



Figure 14: Top of deck (looking north)



Figure 16: Typical rear of bearing (SE)



Figure 13: SW bearing (at end of slotted hole)



Figure 15: Typical front of bearing (SE)



Bridge No.	2017-2 32.3	2318-	Road	Name	Meadowl	eadowbank to Amaruq					Inspection Date		201	7-07-14				
STA.			Forest D)istrict					Acc	cess Note	es							
32.3 km						╗								1				
Bridge Length			Stream C	rossing					Ins	pected B	Ву							
45.72 o/o m									R.	Smertina	a							
UTM Zone			Easti	ing					ı	Vorthing								
						7												
No. Spans	3	Insta	illation Da	ate	Current L	Load	Rating		Dec	k Width			Projec	t No).		Anticip eplace	ated ement
1			2017						790	00 mm								
Span / Length	(m)	1	44.88	2		3		П	4			5			6	•	7	
Comments		single s		l girders	(installed	in 3 n	ieces sn	liced) with	precast o	onere	ete de	ck and i	ntea	ral abut	ments		
Abutment, spa	Poor:	Structure	ally unsou	ınd, maj	ow modera or items in ink, facing	need	of repair	or re	eplace	ment, or	bridg	e loa	d rating s					
Approach Road	i		Go	od	some gap	ps in I	road emb	ankr	ment a	pproach	deck	edge						
Alignment			Go	od	straight													
Visibility			Go	od	weather	deper	ndent											
Signage			N	/A	temporar	y sigr	nage inst	alled	currer	ntly								
Delineators			N	/A	none													
Overall			Go	od														
Deck - Span 1																		
Running Surface	ce		Go	od	lifting lug	pock	ets expo	sed to	o grave	el and tra	ffic in	npact						
Grout Pockets			Go	od	formwork still installed on bridge - unconfirmed whether drip grooves were installed in CIP deck portions							o deck						
Curb Rails and	Risers		Go	od														
Hardware			Exce	ellent														
Overall			Go	od														
Superstructure	- Span	1			_													
Girders			_	od	Minor box	wing	observed	l in gi	irder w	ebs, part	ticular	rly at	splice po	oints.				
Bracing			-	od														
Diaphragms			_	od														
Hardware			_	ellent														
Overall	Good																	



Bridge No.	2017-2318- 32.3	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-14						
Abutment - North											
Bearings Poo			bearings not aligned within keeper bars. pillowing effects observed at front of bearings guide plates nearing limit of travel in slot.								
Bracing		Good									
Ballast Wall		Good	some loose evazote under ballast wall and at joint with deck. some minor spalling evident at welded embedded plate locations								
Corrosion Prot	ection	N/A	weathering steel								
Caps or Sills		Good	minimal settlement. appear level.								
Fill		Good	approach grading has some gaps/dips near the ends of the de	ck							
Hardware		Excellent									
Riprap		Excellent									
Wingwall		Good									
Overall		Good									
Abutment - So	uth										
Bearings		Poor	bearings not aligned within keeper bars. top front keepers were removed by the contractor during instal pillowing effects observed at front of bearings guide plates nearing limit of travel in slot.	lation.							
Bracing		Good									
Ballast Wall		Good	some loose evazote under ballast wall and at joint with deck. some minor spalling evident at welded embedded plate locations								
Corrosion Prot	ection	N/A	weathering steel								
Caps or Sills		Good	minimal settlement. appear level.								
Fill		Good	approach grading has some gaps/dips near the ends of the de	ck							
Hardware		Excellent									
Riprap		Excellent									
Wingwall		Good									
Overall		Good									
Hazards											
High Water											
Scour											
Ice											
Debris											
Aggradation											
Channel											
Estimated Pres Level Depth	sent Water										
Estimated Pres Level Width	sent Water										
Estimated High Clearance	n Water Level										



Bridge	No.	2017-2318- 32.3	318- Road Name Meadowbank to Amaruq					2017-07-14			
Repair Description and Cost Estimate											
No.	Desc	ription	ty Cost Estim								
1	Jack	up girders and re	eset bearings to p	proper alignment.	High			\$0.00			
2		irm that all bracir ifications	Low			\$0.00					
3	Grou	t lifting lug pocke	ets in deck to prev	ent damage from gravel and traffic	Low			\$0.00			
4	Grad	e road embankm	nents to match br	idge deck width	Low			\$0.00			
5	Insta	ll railings meeting	g facility requirem	ents - ensure all anchor bolts are installed	Low			\$0.00			
6	Insta	ll permanent sigr	nage at bridge ap	proaches	Low			\$0.00			
	ed with	mobilization, der		ns reflects the cost of materials and labour for very of materials, engineering or contract adm		; it does no	ot include a	ny costs			
No.	Ť-	ription									
1	Moni	tor approach gra	ding regularly to	avoid traffic damaging the precast deck panel	edges						
2	Moni	tor for loose or m	nissing evazote at	t underside of ballast wall or joints and replace	e/repair as require	d					
Commen	ts					Seal	Seal				
	eratur	e on girders varie	es between 9 and n - minor noise ob	l 12 degrees Celcius eserved							



