Name: Little Bourbeuse River |
| Personnel: Tucker Fredrickson | Permit Number: H Temp. Range 80-84°F |
| Current Weather Conditions: Sunny 85°F | Weather Conditions for Past 7 days: No rainfall |
| Photo Ids: Upstream: 06 Downstream: 05 Other: 07 - ATV Tracks | |

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 checked="" type="checkbox"/> Other: NA | |

Evidence of Human Use*:

| | | | | |
|--------------------------------------|---|--|---|---|
| <input type="checkbox"/> Roads | <input checked="" type="checkbox"/> Foot paths (prints) | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input checked="" 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:

| | | | | |
|--|------------------------------|--|--|-----------------------------|
| <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>12</u> | Length (ft): <u>15</u> | Avg. Depth (ft): 2 <u>1.5</u> | Max. Depth (ft): <u>2.5</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>22</u> | Length (ft): <u>12</u> | Avg. Depth (ft): <u>2.5</u> | Max. Depth (ft): <u>4</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>40</u> % Cobble | <u>40</u> % Gravel | <u>20</u> % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|------------------|--------|------------|-----------|

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

10% substrate coverage

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input 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.

fish observed: 2" to 6" tadpoles

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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: Jochen Friedrichs

Date: 6/21/05

Organization: MDNR

Position: Environmental Specialist

2063_001_US



2063_001_DS



2063_001_ATV Tracks



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 #: 2063-02 | Site Location Description: Property of R. Hedges |
| Site GPS Coordinates: 38.15935 91.34336 | East of Argo Road |
| Date & Time: 6/21/05 11:50 | Facility Name: Little Bourbeuse River |
| Personnel: Tucker Fredrickson | Permit Number: H Temp. Range 80-89°F |
| Current Weather Conditions: Sunny 85°F | Weather Conditions for Past 7 days: NO rainfall |
| Photo Ids: Upstream: 09 08 | Downstream: 08 Other: |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input checked="" type="checkbox"/> Other: Private Property | |

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: NA | | | | |

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:

| | | | | |
|--|---|-----------------------------------|------------------------------|-----------------------------|
| <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>20</u> | Length (ft): <u>200</u> | Avg. Depth (ft): <u>0.75</u> | Max. Depth (ft): <u>1.5</u> |
| <input 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 (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>30</u> | Length (ft): <u>180</u> | Avg. Depth (ft): <u>2.0</u> | Max. Depth (ft): <u>3.0</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>60</u> % Cobble | <u>30</u> % Gravel | <u>10</u> % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|------------------|--------|------------|-----------|

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

75% substrate cover - periphyton

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input checked="" type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input type="checkbox"/> None | <input type="checkbox"/> Other: |

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

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Signed: Jucker Fredrickson Date: 6/21/05

Organization: MDNR Position: Environmental Specialist

2063_002_US



2063_002_DS

