

ATTACHMENT A

Natural Resource and Water Supply Summary Tables and Figures

Line 3 Replacement Project Route Alternative (RA)-07

DRAFT

Table 1 Line 3 Replacement Project – RA-07-L3 Summary of Public Waters Inventory Streams Crossed by the Proposed Route Alternative Centerline and within the 2,000-ft-wide Route Alternative Corridor in Minnesota		
Watershed County	Number Crossed by the Proposed Route Alternative Centerline ^a	Miles Within the 2,000-ft-wide Route Alternative Corridor ^b
Clearwater	9	6.3
Clearwater	7	5.6
Beltrami	2	0.7
Mississippi Headwaters	10	5.9
Beltrami	5	3.4
Cass	1	0.6
Itasca	4	2.0
Leech Lake	3	5.4
Hubbard	3	5.4
Prairie-Willow	4	2.1
Itasca	4	2.1
St. Louis	7	4.1
St. Louis	5	3.0
Carlton	2	1.1
Grand Total ^c	33	23.8
<i>Public Waters Inventory (PWI) Stream Data Source: https://gisdata.mn.gov/dataset/water-mn-public-waters</i> a Number of Public Waters Inventory streams crossed by the proposed route alternative centerline. b Total miles of Public Waters Inventory stream segment(s) crossed by the 2000-ft-wide route alternative corridor. c Numbers may not total consistently due to rounding.		

Table 2
Line 3 Replacement Project – RA-07-L3
Summary of Waterbodies Crossed by the Proposed Route Alternative Centerline
and within the 2,000-ft-wide Route Alternative Corridor in Minnesota

Watershed County	Number Crossed by the Proposed Route Alternative Centerline ^a				Miles Within the 2,000-ft-wide Route Alternative Corridor ^b			
	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total ^c	Perennial	Intermittent	Canal/Ditch/ Artificial Path/ Connector	Total ^c
Clearwater	6	4	2	12	5.1	2.6	0.8	8.5
Clearwater	4	4	2	10	4.3	2.6	0.8	7.6
Beltrami	2	-	-	2	0.8	-	-	0.8
Mississippi Headwaters	12	4	4	20	7.0	2.3	3.4	12.7
Beltrami	6	-	-	6	3.7	-	0.1	3.8
Itasca	4	4	3	11	2.4	1.5	2.2	6.1
Hubbard	-	-	-	-	-	-	<0.1	<0.1
Cass	2	-	1	3	0.9	0.8	1.1	2.9
Leech Lake	2	7	5	14	1.7	7.4	3.7	12.8
Beltrami	-	3	-	3	-	1.4	-	1.4
Hubbard	-	4	-	4	-	5.9	0.2	6.1
Cass	2	-	5	7	1.7	0.1	3.5	5.3
Prairie-Willow	2	4	4	10	1.8	1.9	1.6	5.2
Itasca	2	4	4	10	1.8	1.9	1.6	5.2
St. Louis	11	2	10	23	5.2	1.0	18.7	24.9
Itasca	-	-	2	2	-	-	11.0	11.0
Aitkin	-	-	2	2	-	-	3.1	3.1
St. Louis	5	2	4	11	2.9	1.0	3.7	7.6
Carlton	6	-	2	8	2.3	-	0.9	3.2
Grand Total ^c	33	21	25	79	20.9	15.2	28.1	64.2

USGS National Hydrography Dataset (NHD) Data Source: <ftp://nhdftp.usgs.gov/DataSets/Staged/States/FileGDB/HighResolution/>

a Number of NHD waterbodies crossed by the proposed route alternative centerline.

b Miles of NHD stream segment(s) crossed by the 2000-ft-wide route alternative corridor.

c Numbers may not total consistently due to rounding.

Table 3
Line 3 Replacement Project – RA-07-L3
Summary of USFWS National Wetlands Inventory Crossed by the Route Alternative Proposed Centerline
and within the 2,000-ft-wide Route Alternative Corridor in Minnesota

Watershed County	Miles Crossed by the Proposed Route Alternative Centerline ^a				Acres Within the 2,000-ft-wide Route Alternative Corridor ^b			
	PEM ^c	PFO/PSS ^c	Pond/Lake/ Riverine	Total ^d	PEM ^c	PFO/PSS ^c	Pond/Lake/ Riverine	Total ^d
Clearwater	0.8	0.6	0.3	1.7	258.5	223.9	83.5	565.9
Beltrami	0.2	-	-	0.2	59.5	7.1	4.8	71.5
Clearwater	0.5	0.6	0.3	1.5	199.0	216.7	78.7	494.4
Mississippi Headwaters	1.8	8.1	0.1	10.0	679.6	2001.2	378.9	3059.7
Beltrami	0.3	0.8	-	1.1	136.9	201.0	64.0	401.9
Cass	0.5	2.8	0.1	3.3	262.3	483.8	237.7	983.8
Hubbard	-	0.1	-	0.1	6.4	19.6	31.8	57.8
Itasca	1.0	4.5	-	5.5	274.1	1296.7	45.5	1616.2
Leech Lake	1.4	7.3	-	8.7	334.3	1750.4	68.2	2153.0
Beltrami	-	-	-	-	2.4	9.4	0.6	12.3
Cass	1.2	6.9	-	8.1	258.5	1388.9	63.5	1711.0
Hubbard	0.1	0.5	-	0.6	73.4	352.2	4.1	429.7
Prairie-Willow	0.5	5.9	0.1	6.4	180.2	1378.2	82.6	1641.0
Itasca	0.5	5.9	0.1	6.4	180.2	1378.2	82.6	1641.0
Kettle	0.5	0.2	-	0.7	54.2	78.1	1.4	133.7
Carlton	0.5	0.2	-	0.7	54.2	78.1	1.4	133.7
Beartrap-Nemadji		-	-	-	-	0.4	0.9	1.3
Carlton		-	-	-	-	0.4	0.9	1.3
St. Louis	1.3	18.2	0.1	19.6	234.7	4597.5	32.7	4864.9
Aitkin	-	1.1	-	1.1	2.6	271.7	-	274.3
Carlton	0.6	6.0	0.1	6.7	111.8	1385.8	14.9	1512.5
Itasca	0.3	4.2	-	4.5	49.0	917.1	-	966.1
St. Louis	0.4	6.9	-	7.3	71.3	2022.9	17.8	2111.9
Grand Total ^d	6.2	40.3	0.7	47.3	1741.6	10029.7	648.1	12419.5

USFWS National Wetlands Inventory (NWI) Data Source: <http://www.fws.gov/wetlands/data/Data-Download.html>

a Total miles of NWI crossed by the proposed route alternative centerline.

b Total acres of NWI within the 2000-ft-wide route alternative corridor.

c PEM = Palustrine Emergent; PSS = Palustrine Scrub Shrub; PFO = Palustrine Forested (Cowardin et al. 1979).

d Numbers may not total consistently due to rounding.

Table 4 Line 3 Replacement Project – RA-07-L3 Summary of Public Waters Inventory Wetlands and Basins Crossed by the Proposed Route Alternative Centerline and within the 2,000-ft-wide Route Alternative Corridor in Minnesota				
Watershed County	Miles Crossed by the Route Alternative Centerline ^a		Acres Within the Route Alternative Corridor ^b	
	Wetlands	Basins	Wetlands	Basins
Clearwater	-	0.4	2.3	144.8
Clearwater	-	0.4	2.3	135.0
Beltrami	-	-	-	9.9
Mississippi Headwaters	-	1.1	27.3	586.2
Beltrami	-	-	11.7	59.1
Hubbard	-	-	-	41.5
Cass	-	0.2	15.7	290.4
Itasca	-	1.0	-	195.2
Leech Lake	-	0.4	-	124.6
Cass	-	0.4	-	124.6
Prairie-Willow	-	-	36.8	39.3
Itasca	-	-	36.8	39.3
St. Louis	-	-	-	42.4
Itasca	-	-	-	42.4
Grand Total ^c	-	2.0	66.4	937.3
<i>PWI Wetland and Basin Data Source: https://gisdata.mn.gov/dataset/water-mn-public-waters</i> a Total miles of PWI wetlands and basins crossed by the route alternative centerline. b Total acres of PWI wetlands and basins crossed by the 2000-ft-wide route alternative corridor. c Numbers may not total consistently due to rounding.				

Table 5 Line 3 Replacement Project – RA-07-L3 Summary of Trout Streams Crossed by the Proposed Route Alternative Centerline and within the 2,000-ft-wide Route Alternative Corridor in Minnesota		
Watershed County	Number Crossed by the Proposed Route Alternative Centerline ^a	Miles Within the 2,000-ft-wide Route Alternative Corridor ^b
Clearwater	2	0.8
Beltrami	2	0.8
Leech Lake	3	5.6
Hubbard	3	5.6
St. Louis	1	1.3
Carlton	1	1.3
Grand Total ^c	6	7.7
<i>Trout Stream Data Source: https://gisdata.mn.gov/dataset/env-trout-stream-designations</i> ^a Number of trout streams crossed by the route alternative centerline. ^b Total miles of trout stream segment(s) crossed by the 2000-ft-wide route alternative corridor. ^c Numbers may not total consistently due to rounding.		

