



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0500 Tributary to West Fork Lost Creek 2

Submitted by
BWR

to

Missouri Department of Natural Resources
Water Protection Program

Date received: June 1, 2007

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

| | |
|---|-----------------------|
| Water Body Name (from USGS 7.5' quad): <u>Trib. to West Fork Lost Creek 2</u> | |
| Missouri Water Body Identification (WBID) Number: <u>500</u> | |
| 8-digit HUC: <u>10280101</u> | County: <u>DeKalb</u> |
| Upstream Legal Description (from Table H): <u>1.7 meter wide; 20m off of Bridge crossing on Lakeside Rd</u> | |
| Downstream Legal Description (from Table H): <u>4.2m wide; 10m off of Bridge crossing on Railroad Rd</u> | |
| Number of sites evaluated <u>3</u> | |
| List all sites numbers, listed consequently upstream to downstream: <u>Site 1 - upstream on Lakeside Rd</u> <u>Site 2 - midsection on Water Rd 1/4 mile south of Maysville</u> <u>Site 3 - downstream on Railroad Rd</u> <u>Mouth</u> | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

II. Subsegmentation (fill this section out only in cases where subsegmentation is being proposed)

| LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) | | | |
|---|------------------------------------|--|--|
| Upstream Coordinates: UTM X <u>39.87436</u> Y <u>094.37641</u> | | Downstream Coordinates: UTM X <u>39.87442</u> Y <u>094.41649</u> | |
| HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) | | | |
| Global Positioning System (GPS) | | Interpolation | |
| Static Mode | | Topographic Map or DRG | |
| Dynamic Mode (Kinematic) | | Aerial Photograph or DOQQ | |
| Precise Positioning Service | | Satellite Imagery | |
| Signal Averaging | | Interpolation Other | |
| Real Time Differential Processing | | | |
| HORIZONTAL ACCURACY ESTIMATE | | | |
| GPS Data Quality | | Interpolation Data Quality | |
| FOM | ± _____ Meters | Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters | |
| EPE | ± <u>15</u> Feet or ± _____ Meters | | |
| PDOP | | | |

III. Discharger Facility Information (list all permitted dischargers on the stream)

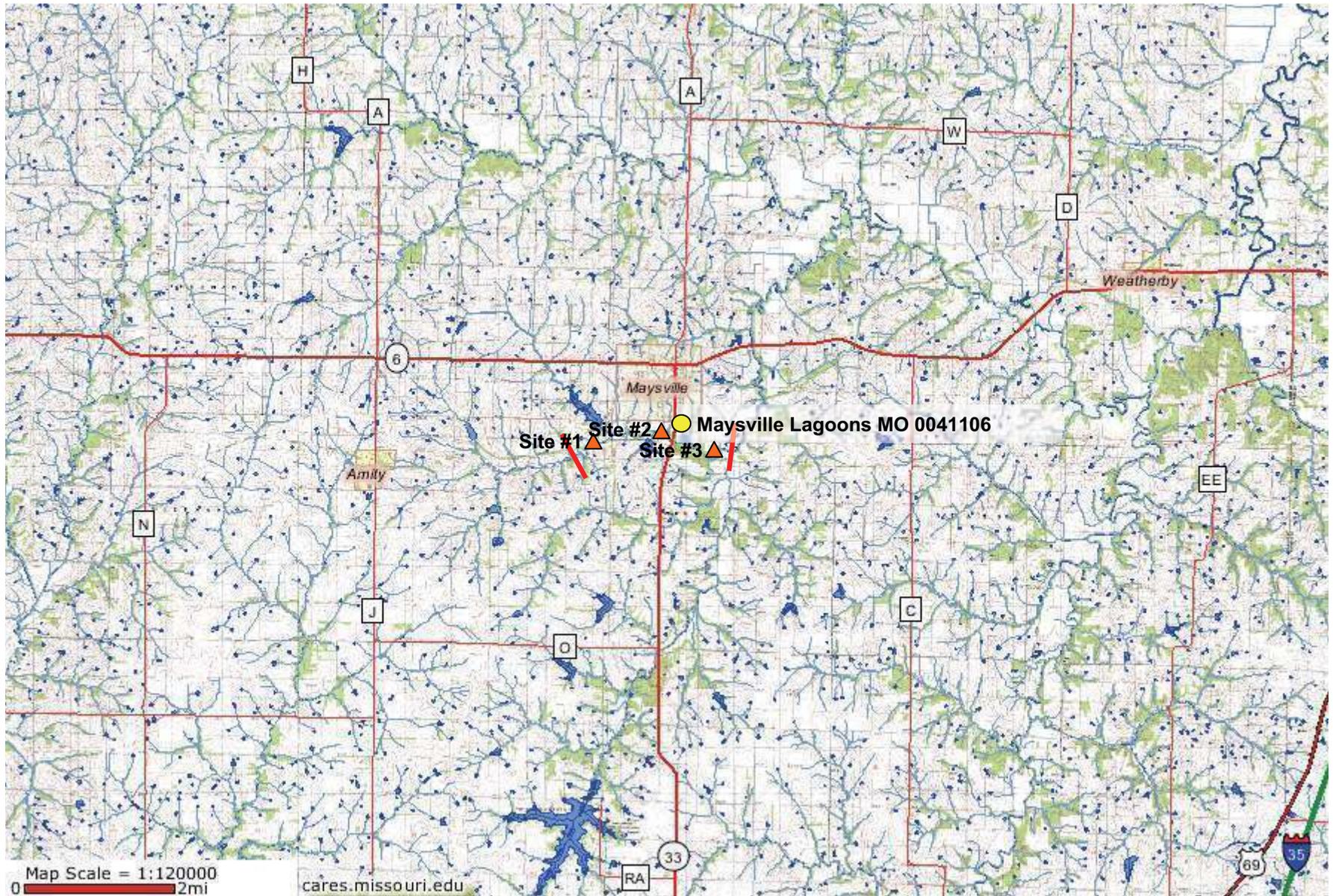
| |
|--|
| Discharger Facility Name(s): <u>Maysville Lagoon</u> |
| Discharger Permit Number(s): <u>MO0041106</u> |

IV. UAA Surveyor (please print legibly)

| | |
|---|-------------------|
| Name of Surveyor: <u>Ryan M. Lent</u> | Telephone Number: |
| Organization/Employer: <u>Seagulls Environmental Technologies</u> | |
| Position: <u>Environmental Scientist</u> | |

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed: Ryan M. Lent Date: 05-15-07



Tributary to West Fork Lost Creek 2
WBID #500



WBID# 500
 Site# 1

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

| | |
|--|--|
| Date & Time: <u>05-15-07 10:00 a.m.</u> | Site Location Description (e.g., road crossing): <u>Bridge crossing ON Lakeside Rd.</u> |
| Personnel (Data Collectors): <u>William Wells & Ryan Lunt</u> | <u>Transect A 50 m from Bridge Crossing</u> |
| Current Weather Conditions: <u>Cloudy 60-65°F</u> | Facility Name: <u>Maysville Lagoon</u> |
| Weather Conditions for Past 10 days: <u>Sunny/Heavy Rain/slight rain</u> | Permit Number: <u>MD 0041106</u> |
| Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/> | |

Site Locations:

| | |
|---|--|
| LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) | |
| Site GPS Coordinates: UTM X: <u>N39.87436</u> W <u>094.3764</u> Y: <u>W094.3764</u> N <u>39.87436</u> | |
| HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) | |
| Global Positioning System (GPS) | Interpolation |
| Static Mode | Topographic Map or DRG |
| Dynamic Mode (Kinematic) | Aerial Photograph or DOQQ |
| Precise Positioning Service | Satellite Imagery |
| Signal Averaging | Interpolation Other |
| Real Time Differential Processing | |
| HORIZONTAL ACCURACY ESTIMATE | |
| GPS Data Quality | Interpolation Data Quality |
| FOM ± _____ Meters | Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters |
| EPE ± _____ Feet or ± _____ Meters | |
| PDOP | |

