



Missouri
Department of
Natural Resources

Use Attainability Analysis

for

WBID 0012 Noix Creek

Submitted by

MEC Water Resources

To

Missouri Department of Natural Resources

Water Protection Program

On

October 17, 2008

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):	Noix Cr.
Missouri Water Body Identification (WBID) Number:	0012
8-digit HUC:	07110004
County(ies), Listed Upstream to Downstream:	Pike, Pike
Upstream Legal Description (from Table H):	Hwy. 54
Downstream Legal Description (from Table H):	19, 54N, 1W
Number of sites evaluated:	3
List all site numbers, <u>consecutively upstream to downstream</u> :	
Site 01:	Hwy 54 crossing
Site 02:	Rte NN crossing
Site 03:	upstream of 30th St. crossing
Include a Site Location Map(s). The map must include all requirements detailed in the <i>Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol</i> (Section IV.D.8.a).	

II. Facility Information (list all permitted discharges to this water body segment)

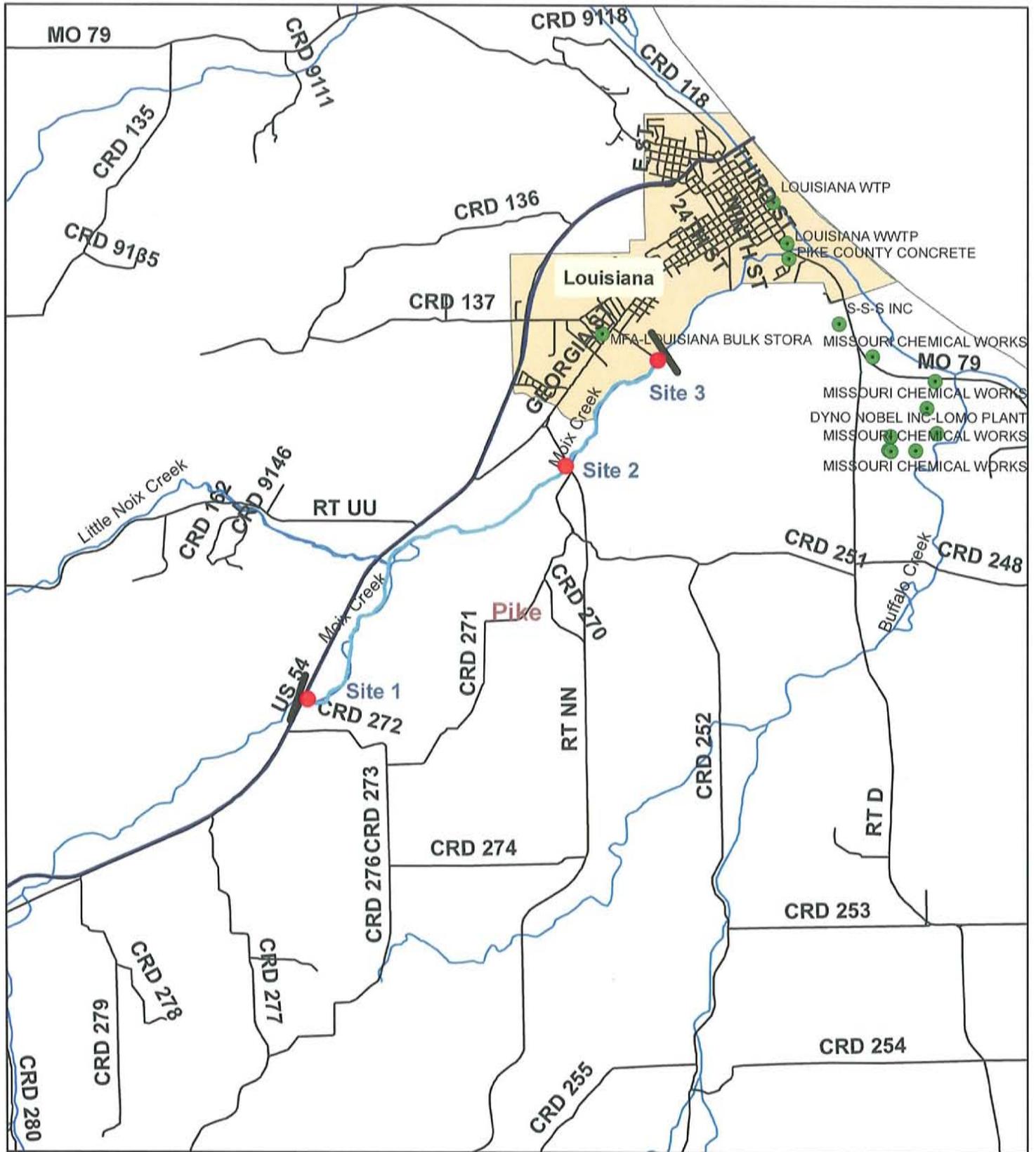
Facility Name(s) and Permit Number(s):
Cozy C RV Campground LLC
MO 0118257

