



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1002 Honey Creek

Submitted by
SES, Inc.

To

Missouri Department of Natural Resources
Water Protection Program

Date Received: June 3, 2007

Field Data Sheets for Recreation Use Stream Surveys
Data Sheet A - Water Body Identification
(For water body being surveyed)

Water Body Information

Water Body Name: Honey Creek	WBID: 1002
8 digit HUC code: 10300102	County: Cole
Upstream Legal Description 43N 12W 28	
Downstream Legal Description 43N 12W 10	
Number of Sites Evaluated 3	
List all site numbers, listed upstream to downstream	1,3,2

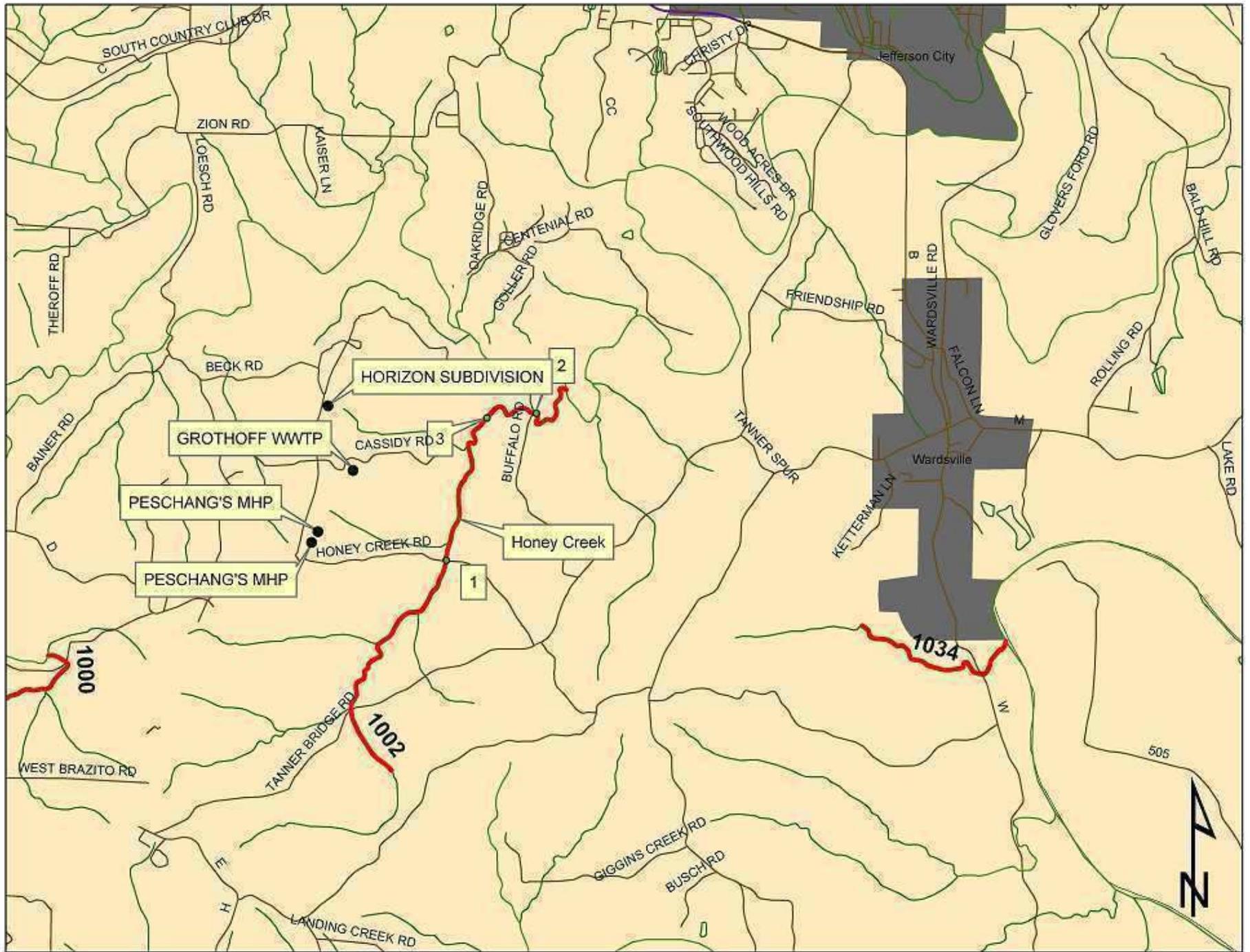
Discharger Facility Information

Discharger Facility Name(s): CU - Grothoff WWTP, Horizon Subdivision, Peschang's MHP
Discharger Permit Number(s): MO0095656, MO0088498, MO0112852

