Use Attainability Analysis

for

WBID 0622 Barber Creek

Submitted by
Missouri Department of Natural Resources Staff

To
Missouri Department of Natural Resources
Water Protection Program

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WATER PROTECTION PROGRAM

Field Data Sheets for Recreational Use Stream Surveys

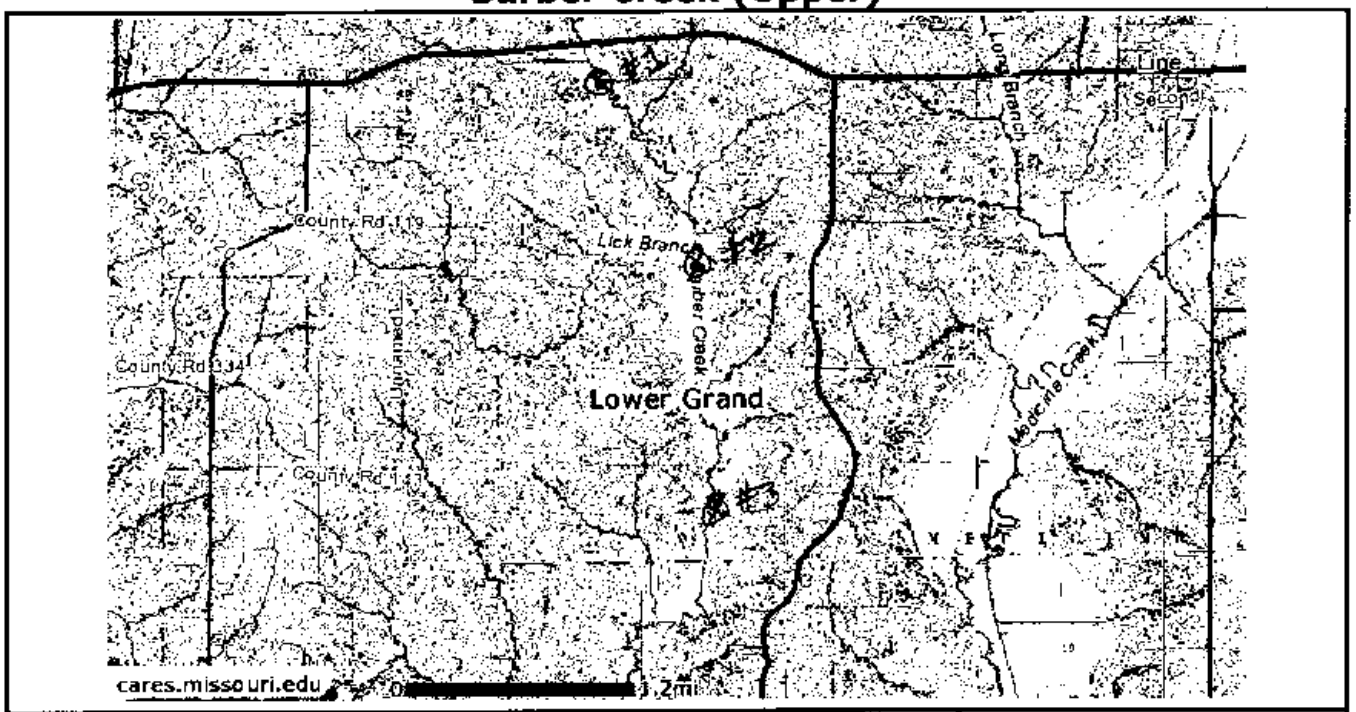
Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad):	Barber Creek
8-digit HUC:	10280103
Missouri WBID #:	0622
County:	Putnam & Sullivan
Upstream Legal Description:	T65N R22W S.2
Downstream Legal Description:	T64N R22W S.1
Upstream Coordinates:	N: 40.46328° W: 93.34763°
Downstream Coordinates:	N: 40.38981° W: 93.33092°
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	4
Name of Surveyor and Telephone Number:	Wyn Kelley 573/884-3440
Organization:	MDNR
Position:	Soil 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: Wyn Kelley Date: 7/7/05

Barber Creek (Upper)



Legend

Roads and Highways

- Interstate
- U.S. Highway
- State Numbered Highway
- State Lettered Highway
- Principal Road
- Road or Street

Public Land Survey Lines

- Section Boundary
- Land Grant Boundary
- Township Boundary
- State Boundary
- Artificial Boundary

1:24,000 Rivers and Streams

- Perennial Stream/River
- Intermittent Stream/River
- Artificial Path (Approx. Centerline)
- Undifferentiated Stream/River
- Canal or Ditch
- Other Hydrologic Feature