III. UAA Surveyor (please PRINT legibly)

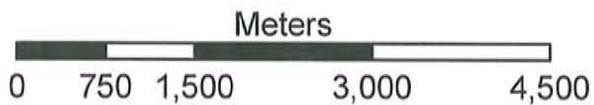
Name of Surveyor: Renee Martin	Telephone Number: 573-443-4100
Organization/Employer: MEC Water Resources / AE Solutions	

Please verify that you have completed all sections of all data sheets, checked all applicable boxes, provided a map (that includes all requirements listed in the *Missouri Recreational Use Attainability Analyses: Water Body Survey and Assessment Protocol*) and that this form is complete.

Signed: Renee Martin Date: 9/20/08



**Noix Creek
WBID 0012
Pike County**



WBID # 0012Site # 01**Field Data Sheets for Recreational Use Stream Surveys****Data Sheet B – Site Characterization** (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>8/26/08</u> <u>1147</u>	Location Description (e.g., road crossing):
Stream Name: <u>Noix Cr</u>	<u>Hwy 54 Crossing</u>
Current Weather Conditions: <u>Partly sunny</u>	Facility Name(s): <u>Cozy C RV Campground LLC</u>
Weather Conditions for Past 10 days: <u>11³⁴ 0.08" rain</u>	Permit Number(s): <u>MO 8118257</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"):	
No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): <u>0662596</u>	Northing (UTM Y): <u>4362624</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>16</u> ^{Meters} <u>FT</u>
Site 11	Easting (UTM X): <u>0662789</u>	Northing (UTM Y): <u>4362596</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>16</u> ^{Meters} <u>FT</u>

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>183</u>	<u>upstream</u>	<u>184</u>	<u>downstream</u>		

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

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use <i>Data Sheet D- Recreational Use Interview</i> when conducting interviews.)				
<u>N/A</u>				

Stream Name & WBID # Noix Cr 0012

Date of Survey 8/24/08

Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:

Comments: House at transect 1
Private property

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

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input type="checkbox"/> None of the above	Comments / Other:			

N/A

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

<u>45</u> % Cobble	<u>15</u> % Gravel	<u>10</u> % Sand	<u>—</u> % Silt	% Mud/Clay	<u>30</u> % Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

Benthic algae willows sycamore smart weed } all
Filamentous algae grasses cottonwood } abundant

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> 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 affect another use.