UAA Surveyor

Name of Surveyor: Gilisa Gould	Telephone Number: (913)307-0054 Ext. 19
Organization/Employer: SES, Inc.	
Position: Field Team Leader	

Signed: _____ Date: _____



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

WBID 1002
Site # 1

Date and Time: 5/16/2007 9:10

Current Weather Conditions clear

Weather Conditions for Past 10 days: Rained about 1 inch total in the area

Drought Conditions? No

Site Location (e.g. road crossing)

GPS Mark: 26

Upstream Photo 53 Downstream Photo 54

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	None of the Above	Other	

Surrounding Conditions

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	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	None of the Above

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 1

Mark # 26

1002_Honey Creek_Cole

Depth

Transect 1	0.00
Substrate:	0.00
cobble/gravel	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
run	0.00
Channel Width:	0.10
7 yards	0.20
0.00	0.20
Transect 2	0.00
Substrate:	0.00
cobble/gravel	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.10
pool	0.05
Channel Width:	0.10
8 yards	0.05
0.03	0.05
Transect 3	0.05
Substrate:	0.05
bedrock/gravel	0.20
Water Clarity:	0.15
clear	0.15
Channel Feature:	0.25
pool	0.20
Channel Width:	0.10
7 yards	0.20
0.15	0.15
Transect 4	0.10
Substrate:	0.20
cobble/gravel	0.10
Water Clarity:	0.15
clear	0.50
Channel Feature:	0.10
pool	0.15
Channel Width:	0.20
9 yards	0.10
0.13	0.05

Transect 5	0.05
Substrate:	0.05
cobble/gravel	0.10
Water Clarity:	0.05
clear	0.15
Channel Feature:	0.15
riffle	0.10
Channel Width:	0.15
8 yards	0.05
0.08	0.00
Transect 6	0.10
Substrate:	0.20
cobble/gravel	0.15
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.00
riffle	0.10
Channel Width:	0.15
10 yards	0.10
0.10	0.05
Transect 7	0.00
Substrate:	0.05
gravel/cobble	0.00
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.05
riffle	0.00
Channel Width:	0.10
10 yards	0.20
0.05	0.10
Transect 8	0.05
Substrate:	0.10
cobble/gravel	0.10
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.15
riffle	0.05
Channel Width:	0.00
8 yards	0.05
0.05	0.05

Transect 9	0.05
Substrate:	0.10
cobble/gravel	0.10
Water Clarity:	0.05
clear	0.00
Channel Feature:	0.00
riffle	0.05
Channel Width:	0.05
9 yards	0.00
0.05	0.00
Transect 10	0.00
Substrate:	0.15
cobble/gravel	0.20
Water Clarity:	0.20
clear	0.15
Channel Feature:	0.20
pool	0.20
Channel Width:	0.15
7 yards	0.15
0.15	0.10
Transect 11	0.10
Substrate:	0.20
coble/gravel/sand	0.15
Water Clarity:	0.15
clear	0.20
Channel Feature:	0.20
pool	0.20
Channel Width:	0.20
10 yards	0.15
0.20	0.20

Site Median	Site Maximum
0.10	0.50

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

WBID 1002
 Site # 2

Date and Time: 5/25/2007 16:45

Current Weather Conditions cloudy, rain

Weather Conditions for Past 10 days: Rained about 1 inch total in the area

Drought Conditions? No

Site Location (e.g. road crossing) Buffalo Rd. crossing

GPS Mark: 23

Upstream Photo 58 Downstream Photo 300

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<i>None of the Above</i>	Other	

Surrounding Conditions

City/county parks	Playgrounds	<i>MDC conservation lands</i>	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other: <i>None of the Above</i>	

WBID # 1002 **Site #** 2
Mark # 23 **Dissolved Oxygen (ppm)** 5.2
Upstream Views Physical Dimensions: Is there any water present at this view? yes

