Waterbody Data	Officet									
Description										
Project Name:						Date:			Waterbody S	Survey ID:
Line 5 Relocation Proje	ect					2020-05-28			sasb006p_x2	2
State:		County/F	Parish:			USGS Wate	rbody Name			
Wisconsin		Ashland				Bad River				
Company:		Crew Me	mber Init	ials:		Latitude:			Longitude:	
Enbridge		AGG/OT	G			46.335548			-90.652351	
Survey Type: (check one)	✓ Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type: (check one)	<b>☑</b> River		□ Stream	1		Ditch	☐ Swale	☐ Canal		Other
Water Appearance: (check one)	□ No Wa	ter	☑ Clear		□Т	Turbid	☐Sheen on Surface	□Surfac	e Scum $\Box$ A	Algal Mats □Other
Existing Condition <sup>a</sup> : (check one)	☑ Highly	Function	al Stream	□ Мо	derately	/ Functional S		☐ Functionally	Impaired Stre	am
Feature Description: (check one)	✓ Natural		☐ Artificia	al, man-mad	de □ □	Manipulated				
Flow Regime: (check one)	□ Ephem	eral	☐ Interm	ittent		Perennial	☐ Connect	ting		
Sinuosity within Survey Corridor: (check one)	□ Straigh	t	✓ Meand	lering						
Northern bank of the B	ud Nivor c	ar ino oag		arvey dome	ion.					
Measurements										
Depth of Water: 5	_ft.	N/A□	Unknov	vn□ Wate	er Edge	to Water Ed	<b>ge:</b> <u>50</u> ft.	N/A□	OHWM Widt	<b>h:</b> <u>50</u> ft.
OHWM Indicator: (check all that apply)	<b>☑</b> CI	ear line o	n bank	□Shelvin	g	□Wrested v	egetation	□Scouring		□Water staining
		nt, matted ing vegeta		□Wrack I	ine	□Litter and o	debris	☐ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□ Ве	edrock	□ Во	ulder [	☐ Cobb	le □ G	Gravel	<b>☑</b> Sand	✓ Silt/ clay	v □ Organic
Observations										
Riparian Zone Presen	t: 🗹 Ye	es	1	No						
Vegetation Layers:	<b>☑</b> Tr	ees	<b>v</b> (	Saplings/Sh	rubs	✓ Herbs				
Dominant Bank Veget Acer saccharinum, Fra	ation (list xinus pen	): nsylvanic	a, Matteu	ccia struthio	pteris					
Aquatic Habitats (ex: s Runs, pools, woody de	ubmerged or bris, over	emerged aq hanging v	uatic vegetat regetation	tion, overhangin	ig banks/ro	oots, leaf packs, la	rge submerged w	ood, riffles, deep po	ools, etc.):	
Aquatic Organisms O None.	bserved (	(list):								
<b>Disturbances</b> (ex: lives Road, bridges.	tock acces	s, manure i	in waterboo	dy, waste disc	charge pi	ipes):				
Observation Notes: The Bad River is a per	ennial wat	terbody th	nat flows t	hrough floo	dplain fo	orest.				



sasb006p\_x2 (across)



sasb006p\_x2 (downstream)



sasb006p\_x2 (upstream)

valerbody bata 3	nicct									
Description										
Project Name:						Date:			Waterbody S	Survey ID:
Line 5 Relocation Project						2020-05-30			sasd1006e	
State:	(	County/I	Parish:			USGS Wate	body Name			
Wisconsin		Ashland				None				
Company:	(	Crew Me	ember Ini	tials:		Latitude:			Longitude:	
Enbridge		AGG/OT	G			46.337397			-90.642968	
Survey Type:  (check one)	Centerli	ne	□ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type:	River		☐ Stream	n		Ditch	☐ Swale	☐ Canal		Other
Water Appearance:  (check one)	No Wate	er	✓ Clear		□⊺	urbid	☐Sheen on Surface	□Surfac	e Scum □A	Algal Mats □Other
Existing Condition a:	Highly F	unction	al Stream	<b>Y</b> M	loderately	/ Functional S		☐ Functionally	Impaired Stre	am
Feature Description:	Natural		Artificia	al, man-ma	ade 🗆 I	Manipulated				
Flow Regime: (check one)	Epheme	eral	☐ Interm	ittent		Perennial	☐ Connect	ting		
Sinuosity within Survey Corridor: (check one)	Straight		☐ Meand	dering						
Artificial ditch along N Bu	tier Koa	a.								
Measurements										
Depth of Water: 0.1 ft	. 1	√/A□	Unknov	wn□ <b>W</b> a	ater Edge	to Water Ed	<b>ge:</b> <u>0.5</u> ft.	N/A□	OHWM Widt	<b>h</b> :1 ft.
OHWM Indicator:	□ Cle	ear line c	n bank	□Shelv	ring	□Wrested v	egetation	□Scouring		☐Water staining
(check all that apply)		nt, matte ng veget		□Wrack	k line	□Litter and o	debris	□ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□ Be	drock	□ Во	ulder	□ Cobb	le 🗆 G	iravel	<b>☑</b> Sand	✓ Silt/ clay	/ □ Organic
Observations										
Riparian Zone Present: (check one)	☐ Ye	S	<u> </u>	No						
Vegetation Layers: (check all that apply)	□ Tre	es		Saplings/S	Shrubs	✓ Herbs				
Dominant Bank Vegetati Poa pratensis, Equisetum	on (list) praten	: se								
Aquatic Habitats (ex: subm None.			uatic vegeta	tion, overhanç	ging banks/ro	oots, leaf packs, la	rge submerged w	ood, riffles, deep po	ools, etc.):	
Aquatic Organisms Obs None.	erved (/	ist):								
<b>Disturbances</b> (ex: livestoc Receives runoff from the	k access road.	, manure	in waterboo	dy, waste di	ischarge pi	pes):				
Observation Notes: The feature is a narrow ro	padside	ditch. Th	ne stream	continues	to the so	outh a little but	becomes dri	er and less def	ined.	



sasd1006e\_W (across)



sasd1006e\_N (downstream)



sasd1006e\_S (upstream)

Waterbody Date	a Sileet										
Description											
Project Name:						Date:			Waterbody	Survey ID:	
Line 5 Relocation Pro	ect					2020-05-29			sasd1005e		
State:		County/	Parish:			USGS Wate	rbody Name	):			
Wisconsin		Ashland	l			None					
Company:		Crew Me	ember Ini	tials:		Latitude:			Longitude:		
Enbridge		AGG/O1	ΓG			46.338070			-90.629414	1	
Survey Type: (check one)	☑ Center	ine	☐ Re-Ro	oute		Access Road	□Facility	□Other			
Waterbody Type: (check one)	☐ River		✓ Strear	n		Ditch	☐ Swale	☐ Canal		Other	
Water Appearance: (check one)	□ No Wa	ter	☑ Clear			Turbid	☐Sheen or Surface	n □Surfac	e Scum 🗆	∃Algal Mats	□Other
Existing Condition <sup>a</sup> : (check one)	☑ Highly	Function	al Stream	ı 🗆	Moderatel	ly Functional S		☐ Functionally	Impaired St	ream	
Feature Description: (check one)	✓ Natura		☐ Artifici	al, man-	made $\square$	Manipulated					
Flow Regime: (check one)	<b>E</b> Ephem	eral	☐ Interm	nittent		Perennial	☐ Connect	ting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	nt	✓ Mean	dering							
Ephemeral feature as	socialeu w	iui wellal	ilu wasu i	0131.							
Measurements											
Depth of Water: 0.2	<u>5</u> ft.	N/A□	Unkno	wn 🗆 🛚 🕦	Nater Edge	e to Water Ed	<b>ge:</b> <u>1</u> ft.	N/A 🗆	OHWM Wid	dth:1f	t.
OLDA/BA In dia at a m		P			. 6. 2						tatata a
OHWM Indicator: (check all that apply)		ear line o	on bank	□She	eiving	□Wrested v	egetation	□Scouring		□Waters	staining
		ent, matte ing veget		□Wra	ack line	□Litter and	debris	☐Abrupt plan change	t community	y □Soil cha change	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	<b>☑</b> Bo	oulder	☐ Cobb	ole 🗆 (	Gravel	☐ Sand	☐ Silt/ cl	ay 🗆 (	Organic
Observations											
Riparian Zone Preser	nt: 🗆 Ye	es		No							
Vegetation Layers:	<b>☑</b> Tr	ees	V	Saplings	s/Shrubs	✓ Herbs					
Dominant Bank Vege Abies balsamea, Athy	<b>tation</b> (list	:): emina, Os	smunda c	laytonia	na						
Aquatic Habitats (ex: None.	submerged or	emerged ac	quatic vegeta	ation, overh	anging banks/i	roots, leaf packs, I	arge submerged v	wood, riffles, deep po	pols, etc.):		
Aquatic Organisms ( None.	Observed	(list):									
<b>Disturbances</b> (ex: live None.	stock acces	s, manure	in waterbo	dy, waste	discharge p	pipes):					
Observation Notes: The feature is an eph	ermal wate	rbody fed	d by a dise	charge v	vetland ups	slope. There a	re areas thro	ughout where t	he water go	es below the	surface.



sasd1005e\_W (across)



sasd1005e\_S (downstream)



sasd1005e\_N (upstream)

