Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 1615 Charette Creek

Submitted by
MEC Water Resources

To
Missouri Department of Natural Resources
Water Protection Program

On
December 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):	Charrette CR
Missouri Water Body Identification (WBID) Number:	1615
8-digit HUC: 20080114	County: Warren
Upstream Legal Description (from Table H):	9, 46N, 1W
Downstream Legal Description(from Table H):	24, 46N, 2W
Number of sites evaluated	3
List all sites numbers, listed consecutively upstream to downstream: Site 1 = Meadow Valley Way Site 3 = 100 meters dN Stream site 2 Site 2 = Stracks Church Rd	

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

Discharger Facility Name(s):	Wildwood Hills Subd.
Discharger Permit Number(s):	mo 0087955

III. UAA Surveyor (please print legibly)

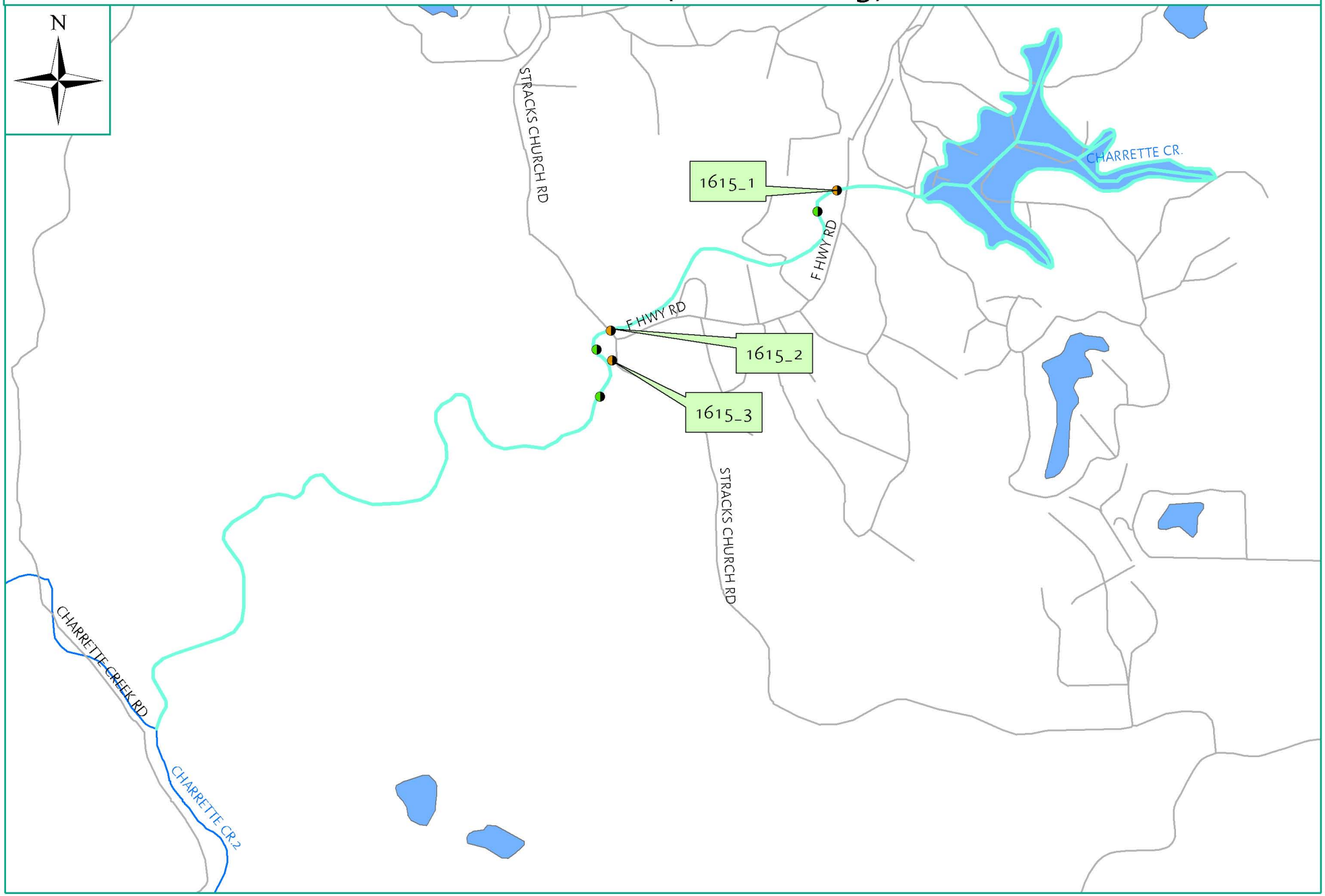
Name of Surveyor Renee Martin	Telephone Number: 573-875-7844
Organization/Employer: AE Solutions	
Position: Env. Specialist	

