



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





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-22



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:
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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

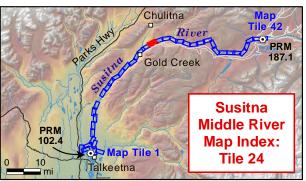
Figure A-23



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



Field Verified 2013

Data Sources:
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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-24



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



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-25



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

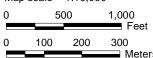
Field Verified 2013

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-26



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

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-27



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



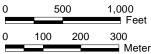
Field Verified 2013

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-28



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

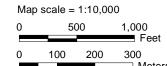


Field Verified 2013

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-29









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
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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

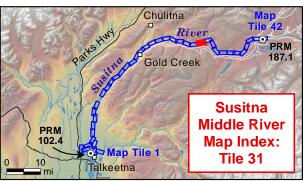
Figure A-30



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

Field Verified 2013

Data Sources:
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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-31



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-32

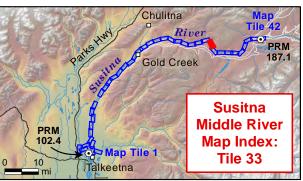


Map scale = 1:10,000

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



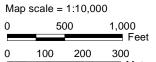
// Not Intact

Field Verified 2013

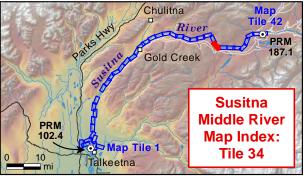
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb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

Figure A-33









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

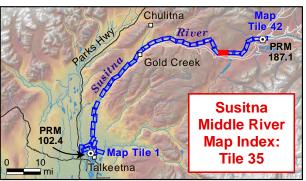
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb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

Figure A-34



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

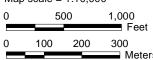
Field Verified 2013

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-35



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



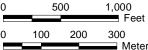
Field Verified 2013

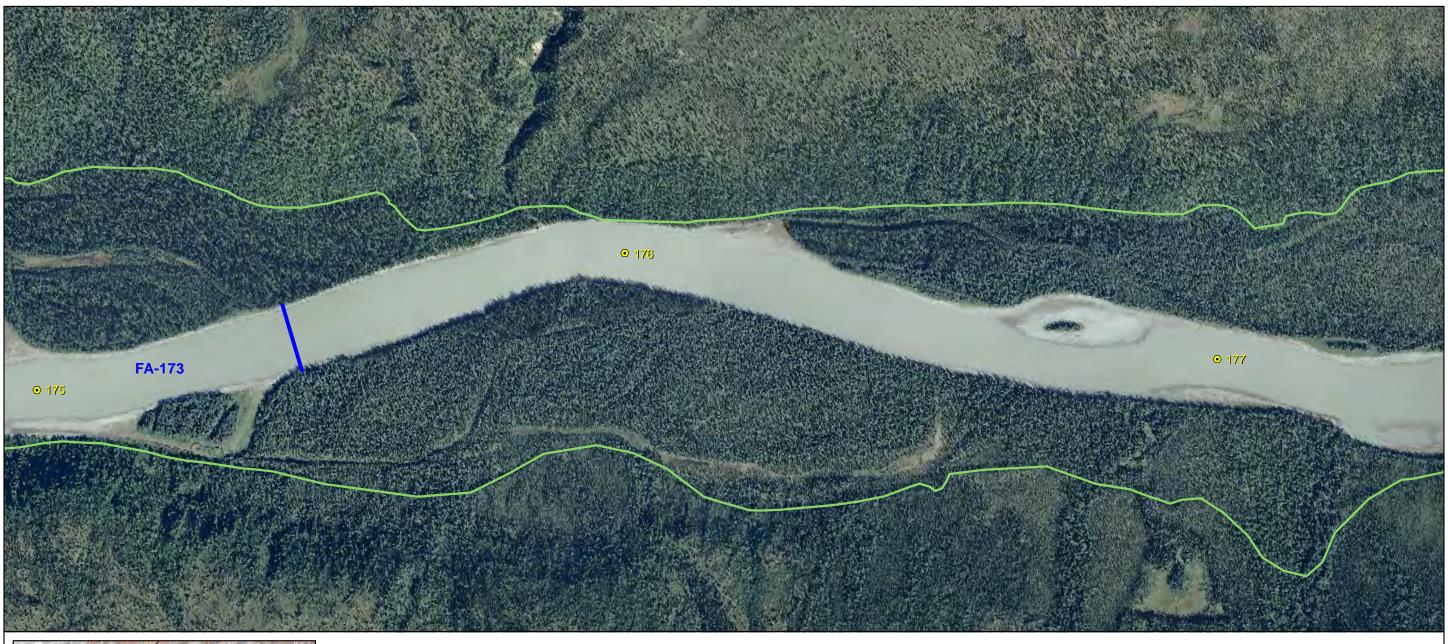
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb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

Figure A-36



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

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-37



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



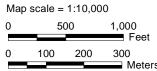
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Field Verified 2013

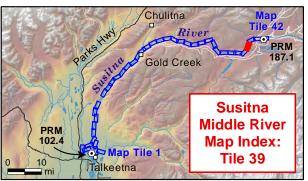
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Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor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

Figure A-38









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



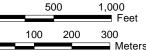
Field Verified 2013

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-39



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

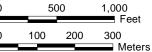
Field Verified 2013

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-40



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

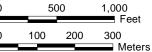
Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_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

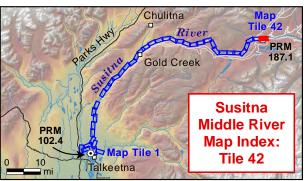
Figure A-41



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

Data Sources:
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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-42



Map scale = 1:10,000 100 200 300