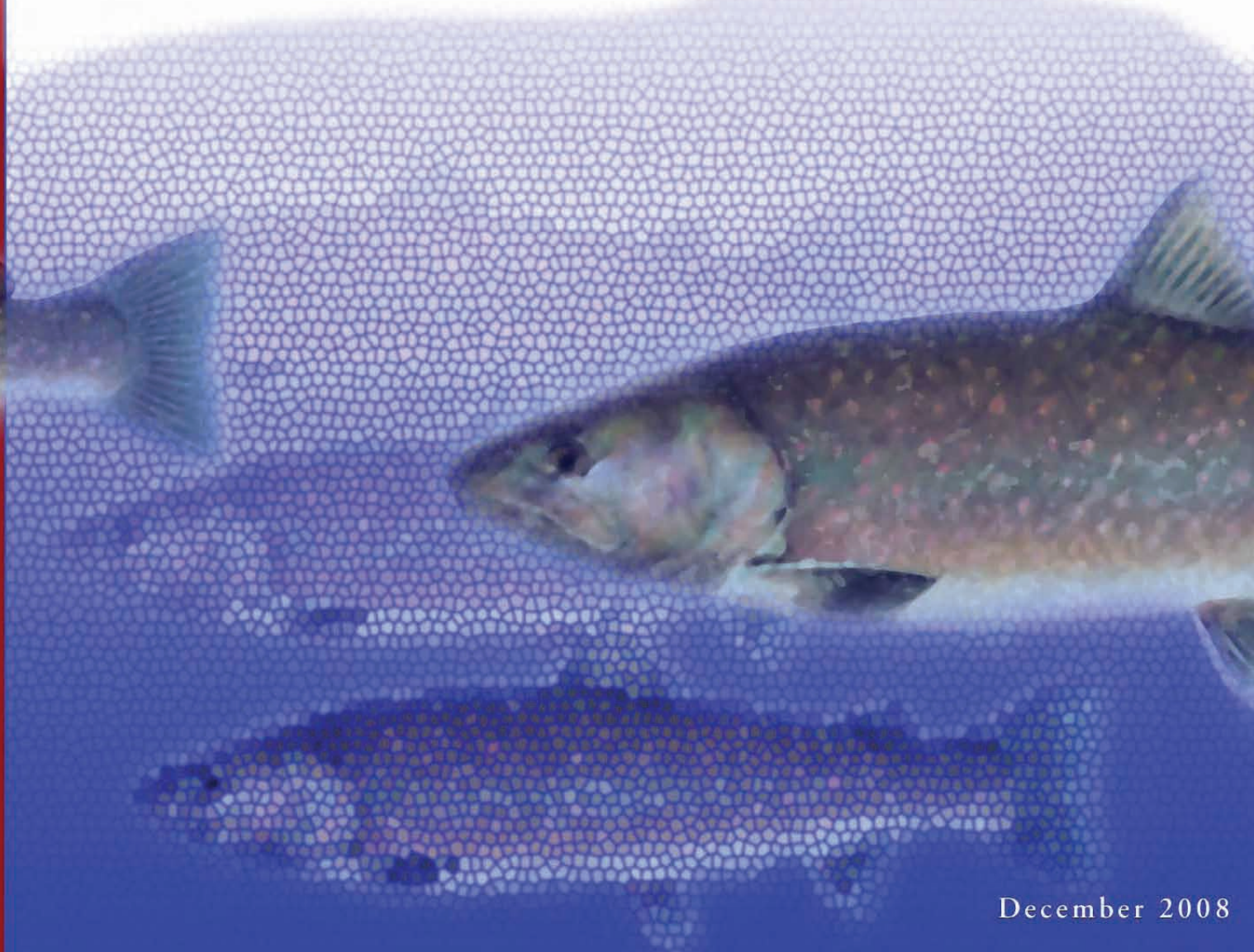
CONFEDERATED SALISH AND KOOTENAI TRIBES

Jocko River Master Plan

A guide to ecological restoration activities in the lower main stem Jocko River corridor

Appendix D: Plan-View Figures

Prepared by the CSKT Fish, Wildlife, Conservation, and Wildland Recreation Program



December 2008

Jocko River Master Plan: A Guide to Ecological Restoration Activities in the Lower Mainstem Jocko River Corridor: Appendix D

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Appendix D: Plan-View Figures

D-1 Encroachment Features
D-2 Ecological Floodplain and Hydric Soils
D-3 Stationing, Stream Types, and Reference Reaches
D-4 1937 and 2002 Aerial Photos
D-5 Historic Channels

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Appendix D-1: Encroachment Features

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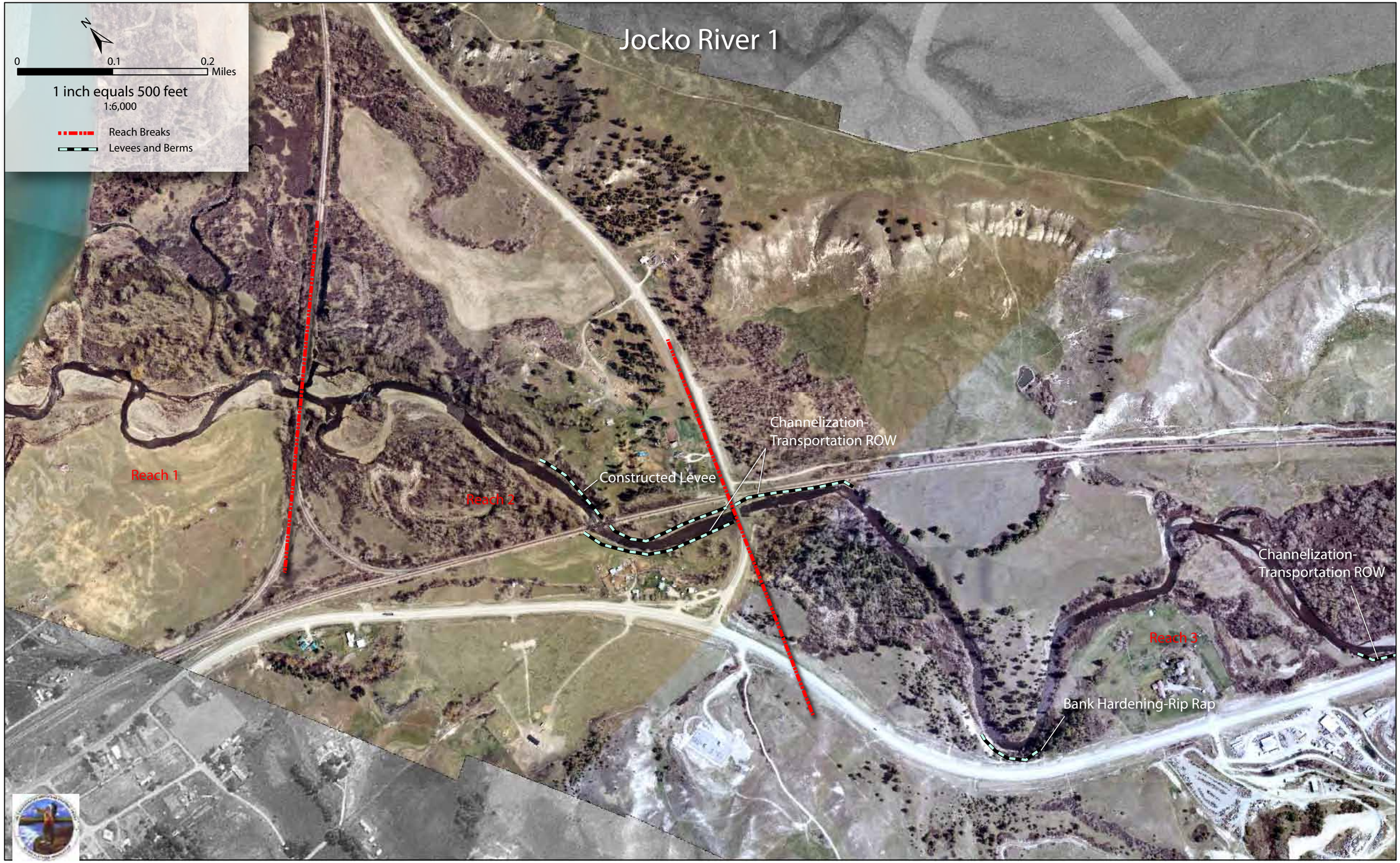
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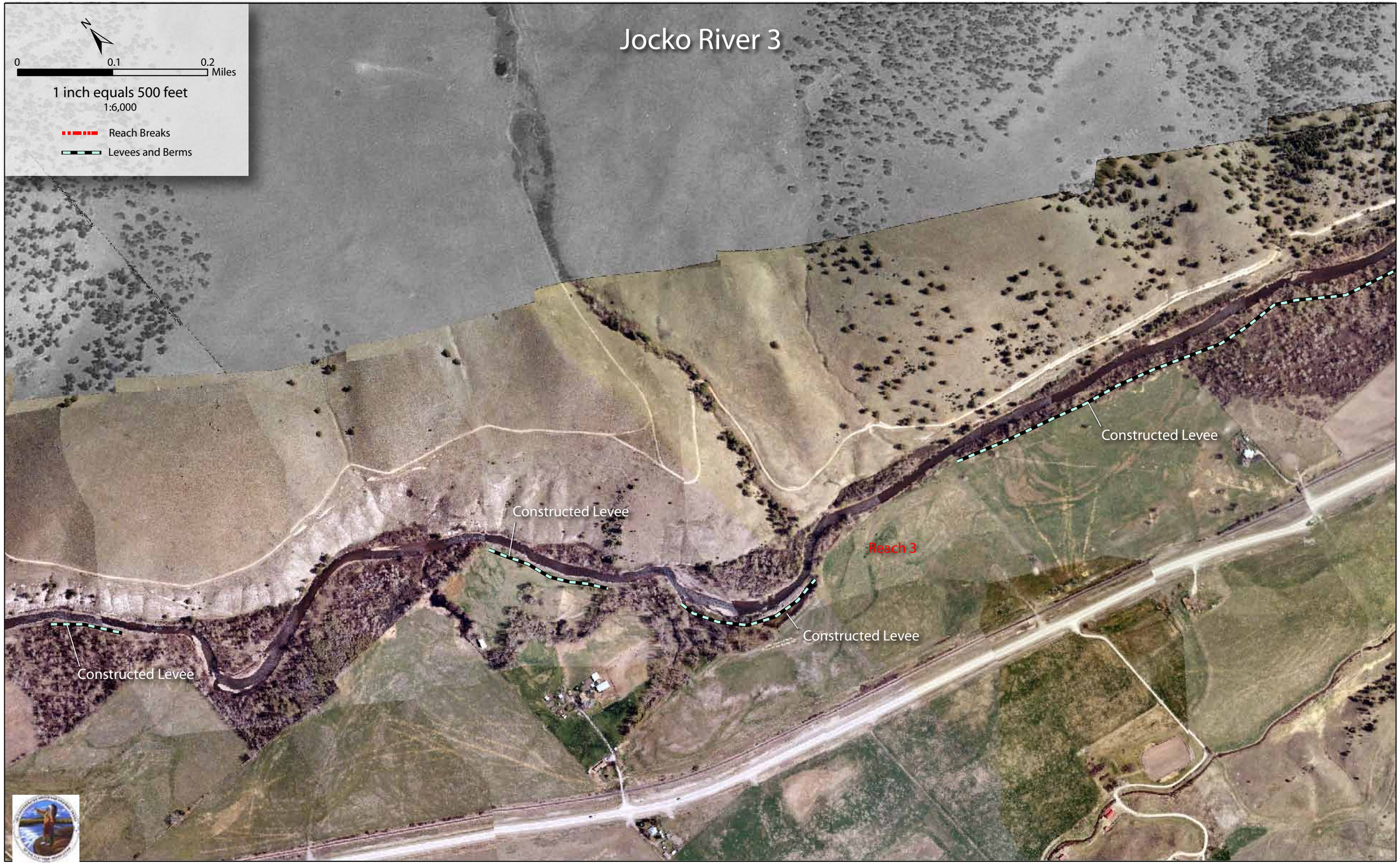
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Reach 1
Reach 2
Reach 3
Constructed Levee
Channelization-
Transportation ROW
Channelization-
Transportation ROW
Bank Hardening-Rip Rap

Jocko River 2
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Constructed Levee
Constructed Levee
Constructed Levee
Reach 3
Channelization-
Transportation ROW
Channelization-
Transportation ROW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0
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0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Constructed Levee
Constructed Levee
Reach 3
Constructed Levee
Constructed Levee

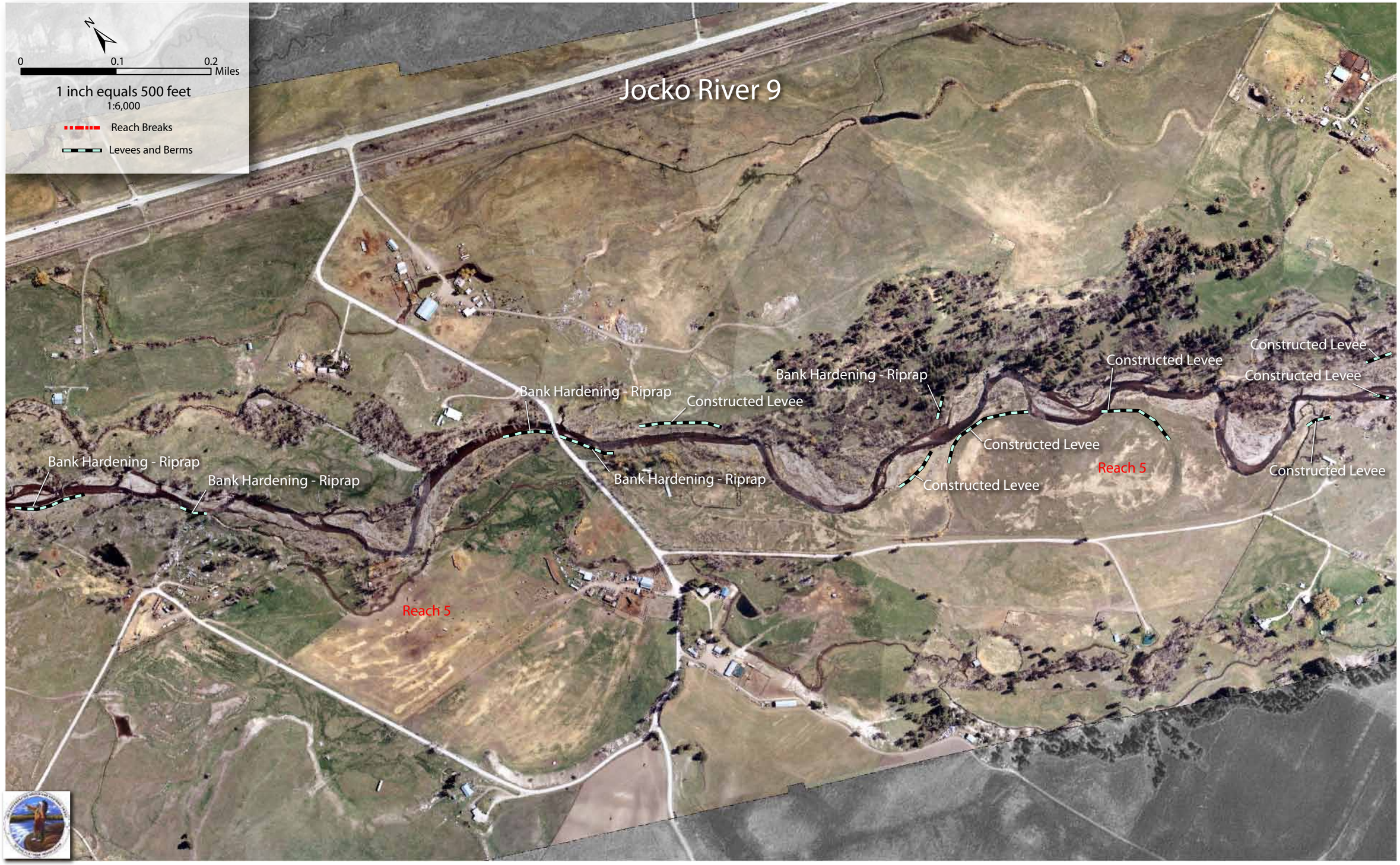
Jocko River 4
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Channelization - Floodpain Encroachment
Reach 3
Bank Hardening - Riprap
Bank Hardening - Riprap
Constructed Levee

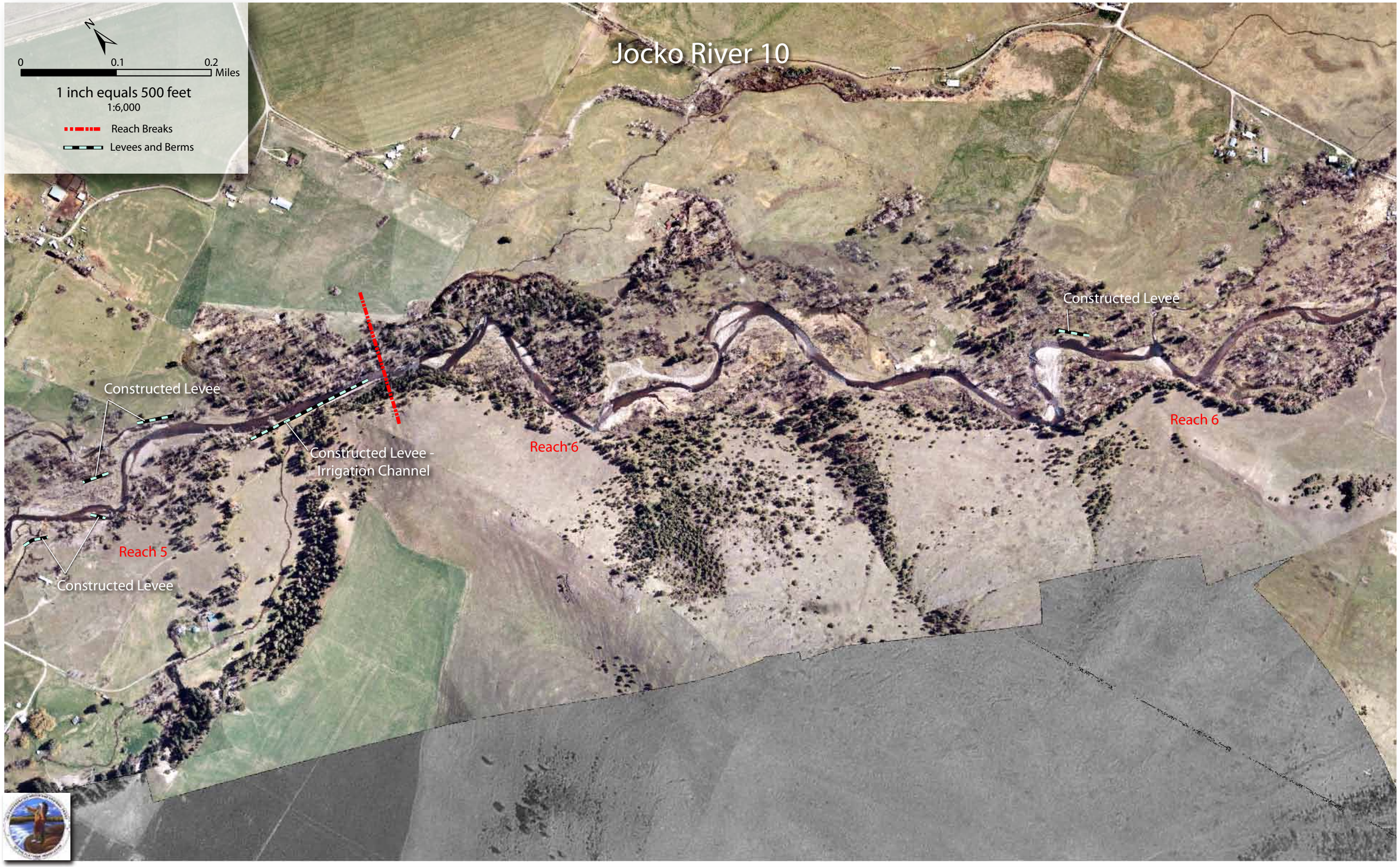
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Jocko River 5
Channelization Floodplain Encroachment
Channelization Floodplain Encroachment
Reach 4
Channelization Transportation ROW
Reach 3
Channelization Irrigation ROW
Channelization Floodplain Encroachment

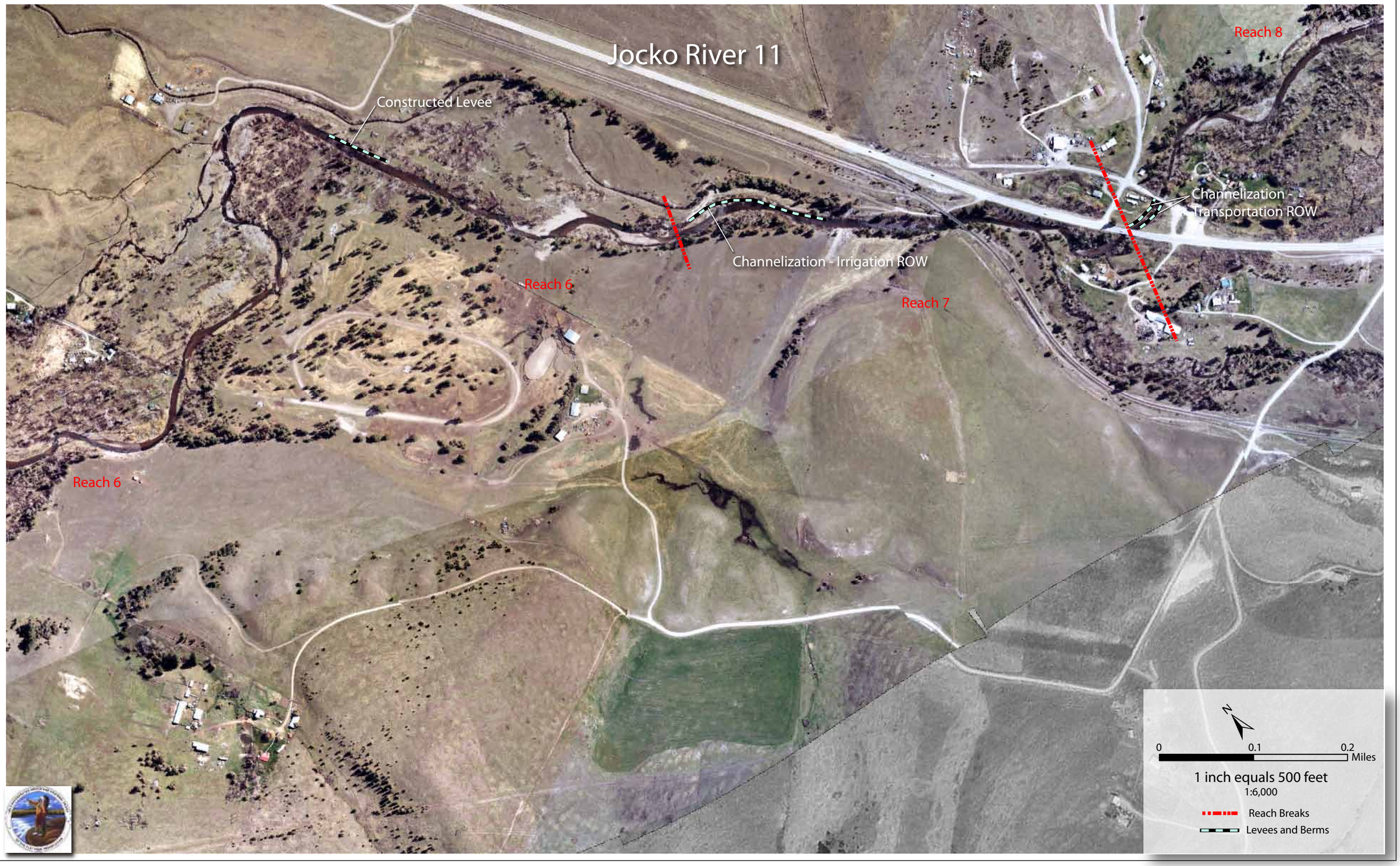
Jocko River 6
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Reach 4
Channelization - Transportation ROW
Channelization - Floodplain Encroachment
Reach 4
Channelization - Transportation ROW
Channelization - Transportation ROW

Jocko River 7
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Channelization - Transportation ROW
Channelization - Transportation ROW
Channelization - Transportation ROW
Channelization - Transportation ROW
Channelization - Transportation ROW
Reach 4
Channelization - Transportation ROW
Constructed Levee
Constructed Levee
Reach 5

Jocko River 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Bank Hardening - Riprap
Bank Hardening - Riprap
Bank Hardening - Cars
Constructed Levee
Reach 5


N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Jocko River 9
Bank Hardening - Riprap
Bank Hardening - Riprap
Bank Hardening - Riprap
Bank Hardening - Riprap
Bank Hardening - Riprap
Constructed Levee
Constructed Levee
Constructed Levee
Constructed Levee
Constructed Levee
Constructed Levee
Constructed Levee
Reach 5
Reach 5


Jocko River 10
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms
Constructed Levee
Constructed Levee
Constructed Levee -
Irrigation Channel
Reach 6
Reach 6
Reach 5
Constructed Levee


Jocko River 11
Reach 8
Constructed Levee
Channelization - Transportation ROW
Channelization - Irrigation ROW
Reach 6
Reach 7
Reach 6
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms

Jocko River 12
Constructed Levee
Reach 8
Constructed Levee
Constructed Levee
Reach 8
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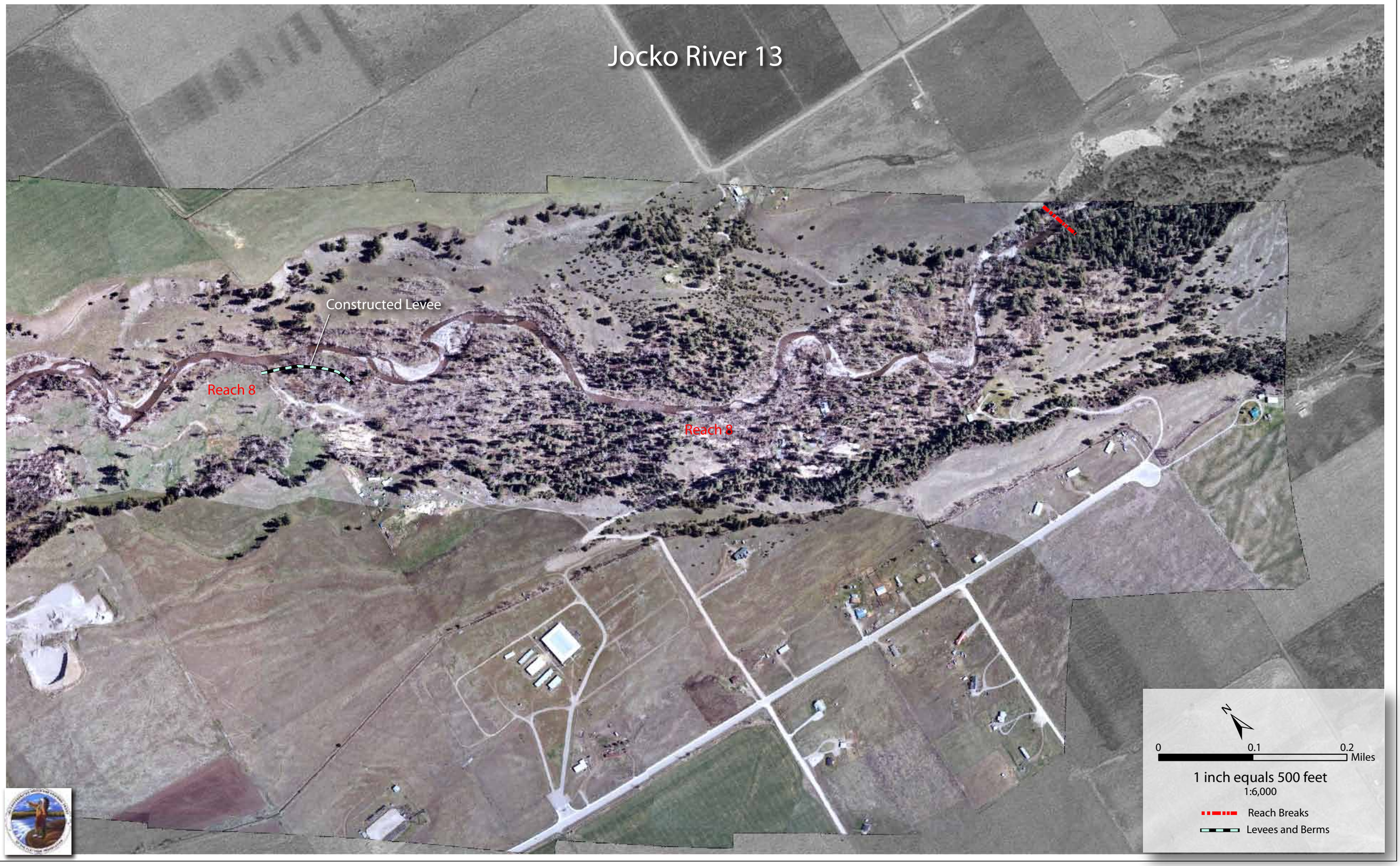
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms


Jocko River 13
Constructed Levee
Reach 8
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Levees and Berms

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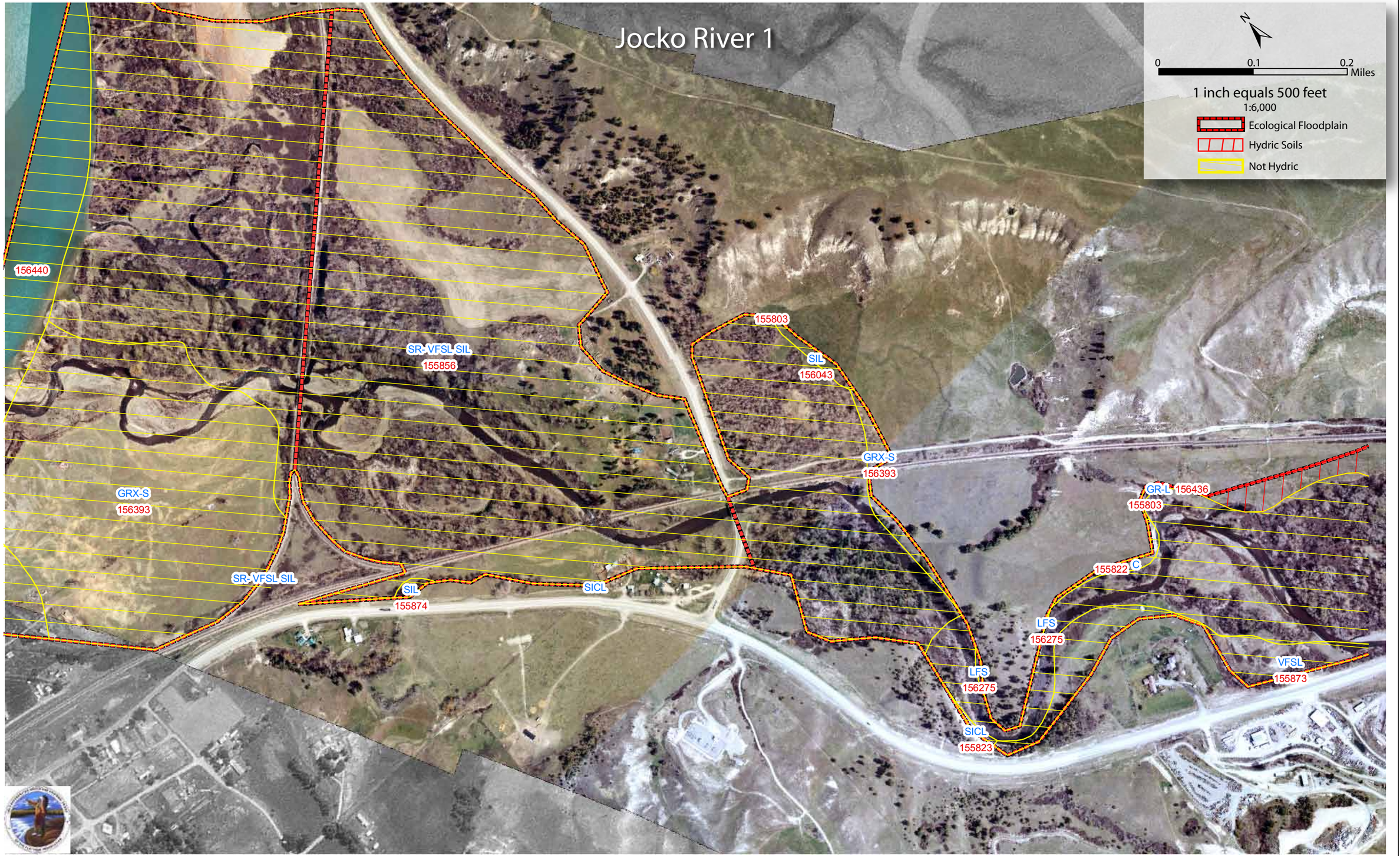
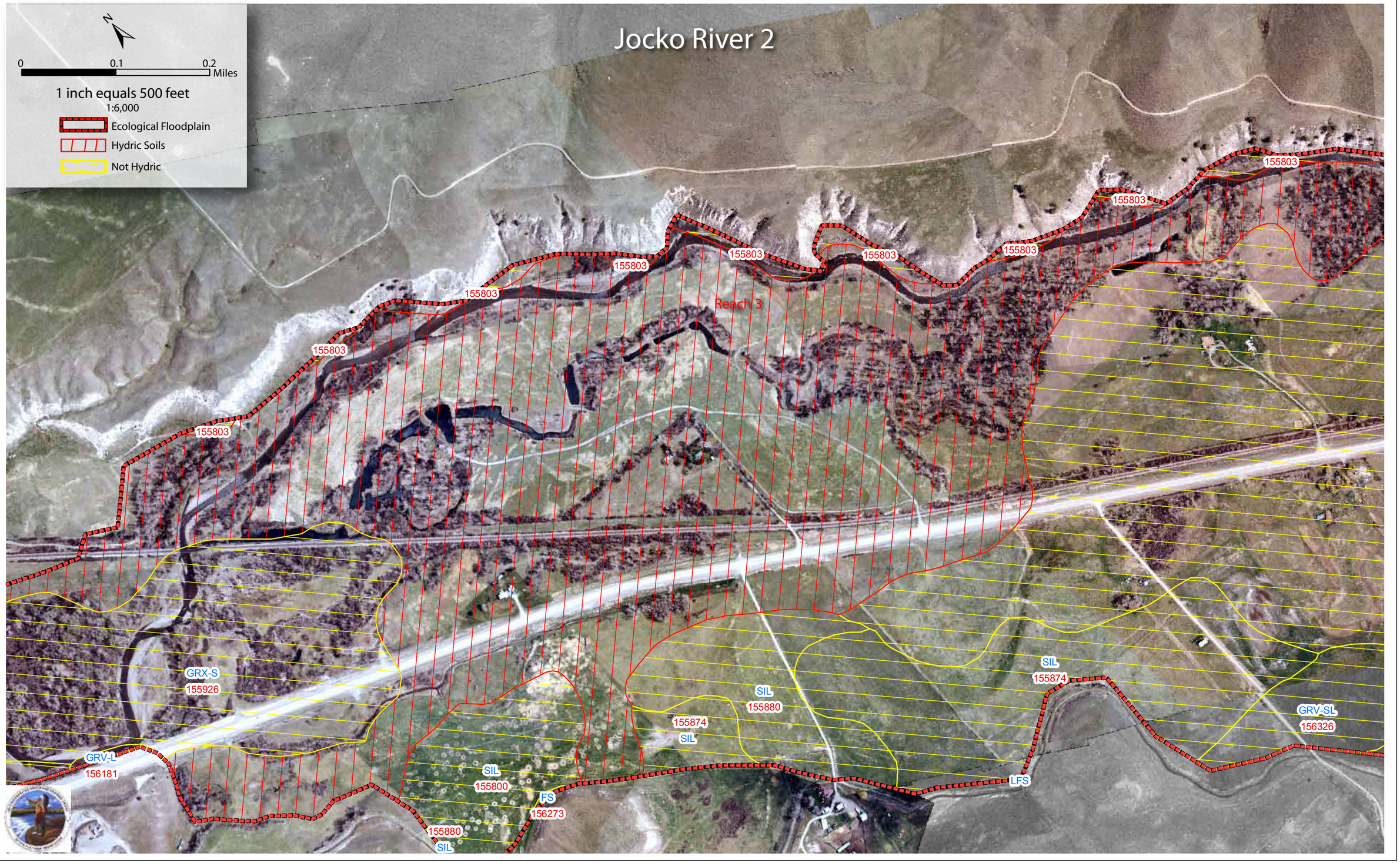
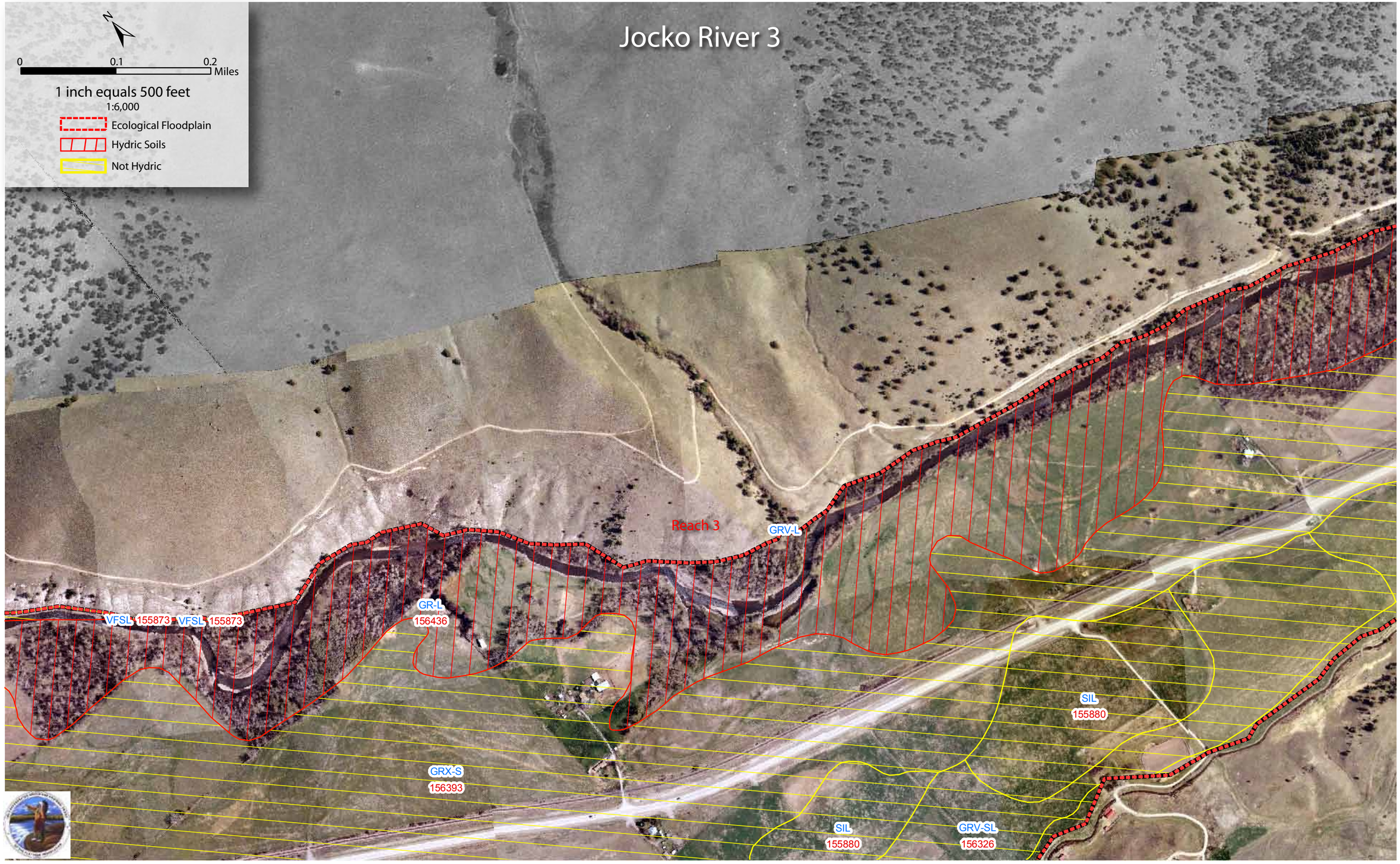
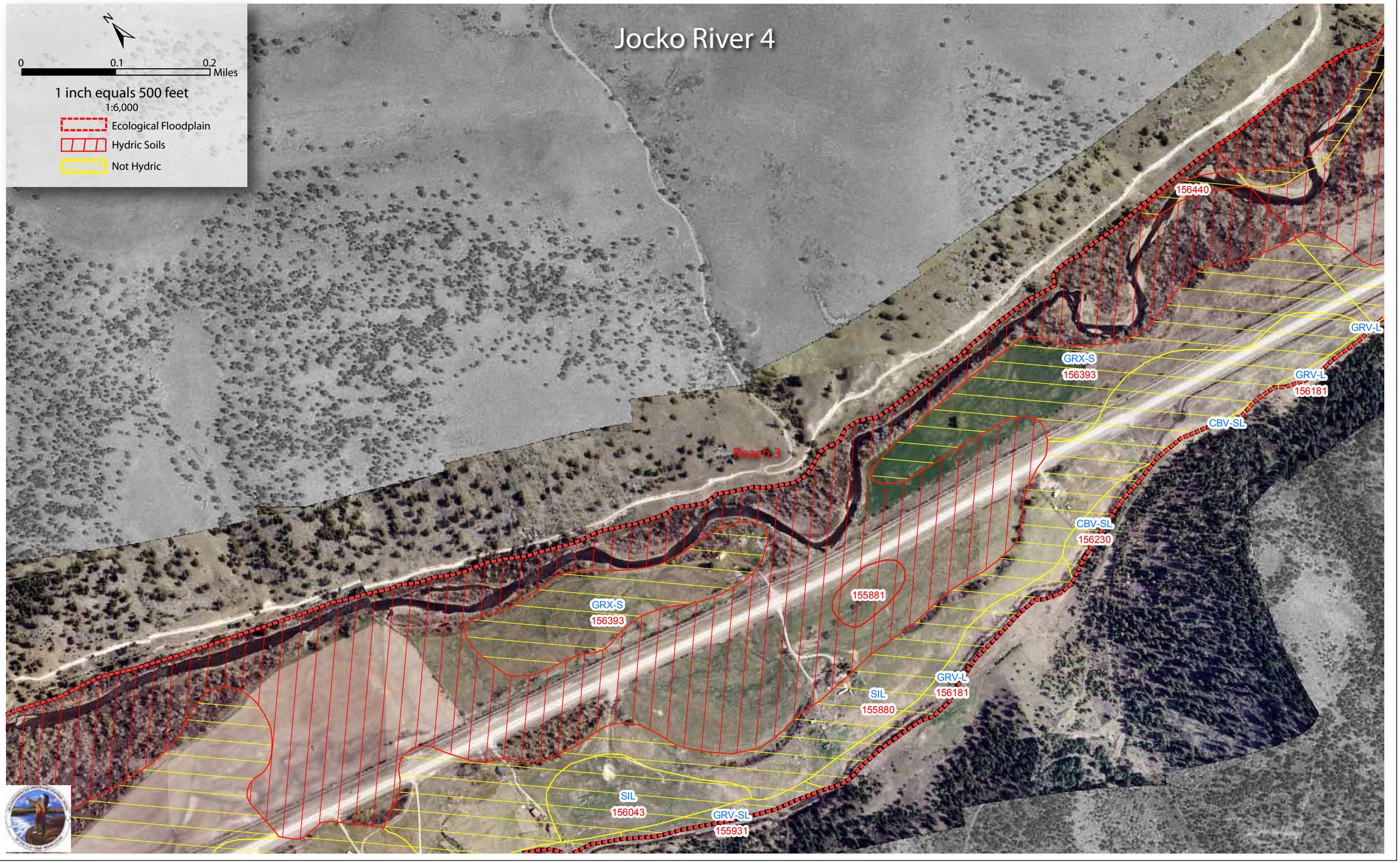
Appendix D-2: Ecological Floodplain and Hydric Soils


Jocko River 1
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
156440
SR-VFSL SIL
155856
155803
SIL
156043
GRX-S
156393
GRX-S
156393
GR-L 156436
155803
155822 C
SR-VFSL SIL
SIL
155874
SICL
LFS
156275
LFS
156275
VFSL
155873
SICL
155823

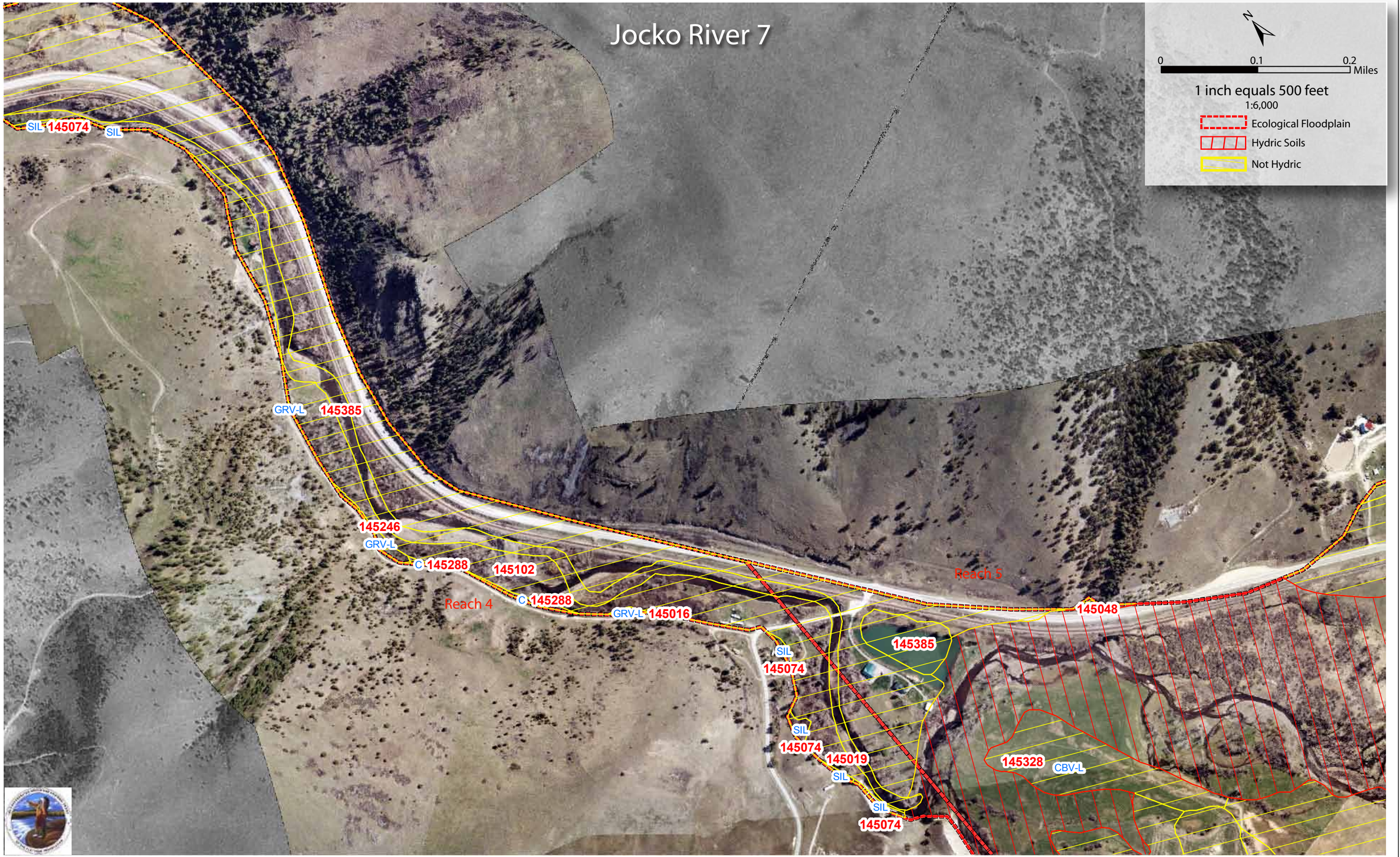

Jocko River 2
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
Reach 3
155803
155803
155803
155803
155803
155803
155803
155803
155803
155803
GRX-S
155926
GRV-L
156181
SIL
155800
FS
156273
155880
SIL
155874
SIL
SIL
155880
SIL
155874
LFS
GRV-SL
156326


Jocko River 3
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
Reach 3
GRV-L
VFSL 155873
VFSL 155873
GR-L
156436
SIL
155880
GRX-S
156393
SIL
155880
GRV-SL
156326


Jocko River 4
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
Reach 3
156440
GRX-S
156393
GRV-L
156181
CBV-SL
CBV-SL
156230
155881
GRX-S
156393
GRV-L
156181
SIL
155880
SIL
156043
GRV-SL
155931

Jocko River 5
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
145048
145048
SIL
145074
SICL
145073
145372
L
145015
145102
145102
145385
145102
145102
145102
145015
145372
L
145328
CBV-L
GRV-L
GRV-L
GRV-L
156181

Jocko River 6
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
145048
145015
145102
145102
145102
145102
145102
GRV-L
GRV-L
GRV-L
145244
145385
GRV-L
145074
SIL
SIL
145074
SIL
145074
SIL
GRV-L
145246
GRV-L


