

Appendix J

Waterbodies Crossed by the Proposed Pipeline

Guardian Pipeline Expansion and Extension Project Waterbodies Crossed by the Proposed Pipeline <u>a/</u>						
Approx. Milepost	Feature ID	Waterbody Name <u>b/</u>	Water Quality Classification <u>c/</u>	Flow Regime <u>d/</u>	Approx. Water Width (ft) <u>e/</u>	Crossing Method
0.6	000S1	Unnamed tributary to Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
2.9	002S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
5.4	004S1	Unnamed tributary to Baker Creek	Fish & Aquatic Life	IT	< 10	Open Cut
6.9	006S2	Unnamed tributary to Baker Creek	Fish & Aquatic Life	IT	< 10	Open Cut
7.6	007S1	Baker Creek	Fish & Aquatic Life	PN	< 10	Open Cut
7.8	007S2	<i>Unnamed tributary to Baker Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
7.9	008S1	<i>Unnamed tributary to Baker Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
8.6	009S1	Unnamed tributary to Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
9.2	009S2	Unnamed tributary to Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
9.8	009S3	Rock River	Fish & Aquatic Life	PN	120	HDD
11.0	011S1	Unnamed tributary to Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
12.3	012S1	Rubicon River	Fish & Aquatic Life	PN	40	Open Cut
13.6	013S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
15.0	015S4	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
15.1	015S3	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
15.1	015S2	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
15.2	015S1	Unnamed tributary to Wildcat Creek	Fish & Aquatic Life	IT	< 10	Open Cut
16.1	016S1	Woodland Creek	Fish & Aquatic Life	PN	< 10	Open Cut
17.7	017S1	Unnamed tributary to Wildcat Creek	Limited Aquatic Life	IT	< 10	Open Cut
17.9	017S2	Unnamed tributary to Wildcat Creek	Limited Aquatic Life	PN	< 10	Open Cut
18.2	018S1	Wildcat Creek	Limited Aquatic Life	PN	< 10	Open Cut
18.8	018S2	Lentz Creek	Fish & Aquatic Life ^{f/}	PN	< 10	Open Cut
19.2	019S1	Unnamed tributary to Lentz Creek	Fish & Aquatic Life	IT	< 10	Open Cut
21.4	021S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut ^{g/}
22.2	022S1	Unnamed tributary to E. Branch Rock River	Fish & Aquatic Life	PN	< 10	Open Cut
22.7	022S3	Unnamed tributary to E. Branch Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
22.8	022S2	Unnamed tributary to E. Branch Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
23.5	023S1	Unnamed tributary to E. Branch Rock River	Fish & Aquatic Life	PN	< 10	Open Cut
25.4	025S1	E. Branch Rock River	Fish & Aquatic Life	PN	100	Open Cut
26.2	026S1	Unnamed tributary to E. Branch Rock River	Fish & Aquatic Life	IT	< 10	Open Cut
30.8	030S1	Unnamed tributary to Kummel Creek	Fish & Aquatic Life	IT	< 10	Open Cut
32.3	032S1	Kummel Creek	Fish & Aquatic Life	PN	25	Open Cut
37.8	037S1	W. Branch Milwaukee River	Fish & Aquatic Life	PN	30	Open Cut