Photos:

| Upstream Photos | | Downstream Photos | | Other Photos | |
|-----------------|--------------------------------------|-------------------|---------------------------------------|----------------|--|
| Photo ID# | Photo Purpose | Photo ID# | Photo Purpose | Photo ID# | Photo Purpose |
| <u>500-6</u> | <u>Capture the sun between the k</u> | <u>500-5</u> | <u>Capture Pool, riffle & run</u> | <u>500-1-4</u> | <u>360 degree of transect A: up stream, Ret, Downstream Lt</u> |

Uses Observed*: (Uses actually observed at time of survey.)

| | | | | |
|---|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.) | | | | |

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

| | | | | |
|--|--------------------------------------|---|--|--|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the above | <input checked="" type="checkbox"/> Other: |
| Comments: <u>Maysville County Lake is 50 meters upstream's. The County Lake influences how much water is in Trib. West Lost Creek 2.</u> | | | | |

Indications of Human Use*: (attach photos)

| | | | | | |
|---|--|--|---|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Rope swings | <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"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Other: | |
| Comments: <u>The road Lakeside Road runs through part of the stream</u> | | | | | |

* Page Two – Data Sheet B for WBID # 500 : Site #11
 Stream Morphology:

70% run
 30% pool

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features: ~~J-K~~ J-K

100%

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|-----------------|--------------------------|-----------|------------|------------------|----------------|
| RIFFLE | | | | | |
| RUN | 150 m | 4.20 m | 15 m | 0.14 | 0.18 |
| POOL | | | | | |

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No Pool

Select one of the following channel features: ~~A Transition~~ ~~B-A~~ A Transition

2%
 45%
 53%

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|-----------------|--------------------------|-----------|------------|------------------|----------------|
| RIFFLE | | | | | |
| RUN | | | | | |
| POOL | 15 m | 2.6 | 15 m | 0.40 | 0.41 |

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

| | | | | | | | |
|----------|----------|--------|----|--------|----|------------|-----------|
| % Cobble | % Gravel | % Sand | 70 | % Silt | 0% | % Mud/Clay | % Bedrock |
|----------|----------|--------|----|--------|----|------------|-----------|

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

limited aquatic vegetation; no algal growth; waxy debris & detritus
 most vegetation on banks & slopes in water column in water column

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 type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input checked="" type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input 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 any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Ryan M. Hunt Date of Survey: 05-15-07

Organization: Seagull Environmental Tech Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

TRANSECT: 15 METERS

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|------------------------------|---------------------------|-------|------|---------------|--------------|
| Transsect A ↑ 1.7 ↓ | 0.30 | 0.12 | | 1 | |
| | 0.47 | 0.14 | | 2 | |
| | 0.64 | 0.17 | | 3 | |
| | 0.81 | 0.21 | | 4 | |
| | 0.98 | 0.23 | | 5 | |
| | 1.15 | 0.24 | | 6 | |
| | 1.32 | 0.23 | | 7 | |
| | 1.49 | 0.20 | | 8 | |
| | 1.63 | 0.19 | | 9 | |
| | 1.80 | 0.1 | | 10 | |
| Transsect B ↓ 0.6 ↓ | 0.20 | 0.19 | | 11 | |
| | 0.46 | 0.23 | | 12 | |
| | 0.72 | 0.31 | | 13 | |
| | 0.98 | 0.35 | | 14 | |
| | 1.24 | 0.40 | | 15 | |
| | 1.50 | 0.40 | | 16 | |
| | 1.76 | 0.41 | | 17 | |
| | 2.02 | 0.41 | | 18 | |
| | 2.28 | 0.40 | | 19 | |
| | 2.54 | 0.12 | | 20 | |
| Transsect C ↓ 2.5 ↓ | 0.25 | 0.1 | | 21 | |
| | 0.50 | 0.14 | | 22 | |
| | 0.75 | 0.14 | | 23 | |
| | 1.0 | 0.12 | | 24 | |
| | 1.25 | 0.11 | | 25 | |
| | 1.50 | 0.11 | | 26 | |
| | 1.75 | 0.15 | | . | |
| | 2.00 | 0.13 | | . | |
| | 2.25 | 0.13 | | . | |
| | 2.50 | 0.1 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Hunt

Date: 05-15-07

Organization: Seagull Environmental Technologies

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transsect D 1.5'/.10 1.5m ↓ | .15 | 0.1 | | 1 | |
| | .30 | 0.19 | | 2 | |
| | .45 | 0.23 | | 3 | |
| | .60 | 0.21 | | 4 | |
| | .75 | 0.22 | | 5 | |
| | .90 | 0.3 | | 6 | |
| | 1.05 | 0.2 | | 7 | |
| | 1.20 | 0.25 | | 8 | |
| | 1.35 | 0.21 | | 9 | |
| | 1.50 | 0.10 | | 10 | |
| Transsect E 1.6'/.10 1.4m ↓ | 0.46 | 0.18 | | 11 | |
| | 0.92 | 0.23 | | 12 | |
| | 1.38 | 0.19 | | 13 | |
| | 1.84 | 0.19 | | 14 | |
| | 2.30 | 0.24 | | 15 | |
| | 2.76 | 0.20 | | 16 | |
| | 3.22 | 0.18 | | 17 | |
| | 3.68 | 0.20 | | 18 | |
| | 4.14 | 0.21 | | 19 | |
| | 4.60 | 0.01 | | 20 | |
| Transsect F 4.8'/.10 4.8m ↓ | 0.48 | 0.18 | | 21 | |
| | 0.96 | 0.20 | | 22 | |
| | 1.44 | 0.22 | | 23 | |
| | 1.92 | 0.23 | | 24 | |
| | 2.40 | 0.27 | | 25 | |
| | 2.88 | 0.39 | | 26 | |
| | 3.36 | 0.51 | | . | |
| | 3.74 | 0.55 | | . | |
| | 4.22 | 0.22 | | . | |
| | 4.80 | 0.02 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Hunt

Date: 05-15-07

Organization: Seagull Environmental Technologies

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|-------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transect G 51% / 10 1.51 ↓ | 0.50 | 0.10 | | 1 | |
| | 1.02 | 0.25 | | 2 | |
| | 1.53 | 0.31 | | 3 | |
| | 2.04 | 0.37 | | 4 | |
| | 2.55 | 0.38 | | 5 | |
| | 3.06 | 0.33 | | 6 | |
| | 3.57 | 0.31 | | 7 | |
| | 4.08 | 0.29 | | 8 | |
| | 4.59 | 0.31 | | 9 | |
| | 5.10 | 0.05 | | 10 | |
| Transect H 37% / 10 0.37 ↓ | 0.37 | 0.20 | | 11 | |
| | 0.74 | 0.30 | | 12 | |
| | 1.11 | 0.32 | | 13 | |
| | 1.48 | 0.33 | | 14 | |
| | 1.85 | 0.34 | | 15 | |
| | 2.22 | 0.32 | | 16 | |
| | 2.59 | 0.30 | | 17 | |
| | 2.96 | 0.28 | | 18 | |
| | 3.33 | 0.15 | | 19 | |
| | 3.70 | 0.01 | | 20 | |
| Transect I 45% / 10 0.45 ↓ | 1.45 | 0.24 | | 21 | |
| | 1.90 | 0.32 | | 22 | |
| | 1.35 | 0.30 | | 23 | |
| | 1.80 | 0.25 | | 24 | |
| | 2.25 | 0.24 | | 25 | |
| | 2.70 | 0.23 | | 26 | |
| | 3.15 | 0.24 | | . | |
| | 3.60 | 0.30 | | . | |
| | 4.05 | 0.25 | | . | |
| | 4.50 | 0.09 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Hunt Date: 05-15-07

Organization: Seagull Environmental Technologies Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

Transsect J
 4.6% 10
 4.6
 ↓
 Transsect K
 4.2% 10
 4.2

| Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|---------------------------|-------|------|---------------|--------------|
| 0.46 | 0.23 | | 1 | |
| 0.92 | 0.30 | | 2 | |
| 1.38 | 0.31 | | 3 | |
| 1.82 | 0.29 | | 4 | |
| 2.28 | 0.45 | | 5 | |
| 2.74 | 0.39 | | 6 | |
| 3.20 | 0.33 | | 7 | |
| 3.66 | 0.21 | | 8 | |
| 4.12 | 0.13 | | 9 | |
| 4.58 | 0.02 | | 10 | |
| 4.2 | 0.08 | | 11 | |
| 1.84 | 0.1 | | 12 | |
| 1.26 | 0.13 | | 13 | |
| 1.68 | 0.14 | | 14 | |
| 2.10 | 0.18 | | 15 | |
| 2.52 | 0.11 | | 16 | |
| 2.94 | 0.03 | | 17 | |
| 3.36 | 0.03 | | 18 | |
| 3.78 | 0.05 | | 19 | |
| 4.20 | 0.01 | | 20 | |
| | | | 21 | |
| | | | 22 | |
| | | | 23 | |
| | | | 24 | |
| | | | 25 | |
| | | | 26 | |
| | | | . | |
| | | | . | |
| | | | . | |
| | | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Jurt