Stream Name & WBID # Noix Cr 0012

Date of Survey 8/26/08

Site # 01

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

Printed Names of Personnel Collecting Data: Tiffanie Hammiton, Jennifer Arabik

Surveyor's Signature: Tiffanie A. Hamilton Date of Survey: 8/26/08

Organization: AE Solutions Position: Field Technician

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>Noix Creek</u> Waterbody ID: <u>0012</u> Site #: <u>0012_01</u> Estimated Channel Incision: <u>0.10</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>662596</u> UTM Y: <u>4362624</u> +/- <u>16</u> (feet) 11 UTM X: <u>662789</u> UTM Y: <u>4362596</u> +/- <u>16</u> (feet) Average Stream Width: <u>4.6</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>JRH, TAH</u>	Dissolved Oxygen Date: <u>8/26/2008</u> Time: <u>11:47</u> Dissolved Oxygen: <u>12.16</u> (mg/L) Dissolved Oxygen: <u>146.1</u> (% sat) Specific Cond: <u>471</u> (µS/cm) Water Temperature: <u>24.9</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		Distance (m)	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	0.61	0.04	0.43	0.05	0.48	0.19	0.55	0.24	0.86	0.05	0.64	0.05	0.49	0.12	0.17	0.01	0.39	0.07	0.16	0.15	0.25	0.05
	2	1.22	0.06	0.86	0.06	0.96	0.30	1.10	0.29	1.72	0.00	1.28	0.07	0.98	0.19	0.34	0.06	0.78	0.14	0.32	0.19	0.50	0.05
	3	1.83	0.09	1.29	0.12	1.44	0.19	1.65	0.40	2.58	0.00	1.92	0.01	1.47	0.27	0.51	0.12	1.17	0.19	0.48	0.22	0.75	0.07
	4	2.44	0.10	1.72	0.17	1.92	0.20	2.20	0.40	3.44	0.00	2.56	0.10	1.96	0.34	0.68	0.13	1.56	0.23	0.64	0.22	1.00	0.02
	5	3.05	0.09	2.15	0.24	2.40	0.20	2.75	0.42	4.30	0.00	3.20	0.22	2.45	0.30	0.85	0.12	1.95	0.27	0.80	0.18	1.25	0.05
	6	3.66	0.10	2.58	0.22	2.88	0.00	3.30	0.42	5.16	0.10	3.84	0.28	2.94	0.20	1.02	0.09	2.34	0.26	0.96	0.18	1.50	0.02
	7	4.27	0.17	3.01	0.26	3.36	0.00	3.85	0.41	6.02	0.19	4.48	0.28	3.43	0.24	1.19	0.06	2.73	0.25	1.12	0.14	1.75	0.06
	8	4.88	0.15	3.44	0.26	3.84	0.00	4.40	0.30	6.88	0.19	5.12	0.31	3.92	0.23	1.36	0.03	3.12	0.23	1.28	0.12	2.00	0.23
	9	5.49	0.15	3.87	0.15	4.32	0.06	4.95	0.14	7.74	0.27	5.76	0.25	4.41	0.15	1.53	0.01	3.51	0.24	1.44	0.02	2.25	0.19
Right Bank		6.10	0.00	4.25	0.00	4.80	0.00	5.50	0.00	8.60	0.00	6.35	0.00	4.90	0.00	1.65	0.00	3.90	0.00	1.55	0.00	2.50	0.00
Feature Type		Riffle		Riffle		Run		Pool		Run		Run		Run		Riffle		Run		Run		Riffle	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
 GPS locations corresponds to Transect 01 and 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 0.1 meter unless depth is too deep to measure (then record as > 1)
 All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: _____ Date: 8/26/2008

WBID # 0012

Site # 002

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>8/26/08</u> <u>1112</u>	Location Description (e.g., road crossing):
Stream Name: <u>Noix Cr.</u>	<u>Rte NN crossing</u>
Current Weather Conditions: <u>partly sunny</u>	Facility Name(s): <u>Cozy e RV Campground LLC</u>
Weather Conditions for Past 10 days: <u>0.08" rain</u>	Permit Number(s): <u>MO 0118257</u>
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site 01	Easting (UTM X): <u>0665795</u>	Northing (UTM Y): <u>4365376</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>29</u> Meters <u>98 FT</u>
Site 11	Easting (UTM X): <u>0665956</u>	Northing (UTM Y): <u>4365399</u>	Horizontal Accuracy: (EPE / FOM / PDOP) <u>24</u> Meters <u>79 FT</u>

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>181</u>	<u>upstream</u>	<u>182</u>	<u>downstream</u>		

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

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> 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.) <p style="text-align: center;"><u>N/A</u></p>				

Stream Name & WBID # Noix Cr. 0012

Date of Survey 8/29/08

Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:

Comments:
Private property

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

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input type="checkbox"/> None of the above	Comments / Other:			

N/A

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

<u>50</u> % Cobble	<u>20</u> % Gravel	<u>5</u> % Sand	<u>-</u> % Silt	% Mud/Clay	<u>25</u> % Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

Benthic, Filamentous algae - abundant

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> 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 affect another use.

