

Use Attainability Analysis

for

WBID 1454 Davis Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources
Water Protection Program

Date Received: July 19, 2005

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

| | |
|----------------------------------------|------------------------------|
| Water Body Name (from USGS 7.5' quad): | 10290107 Davis Cr |
| 8-digit HUC: | 10290107 |
| Missouri WBID #: | 1454 |
| County: | Polk |
| Upstream Legal Description: | |
| Downstream Legal Description: | |
| Upstream Coordinates: | 0465950 4174455 |
| Downstream Coordinates: | |
| Discharger Facility Name(s): | |
| Discharger Permit Number(s): | |
| Number of Sites Evaluated: | 2 |
| Name of Surveyor and Telephone Number: | R. Henderson 417 885 4028 |
| Organization: | DNR |
| Position: | SS4 |

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

Signed: R. Henderson Date: 6/27/05

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 #: 1454-1 | Site Location Description: | |
| Site GPS Coordinates: 0465950, 4174455 | 370th | |
| Date & Time: 6/27/05 | Facility Name: | |
| Personnel: Henderson | Permit Number: | |
| Current Weather Conditions: clear | Weather Conditions for Past 7 days: clear | |
| Photo Ids: Upstream: WB01354-1 | Downstream: WB01354-1 | 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.)

newish Bridge

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 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.

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID # 2454-1

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|---------------------------------------------------|---------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>5</u> | Length (ft): <u>20</u> | Avg. Depth (ft): <u>1/3</u> | Max. Depth (ft): <u>1/2</u> |
| <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 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>45</u> | Avg. Depth (ft): <u>1</u> | Max. Depth (ft): <u>1</u> |
| <input checked="" 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>20</u> % Cobble | <u>30</u> % Gravel | % Sand | % Silt | % Mud/Clay | <u>50</u> % Bedrock |
|--------------------|--------------------|--------|--------|------------|---------------------|

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

| | | | | | |
|----------------------------|--|--|--|--|--|
| <u>watercress / willow</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 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: RTR Hecker Date: 6/27/05
 Organization: DWR Position: SS4

WBID 1454 Davis Creek

Photo # 1454 –Downstream #1



Photo # 1454 –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 #: <u>1454-2</u> | Site Location Description: | |
| Site GPS Coordinates: <u>046.3954, 4176140</u> | <u>120 ft</u> | |
| Date & Time: <u>6/27/05</u> | Facility Name: | |
| Personnel: <u>Heddergen</u> | Permit Number: | |
| Current Weather Conditions: <u>clear</u> | Weather Conditions for Past 7 days: <u>clear</u> | |
| Photo Ids: Upstream: <u>WB01454-2</u> | Downstream: <u>WB01454-2</u> | 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.)

Smartweed

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 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)

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Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

Page Two - WBID # 1454-2

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|---------------------------------------------------|---------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------------|
| <input checked="" type="checkbox"/> Riffle | Width (ft): <u>5</u> | Length (ft): <u>30</u> | Avg. Depth (ft): <u>1/3</u> | Max. Depth (ft): <u>1/3</u> |
| <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 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>35</u> | Length (ft): <u>50</u> | Avg. Depth (ft): <u>1 1/2</u> | Max. Depth (ft): <u>2</u> |
| <input checked="" 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>20</u> % Cobble | <u>80</u> % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|--------|--------|------------|-----------|

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

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.

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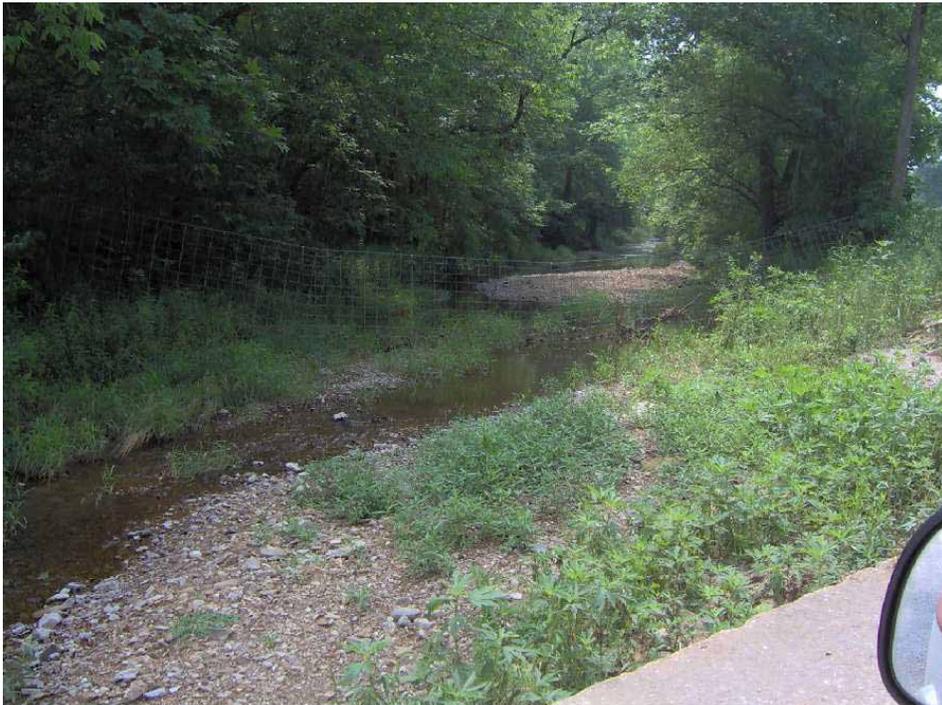
Signed: R. L. Hecker Date: 6/27/05

