

## Use Attainability Analysis

<b>1 Water Body Name</b>	Honey Creek
<b>2 Segment Description</b>	Mouth to confluence with Cardinal Creek
<b>3 Segment Length (mi)</b>	25.6
<b>4 Drainage Area (sq. mi.)</b>	113
<b>5 Segment Start Latitude, Longitude (DD)</b>	42.14359, -93.05469
<b>6 Segment End Latitude, Longitude (DD)</b>	42.29853, -93.31949
<b>7 Route of Flow (Next Downstream Adopted Designated Use)</b>	Honey Creek (A2, proposed, BWW2, existing, to A3, proposed, BWW2, existing, to A2, proposed, BWW2, existing) to Iowa River (A1, BWW1, HH)
<b>8 NPDES Facility and Permit Number (If Applicable)</b>	Radcliffe, City of STP (4283001)
<b>9 Sample Site ID(s)</b>	1328-4, 1328-5, 1328-6, 1328-7
<b>10 Segment County Name(s)</b>	Marshall/Hardin
<b>11 Field Work Date(s)</b>	8/17/2017

### 12 Aquatic Life Use Attainability Analysis - Conclusion

<b>Recommended Highest Attainable Use: Aquatic Life Use</b>	N/A
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### 13 Recreational Use Attainability Analysis - Conclusion

<b>Recommended Highest Attainable Use: Recreational Use</b>	A2 (mouth to confluence with unnamed tributary) (confluence with unnamed tributary to confluence with Cardinal Creek)
<b>40 CFR 131.10(g)(2) (Flow)</b>	The natural low flow conditions and water levels of the stream segment prevent the attainment of an A1 recreational use (see Site Observations Table). An A1 designation requires the ability for full body immersion. Therefore, the highest attainable recreational use is A2.

<b>Recommended Highest Attainable Use: Recreational Use</b>	A3 (confluence with unnamed tributary to confluence with unnamed tributary)
<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
8/17/2017	<a href="#">USGS stream gage data</a> for the area indicated stream flows were normal at the time of assessment.

### Use Attainability Analysis - Data

#### Site Observations

Use	Site parameter	Site ID # 1328-4
AL/R	15 Latitude, Longitude (DD)	42.29578, -93.30007
AL/R	16 Average Depth (in)	10.5
AL/R	17 Maximum Depth (in)	30
AL/R	18 Stream Width (ft)	20
AL/R	19 Pools Observed?	Yes

Use	Site parameter	Site ID # 1328-4
AL only	20 Non-Game Fish Present and Counts (Species: Number)	N/A
	21 Game Fish Present and Counts (Species (Size Range): Number)	N/A
	22 Stream Habitat (See also: #29 Site Photos)	N/A
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	Beaver dam 50 feet downstream creating pooled area below bridge.

Use	Site parameter	Site ID # 1328-5
AL/R	15 Latitude, Longitude (DD)	42.25535, -93.19609
AL/R	16 Average Depth (in)	4
AL/R	17 Maximum Depth (in)	21.6
AL/R	18 Stream Width (ft)	22
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	N/A
	21 Game Fish Present and Counts (Species (Size Range): Number)	N/A
	22 Stream Habitat (See also: #29 Site Photos)	N/A
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

Use	Site parameter	Site ID # 1328-6
AL/R	15 Latitude, Longitude (DD)	42.23401, -93.11787
AL/R	16 Average Depth (in)	4.5
AL/R	17 Maximum Depth (in)	21.6
AL/R	18 Stream Width (ft)	16
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	N/A
	21 Game Fish Present and Counts (Species (Size Range): Number)	N/A
	22 Stream Habitat (See also: #29 Site Photos)	N/A
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

Use	Site parameter	Site ID # 1328-7
AL/R	15 Latitude, Longitude (DD)	42.16213, -93.07033
AL/R	16 Average Depth (in)	3.5
AL/R	17 Maximum Depth (in)	14.4
AL/R	18 Stream Width (ft)	20
AL/R	19 Pools Observed?	Yes

Use	Site parameter	Site ID # 1328-7
AL only	20 Non-Game Fish Present and Counts (Species: Number)	N/A
	21 Game Fish Present and Counts (Species (Size Range): Number)	N/A
	22 Stream Habitat (See also: #29 Site Photos)	N/A
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