Table 6 Line 3 Replacement Project – RA-07-L3 Wells within the 2,000-ft-wide Route Alternative Corridor in Minnesota^a				
Watershed Name	County	Well Type	Distance from Centerline (feet)	Total Number of Wells
Clearwater	Clearwater	Abandoned	239	5
			309	
			540	
			383	
			225	
		Domestic	490	6
			463	
			398	
			985	
			828	
			266	
		Monitoring	40	3
			236	
			292	
Mississippi Headwaters	Beltrami	Abandoned	226	3
			871	
			338	
		Dewatering	977	1
		Domestic	142	27
			687	
			969	
			375	
			301	
			889	
			402	
			858	
			829	
			641	
			910	
			755	
			819	
			603	
			720	
			838	
			471	
			648	
			857	
			578	
			130	

Mississippi Headwaters (cont.)	Beltrami (cont.)	Domestic (cont.)	335	27 (cont.)
			959	
			499	
			349	
			146	
			675	
		Monitoring	47	12
			45	
			121	
			232	
			263	
			280	
			982	
			917	
			65	
			230	
			198	
			79	
		Observation	21	43
			335	
			167	
			8	
			53	
			50	
			84	
			117	
			30	
			215	
			135	
			207	
			141	
			92	
			478	
			367	
			300	
			370	
			297	
			530	
			329	
			437	
			358	
			327	
			518	
			512	

Mississippi Headwaters (cont.)	Beltrami (cont.)	Observation (cont.)	425	43 (cont.)
			457	
			328	
			484	
			568	
			459	
			747	
			631	
			722	
			683	
			748	
			693	
			686	
			829	
			67	
			936	
			394	
		Scientific Investigation	764	1
		Unknown	280	1
Leech Lake	Beltrami	Domestic	459	5
			856	
			136	
			913	
			559	
	Hubbard	Domestic	480	13
			508	
			197	
			405	
			173	
			367	
			149	
			365	
			130	
			705	
			464	
			460	
			247	
Mississippi Headwaters	Hubbard	Abandoned	272	5
			248	
			269	
			258	
			290	
		Test Well	55	1

Mississippi Headwaters (cont.)	Cass	Abandoned	828	3
			666	
			725	
		Domestic	722	14
			935	
			23	
			495	
			871	
			863	
			884	
			654	
			659	
			773	
			219	
			198	
			103	
			928	
		Monitoring	299	42
			387	
			292	
			155	
			146	
			208	
			329	
			203	
			15	
			83	
			161	
			148	
			223	
			273	
			220	
			229	
			237	
			713	
			680	
			74	
			78	
			957	
			972	
			883	
			904	
			848	
			816	

Mississippi Headwaters (cont.)	Cass (cont.)	Monitoring (cont.)	810	42 (cont.)
			752	
			747	
			918	
			691	
			675	
			662	
			668	
			854	
			484	
			489	
			824	
			80	
			245	
			83	
		Observation	6	1
		Other	240	1
		Pump Out	273	9
			681	
			497	
			996	
			921	
			847	
			786	
			720	
			662	
		Remedial	311	2
			304	
		Test Well	934	1
Leech Lake	Cass	Domestic	905	1
		Environ. Bore Hole	79	3
			8	
			18	
		Test Well	13	1
Mississippi Headwaters	Cass	Test Well	369	1
Leech Lake	Cass	Abandoned	657	1
		Domestic	558	8
			827	
			477	
			951	
			751	
			801	
			520	

Leech Lake (cont.)	Cass (cont.)	Domestic (cont.)	365	8 (cont.)
		Monitoring	163	1
Mississippi Headwaters	Itasca	Abandoned	453	2
			80	
		Domestic	253	30
			242	
			784	
			904	
			467	
			323	
			221	
			381	
			73	
			362	
			324	
			366	
			375	
			151	
			606	
			167	
			332	
			129	
			669	
			570	
			178	
			724	
			328	
			399	
			711	
			740	
			326	
			354	
			876	
			520	
Prairie-Willow	Itasca	Abandoned	68	3
			272	
			964	
		Domestic	964	52
			302	
			439	
			255	
			265	
			494	
			225	

Prairie-Willow (cont.)	Itasca (cont.)	Domestic (cont.)	375	52 (cont.)
			597	
			442	
			403	
			577	
			506	
			637	
			741	
			984	
			359	
			720	
			950	
			985	
			924	
			814	
			421	
			912	
			566	
			508	
			51	
			38	
			691	
			451	
			494	
			707	
			773	
			399	
			900	
			377	
			926	
			554	
			653	
			207	
			140	
			427	
			147	
			238	
			258	
			323	
			519	
			498	
			815	
			659	
			456	
			368	

Prairie-Willow (cont.)	Itasca (cont.)	Exploration	829	12
			46	
			686	
			45	
			106	
			919	
			31	
			150	
			605	
			806	
			560	
			557	
		Unknown	870	1
St. Louis	Itasca	Domestic	790	1
	St. Louis	Abandoned	2	3
			7	
			10	
		Domestic	259	5
			284	
			588	
			749	
			728	
		Monitoring	426	8
			270	
			9	
			56	
			108	
			388	
			274	
			386	
	Carlton	Domestic	4	16
			732	
			904	
			634	
			609	
			515	
			94	
			561	
			293	
			435	
			21	
			655	

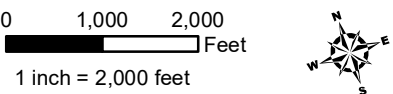
St. Louis (cont.)	Carlton (cont.)	Domestic (cont.)	576	16 (cont.)
			254	
			147	
			35	
		Monitoring	752	3
			693	
			747	
		Other	56	3
			54	
			54	

County Well Index (CWI) Data Source: ftp://mgssun6.mngs.umn.edu/pub2/cwi4/cwilocs_nps.zip
a Municipal wells are not included in the source data.

Table 7 Line 3 Replacement Project – RA-07-L3 Drinking Water Supply Management Areas (DWSMA) and Wellhead Protection Areas (WHPA) Crossed by the Proposed Route Alternative Centerline and within the 2,000-ft-wide Route Alternative Corridor in Minnesota					
Watershed	County	Approximate Stationing ^a	Name	Miles Crossed by the Route Alternative Centerline ^b	Acres Within the Route Alternative Corridor ^c
Mississippi Headwaters	Itasca	5278+00	Grand Rapids Central WHPA	-	12.7
		5287+00	Grand Rapids DWSMA	0.2	65.6
Prairie Willow	Itasca	5341+00	Grand Rapids Central Grand Rapids 2 WHPA (3 crossings)	2.4	523.9
		5361+00			
		5362+00	Grand Rapids DWSMA	2.6	688.7
		5415+00			
		5436+00			
DWSMA Data Source: https://qisdata.mn.gov/dataset/water-drinking-water-supply WHPA Data Source: https://qisdata.mn.gov/dataset/water-wellhead-protection-areas a Stationing for features not crossed by the centerline are interpolated based on the closest route alternative centerline stationing. b Total miles of DWSMA and WHPA crossed by the route alternative centerline. c Total acres of DWSMA and WHPA crossed by the 2000-ft-wide route alternative corridor.					