Waterbody Data	Officet									
Description										
Project Name:						Date:			Waterbody S	Survey ID:
Line 5 Relocation Projection	ct					2020-05-28			sasd1004e	
State:		County/l	Parish:			USGS Wate	rbody Name	•		
Wisconsin		Ashland				None				
Company:		Crew Me	ember Init	tials:		Latitude:			Longitude:	
Enbridge		AGG/OT	-G			46.339164			-90.625747	
Survey Type: (check one)	Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type: [check one)	River		✓ Stream	า		Ditch	☐ Swale	☐ Canal		Other
Water Appearance: [	☐ No Wa	ter	✓ Clear		□1	Turbid	☐Sheen or Surface	□Surfac	e Scum 🗆 🗸	Algal Mats □Other
Existing Condition a: (check one)	Highly	Function	al Stream	<b>☑</b> Mo	oderately	/ Functional S		☐ Functionally	Impaired Stre	am
Feature Description: (check one)	7 Natural		☐ Artificia	al, man-ma	de 🗆 I	Manipulated				
Flow Regime: (check one)	Z Ephem	eral	☐ Interm	ittent		Perennial	☐ Connec Swale	ting		
Sinuosity within Survey Corridor: (check one)	∃ Straigh	t	✓ Meand	dering						
Natural ephemeral strea		g 1 g								
Measurements										
Depth of Water: 0.25	ft.	N/A□	Unknov	wn□ <b>W</b> at	ter Edge	to Water Ed	<b>ge:</b> <u>0.5</u> ft.	N/A□	OHWM Widt	<b>h</b> : <u>1</u> ft.
OHWM Indicator: (check all that apply)	□ CI	ear line c	n bank	□Shelviı	ng	□Wrested v	egetation	Scouring		□Water staining
(опоск ин ини арруу)		nt, matte ng veget		□Wrack	line	□Litter and o	debris	□ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□В€	edrock	<b>☑</b> Bo	ulder	□ Cobb	le 🗆 G	Gravel	☐ Sand	✓ Silt/ clay	/ □ Organic
Observations										
Riparian Zone Present	: □ Y€	es	<b>1</b>	No						
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V (	Saplings/SI	hrubs	✓ Herbs				
Dominant Bank Vegeta Abies balsamea, Populi	us tremul	oides, At	•		•					
Aquatic Habitats (ex: su None.	bmerged or	emerged aq	uatic vegetat	tion, overhangi	ing banks/ro	oots, leaf packs, la	rge submerged v	wood, riffles, deep po	ools, etc.):	
Aquatic Organisms Ob None.	served (	(list):								
<b>Disturbances</b> (ex: livest None.	ock acces	s, manure	in waterboo	dy, waste dis	charge pi	ipes):				
Observation Notes: The feature is a very na There are areas of the f				-				osed rocks pre	sent within po	ortions of the channel.



sasd1004e\_W (across)



sasd1004e\_S (downstream)



sasd1004e\_N (upstream)

Waterbody Date	a Sileet										
Description											
Project Name:						Date:			Waterbody	Survey ID:	
Line 5 Relocation Pro	ect					2020-06-01			sasa005e_x	х	
State:		County/	Parish:			USGS Wate	rbody Name	•			
Wisconsin		Ashland	I			None					
Company:		Crew Me	ember Ini	tials:		Latitude:			Longitude:		
Enbridge		AGG/OT	ΓG			46.366806			-90.591153	3	
Survey Type: (check one)	☑ Center	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other			
Waterbody Type: (check one)	☐ River		☐ Stream	n	V	Ditch	☐ Swale	☐ Canal		Other	
Water Appearance: (check one)	□ No Wa	ter	☑ Clear		<u></u>	Γurbid	☐Sheen or Surface	Surfac	e Scum	Algal Mats	□Other
Existing Condition a: (check one)	☐ Highly	Function	al Stream		Moderately	y Functional S		☐ Functionally	Impaired Str	ream	
Feature Description: (check one)	☐ Natura		☐ Artifici	al, man-n	nade 🗹	Manipulated					
Flow Regime: (check one)	<b>E</b> Ephem	eral	☐ Interm	ittent		Perennial	☐ Connec Swale	ting			
Sinuosity within Survey Corridor: (check one)	✓ Straigh	nt	☐ Mean	dering			Owaic				
Extension of ephemer	al roadside	e ditch fe	ature.								
Measurements											
Depth of Water: 0.25	5 ft.	N/A□	Unknov	wn□ W	/ater Edge	to Water Ed	<b>ge:</b> 1 ft.	N/A 🗆	OHWM Wid	<b>dth:</b> 1 ft	
										·	
OHWM Indicator: (check all that apply)	□С	ear line o	on bank	□Shel	ving	□Wrested v	egetation	□Scouring		□Water s	taining
(		ent, matte ing veget		□Wra	ck line	□Litter and	debris	☐ Abrupt plan change	t community	/ □Soil cha change	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	☐ Cobb	le 🗆 C	Gravel	☐ Sand	✓ Silt/ cla	ay 🗆 C	Organic
Observations											
Riparian Zone Preser	nt: 🗆 Ye	es	V	No							
Vegetation Layers: (check all that apply)	□ Tr	ees		Saplings/	/Shrubs	✓ Herbs					
Dominant Bank Vege Osmunda claytoniana	etation (list	·):									
Aquatic Habitats (ex: None.	submerged or	emerged ac	quatic vegeta	tion, overha	nging banks/re	oots, leaf packs, la	arge submerged v	vood, riffles, deep po	ools, etc.):		
Aquatic Organisms ( None.	Observed	(list):									
<b>Disturbances</b> (ex: live Removal of tree and s	stock acces hrub layer	s, manure , roads.	in waterbo	dy, waste	discharge pi	ipes):					
Observation Notes: The feature is an eph	emeral ditc	h runnin(	g through	a mainta	ined power	rline corridor a	along a road.				



sasa005e\_x (across)



sasa005e\_x (downstream)



sasa005e\_x (upstream)

Description					<b>I</b> .					
Project Name:					Date:			Waterbody S	Survey ID:	
Line 5 Relocation Project					2020-06-02			sasd1007i		
State:	Count	y/Parish:			USGS Wate	rbody Name				
Wisconsin	Ashlar	nd			None					
Company:	Crew I	Member Ini	tials:		Latitude:			Longitude:		
Enbridge	AGG/0	OTG			46.389905			-90.573070		
	Centerline	☐ Re-Ro	ute		Access Road	□Facility	□Other			
(check one)  Waterbody Type:   (check one)	River	✓ Stream	າ		Ditch	☐ Swale	☐ Cana		Other	
Water Appearance:	No Water	☑ Clear			Γurbid	☐ Sheen on	Surfac	e Scum 🗆	Algal Mats	□Other
(check one)  Existing Condition <sup>a</sup> :	Highly Function	onal Stream	<b>☑</b> Mod	eratel	y Functional S	Surface Stream	☐ Functionally	Impaired Stre	am	
Feature Description:		☐ Artificia	al, man-made	· <b>V</b>	Manipulated					
Flow Regime:	Ephemeral	✓ Interm	ittent		Perennial	☐ Connect Swale	ting			
Sinuosity within Survey Corridor:	Straight	✓ Meano	dering							
Measurements			lan.				N/4 T			
Depth of Water: 1 ft.	N/A□	Unknov	<sub>wn</sub>	r Edge	e to Water Ed	<b>ge:</b> 2 ft.	N/A□	OHWM Widt	<b>h:</b> <u>2</u> f	t.
OHWM Indicator: (check all that apply)	Clear line	on bank	□Shelving		□Wrested v	egetation	□Scouring		□Water	staining
	☑Bent, mat missing veg		□Wrack lir	ne	□Litter and	debris	□Abrupt plan change	t community	□Soil chachange	aracteristic
Dominant Substrate: (check all that apply)	☐ Bedrock	□ Во	ulder 🗆	Cobb	le 🗹 (	Gravel	<b></b> Sand	✓ Silt/ clay	<i>y</i> 🗆	Organic
Observations										
Riparian Zone Present: (check one)	<b>☑</b> Yes		No							
Vegetation Layers: (check all that apply)	☐ Trees		Saplings/Shru	ıbs	✓ Herbs					
Dominant Bank Vegetation Alnus incana, Glyceria sp.	on (list):									
Aquatic Habitats (ex: subm Submersed vegetation.	erged or emerged	aquatic vegeta	tion, overhanging	banks/r	oots, leaf packs, l	arge submerged w	vood, riffles, deep p	ools, etc.):		
Aquatic Organisms Obse Invertebrates, minnows.	erved (list):									
Disturbances (ex: livestock Stock pond, channel altera	c access, manu ation, cattle ac	re in waterbooccess.	dy, waste disch	arge p	ipes):					
Observation Notes: The feature is an intermitt man-made diversion that t			• .				rceria sp. and s	speckled alde	r. The featu	re has a



sasd1007i\_NE (across)



sasd1007i\_S (downstream)



sasd1007i\_E (upstream)

