



Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

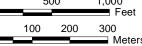
Field Verified 2013

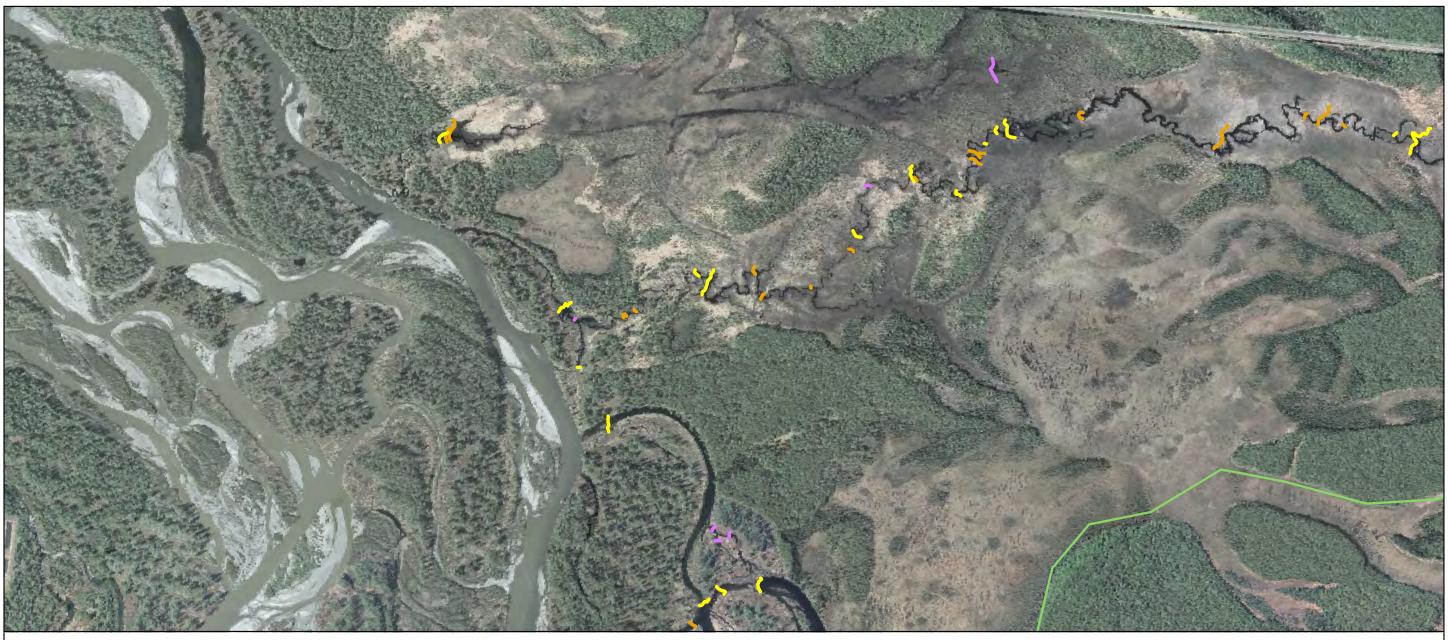
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-1



