

Use Attainability Analysis

for

WBID 2401 Fortune Branch

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: July 25, 2005

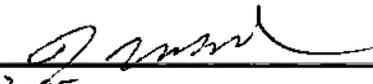
**Field Data Sheets for Recreational Use Stream Surveys**

2005 JUL 26 AM 7:31  
WATER PROTECTION PROGRAM

**Data Sheet A - Water Body Identification**

|  |
|--|
| Water Body Name (from USGS 7.5' quad): Fortune Branch                            |
| 8-digit HUC: 11010002  |
| Missouri WBID #: 2401  |
| County: Barry  |
| Upstream Legal Description: 9,23N26W   |
| Downstream Legal Description: <del>13,22N,26W</del> 14, 23N, 26W <sup>ap</sup>   |
| Upstream Coordinates: 434035E 4063895N   |
| Downstream Coordinates: 436635E 4062955N   |
| Discharger Facility Name(s):   |
| Discharger Permit Number(s):   |
| Number of Sites Evaluated: 3   |
| Name of Surveyor and Telephone Number: Jeff Woodward Gene Campbell (417)888-4029 |
| Organization: DNR SWCP   |
| Position: Soil Scientist III   |

**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: \_\_\_\_\_  
6-22-05

## 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 #: 2401-01                | Site Location Description: CR 2145 Creek Crossing |                   |
| Site GPS Coordinates: 434035E 4063895N  |   |                   |
| Date & Time: 6-22-05 9:15AM             | Facility Name:                                    |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:                                    |                   |
| Current Weather Conditions: Sunny & Dry | Weather Conditions for Past 7 days: Hot and dry   |                   |
| Photo Ids: Upstream: wbu2401-01         | Downstream: wbd2401-01                            | Other: wbe2401-01 |

#### 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 checked="" 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 checked="" type="checkbox"/> Other: Gravel Mining |  |  |   |  |

#### 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.

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

Page Two – WBID #2401-01:

**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 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 <sup>3</sup> /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 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 <sup>3</sup> /sec): |                  |

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

|            |            |        |        |            |           |
|------------|------------|--------|--------|------------|-----------|
| 10% Cobble | 90% Gravel | % Sand | % Silt | % 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: Dry |
| 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.  
New Bridge.

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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: 6-22-05

Organization: MODNR-SWCP Position: Soil Scientist III

WBID 2401 – Downstream #1



WBID 2401 – Upstream #1



## 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 #: 2401-02                | Site Location Description: CR 2145 Creek Crossing |                   |
| Site GPS Coordinates: 434835E 4063475N  |   |                   |
| Date & Time: 6-22-05 9:25AM             | Facility Name:                                    |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:                                    |                   |
| Current Weather Conditions: Sunny & Dry | Weather Conditions for Past 7 days: Hot and dry   |                   |
| Photo Ids: Upstream: wbu2401-02         | Downstream: wbd2401-02                            | Other: wbe2401-02 |

#### 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: none |   |

#### 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:      |  |  |   |  |

#### 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.

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

Page Two – WBID #2401-02:

**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 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 <sup>3</sup> /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 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 <sup>3</sup> /sec): |                  |

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

|            |            |        |        |            |           |
|------------|------------|--------|--------|------------|-----------|
| 10% Cobble | 90% Gravel | % Sand | % Silt | % 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: Dry |
| 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.

Low Water Crossing

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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: 6-22-05

Organization: MODNR - SWCP Position: Soil Scientist III

WBID 2401 – Downstream #2



WBID 2401 – Upstream #2



## 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 #: 2401-03                | Site Location Description: CR 2155 Creek Crossing |                   |
| Site GPS Coordinates: 436635E 4062955N  |   |                   |
| Date & Time: 6-22-05 9:30AM             | Facility Name:                                    |                   |
| Personnel: Jeff Woodward Gene Campbell  | Permit Number:                                    |                   |
| Current Weather Conditions: Sunny & Dry | Weather Conditions for Past 7 days: Hot and dry   |                   |
| Photo Ids: Upstream: wbu2401-03         | Downstream: wbd2401-03                            | Other: wbe2401-03 |

#### 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 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 checked="" 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)

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**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

Page Two – WBID #2401-03:

**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 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 <sup>3</sup> /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): 40 | Length (ft): 8  | Avg. Depth (ft): 2                | Max. Depth (ft): 3 |
| <input checked="" type="checkbox"/> Flow | Present?       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                    |

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

|            |            |        |        |            |           |
|------------|------------|--------|--------|------------|-----------|
| 20% Cobble | 80% Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|------------|------------|--------|--------|------------|-----------|

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

Algae on rocks

**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.  
Minnows, Bluegill and Crawdads in pool

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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: 6-22-05  
 Organization: MO DNR - SW CP Position: Soil Scientist III

WBID 2401 – Downstream #3



WBID 2401 – Upstream #3



Fortune Br. (WB2401)  
Barry County, Missouri

