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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)	HORSESHOE CREEK : 169-174
8-digit HUC:	10300101
Missouri WBID #:	3413
County:	LAFAYETTE
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)	38.98243 -094.10696
Downstream Coordinates: (UGS 84, ddd.ddddd)	39.03337 -094.11456
Discharger Facility Name(s):	OAK GROVE S WWTP
Discharger Permit Number(s):	MO-0106259
Number of Sites Evaluated:	6
Name of Surveyor and Telephone Number:	ADAM RETTIG: 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 Rettig **Date:** 3/29/05

* UNITS DD° MM.MMM

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 #: 169	Site Location Description: @ BRIDGE OUT OF GRAVEL RD OFF OF H.
Site GPS Coordinates: 39.02,002/-094.06874	
Date & Time: 3-18-05/10:30am	Facility Name: OAK GROVE SWMP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions:	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 24 on 1687 A Downstream: 22 on 1685A	Other: 23 on 1689A TRAIL

ARC 20ft.

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: TRAIL				

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.

Anne Marie Baker 3/18/05

AR

Page Two – Data Sheet B for WBID # 169 **:**

Stream Morphology:

Upstream View Physical Dimensions: .65, .6, .35, .45, .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): 5m	Length (ft): 20m	Avg. Depth (ft): 0.45m	Max. Depth (ft): 0.75m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): Too slow to measure	

Downstream View Physical Dimensions: .5, .5, .2, .3, .1 | m 5s, 7s, 8s m m m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 5m	Length (ft): 20m	Avg. Depth (ft): 0.32m	Max. Depth (ft): 0.55m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft^3/sec~~): Arm 0.15m/s	

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

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

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

Bright Green 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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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 Ratt **Date:** 3/18/05

Organization: TE-BG Position: Sci. I

Sara Marie Hatter 3-18-05

AR

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 #: 170	Site Location Description: @ BRIDGE ON DIRT ROAD NEAR HIGHWAY
Site GPS Coordinates: 39.01881 / -094.11015	
Date & Time: 3-18-05 / 11:00am	Facility Name: OAK GROVE SWWTP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions:	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 26 CR 1687A / Downstream: 25 CR 1688A	Other: 27 CR 1690A - CONSTRUCTION

Uses Observed*:

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

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

* Leaches in Stream
* CONSTRUCTION: LAYING SEWAGE PIPES TO INCREASE CAPACITY @ LOCAL FACILITY.

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: TRASH	

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 - CONSTRUCTION				

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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3-18-05

AR

Page Two – Data Sheet B for WBID # 170 :

Stream Morphology:

Down Ame stream ~~Upstream~~ View Physical Dimensions: .1, .2, .25, .2, .1 5s 5s 6s 1m 1m 1m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 3m	Length (ft): 20m	Avg. Depth (ft): 0.17m	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~ Ame: 0.19m/s	

Ame Upstream ~~Downstream~~ View Physical Dimensions: .05, .15, .35, .3, .25 4s, 4s, 4s 1m, 1m 1m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 5m	Length (ft): 20m	Avg. Depth (ft): 0.22m	Max. Depth (ft): 0.4m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft³/sec)~~ Ame: 0.25m/s	

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

% Cobble	20 % Gravel	50 % Sand	% Silt	30 % Mud/Clay	% Bedrock

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

Bright Green 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~~ Ame	☐ 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 Betty **Date:** 3/18/05

Organization: TE · BLT Position: SCS. I.

[signature] 3-18-05

AA

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2005 MAY 23 PM 2:58
WATER PROTECTION PROGRAM

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 #: 170 Revisit	Site Location Description: Unnamed road off of 40 & 70
ACC2644 Site GPS Coordinates: N 39.01880 W 094.11023	
Date & Time: 4-22-05 9:31	Facility Name: Oak Grove Sp EY 4-22-05 WWTP
Personnel: CB ELY	Permit Number:
Current Weather Conditions: Cloudy 54°	Weather Conditions for Past 7 days:
Photo Ids: Upstream: ~~1782A~~ CB 058 Downstream: ~~1783A~~ 059	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.)