Trate: Beay Bata	011000										
Description											
Project Name:						Date:			Waterbody S	urvey ID:	
Line 5 Relocation Proje	ect					2020-06-02			sasd1008i		
State:		County/Pa	arish:			USGS Wate	erbody Nam	ie:			
Wisconsin		Ashland				None					
Company:		Crew Mem	nber Initi	als:		Latitude:			Longitude:		
Enbridge		AGG/OTG	}			46.390366			-90.573565		
Survey Type: (check one)	✓ Centerl	ine $\Box$	Re-Rou	te		Access Road	□Facility	□Other			
'	□ River	V	Stream			Ditch	☐ Swale	☐ Cana	I 🗆 C	Other	
Water Appearance: [	☐ No Wa	er 🔽	Z Clear		<b>□</b> 1	Turbid	☐Sheen of Surface	on □Surfac	ce Scum □A	lgal Mats	□Other
	☐ Highly	Functional	Stream	☐ Mode	rately	/ Functional S		<b>■</b> Functionally	Impaired Strea	am	
Feature Description: [(check one)				l, man-made		Manipulated					
Flow Regime: [check one]	□ Ephem	eral 🗹	Intermit	tent		Perennial	☐ Conne Swale	ecting			
Sinuosity within Survey Corridor: (check one)	□ Straigh	t <b>v</b>	Meande	ering							
Measurements											
Depth of Water: 1	_ft.	N/A□	Unknow	n□ Water	Edge	to Water Ed	<b>lge</b> :1f	ft. N/A□	OHWM Width	n: <u>1</u> ft	
OHWM Indicator: (check all that apply)	□ CI	ear line on	bank	□Shelving		□Wrested v	egetation	□Scouring		□Water s	taining
(опсок ан так арруу)		nt, matted, ing vegetat		□Wrack line	е	□Litter and	debris	<b>☑</b> Abrupt plar change	nt community	□Soil cha	aracteristic
Dominant Substrate: (check all that apply)	□ Ве	edrock	□ Boul	lder 🗆 (	Cobb	le 🗹 (	Gravel	<b>☑</b> Sand	✓ Silt/ clay		Organic
Observations											
Riparian Zone Present (check one)	:: <b>☑</b> Y∈	S	□N	0							
Vegetation Layers: (check all that apply)	□ Tr	ees	□ S	aplings/Shrul	bs	✓ Herbs	3				
Dominant Bank Veget Glyceria sp., Eleochari											
Aquatic Habitats (ex: si None.	ubmerged or	emerged aqua	atic vegetatio	on, overhanging b	oanks/r	oots, leaf packs, l	arge submerged	d wood, riffles, deep p	ools, etc.):		
Aquatic Organisms Of None.	bserved (	list):									
<b>Disturbances</b> (ex: lives Cattle access.	tock acces	s, manure in	waterbody	,, waste discha	arge pi	ipes):					
Observation Notes: The feature is an intern	nittent stre	 eam that flo	ows throu	gh pasture. T	The h	eadwater of t	the feature is	s the adjacent st	ock pond.		



sasd1008i\_N (across)



sasd1008i\_W (downstream)



sasd1008i\_E (upstream)

**Open Waterbody Data Sheet** 

Open waterbou	y Data	Sileet										
Description												
Project Name:					Date:			Waterbody Su	ırvey ID:			
Line 5 Relocation Proje	ect				2020-06-02			oasd1001				
State:		County/P	arish:		USGS Wate	rbody Name	):					
Wisconsin		Ashland			None							
Company:		Date: 2020-06-02										
Enbridge		AGG/OT	Э		46.390110			-90.572853				
Survey Type: (check one)	✓ Centerl	ine [	☐ Re-Route		Access Road	□Facility	□Other					
Waterbody Type: (check one)	✓ Stock F	ond [	☐ Natural Pond		Fishing Pond	☐ Lake	☐ Other					
Water Appearance: (check one)	□ No Wa	ter [	☐ Clear	₹T	urbid		n □Surfac	e Scum 🗆 Al	gal Mats □Other			
. ,	☐ High		☐ Moderate		Low	Curiaco						
Feature Description: (check one)	☐ Natural	[	Artificial, man-r	made 🗆 I	Manipulated							
Description Notes:												
Measurements												
Depth of Water: 4	_ ft.	N/A□	Unknown□									
OHWM Indicator: (check all that apply)	□ C	ear line or	n bank □She	lving	□Wrested v	egetation	Scouring		□Water staining			
				ck line	□Litter and	debris		t community				
Dominant Substrate: (check all that apply)	□В€	edrock	☐ Boulder	☐ Cobbl	le 🗆 C	Gravel	<b>☑</b> Sand	☑ Silt/ clay	□ Organic			
Observations												
Riparian Zone Presen (check one)	it: 🗆 Ye	es	<b>☑</b> No									
Vegetation Layers: (check all that apply)	□ Tr	ees	☐ Saplings/	/Shrubs	✓ Herbs							
Dominant Bank Vege	tation (list	·):	-									
Eleocharis sp., Juncus	sp., Glyce	eria sp., Pl	halaris arundinac	ea								
_	submerged or	emerged aqu	uatic vegetation, overha	anging banks/ro	oots, leaf packs, la	arge submerged v	wood, riffles, deep po	ools, etc.):				
Open water.												
Aquatic Organisms O												
Invertebrates, turtles, a												
Disturbances (ex: lives Cattle access.	stock acces	s, manure ir	n waterbody, waste	discharge pi	pes):							
Observation Notes: The feature is a berme	ed man-ma	ide stock p	oond located with	in a pasture	е.							



oasd1001\_W



oasd1001\_SW



oasd1001\_SW

waterbody Data s	Sneet												
Description													
Project Name:							Date:			Wat	erbody S	urvey ID:	
Line 5 Relocation Project	t						2020-06-02			sas	d1009e		
State:		County/	/Parish:				USGS Water	body Name	:				
Wisconsin		Ashland	t				None	•					
Company:		Crew M	ember In	itials:			Latitude:			Lon	gitude:		
Enbridge		AGG/O	TG				46.391361			-90	572867		
Survey Type:	Centerl	ine	☐ Re-Ro	oute		ΠА	ccess Road	□Facility	□Ot	her			
Waterbody Type: ☐ (check one)	River		☐ Stream	m		<b>V</b> [	Ditch	☐ Swale	□ Ca	anal		Other	
Water Appearance:	No Wa	ter	☐ Clear			VT	urbid	☐Sheen on Surface	ı □Su	rface So	um □A	lgal Mats	□Other
Existing Condition <sup>a</sup> :	Highly	Function	nal Stream	n 🗆	Modera	tely	Functional S	tream	Function	ally Impa	aired Strea	am	
Feature Description:	Natural		✓ Artifici	ial, man	-made		Manipulated						
Flow Regime: (check one)	Ephem	eral	☐ Interm	nittent		□ F	Perennial	☐ Connection Connecti	ting				
Sinuosity within Survey Corridor:	Straigh	t	☐ Mean	dering									
Measurements													
Depth of Water: 0.5 f	t.	N/A□	Unkno	wn□	Water Ed	dge	to Water Ed	ge: 1 ft.	N/A	'_ OH/	VM Width	n: <u>3</u> ft	
OHWM Indicator:	□ CI	ear line	on bank	□Sh	elving		□Wrested ve	egetation	Scourin	g g		□Water s	staining
(check all that apply)		nt, matte		□Wr	rack line		□Litter and o	lebris	☑Abrupt p change	plant cor	nmunity	□Soil cha	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□Во	oulder	□ Со	bbl	e □G	iravel	<b>☑</b> Sand	V	Silt/ clay		Organic
Observations													
Riparian Zone Present:	□ Ye	es	V	No									
Vegetation Layers: (check all that apply)	□ Tr	ees		Sapling	s/Shrubs	i	✓ Herbs						
<b>Dominant Bank Vegetat</b> Phalaris arundinacea	i <b>on</b> (list	·):											
Aquatic Habitats (ex: subi	merged or	emerged a	quatic vegeta	ation, overh	hanging ban	ıks/rc	oots, leaf packs, la	rge submerged w	vood, riffles, de	ep pools, e	etc.):		
Aquatic Organisms Obs Invertebrates.	served	(list):											
Disturbances (ex: livestor Cattle access. Receives	ck acces runoff fr	s, manure om surro	in waterbo ounding a	ody, wasto gricultur	e discharg ral field ar	e piį nd p	pes): barking lot.						
Observation Notes: The feature is a narrow o	ditch loc	ated on t	the edge o	of an ag	ricultural	field	d and a grave	l parking lot.	The feature	e is high	ly disturbe	ed.	



sasd1009e\_N (across)



sasd1009e\_W (downstream)



sasd1009e\_E (upstream)

Trato. Souy Batt	4 011000											
Description												
Project Name:						[	Date:			Waterbody	Survey ID:	
Line 5 Relocation Pro	ect					2	2020-05-25			sirb1001e		
State:		County	/Parish:			ι	JSGS Water	body Name	:			
Wisconsin		Iron				1	None					
Company:		Crew M	lember Ini	itials:		L	atitude:			Longitude:		
Enbridge		KDF/S/	AM			4	46.383099			-90.546737		
Survey Type:	☑ Centerl	ine	□ Re-Ro	oute	[	□Ac	cess Road	□Facility	□Othe	r		
(check one) Waterbody Type: (check one)	□ River		✓ Strear	m	[	□ Di	tch	☐ Swale	☐ Cana	al 🗆	Other	
Water Appearance:	□ No Wa	er	☑ Clear		[	□Tu	rbid	☐Sheen on	□Surfa	ice Scum	Algal Mats	□Other
(check one)  Existing Condition a: (check one)	☑ Highly	Functio	nal Stream	n 🗆	Moderat	tely F	unctional S	Surface tream	☐ Functionally	/ Impaired Str	eam	
Feature Description: (check one)	✓ Natural		☐ Artifici	al, man	-made [	□ M	anipulated					
Flow Regime: (check one)	<b>E</b> Ephem	eral	☐ Interm	nittent	[	□ Pe	erennial	☐ Connection Connecti	ting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	t	✓ Mean	dering				<u> </u>				
Measurements Depth of Water: <0.2	<u>5</u> ft.	N/A□	Unkno	wn□	Water Ed	lge t	o Water Ed	<b>ge:</b> <u>1</u> ft.	N/A□	OHWM Wid	lth: <u>1</u>	_ft.
OHWM Indicator: (check all that apply)	□ CI	ear line	on bank	□Sh	elving		□Wrested ve	egetation	<b></b> Scouring		□Wate	r staining
		nt, matte		□Wr	rack line		Litter and o	lebris	□ Abrupt pla change	nt community	⊓Soil d change	haracteristic
Dominant Substrate: (check all that apply)	□ Ве	edrock	□Во	oulder	<b>☑</b> Co	bble	□ G	ravel	☐ Sand	<b>⊻</b> Silt/ cla	ay 🗆	Organic
Observations												
Riparian Zone Preser (check one)	nt: 🗹 Ye	es		No								
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V	Sapling	s/Shrubs		✓ Herbs					
<b>Dominant Bank Vege</b> Ostrya virginiana, Fra	<b>tation</b> (list xinus nigra	) <del>:</del> , Erythro	onium ame	ericanun	n, Athyriu	ım fili	ix-femina, M	atteuccia str	uthiopteris			
<b>Aquatic Habitats</b> (ex: Downed woody debris	submerged or s is present	emerged a along t	aquatic vegeta he stream	ation, overl bed.	hanging bank	ks/roo	ts, leaf packs, la	rge submerged w	wood, riffles, deep	pools, etc.):		
Aquatic Organisms ( American Toad, Wood	<b>Observed</b> ( d Frog, Nor	<i>list)</i> : thern Le	eopard Fro	g.								
<b>Disturbances</b> (ex: live Minor erosion is evide	stock access int along th	s, manure e strean	e in waterbo n channel.	ody, wasto	e discharge	e pipe	es):					
Observation Notes: None.												