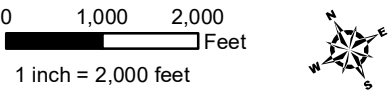
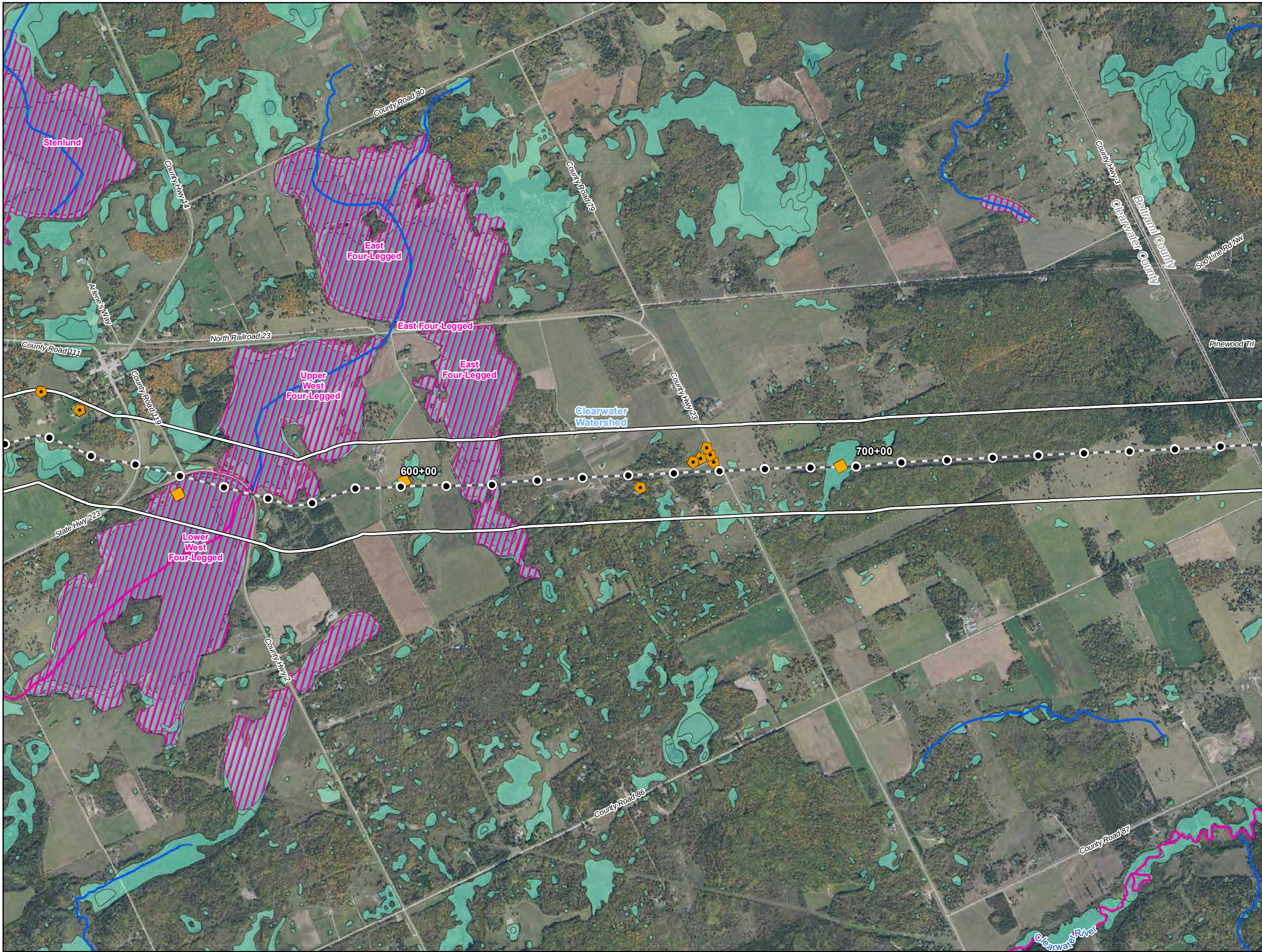
Table 8 Line 3 Replacement Project – RA-07-L3 Surface Water Intakes within the 2,000-ft-wide Route Alternative Corridor in Minnesota^a				
Watershed Name	County	Permit Type	Permit Status	Total
Clearwater	Clearwater	General Permit Authorization	Active	2
			Inactive	9
	Beltrami	General Permit Authorization	Inactive	2
	Clearwater	Individual Permit	Inactive	6
Mississippi Headwaters	Beltrami	General Permit Authorization	Active	2
			Inactive	3
		Individual Permit	Active	1
			Inactive	7
Leech Lake	Hubbard	General Permit Authorization	Inactive	10
		Individual Permit	Active	3
			Inactive	1
Mississippi Headwaters	Hubbard	General Permit Authorization	Active	1
			Inactive	4
	Cass	General Permit Authorization	Inactive	10
			Active	5
		Individual Permit	Inactive	2
			Active	2
Leech Lake	Cass	General Permit Authorization	Active	1
			Inactive	7
Mississippi Headwaters	Cass	General Permit Authorization	Active	1
Leech Lake	Cass	General Permit Authorization	Inactive	1
Mississippi Headwaters	Cass	Individual Permit	Inactive	1
Leech Lake	Cass	General Permit Authorization	Inactive	4
Mississippi Headwaters	Cass	General Permit Authorization	Inactive	1
Leech Lake	Cass	General Permit Authorization	Inactive	16
		Individual Permit	Inactive	2
Mississippi Headwaters	Cass	General Permit Authorization	Inactive	12
	Itasca	General Permit Authorization	Active	4
			Inactive	13
		Individual Permit	Active	1
			Inactive	8

Prairie-Willow	Itasca	General Permit Authorization	Inactive	5
		Individual Permit	Active	1
			Inactive	2
		General Permit Authorization	Active	2
			Inactive	7
Individual Permit	Inactive	9		
St. Louis	Itasca	General Permit Authorization	Active	1
			Inactive	9
		Individual Permit	Inactive	1
	Aitkin	General Permit Authorization	Inactive	3
	St. Louis	General Permit Authorization	Active	1
			Inactive	36
		Individual Permit	Inactive	1
	Carlton	General Permit Authorization	Active	4
			Inactive	11
Kettle	Carlton	General Permit Authorization	Inactive	1
St. Louis	Carlton	General Permit Authorization	Inactive	3
		Individual Permit	Inactive	6
MPARS Minnesota DNR, Ecological and Water Resources, Sean Hunt, 651-259-5679				
a Municipal wells are not included in the source data.				



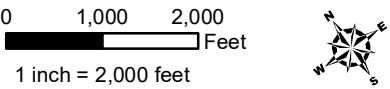
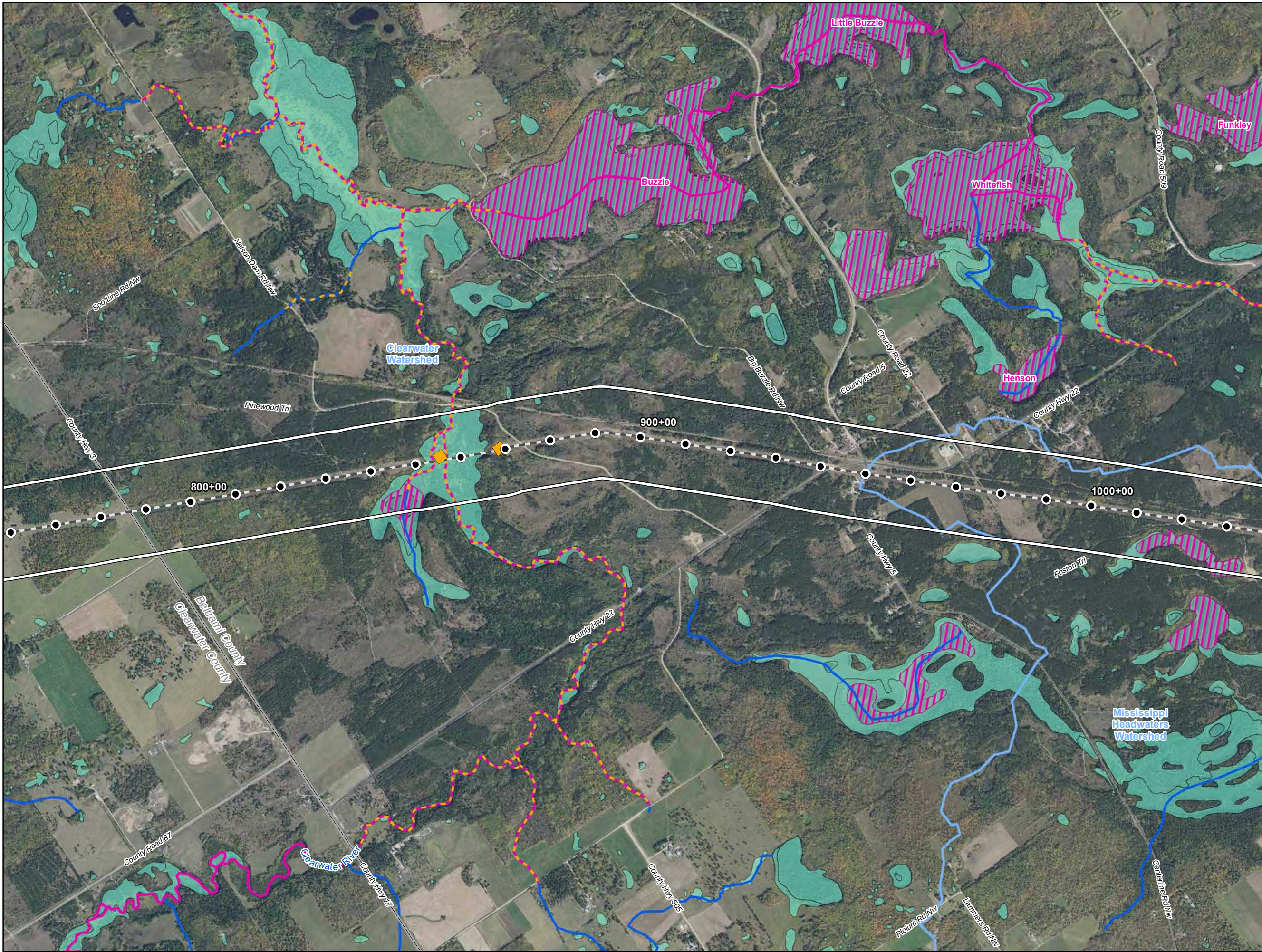
- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
- Trout Stream
- PWI Stream
- NHD Stream
- PWI Basin
- NWI
- Watershed Boundary
- WHPA
- DWSMA
- County Boundary

