

Fish Passage Site 20400591

Coordinates (dec. deg.): 61.72791°, -148.91054°
Legal Description: S019N003E21
Region: South Central
Road Name: Jonesville Mine Road

Datum: NAD83
Quad Name / ITM: Anchorage C-6
AWC Stream #:
Stream Name: Eska Creek

Elevation:

Site Comments: None

Survey [MSB10-JMR01](#)

Survey Date: Jun 23, 2010 

Project Supervisor: Gillian O'Doherty, ADFG
Observers: Ben Histan, Abraham Gioffre

Overall Fish Passage Rating: Gray

Tidal: No **Step Pools:**
Backwatered: No **Construction Year:**

Site Observations:

1. Culvert gradient red
2. Culvert gradient gray
3. Sediment accumulation

Comments: Step pools below pipe in channel. Pipe 1 only has rust on one side where small amount of water runs, besides that it is dry. It does, however, have water at its outlet pooled up due to pipe 2s outlet flow backing up into it.

Culvert Measurements

ID: 1 Structure Type: Pipe-arch (Structural steel plate)

Fish Passage Rating: Red

Length(ft): 100.05		Inlet	Outlet	Backwatered?: No
Inlet Type: Mitered	Width(ft):	12.75	12.75	Baffles Present: No
Outlet Type: Mitered	Height(ft):	8.2	8.2	Embedded?: No
Corrugation Depth(in.): 1.5	Apron Length(ft):	0.0	0.0	Embedded Depth(ft): 0.0
Corrugation Width(in.): 6.0	Water Depth(ft):		1.16	Outfall Height: 0.0
Condition Rating(1-5): 4	Rustline Height(ft):	1.4		Outfall Type: At Stream Grade
Approach Angle: 12.0	Substrate Depth(ft):	0.0	0.0	Constriction Ratio: 1.14
Sedimentation At Inlet: Yes				Culvert Gradient: 1.15%
Inlet Substrate: None				Max Slope:
Outlet Substrate: None				Max Slope Length:

Culvert Observations:

1. Culvert gradient red
2. Sediment accumulation

ID: 2 **Structure Type:** Pipe-arch (Structural steel plate)

Fish Passage Rating: Gray

Length(ft): 99.6		Inlet	Outlet
Inlet Type: Mitered	Width(ft):	12.75	12.75
Outlet Type: Mitered	Height(ft):	6.5	8.2
Corrugation Depth(in.): 1.5	Apron Length(ft):	0.0	0.0
Corrugation Width(in.): 6.0	Water Depth(ft):		0.99
Condition Rating(1-5): 4	Rustline Height(ft):	0.75	
Approach Angle: 12.0	Substrate Depth(ft):	1.55	0.0
Sedimentation At Inlet: No			
Inlet Substrate: Gravel			
Outlet Substrate: None			

Backwatered?: No
Baffles Present: No
Embedded?: No
Embedded Depth(ft): 0.0
Outfall Height: 0.0
Outfall Type: At Stream Grade
Constriction Ratio:
Culvert Gradient: 2.37%
Max Slope:
Max Slope Length:

Culvert Observations:

1. Culvert gradient gray

Stream Measurements

Stream Substrates	Upstream	Downstream
Dominant:	Gravel	Gravel
Subdominant:	Cobble	Cobble

Stream Slope(deg.):
Stream Flow Stage: Medium

Stream Width Type	Distance From Crossing (ft)	Stream Width (ft)
Upstream ordinary high water	100.0	24.00
Upstream ordinary high water	146.0	21.00
Upstream ordinary high water	183.0	16.50

Elevations

Locator ID	Culvert Number	River Distance (ft) ¹	Distance From Crossing (ft) ²	Relative Elevation (ft)
Road Elev				100.55
D/S Grade Ctrl (Thalweg) (DS grade point)		4.00		84.81
D/S Water Surface Elev		4.00		85.73
Max Pool Depth (DS profile-Bottom of outlet pool)	1	28.50		84.71
D/S Tailcrest or 1st Thalweg (TWC)	2	29.50		85.31
D/S Water Surface Elev	2	29.50		86.62
Max Pool Depth (DS profile-Bottom of outlet pool)	2	33.70		83.82
Outlet Invert (on substrate)	2	34.00		85.42
Outlet Pool Water Elev (TWS)	2	34.00		86.58
Outlet Invert (bottom of pipe)	1	34.00		85.42
Outlet Pool Water Elev (TWS)	1	34.00		86.41
Top of Pipe Outlet	1	41.00		93.80
Top of Pipe Outlet	2	41.00		93.82
Top of Pipe Inlet	2	126.00		94.62
Top of Pipe Inlet	1	126.00		94.72
Inlet Culvert Invert (bottom of pipe)	1	134.00		87.78
U/S Headwater	1	134.00		87.89
Inlet Culvert Invert (bottom of pipe)	2	134.00		86.57
U/S Headwater	2	134.00		87.61
U/S Grade Ctrl (Thalweg) (US grade point)	1	153.00		88.75
U/S Water Surface Elev	1	153.00		89.10
U/S Grade Ctrl (Thalweg) (US grade point)	2	174.00		88.43
U/S Water Surface Elev	2	174.00		89.36