sirb1001e\_S (across)



sirb1001e\_W (downstream)



sirb1001e\_E (upstream)

Description											
Project Name:						Date:			Waterbody S	Survey ID:	
Line 5 Relocation Proj	ect					2020-05-26			sirb1002e		
State:		County/	Parish:			USGS Wate	rbody Name	9:			
Wisconsin		Iron				None					
Company:		Crew Mo	ember Init	ials:		Latitude:			Longitude:		
Enbridge		KDF/SA	M			46.384749			-90.546191		
Survey Type:	☑ Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other			
(check one)  Waterbody Type: (check one)	☐ River		✓ Stream	1		Ditch	☐ Swale	☐ Cana		Other	
'	□ No Wa	er	☑ Clear		1	Turbid	□Sheen or Surface	n □Surfac	e Scum 🗆 🗸	Algal Mats	□Other
Existing Condition <sup>a</sup> :	Highly	Function	al Stream	☐ Mode	erately	y Functional S		☐ Functionally	Impaired Stre	am	
Feature Description: (check one)	✓ Natural		☐ Artificia	al, man-made		Manipulated					
Flow Regime: (check one)	<b>E</b> phem	eral	☐ Interm	ittent		Perennial	☐ Connec	cting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	t	✓ Meand	lering							
The feature is an ephe	emeral stre	am fed b	oy discharç	ge, flowing fro	m a f	orested wetla	nd.				
Measurements											
Depth of Water: 0.25	<u>5_</u> ft.	N/A□	Unknov	vn□ Water	Edge	e to Water Ed	l <b>ge:</b> 2 ft	. N/A□	OHWM Widt	h: <u>2</u>	ft.
OHWM Indicator:	□С	ear line o	on bank	□Shelving		□Wrested v	egetation	☑Scouring		□Water	staining
(check all that apply)	<b>⊻</b> Be	nt, matte	ed, or	□Wrack line	е	□Litter and		□ Abrupt plan	t community		aracteristic
Dominant Substrate: (check all that apply)		edrock	□ Вог	ulder	Cobb	ole 🗆 (	Gravel	<b>☑</b> Sand	☐ Silt/ clay		Organic
Observations											
Riparian Zone Presen	it: 🗹 Ye	es S	1 🗆	No							
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V S	Saplings/Shru	bs	✓ Herbs					
Dominant Bank Vege Acer saccharum, Frax	<b>tation</b> <i>(list</i> inus nigra,	) <u>:</u> Rubus i	daeus, Eq	uisetum prate	nse						
Aquatic Habitats (ex. s Downed woody debris	submerged or is present	emerged ac : within th	quatic vegetat ne feature.	tion, overhanging b	oanks/r	oots, leaf packs, l	arge submerged	wood, riffles, deep p	pols, etc.):		
Aquatic Organisms C None.	bserved (	list):									
<b>Disturbances</b> (ex: lives Minor erosion evident	stock acces along the	s, manure shallow b	in waterboo panks.	dy, waste discha	arge p	ipes):					
Observation Notes: None.											



sirb1002e\_N (across)



sirb1002e\_NW (downstream)



sirb1002e\_E (upstream)

Trator Boay Batt	<u> </u>											
Description												
Project Name:						[	Date:			Waterbody \$	Survey ID:	
Line 5 Relocation Pro	ect					2	2020-05-26			sird1006e		
State:		County	/Parish:			ι	JSGS Water	body Name	•			
Wisconsin		Iron				ı	None					
Company:		Crew M	ember Ini	itials:		L	_atitude:			Longitude:		
Enbridge		KDF/AC	3G			4	46.387494			-90.545033		
Survey Type: (check one)	☑ Centerl	ine	□ Re-Ro	oute	[	□Ac	cess Road	□Facility	□Othe	r		
Waterbody Type:	□ River		☑ Stream	m	[	□ D	itch	☐ Swale	☐ Cana	al 🗆	Other	
Water Appearance:	☐ No Wat	ter	☑ Clear		[	□Tu	ırbid	☐Sheen on	□Surfa	ce Scum 🗆	Algal Mats	□Other
(check one)  Existing Condition a: (check one)	□ Highly	Function	nal Stream	n 🗓	Moderat	tely l	Functional S	Surface tream	☐ Functionally	/ Impaired Stre	am	
Feature Description: (check one)	✓ Natural		☐ Artifici	ial, man	n-made [	□ M	anipulated					
Flow Regime: (check one)	<b>E</b> Ephem	eral	☐ Interm	nittent	[	□ P	erennial	☐ Connect	ting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	t	✓ Mean	dering				Swale				
Measurements												
Depth of Water: 0.25	5_ ft.	N/A□	Unkno	wn□	Water Ed	dge t	o Water Ed	<b>ge:</b> 1 ft.	N/A□	OHWM Widt	<b>h:</b> 2 ft.	
OHWM Indicator: (check all that apply)	□ CI	ear line	on bank	□Sh	nelving		□Wrested ve	egetation	<b>☑</b> Scouring		□Water sta	aining
(спеск ан тасарруу)		nt, matte ng vege		□Wı	rack line	[	Litter and o	lebris	☐ Abrupt pla	nt community	□Soil chara	acteristic
Dominant Substrate: (check all that apply)	□ Ве	edrock	□Вс	oulder	<b>☑</b> Co	bble		ravel	<b>☑</b> Sand	☐ Silt/ cla	y 🗆 Or	ganic
Observations												
Riparian Zone Preser (check one)	nt: 🗹 Ye	es		No								
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V	Sapling	gs/Shrubs		☑ Herbs					
Dominant Bank Vege Fraxinus nigra, Ostrya	tation (list virginiana	) <del>:</del> , Athyriu	ım filix-fen	nina, Er	ythronium	n am	ericanum					
Aquatic Habitats (ex. Downed woody debris	submerged or s is present	emerged a : within t	quatic vegeta he feature	ation, over	hanging bank	ks/roo	ts, leaf packs, la	rge submerged w	ood, riffles, deep	pools, etc.):		
Aquatic Organisms ( None.	Observed (	(list):										
<b>Disturbances</b> (ex: live Minor bank erosion is	stock acces evident in	s, manure areas of	in waterbo the strear	ody, wast m.	te discharge	e pipe	es):					
Observation Notes: None.												



sird1006e\_E (across)



sird1006e\_N (downstream)



sird1006e\_S (upstream)

Traterboay Bat	4 011000											
Description												
Project Name:						D	ate:			Waterbody	Survey ID:	
Line 5 Relocation Pro	ect					2	2020-05-26			sird1005i		
State:		County	/Parish:			U	ISGS Water	body Name	•			
Wisconsin		Iron				١	None					
Company:		Crew M	ember Ini	tials:		L	atitude:			Longitude:		
Enbridge		KDF/AC	3G			4	6.388248			-90.545324		
Survey Type: (check one)	✓ Centerl	ine	☐ Re-Ro	oute	[	□Ac	cess Road	□Facility	□Othei	r		
Waterbody Type:	□ River		✓ Stream	n	[	□ Di	tch	☐ Swale	☐ Cana	al 🗆	Other	
Water Appearance:	☐ No Wat	er	☐ Clear		[	□Tui	rbid	☑Sheen on	□Surfa	ce Scum 🗆	Algal Mats	□Other
(check one)  Existing Condition <sup>a</sup> : (check one)	☐ Highly	Function	nal Stream	1 [	Moderat	tely F	unctional S	Surface tream	☐ Functionally	/ Impaired Stre	eam	
Feature Description: (check one)	✓ Natural		☐ Artifici		-made [	□ Ma	anipulated					
Flow Regime: (check one)	☐ Ephem	eral	✓ Interm	nittent	[	□ Pe	erennial	☐ Connect Swale	ting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	t	✓ Mean	dering								
Measurements												
Depth of Water: 0.29	5_ ft.	N/A□	Unkno	wn□	Water Ed	ige to	o Water Ed	<b>ge</b> : <u>3</u> ft.	N/A□	OHWM Widt	t <b>h:</b> <u>3</u> ft.	
OHWM Indicator:	□ CI	ear line	on bank	□Sh	elving		□Wrested ve	getation	<b></b> Scouring		□Water s	taining
(check all that apply)	<b></b> Be missi	nt, matte	ed, or etation	□W⊓	rack line	V	Litter and o	lebris	□ Abrupt pla change	nt community	□Soil cha change	racteristic
Dominant Substrate: (check all that apply)	□ Ве	edrock	□ Во	oulder	<b>☑</b> Co	bble	□ G	ravel	✓ Sand	□ Silt/ cla	у 🗆 С	Organic
Observations												
Riparian Zone Preser	nt: 🗹 Ye	s		No								
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees		Sapling	s/Shrubs		✓ Herbs					
Dominant Bank Vege Betula alleghaniensis	tation (list Matteucci	): a struthio	opteris, Fr	axinus	nigra, Ath	yriun	n filix-femina	l				
Aquatic Habitats (ex. Downed woody debris	submerged or and small	emerged a pools a	quatic vegeta re present	ation, over within	hanging bank the feature	ks/root <b>e</b> .	s, leaf packs, la	rge submerged w	vood, riffles, deep	pools, etc.):		
<b>Aquatic Organisms (</b> Frogs.	Observed (	list):										
<b>Disturbances</b> (ex: live Erosion of banks is m	stock access ore evident	s, manure : along th	e in waterbo he north e	dy, wast nd of th	e discharge e feature.	e pipe	es):					
Observation Notes: None.												