Figure 1
Line 3 Replacement Project
RA-07-L3
Enbridge
Clearwater County, Minnesota



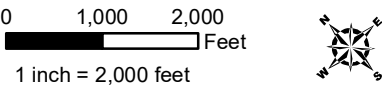
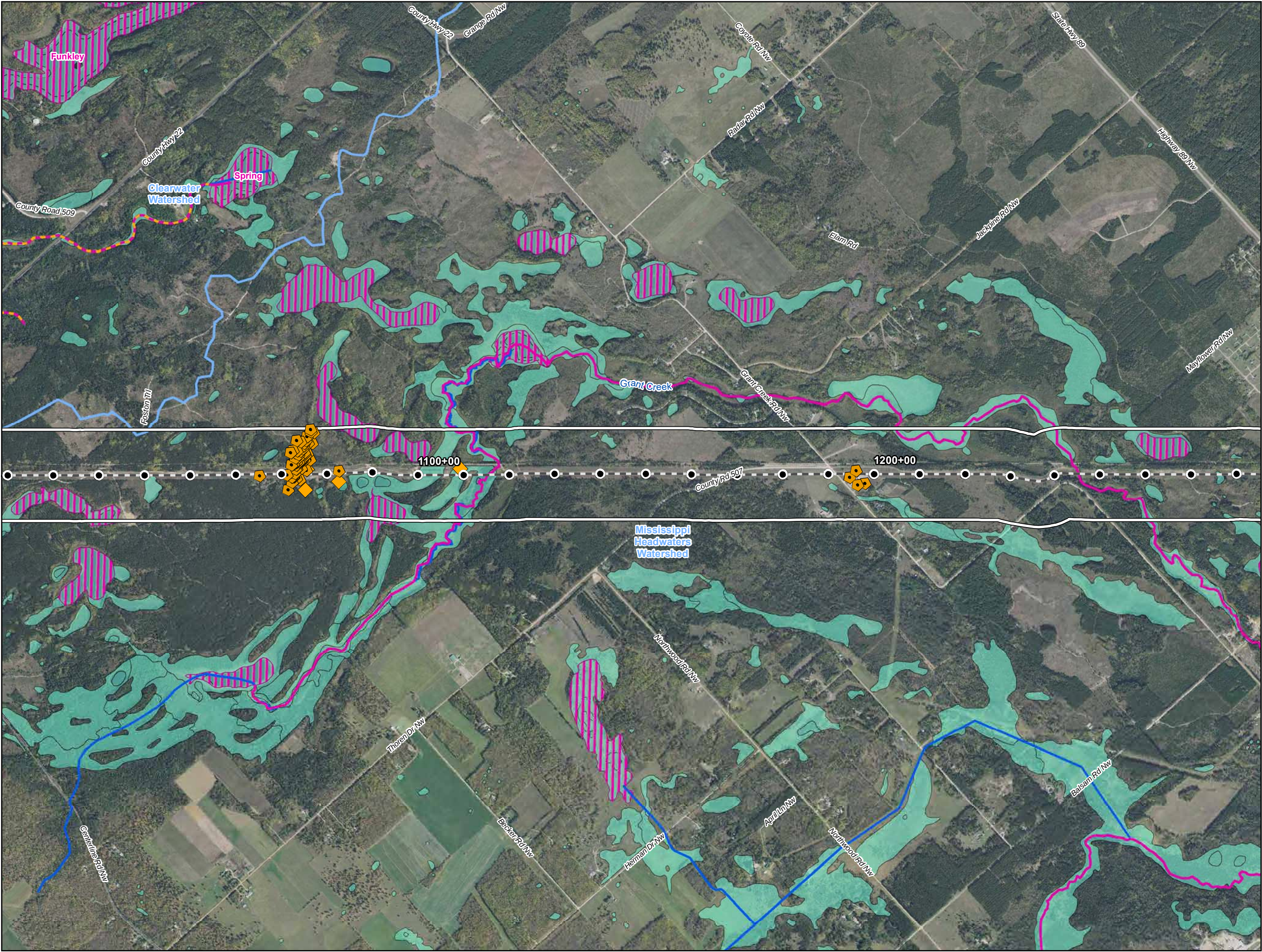
- Water Well
- Surface Water Intake
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- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
- Trout Stream
- PWI Stream
- NHD Stream
- PWI Basin
- NWI
- Watershed Boundary
- WHPA
- DWSMA
- County Boundary

Figure 3
Line 3 Replacement Project
RA-07-L3
Enbridge
Clearwater County, Minnesota



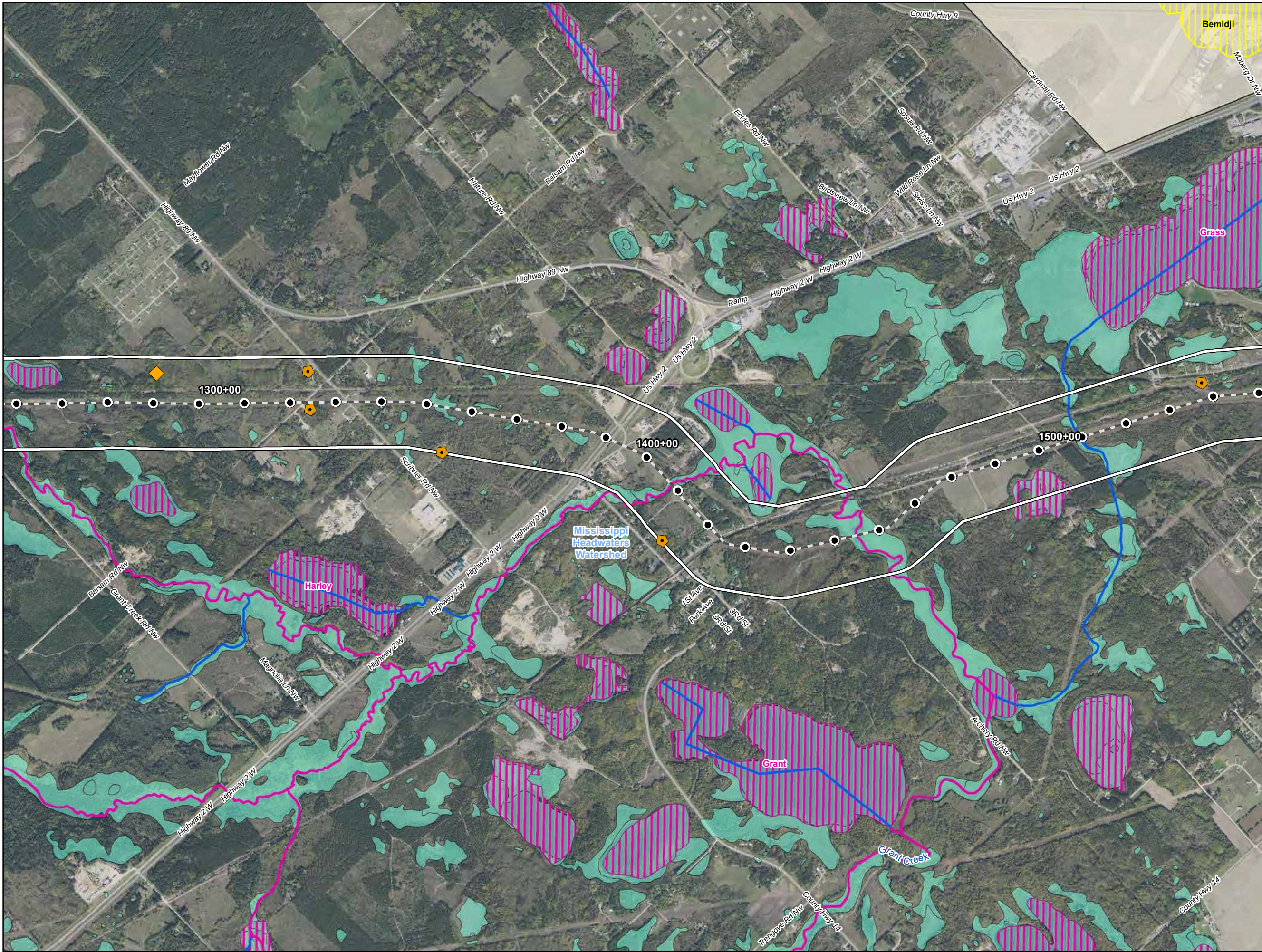
- Water Well
- Surface Water Intake
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- Line 3 Milepost
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- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
- Trout Stream
- PWI Stream
- NHD Stream
- PWI Basin
- NWI
- Watershed Boundary
- WHPA
- DWSMA
- County Boundary