Notes:

1. River distance is measured continuously throughout the survey reach along the thalweg of the stream.
2. Measured from each end of the crossing along the thalweg of the stream.

Fish Sampling Efforts

No fish sampling occurred during this survey.

Fish Observations

No fish observations occurred during this survey.

Photos



Questions or comments about this report can be directed to dfg.dsf.webmaster@alaska.gov

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Road Name: Jonesville Mine Road

Datum: NAD83
Quad Name / ITM: Anchorage C-6
AWC Stream #:
Stream Name: Eska Creek

Elevation:

Site Comments: None

Survey [CRB02-JV269](#)

Survey Date: Sep 13, 2002

Observers: Dean Beers, James Laurence, James Laurence

Overall Fish Passage Rating: **Red**

Tidal: No **Step Pools:**
Backwatered: No **Construction Year:**

Site Observations:

1. Outfall height red

Comments: None

Culvert Measurements

ID: 1 Structure Type:N/A

Fish Passage Rating: **Gray**

Length(ft): 100.0		Inlet	Outlet	Backwatered?:
Inlet Type:	Width(ft):	12.0		Baffles Present: No
Outlet Type:	Height(ft):	7.0		Embedded?: No
Corrugation Depth(in.):	Apron Length(ft):			Outfall Height:
Corrugation Width(in.):	Water Depth(ft):		0.4	Outfall Type: Free Fall In To Pool
Condition Rating(1-5):	Rustline Height(ft):	0.9		Constriction Ratio:
Approach Angle:	Substrate Depth(ft):			Culvert Gradient: 0.94%
Sedimentation At Inlet:				Max Slope:
Inlet Substrate:				Max Slope Length:
Outlet Substrate:				

Comments: Gradient measured using top of pipe

ID: 2 Structure Type:N/A

Fish Passage Rating: **Red**

Length(ft): 100.0		Inlet	Outlet	Backwatered?:
Inlet Type:	Width(ft):	12.0		Baffles Present: No
Outlet Type:	Height(ft):	8.3		Embedded?: No
Corrugation Depth(in.):	Apron Length(ft):			Outfall Height:
Corrugation Width(in.):	Water Depth(ft):		0.3	Outfall Type:
Condition Rating(1-5):	Rustline Height(ft):	1.2		Constriction Ratio:
Approach Angle:	Substrate Depth(ft):			Culvert Gradient: 2.95%
Sedimentation At Inlet:				Max Slope:
Inlet Substrate:				Max Slope Length:
Outlet Substrate:				

Comments: Gradient measured using inverts.

Stream Measurements

Stream Substrates **Upstream** **Downstream**
Dominant:
Subdominant:

Stream Slope(deg.):
Stream Flow Stage:

Stream Width Type	Distance From Crossing (ft)	Stream Width (ft)
Upstream ordinary high water	50.0	28.00
Upstream ordinary high water	75.0	21.00
Upstream ordinary high water	100.0	17.00

Elevations

Locator ID	Culvert Number	River Distance (ft) ¹	Distance From Crossing (ft) ²	Relative Elevation (ft)
D/S Tailcrest or 1st Thalweg				81.69
Outlet Invert	2	0.00	0.0	81.00
Outlet Thalweg	2	0.00	0.0	80.67
Outlet Culvert Top	1	0.00	0.0	90.99
Outlet Thalweg	1	0.00	0.0	81.24
Inlet Culvert Invert	2	100.00	0.0	83.95
Inlet Thalweg	2	100.00	0.0	83.95
Inlet Culvert Invert	1	100.00	0.0	91.93
Inlet Thalweg	1	100.00	0.0	84.84

Notes:

1. River distance is measured continuously throughout the survey reach along the thalweg of the stream.
2. Measured from each end of the crossing along the thalweg of the stream.

Fish Sampling Efforts

No fish sampling occurred during this survey.

Fish Observations

No fish observations occurred during this survey.

Photos



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