Stream Name & WBID # Noix Cr 6012

Date of Survey 8/26/08

Site # 02

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

Printed Names of Personnel Collecting Data: Tiffanie Hamilton, Jennifer Arabik

Surveyor's Signature: Tiffanie A. Hamilton Date of Survey: 8/26/08

Organization: AE Solutions Position: Field Technician

8/22/08

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>Noix Creek</u> Waterbody ID: <u>0012</u> Site #: <u>0012_02</u> Estimated Channel Incision: <u>0.10</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>665795</u> UTM Y: <u>4365376</u> +/- <u>29</u> (feet) 11 UTM X: <u>665956</u> UTM Y: <u>4365599</u> +/- <u>24</u> (feet) Average Stream Width: <u>9.2</u> (meters) Length of Survey Segment: <u>184</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>JRH, TAH</u>	Dissolved Oxygen Date: <u>8/26/2008</u> Time: <u>11:12</u> Dissolved Oxygen: <u>10.20</u> (mg/L) Dissolved Oxygen: <u>119.4</u> (% sat) Specific Cond: <u>486</u> (µS/cm) Water Temperature: <u>23.2</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		Distance (m)	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	1.06	0.06	0.69	0.20	0.73	0.10	1.23	0.10	0.79	0.16	0.80	0.16	1.73	0.04	0.70	0.40	1.01	0.28	0.97	0.30	0.43	0.26
	2	2.12	0.05	1.38	0.20	1.46	0.07	2.46	0.13	1.58	0.08	1.60	0.17	3.46	0.03	1.40	0.60	2.02	0.56	1.94	0.46	0.86	0.25
	3	3.18	0.06	2.07	0.26	2.19	0.12	3.69	0.10	2.37	0.04	2.40	0.29	5.19	0.03	2.10	0.49	3.03	>1.00	2.91	0.29	1.29	0.25
	4	4.24	0.05	2.76	0.33	2.92	0.01	4.92	0.14	3.16	0.06	3.20	0.16	6.92	0.01	2.80	0.43	4.04	>1.00	3.88	0.30	1.72	0.20
	5	5.30	0.05	3.45	0.38	3.65	0.00	6.15	0.05	3.95	0.00	4.00	0.15	8.65	0.01	3.50	0.45	5.05	>1.00	4.85	0.38	2.15	0.20
	6	6.36	0.05	4.14	0.40	4.38	0.03	7.38	0.17	4.74	0.01	4.80	0.19	10.38	0.10	4.20	0.36	6.06	>1.00	5.82	0.24	2.58	0.24
	7	7.42	0.08	4.83	0.45	5.11	0.03	8.61	0.21	5.53	0.14	5.60	0.25	12.11	0.01	4.90	0.22	7.07	0.92	6.79	0.20	3.01	0.18
	8	8.48	0.06	5.52	0.24	5.84	0.14	9.84	0.15	6.32	0.23	6.40	0.22	13.84	0.02	5.60	0.12	8.08	0.52	7.76	0.18	3.44	0.13
	9	9.54	0.06	6.21	0.20	6.57	0.20	11.07	0.03	7.11	0.12	7.20	0.31	15.57	0.00	6.30	0.02	9.09	0.29	8.73	0.18	3.87	0.04
Right Bank		10.60	0.00	6.90	0.00	7.30	0.00	12.30	0.00	7.90	0.00	7.95	0.00	17.30	0.00	7.00	0.00	10.10	0.00	9.70	0.00	4.25	0.00
Feature Type <small>(riffle, run, or pool)</small>		Riffle		Run		Riffle		Run		Riffle		Run		Riffle		Pool		Pool		Run		Run	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
 GPS locations corresponds to Transect 01 and 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 0.1 meter unless depth is too deep to measure (then record as > 1)
 All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: _____ Date: 8/26/2008

WBID # 0012

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 1 of 3)

(must be completed for each site)

Date & Time: <u>8/26/08 10:26</u>	Location Description (e.g., road crossing): <u>30th St. BRICE ST. Crossing - upstream</u>
Stream Name: <u>Noix Cr</u>	Facility Name(s): <u>Cozy C RV Campground LLC</u>
Current Weather Conditions: <u>mostly sunny</u>	Permit Number(s): <u>MO 0118257</u>
Weather Conditions for Past 10 days: <u>0.08" rain</u>	
Official Drought Conditions at time of this survey (search DNR home page for "drought"): No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)					
Site 01	Easting (UTM X): <u>06666782</u>	Northing (UTM Y): <u>43666510</u>	Horizontal Accuracy: (EPE / FOM / PDOP)	<u>22</u> Meters	<u>FT</u>
Site 11	Easting (UTM X): <u>06666910</u> <u>0666782</u> <u>JCM</u>	Northing (UTM Y): <u>43666662</u> <u>43666510</u> <u>JCM</u>	Horizontal Accuracy: (EPE / FOM / PDOP)	<u>20</u> Meters	<u>FT</u>

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
<u>176</u>	<u>road crossing</u>	<u>179</u>	<u>downstream</u>	<u>180</u>	<u>upstream</u>

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

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> 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.)				

Stream Name & WBID # Noix Cr 0012

Date of Survey 8/26/08

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 2 of 3)

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input checked="" type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other:

Comments: Louisiana - Steel mill property - private property
 - powerlines at Transect 11.
 - gained access from landowner + got key to gate.

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

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV / ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock Watering
<input type="checkbox"/> None of the above	Comments / Other: <u>N/A</u>			

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

<u>20</u> % Cobble	<u>10</u> % Gravel	<u>-</u> % Sand	<u>-</u> % Silt	<u>-</u> % Mud/Clay	<u>70</u> % Bedrock
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Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

Benthic algae Willow } all abundant
 filamentous algae sycamore }

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> 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 affect another use.