sird1005i\_W (across)



sird1005i\_N (downstream)



Waterbody Data 3	iicci								
Description									
Project Name:				Dat	te:			Waterbody S	Survey ID:
Line 5 Relocation Project				20	20-05-26			sird1004i	
State:	Coun	ty/Parish:		US	GS Water	body Name			
Wisconsin	Iron			No	ne				
Company:	Crew	Member Init	ials:	Lat	itude:			Longitude:	
Enbridge	AGG	/OTG		46	.390259			-90.545537	
Survey Type:	Centerline	☐ Re-Ro	ute	□Acce	ess Road	□Facility	□Other		
Waterbody Type: ☐ F	River	✓ Stream	1	☐ Ditcl	h	☐ Swale	☐ Canal		Other
Water Appearance:   (check one)	No Water	☑ Clear		□Turb	id	☐Sheen on Surface	□Surfac	e Scum 🗆 🗸	Algal Mats □Other
	Highly Funct	ional Stream	✓ Modera	itely Fu	nctional S		☐ Functionally	Impaired Stre	am
Feature Description:	Natural	☐ Artificia	al, man-made	☐ Man	ipulated				
Flow Regime:  (check one)	Ephemeral	✓ Interm	ittent	□ Pere	ennial	☐ Connect	ting		
Sinuosity within Survey Corridor:	Straight	✓ Meand	lering						
Intermittent feature meand	g	,							
Measurements									
Depth of Water: 0.75 ft.	N/A	Unknov	vn□ Water E	dge to	Water Edg	<b>je:</b> <u>1.5</u> ft.	N/A□	OHWM Widt	<b>h</b> : <u>2</u> ft.
OHWM Indicator: (check all that apply)	Clear lin	ne on bank	Shelving	□V	Vrested ve	getation	□Scouring		□Water staining
(спеск ан шасарру)	✓Bent, ma missing ve		□Wrack line	□L	itter and c	ebris	☐ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	☐ Bedrock	с У Вог	ulder 🗆 Co	obble	<b>⊈</b> G	ravel	☐ Sand	✓ Silt/ clay	/ □ Organic
Observations									
Riparian Zone Present: (check one)	☐ Yes	<b>1</b>	No						
Vegetation Layers: (check all that apply)	✓ Trees	<b>v</b> (	Saplings/Shrubs	3	☑ Herbs				
Dominant Bank Vegetation Athyrium filix-femina, Acer	on <i>(list)</i> : rubrum, Fra	axinus nigra							
Aquatic Habitats (ex: submer None.	erged or emerge	d aquatic vegetat	ion, overhanging bar	nks/roots,	leaf packs, la	ge submerged w	ood, riffles, deep po	ools, etc.):	
Aquatic Organisms Obse None.	erved (list):								
<b>Disturbances</b> (ex: livestock None.	access, man	ure in waterboo	dy, waste discharg	je pipes)	:				
Observation Notes: None.									



sird1004i\_S (across)



sird1004i\_W (downstream)



sird1004i\_E (upstream)

Traterious Buta	Ciloct									
Description										
Project Name:					Date:			Waterbody Su	ırvey ID:	
Line 5 Relocation Proje	ct				2020-05-26			sird1003e		
State:		County/Pari	ish:		USGS Wate	erbody Name	<b>e</b> :			
Wisconsin		Iron			None					
Company:		Crew Memb	er Initials:		Latitude:			Longitude:		
Enbridge		AGG/OTG			46.390893			-90.544778		
Survey Type: (check one)	Z Centerli	ne 🗆 l	Re-Route		Access Road	□Facility	□Other			
Waterbody Type: [	River	V;	Stream		Ditch	☐ Swale	☐ Canal		Other	
,	☐ No Wat	er 🗹 (	Clear		Turbid	□Sheen o Surface	n □Surfac	e Scum	gal Mats	□Other
	☐ Highly	Functional S	Stream	<b>☑</b> Moderately	y Functional :	Stream	☐ Functionally	Impaired Strea	m	
Feature Description: (check one)	✓ Natural		Artificial, ma	n-made 🗆	Manipulated					
Flow Regime: (check one)	<b>Z</b> Ephem	eral 🗆 I	Intermittent		Perennial	☐ Connec	cting			
Sinuosity within Survey Corridor: (check one)	□ Straigh	t 🗹 I	Meandering			<b>C</b> Wale				
Measurements										
Depth of Water: 0.5	ft.	N/A□ L	Jnknown□	Water Edge	e to Water Ed	<b>ige:</b> <u>2</u> ft	N/A□	OHWM Width	: <u>2</u> ft.	
OHWM Indicator: (check all that apply)	□ Cl	ear line on b	ank □S	helving	□Wrested \	regetation	□Scouring		□Water stai	ining
(orosit dir dide appriy)		nt, matted, o ng vegetatio		rack line	□Litter and	debris	✓ Abrupt plan change	t community	□Soil chara change	cteristic
Dominant Substrate: (check all that apply)	□ Ве	edrock	<b>☑</b> Boulder	☐ Cobb	ole 🗆 (	Gravel	□ Sand	<b>☑</b> Silt/ clay	□ Org	ganic
Observations										
Riparian Zone Present (check one)	: □ Ye	S	<b>☑</b> No							
Vegetation Layers: (check all that apply)	<b>☑</b> Tre	es	☑ Saplin	gs/Shrubs	✓ Herbs	3				
Dominant Bank Veget: Acer saccharum, Fraxir										
Aquatic Habitats (ex: su None.	bmerged or	emerged aquation	c vegetation, ove	erhanging banks/r	roots, leaf packs, l	arge submerged	wood, riffles, deep po	ools, etc.):		
Aquatic Organisms Oblinsects.	oserved (	list):								
<b>Disturbances</b> (ex: livest None.	ock access	, manure in w	aterbody, was	ste discharge p	ipes):					
Observation Notes: The feature is an epher	meral wat	erbody that t	terminates ir	n wetland wirk	o1007f.					



sird1003e\_E (across)



sird1003e\_N (downstream)



sird1003e\_S (upstream)

Waterbody Data	Once									
Description										
Project Name:						Date:			Waterbody S	Survey ID:
Line 5 Relocation Project	ct					2020-05-26			sird1002e	
State:		County/	Parish:			USGS Wate	body Name			
Wisconsin		Iron				None				
Company:		Crew Me	ember Init	tials:		Latitude:			Longitude:	
Enbridge		AGG/OT	ГG			46.391364			-90.545729	
Survey Type: (check one)	Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type: [check one]	River		✓ Stream	า		Ditch	☐ Swale	☐ Canal		Other
Water Appearance: [	☐ No Wa	ter	✓ Clear		□Т	urbid	☐Sheen on Surface	□Surfac	e Scum 🗆	Algal Mats □Other
Existing Condition <sup>a</sup> : (check one)	<b>1</b> Highly	Function	al Stream	□Мо	oderately	/ Functional S		☐ Functionally	Impaired Stre	am
Feature Description: (check one)	Natural		☐ Artificia	al, man-ma	de 🗆 I	Manipulated				
Flow Regime: (check one)	<b>1</b> Ephem	eral	☐ Interm	ittent		Perennial	☐ Connect Swale	ting		
Sinuosity within Survey Corridor: (check one)	Straigh	t	✓ Meano	dering						
,			J							
Measurements										
Depth of Water: 0.5	ft.	N/A□	Unknov	wn□ <b>W</b> at	er Edge	to Water Ed	<b>ge:</b> 1 ft.	N/A□	OHWM Widt	<b>h:</b> 1 ft.
OHWM Indicator: (check all that apply)	□ CI	ear line o	on bank	□Shelvir	ng	□Wrested ve	egetation	□Scouring		□Water staining
		nt, matte ing veget		□Wrack	line	□Litter and o	lebris	☐ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	□ Cobb	le □ G	ravel	☐ Sand	<b>坚</b> Silt/ clay	y □ Organic
Observations										
Riparian Zone Present:	<b>☑</b> Ye	es	1	No						
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V S	Saplings/Sh	nrubs	✓ Herbs				
Dominant Bank Vegeta Fraxinus nigra, Athyriun	<b>ition</b> (list n filix-fem	): nina, Ace	r rubrum							
Aquatic Habitats (ex: sul None.	bmerged or	emerged ac	quatic vegetat	tion, overhangi	ng banks/ro	oots, leaf packs, la	rge submerged w	rood, riffles, deep po	ools, etc.):	
Aquatic Organisms Ob Frogs, insects.	served (	(list):								
<b>Disturbances</b> (ex: livesto None.	ock acces	s, manure	in waterboo	dy, waste dis	charge pi	pes):				
Observation Notes: The feature is a channe	lized stre	eam that	flows thro	ugh wetland	d wirb10	07f. The featu	re is surroun	ded by wetland	d on all sides.	



sird1002e\_N (across)



sird1002e\_W (downstream)



sird1002e\_E (upstream)