Jocko River 7
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
SIL
145074
SIL
GRV-L
145385
145246
GRV-L
C
145288
145102
C
145288
GRV-L
145016
Reach 4
Reach 5
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SIL
145074
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SIL
145074
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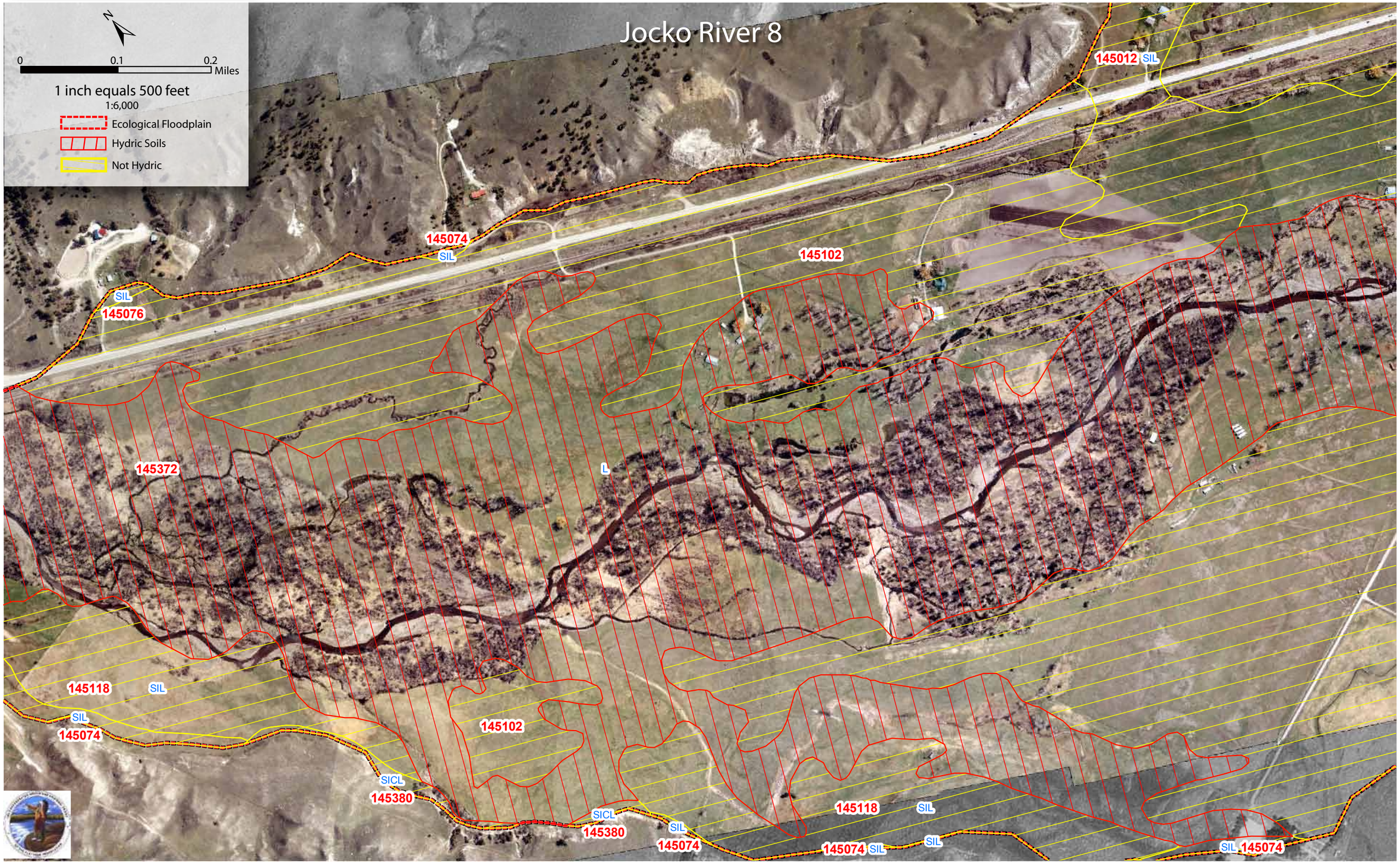
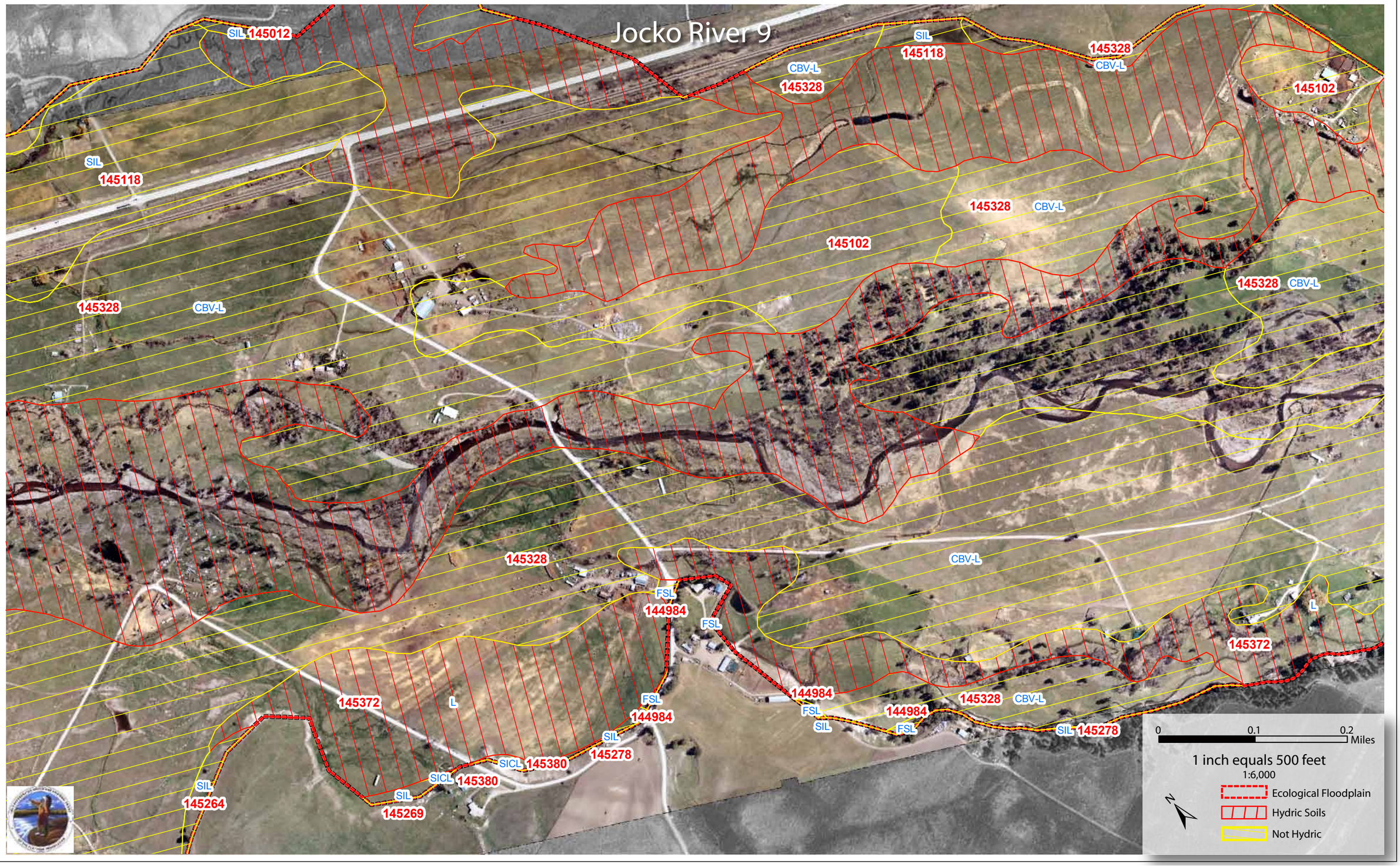
SIL
SIL
145074
145328
CBV-L


Jocko River 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric
145012
SIL
145074
SIL
145102
SIL
145076
145372
L
145118
SIL
SIL
145074
145102
SICL
145380
SICL
145380
SIL
145074
145118
SIL
145074
SIL
SIL
SIL
145074


Jocko River 9
SIL
145012
SIL
145118
CBV-L
145328
145328
CBV-L
145102
SIL
145118
145328
CBV-L
145102
145328
CBV-L
145328
CBV-L
145328
CBV-L
FSL
144984
FSL
144984
FSL
SIL
144984
FSL
145328
CBV-L
SIL
145278
145372
L
145372
L
SIL
145264
SIL
145269
SICL
145380
SICL
145380
SIL
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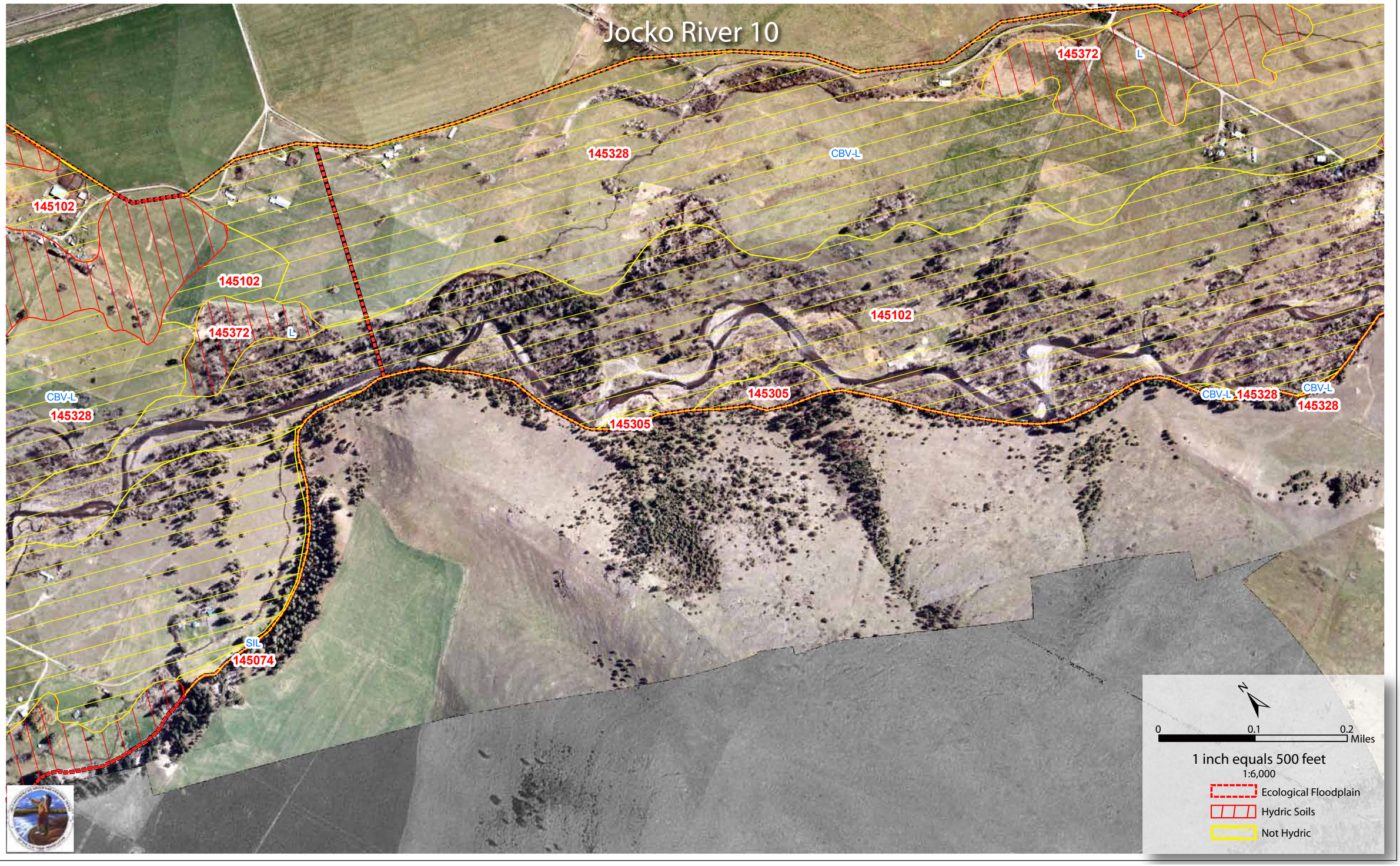
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric


Jocko River 10
145372
L
145328
CBV-L
145102
145102
145372
L
145102
CBV-L
145328
145305
145305
CBV-L
145328
CBV-L
145328
SIL
145074
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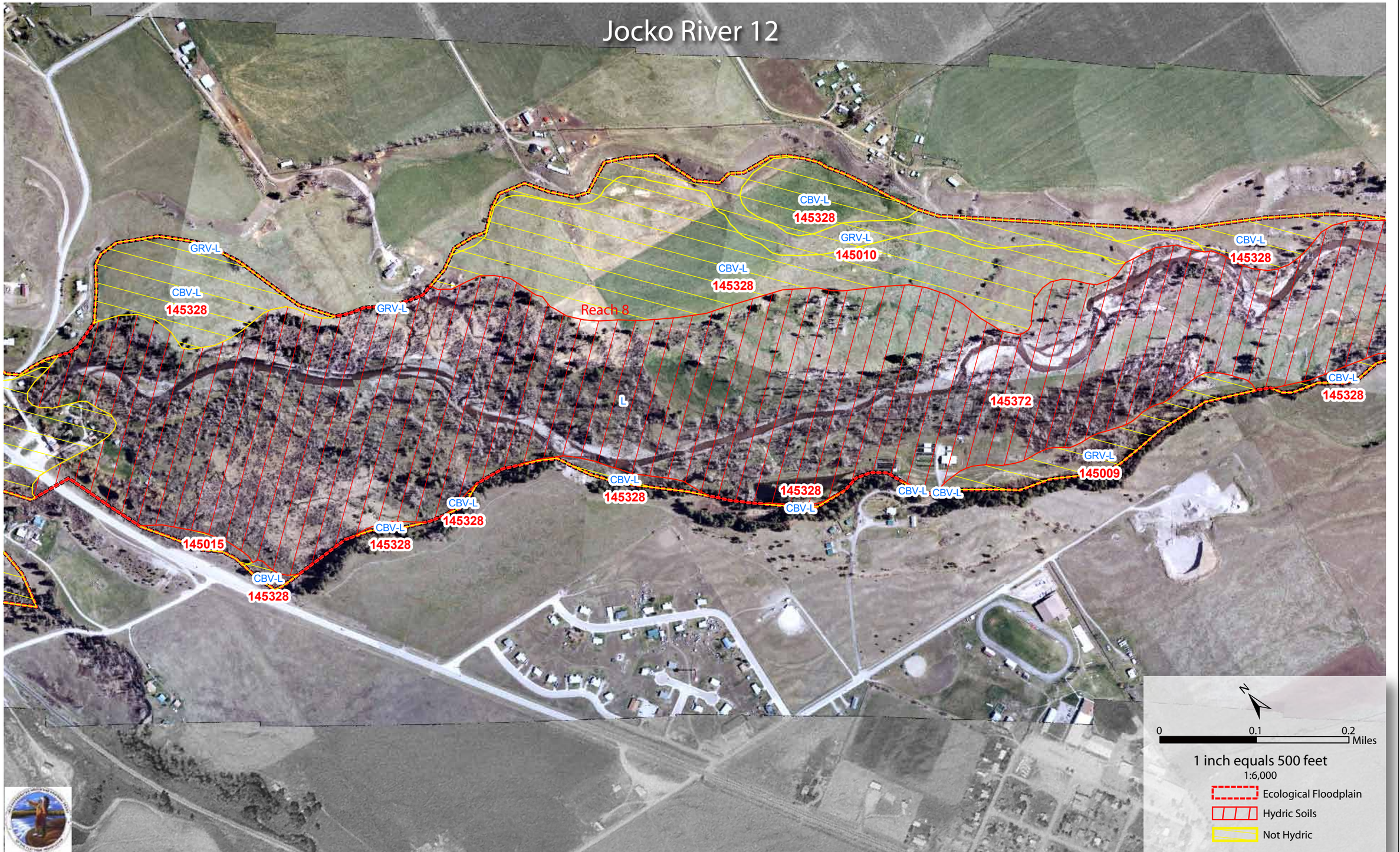
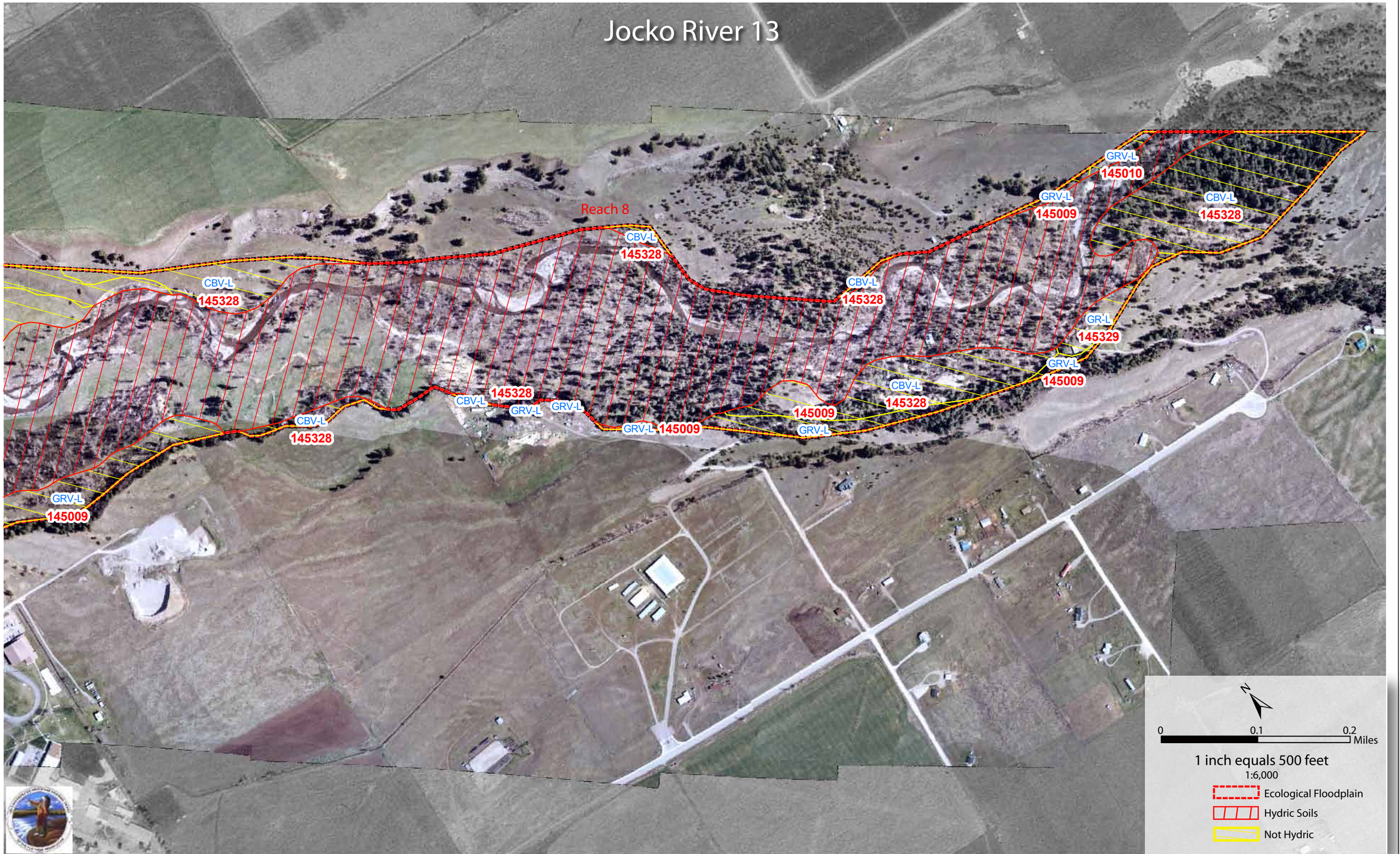
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric

Jocko River 11


Jocko River 12
GRV-L
CBV-L
145328
GRV-L
145010
CBV-L
145328
CBV-L
145328
GRV-L
Reach 8
L
145372
CBV-L
145328
GRV-L
145009
CBV-L
145328
CBV-L
145328
CBV-L
CBV-L
CBV-L
145328
CBV-L
145328
145015
CBV-L
145328
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Ecological Floodplain
Hydric Soils
Not Hydric

Jocko River 13



Appendix D-3: Stationing, Stream Types, and Reference Reaches

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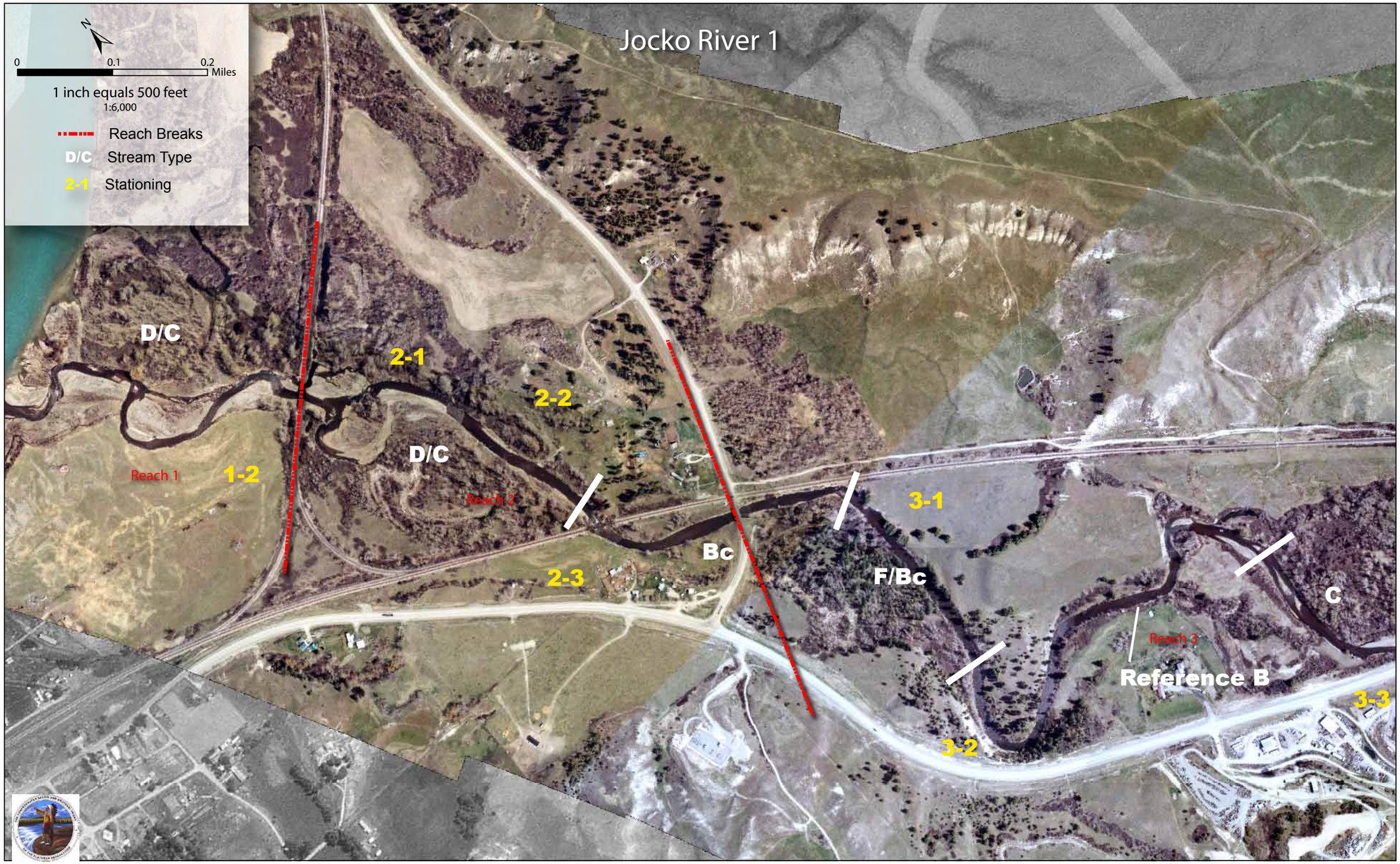
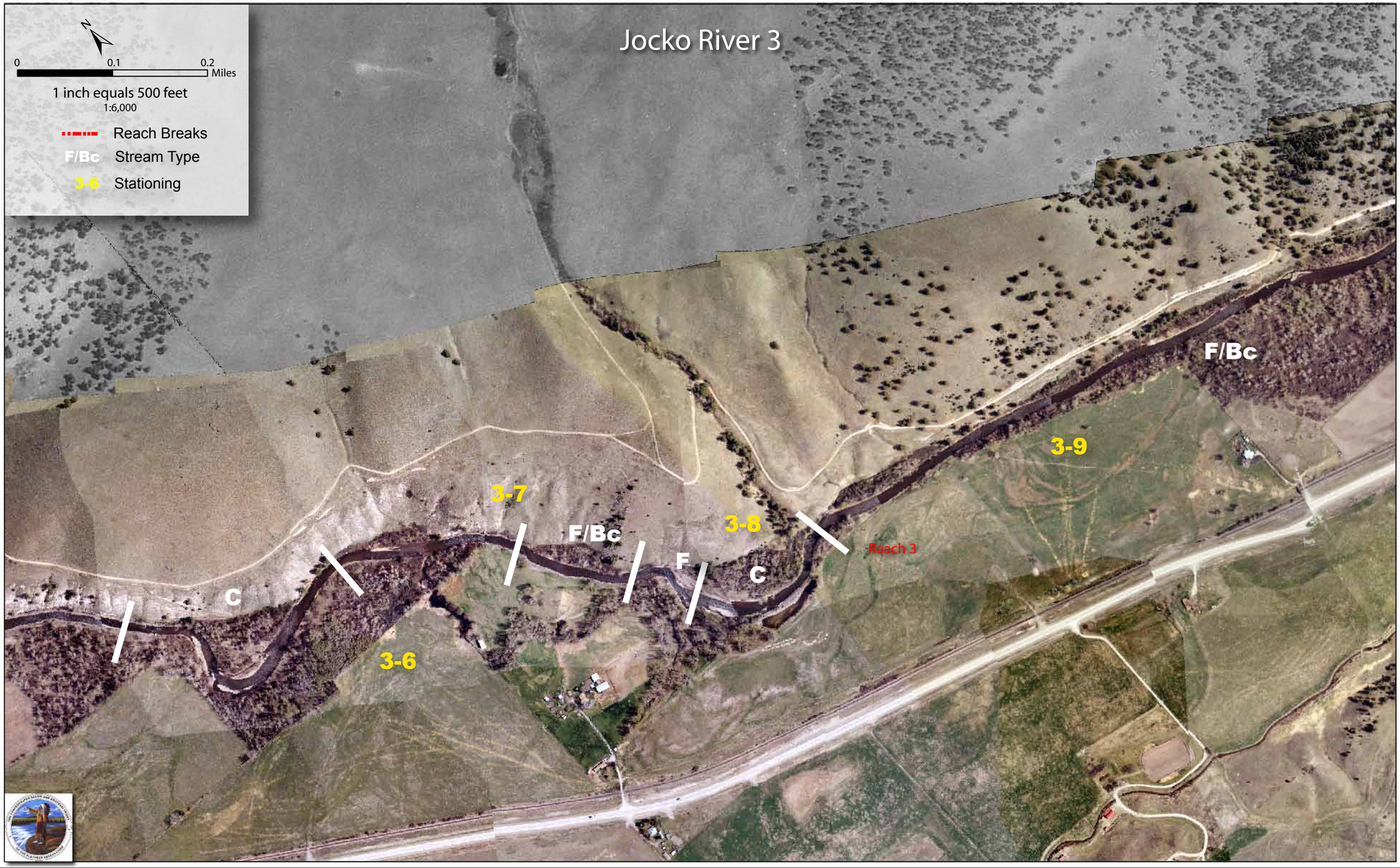
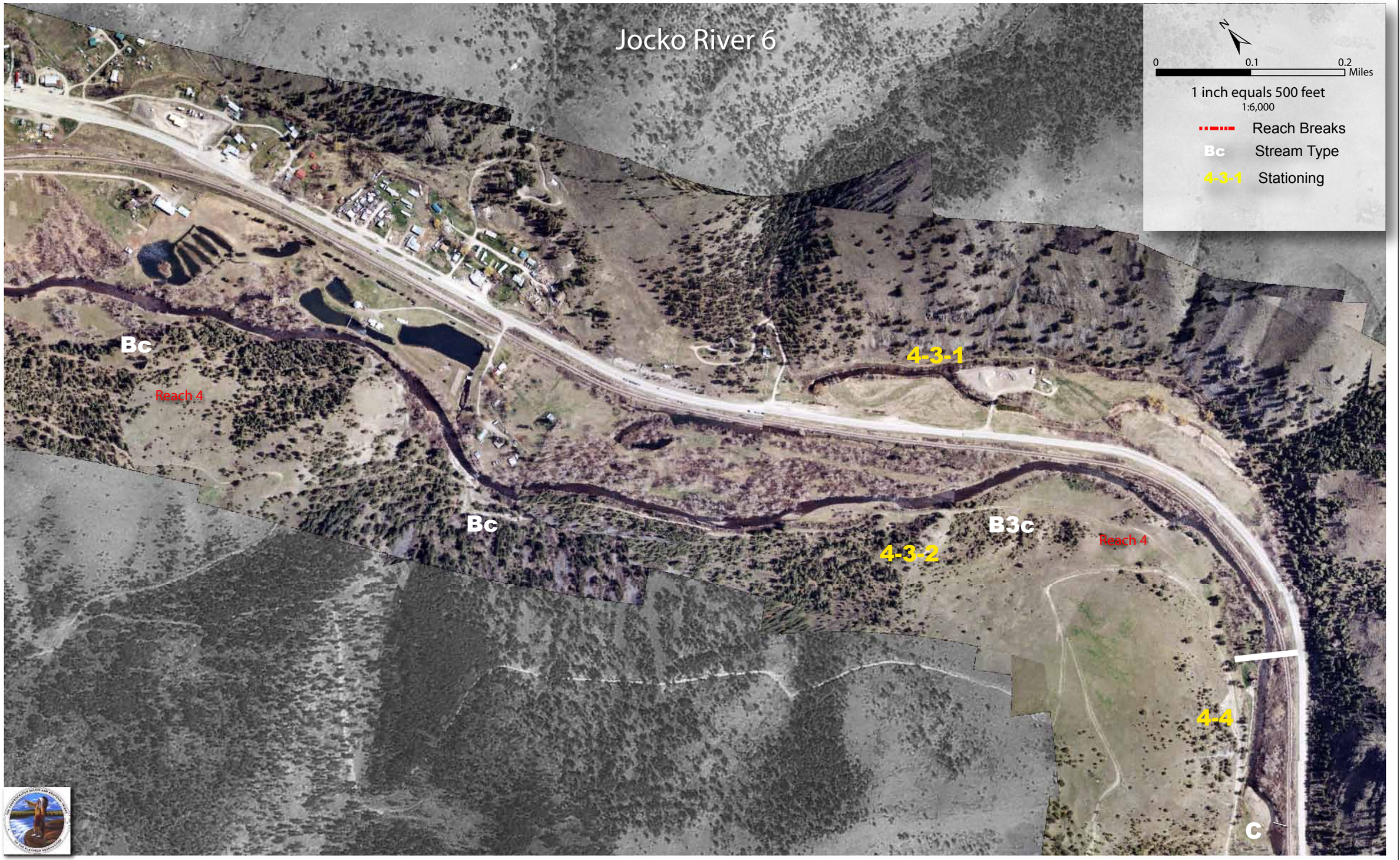

