

## Use Attainability Analysis

<b>1 Water Body Name</b>	Unnamed Tributary to East Branch West Nishnabotna River
<b>2 Segment Description</b>	Mouth to Prairie Rose Lake spillway
<b>3 Segment Length (mi)</b>	0.88
<b>4 Drainage Area (sq. mi.)</b>	7.83
<b>5 Segment Start Latitude, Longitude (DD)</b>	41.59918, -95.23943
<b>6 Segment End Latitude, Longitude (DD)</b>	41.60074, -95.22869
<b>7 Route of Flow (Next Downstream Adopted Designated Use)</b>	Unnamed Tributary (A3, BWW2, proposed) to East Branch West Nishnabotna River (A2, BWW1, pending, to A1, BWW1, pending) to West Nishnabotna River (A1, BWW1, HH)
<b>8 NPDES Facility and Permit Number (if Applicable)</b>	DNR Prairie Rose State Park (8300900)
<b>9 Sample Site ID(s)</b>	1023-1
<b>10 Segment County Name(s)</b>	Shelby
<b>11 Field Work Date(s)</b>	7/30/2014

### 12 Aquatic Life Use Attainability Analysis - Conclusion

<b>Recommended Highest Attainable Use: Aquatic Life Use</b>	BWW2
<b>40 CFR 131.10(g)(2) (Flow)</b>	The natural low flow conditions of the stream segment are insufficient to create the habitat necessary to support a viable community of game fish. Per the aquatic life delineations document (see "The Large Lake Outlet Scenario"), small creeks that outlet from lakes may be inhabited by species that would be found in the lake, due to the outlets providing periodic flow. However, due to an overall lack of flow and suitable (lentic) habitat for these fish to complete their normal life cycles, these creeks will not be able to support and maintain warm water game fish populations that escape from the lake. A lack of age ranges and diversity of game fish species indicates a non-reproducing population (see Site Observations Table). A BWW1 designation requires multiple species and age ranges to be viable. Therefore, the highest attainable aquatic life use for this stream segment is BWW2.
<b>40 CFR 131.10(g)(5) (Physical Conditions)</b>	Physical conditions related to the natural features of the water body are insufficient to support a viable community of game fish. Per the aquatic life delineations document (see "The Large Lake Outlet Scenario"), small creeks that outlet from lakes may be inhabited by species that would be found in the lake, due to the outlets providing periodic flow. However, due to an overall lack of flow and suitable (lentic) habitat for these fish to complete their normal life cycles, these creeks will not be able to support and maintain warm water game fish populations that escape from the lake. A lack of age ranges and diversity of game fish species indicates a non-reproducing population (see Site Observations Table). A BWW1 designation requires multiple species and age ranges to be viable. Therefore, the highest attainable aquatic life use for this stream segment is BWW2.

### 13 Recreational Use Attainability Analysis - Conclusion

<b>Recommended Highest Attainable Use: Recreational Use</b>	A3
<b>40 CFR 131.10(g)(2) (Flow)</b>	The natural low flow conditions and water levels of the stream segment prevent an A1 recreational use (see Site Observations Table). An A1 designation requires the ability for full body immersion. However, this stream segment is in close proximity to a population center/park. Therefore, the A3 recreational use is recommended.

### 14 Flow

Field Work Date	Description
7/30/2014	<a href="#">USGS stream gage data</a> for the area indicated stream flows were slightly above normal (near the 75 <sup>th</sup> percentile) at the time of assessment.

### Use Attainability Analysis - Data Site Observations

Use	Site parameter	Site ID #1023-1
AL/R	15 Latitude, Longitude (DD)	41.59913, -95.23135
AL/R	16 Average Depth (in)	2.5
AL/R	17 Maximum Depth (in)	12
AL/R	18 Stream Width (ft)	2
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Red shiner: 5
	21 Game Fish Present and Counts (Species (Size Range): Number)	Bluegill (juvenile): >50 Largemouth bass (juvenile): 16
	22 Stream Habitat (See also: #29 Site Photos)	Steep banks. Deep muck. Lots of debris. Few pools. Well shaded.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	No
	24 Evidence of Use by Children? (Yes*/No)	Yes
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes: fishing, wading
AL/R	26 Additional Description	Public surveys indicated A2 and A3 uses. Part of the segment is located in Prairie Rose State Park.

AL = Aquatic Life

R = Recreation

\*If yes, elaborate.

### 27 Supplemental Data

Desktop review verified that the UAA field work is still valid.

28 Map of Segment, Outfall, and Site(s)





## 29 Site Photos



**Figure 1. 1023-1 Recreational use assessment midpoint looking upstream.**



**Figure 2. 1023-1 Recreational use assessment midpoint looking downstream.**





**Figure 3. 1023-1 Recreational use assessment upstream looking upstream.**



**Figure 4. 1023-1 Recreational use assessment upstream looking downstream.**





**Figure 5. 1023-1 Recreational use assessment downstream looking upstream.**



**Figure 6. 1023-1 Recreational use assessment downstream looking downstream.**