Stream Name & WBID # Noix Cr. 0012

Date of Survey 8/26/08

Site # 03

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B – Site Characterization (Page 3 of 3)

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)
		N/A			

Comments: (Please record any additional comments here.)

N/A

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

Printed Names of Personnel Collecting Data: Tiffanie Hamilton, Jennifer Hrabik

Surveyor's Signature: Tiffanie A. Hamilton Date of Survey: 8/26/08

Organization: AE Solutions Position: Field Technician

4/22/08

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Stream Name: <u>Noix Creek</u> Waterbody ID: <u>0012</u> Site #: <u>0012_03</u> Estimated Channel Incision: <u>0.20</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>666782</u> UTM Y: <u>4366510</u> +/- <u>22</u> (feet) 11 UTM X: <u>666910</u> UTM Y: <u>4366662</u> +/- <u>20</u> (feet) Average Stream Width: <u>9.3</u> (meters) Length of Survey Segment: <u>186</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>JRH, TAH</u>	Dissolved Oxygen Date: <u>8/26/2008</u> Time: <u>10:26</u> Dissolved Oxygen: <u>3.93</u> (mg/L) Dissolved Oxygen: <u>45.5</u> (% sat) Specific Cond: <u>461</u> (µS/cm) Water Temperature: <u>22.2</u> (°C)
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Transect Cross-Section

		01		02		03		04		05		06		07		08		09		10		11	
Station		Distance (m)	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	1.26	0.83	1.14	0.40	1.72	0.19	0.57	0.02	0.41	0.04	1.41	0.29	0.48	0.18	0.56	0.22	0.98	0.40	1.07	0.30	0.61	0.16
	2	2.52	>1.00	2.28	0.62	3.44	0.00	1.14	0.00	0.82	0.12	2.82	0.30	0.96	0.21	1.12	0.30	1.96	0.45	2.14	0.50	1.22	0.48
	3	3.78	>1.00	3.42	0.45	5.16	0.00	1.71	0.00	1.23	0.25	4.23	0.29	1.44	0.20	1.68	0.40	2.94	0.54	3.21	0.62	1.83	0.45
	4	5.04	>1.00	4.56	0.29	6.88	0.00	2.28	0.15	1.64	0.25	5.64	0.44	1.92	0.31	2.24	0.37	3.92	0.52	4.28	0.62	2.44	0.50
	5	6.30	0.65	5.70	0.20	8.60	0.07	2.85	0.12	2.05	0.24	7.05	0.45	2.40	0.34	2.80	0.41	4.90	0.53	5.35	0.59	3.05	0.49
	6	7.56	>1.00	6.84	0.23	10.32	0.00	3.42	0.10	2.46	0.25	8.46	0.45	2.88	0.34	3.36	0.30	5.88	0.45	6.42	0.40	3.66	0.50
	7	8.82	>1.00	7.98	0.26	12.04	0.05	3.99	0.13	2.87	0.22	9.87	0.43	3.36	0.34	3.92	0.26	6.86	0.39	7.49	0.38	4.27	0.50
	8	10.08	>1.00	9.12	0.26	13.76	0.16	4.56	0.12	3.28	0.17	11.28	0.41	3.84	0.24	4.48	0.17	7.84	0.37	8.56	0.28	4.88	0.50
	9	11.34	0.63	10.26	0.24	15.48	0.21	5.13	0.04	3.69	0.17	12.69	0.40	4.32	0.16	5.04	0.13	8.82	0.33	9.63	0.24	5.49	0.38
Right Bank		12.60	0.00	11.40	0.00	17.20	0.00	5.70	0.00	4.05	0.00	14.10	0.00	4.80	0.00	5.60	0.00	9.80	0.00	10.70	0.00	6.10	0.00
Feature Type		Pool		Run		Riffle		Riffle		Run		Pool											

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width
 GPS locations corresponds to Transect 01 and 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 0.1 meter unless depth is too deep to measure (then record as > 1)
 All measurements to be taken to the nearest 0.01 meter.

Surveyor's Signature: _____ Date: 8/26/2008

SITE #01
DOWNSTREAM



SITE #02
DOWNSTREAM



SITE #01
UPSTREAM



SITE #02
UPSTREAM



SITE #03
DOWNSTREAM



BID #0012
TE #03
addressing

SITE #03
UPSTREAM