**Guardian Pipeline Expansion and Extension Project
Waterbodies Crossed by the Proposed Pipeline a/**

Approx. Milepost	Feature ID	Waterbody Name <u>b/</u>	Water Quality Classification <u>c/</u>	Flow Regime <u>d/</u>	Approx. Water Width (ft) <u>e/</u>	Crossing Method
37.9	037S2	Unnamed tributary to W. Branch Milwaukee River	Fish & Aquatic Life	IT	< 10	Open Cut
39.1	039S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
39.1	039S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
40.3	040S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
40.4	040S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
41.4	041S1	Unnamed Stream	Limited Forage Fish	IT	< 10	Open Cut
41.8	041S2	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
42.4	042S1	Unnamed tributary to De Neveu Creek	Limited Forage Fish	PN	< 10	Open Cut
42.6	042S2	Unnamed tributary to De Neveu Creek	Limited Forage Fish	IT	< 10	Open Cut
42.8	042S3	Unnamed tributary to De Neveu Creek	Limited Forage Fish	PN	< 10	Open Cut
44.6	044S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
46.0	046S1	Unnamed tributary to Taycheedah Creek	Fish & Aquatic Life	PN	< 10	Open Cut
46.7	046S2	Unnamed tributary to Taycheedah Creek	Fish & Aquatic Life	IT	< 10	Open Cut
47.2	047S1	Taycheedah Creek	Fish & Aquatic Life	PN	< 10	Open Cut
49.2	049S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
49.3	049S2	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
49.4	049S3	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
49.4	049S4	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
51.4	051S1	Sheboygan River	Limited Forage Fish	PN	< 10	Open Cut
52.8	052S1	Unnamed Stream	Limited Forage Fish	IT	< 10	Open Cut
56.4	056S1	S. Branch Manitowoc River	Fish & Aquatic Life	PN	20	Open Cut
57.7	057S2	Pipe Creek	Fish & Aquatic Life	PN	< 10	Open Cut
60.3	060P1	Unnamed Pond	N/A	N/A	75	Open Cut
60.6	060S1	<i>Unnamed tributary to S. Branch Manitowoc River</i>	<i>Fish & Aquatic Life</i>	<i>PN</i>	<i>< 10</i>	<i>Open Cut</i>
65.0	065S1	Unnamed tributary to S. Branch Manitowoc River	Fish & Aquatic Life	IT	< 10	Open Cut
66.2	066S1	Unnamed tributary to Stony Brook	Fish and Aquatic Life	IT	< 10	Open Cut
66.8	066S2	Stony Brook	Fish and Aquatic Life	PN	20	Open Cut
71.0	071S1	Killsnake River	Fish & Aquatic Life	PN	20	Open Cut
72.1	072S1	Unnamed tributary to Killsnake River	Fish & Aquatic Life	IT	< 10	Open Cut
72.8	072S1	Unnamed tributary to Killsnake River	Fish & Aquatic Life	IT	< 10	Open Cut
73.1	073S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
73.4	073S2	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
73.9	073S3	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
74.3	074S1	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
74.7	074S2	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
74.8	074S3	Unnamed Stream	Fish & Aquatic Life	IT	< 10	Open Cut
75.4	075S1	<i>Unnamed tributary to N. Branch Manitowoc River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
76.2	075S1	Unnamed tributary to N. Branch Manitowoc River	Limited Forage Fish	IT	< 10	Open Cut
76.8	076S2	<i>Unnamed tributary to N. Branch Manitowoc River</i>	<i>Limited Forage Fish</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>

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Approx. Milepost	Feature ID	Waterbody Name <u>b/</u>	Water Quality Classification <u>c/</u>	Flow Regime <u>d/</u>	Approx. Water Width (ft) <u>e/</u>	Crossing Method
77.6	077S1	Unnamed tributary to N. Branch Manitowoc River	Limited Forage Fish	IT	< 10	Open Cut
77.9	077S2	Unnamed tributary to N. Branch Manitowoc River	Limited Forage Fish	IT	< 10	Open Cut
78.9	078S1	Unnamed tributary to N. Branch Manitowoc River	Limited Forage Fish	IT	< 10	Open Cut
78.9	078S2	Unnamed tributary to N. Branch Manitowoc River	Limited Forage Fish	IT	< 10	Open Cut
79.8	079S1	Kankapot Creek	Fish & Aquatic Life	PN	< 10	Open Cut
80.6	080S3	Unnamed tributary to Plum Creek	Fish & Aquatic Life	IT	< 10	Open Cut
80.9	080S1	<i>Unnamed tributary to Plum Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
83.8	083S2	<i>Unnamed tributary to Plum Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
85.1	085S1	Unnamed tributary to Plum Creek	Fish & Aquatic Life	IT	< 10	Open Cut
85.4	085S2	Plum Creek	Fish & Aquatic Life	PN	< 10	Open Cut
87.3	087S1	Unnamed tributary to East River	Fish & Aquatic Life	IT	< 10	Open Cut
87.4	087S2	Unnamed tributary to East River	Fish & Aquatic Life	IT	< 10	Open Cut
88.5	088S1	<i>Unnamed tributary to East River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
89.1	089S1	<i>Unnamed tributary to East River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
90.6	090S1	<i>Unnamed tributary to Fox River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
90.9	090S2	Fox River	Fish & Aquatic Life	PN	500	HDD
91.1	091S1	Apple Creek	Fish & Aquatic Life	PN	50	HDD ^{b/}
91.7	091S2	<i>Unnamed tributary to Fox River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
93.1	093S1	<i>Unnamed tributary to Ashwaubenon Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
94.2	094S1	Ashwaubenon Creek	Fish & Aquatic Life	IT	<10	Open Cut
94.6	094S2	<i>Unnamed tributary to Ashwaubenon Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
95.4	095S1	<i>South Branch Ashwaubenon Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i><10</i>	<i>Open Cut</i>
99.6	099S1	N. Branch Ashwaubenon Creek	Fish & Aquatic Life	IT	< 10	Open Cut
100.2	100S1	<i>Unnamed tributary to Dutchman Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
100.5	100S2	<i>Unnamed tributary to Dutchman Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
100.6	100S3	<i>Unnamed tributary to Dutchman Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
102.0	102S1	Duck Creek	Fish & Aquatic Life	PN	35	Open Cut
102.4	102S2	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
102.6	102S3	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
102.9	102S4	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>
103.7	103S1	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	<i>< 10</i>	<i>Open Cut</i>