If so, is there an obvious current? yes

Select one of the following channel features:

% of Channel Feature

Riffle	27				
Run	0				
Pool	73				

Downstream View's Physical Dimensions: Is there any water present at this view? yes

If so, is there an obvious current? yes

Substrate:

% Cobble	% Gravel	% Sand	% Silt
11	47	42	0
% Mud/Clay	% Bedrock		
0	0		

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

none

Water Characteristics

Odor Sewage Musky Chemical **None** Other
 Color **Clear** Green Gray Milky Other
 Bottom Deposit Sludge Solids Fine Sed. **None** Other
 Surface Deposit Oil Scum Foam **None** Other

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 2

Mark # 23

1002_Honey Creek_Cole

	Depth
Transect 1	0.00
Substrate:	0.05
cobble/sand	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.05
2 yards	0.05
0.08	0.00
Transect 2	0.05
Substrate:	0.30
cobble/sand	0.45
Water Clarity:	0.50
clear	0.50
Channel Feature:	0.45
pool	0.40
Channel Width:	0.20
3 yards	0.00
0.35	0.00
Transect 3	0.10
Substrate:	0.20
gravel/sand	0.30
Water Clarity:	0.40
clear	0.45
Channel Feature:	0.55
pool	0.60
Channel Width:	0.50
4 yards	0.45
0.43	0.20
Transect 4	0.05
Substrate:	0.15
gravel/sand	0.30
Water Clarity:	0.45
clear	0.50
Channel Feature:	0.45
pool	0.40
Channel Width:	0.35
5 yards	0.30
0.33	0.30

Transect 5	0.10
Substrate:	0.30
gravel/sand	0.35
Water Clarity:	0.40
clear	0.40
Channel Feature:	0.30
pool	0.20
Channel Width:	0.15
3 yards	0.10
0.25	0.05
Transect 6	0.05
Substrate:	0.20
gravel/sand	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.05
pool	0.20
Channel Width:	0.30
10 yards	0.05
0.05	0.10
Transect 7	0.00
Substrate:	0.05
gravel/sand	0.15
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.30
pool	0.30
Channel Width:	0.30
3 yards	0.30
0.23	0.10
Transect 8	0.00
Substrate:	0.00
gravel	0.00
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.10
2 yards	0.15
0.08	0.15

Transect 9	0.05
Substrate:	0.20
gravel	0.20
Water Clarity:	0.20
clear	0.30
Channel Feature:	0.35
pool	0.30
Channel Width:	0.15
4 yards	0.10
0.20	0.05
Transect 10	0.00
Substrate:	0.05
gravel	0.10
Water Clarity:	0.10
clear	0.20
Channel Feature:	0.30
pool	0.35
Channel Width:	0.50
4 yards	0.45
0.25	0.40
Transect 11	0.00
Substrate:	0.00
gravel/sand	0.00
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.10
riffle	0.05
Channel Width:	0.00
2 yards	0.00
0.00	0.00

Site Median	0.15	Site Maximum	0.60
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Field Data Sheets for Recreational Use Stream Surveys
Data Sheet B - Site Characterization
(must be completed for each site)

WBID 1002
 Site # 3

Date and Time: 5/16/2007 11:00

Current Weather Conditions clear/sunny

Weather Conditions for Past 10 days: Rained about 1 inch total in the area

Drought Conditions? No

Site Location (e.g. road crossing)

GPS Mark: 28

Upstream Photo 59 Downstream Photo 60

Uses Observed (Uses actually observed at time of survey) Circle

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	None of the Above	Other	

Surrounding Conditions

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	None of the Above	Other	

Indications of Human Use

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	None of the Above

Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)
(Median Depth Shown in Bold)