Organization: DNR Position: SSY

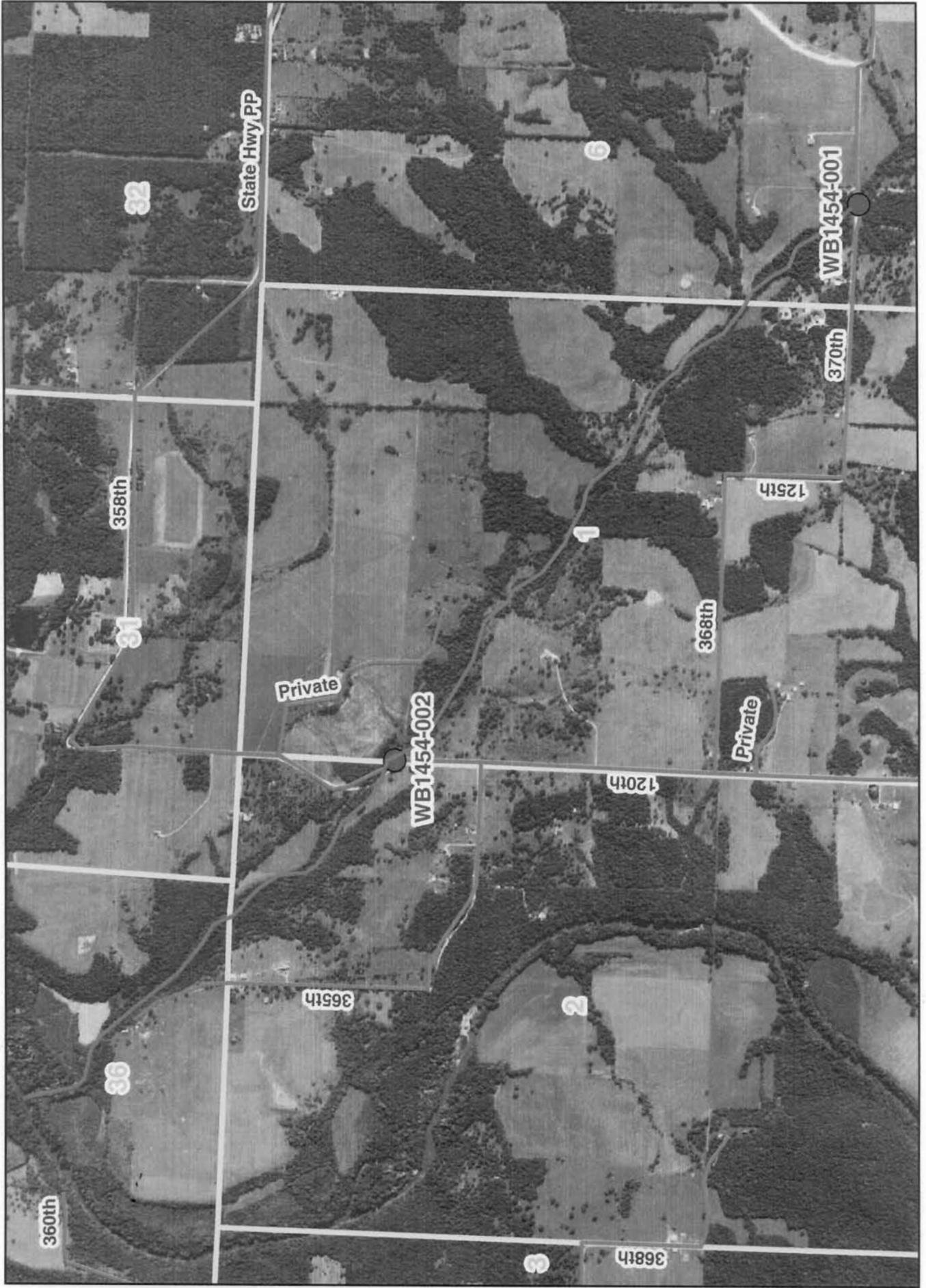
Photo # 1454 –Downstream #2



Photo # 1454 –Upstream #2



Davis Cr. 1454
Polk County, Missouri



WBID1454 -Upstream #1b