Figure 4
Line 3 Replacement Project
RA-07-L3
Enbridge
Beltrami County, Minnesota



- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
- Trout Stream
- PWI Stream
- NHD Stream
- PWI Basin
- NWI
- Watershed Boundary
- WHPA
- DWSMA
- County Boundary

Figure 5
Line 3 Replacement Project
RA-07-L3
Enbridge
Beltrami County, Minnesota

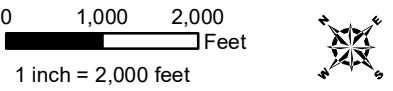
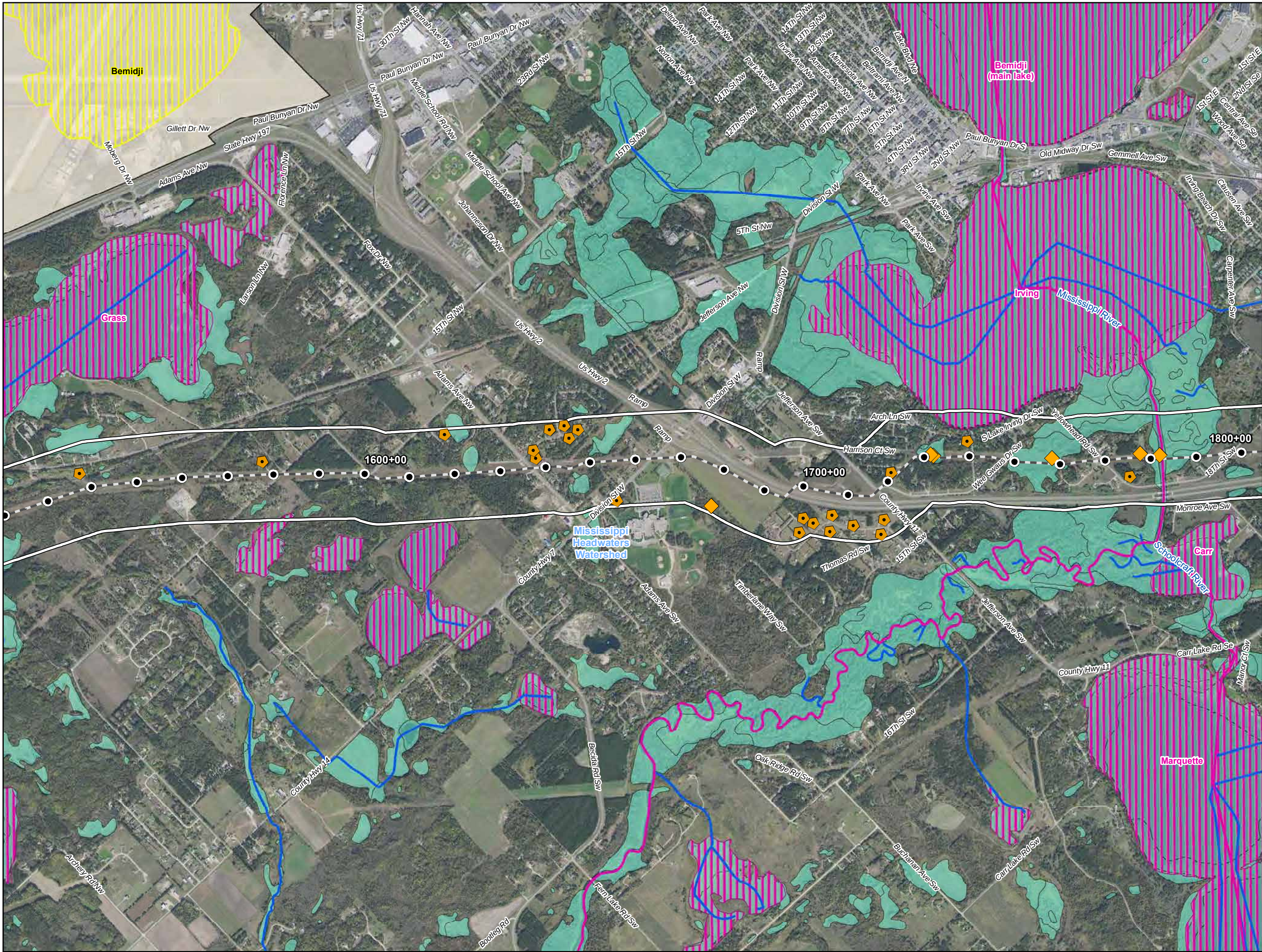


- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
- Trout Stream
- PWI Stream
- NHD Stream
- PWI Basin
- NWI
- Watershed Boundary
- WHPA
- DWSMA
- County Boundary

Figure 6
Line 3 Replacement Project
RA-07-L3
Enbridge
Beltrami County, Minnesota

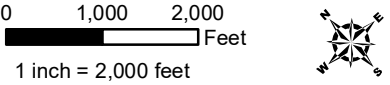
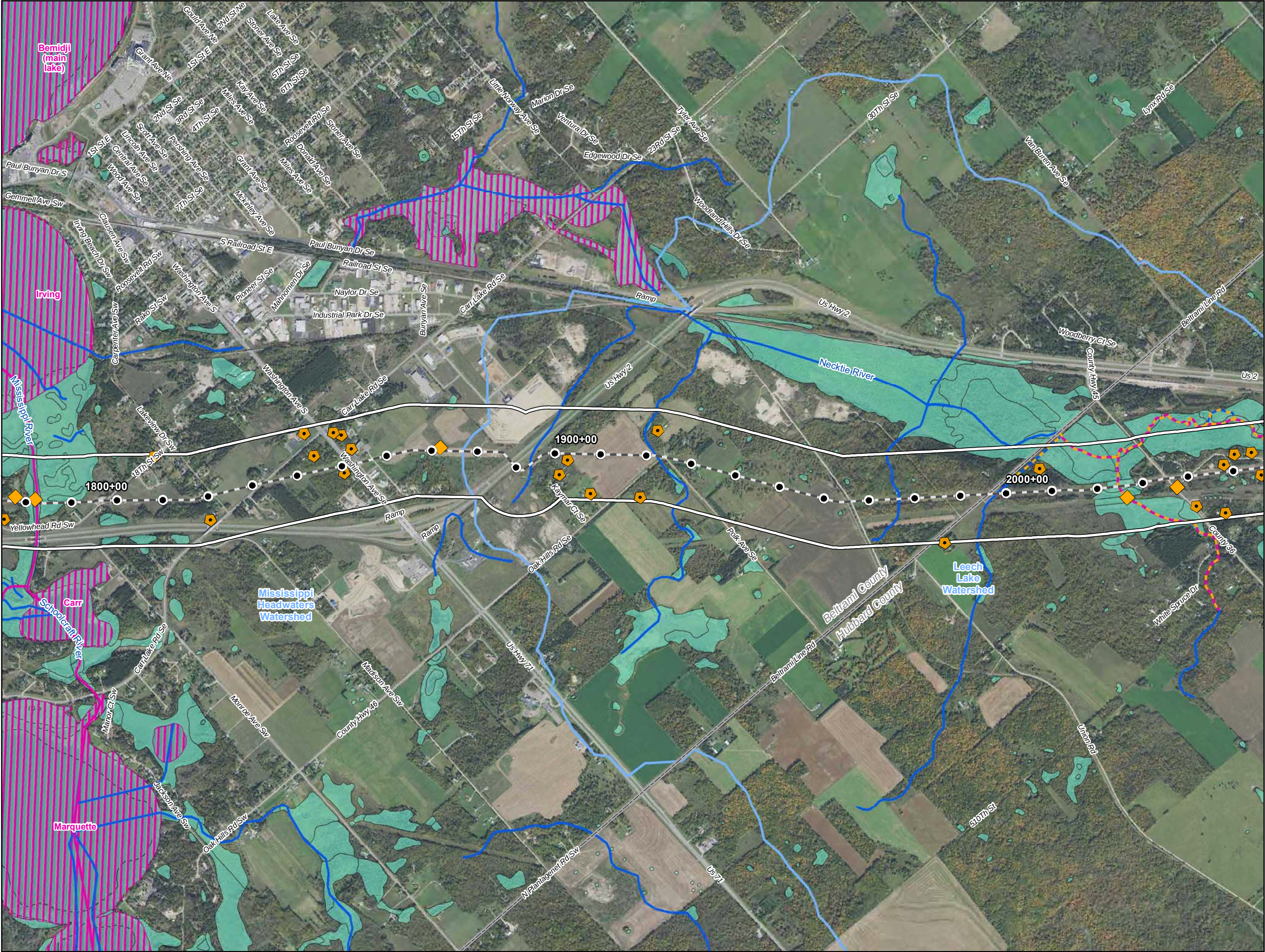
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Page 6 of 36