There was trash through out stream

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: Construction site	

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)

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Page Two – Data Sheet B for WBID # 170 **:** Revisit

Stream Morphology:

Upstream View Physical Dimensions: in meters 0.20, 0.04, 0.26, 0.22, 0.14

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (~~ft~~ eq): 6.5 m	Length (~~ft~~ eq): 20 m	Avg. Depth (~~ft~~ eq): 0.172 m	Max. Depth (~~ft~~ eq): 0.26 m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): 3m : 4.66s 4s 5s 5s	= 0.64 m/s

Downstream View Physical Dimensions: in meters: 0.10, 0.30, 0.28, 0.18, 0.12

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (~~ft~~ eq): 3.5 m	Length (~~ft~~ eq): 20 m	Avg. Depth (~~ft~~ eq): 0.196 m	Max. Depth (~~ft~~ eq): 0.30 m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (~~ft^3/sec~~ eq): 3m / 6.66m 7s, 7s, 6s	= 0.45 m/s

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

0 % Cobble	20 % Gravel	40 % Sand	20 % Silt	20 % Mud/Clay	0 % 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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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:** 04/22/05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

EDY 4-22-05

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

(Acc. 31A)

Missouri WBID #: 171	Site Location Description: @ BRIDGE ON PAVED RD THAT PARALLELS HIGHWAY 70
Site GPS Coordinates: 39.01247 / 094.10184	
Date & Time: 3-18-05 / 11:30am	Facility Name: OAKGROVE SWWTP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: Sunny; 40s	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 29 or 1692A / Downstream: 28 or 1691A	Other: 30 or 1693A = ALGAE IN H2O

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.)

THIS H2O IS GROSS!

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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A Marie Hettke 3-18-05

AR

Page Two – Data Sheet B for WBID # 171 **:**

Stream Morphology:

1m 2s, 2s, 3s
1m 1m

Upstream View Physical Dimensions: .1, .2, .2, .2, .1

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 1.5m	Length (ft): 20m	Avg. Depth (ft): 0.16m	Max. Depth (ft): 0.22m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Ame 0.43m/s	

Downstream View Physical Dimensions:

☐ 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): 4m	Length (ft): 20m	Avg. Depth (ft): 0.4m	Max. Depth (ft): 0.6m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft³/sec): Too slow to measure	

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

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

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

Bright green 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~~ Ame	☐ 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: [signature] **Date:** 3/18/05

Organization: TE · BCT Position: SCE, J.

[signature] Marie Holtze 3-18-05

AL

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

(Acc. 27 ft)

Missouri WBID #: 172	Site Location Description: @BRIDGE ON GOLDENBELT RD.
Site GPS Coordinates: 39.00457/-094.10653	
Date & Time: 3-18-05/ 12:30pm	Facility Name: OAK GROVE S WWTP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: SUNNY; 50%	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 32 or 1695A Downstream: 31 or 1694A	Other:

Uses Observed*:

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

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

Dead fish in creek.

~~ASSUMED ACTIVITY BASED ON LOCATION + COND.~~ AVR

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:				

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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A Marie Goffer 3-18-05

Page Two – Data Sheet B for WBID # 172 **:**

Stream Morphology:

Upstream View Physical Dimensions: .9, .8, .6, .5, .45

☐ 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): 6m	Length (ft): 20m	Avg. Depth (ft): 0.65m	Max. Depth (ft): 1m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): Too Slow to measure	

Downstream View Physical Dimensions: .2, .3, .25, .15, .05 8, 9, 9s 1m 1m 1m

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 6m	Length (ft): 20m	Avg. Depth (ft): 0.19m	Max. Depth (ft): 0.3m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated ~~(ft^3/sec)~~ AMC: 0.12 m/s	

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

% Cobble	60 % Gravel	20 % Sand	% Silt	20 % Mud/Clay	% Bedrock

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

Flocculent 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: Flocculent Algae
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: [signature] **Date:** 3/18/05

Organization: TK-DCT Position: Sci. I.

[signature] 3-18-05

AR

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

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

(Acc. 20 ft.)

Missouri WBID #: 173	Site Location Description: SITE IS WHERE @ COLDASACK (SP) @ END OF ROAD; ATV TRAIL CROSSES.
Site GPS Coordinates: 38.99653/-094.11091	
Date & Time: 3-18-05 / 1:00pm	Facility Name: OAK GROVE JUNTP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: Sunny / 60's	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 34 or 1697A | Downstream: 33 or 1696A	Other: 35 or 1698A = ATV TRAIL CROSSING

Uses Observed*:

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

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

~~ASSUMED ACTIVITIES BASED ON LOCATION · COND.~~ AVR

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/SUBURBAN	☐ 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.