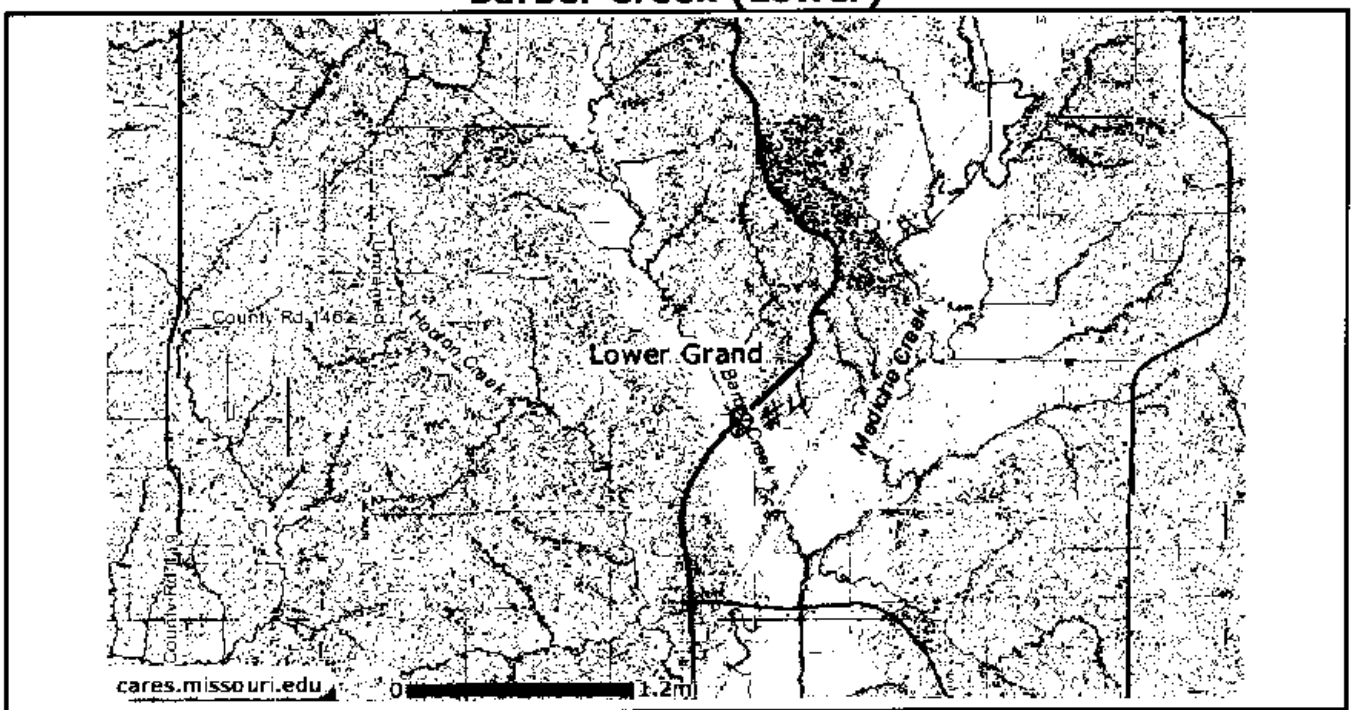
8 Digit Hydrologic Units

1:24,000 USGS Topographic Maps

Location Map

Map prepared by:
http://cares.missouri.edu, 7/6/2005.

Barber Creek (Lower)



Legend

Roads and Highways

- Interstate
- U.S. Highway
- State Numbered Highway
- State Lettered Highway
- Principal Road
- Road or Street

Public Land Survey Lines

- Section Boundary
- Land Grant Boundary
- Township Boundary
- State Boundary
- Artificial Boundary

1:24,000 Rivers and Streams

- Perennial Stream/River
- Intermittent Stream/River
- Artificial Path (Approx. Centerline)
- Undifferentiated Stream/River
- Canal or Ditch
- Other Hydrologic Feature

8 Digit Hydrologic Units

1:24,000 USGS Topographic Maps

Location Map

Map prepared by:
http://cares.missouri.edu, 7/6/2005.

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 #: 0622 - 01	Site Location Description:
Site GPS Coordinates: N: 46.46328° W: 93.34763°	
26 ft Date & Time: 7/7/05 10:45 a.m.	Facility Name:
Personnel: Wyn Kelley	Permit Number:
Current Weather Conditions: hot + dry	Weather Conditions for Past 7 days: hot + dry (1" rain)
Photo Ids: Upstream: 0622U-01 #1 / Downstream: 0622D-01 #2	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.)