**Guardian Pipeline Expansion and Extension Project
Waterbodies Crossed by the Proposed Pipeline a/**

Approx. Milepost	Feature ID	Waterbody Name <u>b/</u>	Water Quality Classification <u>c/</u>	Flow Regime <u>d/</u>	Approx. Water Width (ft) <u>e/</u>	Crossing Method
104.2	104S1	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
104.3	104S2	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
105.2	105S1	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
105.3	105S2	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
106.1	106S1	<i>Unnamed tributary to Duck Creek</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
112.9	113S1	<i>Unnamed Stream</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
113.0	113S1	<i>Unnamed Stream</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
114.9	114S1	<i>Unnamed tributary to S. Branch Suamico River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
117.0	117S1	<i>S. Branch Suamico River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
117.2	117S2	<i>Unnamed tributary to S. Branch Suamico River</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>
20-Inch Southwest Green Bay Branch Line						
0.3	SW00S1	<i>Unnamed Stream</i>	<i>Fish & Aquatic Life</i>	<i>IT</i>	< 10	<i>Open Cut</i>

a/ Based on USGS Mapping, the Wisconsin DNR 24k Hydrography layer (<http://maps.dnr.state.wi.us>), and Guardian's field surveys to date. Italicized rows indicate areas where field investigations have not been completed due to a lack of access.

b/ Waterbody names are based on Wisconsin DNR 24k Hydrography layer naming conventions.

c/ **Fish & Aquatic Life** – The Default use designation that applies to surface waters when the WDNR has not completed a formal site visit of a stream segment. The default use designation is used to make decisions for issuing discharge permits unless an alternate use designation is specified in either Ch. NR 102 or Ch. NR 104 of the Wisconsin Administrative Code. The default use designation is equivalent to a Warm Water Sport Fish Community classification.

Warm Water Sport Fish Community – Surface waters assigned this use designation support a diverse community of game fish, forage fish, and other aquatic life that are not tolerant to organic pollution. Wastewater discharges to these waterways may not lower the dissolved oxygen content in the water to less than 5 mg/L.

Limited Forage Fish Community – Surface waters assigned this use designation support a community of forage fish and other non-fish aquatic life that are moderately tolerant to organic pollution. Wastewater discharges to these waterways may not lower the dissolved oxygen content in the water to less than 3 mg/L.

Limited Aquatic Life Community – Surface waters assigned this use designation support a community of a small number of forage fish species and other non-fish aquatic life species that are very tolerant to organic pollution. Wastewater discharges to these waterways may not lower the dissolved oxygen content in the water to less than 1 mg/L.

d/ Based on Wisconsin DNR 24k Hydrography layer designations and aerial photography interpretation and/or site visit for unmapped streams:

IT = Intermittent

PN = Perennial

e/ Estimated from 2005 and 2006 aerial photography.

f/ Proposed as Limited Aquatic Life.

g/ Blasting is likely necessary to install this crossing.

h/ Apple Creek will be crossed as part of the proposed Fox River HDD.