For Environmental Review Purposes Only



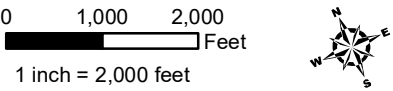
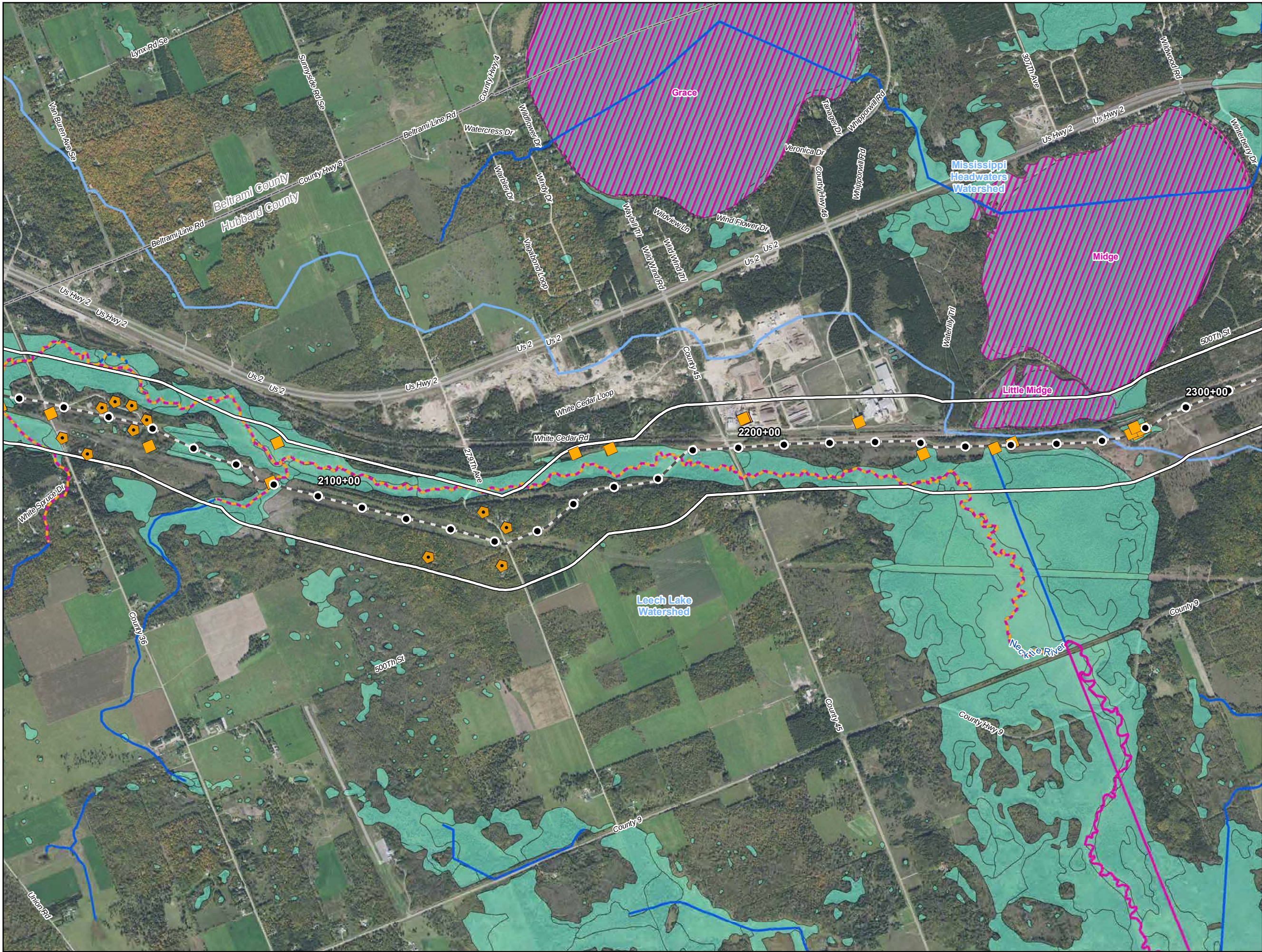
- Water Well
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- Alternative Stationing
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- DWSMA
- County Boundary

Figure 7
Line 3 Replacement Project
RA-07-L3
Enbridge
Beltrami County, Minnesota



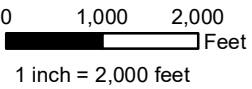
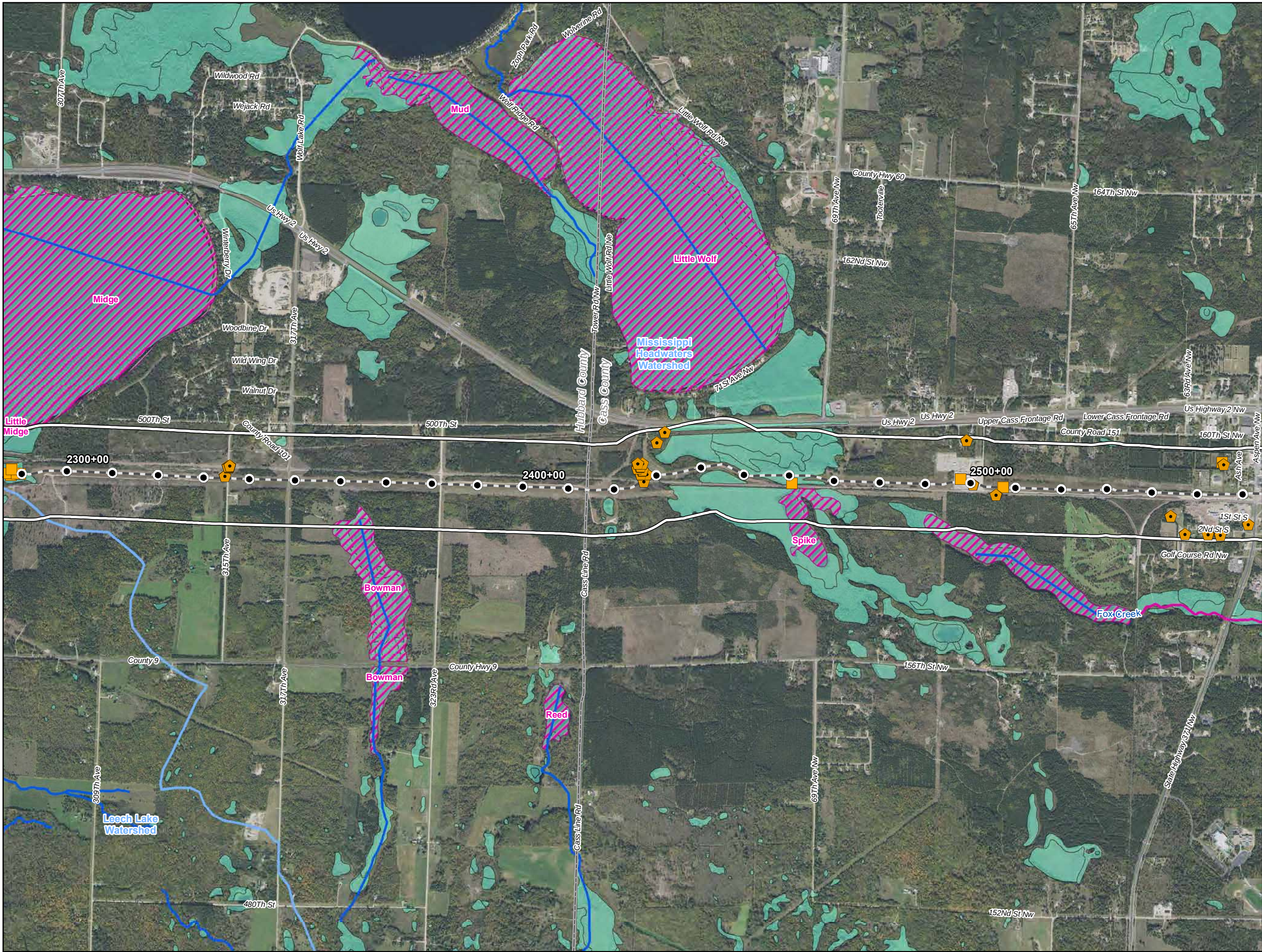
- Water Well
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- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
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- WHPA
- DWSMA
- County Boundary