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 streambank	☐ Other:	

Evidence of Human Use*:

☑ Roads (unnamed dirt road w/wooden bridge)	☐ 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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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID #0622-01: Data Sheet B - Site Characterization

Stream Morphology:

Upstream 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): 5	Length (ft): 10	Avg. Depth (ft): 0.33	Max. Depth (ft): 0.5
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

Downstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 4	Length (ft): 30	Avg. Depth (ft): 0.2	Max. Depth (ft): 0.33
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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

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

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

N/A

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Murky.
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.

several small fish observed

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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: 7/7/05

Organization: MDNR Position: Soil Scientist

0622_001_US

0622_001_DS

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 #: 0622-02	Site Location Description: Barber Creek
Site GPS Coordinates: N: 40.44937° W: 93.33832° (19 ft)	
Date & Time: 7/7/05 11:15 a.m	Facility Name:
Personnel: Wyn Kelley	Permit Number:
Current Weather Conditions: hot & dry	Weather Conditions for Past 7 days: hot & dry (1" rain)
Photo Ids: Upstream: 0622U-02 #3 Downstream: 0622D-02 #4	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.)

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 along roadway	☑ Steep slopes streambanks	☐ Other:	

Evidence of Human Use*:

☑ Roads (194th St Bridge crossing)	☐ 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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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID # 0622-02 Data Sheet B - Site Characterization

Stream Morphology:

Upstream View Physical Dimensions:

☐ Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Run	Width (ft): 4	Length (ft): 60	Avg. Depth (ft): 0.2	Max. Depth (ft): 0.33
☐ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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): 4	Length (ft): 20	Avg. Depth (ft): 0.33	Max. Depth (ft): 0.5
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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

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

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

N/A

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other:
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Murky
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.

some trash observed (soda can, scrap metal?, empty salt bag)

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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: 7/7/05

Organization: MDNR Position: Soil Scientist

0622_002_US

0622_002_DS

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 #: 0622-03	Site Location Description: Barber Creek
Site GPS Coordinates: N: 40.43682° W: 93.33619°	
Date & Time: 7/7/05 11:30 a.m.	Facility Name:
Personnel: Wyn Kelley	Permit Number:
Current Weather Conditions: hot+dry	Weather Conditions for Past 7 days: hot+dry (1" rain)
Photo Ids: Upstream: 0622U-03 #5 / Downstream: 0622D-03 #6	Other:

15 ft

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 streambank	☐ Other:	

Evidence of Human Use*:

208th st. Bridge crossing

☑ 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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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID #0622-03: Data Sheet B - Site Characterization

Stream Morphology:

Upstream 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): 15	Length (ft): 12	Avg. Depth (ft): 0.6	Max. Depth (ft): 0.9
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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): 6	Length (ft): 25	Avg. Depth (ft): 0.4	Max. Depth (ft): 1.0
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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

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

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

N/A

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☑ None	☐ Other: –
Color:	☐ Clear	☐ Green	☐ Gray	☐ Milky	☑ Other: Murky.
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.

several small fish observed

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Signed: [signature] Date: 7/7/05

Organization: MDNR Position: Soil Scientist

0622_003_US

0622_003_DS

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 #: 0622-04	Site Location Description: Barber Creek
Site GPS Coordinates: N: 40.38981° W: 93.33092°	
Date & Time: 7/7/05 12:00 p.m.	Facility Name:
Personnel: Wyn Kelley	Permit Number:
Current Weather Conditions: hot & dry	Weather Conditions for Past 7 days: hot & dry (1" rain)
Photo Ids: Upstream: 0622A-04 #7 / Downstream: 0622D-04 #8	Other: 0622E-04 #9

15 ft

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: N/A	

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:				

Hwy 139 bridge crossing

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

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Field Data Sheets for Recreational Use Stream Surveys

Page Two – WBID #0622-04: Data Sheet B - Site Characterization

Stream Morphology:

Upstream 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): 12	Length (ft): 40	Avg. Depth (ft): 1.0	Max. Depth (ft): 2.0
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

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): 15	Length (ft): 40	Avg. Depth (ft): 1.5	Max. Depth (ft): 2.5
☑ Flow	Present? ☑ Yes ☐ No		Estimated (ft^3/sec):	

Substrate*: (These values should add up to 100%.) based on downstream pool

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

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

N/A

Water Characteristics*: (Mark all that apply.)

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

discolored water draining into downstream pool (see photo 0622E-04)

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

many small fish observed

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Organization: MDNR Position: Soil Scientist

0622_004_US

0622_004_DS

0622_004_US