Waterbody Data	Officet									
Description										
Project Name:						Date:			Waterbody S	Survey ID:
Line 5 Relocation Proje	ct					2020-05-25			sird1001e	
State:		County/	Parish:			USGS Wate	rbody Name			
Wisconsin		Iron				None				
Company:		Crew Me	ember Init	tials:		Latitude:			Longitude:	
Enbridge		AGG/O	ГG			46.392546			-90.544835	
Survey Type: (check one)	✓ Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type: [	River		✓ Stream	า		Ditch	☐ Swale	☐ Canal		Other
Water Appearance: (check one)	No Wa	ter	☐ Clear		□1	Turbid	☐Sheen on Surface	□Surfac	e Scum □/	Algal Mats □Other
Existing Condition <sup>a</sup> : (check one)	☐ Highly	Function	al Stream	<b>☑</b> Mo	oderately	/ Functional S		☐ Functionally	Impaired Stre	am
Feature Description: (check one)	✓ Natural		☐ Artificia	al, man-ma	de 🗆	Manipulated				
Flow Regime: (check one)	<b>E</b> phem	eral	☐ Interm	ittent		Perennial	☐ Connect	ting		
Sinuosity within Survey Corridor: (check one)	□ Straigh	t	✓ Meano	dering						
Measurements										
Depth of Water: 0	ft.	N/A□	Unknov	wn□ Wat	er Edge	to Water Ed	<b>ge:</b> 0 ft.	N/A□	OHWM Widt	<b>h:</b> <u>3</u> ft.
OHWM Indicator: (check all that apply)	□ CI	ear line o	on bank	□Shelvir	ng	□Wrested v	egetation	□Scouring		□Water staining
(oneon an anat apply)		nt, matte		□Wrack	line	□Litter and o	debris	☐ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□ Ве	edrock	<b>☑</b> Bo	ulder	□ Cobb	le 🗆 G	Gravel	☐ Sand	<b>⊻</b> Silt/ clay	y □ Organic
Observations										
Riparian Zone Present (check one)	: □ Ye	es	<b>V</b> 1	No						
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	<b>Ø</b> (	Saplings/Sh	nrubs	✓ Herbs				
Dominant Bank Vegeta Tilia americana, Erythro	ation (list onium am	): ericanun	n, Athyriun	n filix-femin	а					
Aquatic Habitats (ex: su None.	ibmerged or	emerged ac	quatic vegetat	tion, overhangi	ng banks/re	oots, leaf packs, la	rge submerged w	ood, riffles, deep po	ools, etc.):	
Aquatic Organisms Ol None.	oserved (	(list):								
<b>Disturbances</b> (ex: livest None.	ock acces	s, manure	in waterboo	dy, waste dis	charge pi	ipes):				
Observation Notes: The feature is an epher	meral stre	eam that	terminates	s in a nearb	y hardw	ood swamp.				



sird1001e\_E (across)



sird1001e\_N (downstream)



sird1001e\_S (upstream)

Waterbody Data Si	icci								
Description									
Project Name:					Date:			Waterbody	Survey ID:
Line 5 Relocation Project					2020-06-03			sasd1010e	
State:	Cou	nty/Parish:			USGS Water	body Name	:		
Wisconsin	Ash	and			None				
Company:	Crev	v Member Ini	tials:		Latitude:			Longitude:	
Enbridge	AGC	S/OTG			46.394030			-90.562698	
Survey Type:	enterline	☐ Re-Ro	ute		Access Road	□Facility	□Other		
Waterbody Type: ☐ R	liver	☐ Stream	n	V	Ditch	☐ Swale	☐ Canal		Other
Water Appearance: ☐ N (check one)	lo Water	☐ Clear		V	urbid	☐Sheen or Surface	□Surfac	e Scum 🗆	Algal Mats □Other
Existing Condition <sup>a</sup> :	lighly Fund	ctional Stream	□ Modera	ately	/ Functional S		Functionally	Impaired Stre	eam
Feature Description:   (check one)	latural	☑ Artifici	al, man-made		Manipulated				
Flow Regime:	phemeral	☐ Interm	ittent		Perennial	☐ Connec Swale	ting		
Sinuosity within Survey Corridor: (check one)	traight	☐ Mean	dering						
Description Notes: Artificial ephemeral ditch fe	eature.								
Measurements									
Depth of Water:25 ft.	N/A	Unkno	wn□ Water E	dge	to Water Ed	<b>ge:</b> <u>.5</u> ft.	N/A□	OHWM Widt	th: <u>1</u> ft.
OHWM Indicator:	Clear li	ne on bank	□Shelving		□Wrested ve	egetation	Scouring		☐Water staining
(check all that apply)	☑Bent, m missing v		□Wrack line		□Litter and o	debris	□ Abrupt plan change	t community	☐Soil characteristic change
Dominant Substrate: (check all that apply)	□ Bedroo	k □ Bo	ulder 🗆 C	obbl	le 🗆 G	iravel	<b>☑</b> Sand	<b>⊻</b> Silt/ cla	y 🗆 Organic
Observations									
Riparian Zone Present:	<b>☑</b> Yes		No						
Vegetation Layers: (check all that apply)	☐ Trees		Saplings/Shrub	S	✓ Herbs				
Dominant Bank Vegetatio Carex sp., Phalaris arundir	n (list): nacea								
Aquatic Habitats (ex: subme None.			tion, overhanging ba	nks/ro	oots, leaf packs, la	rge submerged v	wood, riffles, deep po	pols, etc.):	
Aquatic Organisms Obse None.	rved (list):								
<b>Disturbances</b> (ex: livestock The feature is ditched.	access, ma	nure in waterbo	dy, waste dischar	ge pi	pes):				
Observation Notes: The feature is a man-made	e ditch crea	ated to drain fe	eature wasa134	·S.					



sasd1010e\_E (across)



sasd1010e\_S (downstream)



sasd1010e\_N (upstream)

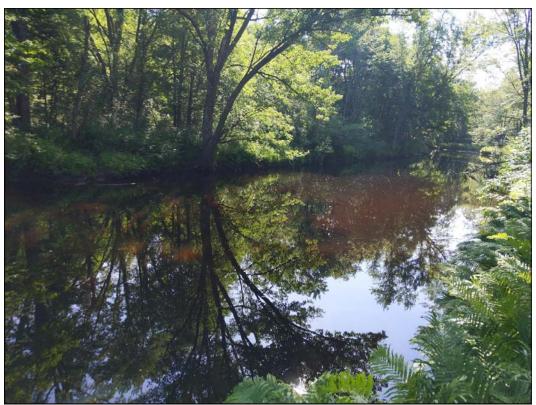
Waterbody Dat	a Sileet										
Description											
Project Name:						Date:			Waterbody	y Survey ID:	
Line 5 Relocation Pro	ject					2020-07-03			sirb012p_x	(	
State:		County/	Parish:			USGS Wate	erbody Name	e:			
Wisconsin		Iron				Tyler Forks					
Company:		Crew Me	ember Ini	tials:		Latitude:			Longitude:	•	
Enbridge		AGG/DN	MР			46.423457			-90.517518	8	
Survey Type: (check one)	☐ Center	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other	•		
Waterbody Type: (check one)	✓ River		☐ Strean	n		Ditch	☐ Swale	☐ Cana	l [	Other	
Water Appearance: (check one)	□ No Wa	ter	✓ Clear			Turbid	□Sheen o Surface	n □Surfac	ce Scum [	□Algal Mats	□Other
Existing Condition a: (check one)	☑ Highly	Function	al Stream		Moderate	ly Functional		☐ Functionally	Impaired St	ream	
Feature Description: (check one)	✓ Natura		☐ Artificia	al, man-	made $\square$	Manipulated					
Flow Regime: (check one)	☐ Ephem	eral	☐ Interm	ittent	V	Perennial	☐ Connec	cting			
Sinuosity within Survey Corridor: (check one)	✓ Straigh	it	☐ Meand	dering							
Measurements											
Depth of Water: 4	ft.	N/A□	Unknov	wn 🗆 🛝	Water Edg	e to Water Ed	<b>ige</b> : <u>30</u> ft	t. N/A 🗆	OHWM Wie	<b>dth:</b> <u>30</u> ft.	
OHWM Indicator: (check all that apply)	<b>☑</b> C	ear line o	on bank	□She	elving	□Wrested v	egetation	✓ Scouring		□Water s	taining
		ent, matte ing veget		□Wra	ack line	<b>☑</b> Litter and	debris		nt community	y □Soil cha change	racteristic
Dominant Substrate (check all that apply)	□Ве	edrock	□ Во	ulder	☐ Cobl	ble 🗆 (	Gravel	<b>☑</b> Sand	☐ Silt/ cl	lay 🗆 C	Organic
Observations											
Riparian Zone Prese	nt: 🗹 Ye	es		No							
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees		Saplings	s/Shrubs	<b>☑</b> Herbs	3				
Dominant Bank Vege Acer saccharinum, Fr	etation (list axinus nigr	'): a, Matte	uccia strut	hiopteri	S						
Aquatic Habitats (ex: Litter and debris, poo	submerged or S.	emerged ac	quatic vegeta	tion, overh	anging banks	/roots, leaf packs, l	arge submerged	wood, riffles, deep p	oools, etc.):		
Aquatic Organisms ( None.	Observed	(list):									
<b>Disturbances</b> (ex: live None.	estock acces	s, manure	in waterboo	dy, waste	e discharge <sub>l</sub>	pipes):					
Observation Notes: None.											
1											



sirb012p\_x (across)



sirb012p\_x (downstream)



sirb012p\_x (upstream)

