



Figure 2: Deck joint (at northwest)

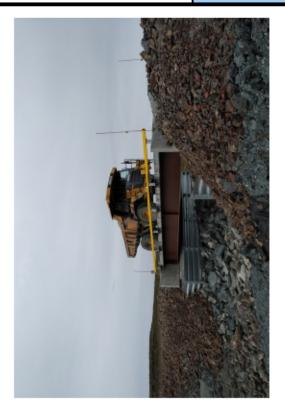


Figure 4: Load Test (View from NE of bridge)



Figure 1: creek under bridge - looking east



Figure 3: Deck to ballast wall joint (NE)





Figure 6: Bridge under light load (looking south)



Figure 8: Northeast ballast wall and evazote



Figure 5: Deck level - looking south



Figure 7: Northeast abutment diaphragm and footings





Figure 10: South Abutment



Figure 12: Minor concrete spall, underside of deck (NW corner)



Figure 9: Minor concrete spall at NE abutment



Figure 11: Souteast abutment diaphragm and ballast wall





Figure 14: Typical bearing (NW)

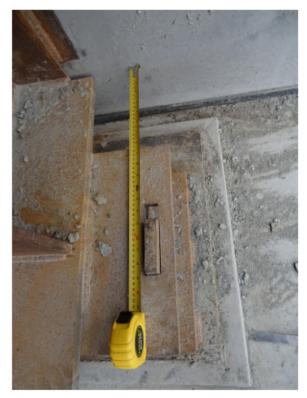


Figure 16: Typical bearing guide plate at the end of its slot



Figure 13: Typical back of bearing (NW)



Figure 15: Typical bearing with keepers (southwest)



Bridge No.	2017-2 10.7	2318-	Road	Name	Meadow	bank t	ank to Amaruq						Inspection Date		201	17-07-15		
STA.			Forest [	District					Acc	cess Note	es							
10.7 km																		
Bridge Length			Stream C	rossing			Inspected By											
14.7 o/o m									R.	Smertina	а							
UTM Zone			East	ing					ı	Vorthing								
No. Spans	3	Ins	tallation D	ate	Current	Load I	Rating		Dec	k Width			Project	Anticipate ct No. Replaceme				
1			2016						790	00 mm								
Span / Length	(m)	1	13.88	2		3			4			5		6		7		
Comments	3	single	span, stee	girders	s, precast o	concre	te deck,	integ	gral abu	utments								
Excellent: New or almost new condition and properly installed Good: Structurally sound, in good repair and have minimal wear Fair: Structurally sound, but show moderate wear or preliminary indications of rot or corrosion Poor: Structurally unsound, major items in need of repair or replacement, or bridge load rating should be reduced Abutment, spans, piers numbered from left bank, facing downstream / girders numbered from upstream to downstream.  Approaches																		
Approach Road	1		Go	ood	Some ga	ns in	road em	bank	ment a	pproachi	ina d	eck e	dae					
Alignment	Alignment Good			Horizont						_								
Visibility			Go	ood	Weather	ather dependent												
Signage			N	/A	Tempora	rary signage installed currently												
Delineators			N	/A	None													
Overall			Go	ood														
Deck - Span 1																		
Running Surface	ce		Go	ood	Lifting lu	g lug pockets exposed to gravel and traffic impact												
Grout Pockets			Go	ood														
Curb Rails and	Risers		F	air		Only 2 of 3 anchor bolts currently installed at each connection - fit-up problems during construction at some locations												
Hardware	ware Excellent																	
Overall Good																		
Superstructure	- Span	1																
Girders			Exc	ellent														
Bracing			Go	ood	<u> </u>													
Diaphragms			Go	ood														
Hardware			Exc	ellent	<u> </u>													
Overall	Good																	