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

Signed: Renee Martin **Date:** 10/01/07

RMC 10-16-07

Charrette Cr. (WBID 1615)



Upstream Boundary

Downstream Boundary

Miles

0 0.1 0.2 0.4 0.6 0.8 1

WBID # 1615
Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization
(must be completed for each site)

Date & Time: 10/01/07 1200	Site Location Description (e.g., road crossing): Meadow Valley Way.
Personnel (Data Collectors): JH/JF	
Current Weather Conditions: Clear	Facility Name: Wildwood Hills Subdivision
Weather Conditions for Past 10 days: rain/clear	Permit Number: MD 0087955
Drought Conditions?: No drought ☒; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site ~~01~~ 11	Easting (UTM X): 4291586	Northing (UTM Y): 669704	Horizontal Accuracy: (EPE / FOM / PDOP) 25 ~~Meters~~ cm ~~ft~~
Site 01 2m	Easting (UTM X): 4291705	Northing (UTM Y): 669813	Horizontal Accuracy: (EPE / FOM / PDOP) 20 ~~Meters~~ cm ~~ft~~

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101-301	Upstream	101-302	downstream	101-303	Beaver dam @ Trans 08
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1615
Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☐ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:

Comments:
none

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other: community nature trail that follows creek.
~~none~~

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

10 % Cobble	15 % Gravel	25 % Sand	% Silt	50 % Mud/Clay	% Bedrock

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

Water Characteristics*: (Mark all that apply.)

Odor:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
Color:	☒ Clear	☐ Green	☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☒ Sludge (1)	☒ Solids	☒ Fine sediments	☐ None	☐ Other: (1) deep muck
Surface Deposit:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

*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.

WBID # 1615
Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

Private community

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Tech

RHC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1615 Site #: 1615_01 (WBID_Site#)

Estimated Channel Incision: 0.5 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4291705 UTM Y: 0669813
Horizontal Accuracy Estimate (GPS Data Quality): +/- 20 (feet)

GPS Location (taken at transect 11):
UTM X: 4291586 UTM Y: 0669704
Horizontal Accuracy Estimate (GPS Data Quality): +/- 25 (feet)

Average Stream Width: 6.7 (meters) Length of Survey Segment: 150 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JH / JF

Dissolved Oxygen

Date: 10/01/07 Time: 1200

Dissolved Oxygen: 4.67 (mg/L)

Dissolved Oxygen: 51.5 (% sat)

Specific Cond: 424.4 (µS/cm)

Water Temp.: 19.8 (°C)