Trate. Body Bata	<u> </u>										
Description											
Project Name:						Date:			Waterbody Su	ırvey ID:	
Line 5 Relocation Project	t					2020-05-19			sirc1004e		
State:		County	/Parish:			USGS Wate	rbody Name	<b>e</b> :			
Wisconsin		Iron				None					
Company:		Crew M	lember Init	tials:		Latitude:			Longitude:		
Enbridge		EJO/JS	W			46.456397			-90.477437		
Survey Type:	Centerl	ine	☐ Re-Ro	ute	Ø,	Access Road	□Facility	□Other			
Waterbody Type:	River		☐ Stream	n	V	Ditch	☐ Swale	☐ Cana	I □ C	Other	
Water Appearance: (check one)	No Wa	ter	☐ Clear			Turbid	☐Sheen or Surface	n □Surfac	e Scum	gal Mats □C	Other
	Highly	Function	nal Stream		Moderatel	y Functional S	Stream	☐ Functionally	Impaired Strea	m	
Feature Description:	Natural		Artificia	al, man-m	nade 🗆	Manipulated					
Flow Regime: (check one)	Ephem	eral	☐ Interm	ittent		Perennial	☐ Connec	cting			
Sinuosity within Survey Corridor: (check one)	Straigh	t	☐ Meand	dering			<u> </u>				
Feature is a small ditch a	aujacem	to lores	t road. It in	ows into a	an internii	ment stream v	mum the Sur	vey alea.			
Measurements											
Depth of Water: NA f	ft.	N/A□	Unknov	wn 🗆 🛮 W	ater Edge	e to Water Ed	ge: <u>NA</u> ft	N/A□	OHWM Width	: <u>1</u> ft.	
OHWM Indicator: (check all that apply)	<b>☑</b> CI	ear line	on bank	<b>✓</b> Shel	ving	□Wrested v	egetation	<b></b> Scouring		□Water stainir	ng
(спеск ан шасарру)		nt, matte		□Wrac	ck line	□Litter and	debris	□ Abrupt plan	t community	☐Soil characte	eristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	□ Cobb	ole 🗹 (	Gravel	□ Sand	<b>☑</b> Silt/ clay	□ Orgar	nic
Observations											
Riparian Zone Present: (check one)	□Y€	es	<b>V</b> 1	No							
Vegetation Layers: (check all that apply)	□ Tr	ees		Saplings/	Shrubs	✓ Herbs					
Dominant Bank Vegetat Taraxacum officinale, Im											
Aquatic Habitats (ex: sub None observed.	merged or	emerged a	quatic vegetat	tion, overhar	nging banks/r	oots, leaf packs, l	arge submerged	wood, riffles, deep p	ools, etc.):		
Aquatic Organisms Obs None observed.	served (	(list):									
<b>Disturbances</b> (ex: livesto Stream is in ditch of clea	ck access red fore	s, manure st road.	in waterboo	dy, waste o	discharge p	ipes):					
Observation Notes: Narrow stream in ditch a	t edge o	f forest	road, vege	tated with	n non-nativ	ve herbs and	Carex crinita	i.			



sirc1004e\_SW (across)



sirc1004e\_NW (downstream)



sirc1004e\_SE (upstream)

Waterbody Dat	a Sileet										
Description											
Project Name:						Date:			Waterbody	Survey ID:	
Line 5 Relocation Pro	ject					2020-05-19			sirc1003i		
State:		County/l	Parish:			USGS Wate	rbody Name	•			
Wisconsin		Iron				None					
Company:		Crew Me	ember Init	tials:		Latitude:			Longitude:		
Enbridge		EJO/JS\	N			46.456632			-90.477577	7	
Survey Type: (check one)	☐ Center	ine	☐ Re-Ro	ute	<b>V</b> A	Access Road	□Facility	□Other			
Waterbody Type: (check one)	☐ River		✓ Stream	า		Ditch	☐ Swale	☐ Canal		Other	
Water Appearance:	□ No Wa	ter	☐ Clear		□Т	urbid	☐Sheen on Surface	Surfac	e Scum 🗆	☐Algal Mats	□Other
Existing Condition a: (check one)	□ Highly	Function	al Stream	<b>U</b> N	Moderately	/ Functional S		☐ Functionally	Impaired Str	ream	
Feature Description:	☐ Natura		☐ Artificia	al, man-m	ade 🗹 l	Manipulated					
Flow Regime:	☐ Ephem	eral	✓ Interm	ittent		Perennial	☐ Connect	ting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	nt	✓ Meano	dering			• · · · · · ·				
Measurements							2 1	A1/A 🖂	01 B4/84 14/2	141 0 6	
Depth of Water: 0.5	ft.	N/A□	Unknov	wn□   <b>w</b> a	ater Edge	to Water Ed	ge: <u>2</u> ft.	N/A□	OHWM Wid	<b>dth:</b> <u>3</u> ft	
OHWM Indicator:	□С	ear line o	on bank	□Shelv	/ing	<b>☑</b> Wrested ve	egetation	□Scouring		<b>⊻</b> Water s	staining
(check all that apply)		ent, matte ing veget		□Wrac	k line	□Litter and o	debris	☐ Abrupt plan change	t community	y □Soil cha change	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	<b>☑</b> Cobbl	le 🗆 G	Gravel	□ Sand	<b>☑</b> Silt/ cla	ay 🗆 (	Organic
Observations											
Riparian Zone Prese	nt: 🗆 Ye	es	<b>1</b>	No							
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	V S	Saplings/S	Shrubs	✓ Herbs					
Dominant Bank Vege Scirpus cf. hattorianu	etation (list s, Carex cr	): inita, Rub	ous idaeus	s, Impatier	ns capens	is, Tsuga can	adensis, Abi	es balsamea			
Aquatic Habitats (ex: Pools, overhanging ve	submerged or egetation, o	emerged accoarse wo	quatic vegetat Dody debri	tion, overhan	iging banks/ro	oots, leaf packs, la	rge submerged w	vood, riffles, deep po	ools, etc.):		
Aquatic Organisms ( Frogs and frog eggs.	Observed	(list):									
<b>Disturbances</b> (ex: live Portion of stream runs	stock acces s through o	s, manure pen fores	in waterboost road.	dy, waste d	lischarge pi	pes):					
Observation Notes: Narrow intermittent st	ream runni	ng acros	s open for	est road.							



sirc1003i\_SE (across)



sirc1003i\_NE (downstream)



Traterbeay Bata C									
Description									
Project Name:				Date:			Waterbody S	urvey ID:	
Line 5 Relocation Project				2020-05-19			sirc1002e		
State:	С	ounty/Parish:		USGS Wate	erbody Name	<b>9</b> :			
Wisconsin	lı	ron		None					
Company:	С	rew Member Ini	tials:	Latitude:			Longitude:		
Enbridge	E	JO/JSW		46.459887			-90.507550		
Survey Type:	Centerlin	ie □ Re-Ro	ute $\square$	Access Road	□Facility	☑Other			
'	River	✓ Strean	n 🗆	Ditch	☐ Swale	☐ Canal		Other	
,	lo Wate	r 🗆 Clear		Turbid	□Sheen o Surface	n □Surfac	e Scum 🗹 A	Igal Mats	□Other
	Highly F	unctional Stream	✓ Moderate	ly Functional	Stream	☐ Functionally	Impaired Strea	ım	
Feature Description:	Vatural	✓ Artificia	al, man-made 🛚	Manipulated					
Flow Regime:	pheme	ral 🗆 Interm	ittent	Perennial	☐ Connec	cting			
Sinuosity within Survey Corridor: (check one)	Straight	<b></b> Meand	dering		<b>C</b> Wale				
Measurements									
Depth of Water: 0.5 ft.	N	I/A□ Unknov	wn□ Water Edg	e to Water Ed	<b>ige:</b> <u>2</u> ft	. N/A□	OHWM Width	: <u>2</u> ft.	
OHWM Indicator: (check all that apply)	☐ Cle	ar line on bank	<b>☑</b> Shelving	□Wrested v	regetation	<b>☑</b> Scouring		□Water sta	aining
(oneon an anat apply)		t, matted, or g vegetation	□Wrack line	□Litter and	debris	□Abrupt plan change	t community	□Soil char change	acteristic
Dominant Substrate: (check all that apply)	□ Bed	lrock ☐ Bo	ulder   Cobl	ble 🗹	Gravel	□ Sand	<b>☑</b> Silt/ clay	□ O	rganic
Observations									
Riparian Zone Present: (check one)	☐ Yes		No						
Vegetation Layers: (check all that apply)	□ Tree	es 🗹	Saplings/Shrubs	✓ Herbs	3				
Dominant Bank Vegetation Salix sp., Plantago cf. land	on (list): eolata,	Trifolium repens,	Agrostis gigantea						
Aquatic Habitats (ex: submit Low quality pool present.	erged or er	merged aquatic vegeta	tion, overhanging banks/	roots, leaf packs, l	arge submerged	wood, riffles, deep po	ools, etc.):		
Aquatic Organisms Obse None observed.	erved (lis	st):							
Disturbances (ex: livestock Waterbody located within	access, excavate	manure in waterbood ed gravel pit.	dy, waste discharge p	oipes):					
Observation Notes: Feature runs through grav	el pit, flo	ows under culver	and drains outsic	de of survey a	rea to forest t	to the north.			



sirc1002e\_SW (across)



sirc1002e\_N (downstream)



sirc1002e\_S (upstream)