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



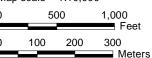
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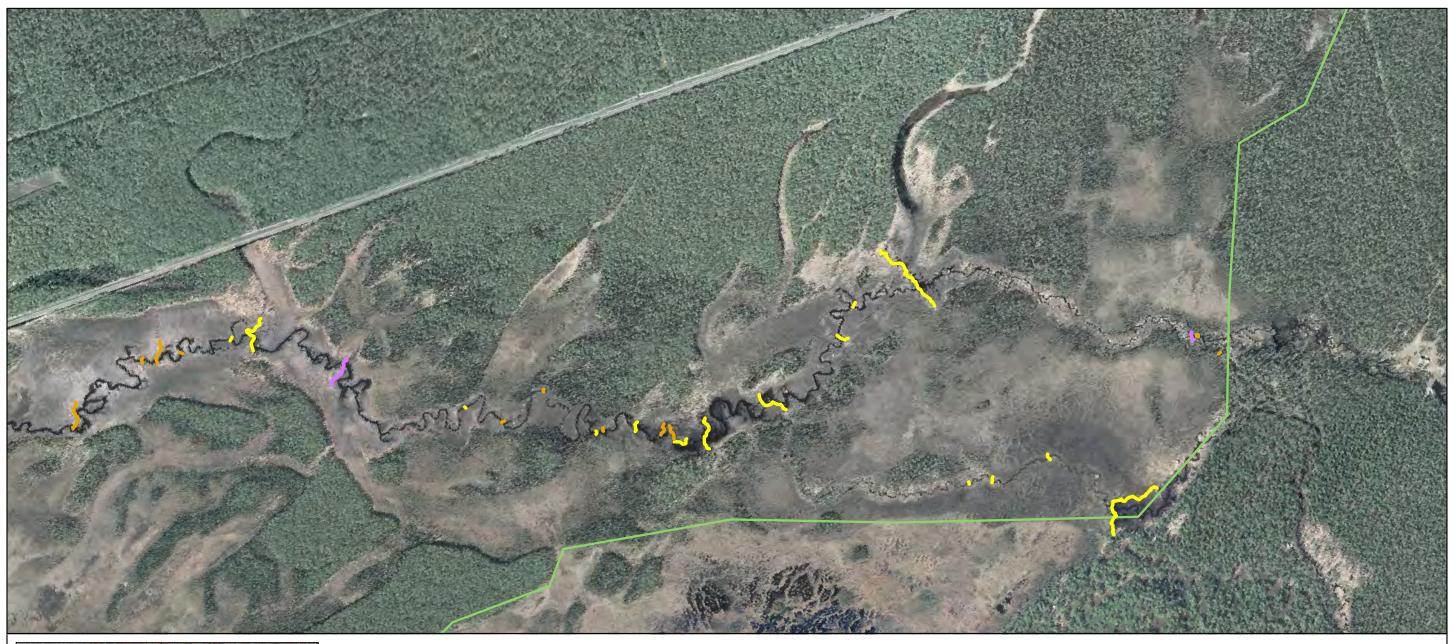
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
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review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-2



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

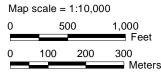


Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-3









Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

Field Verified 2013

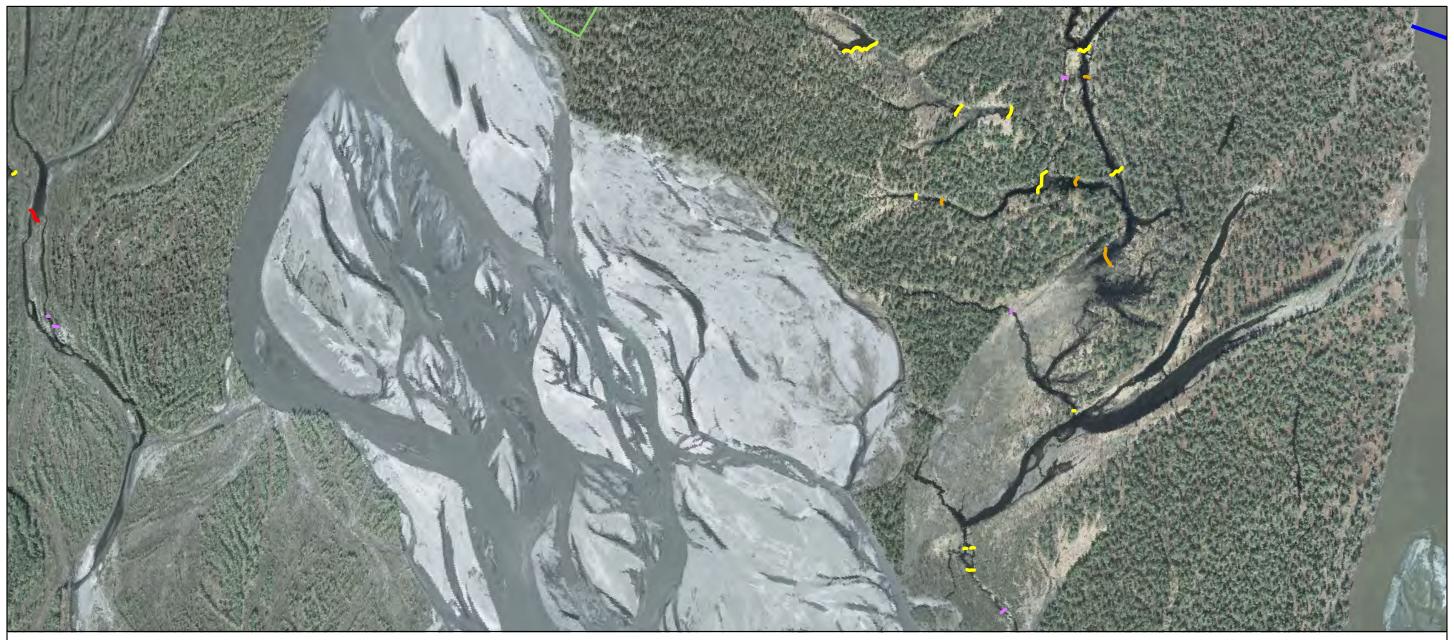
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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-4



