Bridge No.	2017-2318-23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13

Figure 6: SE binwall and ballast wall gap (top)

Figure 8: South centre bearing, front face

Figure 5: SE binwall and ballast wall (base)

Figure 7: Soffit of bridge and temporary access platforms (looking south)

Bridge No.	2017-2318-23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13

Figure 10: Top of deck (looking south)

Figure 12: Typical back of bearing (NW top)

Figure 9: Spall in deck soffit, north centre girder (west side)

Figure 11: Typical back of bearing (NW bottom)

Bridge No.	2017-2318-23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13

Figure 14: Typical girder splice top (NW first splice, west girder)

Figure 16: West internal bracing and temporary access platforms (looking south)

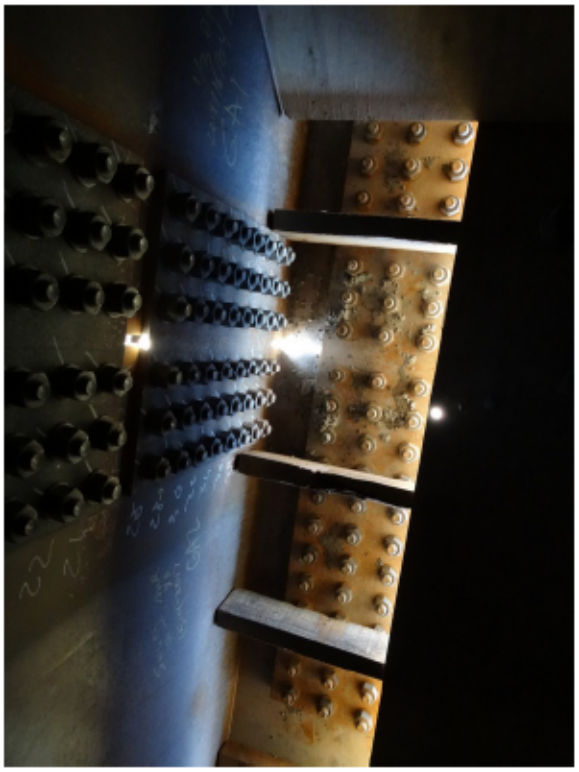

Figure 13: Typical girder splice bottom (NW first splice, west girder)

Figure 15: West girder outside face (looking south)

Bridge No.	2017-2318-23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13

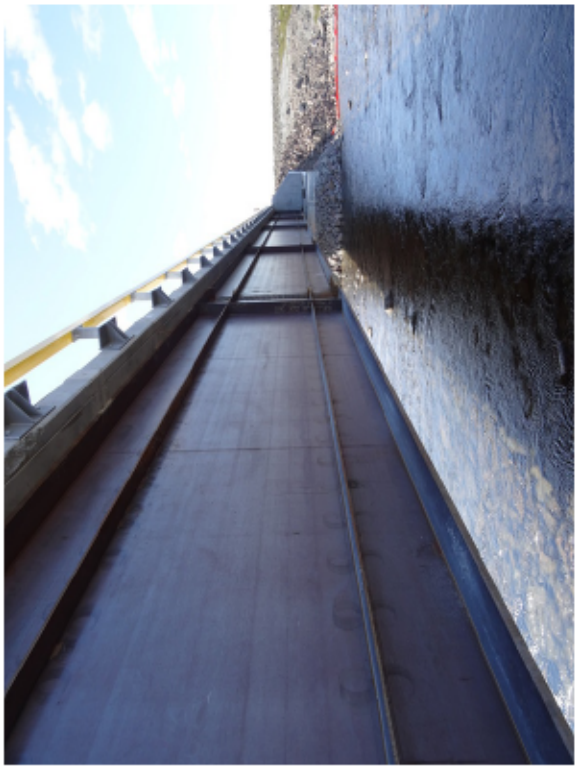

Figure 18: East girder (looking north)

Figure 20: General (NW corner, looking south)

Figure 17: Deck level (looking from NW corner)

Figure 19: Front of south bin wall abutment (looking west)

Bridge No.	2017-2318-23.9	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-13

Figure 22: Ne ballast wall and binwalls

Figure 24: NW abutment and bin walls

Figure 21: NE ballast wall and bin wall (side view)

Figure 23: NE ballast wall and deck edge (note evazote missing in joint)

Bridge Inspection Report
Agnico Eagle

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15

STA.	Forest District	Access Notes
26.1 km		
Bridge Length	**Stream Crossing**	**Inspected By**
14.7 o/o m		R. Smertina
UTM Zone	**Easting**	**Northing**

No. Spans	Installation Date	Current Load Rating	Deck Width	Project No.	Anticipated Replacement
1	2017		7900 mm		

Span / Length (m)	1	13.88	2		3		4		5		6		7	

Comments	single span. steel girders with precast concrete deck and integral abutments

