Use Attainability Analysis

1 Water Body Name	Unnamed Tributary to Des Moines River
2 Segment Description	Mouth to DNR Lacey-Keosauqua State Park outfall
3 Segment Length (mi)	0.56
4 Drainage Area (sq. mi.)	0.19
5 Segment Start Latitude, Longitude (DD)	40.71745, -91.97539
6 Segment End Latitude, Longitude (DD)	40.71263, -91.98038
7 Route of Flow (Next Downstream Adopted Designated Use)	Unnamed Tributary (general use, proposed) to Des Moines River (A1, BWW1, HH)
8 NPDES Facility and Permit Number (If Applicable)	DNR Lacey-Keosauqua State Park (8900904)
9 Sample Site ID(s)	1056-1
10 Segment County Name(s)	Van Buren
11 Field Work Date(s)	9/28/2016

12 Aquatic Life Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Aquatic Life Use	General Use
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions of the stream segment are insufficient to create the habitat necessary to support a community of fish (see Site Observations Table). A BWW1 designation requires multiple species and age ranges of game fish to be viable. A BWW2 designation requires permanent flow. A BWW3 designation requires intermittent flow with perennial pools. This segment has none of those. Therefore, the highest attainable use for this stream segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000 DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.
40 CFR 131.10(g)(5) (Physical Conditions)	Physical conditions related to the natural features of the water body are insufficient to support a community of fish (see Site Observations Table). A BWW1 designation requires multiple species and age ranges of game fish to be viable. A BWW2 designation requires enough habitat beyond non-flowing perennial pools to support an aquatic community. A BWW3 designation requires habitat in perennial pools to support an aquatic community. This segment has none of those. Therefore, the highest attainable use for this stream segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000 DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.

13 Recreational Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Recreational Use	General Use
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions and water levels of the stream segment prevent the attainment of any recreational use (see Site Observations Table). A1, A2, and A3 designations require the ability to recreate in and on the water. This segment has no water. Therefore, the highest attainable use for this segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000

	DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.

14 Flow

Field Work Date	Description
9/28/2016	USGS stream gage data for the area indicated stream flows were much above normal at the time of assessment.

Use Attainability Analysis - Data

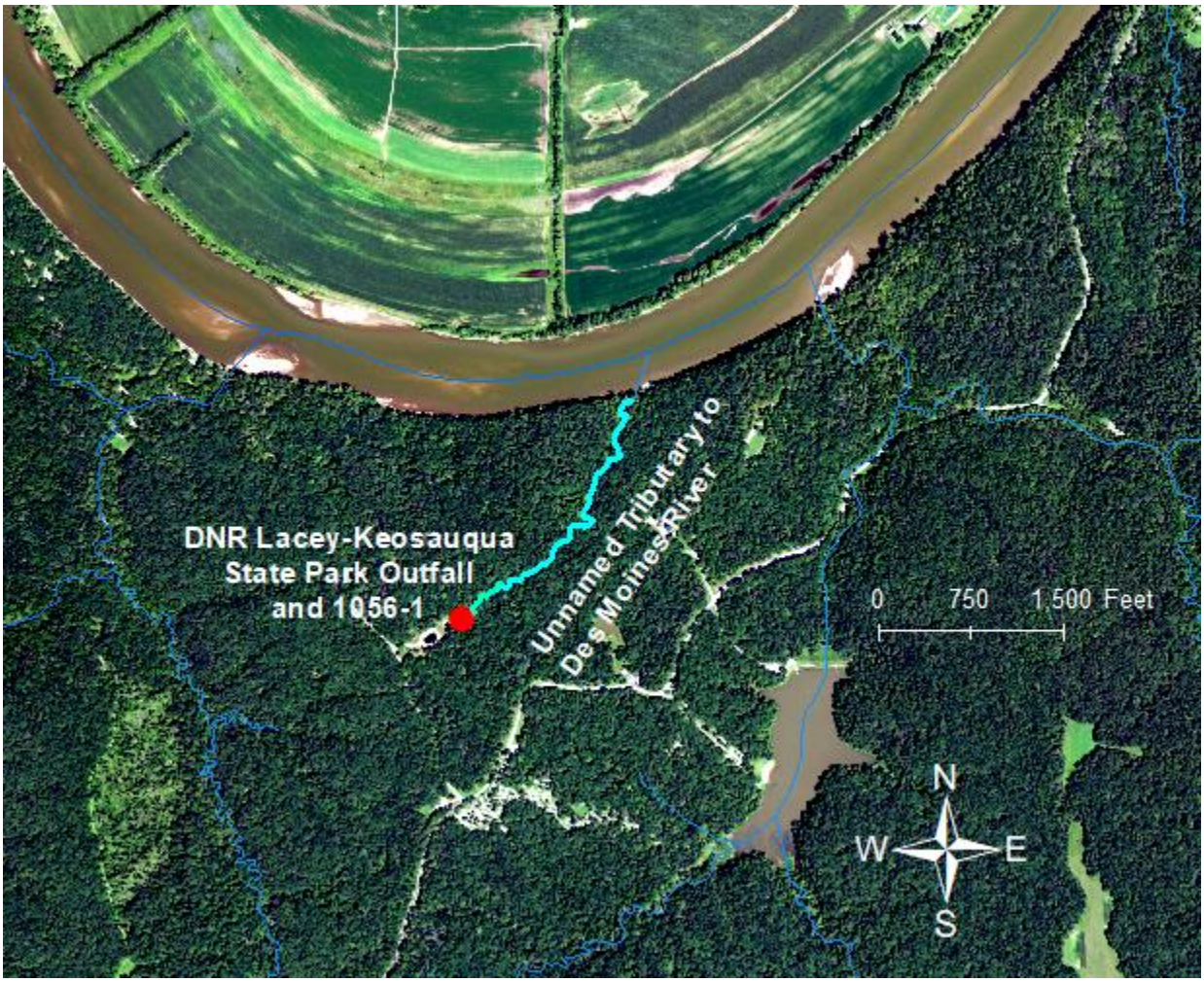
Site Observations

Use	Site parameter	Site ID #1056-1
AL/R	**15 Latitude, Longitude (DD)**	40.71263, -91.98038
AL/R	**16 Average Depth (in)**	Not measured (dry)
AL/R	**17 Maximum Depth (in)**	Not measured (dry)
AL/R	**18 Stream Width (ft)**	Not measured (dry)
AL/R	**19 Pools Observed?**	No
AL only	**20 Non-Game Fish Present and Counts (Species: Number)**	None
	21 Game Fish Present and Counts (Species (Size Range): Number)	None
	22 Stream Habitat (See also: #29 Site Photos)	The stream was a dry channel through a forested area.
R only	**23 Evidence of Use for Primary Contact Recreation? (Yes*/No)**	No
	24 Evidence of Use by Children? (Yes*/No)	No
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	No
AL/R	**26 Additional Description**	N/A

AL = Aquatic Life
R = Recreation
*If yes, elaborate.

27 Supplemental Data
N/A

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



29 Site Photos

Figure 1. 1056-1 Outfall

Figure 2. 1056-1 Looking up at lagoon

Figure 3. 1056-1 Dry stream channel

Figure 4. 1056-1 Dry stream channel photo 2

Figure 5. 1056-1 Dry stream channel photo 3