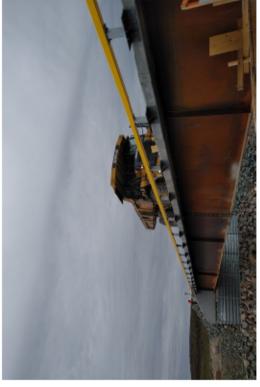


Figure 2: Bridge during July 15th load test



Figure 4: Deck soffit at ballast wall connection (SW corner)



Figure 1: Bridge - west side



Figure 3: Creek to west of bridge





Figure 6: Minor spall in deck soffit (NW corner)



Figure 8: North centre bearing - back west corner



Figure 5: General (looking NW)

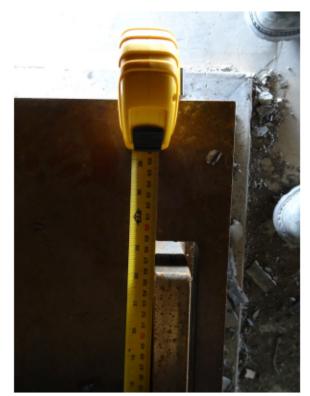


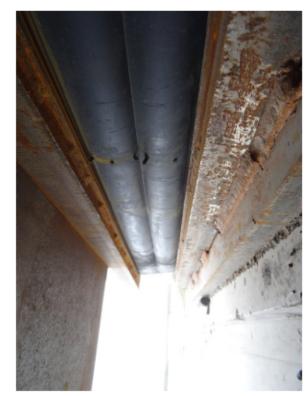
Figure 7: NE bearing remaining slot length



Bridge No. 2017-2318- Road Name Meadowbank to Amaruq Inspection Date 2017-07-14



Figure 10: North centre bearing front view



VI EL ZI II OI & & Z S S D Z S

Figure 9: Nort hcentre bearing - west side view



Figure 11: NW bearing remaining slot length

Figure 12: NW bearing front face





Figure 14: SW bearing (exterior back corner)



Figure 13: Road embankment (SE corner)



Figure 15: SW bearing (exterior front corner)





Figure 18: Top compression splice

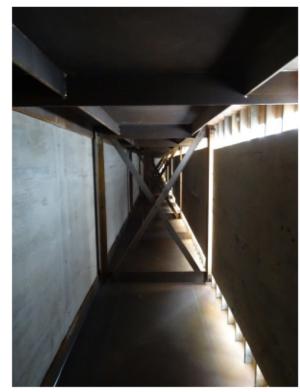


Figure 20: West bracing and temporary access platform (looking north)



Figure 17: SW exterior bearing slot



Figure 19: Top of deck



Bridge No.	2017- 43.5	2318-	Road	Name	Meadowbank	Meadowbank to Amaruq						Inspection Date		-07-14	
STA.			Forest D)istrict			Ac	cess Notes							
43.5 km															
Bridge Length			Stream C	rossing			Ins	pected By							
14.7 o/o m							R.	Smertina							
UTM Zone			East	ing				Northing							
No. Spans	,	Inete	allation Da	ate	Current Load	Patina	Dec	k Width		Projec				icipated lacement	
	,	IIISI		ate	Current Load	raung			+	Flojec	t NO.	IX	piacei	nent	
1			2017				79	00 mm		_		Щ,			
Span / Length	(m)	1	13.88	2	3		4		5		6		7		
Comments	S	single s	pan. stee	l girders	with precast c	oncrete d	eck and inte	egral abutme	nts						
Abutment, spa	Fair: Poor:	Structura Structura	ally sound	l, but sh ınd, maj	d repair and ha ow moderate w or items in nee ink, facing dov	ear or pre d of repai	eliminary ind r or replace	ment, or brid	ge lo	ad rating s					
Approach Road			E	air	Roadway em	hankment	only partia	lly complete	d from	south - h	ridae etill u	nder const	ruction		
Alignment			_	od	straight	Roadway embankment only partially completed from south - bridge still under construction traight									
Visibility			Go	od	weather depe	endent									
Signage			N	/A	none installed	i									
Delineators			N	/A	none										
Overall			Go	od											
Deck - Span 1															
Running Surface	ce		N	/A	Currently und	ler constru	uction - cas	t-in-place de	ck po	rtions not	constructed	d			
Grout Pockets			N	/A	Currently und	Currently under construction									
Curb Rails and	Risers		Fa	air	Not all intend	ed ancho	bolts insta	lled into the	deck						
Hardware			Go	od											
Overall			Go	od											
Superstructure	- Span	1													
Girders				ellent											
Bracing			-	od											
Diaphragms			-	od											
Hardware			-	ellent											
Overall			Go	od											