Jocko River 1
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
D/C Stream Type
2-1 Stationing
D/C
2-1
2-2
D/C
Reach 1
1-2
Reach 2
3-1
Bc
2-3
F/Bc
C
Reach 3
Reference B
3-3
3-2

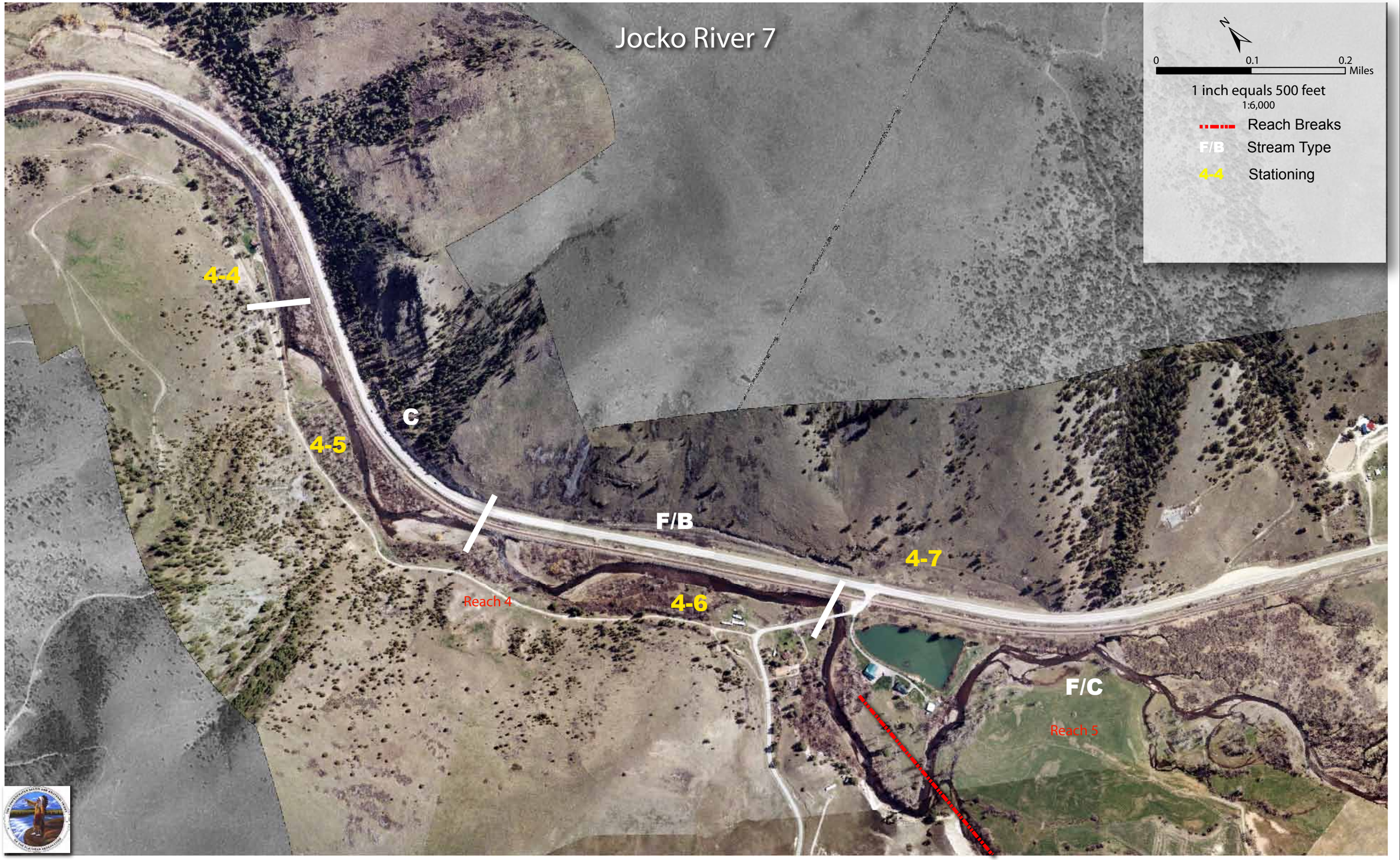
Jocko River 2
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
D/C Stream Type
3-4 Stationing
F/Bc
Reach 3
3-5
3-4
C


Jocko River 3
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
F/Bc Stream Type
3-6 Stationing
F/Bc
3-9
3-7
F/Bc
3-8
Reach 3
F
C
C
3-6

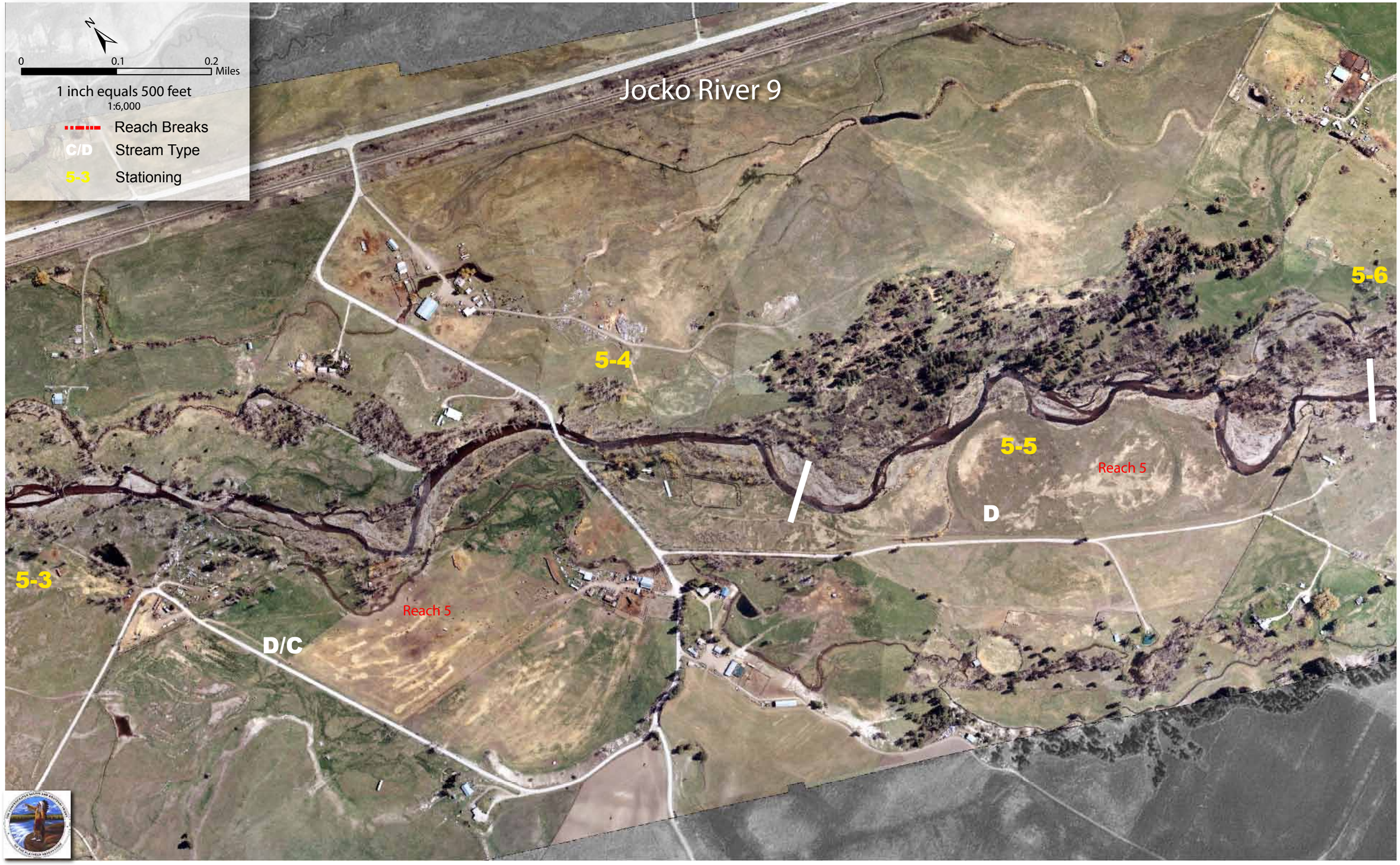
Jocko River 4
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
F/Bc Stream Type
3-10 Stationing
Reference C
3-13
3-12
Bc
Reach 3
FBc
3-11
3-10

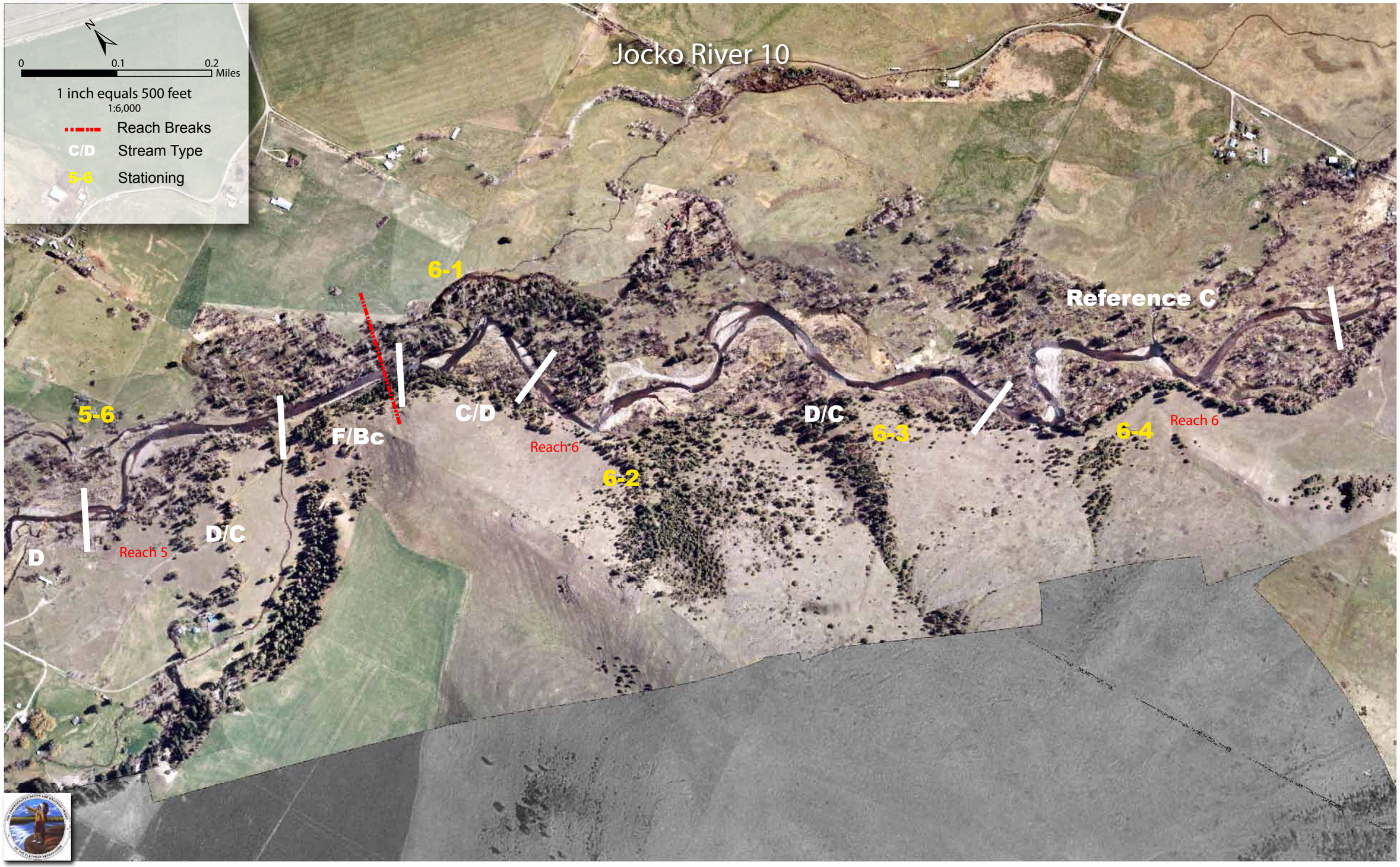
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Bc
Stream Type
3-13
Stationing
Jocko River 5
3-14
Bc
Reach 3
3-13
Reach 4
4-1
Bc
4-2

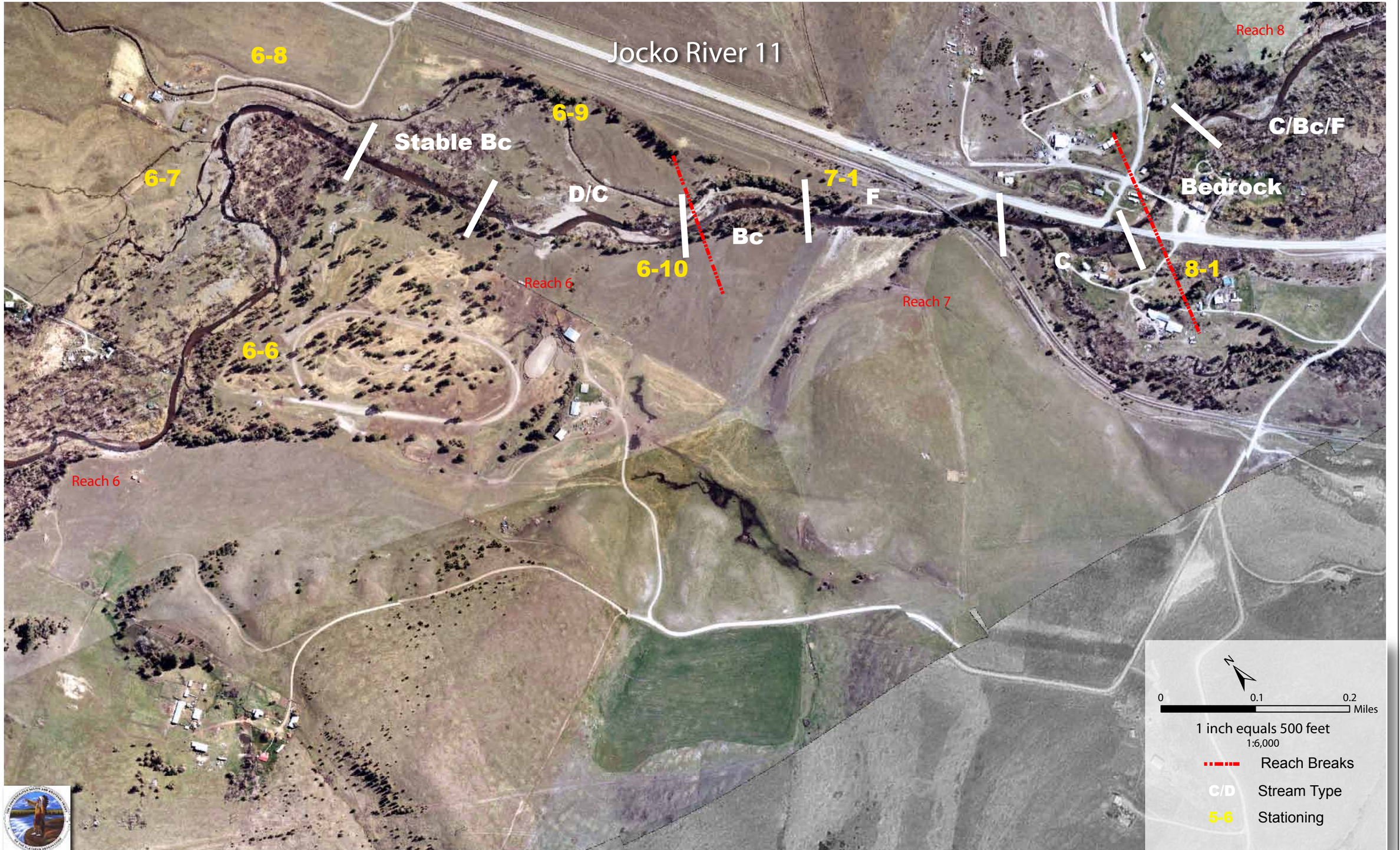

Jocko River 6
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Bc
Stream Type
4-3-1
Stationing
Bc
Reach 4
4-3-1
Bc
B3c
4-3-2
Reach 4
4-4
C

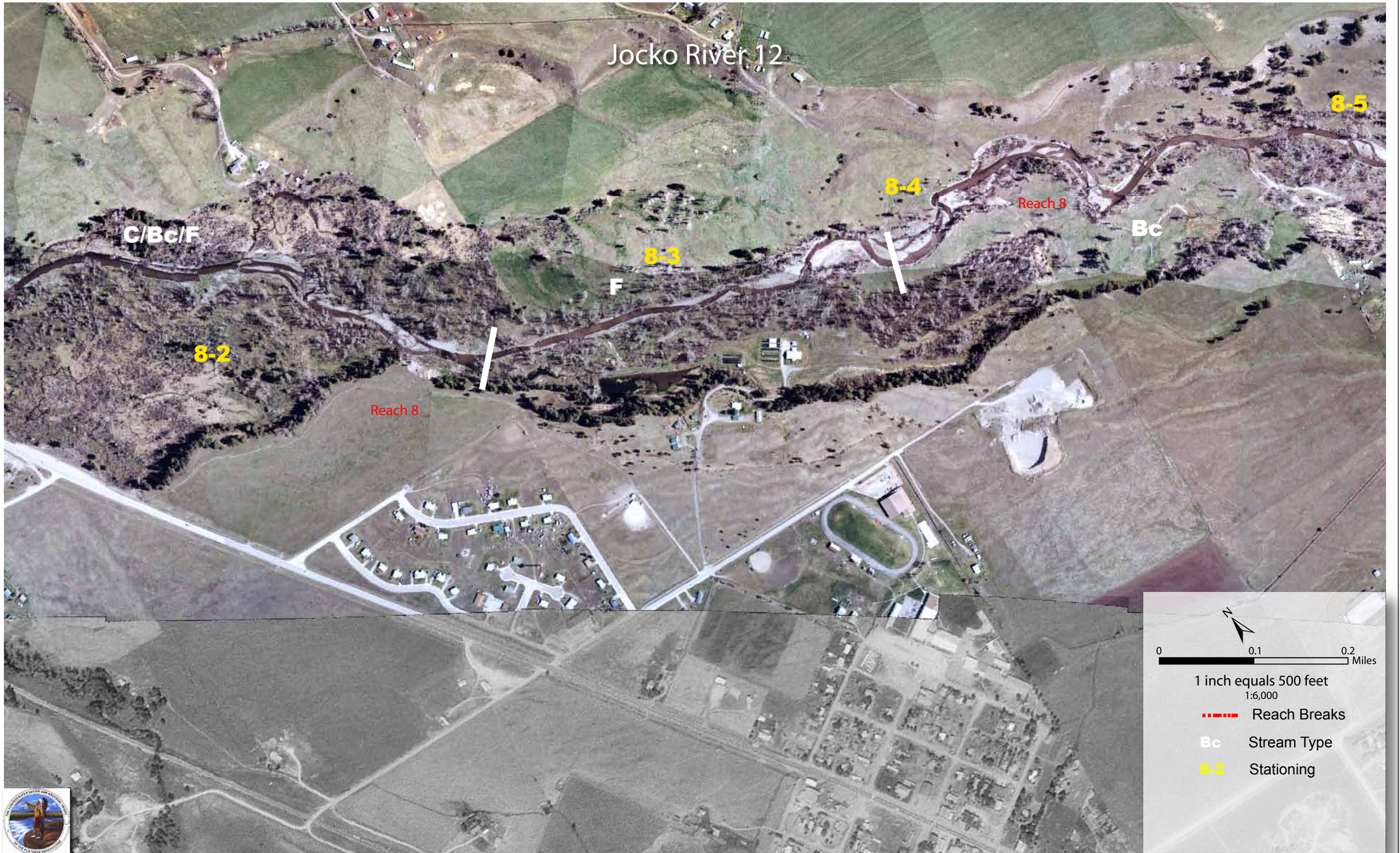

Jocko River 7
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
F/B
Stream Type
4-4
Stationing
4-4
C
4-5
F/B
4-7
Reach 4
4-6
F/C
Reach 5

Jocko River 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
C/D
Stream Type
5-3
Stationing
5-3
5-3
D/C
5-3
C
F
F/C
C/D
Reach 5
5-3


N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
C/D
Stream Type
5-3
Stationing
Jocko River 9
5-6
5-4
5-5
Reach 5
D
5-3
Reach 5
D/C


Jocko River 10
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
C/D
Stream Type
5-6
Stationing
6-1
Reference C
5-6
F/Bc
C/D
D/C
6-3
6-4
Reach 6
Reach 6
6-2
D/C
D
Reach 5


Jocko River 11
6-8
6-9
6-7
Stable Bc
D/C
Bc
6-10
7-1
F
C
8-1
Bedrock
C/Bc/F
Reach 8
Reach 6
Reach 7
6-6
Reach 6
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
C/D
Stream Type
5-6
Stationing


Jocko River 12
8-5
8-4
Reach 8
Bc
C/Bc/F
8-3
F
8-2
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Bc
Stream Type
8-2
Stationing

Jocko River 13
Aggrading C
Bc
8-5
Reach 8
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
Bc
Stream Type
8-2
Stationing