Date: 05-15-07

Organization: SETE

Position: Environmental Scientist

WBID# 500
 Site# 2

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

| | |
|--|---|
| Date & Time: <u>05-15-07 12:50</u> | Site Location Description (c.g., road crossing): <u>Bridge Crossing 1.50m Upstream</u> |
| Personnel (Data Collectors): <u>Lunt & Wells</u> | |
| Current Weather Conditions: <u>Cloudy 60-65°F</u> | Facility Name: <u>Maysville Lagoon</u> |
| Weather Conditions for Past 10 days: <u>Sunny / Heavy Rain</u> | Permit Number: <u>MO 00411010</u> |
| Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/> | |

Site Locations:

| LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) | |
|--|--|
| Site GPS Coordinates: UTM X: <u>W 39.87645094, 310078 W 094.36078 N 39.87645</u> | |
| HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) | |
| Global Positioning System (GPS) | Interpolation |
| Static Mode | Topographic Map or DRG |
| Dynamic Mode (Kinematic) | Aerial Photograph or DOQQ |
| Precise Positioning Service | Satellite Imagery |
| Signal Averaging | Interpolation Other |
| Real Time Differential Processing | |
| HORIZONTAL ACCURACY ESTIMATE | |
| GPS Data Quality | Interpolation Data Quality |
| FOM ± _____ Meters | Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters |
| EPE ± <u>15</u> Feet or ± _____ Meters | |
| PDOP | |

Photos:

| Upstream Photos | | Downstream Photos | | Other Photos | |
|-----------------|---------------------|-------------------|---------------------|-------------------------|---|
| Photo ID# | Photo Purpose | Photo ID# | Photo Purpose | Photo ID# | Photo Purpose |
| <u>500-13</u> | <u>Transect J-K</u> | <u>500-12</u> | <u>Transect B-A</u> | <u>500-8, 9, 10, 11</u> | <u>360° of Transect A: Up, Down, RL, LA</u> |

Uses Observed*: (Uses actually observed at time of survey.)

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

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"/> None of the above | <input type="checkbox"/> Other: |

Comments:

Indications of Human Use*: (attach photos)

| | | | | | |
|---|--|--|---|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Rope swings | <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"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Other: | |

Comments: Water Rd 1/4 south of Maysville

* Page Two - Data Sheet B for WBID # 455 :

Stream Morphology:

007- Pool
407- run

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features: Transsect O-K

100

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|-----------------|--------------------------|-----------|------------|------------------|----------------|
| RIFFLE | | | | | |
| RUN | | | | | |
| POOL | 200m | 4.4 m | 15 | 0.52 | 0.62 |

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No - Pool

Select one of the following channel features: B-A

0%

50%

50%

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|-----------------|--------------------------|-----------|------------|------------------|----------------------|
| RIFFLE | | | | | |
| RUN Pool | | | | | |
| POOL RUN | 150m | 4.50 | 15m | 0.13m | 0.15 0.20 |

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

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

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

Aquatic Vegetation throughout transect B-J. No algal growth, Woody debris & Log Piles

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 type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input checked="" type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input checked="" type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input 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 any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Ryan M. Lund Date of Survey: 05-15-07

Organization: Seagull Environmental Technologies Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

Transect Reach: 15 meter

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transect A 7.5% / 10 = .45 ↓ | 0.45 | 0.09 | | 1 | |
| | 0.90 | 0.05 | | 2 | |
| | 1.35 | 0.04 | | 3 | |
| | 1.80 | 0.07 | | 4 | |
| | 2.25 | 0.10 | | 5 | |
| | 2.70 | 0.15 | | 6 | |
| | 3.15 | 0.19 | | 7 | |
| | 3.60 | 0.20 | | 8 | |
| | 4.05 | 0.20 | | 9 | |
| | 4.50 | 0.02 | | 10 | |
| Transect B 2.4% / 10 = .64 ↓ | 0.64 | 0.23 | | 11 | |
| | 1.28 | 0.63 | | 12 | |
| | 1.92 | 0.89 | | 13 | |
| | 2.56 | 0.85 | | 14 | |
| | 3.20 | 0.84 | | 15 | |
| | 3.84 | 0.85 | | 16 | |
| | 4.48 | 0.82 | | 17 | |
| | 5.12 | 0.70 | | 18 | |
| | 5.76 | 0.61 | | 19 | |
| | 6.40 | 0.12 | | 20 | |
| Transect C 3.8% / 10 = .38 ↓ | 0.38 | 0.10 | | 21 | |
| | 0.76 | 0.12 | | 22 | |
| | 1.14 | 0.18 | | 23 | |
| | 1.52 | 0.34 | | 24 | |
| | 1.90 | 0.40 | | 25 | |
| | 2.28 | 0.34 | | 26 | |
| | 2.66 | 0.22 | | . | |
| | 3.04 | 0.14 | | . | |
| | 3.42 | 0.04 | | . | |
| | 3.80 | 0.01 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Junt

Date: 05-19-07

Organization: SETI

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transect D 2.4% / 10 1.44 ↓ | 0.44 | 0.14 | | 1 | |
| | 0.88 | 0.20 | | 2 | |
| | 1.32 | 0.18 | | 3 | |
| | 1.76 | 0.16 | | 4 | |
| | 2.20 | 0.21 | | 5 | |
| | 2.64 | 0.20 | | 6 | |
| | 3.08 | 0.19 | | 7 | |
| | 3.52 | 0.09 | | 8 | |
| | 3.96 | 0.02 | | 9 | |
| | 4.40 | 0.01 | | 10 | |
| Transect E 3.6% / 10 1.36 ↓ | 0.30 | 0.13 | | 11 | |
| | 0.72 | 0.14 | | 12 | |
| | 1.08 | 0.15 | | 13 | |
| | 1.44 | 0.19 | | 14 | |
| | 1.80 | 0.21 | | 15 | |
| | 2.16 | 0.25 | | 16 | |
| | 2.52 | 0.28 | | 17 | |
| | 2.88 | 0.32 | | 18 | |
| | 3.24 | 0.30 | | 19 | |
| | 3.60 | 0.10 | | 20 | |
| Transect F 3.3% / 10 1.33 ↓ | 0.33 | 0.10 | | 21 | |
| | 0.66 | 0.14 | | 22 | |
| | 0.99 | 0.23 | | 23 | |
| | 1.32 | 0.31 | | 24 | |
| | 1.65 | 0.40 | | 25 | |
| | 1.98 | 0.51 | | 26 | |
| | 2.30 | 0.61 | | . | |
| | 2.63 | 0.64 | | . | |
| | 2.96 | 0.43 | | . | |
| | 3.30 | 0.11 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Myron M. Lunt

Date: 05-15-07

Organization: SEPI

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--|---------------------------|-------|------|---------------|--------------|
| Transsect G 0 1.7% 100 147 ↓ | 0.47 | 0.18 | | 1 | |
| | 0.94 | 0.15 | | 2 | |
| | 1.41 | 0.14 | | 3 | |
| | 1.88 | 0.18 | | 4 | |
| | 2.35 | 0.13 | | 5 | |
| | 2.82 | 0.16 | | 6 | |
| | 3.29 | 0.14 | | 7 | |
| | 3.76 | 0.10 | | 8 | |
| | 4.23 | 0.08 | | 9 | |
| | 4.70 | 0.02 | | 10 | |
| Transsect H 1.8% 100 146 ↓ | 0.48 | 0.13 | | 11 | |
| | 0.96 | 0.19 | | 12 | |
| | 1.44 | 0.15 | | 13 | |
| | 1.92 | 0.14 | | 14 | |
| | 2.40 | 0.21 | | 15 | |
| | 2.88 | 0.25 | | 16 | |
| | 3.36 | 0.30 | | 17 | |
| | 3.84 | 0.35 | | 18 | |
| | 4.32 | 0.31 | | 19 | |
| | 4.80 | 0.01 | | 20 | |
| Transsect I 2.6% 100 128 | 0.28 | 0.05 | | 21 | |
| | 0.56 | 0.06 | | 22 | |
| | 0.84 | 0.10 | | 23 | |
| | 1.12 | 0.19 | | 24 | |
| | 1.40 | 0.14 | | 25 | |
| | 1.68 | 0.21 | | 26 | |
| | 1.96 | 0.27 | | . | |
| | 2.24 | 0.29 | | . | |
| | 2.52 | 0.21 | | . | |
| | 2.80 | 0.10 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