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	Good	minor gaps in road embankment approaching deck edge
Alignment	Good	Straight
Visibility	Good	weather dependent
Signage	N/A	temporary signage installed currently
Delineators	N/A	none
Overall	Good	
Deck - Span 1		
Running Surface	Good	Lifting lug pockets plugged with gravel (maintenance concern)
Grout Pockets	Good	Drip grooves at CIP deck joints not installed (maintenance consideration)
Curb Rails and Risers	Fair	Only 2 of 3 anchor bolts currently installed at each connection - fit-up problems during construction at some locations
Hardware	Good	
Overall	Good	
Superstructure - Span 1		
Girders	Excellent	
Bracing	Good	
Diaphragms	Good	
Hardware	Excellent	
Overall	Good	

Bridge Inspection Report
Agnico Eagle

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15
Abutment - North					
Bearings		Poor	Guide plates are at 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 Minor rotation out of plumb (bottom of ballast wall kicks in, opposite of other abutment)		
Corrosion Protection		N/A	weathering steel		
Caps or Sills		Good	footings installed level		
Fill		Good	Some minor gaps in approach grading at the ends of the deck		
Hardware		Excellent			
Riprap		Excellent			
Wingwall		Good			
Overall		Good			
Abutment - South					
Bearings		Poor	Guide plates are at 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 Minor rotation out of plumb (top of ballast wall tips inwards)		
Corrosion Protection		Excellent	weathering steel		
Caps or Sills		Good	footings are installed with a minor nominal slope.		
Fill		Poor	Some minor gaps in approach grading at 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					

Associated Engineering | GLOBAL PERSPECTIVE. LOCAL FOCUS.

Bridge Inspection Report
Agnico Eagle

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15

Repair Description and Cost Estimate

No.	Description	Priority	Cost Estimate
1	Cut bearing slots for guide plates to allow further movement - see report for recommended amount	Medium	$0.00
2	Confirm that all bracing and bolted connections are tightened according to project specifications	Low	$0.00
3	Install permanent signage at bridge approaches	Low	$0.00
4	Clean out and grout lifting lug pockets in deck to prevent damage from gravel and traffic	Low	$0.00
5	Install railings meeting facility requirements - ensure all anchor bolts are installed	Low	$0.00
6	Maintain road embankments to match bridge deck width or provide delineation at gap locations	Low	$0.00
7	Repair concrete spall areas where steel reinforcing is exposed	Low	$0.00

High: Immediate, non-recurring repair to assure public safety
Medium: Ongoing, regular maintenance items to protect capital investment
Low: Minor maintenance items or improvements to extend service life

The cost estimate for individual maintenance items reflects the cost of materials and labour for completing a task; it does not include any costs associated with mobilization, demobilization, delivery of materials, engineering or contract administration.

Monitoring Items

No.	Description
1	Monitor approach grading regularly to avoid traffic damaging the precast deck panel edges
2	Monitor for loose or missing evazote at underside of ballast wall or joints and replace/repair as required
3	Monitor ballast walls for further movement

Comments	Seal
Partial Inspection 12:00 pm Girder exterior face skin temperature varies from 8.9 to 12 degrees Celcius Load test conducted on July 15th - minor noise observed	

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15

Figure 2: General west side, looking north

Figure 4: North abutment

Figure 1: Approach from south

Figure 3: Minor spall in deck soffit (SW corner)

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15

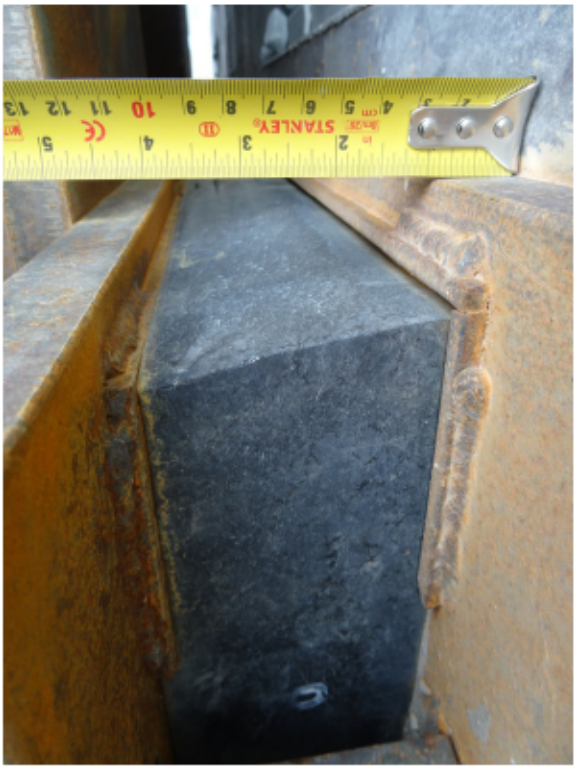

Figure 6: NW bearing - front west corner

Figure 8: SE deck and ballast wall end

Figure 5: NW bearing - back west corner

Figure 7: Railing bracket installation (SW end)

Bridge No.	2017-2318-26.1	Road Name	Meadowbank to Amaruq	Inspection Date	2017-07-15

Figure 10: SW ballast wall and deck joint from above

Figure 12: SW bearing front face

Figure 9: Spall in dek panel corner (SE)

Figure 11: SW bearing back face