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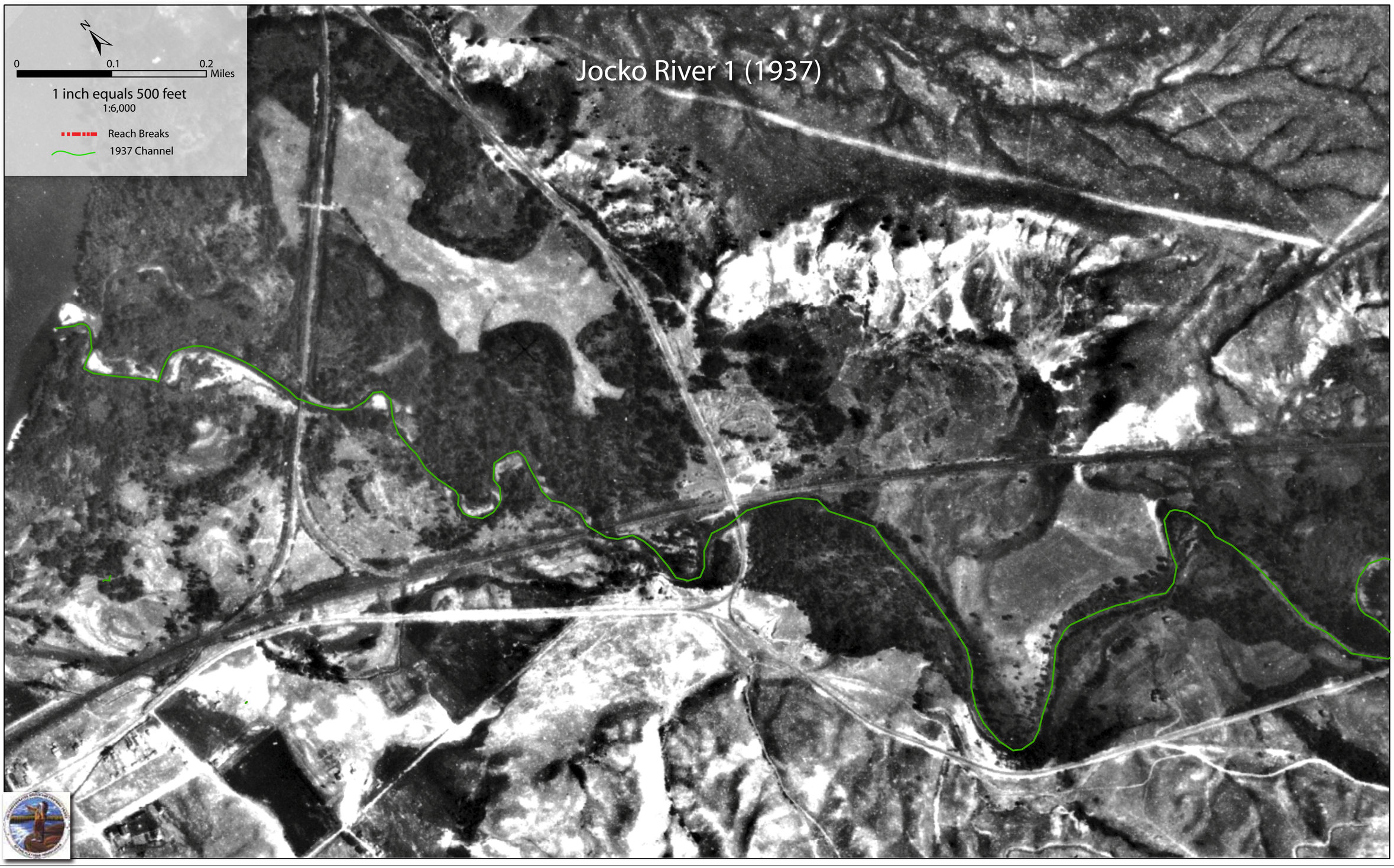
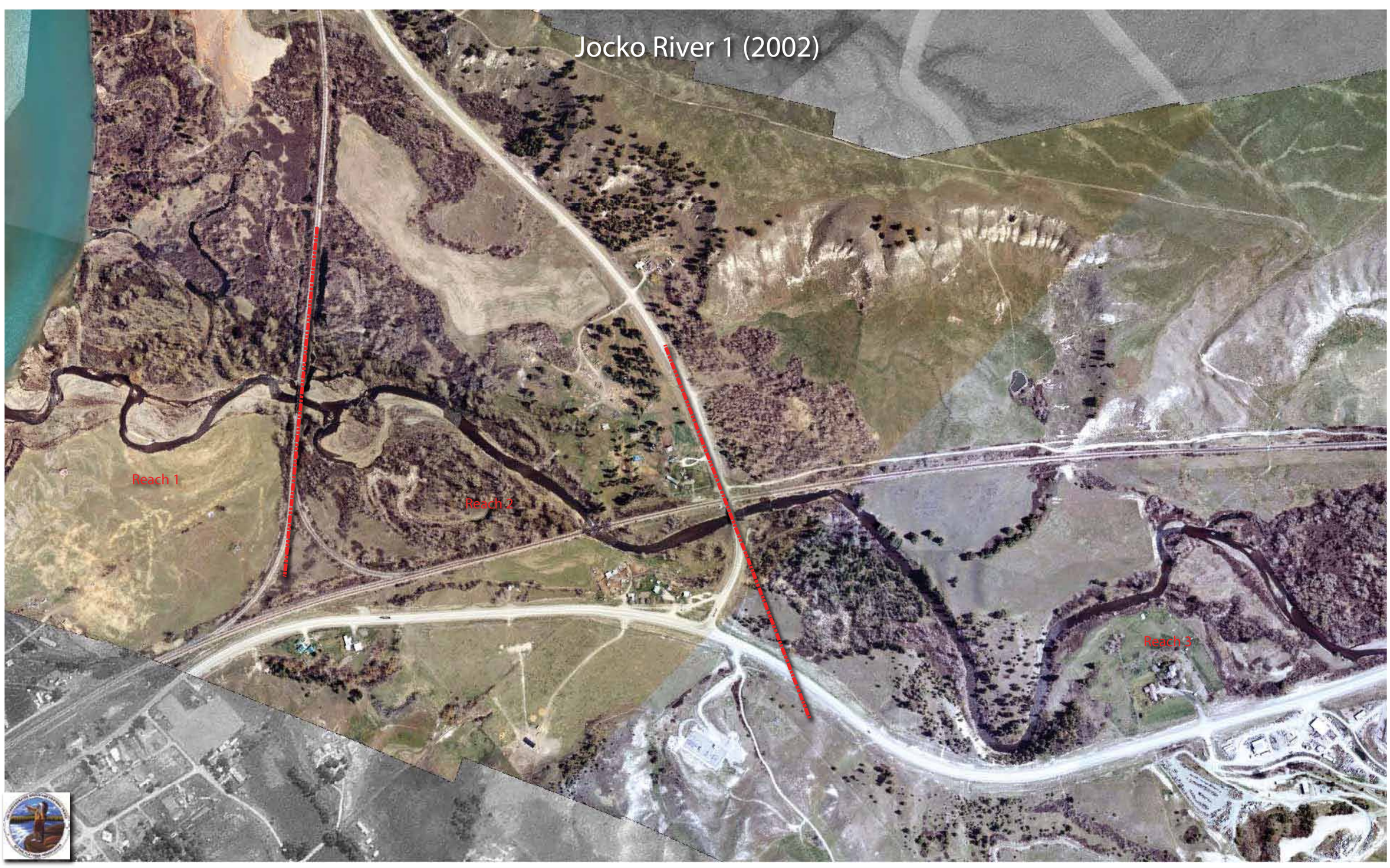
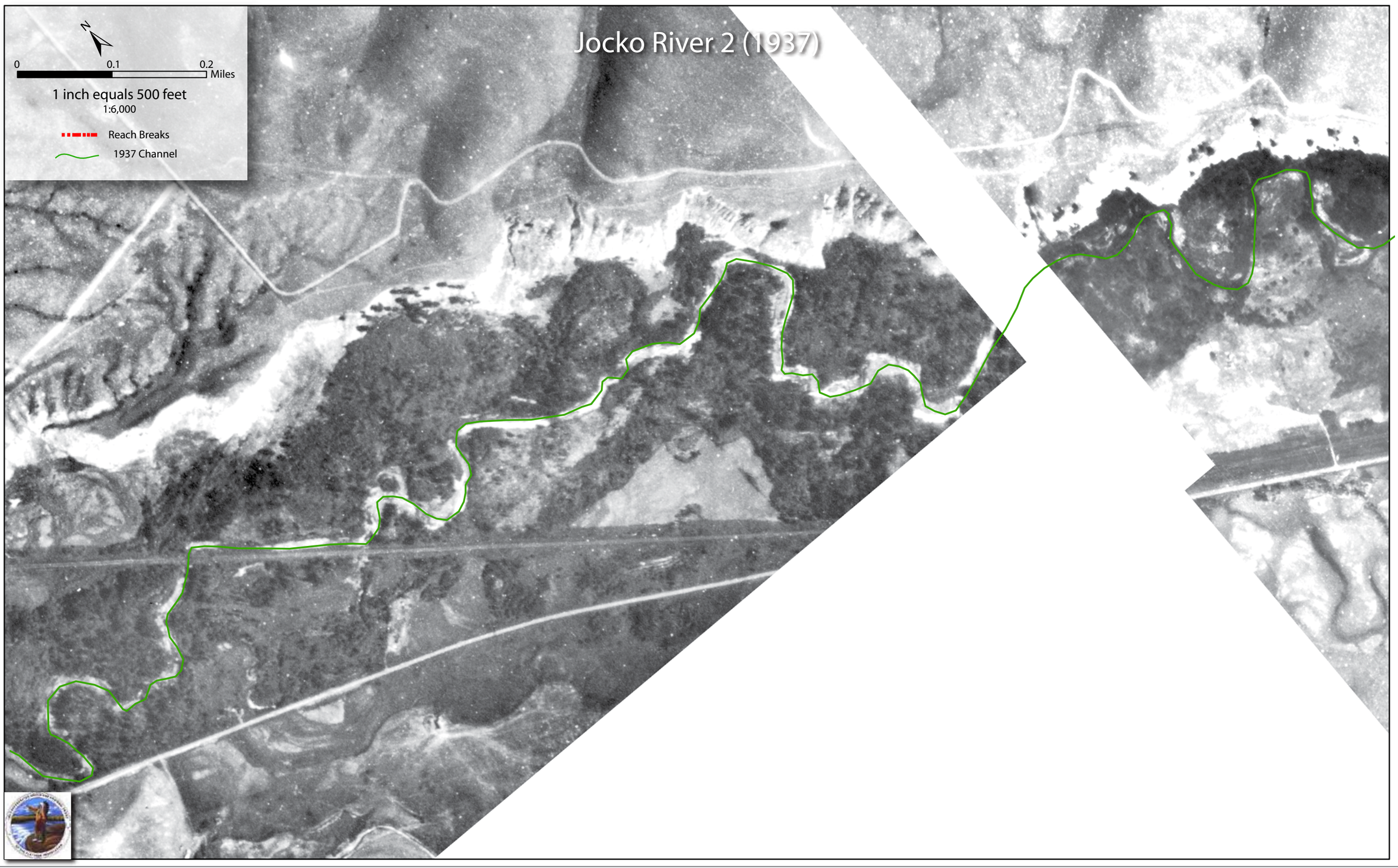
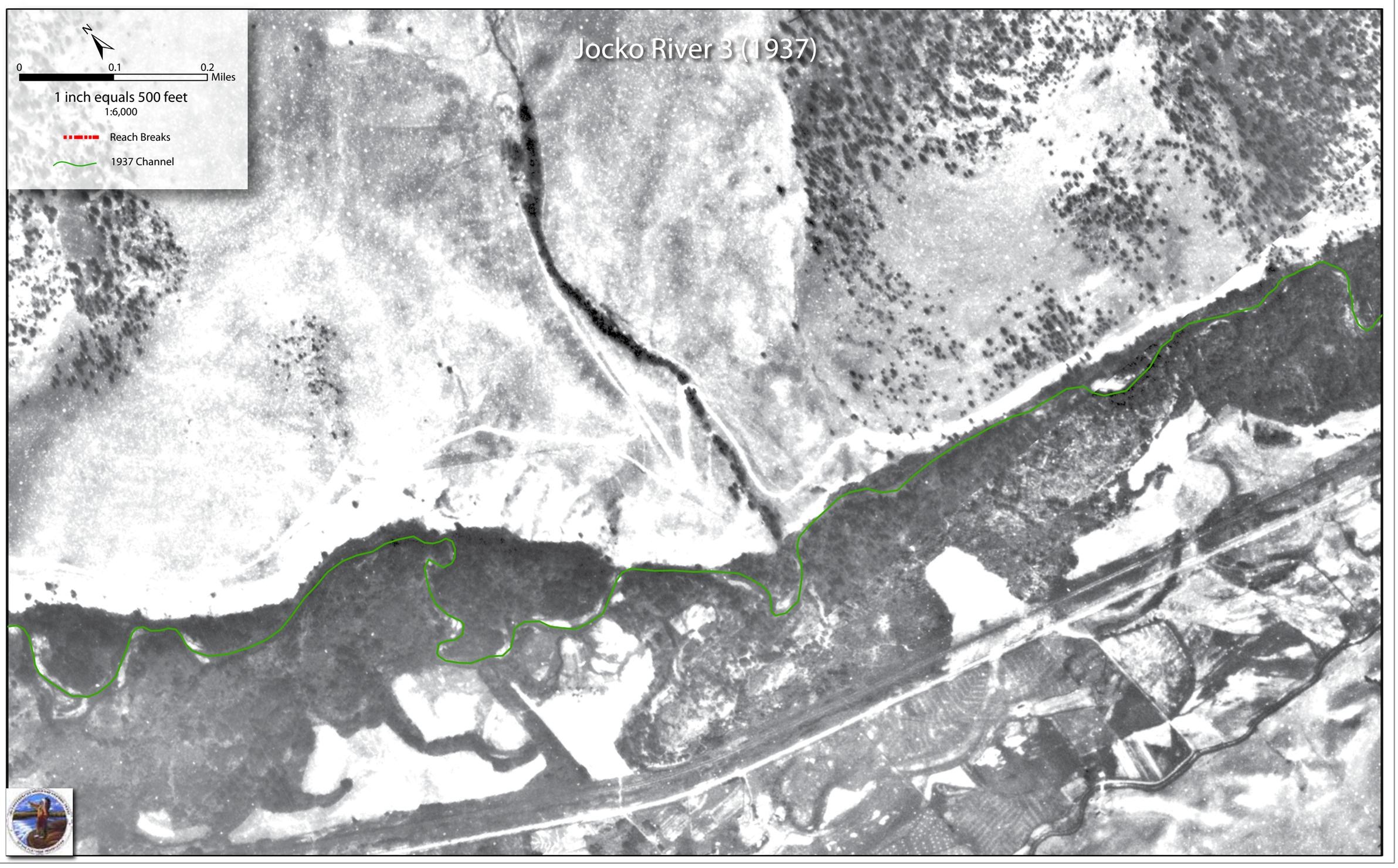
Appendix D-4: 1937 and 2002 Aerial Photographs