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



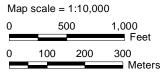
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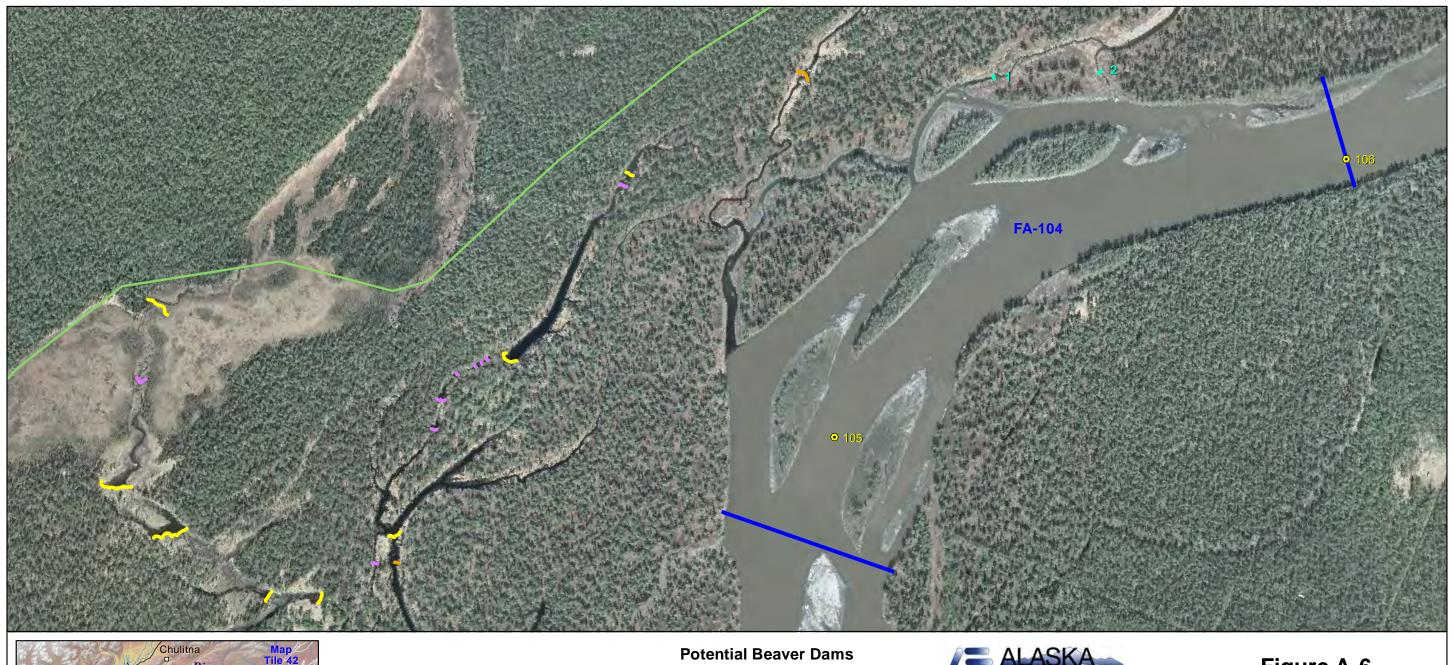
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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
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potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-5









Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Structure Status from Imagery







Undetermined



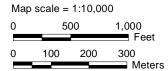
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Field Verified 2013

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_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-6









Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

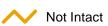
Riverine Physiography Area

Proposed Project Area

Structure Status from Imagery







Undetermined





Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

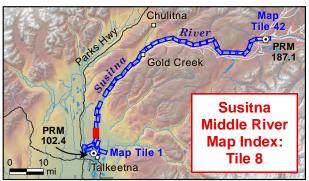
Figure A-7



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



Field Verified 2013

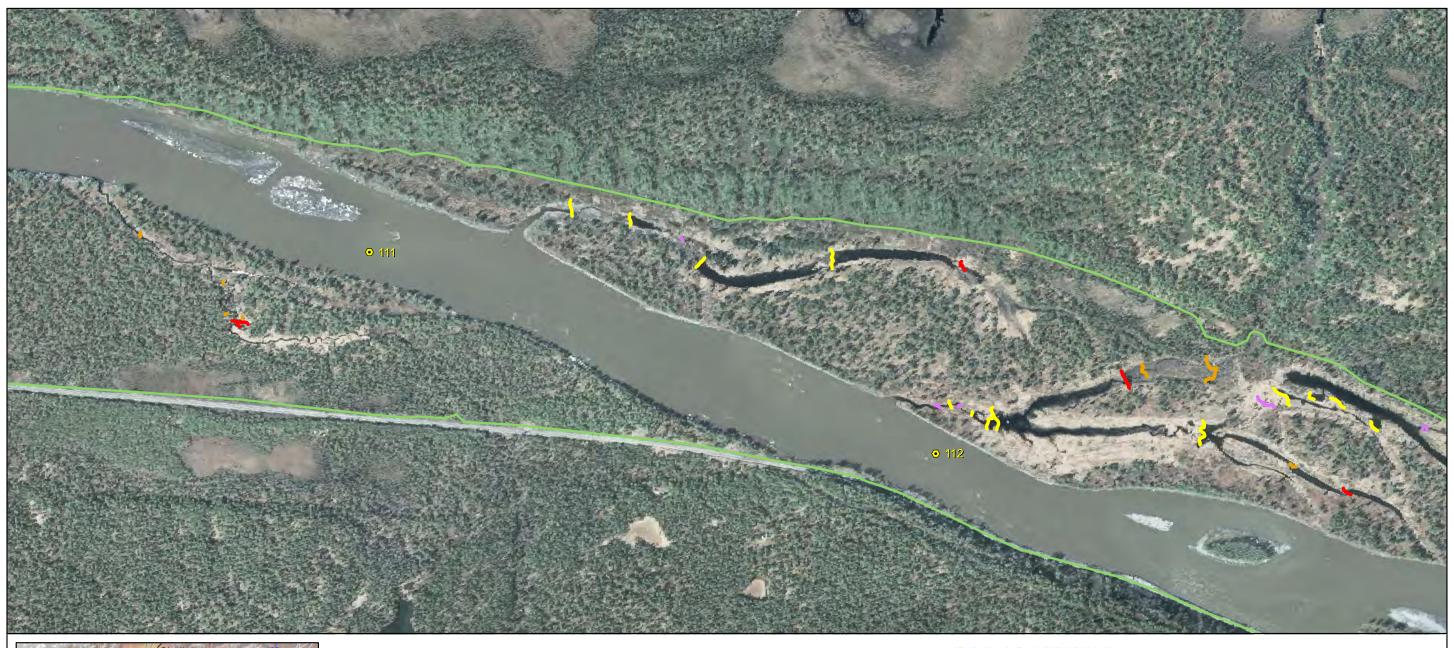
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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