Transect Cross Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0.20	0	0.20	0	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.41	0.11	0.59	0.52	0.46	0.28	0.52	0.45	0.66	0.28	0.67	0.35	0.80	0.50	1.10	0.08	0.41	0.09	0.90	0.08	0.86	0.35
2	0.87	0.20	1.18	0.84	0.92	0.31	1.04	0.50	1.32	0.40	1.34	0.45	1.60	0.60	2.20	0.10	0.82	0.15	1.80	0.15	1.72	0.36
3	1.23	0.32	1.77	>1.00	1.38	0.37	1.56	0.46	1.98	0.51	2.01	0.47	2.40	0.65	3.30	0.16	1.23	0.18	2.70	0.36	2.58	0.45
4	1.64	0.43	2.36	0.95	1.84	0.39	2.08	0.42	2.64	0.46	2.68	0.45	3.20	0.67	4.40	0.10	1.64	0.25	3.60	0.31	3.44	0.60
5	2.05	0.47	2.95	0.87	2.30	0.40	2.60	0.43	3.30	0.51	3.35	0.50	4.00	0.68	5.50	0.04	2.05	0.25	4.50	0.65	4.30	0.61
6	2.46	0.51	3.54	0.83	2.76	0.45	3.12	0.45	3.96	0.50	4.02	0.46	4.80	0.71	6.60	0.00	2.46	0.22	5.40	0.65	5.16	0.58
7	2.87	0.52	4.13	0.62	3.22	0.45	3.64	0.45	4.62	0.46	4.69	0.49	5.60	0.72	7.70	0.00	2.87	0.17	6.30	0.57	6.02	0.34
8	3.28	0.47	4.72	0.46	3.68	0.37	4.16	0.36	5.28	0.37	5.36	0.60	6.40	0.63	8.80	0.01	3.28	0.14	7.20	0.61	6.98	0.16
9	3.69	0.41	5.31	0.35	4.14	0.36	4.68	0.41	5.94	0.45	6.03	0.47	7.20	0.42	9.90	0.03	3.69	0.09	8.10	0.34	7.74	0.10
Right Bank	4.15	0.20	5.90	0	4.60	0.20	5.20	0	6.60	0	6.75	0	8.00	0	11.00	0	4.10	0	9.00	0	8.65	0
Feature Type (riffle, run, or pool)	pool		pool		pool		pool		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

anc 10-16-07

Signed: [signature] Date: 10/01/07

WBID # 1615

Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/01/07 1300	Site Location Description (e.g., road crossing): Stracks Church Rd.
Personnel (Data Collectors): TH/JF	
Current Weather Conditions: Clear	Facility Name: Wildwood Hills Subdivision
Weather Conditions for Past 10 days: Rain/clear	Permit Number: MO87955
Drought Conditions?: No drought ☒; Phase I □; Phase II □; Phase III □; Phase IV □; Unknown □	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): 4290910	Northing (UTM Y): 668532	Horizontal Accuracy: (EPE / FOM / PDOP) 20 ~~Meters~~ km ft
Site 11	Easting (UTM X): 4290803	Northing (UTM Y): 668451	Horizontal Accuracy: (EPE / FOM / PDOP) 17 ~~Meters~~ km ft

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101-304	upstream	101-305	downstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1615
Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☐ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:

Comments:
none

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other:
none

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

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

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

duckweed
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:

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WBID # 1615
Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Tech

RNC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1615 Site #: 1615_02 (WBID_Site#)

Estimated Channel Incision: 0.5 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4290910 UTM Y: 0668532
Horizontal Accuracy Estimate (GPS Data Quality): +/- 20 (feet)

GPS Location (taken at transect 11):
UTM X: 4290803 UTM Y: 0668451
Horizontal Accuracy Estimate (GPS Data Quality): +/- 17 (feet)

Average Stream Width: 6.5 (meters) Length of Survey Segment: 160 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JH | JF

Dissolved Oxygen

Date: 10/01/07 Time: 1300

Dissolved Oxygen: 8.07 (mg/L)

Dissolved Oxygen: 87.1 (% sat)

Specific Cond: 596.0 (µS/cm)

Water Temp.: 20.2 (°C)

Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1.10	0.37	0.30	0.05	0.46	0.15	0.64	0.02	0.49	0.08	0.75	0.06	0.36	0.02	0.39	0.14	0.95	0.14	0.81	0.21	0.35	0.07
2	2.20	0.75	0.60	0.12	0.92	0.26	1.28	0.01	0.98	0.15	1.50	0.02	0.72	0.03	0.78	0.27	1.90	0.40	1.62	0.40	0.70	0.06
3	3.30	0.80	0.90	0.16	1.38	0.30	1.92	0.01	1.47	0.34	2.25	0.06	1.08	0.00	1.17	0.51	2.85	0.52	2.43	0.75	1.05	0.08
4	4.40	0.60	1.20	0.25	1.84	0.24	2.56	0.00	1.96	0.53	3.00	0.16	1.44	0.01	1.56	0.66	3.80	0.43	3.24	0.85	1.40	0.07
5	5.50	0.40	1.50	0.22	2.30	0.18	3.20	0.01	2.45	0.66	3.75	0.24	1.80	0.06	1.95	0.62	4.75	0.48	4.05	0.68	1.75	0.07
6	6.60	0.57	1.80	0.08	2.76	0.12	3.84	0.00	2.94	0.69	4.50	0.29	2.16	0.05	2.34	0.51	5.70	0.51	4.86	0.53	2.10	0.05
7	7.70	0.51	2.10	0.07	3.22	0.10	4.48	0.01	3.43	0.71	5.25	0.30	2.52	0.02	2.73	0.50	6.65	0.50	5.67	0.44	2.45	0.04
8	8.80	0.60	2.40	0.05	3.68	0.05	5.12	0.04	3.92	0.68	6.00	0.26	2.88	0.01	3.12	0.52	7.60	0.50	6.48	0.40	2.80	0.01
9	9.90	0.55	2.70	0.04	4.14	0.09	5.76	0.03	4.41	0.72	6.75	0.14	3.24	0.03	3.51	0.50	8.55	0.40	7.29	0.33	3.15	0.01
Right Bank	11.00	0	3.00	0	4.60	0	6.45	0	4.95	0.50	7.50	0	3.60	0	3.90	0.50	9.50	0.30	8.15	0	3.50	0
Feature Type (riffle, run, or pool)	pool		pool		pool		riffle		pool		pool		run		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

RUC 10-16-07

Signed: [signature] Date: 10/01/07

WBID # 1615

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization

(must be completed for each site)

Date & Time: 10/01/07 1325	Site Location Description (e.g., road crossing): 100m dnstream of Site 02
Personnel (Data Collectors): JH / JF	
Current Weather Conditions: Clear	Facility Name: Wildwood Hills Subdivision
Weather Conditions for Past 10 days: Rainy / clear	Permit Number: MO 0087955
Drought Conditions?: No drought ☒; Phase I □; Phase II □; Phase III □; Phase IV □; Unknown □	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)				
Site 01	Easting (UTM X): 4290741	Northing (UTM Y): 668539	Horizontal Accuracy: (EPE / FOM / PDOP)	29 ~~Meters~~ rm Ft
Site 11	Easting (UTM X): 4290537	Northing (UTM Y): 668471	Horizontal Accuracy: (EPE / FOM / PDOP)	20 ~~Meters~~ rm ft

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
101-306	Field Rd b/w sites 02 & 03	101-307	upstream	101-308	dnstream
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

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

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

WBID # 1615
Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

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	☐ Rural Residential
☐ Campgrounds	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ Boating accesses	☐ Fence	☐ No trespass sign	☐ Steep slopes	☐ Other:

Comments:
none

Evidence of Human Use*: (Attach photos and reference in "Photos" section)

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

Comments / Other:
none

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)

duckweed
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:

*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.

WBID # 1615

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

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

Surveyor's Signature: [signature] Date of Survey: 10/01/07

Organization: AE Solutions Position: Field Technician

NIC 10-16-07

Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 1615 Site #: 1615-0~~2~~3 (WBID_Site#)

Estimated Channel Incision: 0.5 (m) (height between low bank width and water)

GPS Location (taken at transect 1):
UTM X: 4290741 UTM Y: 0668539
Horizontal Accuracy Estimate (GPS Data Quality): +/- 29 (feet)

GPS Location (taken at transect 11):
UTM X: 4290537 UTM Y: 0668471
Horizontal Accuracy Estimate (GPS Data Quality): +/- 20 (feet)

Average Stream Width: ~~7.0~~ 8.8 (meters) Length of Survey Segment: 175 (meters)
(To determne Length of Reach) (20x average stream width)

Field Staff: JH / JF

Dissolved Oxygen

Date: 10/01/07 Time: 1325

Dissolved Oxygen: 7.59 (mg/L)

Dissolved Oxygen: 82.3 (% sat)

Specific Cond: 626.0 (µS/cm)