Site # 3

Mark # 28

1002_Honey Creek_Cole

		Depth	
Transect 1		0.00	
Substrate:		0.05	
cobble/gravel		0.00	
Water Clarity:		0.00	
clear		0.05	
Channel Feature:		0.05	
riffle		0.00	
Channel Width:		0.10	
8 yards		0.15	
	0.05	0.10	
Transect 2		0.05	
Substrate:		0.20	
cobble/gravel		0.20	
Water Clarity:		0.35	
clear		0.55	
Channel Feature:		0.50	
pool		0.20	
Channel Width:		0.00	
10 yards		0.00	
	0.20	0.00	
Transect 3		0.05	
Substrate:		0.10	
cobble/gravel		0.10	
Water Clarity:		0.00	
clear		0.00	
Channel Feature:		0.00	
pool		0.00	
Channel Width:		0.20	
11 yards		0.20	
	0.08	0.15	
Transect 4		0.00	
Substrate:		0.05	
gravel/cobble		0.00	
Water Clarity:		0.05	
clear		0.10	
Channel Feature:		0.10	
pool		0.15	
Channel Width:		0.10	
11 yards		0.10	
	0.08	0.05	
Transect 5		0.05	
Substrate:		0.05	
cobble/gravel		0.00	
Water Clarity:		0.05	
clear		0.05	
Channel Feature:		0.05	
riffle		0.15	
Channel Width:		0.15	
4 yards		0.05	
	0.05	0.00	
Transect 6		0.00	
Substrate:		0.15	
cobble/gravel		0.25	
Water Clarity:		0.25	
clear		0.20	
Channel Feature:		0.20	
pool		0.25	
Channel Width:		0.30	
4 yards		0.35	
	0.25	0.40	
Transect 7		0.00	
Substrate:		0.10	
sand/cobble/gravel		0.15	
Water Clarity:		0.20	
clear		0.30	
Channel Feature:		0.50	
pool		0.65	
Channel Width:		0.65	
8 yards		0.55	
	0.28	0.25	
Transect 8		0.05	
Substrate:		0.10	
gravel		0.10	
Water Clarity:		0.10	
clear		0.20	
Channel Feature:		0.20	
pool		0.20	
Channel Width:		0.25	
19 yards		0.00	
	0.10	0.05	
Transect 9		0.05	
Substrate:		0.00	
gravel		0.05	
Water Clarity:		0.05	
clear		0.20	
Channel Feature:		0.40	
pool		0.60	
Channel Width:		0.45	
8 yards		0.30	
	0.13	0.05	
Transect 10		0.05	
Substrate:		0.05	
gravel/cobble		0.15	
Water Clarity:		0.25	
clear		0.25	
Channel Feature:		0.25	
pool		0.20	
Channel Width:		0.15	
4 yards		0.10	
	0.15	0.05	
Transect 11		0.10	
Substrate:		0.20	
cobble/gravel		0.30	
Water Clarity:		0.25	
clear		0.30	
Channel Feature:		0.25	
pool		0.25	
Channel Width:		0.20	
4 yards		0.20	
	0.23	0.15	
Site Median		0.10	
Site Maximum		0.65	

WBID# 1002



Site# 1 Photo ID# 53, Upstream



Site# 1 Photo ID# 54, Downstream



Site# 2 Photo ID# 58, Upstream



Site# 2 Photo ID# 300, Downstream

WBID# 1002



Site# 3 Photo ID# 59, Upstream



Site# 3 Photo ID# 60, Downstream

Postmark Date	Date Rec'd	First Name	Last Name	City	State	Zip	Phone	County	WB Name	WBID #	General Comments
8/22/2005	8/23/2005	Chuck	Campbell (with 12 more signatures)	Jefferson City	MO	65101	573-496-3820	Cole	Honey Creek	1002	Opposed to the exemption of WBCR. Family and friends swim in 4 ft. pools up stream of Buffalo Road Bridge. We fish the stream. "I ask that you protect my family's health. I support the fishable/swimable goal of the Clean Water Act."
7/25/2005	e-mail	Scott	Goodin	N/A	N/A	N/A	N/A	Cole	Honey Creek	1002	Stated that Honey Creek has been used for WBCR in the past 15 years.
8/24/2005	e-mail	William	Reeves, Ph.D.	Webster Groves	MO	63119		Cole	Honey Creek	1002	UAA 0199: unlikely time for WBCR, no hydrological study, no water quality sampling, no interviews, study of at least one year is necessary
8/22/2005	8/22/2005	Roy	Williford	Jefferson City	MO	65202	573-522-2741	Cole	Honey Creek	1002	His son and friends swam in pool 3-4 ft. deep, 100 yds US from Bridge on Honey Cr. Rd. Wants it to be considered WBCR.