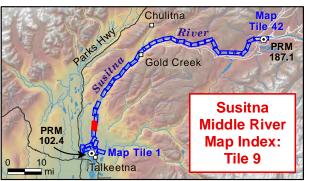
Figure A-8



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



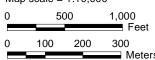
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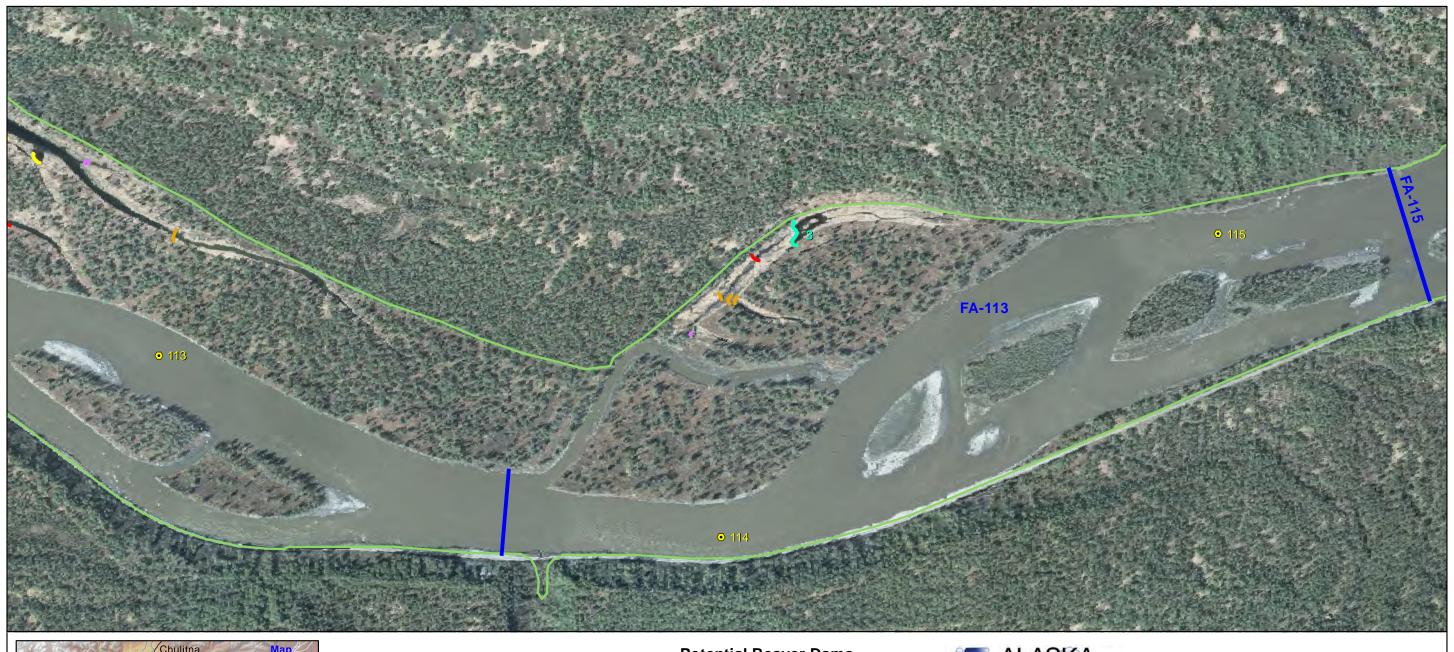
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_Dams_v03 is ABR's comprehensive
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potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