Water Temp.: 18.8 (°C)

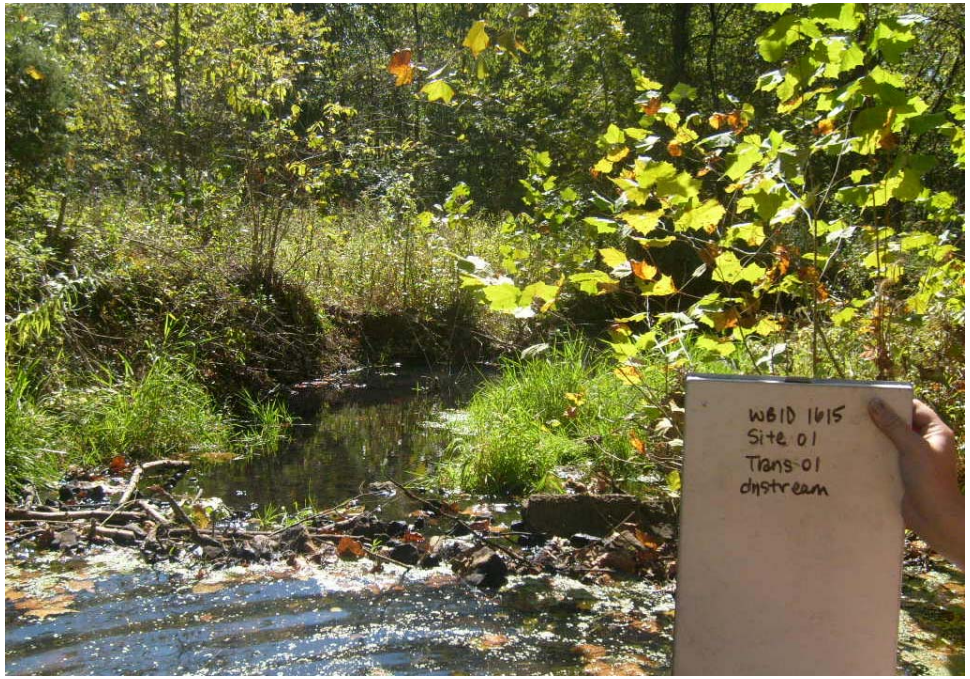
Transect Cross-Section

Station	01 Distance (m)	01 Depth (m)	02 Distance (m)	02 Depth (m)	03 Distance (m)	03 Depth (m)	04 Distance (m)	04 Depth (m)	05 Distance (m)	05 Depth (m)	06 Distance (m)	06 Depth (m)	07 Distance (m)	07 Depth (m)	08 Distance (m)	08 Depth (m)	09 Distance (m)	09 Depth (m)	10 Distance (m)	10 Depth (m)	11 Distance (m)	11 Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0
1	0.75	0.20	0.64	0.06	0.92	0.08	0.61	0.07	0.57	0.04	0.60	0.27	1.00	0.14	1.12	0.25	0.60	0.02	0.53	0.01	0.51	0.05
2	1.50	0.09	1.28	0.16	1.84	0.10	1.22	0.14	1.14	0.04	1.20	0.35	2.00	0.22	2.24	0.24	1.20	0.04	1.06	0.01	1.02	0.10
3	2.25	0.25	1.92	0.26	2.76	0.16	1.83	0.19	1.71	0.05	1.80	0.56	3.00	0.48	3.36	0.18	1.80	0.04	1.59	<0.01	1.53	0.14
4	3.00	0.30	2.56	0.26	3.68	0.14	2.44	0.24	2.28	0.05	2.40	0.66	4.00	0.65	4.48	0.09	2.40	0.08	2.12	0.00	2.04	0.16
5	3.75	0.34	3.20	0.41	4.60	0.20	3.05	0.28	2.85	0.16	3.00	0.66	5.00	0.75	5.60	0.18	3.00	0.11	2.65	0.00	2.55	0.20
6	4.50	0.35	3.84	0.40	5.52	0.25	3.66	0.21	3.42	0.23	3.60	0.50	6.00	0.78	6.72	0.23	3.60	0.13	3.18	0.02	3.06	0.18
7	5.25	0.37	4.48	0.34	6.44	0.25	4.27	0.16	3.99	0.25	4.20	0.46	7.00	0.63	7.84	0.20	4.20	0.13	3.71	0.04	3.57	0.15
8	6.00	0.41	5.12	0.22	7.36	0.21	4.88	0.09	4.56	0.06	4.80	0.31	8.00	0.44	8.96	0.20	4.80	0.15	4.24	0.04	4.08	0.14
9	6.75	0.30	5.76	0.07	8.28	0.17	5.49	0.04	5.13	0.04	5.40	0.20	9.00	0.25	10.08	0.23	5.40	0.17	4.77	0.05	4.59	0.08
Right Bank	7.50	0	6.40	0	9.20	0	6.15	0	5.75	0	6.05	0	10.30	0	11.20	0	6.05	0	5.30	0	5.10	0
Feature Type (riffle, run, or pool)	pool		pool		pool		pool		pool		pool		pool		pool		pool		run		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0depth). This width is the wetted width
GPS location corresponds to Transect 01 and Transect 11. Transects ordered in upstream to downstream order.
Depth measurements taken at 10 equally spaced locations along transect (determine bv dividing wetted width by ten)
Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)
All measurements to be taken to the nearest 0.01 meter.