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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: Ryan M. Sant

Date: 05-15-07
Environmental

Organization: SEPR

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|----------------------------------|---------------------------|-------|------|---------------|--------------|
| Transect J 5.0% slope 5.50 | 0.50 | 0.18 | | 1 | |
| | 1.00 | 0.34 | | 2 | |
| | 1.50 | 0.3 | | 3 | |
| | 2.00 | 0.21 | | 4 | |
| | 2.50 | 0.15 | | 5 | |
| | 3.00 | 0.11 | | 6 | |
| | 3.50 | 0.10 | | 7 | |
| | 4.00 | 0.09 | | 8 | |
| | 4.50 | 0.09 | | 9 | |
| | 5.00 | 0.01 | | 10 | |
| Transect K 4.4% slope 4.4 | 0.44 | 0.39 | 0.11 | 11 | |
| | 0.88 | 0.50 | 0.22 | 12 | |
| | 1.32 | 0.55 | 0.34 | 13 | |
| | 1.76 | 0.55 | 0.49 | 14 | |
| | 2.20 | 0.60 | 0.50 | 15 | |
| | 2.64 | 0.62 | 0.55 | 16 | |
| | 3.08 | 0.61 | 0.55 | 17 | |
| | 3.52 | 0.49 | 0.60 | 18 | |
| | 3.96 | 0.22 | 0.61 | 19 | |
| | 4.40 | 0.11 | 0.62 | 20 | |
| | | | 21 | | |
| | | | 22 | | |
| | | | 23 | | |
| | | | 24 | | |
| | | | 25 | | |
| | | | 26 | | |
| | | | . | | |
| | | | . | | |
| | | | . | | |
| | | | n | | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Ryan M. Hunt

Date: 09-15-07

Organization: SETE

Position: Environmental Scientist

WBID# 500
 Site# 3

Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
 (must be completed for each site)

| | |
|--|--|
| Date & Time: <u>05-15-07</u> <u>15:10</u> | Site Location Description (c.g., road crossing): <u>Bridge crossings 75 meters downstream</u> |
| Personnel (Data Collectors): <u>LUNT & WELLS</u> | Facility Name: <u>Maysville Lagoon</u> |
| Current Weather Conditions: <u>Cloudy</u> | Permit Number: <u>MO00411010</u> |
| Weather Conditions for Past 10 days: <u>Sunny/Heavy Rain</u> | |
| Drought Conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/> | |

Site Locations:

| LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) | |
|---|--|
| Site GPS Coordinates: UTM X: <u>N 39.87292 W 094.34849</u> UTM Y: <u>N 39.87292</u> | |
| HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) | |
| Global Positioning System (GPS) | Interpolation |
| Static Mode | Topographic Map or DRG |
| Dynamic Mode (Kinematic) | Aerial Photograph or DOQQ |
| Precise Positioning Service | Satellite Imagery |
| Signal Averaging | Interpolation Other |
| Real Time Differential Processing | |
| HORIZONTAL ACCURACY ESTIMATE | |
| GPS Data Quality | Interpolation Data Quality |
| FOM ± _____ Meters | Source Map Scale: 1:24,000 1:100,000 Other _____ ± _____ Feet or ± _____ Meters |
| EPE ± _____ Feet or ± _____ Meters | |
| PDOP | |

Photos:

| Upstream Photos | | Downstream Photos | | Other Photos | |
|-----------------|---------------|-------------------|---------------|------------------|--|
| Photo ID# | Photo Purpose | Photo ID# | Photo Purpose | Photo ID# | Photo Purpose |
| <u>500-19</u> | | <u>500-18</u> | | <u>500-14-17</u> | <u>360° of Trapnet A1 Up, Rt, Down, Lt</u> |

Uses Observed*: (Uses actually observed at time of survey.)

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <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, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)

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

| | | | | |
|--|--------------------------------------|---|--|--|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> None of the above | <input checked="" type="checkbox"/> Other: <u>Fern lined</u> |

Comments: County or City Lake is upstream

Indications of Human Use*: (attach photos)

| | | | | | |
|---|--|--|---|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Rope swings | <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"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle | <input type="checkbox"/> Other: | |

Comments: Rail Road Rd

* Page Two – Data Sheet B for WBID # 500 :

Stream Morphology:

Upstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features: Transect B-JK

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|-----------------|--------------------------|-----------|------------|------------------|----------------|
| RIFFLE | | | | | |
| RUN | | | | | |
| 100% POOL | 200m | 4m | 15m | 0.50 | 0.60 |

Downstream View's Physical Dimensions: Is there any water present at this view? Yes No

If so, is there an obvious current? Yes No

Select one of the following channel features: Transect B-A

| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) |
|------------------|--------------------------|-----------|------------|------------------|----------------|
| RIFFLE | | | | | |
| 100% RUN - blade | 75m | 4.7 | 15 | 0.46 | 0.50 |
| POOL | | | | | |

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

| | | | | | |
|----------|----------|----------|----------|---------------|-----------|
| % Cobble | % Gravel | 5 % Sand | 5 % Silt | 90 % Mud/Clay | % Bedrock |
|----------|----------|----------|----------|---------------|-----------|

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

RL
aquatic vegetation along bankful, no algal growth to little algal growth

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 type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input checked="" type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input checked="" type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input 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 any additional comments () 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.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: Ryan M. Luit Date of Survey: 05-14-07

Organization: Seagull Environmental Technologies Position: Environmental Technologies

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

Transect Reach: 15 meters

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transect A 3.3' / 10 1.33 ↓ | 0.33 | 0.13 | | 1 | |
| | 0.66 | 0.24 | | 2 | |
| | 0.99 | 0.33 | | 3 | |
| | 1.32 | 0.36 | | 4 | |
| | 1.65 | 0.40 | | 5 | |
| | 1.98 | 0.44 | | 6 | |
| | 2.31 | 0.51 | | 7 | |
| | 2.64 | 0.57 | | 8 | |
| | 2.97 | 0.59 | | 9 | |
| | 3.30 | 0.44 | | 10 | |
| Transect B 4.7' / 10 1.47 ↓ | 0.47 | 0.40 | 0.01 | 11 | |
| | 0.94 | 0.54 | 0.11 | 12 | |
| | 1.41 | 0.49 | 0.40 | 13 | |
| | 1.88 | 0.51 | 0.46 | 14 | |
| | 2.35 | 0.48 | 0.49 | 15 | |
| | 2.82 | 0.53 | 0.49 | 16 | |
| | 3.29 | 0.56 | 0.51 | 17 | |
| | 3.76 | 0.46 | 0.53 | 18 | |
| | 4.22 | 0.11 | 0.54 | 19 | |
| | 4.70 | 0.01 | 0.56 | 20 | |
| Transect C 3.5' / 10 1.35 ↓ | 0.35 | 0.48 | | 21 | |
| | 0.70 | 0.34 | | 22 | |
| | 1.05 | 0.35 | | 23 | |
| | 1.40 | 0.33 | | 24 | |
| | 1.75 | 0.31 | | 25 | |
| | 2.10 | 0.33 | | 26 | |
| | 2.45 | 0.27 | | . | |
| | 2.80 | 0.33 | | . | |
| | 3.15 | 0.44 | | . | |
| | 3.50 | 0.40 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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