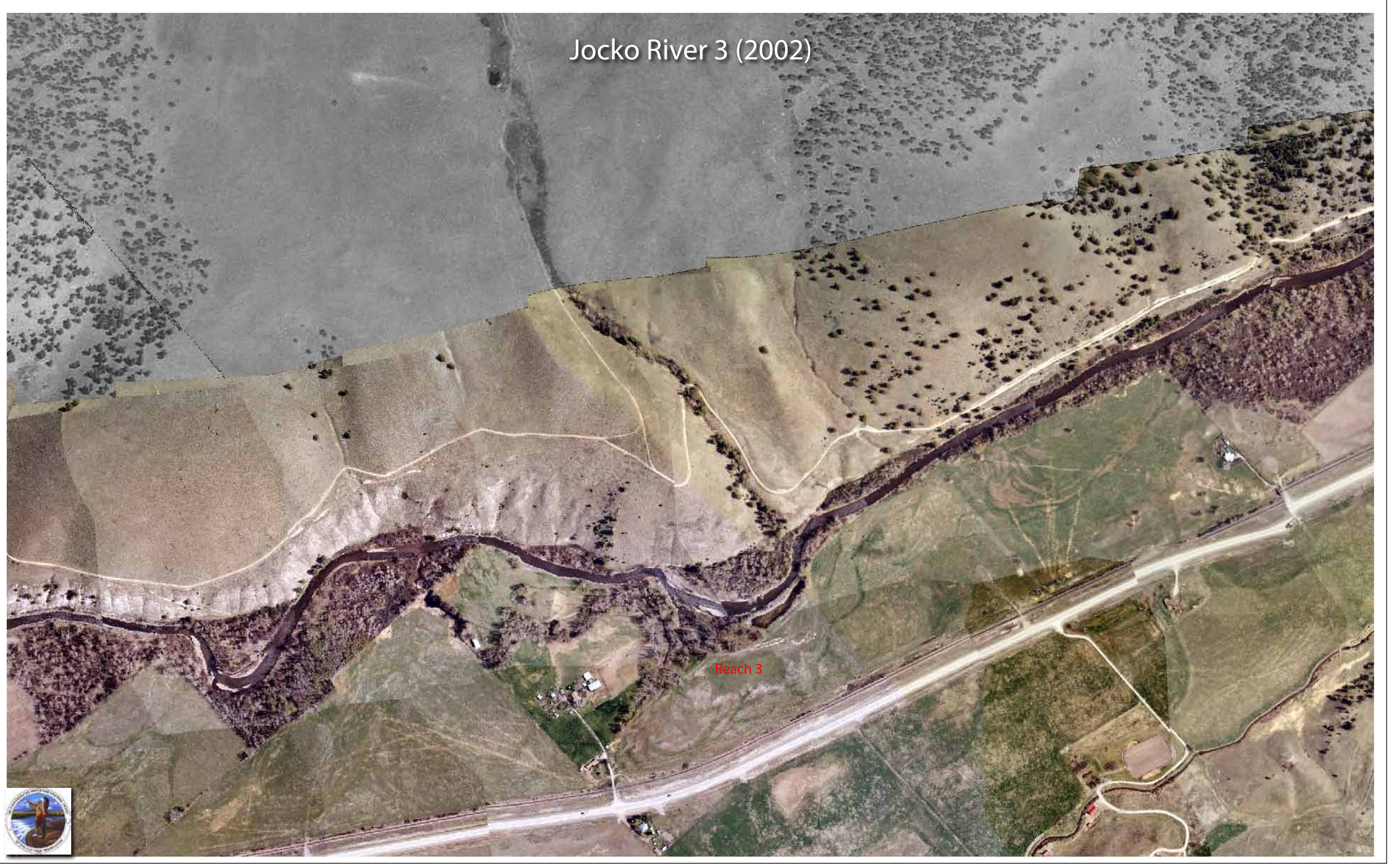

Jocko River 1 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

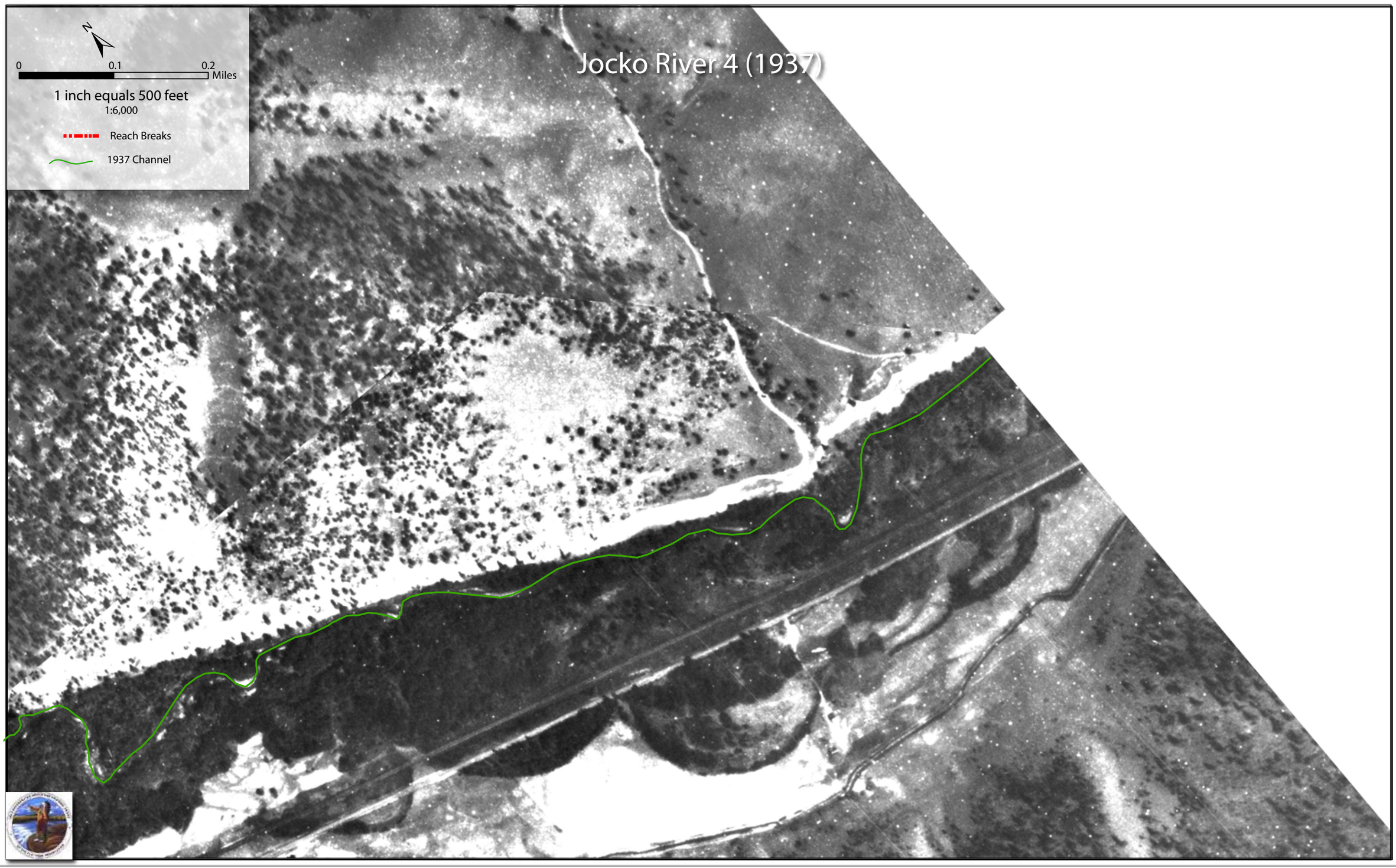

Jocko River 1 (2002)
Reach 1
Reach 2
Reach 3


Jocko River 2 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

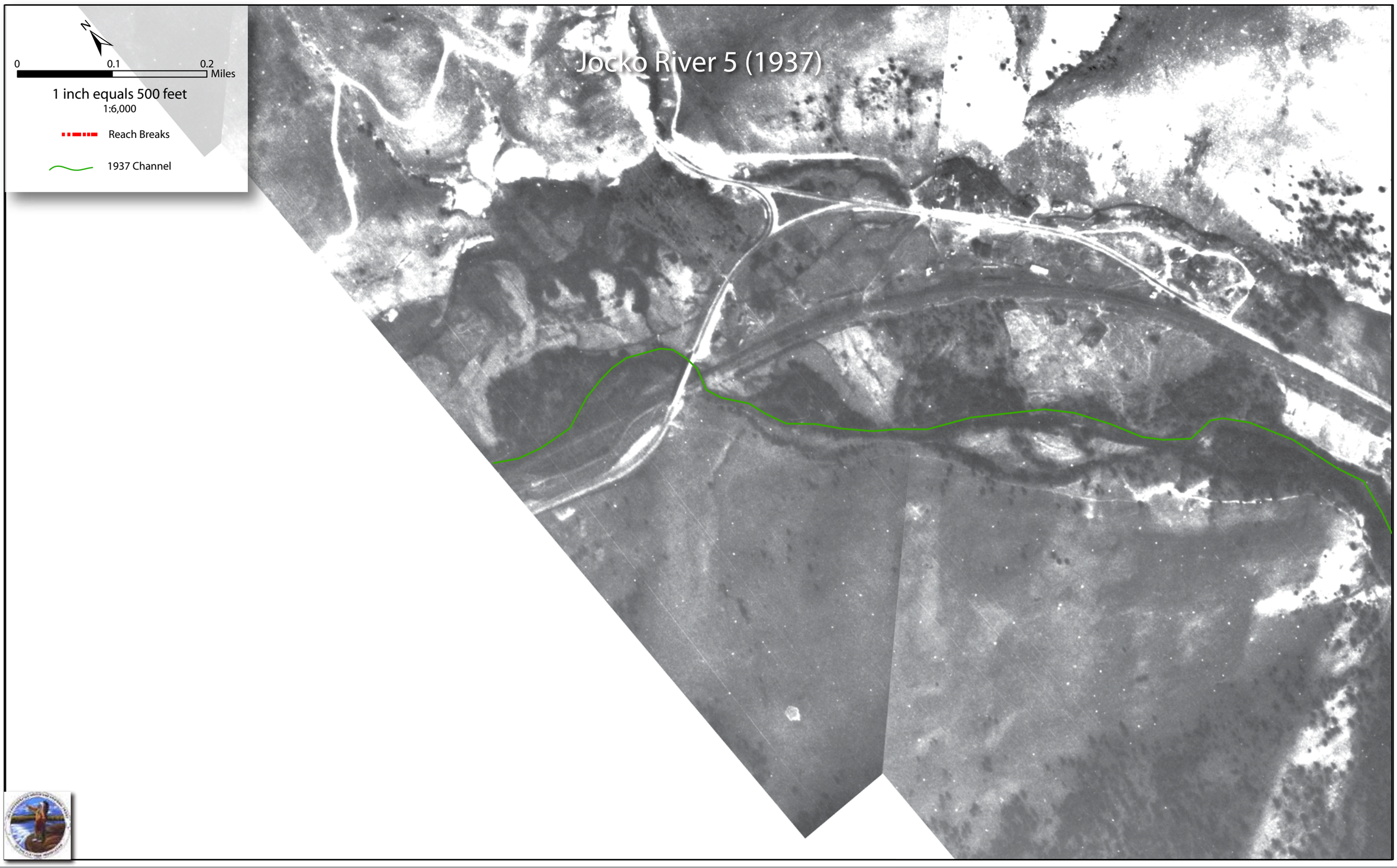
Jocko River 2 (2002)
Reach 3


Jocko River 3 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

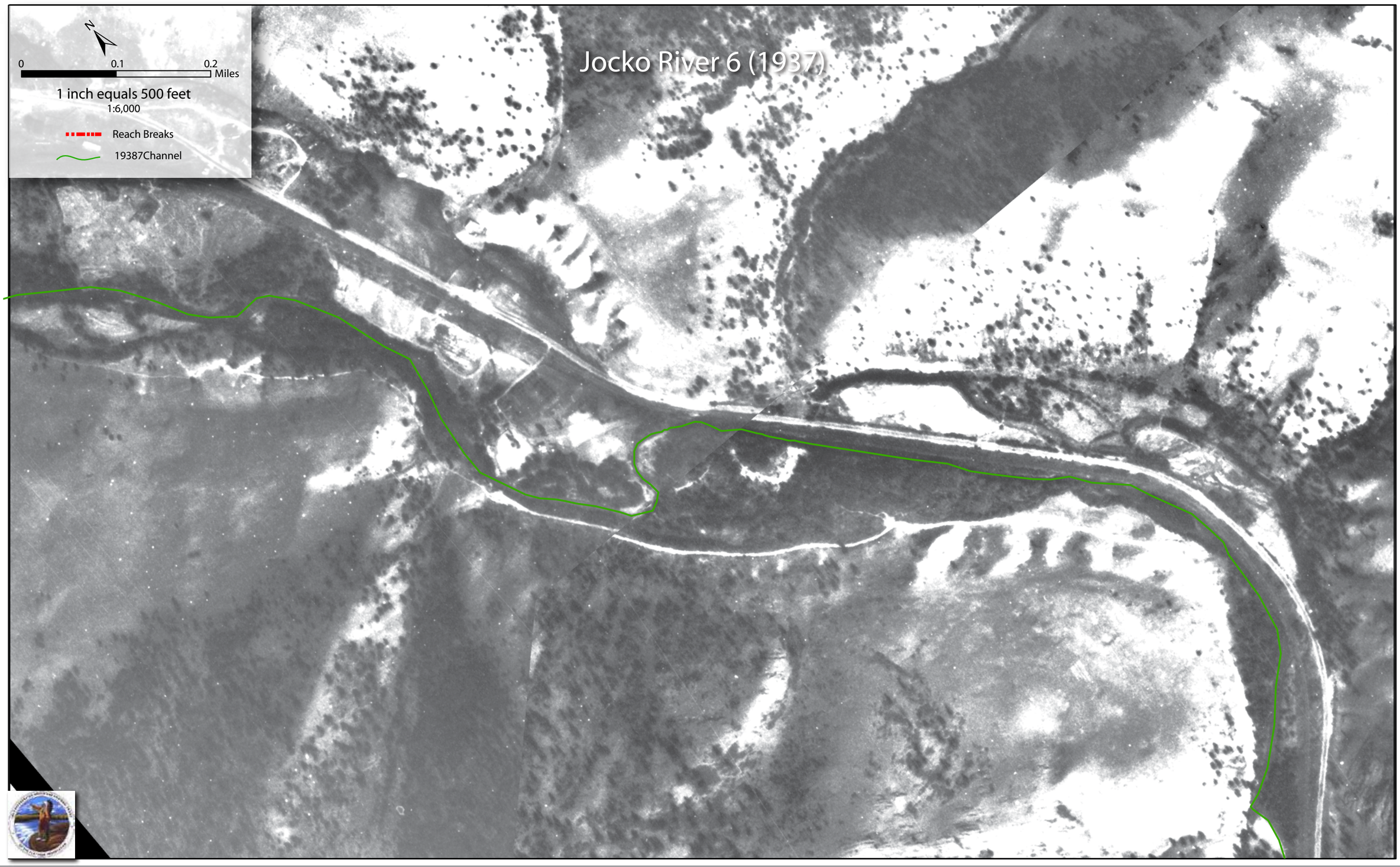

Jocko River 3 (2002)
Reach 3

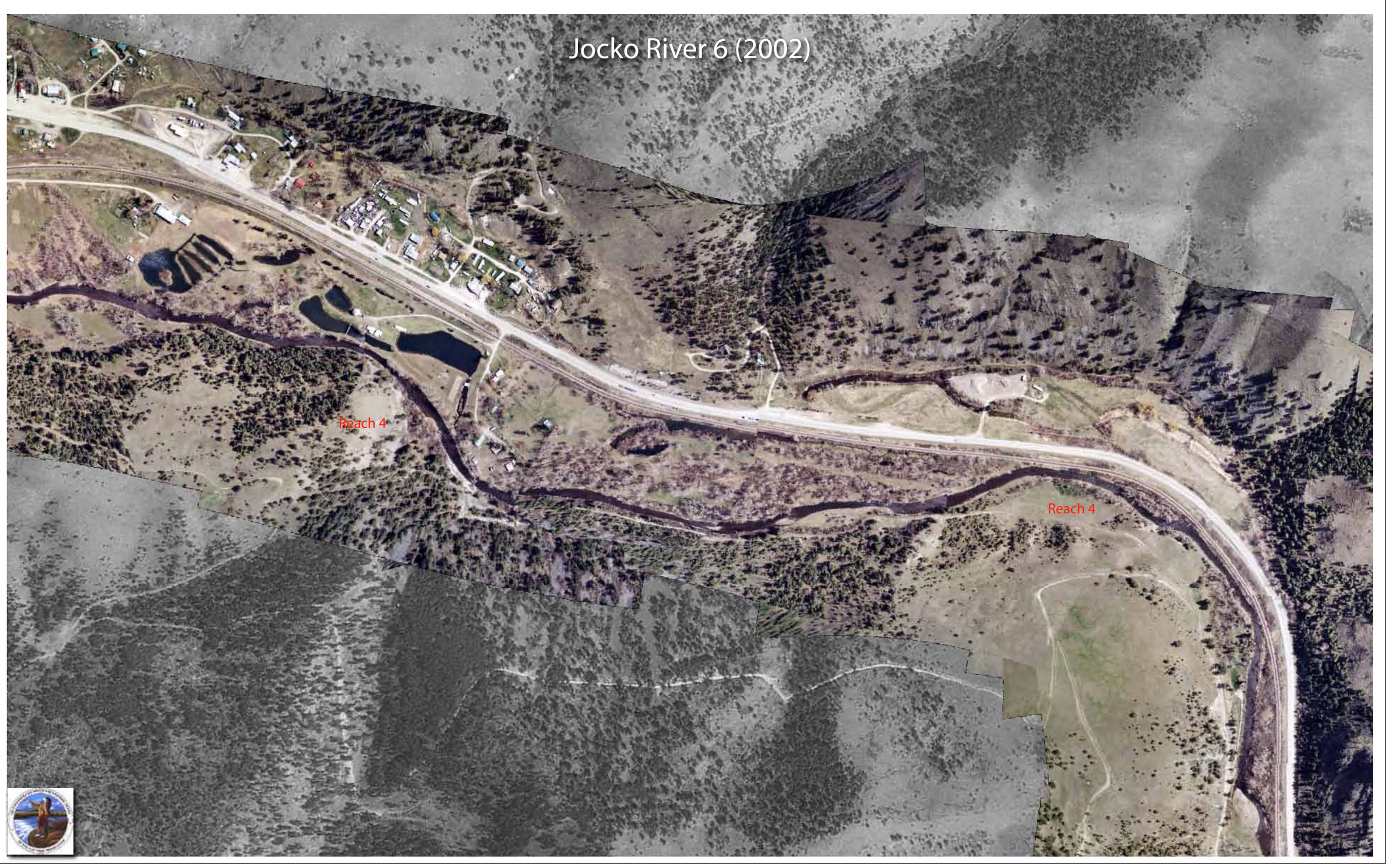

Jocko River 4 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

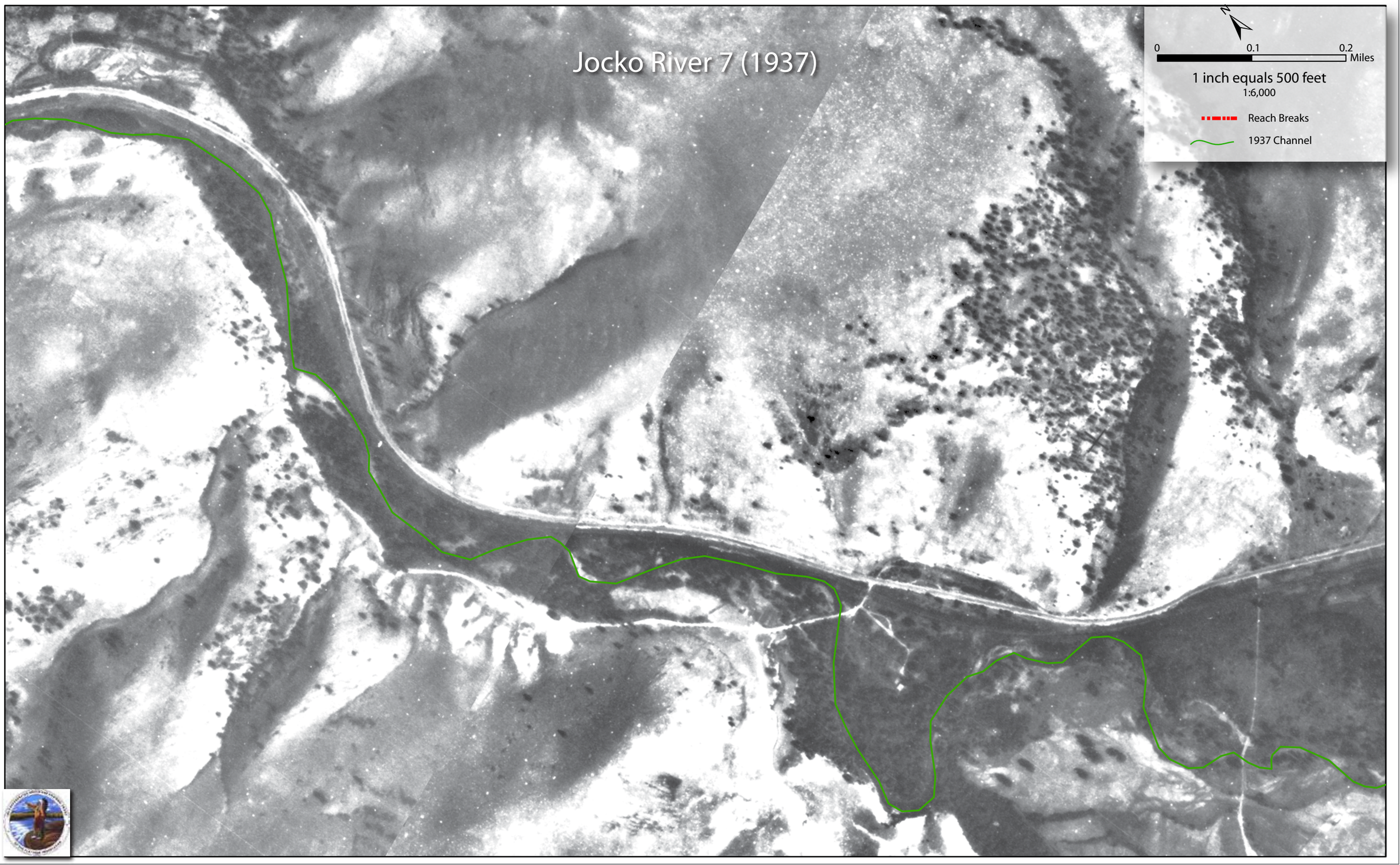
Jocko River 4 (2002)
Reach 3

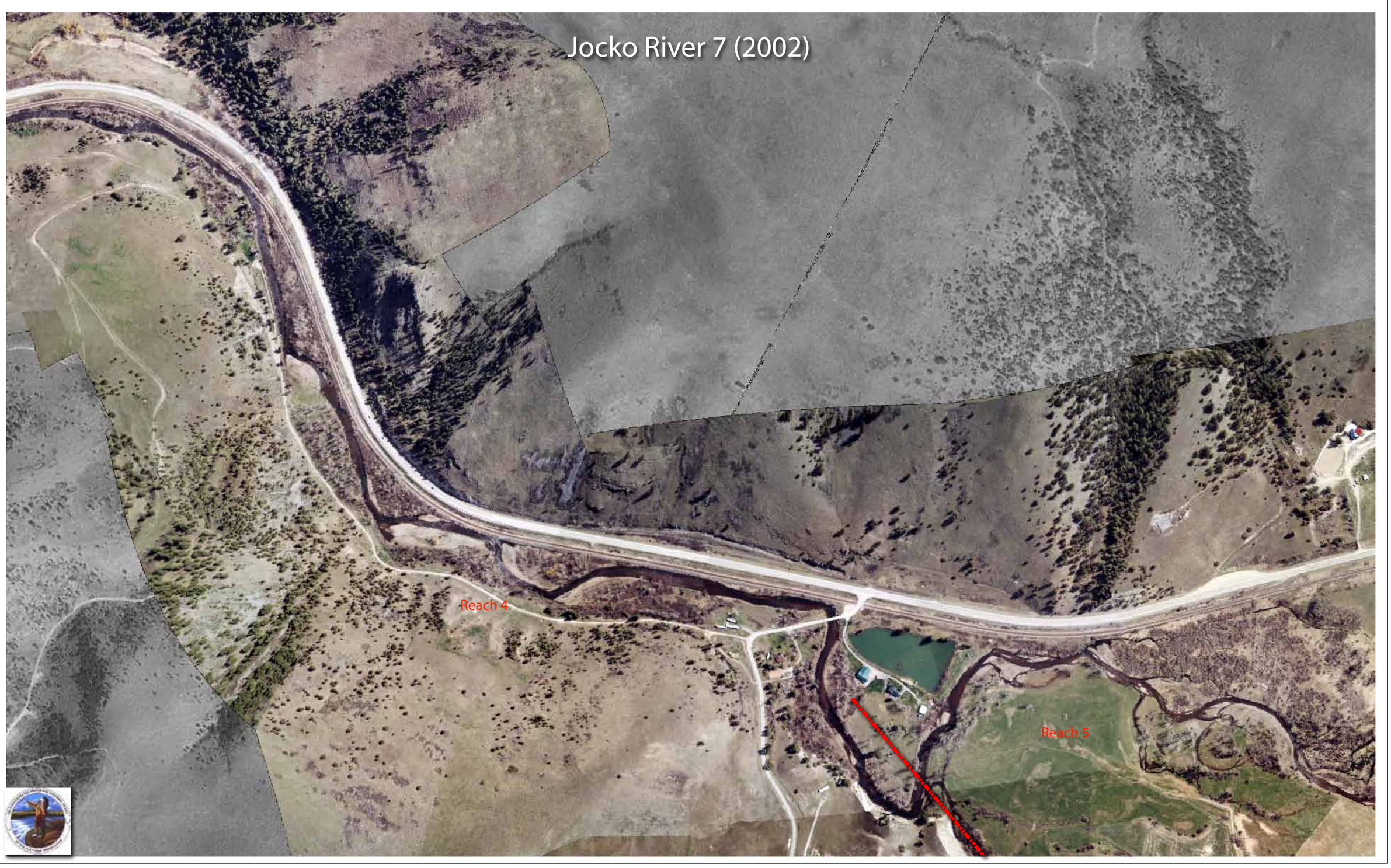

Jocko River 5 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

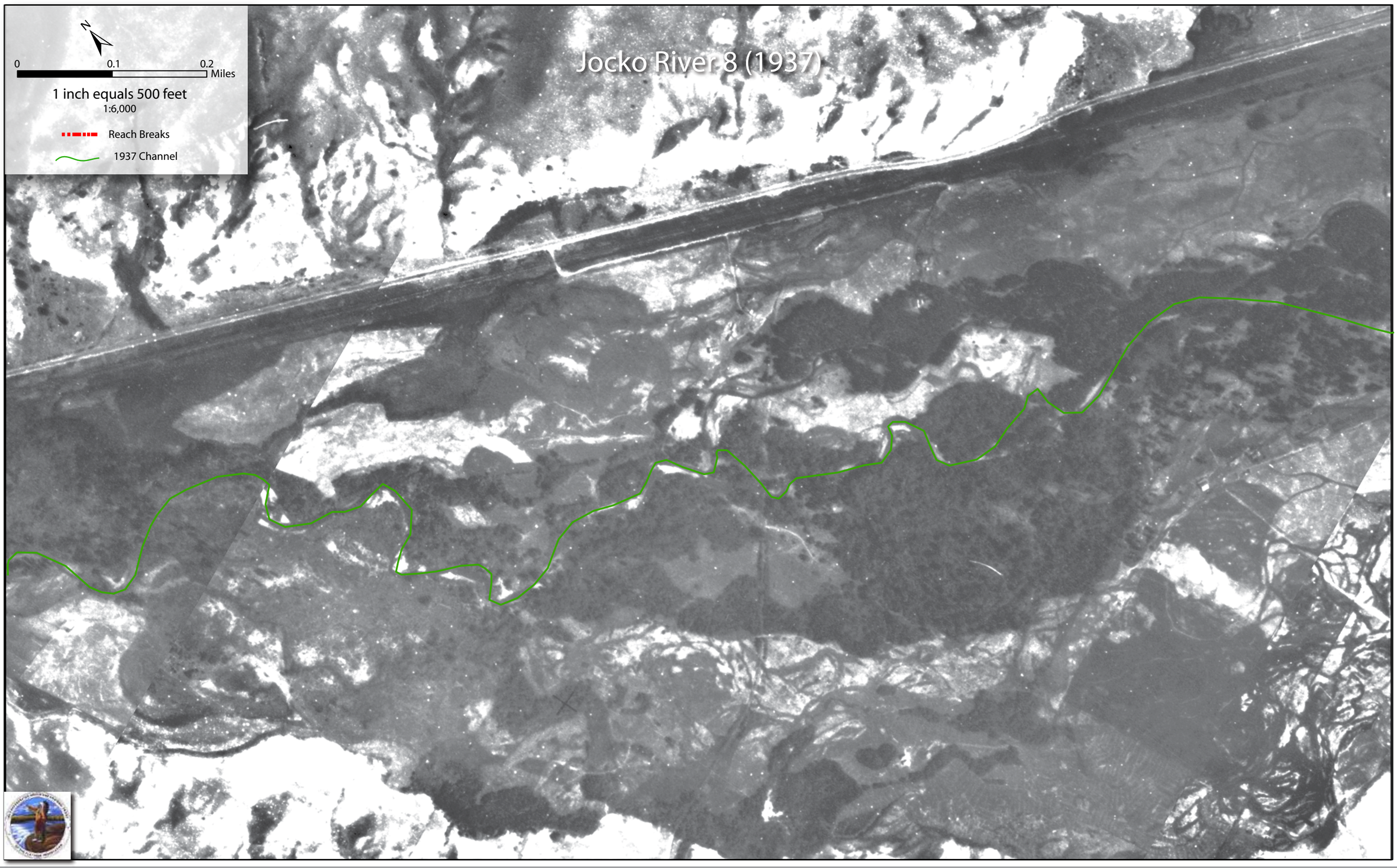
Jocko River 5 (2002)
Reach 3
Reach 4

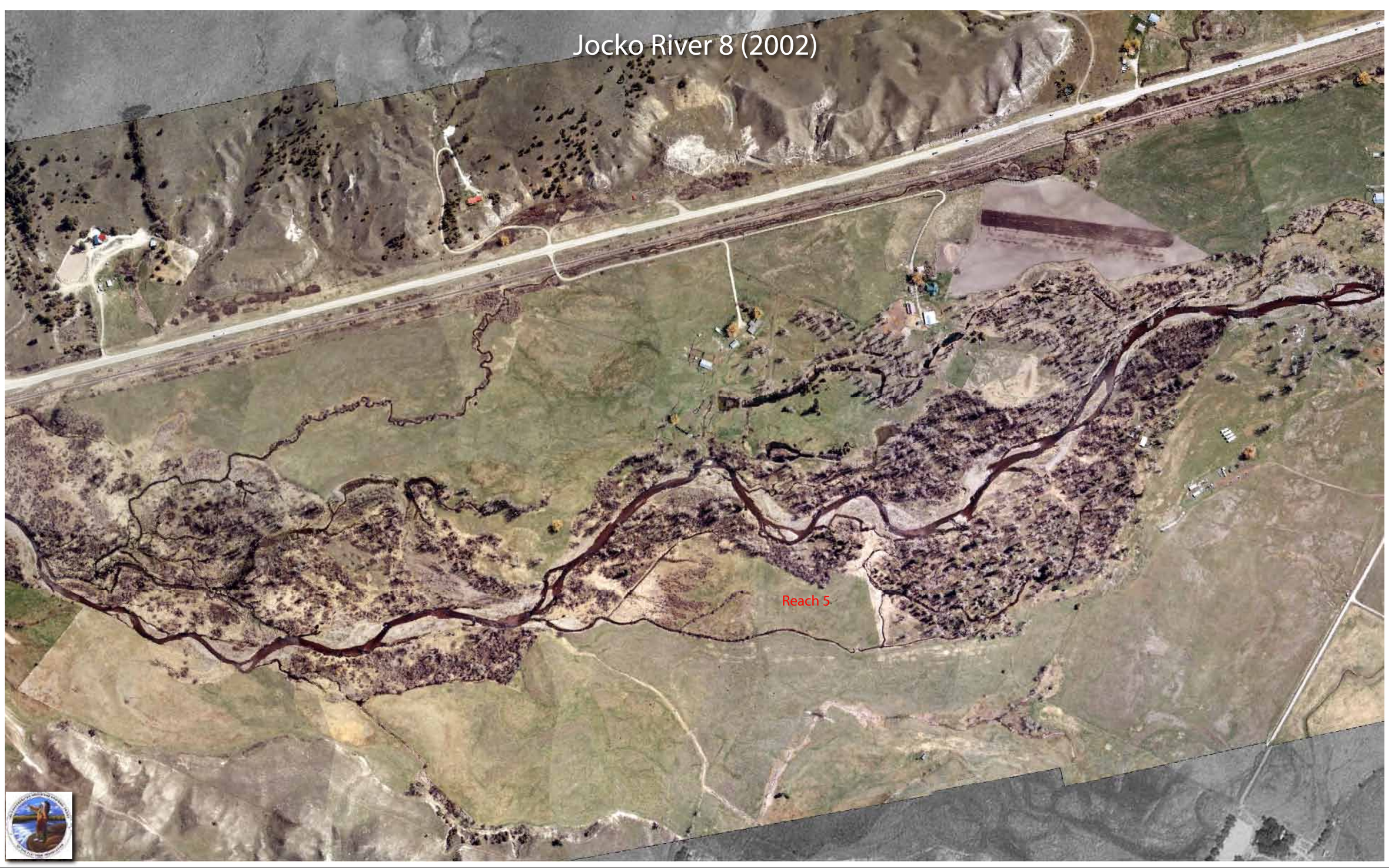

Jocko River 6 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
19387Channel

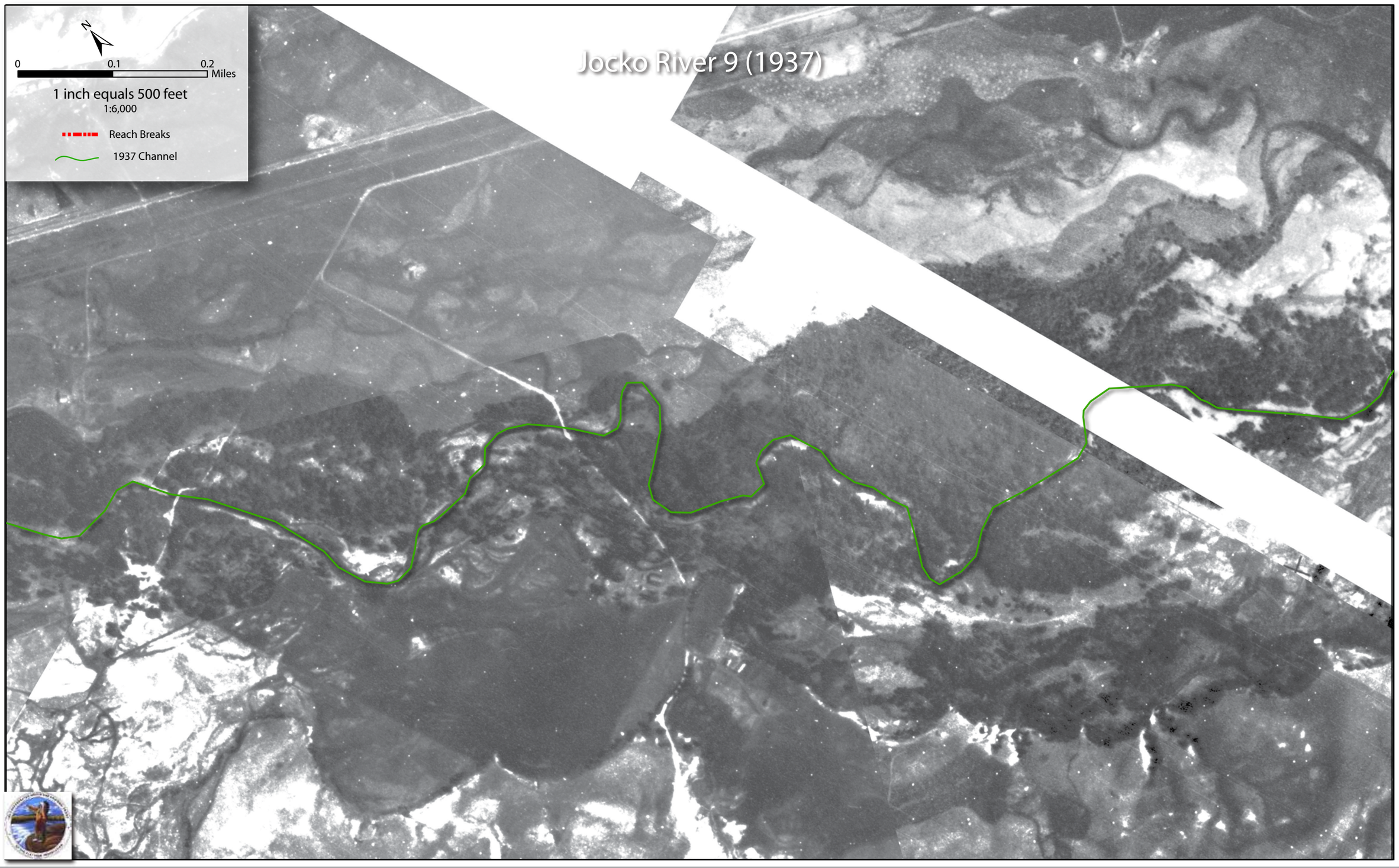

Jocko River 6 (2002)
Reach 4
Reach 4

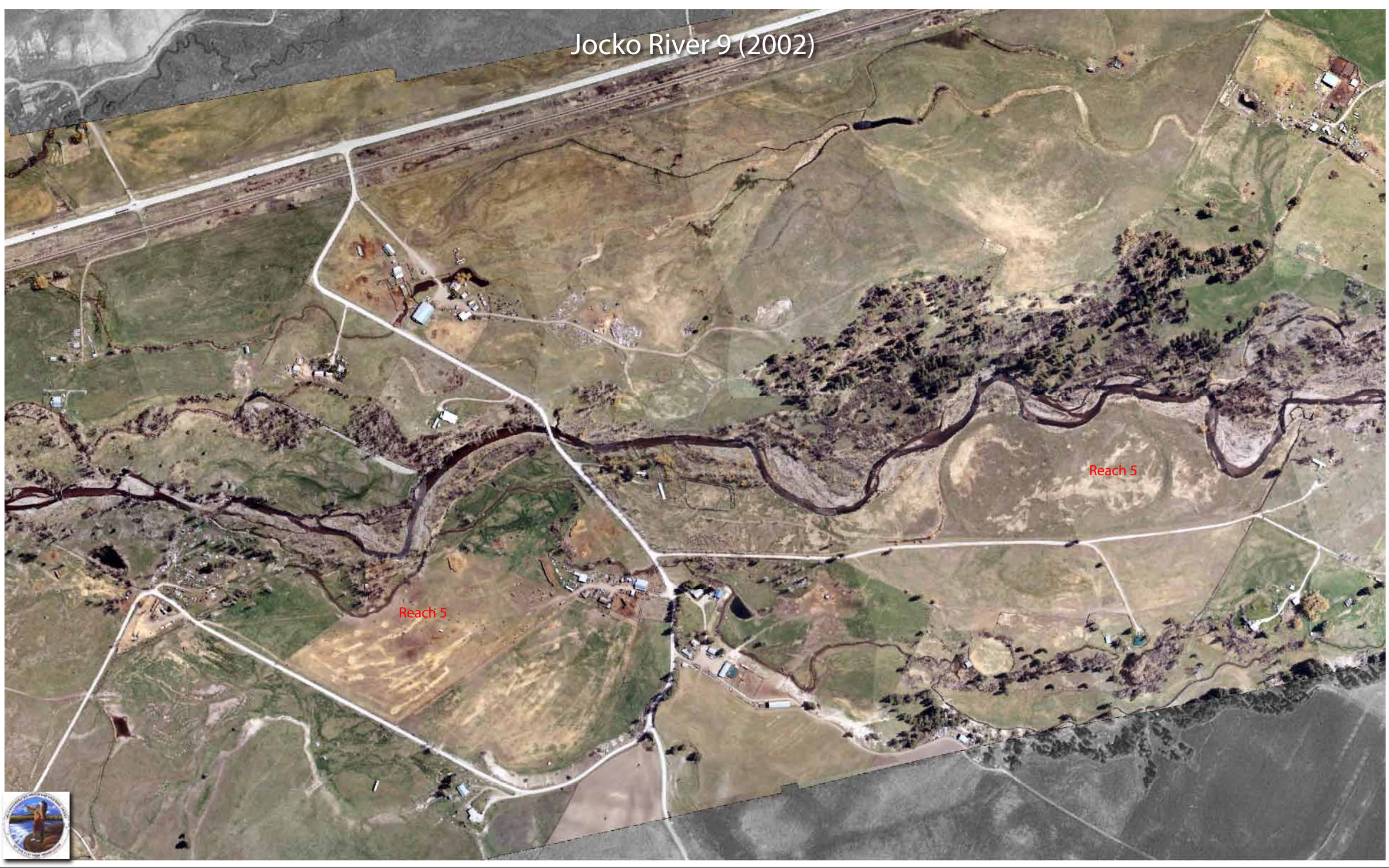

