

Use Attainability Analysis

1 Water Body Name	Unnamed Tributary to Iowa River
2 Segment Description	Mouth to storm sewer outlet
3 Segment Length (mi)	0.28
4 Drainage Area (sq. mi.)	0.54
5 Segment Start Latitude, Longitude (DD)	42.06633, -92.90410
6 Segment End Latitude, Longitude (DD)	42.06318, -92.90588
7 Route of Flow (Next Downstream Adopted Designated Use)	Unnamed Tributary (A1, BWW1, HH, proposed) to Iowa River (A1, BWW1, HH)
8 NPDES Facility and Permit Number (If Applicable)	Bruin Manufacturing Co., Inc. (6400113)
9 Sample Site ID(s)	1, 2, 3
10 Segment County Name(s)	Marshall
11 Field Work Date(s)	9/16/2025

12 Aquatic Life Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Aquatic Life Use	BWW1
Physical conditions and flow are sufficient to support a viable community of game fish. Diverse species and age ranges are present, indicating a reproducing population (see Site Observations Table). Therefore, the highest attainable aquatic life use for this stream segment is BWW1.	

13 Recreational Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Recreational Use	A1
Water levels and flow are sufficient to support full body immersion (see Site Observations Table). Therefore, the highest attainable recreational use for this stream segment is A1.	

Additional Recommended Designation(s) - Conclusion

Recommended Highest Attainable Use: Human Health	HH
As this stream segment is receiving a BWW1 designation, an additional Human Health designation shall also be applied.	

14 Flow

Field Work Date	Description
9/16/2025	USGS stream gage 05451500 data for the area indicated stream flows were normal at the time of assessment.

Use Attainability Analysis - Data

Site Observations

Use	Site parameter	Site ID #1
AL/R	15 Latitude, Longitude (DD)	42.06613, -92.90396
AL/R	16 Average Depth (in)	Not measured
AL/R	17 Maximum Depth (in)	Not measured
AL/R	18 Stream Width (ft)	95
AL/R	19 Pools Observed?	Yes

Use	Site parameter	Site ID #1
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Not sampled
	21 Game Fish Present and Counts (Species (Size Range): Number)	Not sampled
	22 Stream Habitat (See also: #29 Site Photos)	Pool created by impoundment with little to no flow.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	Yes
	24 Evidence of Use by Children? (Yes*/No)	Yes
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes
AL/R	26 Additional Description	Large pool located in a city park.

Use	Site parameter	Site ID #2
AL/R	15 Latitude, Longitude (DD)	42.06403, -92.90515
AL/R	16 Average Depth (in)	Not measured
AL/R	17 Maximum Depth (in)	48
AL/R	18 Stream Width (ft)	55
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Not sampled
	21 Game Fish Present and Counts (Species (Size Range): Number)	Not sampled
	22 Stream Habitat (See also: #29 Site Photos)	Pool created by impoundment with little to no flow.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	Yes
	24 Evidence of Use by Children? (Yes*/No)	Yes
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes
AL/R	26 Additional Description	Large pool located in a city park.

Use	Site parameter	Site ID #3
AL/R	15 Latitude, Longitude (DD)	42.06318, -92.90588
AL/R	16 Average Depth (in)	Not measured
AL/R	17 Maximum Depth (in)	Not measured
AL/R	18 Stream Width (ft)	56
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Not sampled
	21 Game Fish Present and Counts (Species (Size Range): Number)	Not sampled
	22 Stream Habitat (See also: #29 Site Photos)	Pool created by impoundment with little to no flow.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	Yes
	24 Evidence of Use by Children? (Yes*/No)	Yes
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes
AL/R	26 Additional Description	Large pool located in a city park.

AL = Aquatic Life

R = Recreation

*If yes, elaborate.

27 Supplemental Data

Bruin Manufacturing discharges into a storm sewer that daylights in the area being designated. The pool was created by an impoundment that is part of a flood control structure. A city employee stated that the pool is known locally as “the lagoon” and fishing and recreation do occur there.

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



29 Site Photos



Figure 1. Site #1 looking downstream at the flood control structure.



Figure 2. Site #2 looking upstream from a bridge.



Figure 3. Site #2 looking downstream from a bridge.



Figure 4. Site #3 looking upstream towards the outfall.