Bridge No. 2017-2318- 10.7	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15					
Abutment - North									
Bearings	Poor Some guide plates have reached or are near the limit of allowed movement. Some pillowing effects in neoprene pads is evident.								
Bracing	Good								
Ballast Wall	Good	Good Evazote under ballast wall appears loose and varies in thickness. Thicker pad to east of wall. Some minor spalling evident at welded embedded plate locations.							
Corrosion Protection	N/A	weathering steel							
Caps or Sills	Good	Footings appear level							
Fill	Good	Approach grading has some gaps near the ends of the deck							
Hardware	Excellent	weathering steel							
Riprap	Excellent								
Wingwall	Good								
Overall	Good								
Abutment - South									
Bearings		Bearing guide plates are near the limit of allowed movement. Some pillowing effects in neoprene pads is evident.							
Bracing	Good								
Ballast Wall	Good	Good Ballast wall has minor rotation, toe kicking in towards bridge.  Some minor spalling evident at welded embedded plate locations.							
Corrosion Protection	Excellent	llent weathering steel							
Caps or Sills	Excellent	Footings appear level							
Fill	Good	Approach grading has some gaps near the ends of the deck							
Hardware	Excellent	weathering steel							
Riprap	Excellent								
Wingwall	Good								
Overall	Good								
Hazards									
High Water									
Scour									
Ice									
Debris									
Aggradation									
Channel									
Estimated Present Water Level Depth									
Estimated Present Water Level Width									
Estimated High Water Level Clearance									



Bridge	ge No. 2017-2318- 10.7 Road Name Meadowbank to Amaruq					Inspection Date		2017-07-15				
Repair D	escript	ion and Cost E	stimate									
No.	Description Priority Co											
1		rm that all bracir fications	ng and bolted cor	Medium	n	\$0.00						
2		earing slots for g		low further movement - see report for	Medium	n		\$0.00				
3	Instal	l permanent sigr	nage at bridge ap	proaches	Low			\$0.00				
4	Grout	t lifting lug pocke	ts in deck to prev	vent damage from gravel and traffic	Low			\$0.00				
5	Instal	l railings meeting	g facility requirem	nents - ensure all anchor bolts are installed	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	_	•	nents to match br	idge deck width or provide delineation at gap								
2	+			oves at cast-in-place concrete deck soffit								
3	Monit	or for loose or m	nissing evazote at	t underside of ballast wall or joints and replace	e/repair as require	d						
4	Monit	or approach fills	regularly to avoi	d traffic damaging the precast deck panel edg	es							
Commen	nts					Seal						
Overcast	16 degr / Partly	rees C ambient t	•									





Figure 2: Minor deck soffit spall (SW corner)



Figure 4: Typical railing connection (SE)



Figure 1: South abutment



Figure 3: Typical bearing (SE)