Jocko River 7 (1937)
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

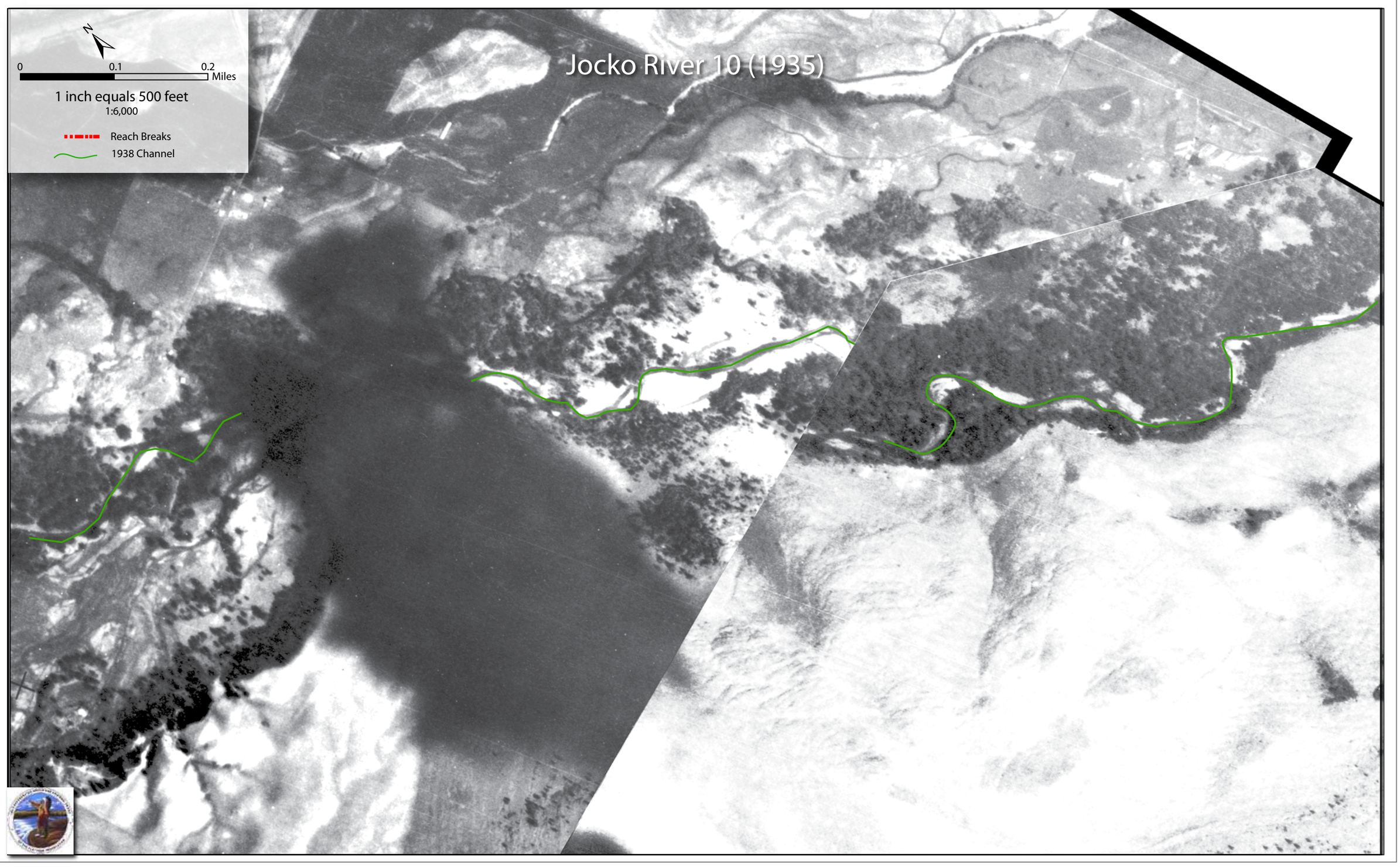

Jocko River 7 (2002)
Reach 4
Reach 5

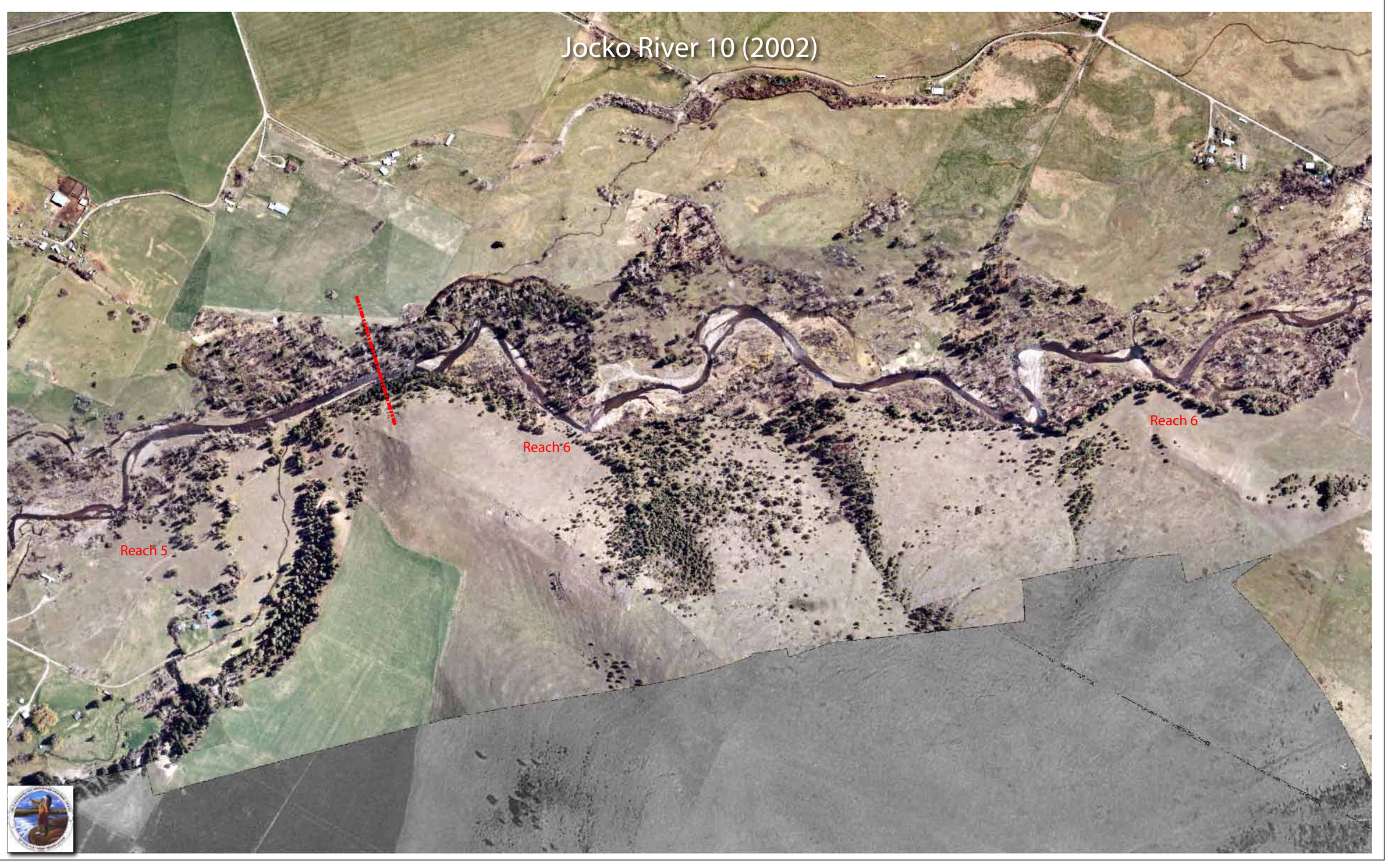

Jocko River 8 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

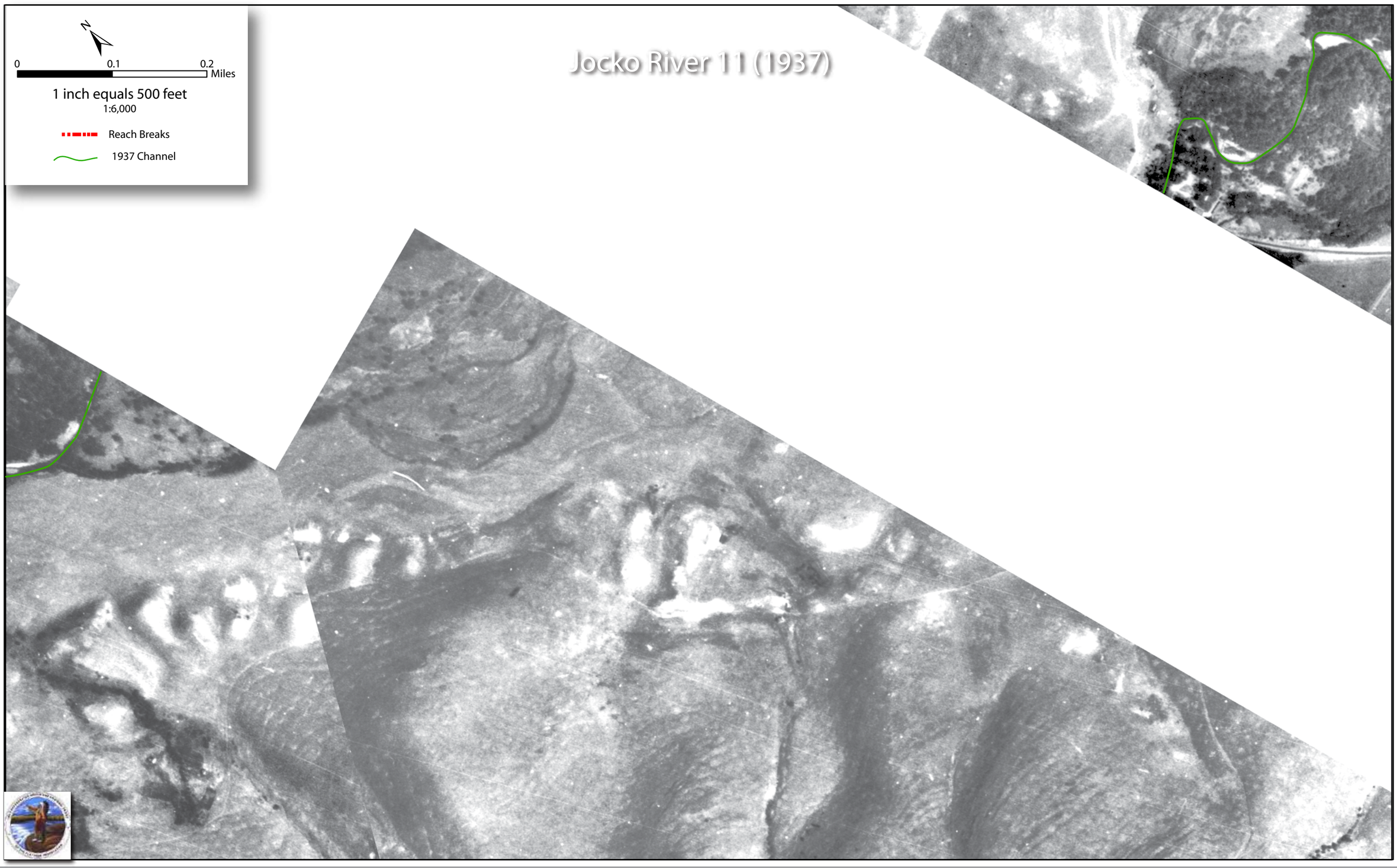

Jocko River 8 (2002)
Reach 5


Jocko River 9 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

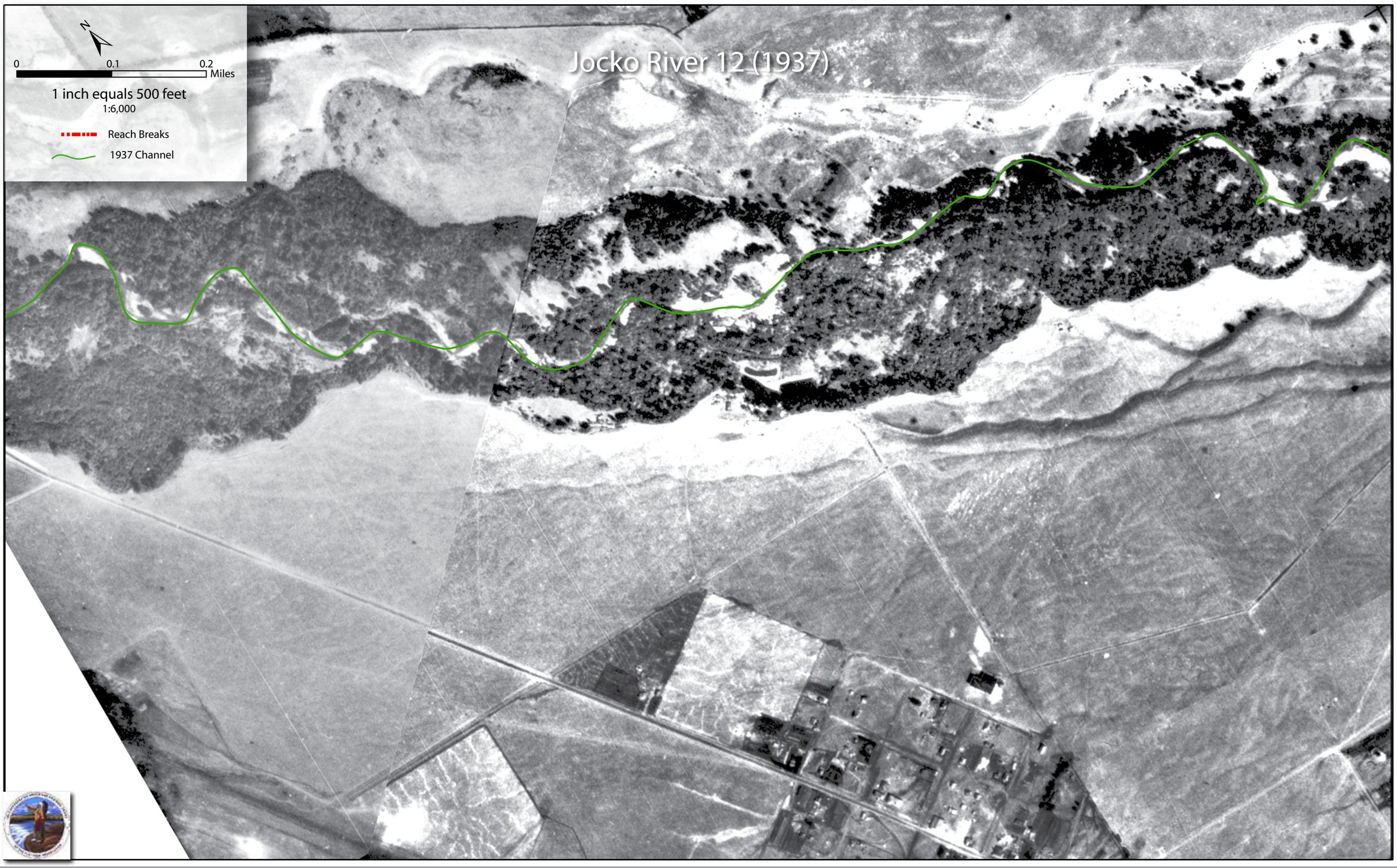

Jocko River 9 (2002)
Reach 5
Reach 5

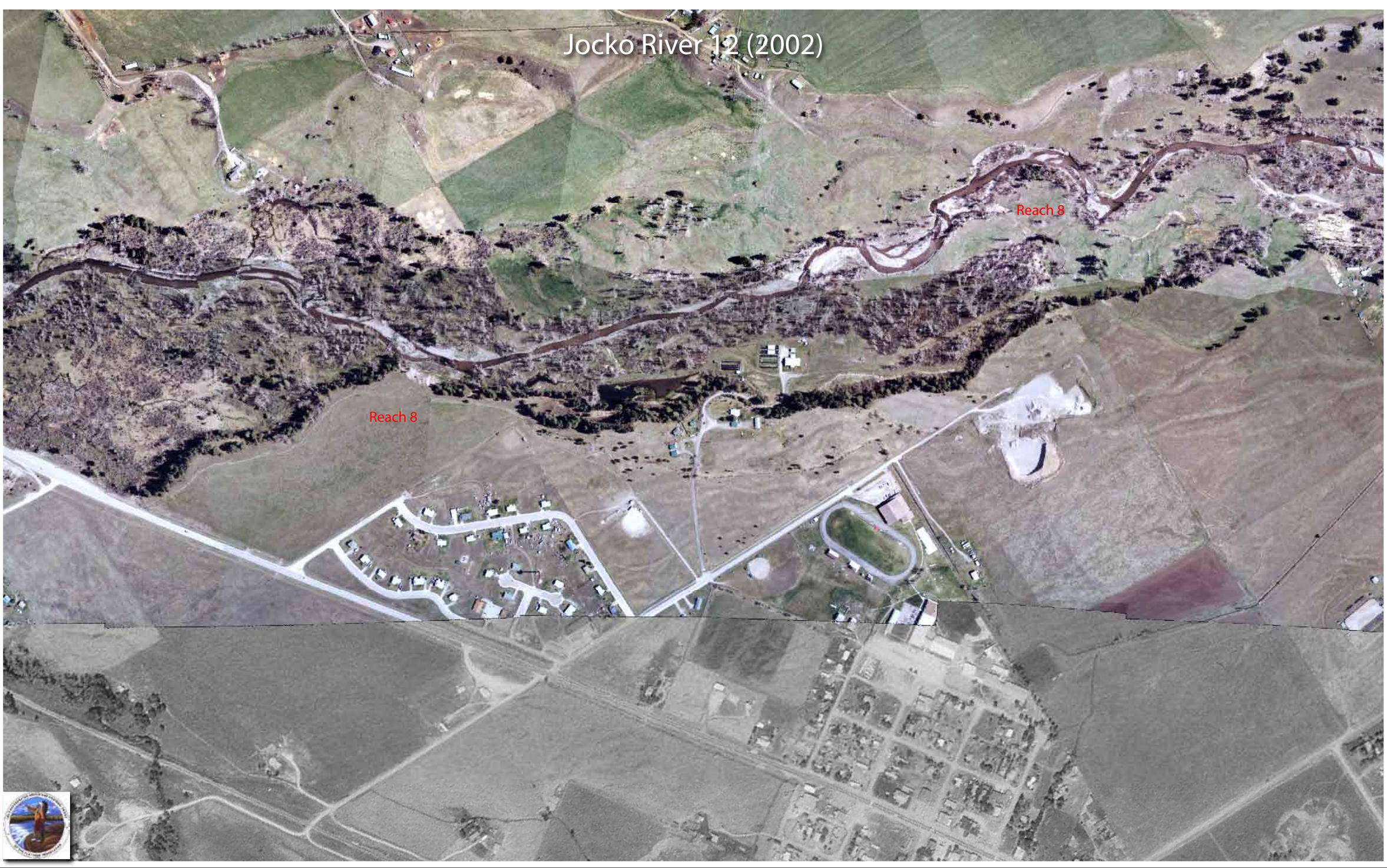

Jocko River 10 (1935)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1938 Channel

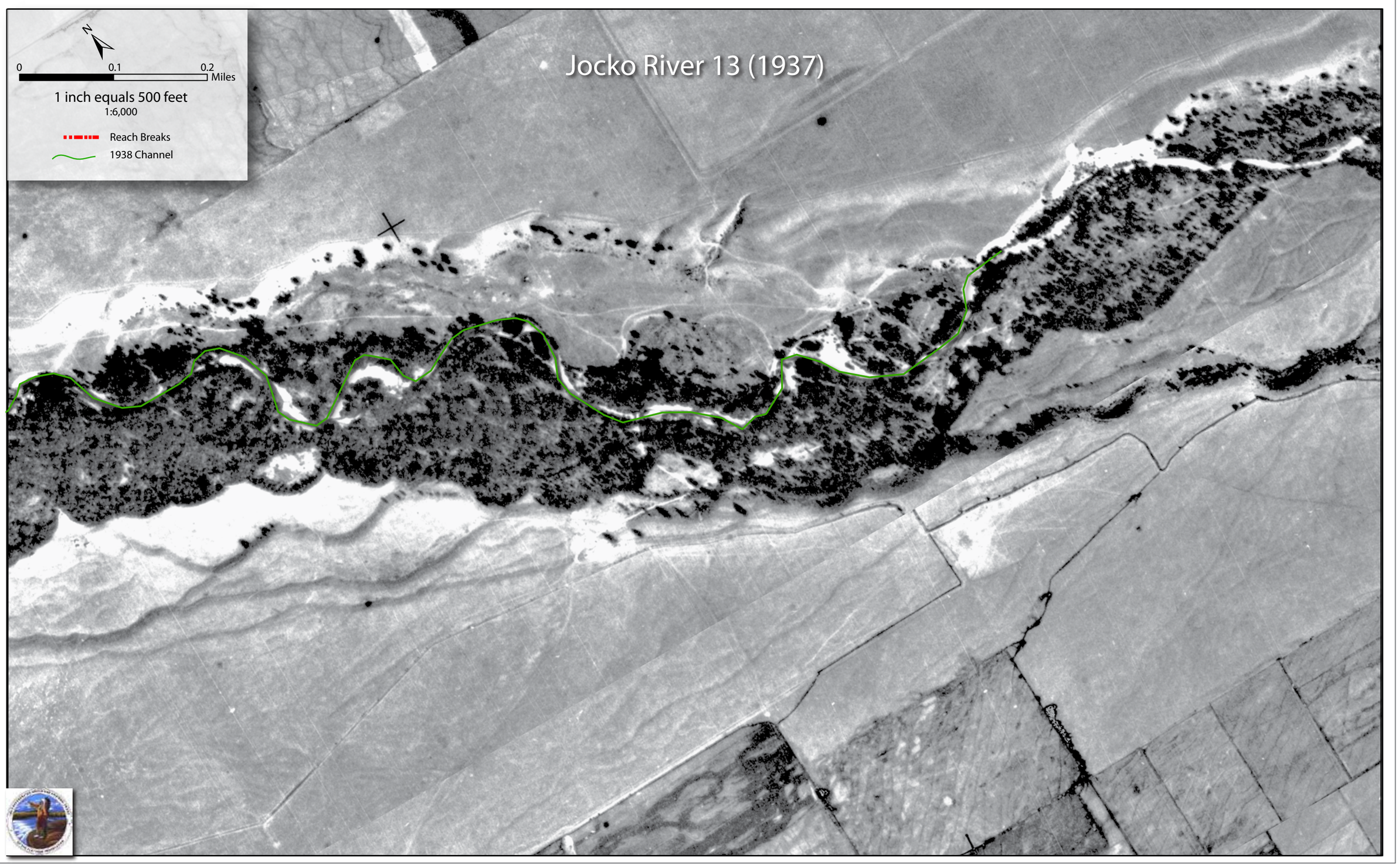

Jocko River 10 (2002)
Reach 5
Reach 6
Reach 6

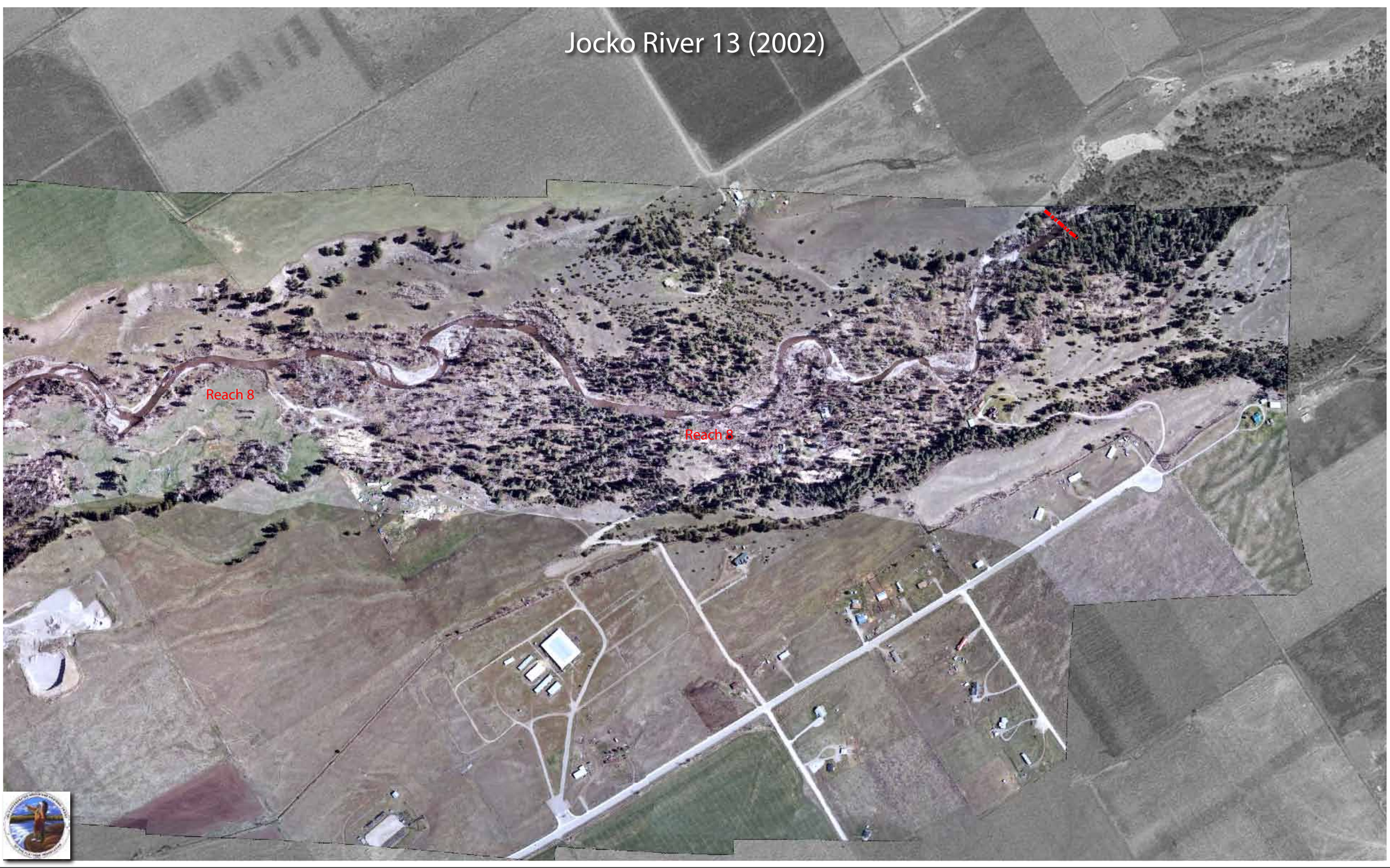

Jocko River 11 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel

Jocko River 11 (2002)
Reach 8
Reach 7
Reach 6


Jocko River 12 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1937 Channel


Jocko River 12 (2002)
Reach 8
Reach 8


Jocko River 13 (1937)
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1938 Channel


