Use Attainability Analysis

for

WBID 0391 Muddy Fork

Submitted by
Tetra Tech, Inc

To
Missouri Department of Natural Resources
Water Protection Program

RECEIVED

APR 06 2005

WATER PROTECTION PROGRAM

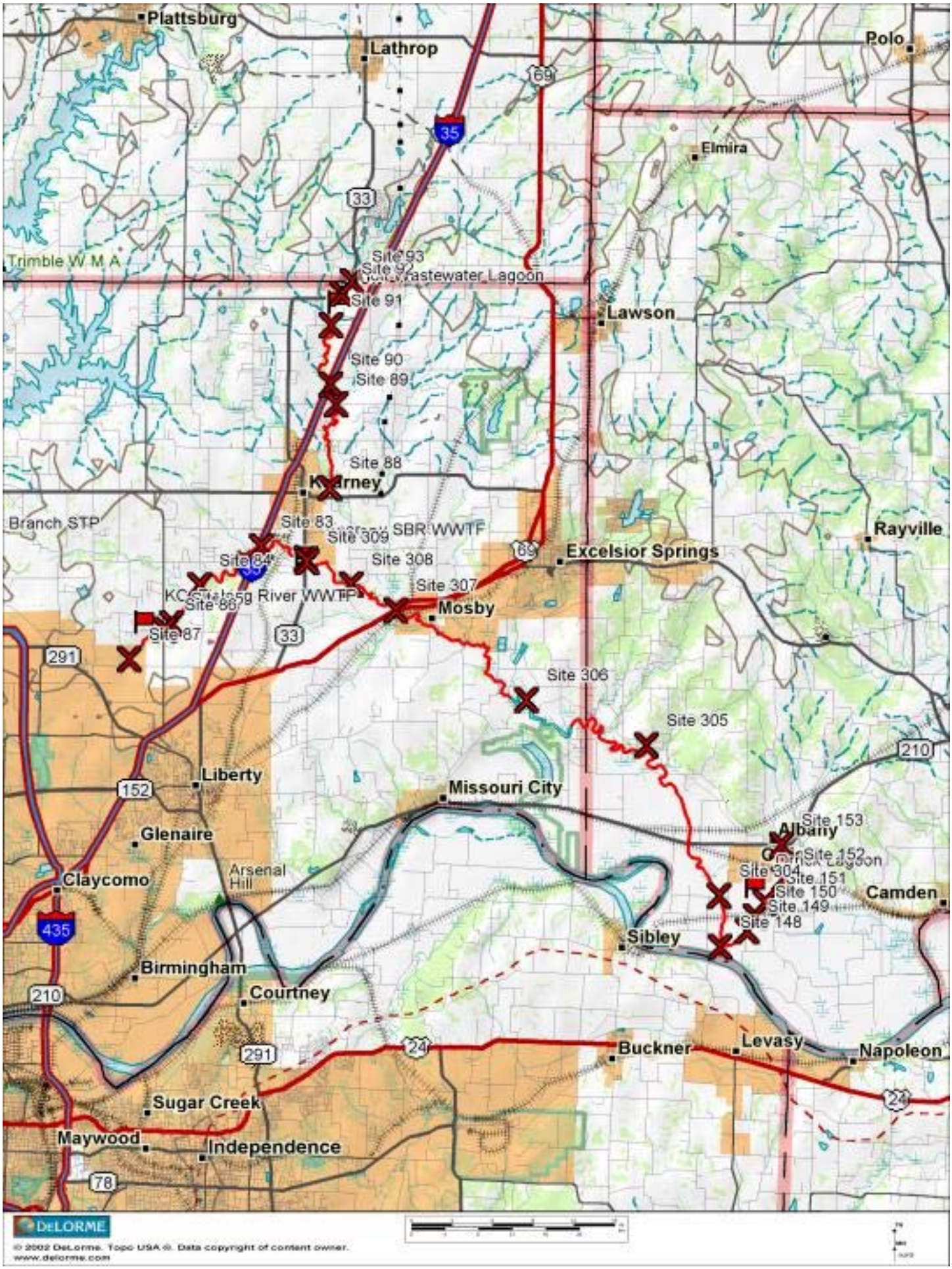
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: (from USGS 7.5' quad)	MUDDY FORK; 88-93
8-digit HUC:	10300101
Missouri WBID #:	0391
County:	CLAY
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)	39.46017 -094.33231 Acc: 45 ft.
Downstream Coordinates: (UGS 84, ddd.ddddd)	39.36773 -094.34552
Discharger Facility Name(s):	HOLT WASTEWATER LAGOON
Discharger Permit Number(s):	MO-0109002
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	ADAM BETTIG; 410-356-8993
Organization:	TETRA TECH Inc.
Position:	ASSOCIATE SCIENTIST