Figure 8: General view from NE







Figure 7: Evazote under NE ballast wall





Figure 10: NW bearing - some slot length remaining

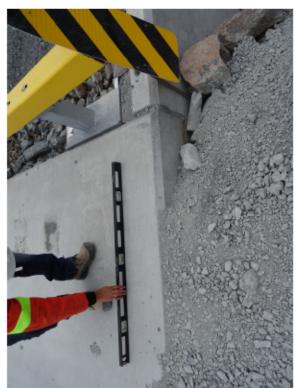


Figure 12: SE end of deck and road embankment



Figure 9: NE abutment diaphragm



Figure 11: Minor spall at NW deck soffit



Bridge No.	2017-: 16.0	2318-	Road Na	ame	Meadowb	Meadowbank to Amaruq						Inspec	tion Date	2017	7-07-15	
STA.	Forest District Access Notes															
16.0 km						┪										
Bridge Length			Stream Cro	ssing		T			Ins	pected By						
45.72 m						┪			R.	Smertina						
UTM Zone			Easting	q					N	lorthing						
						7										
No. Spans	3	Insta	allation Date	В	Current Lo	oad I	Rating		Deck	( Width		Projec	Anticipat ect No. Replacem			
1			2017						790	0 mm						
Span / Length	(m)	1	44.88	2		3			4		5		6		7	
Comments	3	single s	pan. steel g	girders	(installed in	1 3 s	pliced co	mpon	nents) i	with precas	t cond	rete deck	and integr	al abutmer	ts	
	Excellent: New or almost new condition and properly installed Good: Structurally sound, in good repair and have minimal wear Fair: Structurally sound, but show moderate wear or preliminary indications of rot or corrosion Poor: Structurally unsound, major items in need of repair or replacement, or bridge load rating should be reduced Abutment, spans, piers numbered from left bank, facing downstream / girders numbered from upstream to downstream.															
Approach Road			Excelle	ont	Г											
Alignment	<u> </u>		Good		straight											
Visibility			Good		weather de	epen	ndent	ent								
Signage			N/A			porary signage installed currently										
Delineators			N/A		none											
Overall			Good	d												
Deck - Span 1																
Running Surface	ce		Good	d	lifting lug p	oock	ets expos	sed to	grave	l and traffic	impa	ct				
Grout Pockets			Good	d	Drip grooves at CIP deck joints not installed (maintenance consideration)											
Curb Rails and	Rails and Risers Fair				Only 2 of 3 anchor bolts currently installed at each connection - fit-up problems during construction at some locations								struction			
Hardware	Good															
Overall			Good	d												
Superstructure	- Span	11														
Girders	Good Minor bowing observed in girder webs, particularly at splice points.															
Bracing			Good	d												
Diaphragms			Good													
Hardware			Excelle	ent												
Overall	Good															



Bridge No.	2017-2318- 16.0	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15						
Abutment - Nor	th										
Bearings		Fair	Guide plates are at or near the limit of allowed movement								
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 Prote	Corrosion Protection N/A weathering steel										
Caps or Sills		Good	Some minimal slope observed in top of footings. 7mm movement of longitudinal movement at NW corner.								
Fill		Good									
Hardware		Excellent									
Riprap		Excellent									
Wingwall		Good									
Overall		Good									
Abutment - Sou	ıth										
Bearings		Fair	Guide plates are at or near the limit of allowed movement								
Bracing		Good									
Ballast Wall		Good	some loose evazote under ballast wall and at joint with deck. Some minor spalling evident at welded embedded plate location	ons							
Corrosion Prote	ection	N/A	weathering steel								
Caps or Sills		Good	some minimal slope observed in footings.								
Fill		Good									
Hardware		Excellent									
Riprap		Excellent									
Wingwall		Good	minor spalling in precast concrete, likely during transport								
Overall		Good									
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- 16.0	Road Name	Meadowbank to Amaruq	Inspection Date		2017-07-15		
Repair D	escrip	tion and Cost E	stimate						
No.	Desc	ription		Priority	/	Cost Estimate			
1	Cut b	earing slots for g	guide plates to all	ow further movement	Medium	ı		\$0.00	
2		irm that all bracir ifications.	ng and bolted con	Low		\$0.00			
3	Insta	ll permanent sigr	nage at bridge ap	proaches	Low			\$0.00	
4	Grou	t lifting lug pocke	ets in deck to prev	ent damage from gravel and traffic	Low			\$0.00	
5	Insta	ll railings meeting	g facility requirem	nents - ensure all anchor bolts are installed	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	t include a	any costs	
No.	Desc	cription							
1	Moni	tor leakage due t	to lack of drip gro	oves at cast-in-place concrete deck soffit					
2	Moni	tor approach gra	ding regularly to	avoid traffic damaging the precast deck panel	edges				
3	Moni	tor for loose or m	nissing evazote at	t underside of ballast wall or joints and replace	e/repair as require	d			
4	Moni	tor leakage due t	to lack of drip gro	oves at cast-in-place concrete deck soffit					
Commer	nts					Seal			
14 degre	es C ar	n 11:50 am nbient temperatu cted earlier on Ju		ant noise observed					





Figure 2: General bridge (from SW)



Figure 1: Exterior of west girder (looking south)



Figure 3: Girder soffit (looking north)





Figure 6: NE bearing rear



Figure 8: NW bearing front (fabrication imperfection)



Figure 5: NE bearing front (some protrusion of neoprene over top keeper)



Figure 7: NW abutment diaphragm bracing