Signed: Myron M. Sweet

Date: 05-15-07

Organization: SETI

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|------------------------------------|---------------------------|-------|------|---------------|--------------|
| Transsect D 4.5/1.0 4.5 | 0.45 | 0.09 | | 1 | |
| | 0.90 | 0.15 | | 2 | |
| | 1.35 | 0.33 | | 3 | |
| | 1.80 | 0.35 | | 4 | |
| | 2.25 | 0.31 | | 5 | |
| | 2.70 | 0.31 | | 6 | |
| | 3.15 | 0.36 | | 7 | |
| | 3.60 | 0.30 | | 8 | |
| | 4.05 | 0.29 | | 9 | |
| | 4.50 | 0.24 | | 10 | |
| Transsect E 3.8/1.0 3.8 ↓ | 0.38 | 0.13 | | 11 | |
| | 0.76 | 0.28 | | 12 | |
| | 1.14 | 0.32 | | 13 | |
| | 1.52 | 0.31 | | 14 | |
| | 1.90 | 0.30 | | 15 | |
| | 2.28 | 0.33 | | 16 | |
| | 2.66 | 0.34 | | 17 | |
| | 3.04 | 0.38 | | 18 | |
| | 3.42 | 0.42 | | 19 | |
| | 3.80 | 0.24 | | 20 | |
| Transsect F 3.8/1.0 3.8 ↓ | 0.38 | 0.25 | | 21 | |
| | 0.76 | 0.41 | | 22 | |
| | 1.14 | 0.49 | | 23 | |
| | 1.52 | 0.49 | | 24 | |
| | 1.90 | 0.51 | | 25 | |
| | 2.28 | 0.55 | | 26 | |
| | 2.66 | 0.52 | | . | |
| | 3.04 | 0.51 | | . | |
| | 3.42 | 0.50 | | . | |
| | 3.80 | 0.93 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

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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: Ryan M. Junt

Date: 05-15-07

Organization: SETE

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--|---------------------------|-------|------|---------------|--------------|
| Transsect G 3.7' x 16 ↓ 3.7 | 0.37 | 0.23 | | 1 | |
| | 0.74 | 0.33 | | 2 | |
| | 1.11 | 0.38 | | 3 | |
| | 1.48 | 0.34 | | 4 | |
| | 1.85 | 0.36 | | 5 | |
| | 2.17 | 0.33 | | 6 | |
| | 2.54 | 0.30 | | 7 | |
| | 2.91 | 0.25 | | 8 | |
| | 3.28 | 0.15 | | 9 | |
| | 3.65 | 0.04 | | 10 | |
| Transsect H, 4.8' x 16 ↓ 4.8 | 0.48 | 0.17 | | 11 | |
| | 0.96 | 0.31 | | 12 | |
| | 1.44 | 0.37 | | 13 | |
| | 1.92 | 0.30 | | 14 | |
| | 2.40 | 0.24 | | 15 | |
| | 2.88 | 0.20 | | 16 | |
| | 3.36 | 0.14 | | 17 | |
| | 3.84 | 0.10 | | 18 | |
| | 4.32 | 0.09 | | 19 | |
| | 4.80 | 0.05 | | 20 | |
| Transsect I 4.0' x 10 ↓ 4.0 | 1.40 | 0.13 | | 21 | |
| | 1.80 | 0.15 | | 22 | |
| | 1.20 | 0.07 | | 23 | |
| | 1.60 | 0.09 | | 24 | |
| | 2.00 | 0.13 | | 25 | |
| | 2.40 | 0.25 | | 26 | |
| | 2.80 | 0.30 | | . | |
| | 3.20 | 0.37 | | . | |
| | 3.60 | 0.39 | | . | |
| | 4.0 | 0.30 | | n | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

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Signed: Ryan M. Hunt

Date: 05-15-07

Organization: SEI

Position: Environmental Scientist

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|--|---------------------------|-------|-----------|---------------|--------------|
| Transect J. 4.5' x 10' 145' ↓ | 0.45 | 0.08 | | 1 | |
| | 0.90 | 0.30 | | 2 | |
| | 1.35 | 0.45 | | 3 | |
| | 1.80 | 0.51 | | 4 | |
| | 2.25 | 0.57 | | 5 | |
| | 2.70 | 0.50 | | 6 | |
| | 3.15 | 0.37 | | 7 | |
| | 3.60 | 0.31 | | 8 | |
| | 4.05 | 0.35 | | 9 | |
| | 4.50 | 0.30 | | 10 | |
| Transect R 4.0' x 10' 40' | 0.40 | 0.40 | 0.40 (1) | 11 | |
| | 0.60 | 0.43 | 0.42 (2) | 12 | |
| | 0.70 | 0.45 | 0.43 (3) | 13 | |
| | 1.60 | 0.51 | 0.45 (4) | 14 | |
| | 2.00 | 0.59 | 0.50 (5) | 15 | |
| | 2.40 | 0.60 | 0.51 (6) | 16 | |
| | 2.80 | 0.39 | 0.56 (7) | 17 | |
| | 3.20 | 0.56 | 0.57 (8) | 18 | |
| | 3.60 | 0.50 | 0.59 (9) | 19 | |
| | 4.00 | 0.42 | 0.60 (10) | 20 | |
| | | | 21 | | |
| | | | 22 | | |
| | | | 23 | | |
| | | | 24 | | |
| | | | 25 | | |
| | | | 26 | | |
| | | | . | | |
| | | | . | | |
| | | | . | | |
| | | | n | | |

If there is an odd number of entries find middle rank $[(n+1)/2]$. The corresponding sorted value depth to the middle rank is the median depth.

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Signed: Ryan M. Hunt

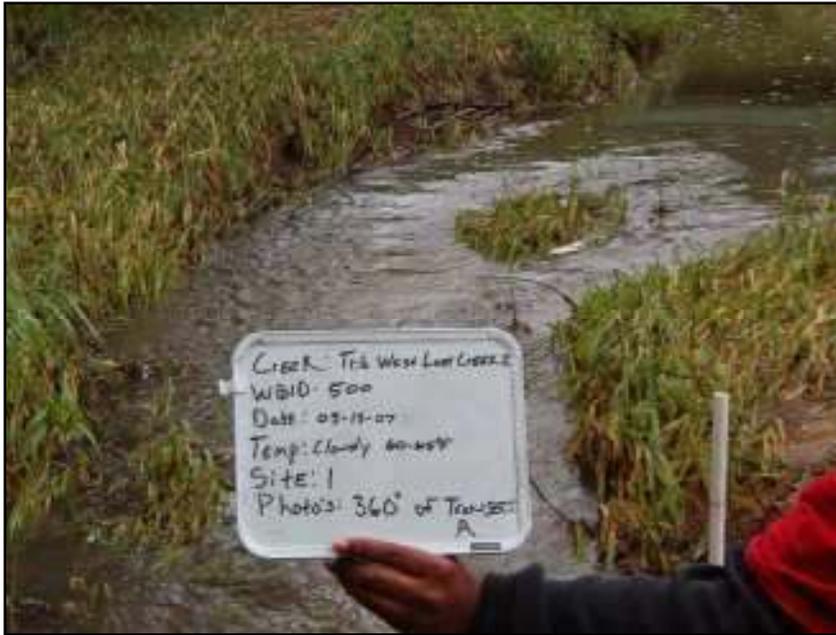
Date: 05-15-07

Organization: SEPI

Position: Environmental Scientist

DISSOLVED OXYGEN DATA ENTRY SHEET

| Stream ID | WBID | Date | Time | Cross - Section # | Transect # | DO Reading (mg/L) |
|---|------|---------------------------|-------|-------------------------|------------|-------------------|
| Trip, West Fork Lost Creek 2  | SOD | 05-18-07 | 10:53 | 1 | 1 | 6.80 |
| | | | 11:15 | | 2 | 7.05 |
| | | | 11:23 | | 3 | 6.79 |
| | | | 11:31 | | 4 | 6.65 |
| | | | 11:42 | | 5 | 6.20 |
| | | | 11:53 | | 6 | 6.48 |
| | | | 12:00 | | 7 | 5.96 |
| | | | 12:07 | | 8 | 6.71 |
| | | | 12:25 | | 9 | 6.34 |
| | | | 12:36 | | 10 | 7.26 |
| | | | 12:45 | | 11 | 6.71 |
| | | 13:00 | 1 | 5.53 | | |
| | | 13:15 | 2 | 6.64 | | |
| | | 13:22 | 3 | 6.49 | | |
| | | 13:37 | 4 | 6.22 | | |
| | | 13:45 | 5 | 6.37 | | |
| | | 13:52 | 6 | 6.50 | | |
| | | 13:59 | 7 | 6.13 | | |
| | | 14:07 | 8 | 6.36 | | |
| | | 14:15 | 9 | 6.89 | | |
| | | 14:20 | 10 | 6.74 | | |
| | | 14:35 | 11 | 6.49 | | |
| | | 14:50 | 1 | 5.55 | | |
| | | RL 15:07 15:07 | 2 | 5.96 | | |
| | | 15:14 | 3 | 6.06 | | |
| | | 15:23 | 4 | 6.17 | | |
| | | 15:36 | 5 | 6.01 | | |
| | | 15:45 | 6 | 5.95 5.05 RL | | |
| | | 15:53 | 7 | 6.17 | | |
| | | 16:13 | 8 | 6.41 | | |
| | | 16:28 | 9 | 6.21 | | |
| | | 16:39 | 10 | RL 6.09 6.09 | | |
| | | 16:54 | 11 | 6.24 | | |



Transect A (Site 1) of Tributary to West Lost Creek 2.