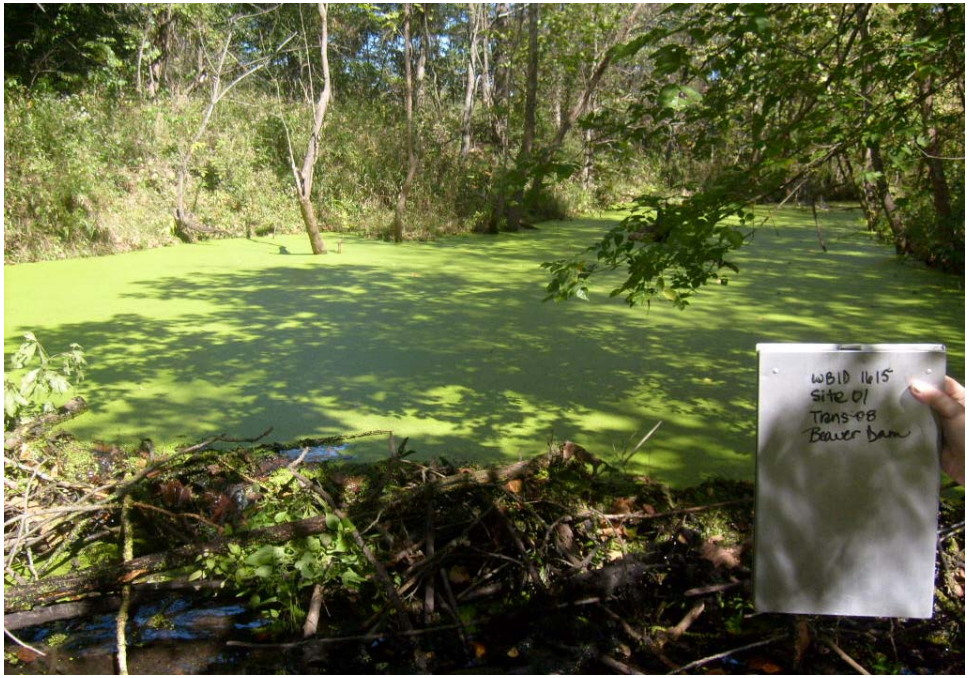
RKC 10-16-07

Signed: [signature] Date: 10/01/07


WBID 1615
Site 01
Trans 01
dnstream

WBID 1615
Site 02
Trans 01
upstream

WBID 1615
Site 01
Trans 01
upstream


WBID 1615
Site 01
Trans 08
Beaver dam

WBID 1615
Field Road
Between Sites 02+03

WBID 1615
Site 03
Trans 01
dnstream

WBID 1615
Site 02
Trans 01
dnstream

WBID 1615
Site 03
Trans 01
upstream