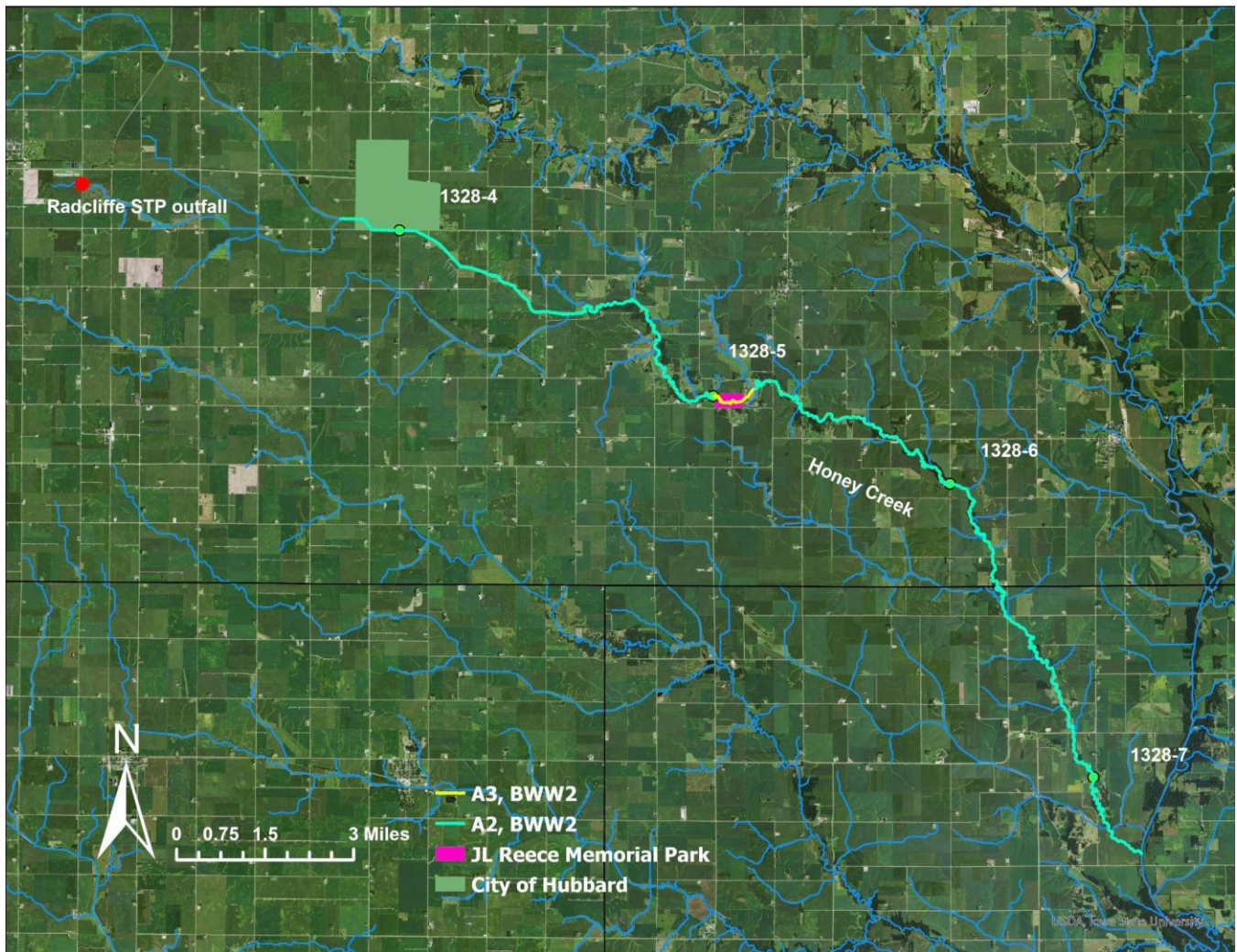
R = Recreation

\*If yes, elaborate.

## 27 Supplemental Data

Honey Creek flows through the city limits of Hubbard and JL Reece Memorial Park which provides recreational access to Honey Creek near site #1328-5.

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





## 29 Site Photos



Figure 1. 1328-4 Recreational use assessment upstream looking upstream.



Figure 2. 1328-4 Recreational use assessment upstream looking downstream.



**Figure 3. 1328-4 Recreational use assessment downstream looking upstream.**



**Figure 4. 1328-4 Recreational use assessment downstream looking downstream.**





**Figure 5. 1328-4 Beaver dam.**



**Figure 6. 1328-5 Recreational use assessment midpoint looking upstream.**





**Figure 7. 1328-5 Recreational use assessment midpoint looking downstream.**



**Figure 8. 1328-5 Recreational use assessment upstream looking upstream.**





**Figure 9. 1328-5 Recreational use assessment upstream looking downstream.**



**Figure 10. 1328-5 Recreational use assessment downstream looking upstream.**



**Figure 11. 1328-5 Recreational use assessment downstream looking downstream.**



**Figure 12. 1328-6 Recreational use assessment midpoint looking upstream.**





**Figure 13. 1328-6 Recreational use assessment midpoint looking downstream.**



**Figure 14. 1328-6 Recreational use assessment upstream looking upstream.**





**Figure 15. 1328-6 Recreational use assessment upstream looking downstream.**



**Figure 16. 1328-6 Recreational use assessment downstream looking upstream.**



**Figure 17. 1328-6 Recreational use assessment downstream looking downstream.**



**Figure 18. 1328-7 Recreational use assessment midpoint looking upstream.**





**Figure 19. 1328-7 Recreational use assessment midpoint looking downstream.**



**Figure 20. 1328-7 Recreational use assessment upstream looking upstream.**





**Figure 21. 1328-7 Recreational use assessment upstream looking downstream.**



**Figure 22. 1328-7 Recreational use assessment downstream looking upstream.**



**Figure 23. 1328-7 Recreational use assessment downstream looking downstream.**