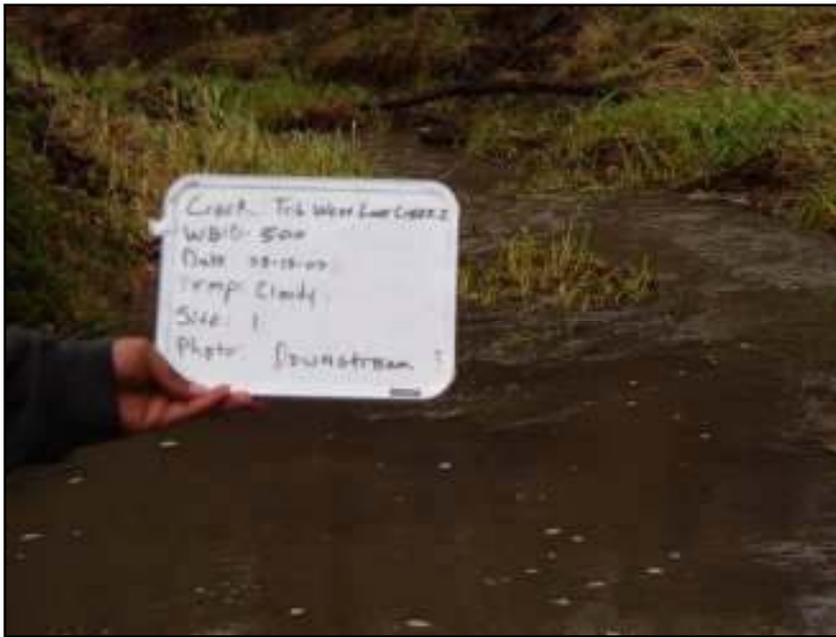
Transect A (Site 1) of Tributary to West Lost Creek 2.



Transect A (Site 1) of Tributary to West Lost Creek 2.



Transect A (Site 1) of Tributary to West Lost Creek 2.



Downstream (Site 1) of Tributary to West Lost Creek 2.



Upstream (Site 1) of Tributary to West Lost Creek 2.



Transect A (Site 2) of Tributary to West Lost Creek 2.



Transect A (Site 2) of Tributary to West Lost Creek 2.



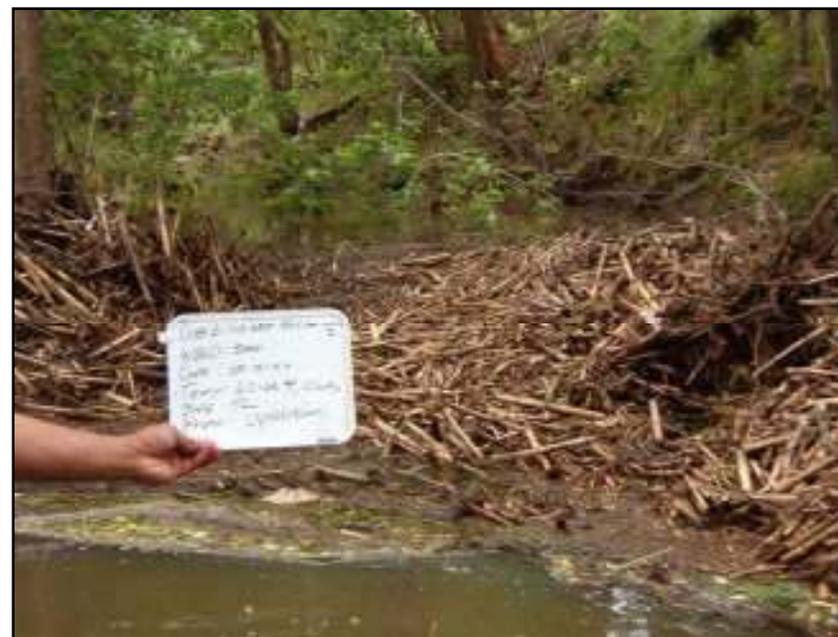
Transect A (Site 2) of Tributary to West Lost Creek 2.



Transect A (Site 2) of Tributary to West Lost Creek 2.



Downstream (Site 2) of Tributary to West Lost Creek 2.



Upstream (Site 2) of Tributary to West Lost Creek 2.



Transect A (Site 3) of Tributary to West Lost Creek 2.



Transect A (Site 3) of Tributary to West Lost Creek 2.



Transect A (Site 3) of Tributary to West Lost Creek 2.



Transect A (Site 3) of Tributary to West Lost Creek 2.



Downstream (Site 3) of Tributary to West Lost Creek 2.



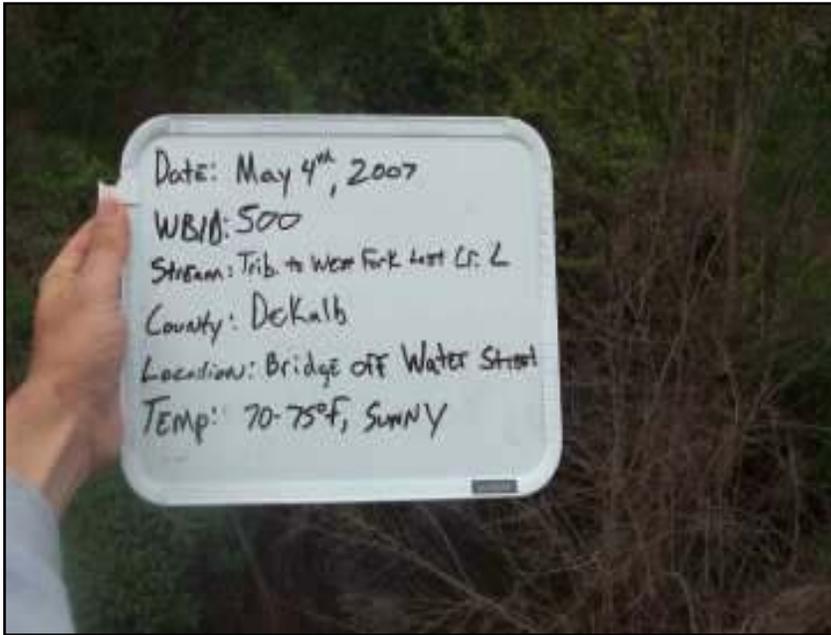
Upstream (Site 3) of Tributary to West Lost Creek 2.



Bridge on Lakesite Road of Tributary to West Lost Creek 2.