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

Signed: Adam Bettig **Date:** 3/29/05


Plattsburg
Lathrop
Polo
Elmira
Lawson
Trimble W M A
Site 93
Site 92
Wastewater Lagoon
Site 91
Site 90
Site 89
Site 88
Kearney
Branch STP
Site 83
Site 309
SBR WWTF
Site 84
Site 308
Site 307
Site 86
Site 87
Mosby
Excelsior Springs
Rayville
Site 306
Site 305
Liberty
Missouri City
Glenaire
Arsenal Hill
Claycomo
Site 153
Albany
Site 152
Site 304
Site 151
Site 150
Site 149
Site 148
Camden
Sibley
Birmingham
Courtney
Buckner
Levasy
Napoleon
Sugar Creek
Maywood
Independence
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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 #: 088	Site Location Description: AT CROSSING OF MO 92
Site GPS Coordinates: 39.36773/-094.34552	
Date & Time: 3/14/05 / 1800 hrs	Facility Name: HOLT WASTE H_2O LAGOON
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: Sunny, 40's	Weather Conditions for Past 7 days: Sunny, Dry
Photo Ids: Upstream: 1550C / Downstream: 1549C	Other:

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ ~~Trapping~~ AR	☐ Fishing	☐ None of the above	☐ Other:

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

~~ACTIVITY ASSUMED BASED ON LOCATION AND CONDITIONS~~ AR

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

NO ☒ ~~City/county parks~~	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☒ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ 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.

QC - [signature] 3-14-05

NOTE: COORDINATES PROVIDED WERE 0.18mi OFF FROM PT. MARKED ON MAP. AR

Page Two – Data Sheet B for WBID # 088 **:**

Stream Morphology:

Upstream View Physical Dimensions: .1, .15, .12, .13, .15 20sec 7.5m 25sec 7.5m 21sec 7.5m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 13.5m	Length (ft): 20m	Avg. Depth (ft): 0.13m	Max. Depth (ft): 0.19m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AMG 0.341 m/s	

Downstream View Physical Dimensions: .15, .08, .1, .12, .12, .

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 10.3	Length (ft): 20m	Avg. Depth (ft): 0.114m	Max. Depth (ft): 0.2m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AMG 0.479 m/s	

17sec 15sec 15sec 7.5m 7.5m 7.5m

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

% Cobble	10 % Gravel	90 % Sand	% Silt	% Mud/Clay	% Bedrock

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

NA

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine sediments	☒ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

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

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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: Adam Petty **Date:** 3/14/05

Organization: Tt-BET Position: Sci I

QC- Ann Marie Porter 3-14-05

AP

088. U
3/14/05
CLEAR CRK

088. D
3/14/05
CLEAR CRK

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 #: 089	Site Location Description: P BRIDGE
(Acc. 20ft) Site GPS Coordinates: 39.40882 / -094.3481	
Date & Time: 3/15/05 ; 6:00	Facility Name: HRCT WW ~~TREATMENT~~ LAGOON
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: SUNNY 40'S	Weather Conditions for Past 7 days: SUNNY ; 40'S
Photo Ids: Upstream: 64 or 1594C Downstream: 63 or 1593C	Other:

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ ~~Trapping~~ AR	☐ Fishing	☐ None of the above	☒ Other: Littering

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

~~ASSUMED activities based on location & conditions.~~ AR

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☐ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☒ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Trash				

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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Ac. Anne Marie Grotte 3-15-05

NL

Page Two – Data Sheet B for WBID # 089 **:**

089

9s 3m
10s 3m
8s 3m

Stream Morphology:

Upstream View Physical Dimensions: .08, .03, .05, .12, .03

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 6.5m	Length (ft): 20m	Avg. Depth (ft): 0.06m	Max. Depth (ft): 0.13m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~: AMC 0.33 m/s	

10s 14s 3m 3m
12s 3m

Downstream View Physical Dimensions: .25, .3, .3, .15, .15, .16

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 8.3m	Length (ft): X AMC 20m	Avg. Depth (ft): 0.22 m	Max. Depth (ft): 0.32m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~: AMC 0.25 m/s	

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

% Cobble	% Gravel	100 % Sand	% Silt	% Mud/Clay	% Bedrock

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

NA

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

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

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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: Adam Reitz **Date:** 3/15/05

Organization: TE-BLT Position: Sci. I

QC = Ann Marie Gretzer 3-15-05

NR

089 U
3/15/05
MIDDY FRK

089 D
3/15/05
MIDDY CRK

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 #: 090	Site Location Description:
Site GPS Coordinates: 39.41003 / -094.34835 (Acc. 21ft)	≈ 200 M USTRM OF 089; DOWNFRM HIGHWAY
Date & Time: 3/15/05 / 6:00	Facility Name: HOLT WASTE H2O LAGOON
Personnel: AMR, AMG	Permit Number:
Current Weather Conditions: Sunny 40's	Weather Conditions for Past 7 days: Sunny, 40's
Photo Ids: Upstream: ~~[illegible]~~ 65 or 1595C	Downstream: 66 or 1596C Other:

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ ~~Trapping~~ AR	☐ Fishing	☐ None of the above	☐ Other:

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

~~ASSUME ACTIVITY~~ AR

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slopes	☒ Other: HIGHWAY 93	

Evidence of Human Use*:

☒ Roads	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☒ ~~RV / ATV Tracks~~ AMG
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ 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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QC: Ann Marie Goltze 3-15-05

Page Two – Data Sheet B for WBID # 090 **:**

10S 3m
10S 3m
11S 3m

Stream Morphology:

Upstream View Physical Dimensions: .1, .28, .25, .1, .28

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 3.4m	Length (ft): 20m	Avg. Depth (ft): 0.2m	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AMG 0.29 m/s	

14S
13S 3m 3m
13S 3m

Downstream View Physical Dimensions: .08, .12, .1, .05, .1

☐ Riffle	Width (ft): 5.5m	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): ~~6.2m~~ AMG	Length (ft): 20m	Avg. Depth (ft): 0.09m	Max. Depth (ft): 0.2m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AMG 0.23 m/s	

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

% Cobble	10 % Gravel	80 % Sand	% Silt	10 % Mud/Clay	% Bedrock

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

NA

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☒ Musky	☐ Chemical	☐ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☒ Foam	☒ None AMG	☐ Other:

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

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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: Adam Reitz **Date:** 3/15/05

Organization: TK - BLT Position: Sec. I.

QC - [signature] 3-15-05

AR

090 U
3/15/05
MIDDY FRK

090 D
3/15/05
MIDDY FRK

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 #: 091	Site Location Description: @ BRIDGE ON NE 190TH ST.
Site GPS Coordinates: 39.43742 / -094.34815	
Date & Time: 3-15-05	Facility Name: HOLT WW LAGOON
Personnel: AVR - AMG	Permit Number:
Current Weather Conditions: SUNNY; 40'S	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 60 OR 1590C | Downstream: 61 OR 1591C	Other: 62 OR 1592C ALGAE 1592C

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ ~~Trapping~~ AR	☒ Fishing	☐ None of the above	☐ Other:

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

- BOX OF WORMS ON BANK
- ALGAE ON ROCKS (SEE PHOTOS)

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☐ Roads	☒ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Box of worms				

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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QC: [signature] 3-15-05

AR

Page Two – Data Sheet B for WBID # 091 :

Stream Morphology:

Upstream View Physical Dimensions: .55, .65, .9, .8, .6, .2

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 15m (est.)	Length (ft): 20 m	Avg. Depth (ft): 0.77 m	Max. Depth (ft): 1.0m
☒ Flow	Present? ☐ Yes ☒ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions: .25, .2, .41, .51, .5

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 20m	Length (ft): 20m	Avg. Depth (ft): 0.37 m	Max. Depth (ft): 0.55m
☒ Flow	Present? ☐ Yes ☒ No		Estimated (ft^3/sec):	

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

% Cobble	% Gravel	60 % Sand	10 % Silt	% Mud/Clay	30 % Bedrock

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

ALGAE ON ROCKS

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☒ Green	☒ Gray	☒ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ ~~None~~ AMC	☒ Other: Algae-floating

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

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Signed: Adam Netting **Date:** 3/15/05

Organization: TE - BLT Position: SCI. I.

QC = [signature] 3-15-05

AR

091 U
3/15/05
MUDDY CRK

091 D
3/15/05
MUDDY CRK

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

(AR-16H)

Missouri WBID #: C92	Site Location Description: @ BROOKE ~~[illegible]~~
Site GPS Coordinates: 39.45041/094.34225	
Date & Time: 3/15/05 / 3pm	Facility Name: Pilot Wm Lagoon
Personnel: AVR, ANG	Permit Number:
Current Weather Conditions: Sunny; 40s	Weather Conditions for Past 7 days:
Photo Ids: Upstream: ~~[illegible]~~ 59 or 1584C	Downstream: ~~[illegible]~~ 56 or 1586C; Other: ~~[illegible]~~ 58 or 1588C ALGAE; 57 or 1587C - ATV TRAIL 1588C 1587C

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ Trapping	☒ Fishing	☐ None of the above	☐ 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.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☒ Roads	☒ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☒ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Spray paint under bridge				

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

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QC - [illegible] 3-15-05

AR

Page Two – Data Sheet B for WBID # 092 **:**

8s 1.5m
8s 1.5m
9s 1.5m

Stream Morphology:

Upstream View Physical Dimensions: .08, .32, .35, .3, .11,

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 5m	Length (ft): 20m	Avg. Depth (ft): 0.23m	Max. Depth (ft): 0.38m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AME	0.06 m/s

8s 1m 1m
8s 1m
5s 1m

Downstream View Physical Dimensions: .15, .2, .2, .25, .2

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 5.5m	Length (ft): 20m	Avg. Depth (ft): 0.2	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): AME	0.05 m/s

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

% Cobble	50 % Gravel	40 % Sand	10 % Silt	% Mud/Clay	% Bedrock

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

Algae

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☒ Chemical	☐ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

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

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Signed: Adam Netts **Date:** 3/15/05

Organization: Te - BLT Position: Sci. I.

QC - [signature] 3-15-05

AR

092 U
3/15/05
MUDDY CRK

092 D
3/15/05
MUDDY CRK

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

(K=21')

Missouri WBID #: MUDDY CRK 093	Site Location Description: ~~GF~~ @ RD PP CROSSING
Site GPS Coordinates: 39.46009/094.33240	
Date & Time: 3/15/05; 1650 hrs	Facility Name: HUNT WW LAGOON
Personnel: AVR; AMG	Permit Number:
Current Weather Conditions: SUNNY; 40's	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 53 OR 1583C	Downstream: 55 OR 1585C	Other: 54 OR 1584C = ALGAE 1584C

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☒ ~~Trapping~~ AR	☒ ~~Fishing~~ AR	☐ None of the above	☐ Other:

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

~~ASSUMED ACTIVITIES~~ AR

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes	☐ Other:	

Evidence of Human Use*:

☐ Roads	☒ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☒ Other: Spray Paint				

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.

QC: [signature] 3-15-05

AR

Page Two – Data Sheet B for WBID # 093 **:**

Stream Morphology:

Upstream View Physical Dimensions: .1, .14, .2, .25, .2 10s 16s 1m 1m 14s 1m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 7m	Length (ft): 20m	Avg. Depth (ft): 0.18m	Max. Depth (ft): 0.25m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft³/sec): AMG 0.08m/s	

Downstream View Physical Dimensions: .2, .25, .11, .15, .2 25s 1m 30s 1m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Pool	Width (ft): 7.5m	Length (ft): 20m	Avg. Depth (ft): 0.18m	Max. Depth (ft): 0.26m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft³/sec): AMG 0.04m/s	

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

20 % Cobble	10 % Gravel	40 % Sand	% Silt	30 % Mud/Clay	% Bedrock

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

ALGAE / MOSS

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☒ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☒ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ 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: Adam Rettig **Date:** 3/15/05

Organization: TE - BLT Position: SCI. I.

[signature] 3-15-05

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MUDDY CRK

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 #: 93-REVISIT	Site Location Description: ROAD OVERPASS AT ROUTE PP
Site GPS Coordinates: N39.46017 W094.33231 45.4ft.	
Date & Time: 03-16-05 11040	Facility Name: HOLT WASTEWATER LAGOON
Personnel: CHAD BARBOUR, JERAMY ROBEEN	Permit Number:
Current Weather Conditions: 44°F, SUNNY	Weather Conditions for Past 7 days:
Photo Ids: Upstream: ~~1573~~ CCB 1572B Downstream: 1573B	Other:

Uses Observed*:

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☑ None of the above	☐ Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
RELATIVELY SHALLOW, NO RECREATIONAL USES OBSERVED.

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

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☑ Steep slopes	☑ Other: AGRICULTURE	

Evidence of Human Use*:

☑ Roads	☑ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ 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.

JTR 03/16/05

CCB

Page Two – Data Sheet B for WBID #93-REVISIT:

Stream Morphology:

Upstream View Physical Dimensions: 0.11, 0.21, 0.2, 0.11, .01m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 5.7m	Length (ft): 20m	Avg. Depth (ft): 0.13m	Max. Depth (ft): 0.21m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=22s; 4m=23s; 4m=19s	

FLOW= 0.19 m/s

Downstream View Physical Dimensions: 0.1, 0.11, 0.15, 0.20, 0.11m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 5.3m	Length (ft): 20m	Avg. Depth (ft): 0.13m	Max. Depth (ft): 0.20m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec): 4m=12s; 4m=15s; 4m=18s	

FLOW= 0.27 m/s

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

25	% Cobble		% Gravel	50	% Sand		% Silt	25	% Mud/Clay	% Bedrock

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

~~NONE~~ ALGAE GROWING ON ROCKS THROUGHOUT.

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☑ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	☐ None	☐ Other:
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☑ None	☐ 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: [signature] **Date:** ~~04~~ 03-16-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JTR- 03-16-05

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