Bridge No.	2017-2318- 43.5	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-14					
Abutment - No	rth									
Bearings		Poor	Guide plates installed at inconsistent locations within slot. One has reached it's limit within the slot, no longer allowing bearing shear deformation.							
Bracing		Good								
Ballast Wall		Fair	Some loose and missing evazote under ballast wall and at joint with the precast deck panels. Large spall in NW corner, reinforcement visible Some minor spalls at welded steel plate locations. Ballast wall appears to be set on skew to supestructure							
Corrosion Prot	ection	N/A	weathering steel							
Caps or Sills		Good	footings appear level. minimal settlement.							
Fill		N/A	Roadway embankment not constructed							
Hardware		Good								
Riprap		Excellent								
Wingwall		Good								
Overall		Fair								
Abutment - Sou	uth									
Bearings		Poor	Guide plates installed at inconsistent locations within slot. One no longer allowing bearing shear deformation.	has reached it's limit	within the slot,					
Bracing		Good								
Ballast Wall		Good	Some loose and missing evazote under ballast wall and at joint with the precast deck panels. Some minor spalls at welded steel plate locations. Ballast wall appears to be set on skew to supestructure							
Corrosion Prot	ection	N/A	weathering steel							
Caps or Sills		Good	footings appear level. minimal settlement.							
Fill		Poor	Incomplete grade. Significant drop between top of deck and ro	adway embankment.						
Hardware		Excellent								
Riprap		Excellent								
Wingwall		Good								
Overall		Fair								
Hazards										
High Water										
Scour										
Ice										
Debris										
Aggradation										
Channel										
Estimated Pres Level Depth	ent Water									
Estimated Pres Level Width	ent Water									
Estimated High Clearance	Water Level									



Bridge	No.	2017-2318- 43.5	Road Name Meadowbank to Amaruq Insp					2017-07-14		
Repair De	escrip	tion and Cost E	stimate							
No.	Description Priority									
1		of the bridge to m	nbankment tempo ninimize asymme	High		\$0.00				
2			set bearings to ac y embankment fil	ccurate and symmetrical alignment prior to	High			\$0.00		
3		air spalled concre prcement is visibl		st components, particularly where	Mediun	n		\$0.00		
4	Ensu		are installed in ca	st-in-place deck formwork prior to pouring	Mediun	n		\$0.00		
5	Insta	Il railings meeting	g facility requirem	ents - ensure all anchor bolts are installed	Low			\$0.00		
6		irm that all bracir ifications	ng and bolted con	nections are tightened according to project	Low		\$0.00			
7	Insta	ll permanent sigr	nage at bridge ap	proaches	Low	\$0.				
The cost	estima ed with	ite for individual r mobilization, der	maintenance item	ents to extend service life as reflects the cost of materials and labour for very of materials, engineering or contract adm		; it does no	ot include a	ny costs		
No.	Ť	ription								
1	_	•	nissing evazote at	t underside of ballast wall or joints and replace	e/repair as require	d				
2	Moni	tor approach gra	ding regularly to	avoid traffic damaging the precast deck panel	edges					
Commen	its					Seal				
Girder ski	in temp	ns 11:00 am and perature varies fr ducted, unfinishe	om 9 to 11.3 degi	rees Celcius						





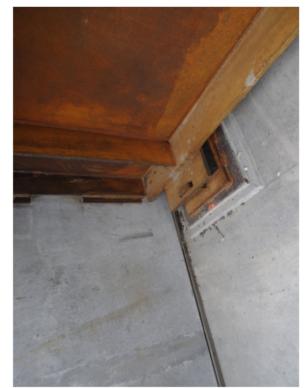


Figure 4: SE bearing slotted hole







Figure 3: SE bearing (front west comer)





Figure 6: South bin wall



Figure 8: Southeast approach - partially filled



Figure 5: South abutment



Figure 7: South deck to ballast wall connection