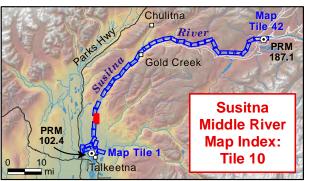
Figure A-9



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact

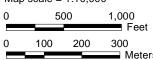
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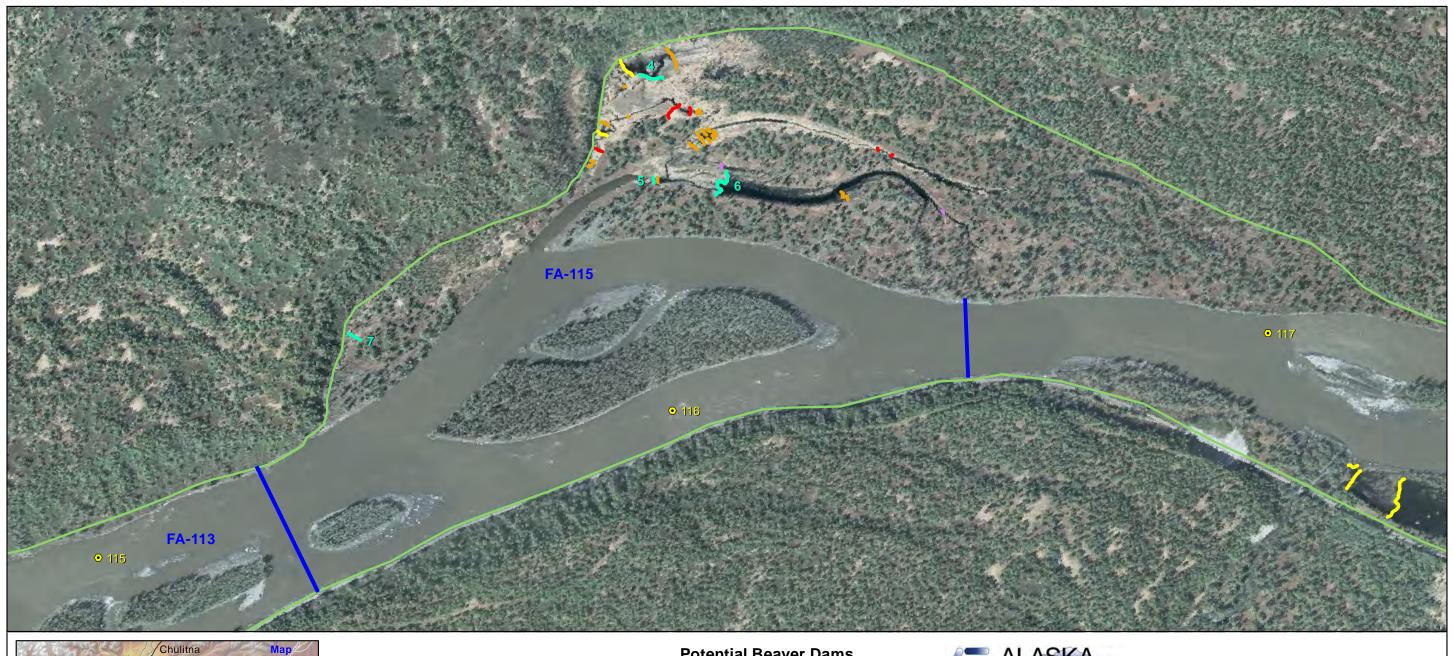
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potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

