

PHOTO SUMMARY

Site Name: Gallatin River at I-90 near Manhattan, MT

Site ID: 019

Photos By: T. Dudunake

Date: 07/13, 07/27/2016



Photo #001

**1 channel-width
U/S of bridge**

**Upstream
left bank**

Comments:



Photo #002

**1 channel-width
U/S of bridge**

**Upstream
right bank**

Comments:

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Photo #003

**1 channel-width
U/S of bridge**

**Upstream looking
D/S at bridge**

Comments:



Photo #004

**Immediately
U/S of bridge**

**Bridge opening
from U/S side**

Comments:

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Photo #005

**Immediately
U/S of bridge**

**Upstream
left bank**

Comments:



Photo #006

**Immediately
U/S of bridge**

**Upstream
right bank**

Comments:

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Photo #007

**On/Under
bridge**

**On/Under bridge
looking U/S**

Comments:



Photo #008

**On/Under
bridge**

**On/Under bridge
looking D/S**

Comments:

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Photo #009

**On/Under
bridge**

**On U/S side bridge
facing 90°⊥ to face**

Comments:



Photo #010

Substructure

**Representative
pier/bent**

Comments:

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Photo #011

Substructure

Left abutment

Comments:



Photo #012

Substructure

Right abutment

Comments:

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Photo #015

**Immediately
D/S of bridge**

**Bridge opening
from D/S side**

Comments:



Photo #016

**1 channel-width
D/S of bridge**

**Downstream
looking U/S at
bridge**

Comments:

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Photo #017

**1 channel-width
D/S of bridge**

**Downstream
left bank**

Comments:



Photo #018

**1 channel-width
D/S of bridge**

**Downstream
right bank**

Comments:

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Photo #019

Soil material

Bed material

Comments:



Photo #020

Soil material

Bank material

Comments:

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Photo #021

Other

Comments:
Woody debris
visible on U/S of
EB I-90



Photo #022

Other

Comments:
Standing between
EB and WB I-90

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Photo #023

Other

Comments:
Distressed
countermeasure
visible on D/S side
of pier 2 of the WB
bridge



Photo #024

Other

Comments:
Countermeasure
visible on pier 3 of
WB bridge

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Photo #025

Other

Comments:
RR and HWY205
bridges D/S of I90
bridges