A Mari Golter 3-18-05

AR

Page Two – Data Sheet B for WBID # 173 **:**

1m 6s 6s 5s

Stream Morphology:

Upstream View Physical Dimensions: .05, .1, .1, .1, .09, .05

☒ Riffle	Width (ft): 5.5m	Length (ft): 20m	Avg. Depth (ft): 0.08m	Max. Depth (ft): 0.1m
☐ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Amt 0.18 m/s	

5s, 7s, 8s 1m 1m 1m

Downstream View Physical Dimensions: .1, .19, .2, .25, .1

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run	Width (ft): 4m	Length (ft): 20m	Avg. Depth (ft): 0.17m	Max. Depth (ft): 0.25m
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (~~ft³/sec~~): Amt 0.15m/s	

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

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

*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 Belts **Date:** 3/18/05

Organization: TE-BLT Position: SCI. S.

[signature] 3-18-05

AL

(Acc. left)

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 #: 174	Site Location Description: @ BRIDGE NEAR HORSE SHOE CRK ESPDATE
Site GPS Coordinates: 38.98243/-094.10696	
Date & Time: 3-18-05/ 1:40pm	Facility Name: OAK VILLE SWWTP
Personnel: AVR, AMG	Permit Number:
Current Weather Conditions: Sunny - 50s	Weather Conditions for Past 7 days:
Photo Ids: Upstream: 37 or 1700A / Downstream: 36 or 1699A	Other: 38 or 1701A = SPRAY PAINT

Uses Observed*:

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

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

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

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)

*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.

[signature] 3-18-05

AR

Page Two – Data Sheet B for WBID # 174 :

Stream Morphology:

Upstream View Physical Dimensions: .2, .1, .15, .15, .1

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Run Amt	Width (ft): 5.5m	Length (ft): 20m	Avg. Depth (ft): 0.14m	Max. Depth (ft): 0.2m
☒ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): Too slow to measure	

Downstream View Physical Dimensions: .2, .3, .4, .4, .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): 4m	Length (ft): 20m	Avg. Depth (ft): 0.3m	Max. Depth (ft): 0.45m
☒ Flow	Present? ☒ Yes ☐ No		Estimated (ft^3/sec): Too slow to measure	

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

~~80~~ % Cobble	20 % Gravel	% Sand	20 % Silt	% Mud/Clay	% Bedrock

60 Amt

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.

*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.