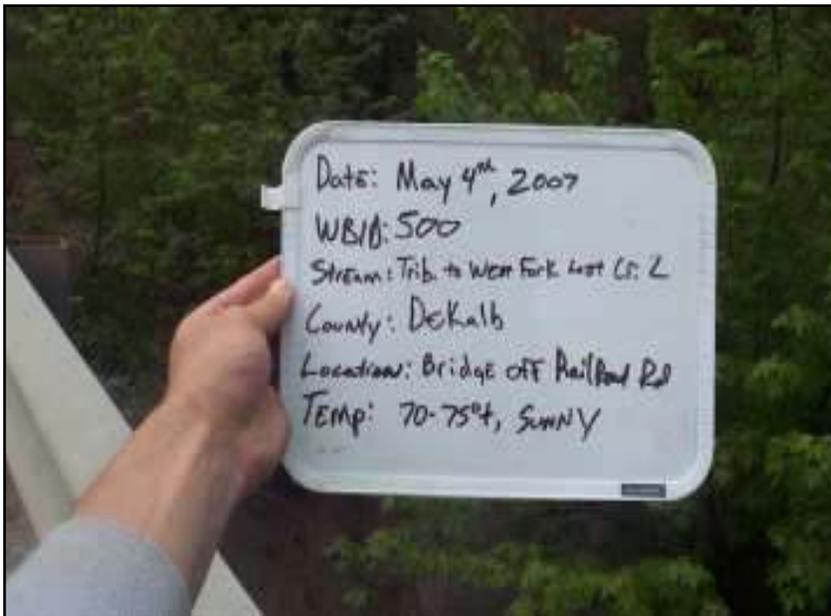
Bridge on Lakesite Road of Tributary to West Lost Creek 2.



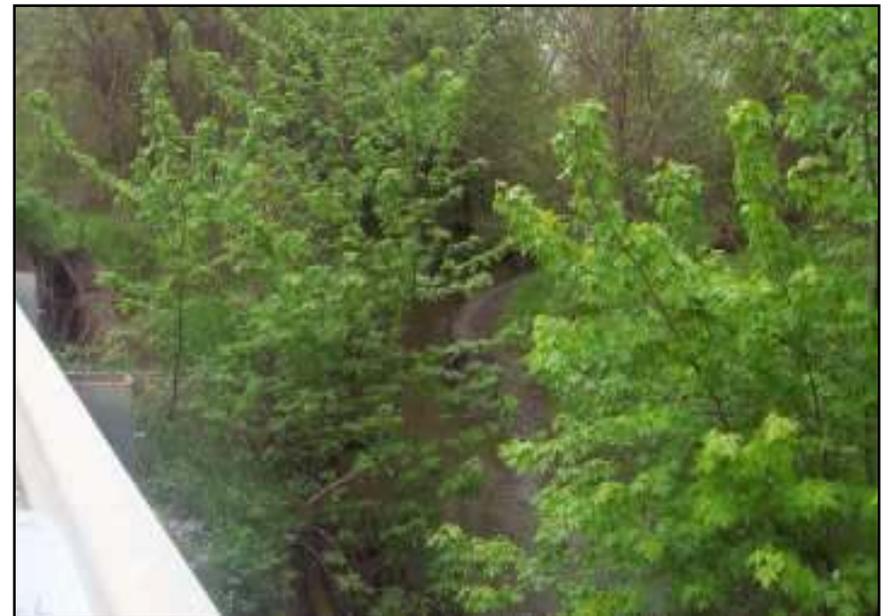
Bridge on Water Street of Tributary to West Lost Creek 2.



Bridge on Water Street of Tributary to West Lost Creek 2.



Bridge on Railroad Road of Tributary to West Lost Creek 2.



Bridge on Railroad Road of Tributary to West Lost Creek 2.

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

Stream Name Tributary to West Fork Lost Creek (WBID # 500)

2

I. Introduction

Date & Time (include AM or PM): 04-05-07 12:30 P.M.

Interviewed: In person By phone By mail

(NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)

Interviewee selected because (e.g., house next to stream; standing by stream, etc.) Works for the City Water Dept which is near the stream.

Interviewer introduction to Interviewee: "My name is _____, I work for _____ (name of your employer), and I am collecting information on how people use _____ (name of the stream)."

ASK:

1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.)

Yes No If yes, list contact information for the interviewee below:

Legal name: John Palmer

Current mailing address: 200 N. Camdenston Rd. Maysville, Mo 64469

Daytime phone number: (616) 449-5302 City Water Dept PHONE Number

E-mail address (optional):

2.a.) Do you live in this area? Yes No

If yes, how many years?

2.b.) If you don't live nearby, are you still familiar with this stream? Yes No

If yes, how many years?

If no, thank the individual for taking the time to talk to you and conclude the interview.

3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No

If yes, proceed to "II. Personal Use?".

If no, proceed to Section V.

II. Personal Use?

1.) Have you or your family personally used the stream for recreation since November 28, 1975?

Yes No

If yes, proceed to #3.

If no, proceed to #2.

2.a.) List reasons stream not used.

The stream is too small for any recreational purposes
Its NEVER witnessed anyone using the stream

2.b.) Proceed to "III. Witnessed Use?".

3.) How do you use the stream?

| <i>Whole Body Contact Recreation</i> | | | |
|--------------------------------------|---------------------------------|---|---------------------------------------|
| Swimming <input type="checkbox"/> | Tubing <input type="checkbox"/> | Snorkeling/Skin Diving <input type="checkbox"/> | Water Skiing <input type="checkbox"/> |

If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:

4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

| <i>Secondary Contact Recreation</i> | | | | |
|-------------------------------------|---------------------------------|----------------------------------|-----------------------------------|---|
| Fishing <input type="checkbox"/> | Wading <input type="checkbox"/> | Boating <input type="checkbox"/> | Trapping <input type="checkbox"/> | Other: <input type="checkbox"/> List: _____ |

If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:

4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

4.d.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

III. Witnessed Use?

1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No

If yes, proceed to #2.

If no, proceed to, "IV. Anecdotal Use?".

2.) What kinds of uses have you witnessed?

| <i>Whole Body Contact Recreation</i> | | | |
|--------------------------------------|---------------------------------|---|---------------------------------------|
| Swimming <input type="checkbox"/> | Tubing <input type="checkbox"/> | Snorkeling/Skin Diving <input type="checkbox"/> | Water Skiing <input type="checkbox"/> |

If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List:

If interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the map* (Seemap requirements in the protocol). _____

IV. Anecdotal Use?

1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No

 If yes, proceed to #2.

 If no, thank the individual for taking the time to talk to you and conclude the interview.

2.) What kind of uses have you heard about?

Whole Body Contact Recreation

Swimming Tubing Snorkeling/Skin Diving Water Skiing

If interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:

2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.b.) Where, exactly? Describe specific location *and mark on the map* (See map requirements in the protocol). _____

Secondary Contact Recreation

Fishing Wading Boating Trapping Other: List:

If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:

2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? _____

2.d.) Where, exactly? Describe specific location *and mark on the* (See map requirements in the protocol). _____

V. Others to Contact?

Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?) _____

If no, thank the individual for taking the time to talk to you and conclude the interview.

VI. Additional Comments

1.) From the Interviewee: Stream usually goes dry during THE SUMMER.

2.) From the Interviewer: _____

VII. Information on Interviewer

Has interviewer been trained by Missouri DNR to conduct UAA Interviews?

Yes No If yes, how (check all that apply):

Workshop? (if so, enter date): _____

On-line training seminar? _____

Followed Interview Instruction Sheets? _____

Other _____

Interviewer Information:

Signature: Ryan M. Hunt

Printed Name: Ryan M. Hunt

Employer (where applicable): SEAGULL ENVIRONMENTAL TECHNOLOGIES

Interviewer's phone #: _____ E-mail: _____



Donna Menown/WPCP/DEQ/MODNR

01/04/2008 12:37 PM

To "Cindy DiStefano" <Cindy.DiStefano@mdc.mo.gov>
cc "Karen Bataille" <Karen.Bataille@mdc.mo.gov>, John.Hoke@dnr.mo.gov
Eric Hempel/WPCP/DEQ/MODNR@MODNR; All Message Store@MODNR; All Message Store@MODNR; All Message Store@MODNR

Subject Re: Info Request/ Cole Camp Ck/ Flat Crk Trib 2 

The information provided in your e-mail below answers my remaining questions (from my 12/12/07 e-mail below) regarding Cole Camp Ck (WBID 3303) and Trib to Flat Ck 2 (WBID 3509).

Along with the information you provided on Trib to West Fork of Lost Creek 2 (WBID 500) in your 12/20/07 e-mail to me, we now have the confirmation we needed to document existing Whole Body Contact and Secondary Contact Use (since Nov. 28, 1975) on these three water bodies.

Thanks so much to you (and all others involved) in your department's continued efforts and cooperation on this important issue.