Figure 8
Line 3 Replacement Project
RA-07-L3
Enbridge
Beltrami County, Minnesota



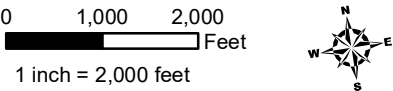
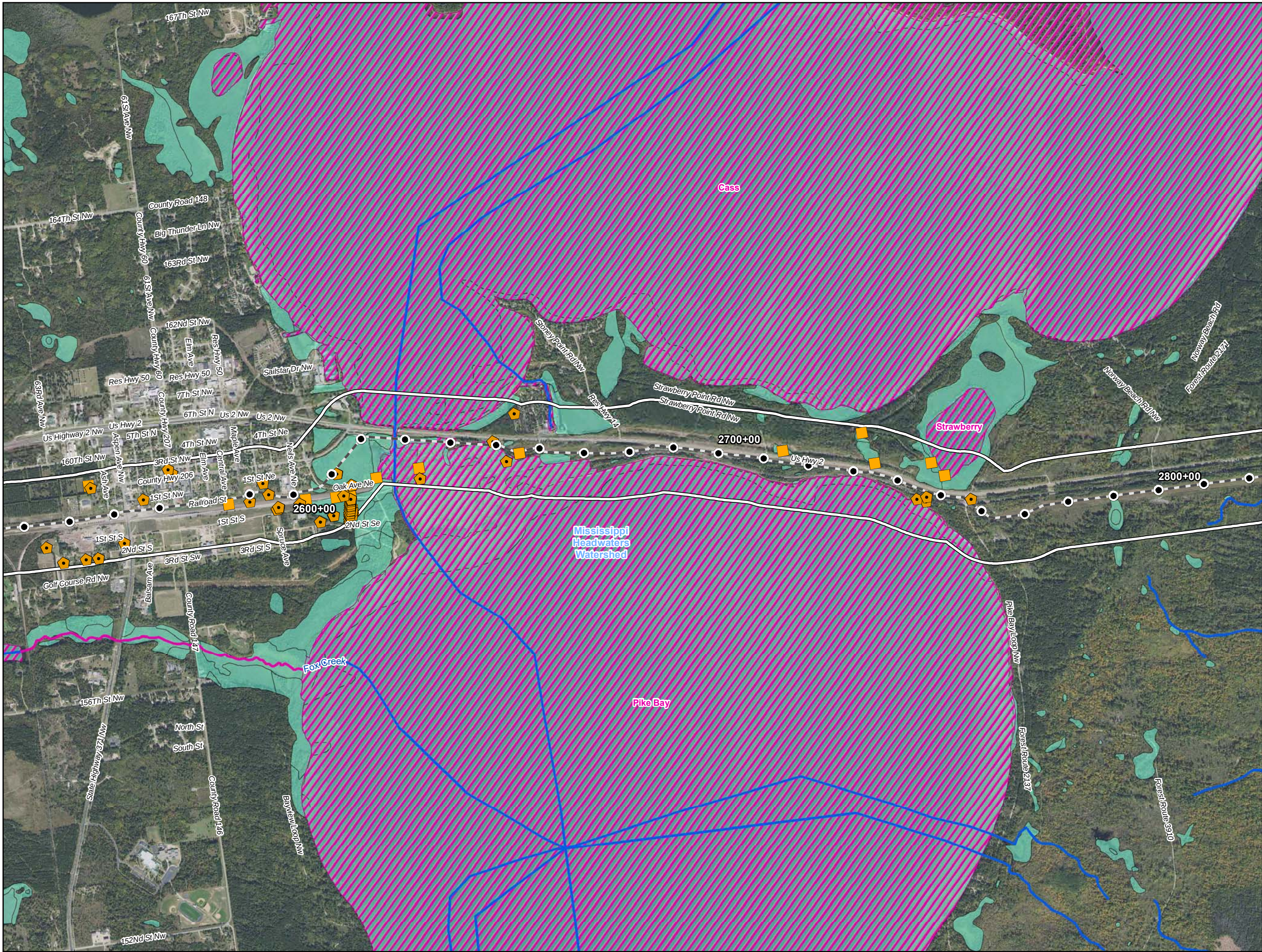
- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
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- WHPA
- DWSMA
- County Boundary

Figure 9
Line 3 Replacement Project
RA-07-L3
Enbridge
Hubbard County, Minnesota



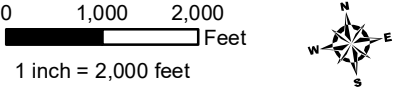
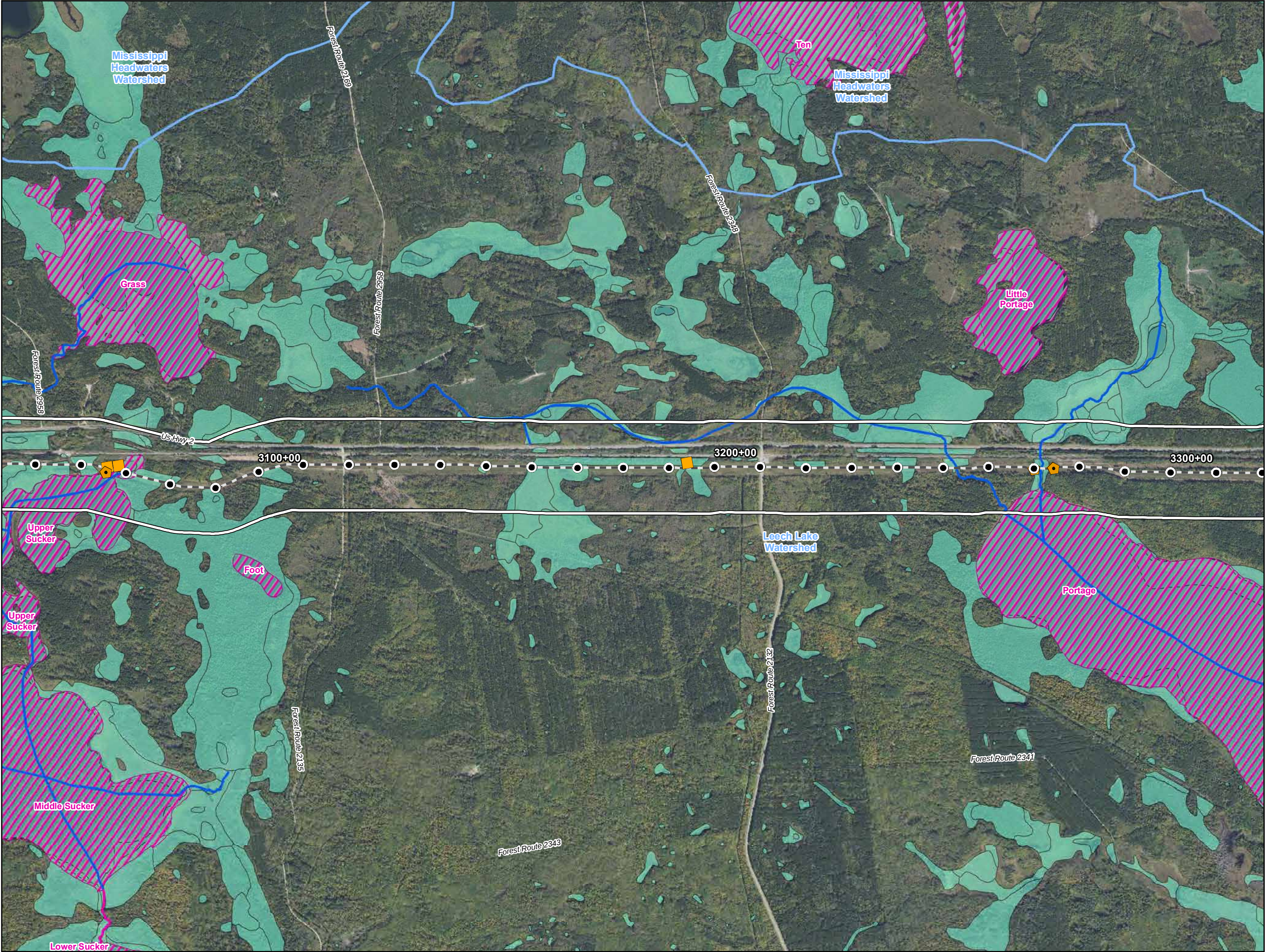
- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
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- DWSMA
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Figure 10
Line 3 Replacement Project
RA-07-L3
Enbridge
Cass County, Minnesota