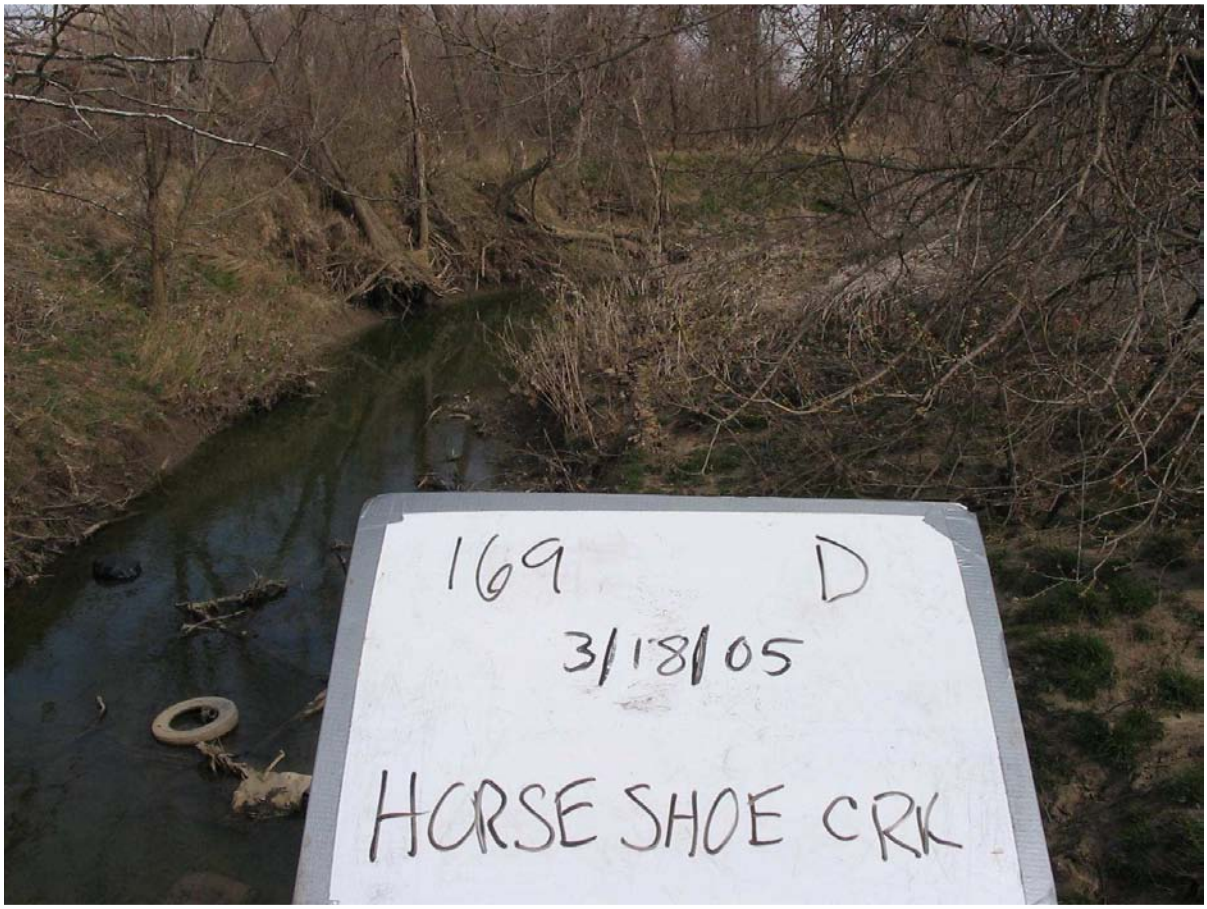
Signed: Adam [signature] **Date:** 3/18/05

Organization: TE - OLT Position: Sci. I.