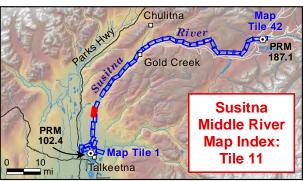
Figure A-10



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



Field Verified 2013

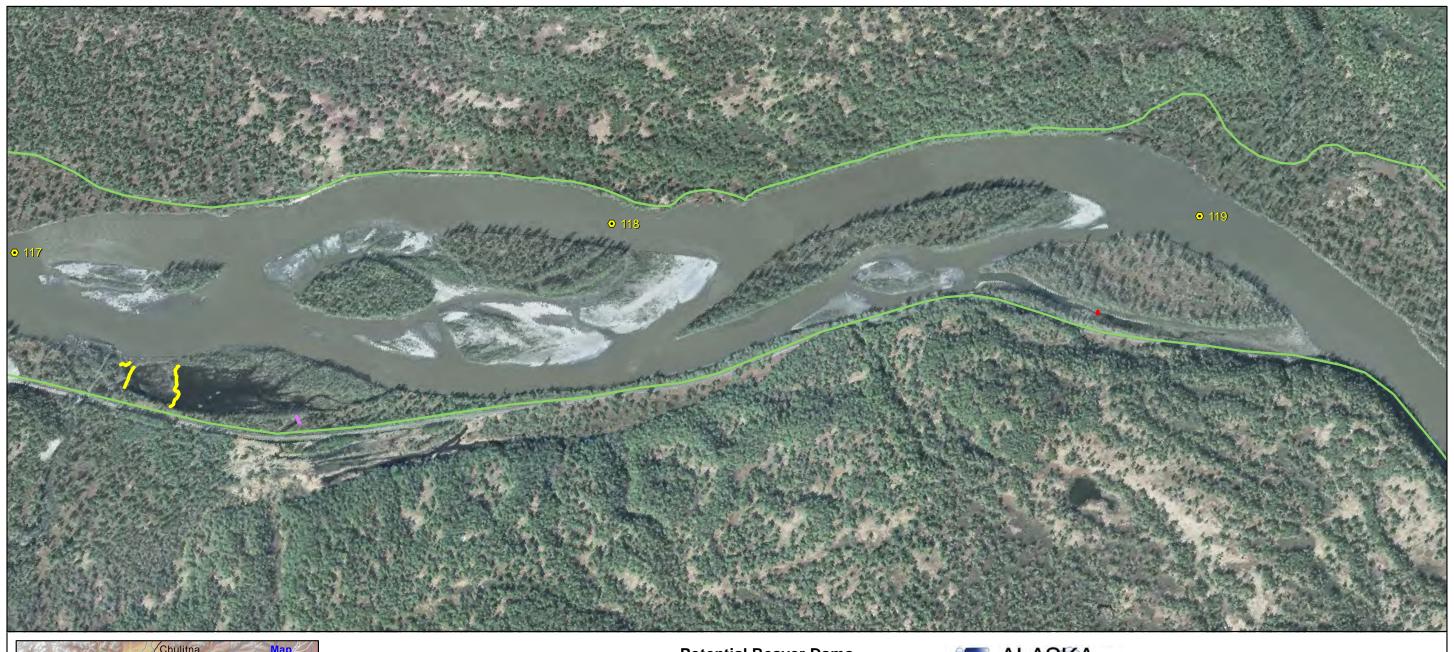
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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-11



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



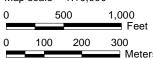
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_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-12



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



Field Verified 2013

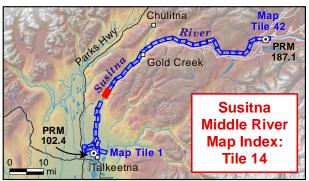
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_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-13



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-14



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



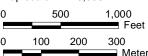
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_Dams_v03 is ABR's comprehensive
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-15



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact



Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-16



Map scale = 1:10,000

Projection: AK State Plane Zone 4 NAD 1983 Date Saved: 10/18/2015 Map Author: ABR, Inc. - Allison Zusi-Cobb File: SuWa_MidR_BeaverDams_SIR_v01.mxd

100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



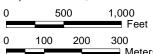
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_Dams_v03 is ABR's comprehensive
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

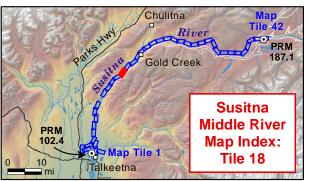
Figure A-17



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



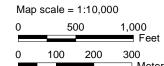
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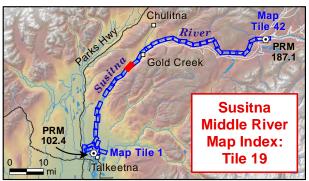
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_Dams_v03 is ABR's comprehensive
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-18









Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



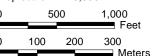
Field Verified 2013

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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-19



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



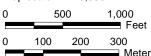
Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
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potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-20



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-21



Map scale = 1:10,000 100 200 300