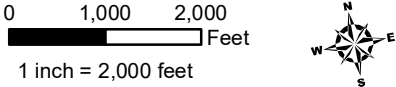
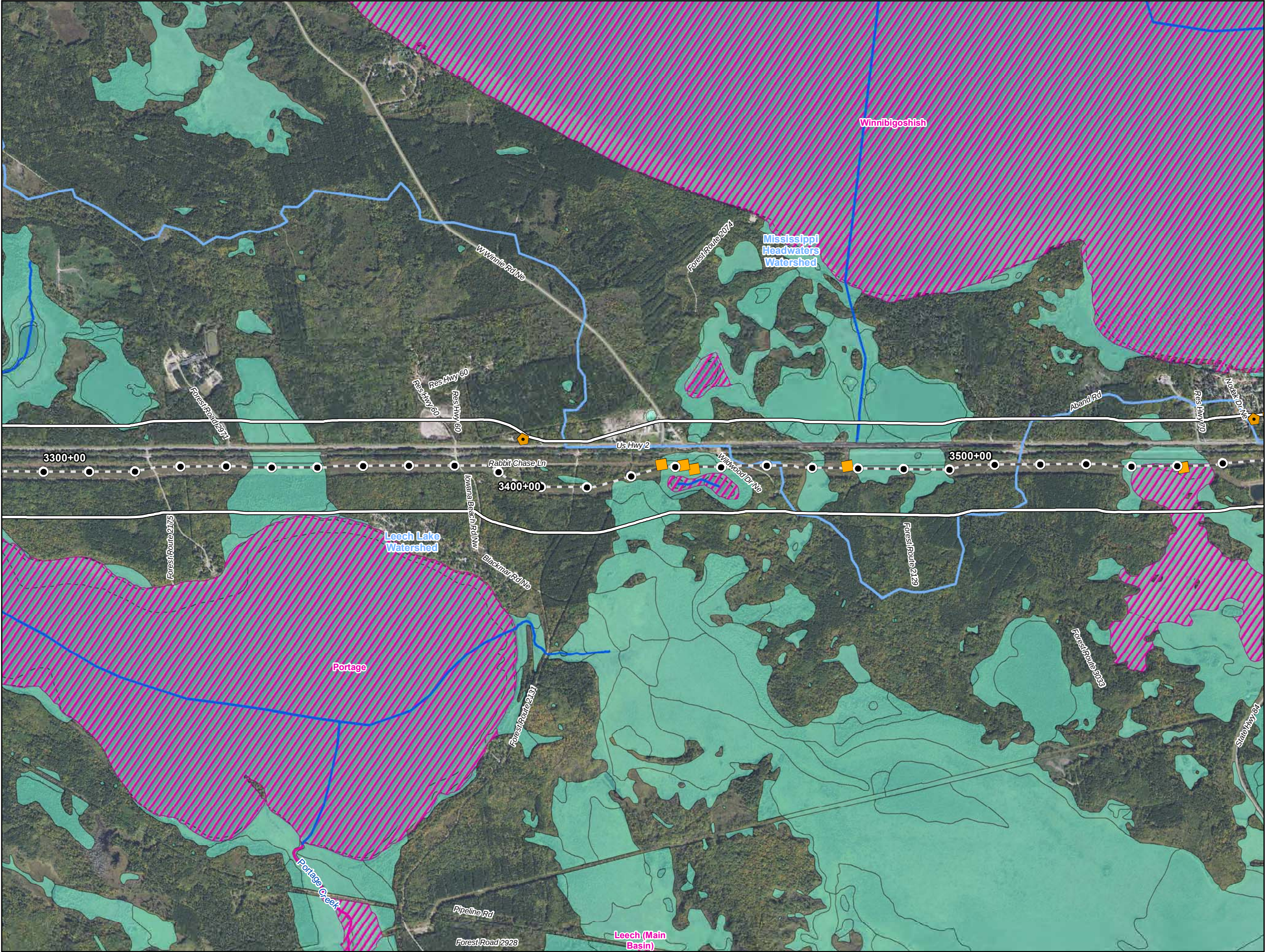
- Water Well
- Surface Water Intake
- Calcareous Fen
- Line 3 Milepost
- Alternative Stationing
- Proposed Line 3 Replacement Pipeline
- Alternative Centerline
- 2,000 ft Alternative Corridor
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Figure 11
Line 3 Replacement Project
RA-07-L3
Enbridge
Cass County, Minnesota



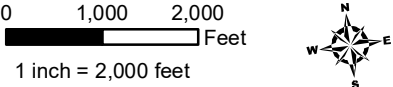
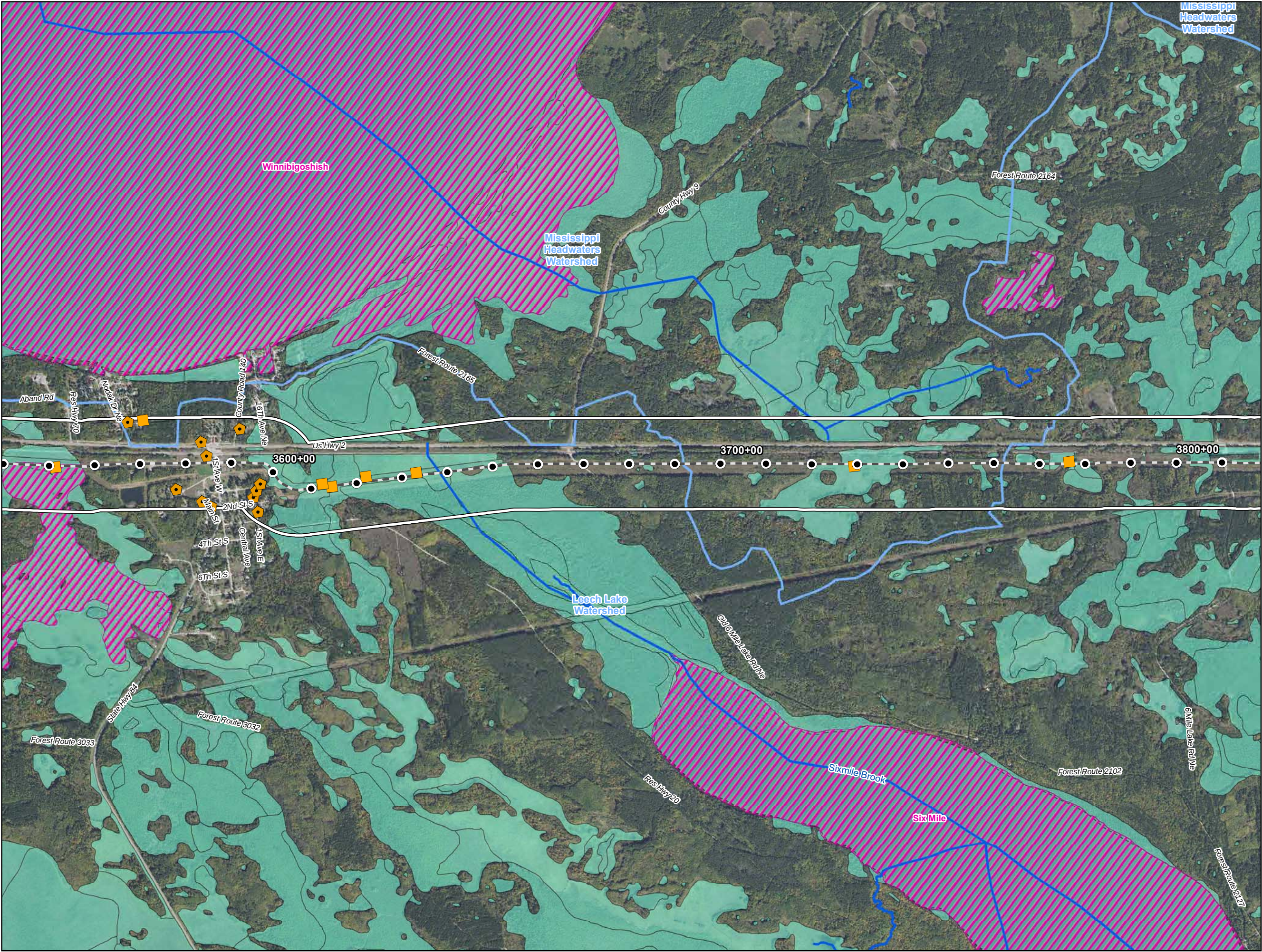
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Figure 13
Line 3 Replacement Project
RA-07-L3
Enbridge
Cass County, Minnesota



- Water Well
- Surface Water Intake
- Calcareous Fen
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- County Boundary

Figure 14
Line 3 Replacement Project
RA-07-L3
Enbridge
Cass County, Minnesota



- Water Well
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Figure 15
Line 3 Replacement Project
RA-07-L3
Enbridge
Cass County, Minnesota