[signature] 3-18-05

AA

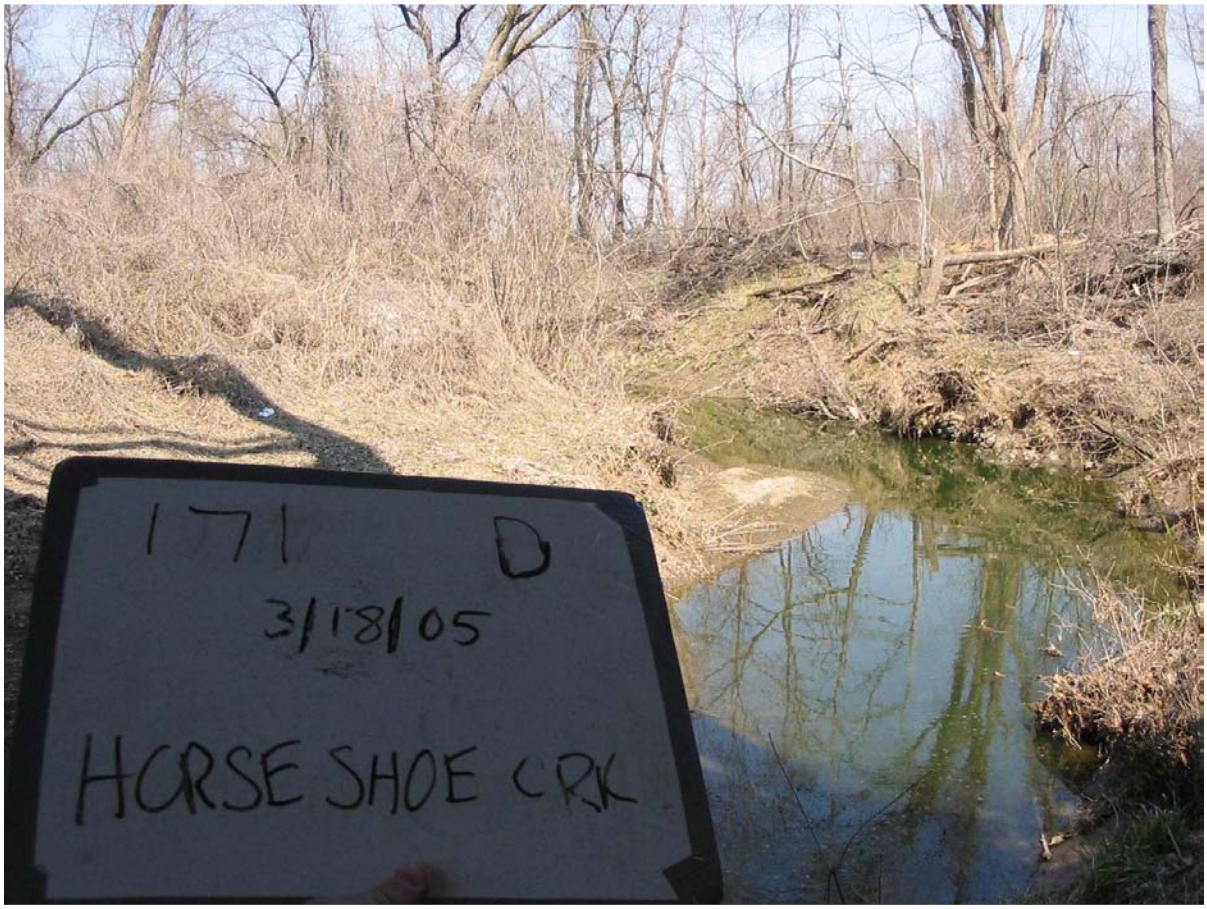
169 U
3/18/05
HORSE SHOE CRK

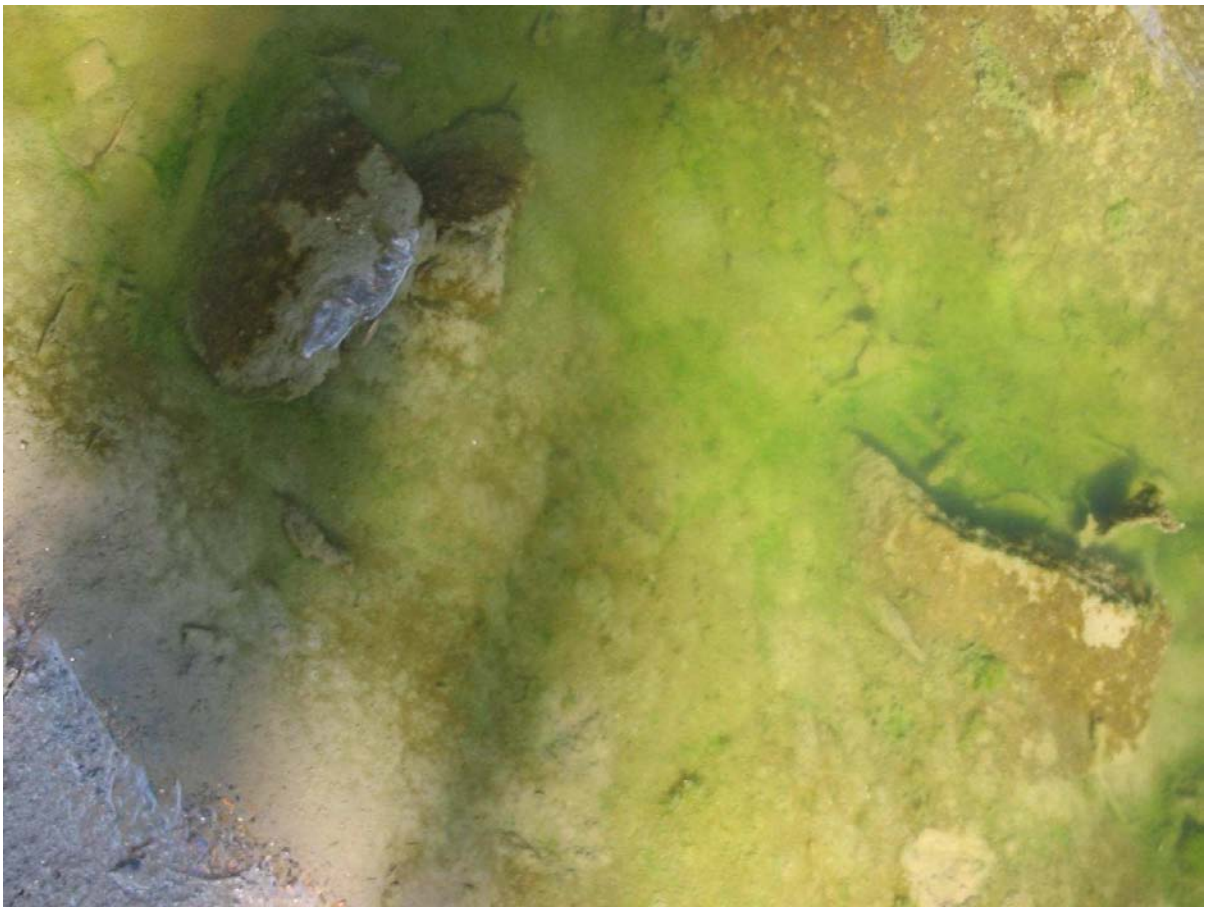

169 D
3/18/05