Waterbody Date	a Silect										
Description											
Project Name:						Date:			Waterbody	/ Survey ID:	
Line 5 Relocation Pro	ject					2020-05-30			sirc1005p		
State:		County/	Parish:			USGS Wate	rbody Name	<b>)</b> :			
Wisconsin		Iron				Potato Rive					
Company:		Crew Mo	ember Ini	tials:		Latitude:			Longitude:		
Enbridge		EJO/JS	W			46.467955			-90.483484	1	
Survey Type: (check one)	☐ Centerl	ine	☐ Re-Ro	ute	<b>V</b> A	Access Road	□Facility	□Other			
Waterbody Type:	☑ River		☐ Stream	n		Ditch	☐ Swale	☐ Cana		Other	
Water Appearance: (check one)	□ No Wa	ter	✓ Clear		□Т	urbid	☐ Sheen or Surface	n □Surfac	e Scum	☐Algal Mats	□Other
Existing Condition <sup>a</sup> : (check one)	☑ Highly	Function	nal Stream	ı 🗆 N	Moderately	/ Functional S		☐ Functionally	Impaired St	ream	
Feature Description: (check one)	✓ Natural		☐ Artifici	al, man-m	iade 🗆 I	Manipulated					
Flow Regime: (check one)	☐ Ephem	eral	☐ Interm	ittent	<b>V</b>	Perennial	☐ Connec	eting			
Sinuosity within Survey Corridor: (check one)	☐ Straigh	t	✓ Mean	dering							
Measurements											
Depth of Water: 3	ft.	N/A□	Unkno	wn□ <b>W</b>	ater Edge	to Water Ed	<b>ge:</b> 45 ft.	. N/A□	OHWM Wid	<b>dth:</b> <u>50</u> f	t.
OHWM Indicator: (check all that apply)	☑ CI	ear line o	on bank	☑Shelv	ving	□Wrested v	egetation	✓ Scouring		□Water	staining
		nt, matte		□Wrac	k line	□Litter and	debris	☐Abrupt plan change	t community	y □Soil ch change	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	<b>☑</b> Cobb	le 🗹 (	Gravel	☐ Sand	☐ Silt/ cl	ay 🗆	Organic
Observations											
Riparian Zone Prese	nt: 🗹 Ye	es		No							
Vegetation Layers:	<b>☑</b> Tr	ees		Saplings/	Shrubs	✓ Herbs					
Dominant Bank Vege Acer saccharinum, Fr	etation (list axinus nigr	): a, Fraxin	nus penns	ylvanica, ľ	Matteuccia	a struthiopteri	s, Onoclea s	ensibilis, Carda	mine diphyl	la, Alnus inca	ına
<b>Aquatic Habitats</b> (ex: Runs and riffles, pere	submerged or nnial flow,	emerged acoverhanç	quatic vegeta ging bank	tion, overhan vegetation	nging banks/ron, coarse v	oots, leaf packs, la woody debris	irge submerged	wood, riffles, deep p	ools, etc.):		
Aquatic Organisms ( Minnows.	Observed (	(list):									
<b>Disturbances</b> (ex: live None observed at sar	stock acces nple point.	s, manure	in waterbo	dy, waste d	lischarge pi	pes):					
Observation Notes: The river is intact at the	ne sample	point.									



sirc1005p\_W (across)



sirc1005p\_SW (downstream)



sirc1005p\_N (upstream)

Waterbody Data	Silect										
Description											
Project Name:						Date:			Waterbody	Survey ID:	
Line 5 Relocation Proje	ect					2020-06-16			sird016p_x		
State:		County/F	Parish:			USGS Wate	rbody Name:				
Wisconsin		Iron				Vaughn Cre	∍k				
Company:		Crew Me	ember Init	tials:		Latitude:			Longitude:	!	
Enbridge		SBR/DG	iL			46.492310			-90.486297	7	
Survey Type: (check one)	☐ Centerl	ine	☐ Re-Ro	ute		Access Road	□Facility	□Other			
Waterbody Type: (check one)	□ River		✓ Stream	n		Ditch	☐ Swale	☐ Canal		Other	
Water Appearance:	□ No Wa	ter	✓ Clear			Γurbid	☐Sheen on Surface	□Surfac	e Scum 🗆	∃Algal Mats	□Other
Existing Condition a: (check one)	<b>☑</b> Highly	Function	al Stream	<b>√</b> 1	Moderately	y Functional S		Functionally	Impaired Str	ream	
Feature Description: (check one)	✓ Natural		☐ Artificia	al, man-m	nade 🗆	Manipulated					
Flow Regime: (check one)	□ Ephem	eral	☐ Interm	ittent	₹	Perennial	☐ Connect	ting			
Sinuosity within Survey Corridor: (check one)	□ Straigh	t	<b>✓</b> Meand	dering							
The feature is a perent	iiai sii caii	T WINCIT II	leariuers	unougni	ne survey	анса.					
Measurements											
Depth of Water: 0.3	_ft.	N/A□	Unknov	wn□  W	ater Edge	to Water Ed	<b>ge:</b> <u>5</u> ft.	N/A 🗆	OHWM Wid	dth: <u>10</u> ft	t.
0184741 1: 4				701				<b>∀</b> (0 :			
OHWM Indicator: (check all that apply)	□ Ci	ear line o	on bank	<b>I</b> Shel	ving	□Wrested v	egetation	✓Scouring		□Waters	staining
		nt, matte		□Wrad	ck line	□Litter and	debris		t community	y □Soil cha change	aracteristic
Dominant Substrate: (check all that apply)	□Ве	edrock	□ Во	ulder	✓ Cobb	le 🗹 🤆	Gravel	<b>☑</b> Sand	☑ Silt/ cla	ay 🗆 (	Organic
Observations											
Riparian Zone Presen	t: <b>▼</b> Ye	es		No							
Vegetation Layers: (check all that apply)	<b>☑</b> Tr	ees	✓ :	Saplings/	Shrubs	✓ Herbs					
Dominant Bank Veget Acer saccharum, Betu	t <b>ation</b> (list a allegha	hiensis, A	bies bals	amea, Ca	arex crinita	ı, Carex lacus	tris, Phalaris	arundinacea			
<b>Aquatic Habitats</b> (ex: s Pools, riffles, gravel ba	ubmerged or I <b>rs</b> .	emerged aq	uatic vegetal	tion, overhar	nging banks/r	oots, leaf packs, la	rge submerged w	rood, riffles, deep po	ools, etc.):		
Aquatic Organisms O Aquatic invertebrates.	bserved (	(list):									
<b>Disturbances</b> (ex: lives Some invasive species		s, manure	in waterboo	dy, waste o	discharge p	ipes):					
Observation Notes: Adjacent to a steep slo	ppe.										



sird016p\_x (across)



sird016p\_x (downstream)



sird016p\_x (upstream)

Trate: Beay Batt	2 011000													
Description														
Project Name:							Date:					Waterbody Survey ID:		
Line 5 Relocation Project						2020-05	2020-05-18				sirc1001e			
State:	County/Parish:				USGS V	USGS Waterbody Name:								
Wisconsin		Iron				None	None							
Company:	Crew Member Initials:				Latitude	Latitude:				Longitude:				
Enbridge		EJO/JSW				46.5036	46.503690				-90.482615			
Survey Type: (check one)	☑ Centerle	ine	☐ Re-Ro	ute		Access R	oad	□Facility		Other				
Waterbody Type:	□ River		☐ Stream	n	V	Ditch		☐ Swale		Canal		ther		
Water Appearance:	<b>☑</b> No Wa	ter	· □ Clear			Turbid			Surfac	e Scum	gal Mats	Other		
(check one)  Existing Condition a: (check one)	Surface  dition a: ☐ Highly Functional Stream ☑ Moderately Functional Stream ☐ Functionally Impaired Stream													
Feature Description:	☐ Natural		✓ Artificia	al, man-	-made $\square$	Manipula	ted							
Flow Regime:	<b>E</b> Ephem	eral	☐ Interm	ittent		Perennia	ıl	☐ Connection Swale	ting					
Sinuosity within Survey Corridor: (check one)			t ☐ Meandering				2							
Description Notes: Roadside ditch with ol time of survey.	d railroad t	ies scatt	ered throu	ughout.	Dominant	ditch vege	tation	includes red	d maple, l	big-toc	oth aspen, and	Canada	mayflower at	
Measurements														
Depth of Water: 1	ft.	N/A□	Unknov	wn 🗆 🖹	Water Edg	ge to Wate	r Ed	ge: <u>NA</u> ft.	. N	/A 🗆	OHWM Width	: 2	_ft.	
OHWM Indicator: (check all that apply)	□ CI	☐ Clear line on bank ☐ Shelving			□Wrest	□Wrested vegetation □Scouri			ring	□Water staining				
		nt, matte			ack line	Litter	and c	lebris	✓ Abrupt plan change		t community	☐Soil characteristic change		
Dominant Substrate: (check all that apply)	□ Ве	edrock	□ Во	ulder	□ Cob	ble	□G	ravel	☐ Sand		✓ Silt/ clay		Organic	
Observations														
Riparian Zone Preser	nt: 🗆 Ye	es	<b>V</b> 1	No										
Vegetation Layers:	<b>☑</b> Tr	ees		Sapling	s/Shrubs	<b>I</b> H	erbs							
Dominant Bank Vege Populus grandidentata	tation (list a, Acer rub	rum, Cor	rylus cornu	uta, Pru	nus serotir	na, Carex p	pedui	nculata, Maia	anthemum	n cana	dense, Mitche	lla repen	ıs	
Aquatic Habitats (ex: None observed.	submerged or	emerged a	quatic vegeta	tion, overh	nanging banks	s/roots, leaf pa	icks, la	rge submerged w	wood, riffles,	deep po	ools, etc.):			
Aquatic Organisms O None observed.	Observed (	(list):												
<b>Disturbances</b> (ex: live Runoff from adjacent		s, manure	in waterboo	dy, waste	e discharge	pipes):								
Observation Notes: Ditch adjacent to snow	vmobile tra	iil.												



sirc1001e\_S (across)



sirc1001e\_SE (downstream)



sirc1001e\_NW (upstream)