Donna Menown
Total Maximum Daily Load (TMDL) Developer
Div. of Env. Quality/Water Protection Program
MO Dept. of Natural Resources, Jeff. City
(573) 526-1595; FAX [522-9920]
e-mail: donna.menown@dnr.mo.gov
"Cindy DiStefano" <Cindy.DiStefano@mdc.mo.gov>



"Cindy DiStefano"
<Cindy.DiStefano@mdc.mo.gov>

01/04/2008 10:03 AM

To "Donna Menown" <donna.menown@dnr.mo.gov>
cc "Karen Bataille" <Karen.Bataille@mdc.mo.gov>
Subject Re: Info Request/ Cole Camp Ck/ Flat Crk Trib 2 - 1/10 deadline

Donna,

Here is the response that I received on Cole Camp Creek and Flat Creek Trib 2:

"The biologist and/or agent that reported this information was using observations from the past 15 years."

I hope this information answers all of your questions.

Cindy

Cindy DiStefano
Resource Scientist - Environmental Health
Missouri Department of Conservation
1110 S. College Ave.
Columbia, MO 65201
(573) 882-9909 x3297

FAX - (573) 882-4517
Cindy.DiStefano@mdc.mo.gov

>>> "Donna Menown" <donna.menown@dnr.mo.gov> 01/03/08 1:10 PM >>>
Thanks again for info below. I left you a voice mail message around noon today. We are on a rulemaking schedule for the WBCR/SCR rule changes and must get our recommendations done by end of next week, so really need any info on the remaining water bodies by next Thursday, 1/10, at the latest.

Otherwise, they will have to wait until the next time the department pushes more rule changes on this issue. I'm told it could be years.

Donna Menown
Total Maximum Daily Load (TMDL) Developer
Div. of Env. Quality/Water Protection Program
MO Dept. of Natural Resources, Jeff. City
(573) 526-1595; FAX [522-9920]
e-mail: donna.menown@dnr.mo.gov

"Cindy DiStefano" <Cindy.DiStefano@mdc.mo.gov>
12/20/2007 10:43 AM

To
"Donna Menown" <donna.menown@dnr.mo.gov>
cc
John.Hoke@dnr.mo.gov, "Karen Bataille" <Karen.Bataille@mdc.mo.gov>,
"Robert Lawrence" <Robert.Lawrence@mdc.mo.gov>
Subject
Re: Info Request/ Cole Camp Ck/ Lost Crk Trib 2/ Flat Crk Trib 2

Donna,

Here is the information that I have received so far.

TRIB TO WEST FORK OF LOST CK 2 (DeKalb Co.):

MDC Fisheries staff have observed kids fishing and wading/swimming in this stream at sites 137 & 138 on the south edge of Maysville. These observations were made since 2000, and may have been made in the last year or two.

I'll send more information as I receive it.

Cindy

>>> "Donna Menown" <donna.menown@dnr.mo.gov> 12/12/07 2:11 PM >>>
Thanks so much for sending your 12/6 e-mail and attachments (below). We had two questions regarding info MDC provided in the 8/24/05 John Hoskins letter to DNR, specifically on three creeks:

Cole Camp Creek (WBID 3303) - "MDC staff observed the public swimming and wade fishing..."

Trib. to Flat Creek 2 (WBID 3509) - "MDC staff observed the public swimming and wade fishing..."
Trib. to West Fork of Lost Creek 2 (WBID 500) -
"MDC staff observed the public swimming in this stream..."

QUESTION 1: LOCATIONS OF REPORTED USE?

The first question was about a more specific location of reported use (whole body recreation/secondary contact recreation). Since the 8/05 MDC letter included a spreadsheet with only the creeks' names, and did not specify a specific stretch, we needed to pin down that the use was reported within the classified segment (i.e., listed in Table H of the Water Quality Standards). And, in the case of Cole Camp Creek - which of the two classified segments water body identification number (WBID) 3303-the upper segment, or WBID 1113-the lower segment) was the use observed?

In your first attachment below ("Draft UAA comment e-mail.doc"), I found part of the answer to our first question. In the 3rd paragraph of this note to field staff, Karen directs staff to access DNR's UAA Web page and writes, "...you'll need to open the UAA to determine what segment of stream the UAA was conducted on and base your comments on that section of the stream only." Also, under the 4th paragraph's second bullet, "If you have seen people swimming in the stream segment specified in the UAA..."

So I pulled the 2005 UAAs from our central file and determined if the entire UAA was done on the segment in question. We have more time and better mapping capability than we did during the 2005 UAA crunch, so are now better able to determine if the UAA included sites on an unclassified portion of the stream, or on the wrong segment (WBID) of the stream, or if they were actually done on the wrong stream altogether. I also checked our Web site (http://www.dnr.mo.gov/env/wpp/wqstandards/uaa/uaa_county.htm) to see which 2005 UAAs were posted, so would know which ones MDC staff reviewed.

QUESTION 2: TIME FRAME OF REPORTED USE?

In what time frame was the use observed? The rules for this topic only apply to uses observed on or after Nov. 28, 1975. Even if you could just report a general time frame -- something like, "The conservation agent [or MDC staffer] who witnessed these activities worked this area throughout the 1980s." or "The biologist who witnessed these activities worked on this creek from 1990-1993." Just so we have something in the record that confirms the use was observed on or after Nov. 28, 1975.

COLE CAMP CK (Benton Co.):

Q#1: Yes, the UAA posted on DNR's UAA Web site was conducted on the correct upper segment (WBID 3303 - as opposed to the downstream WBID 1113 (which was

assigned WBCR in 2005). So Question #1 is answered for this creek. But....

Q#2: we still need a time frame before we can use the info.

TRIB TO FLAT CK 2 (Pettis Co.):

Q#1: Since the only 2005 UAA posted on DNR's Web site was one with all the sites on the correct classified segment. So Question #1 is answered for this creek. But....

Q#2: we still need a time frame before we can use the info.

TRIB TO WEST FORK OF LOST CK 2 (Platte Co.):

Q#1: This is more complicated. The maps provided to us in the 2005 UAAs did not include the existence of Willow Brook Lake (constructed in 1996 on Trib to West Fork of Lost Creek 2; stocked by MDC in 2000). We just created a new map using the 2005 UAA sites' coordinates and got the map attached below. As you can see, some of the sites were actually upstream of the dam. Since all classified lakes are assigned WBCR, what we need information on is the stream itself downstream of the dam. So, since the MDC comments mention the lake and the stream, we need to confirm that the uses observed were witnessed downstream of where the current dam is located. That's what we need from you all.

Q#2: And still need a time frame.

Sorry this has taken a while, Cindy. I was out of the office Friday, the building was closed due to power outage Monday, and our network was down from yesterday afternoon until about an hour ago.

Since I am aware how much MDC's e-mail server changes our e-mails' font type and size, making it harder to read, I will also fax this to you.

Ideally we'd like this information by Dec. 21. Thank you all so much for your help.

Donna Menown
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Div. of Env. Quality/Water Protection Program
MO Dept. of Natural Resources, Jeff. City
(573) 526-1595; FAX [522-9920]
e-mail: donna.menown@dnr.mo.gov

----- Forwarded by Donna Menown/WPCP/DEQ/MODNR on 12/11/2007 01:22 PM

"Cindy DiStefano" <Cindy.DiStefano@mdc.mo.gov>
12/06/2007 10:25 AM

To
"Donna Menown" <donna.menown@dnr.mo.gov>
cc
"Karen Bataille" <Karen.Bataille@mdc.mo.gov>, "Robert Lawrence"

<Robert.Lawrence@mdc.mo.gov>
Subject
Information Request

Donna,

I have attached four files that contain the information that you requested. The ?Draft UAA comment email.doc? contains the instructions that Karen Bataille sent to staff. The ?KC region comments.doc? contains e-mail exchanges between Karen Bataille and Joe Bonneau with instructions and verification of the information. The ?UAACommentsKCRegion.xls? contains all of the information for the streams in the MDC Kansas City Region and the ?UAACommentsNWRRegion.xls? contains all of the information for the streams in the MDC Northwest Region.

Please look over these documents and let me know what information is missing for each stream segment. I want to be able to ask the proper questions to get the answers that you need.

Thanks,
Cindy

Cindy DiStefano
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