HORSE SHOE CRK

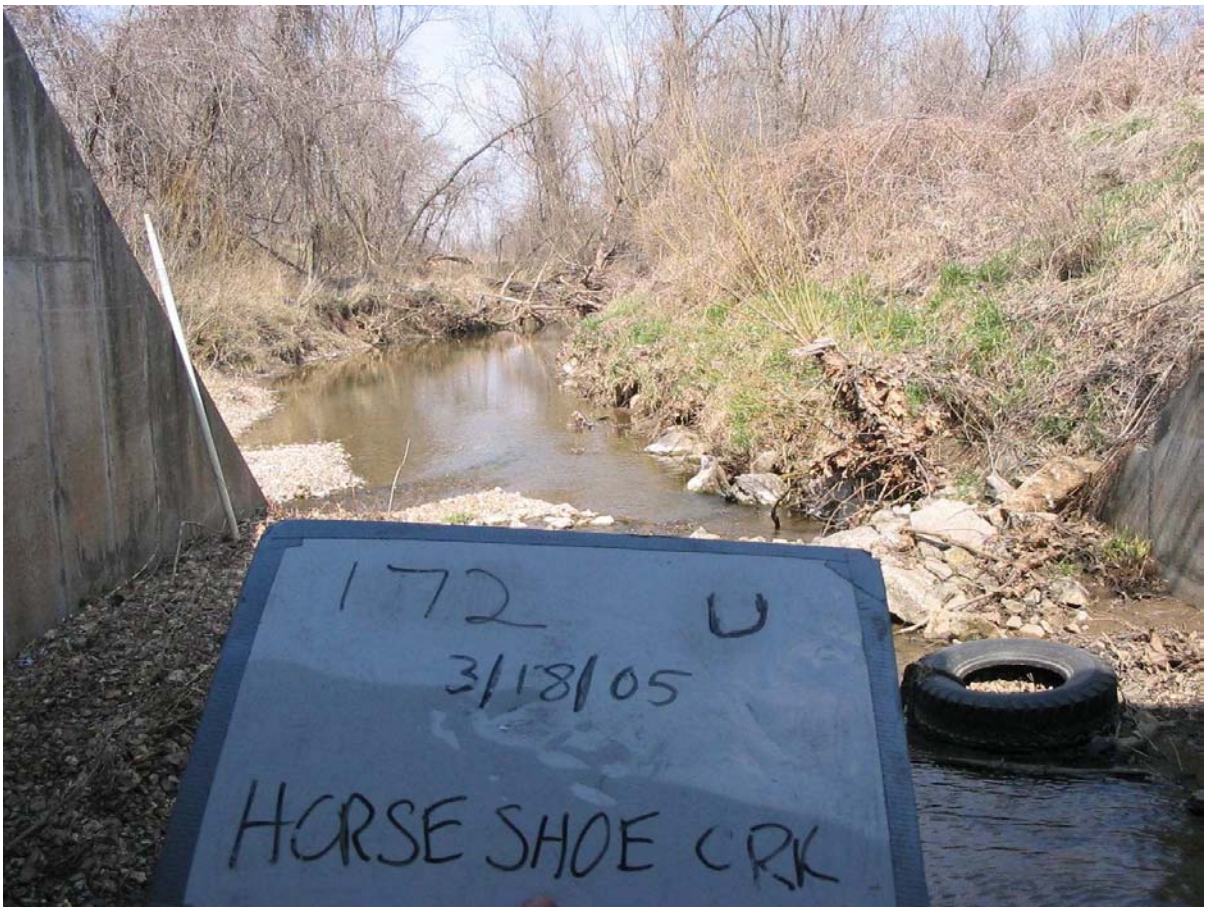
170 U
3/18/05
HORSE SHOE CRK

170 D
3/18/05
HORSE SHOE CRK

171 U
3/18/05
HORSE SHOE CRK

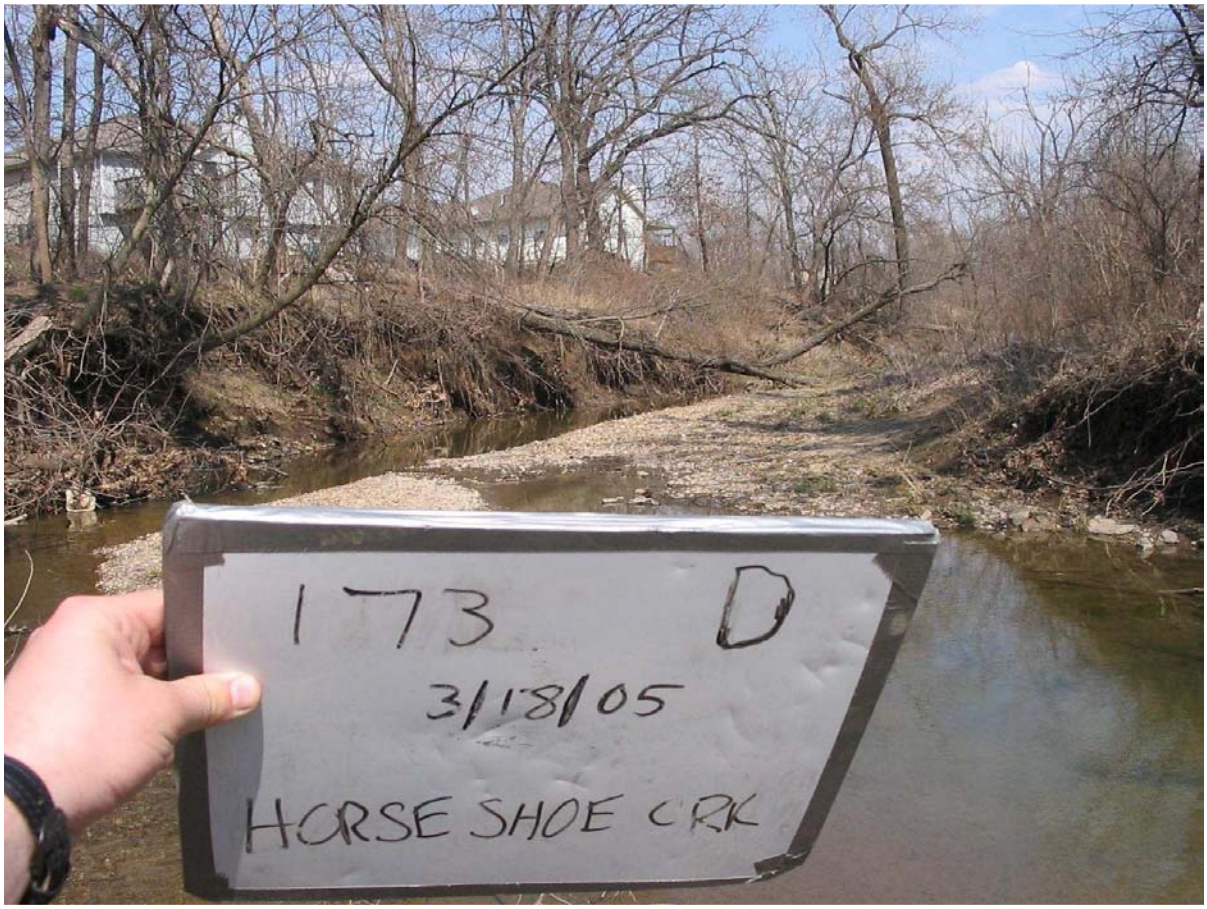

171 D
3/18/05
HORSE SHOE CRK



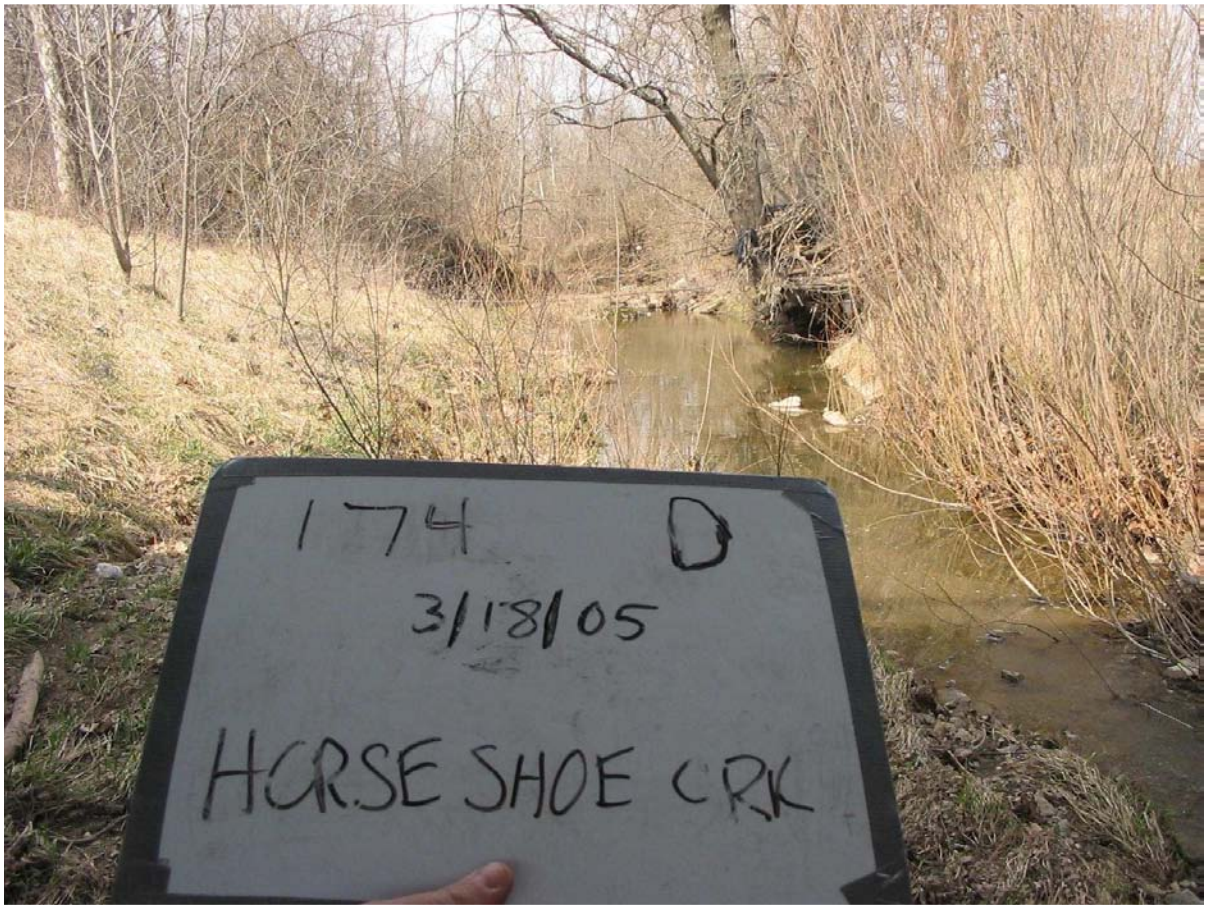

172 U
3/18/05
HORSE SHOE CRK

172 D
3/18/05
HORSE SHOE CRK

173 U
3/18/05
HORSE SHOE CRK


173 D
3/18/05
HORSE SHOE CRK

174 U
3/18/05
HORSE SHOE CRK


174 D
3/18/05
HORSE SHOE CRK