Jocko River 13 (2002)
Reach 8
Reach 8

Appendix D-5: Historic Channels 1883 to 2002

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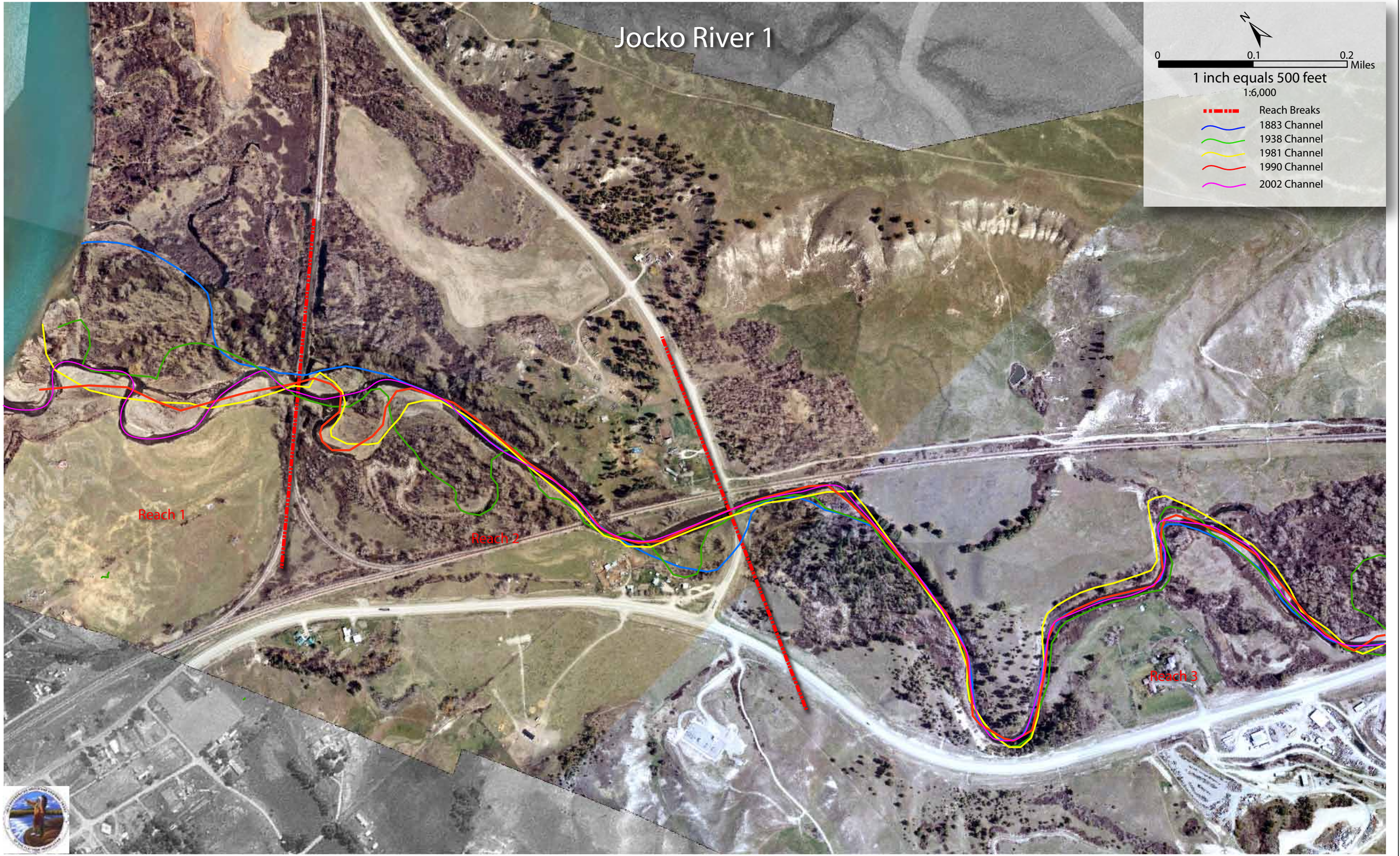
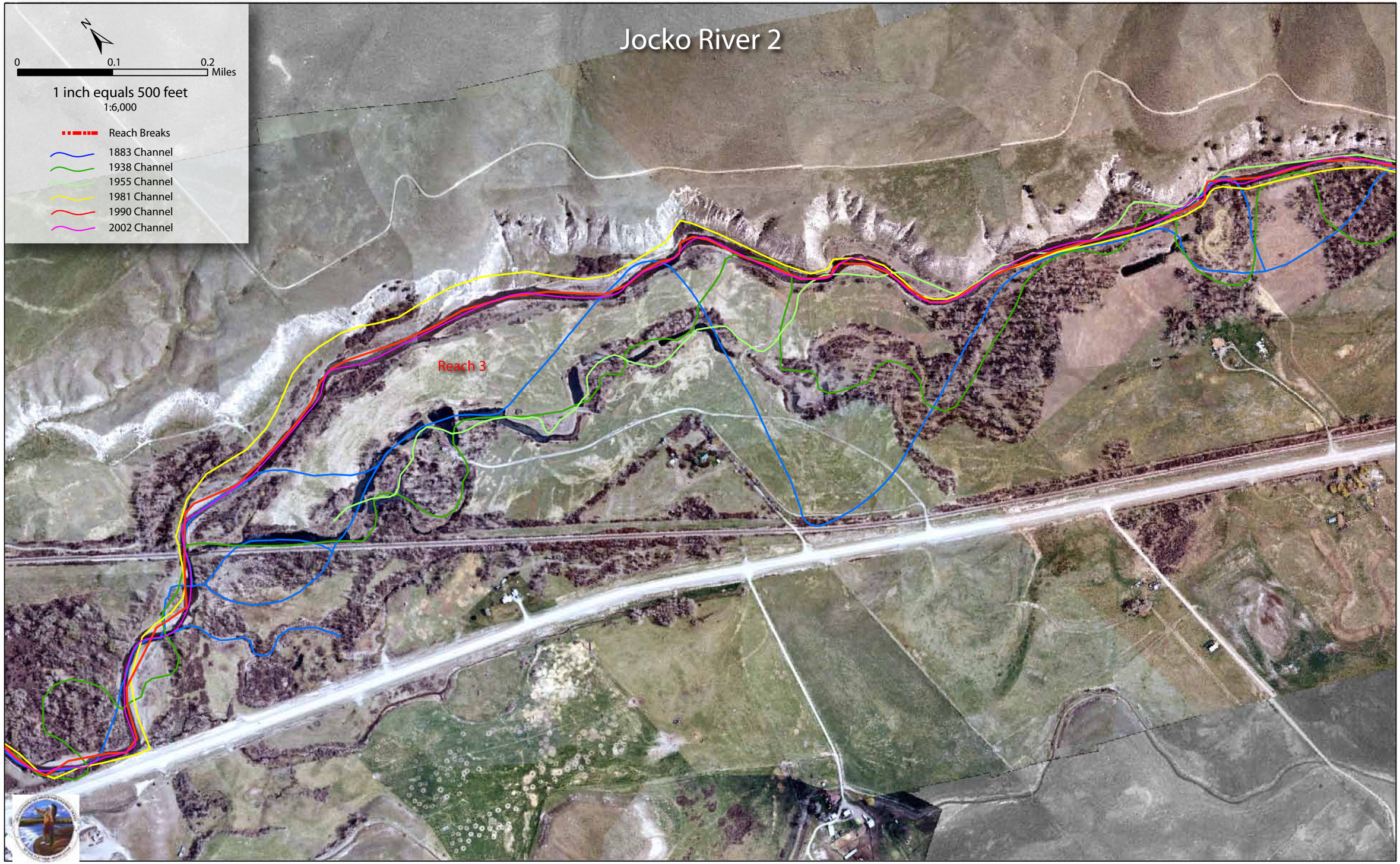
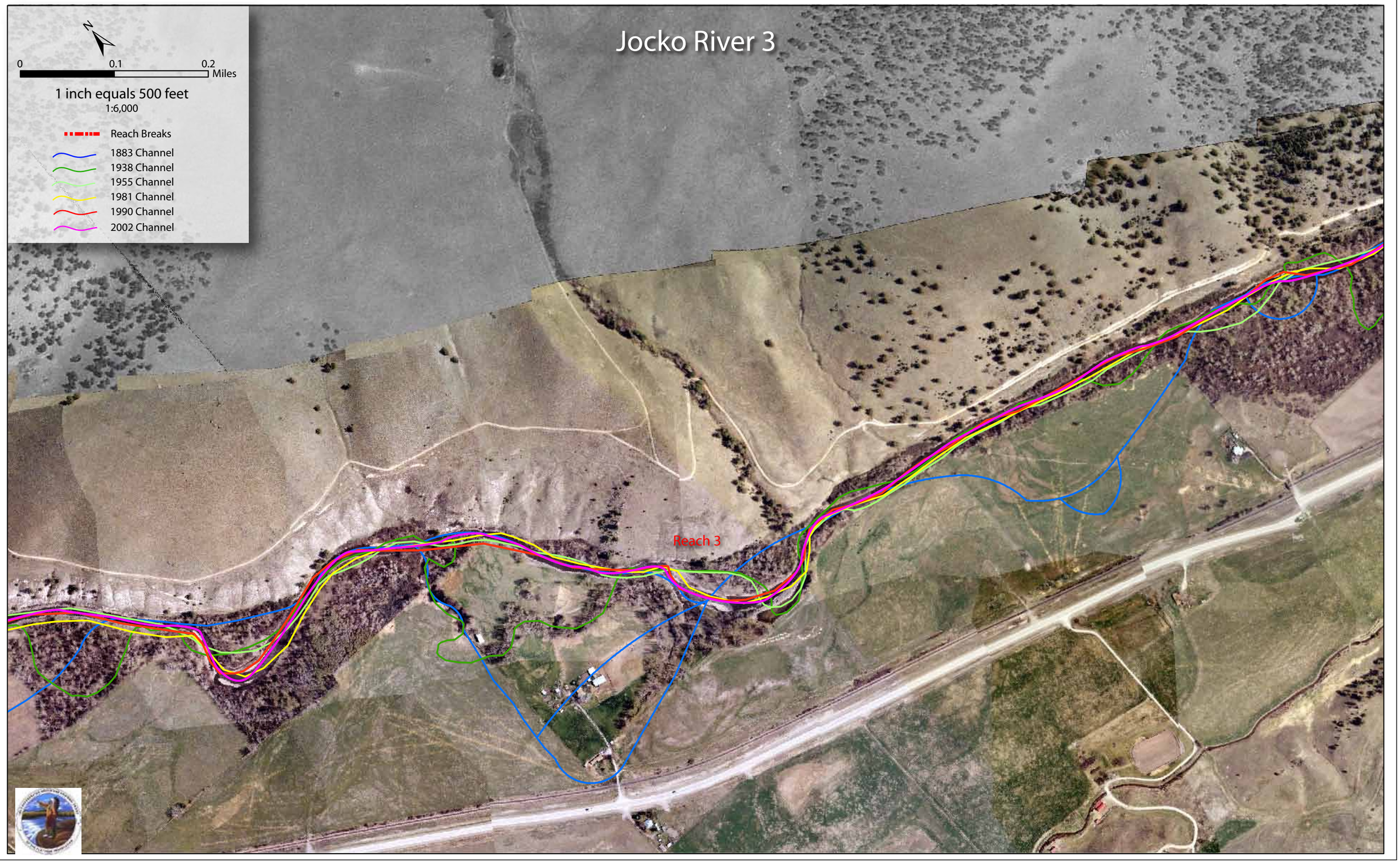
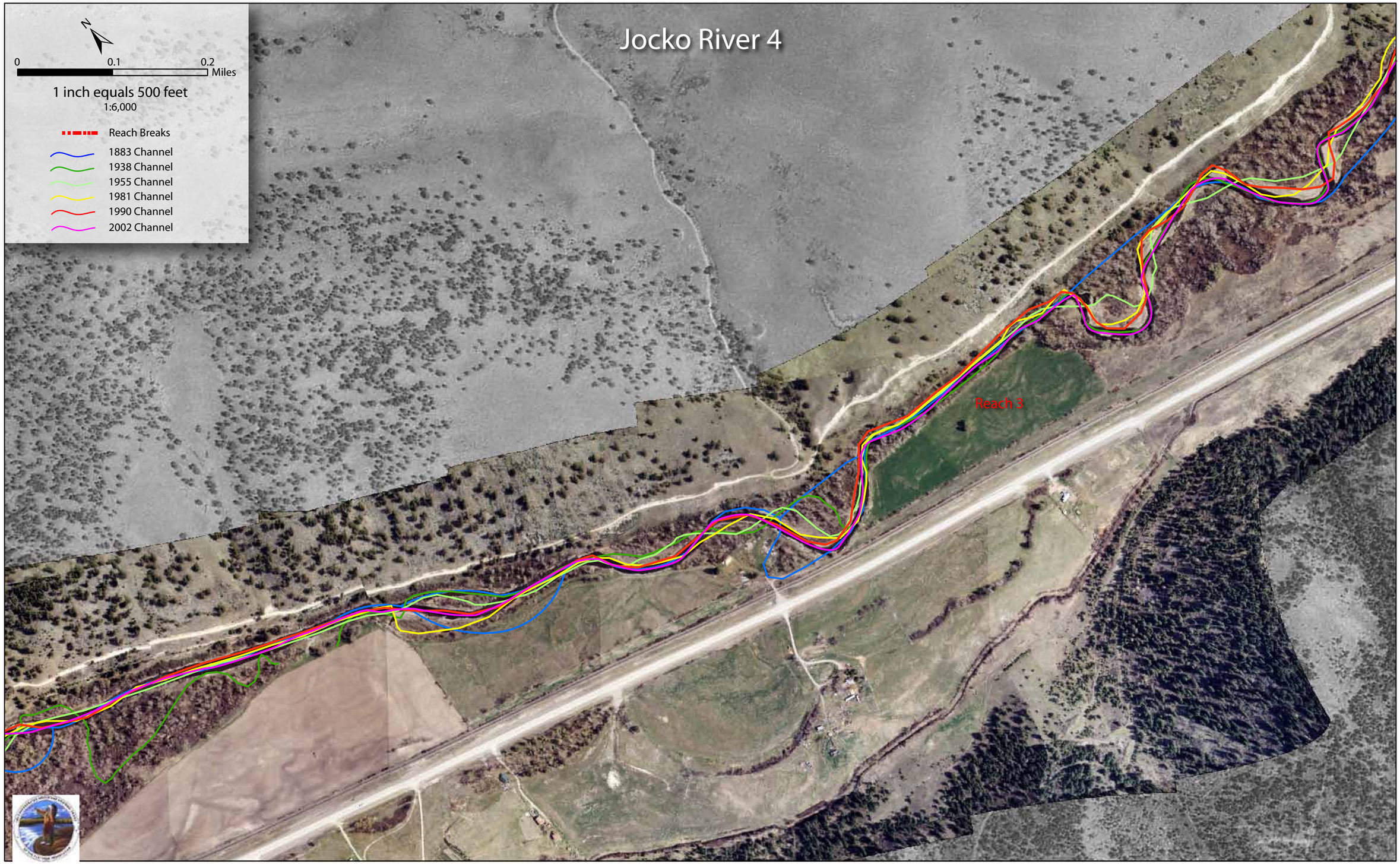
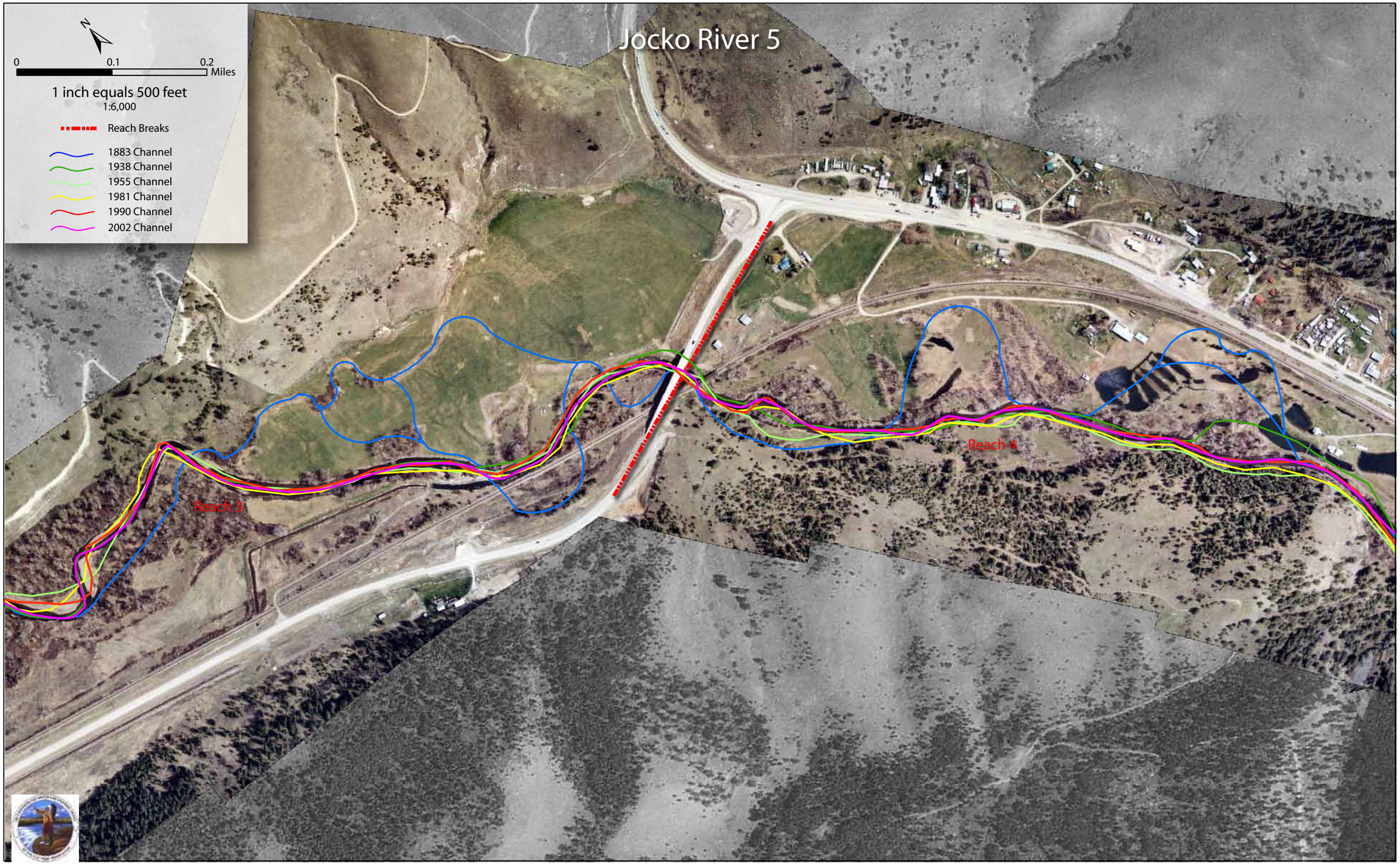
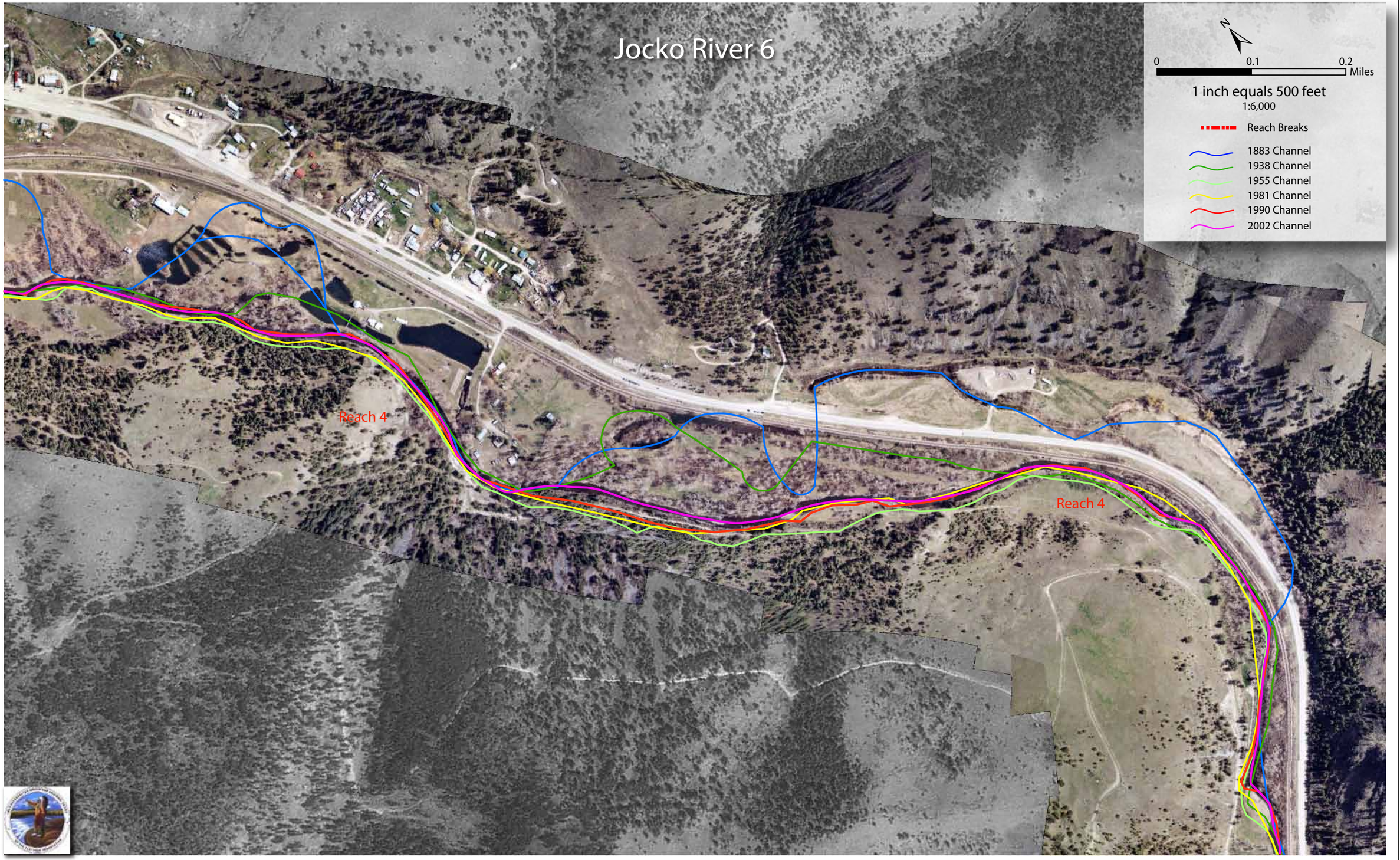

Jocko River 1
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 1
Reach 2
Reach 3

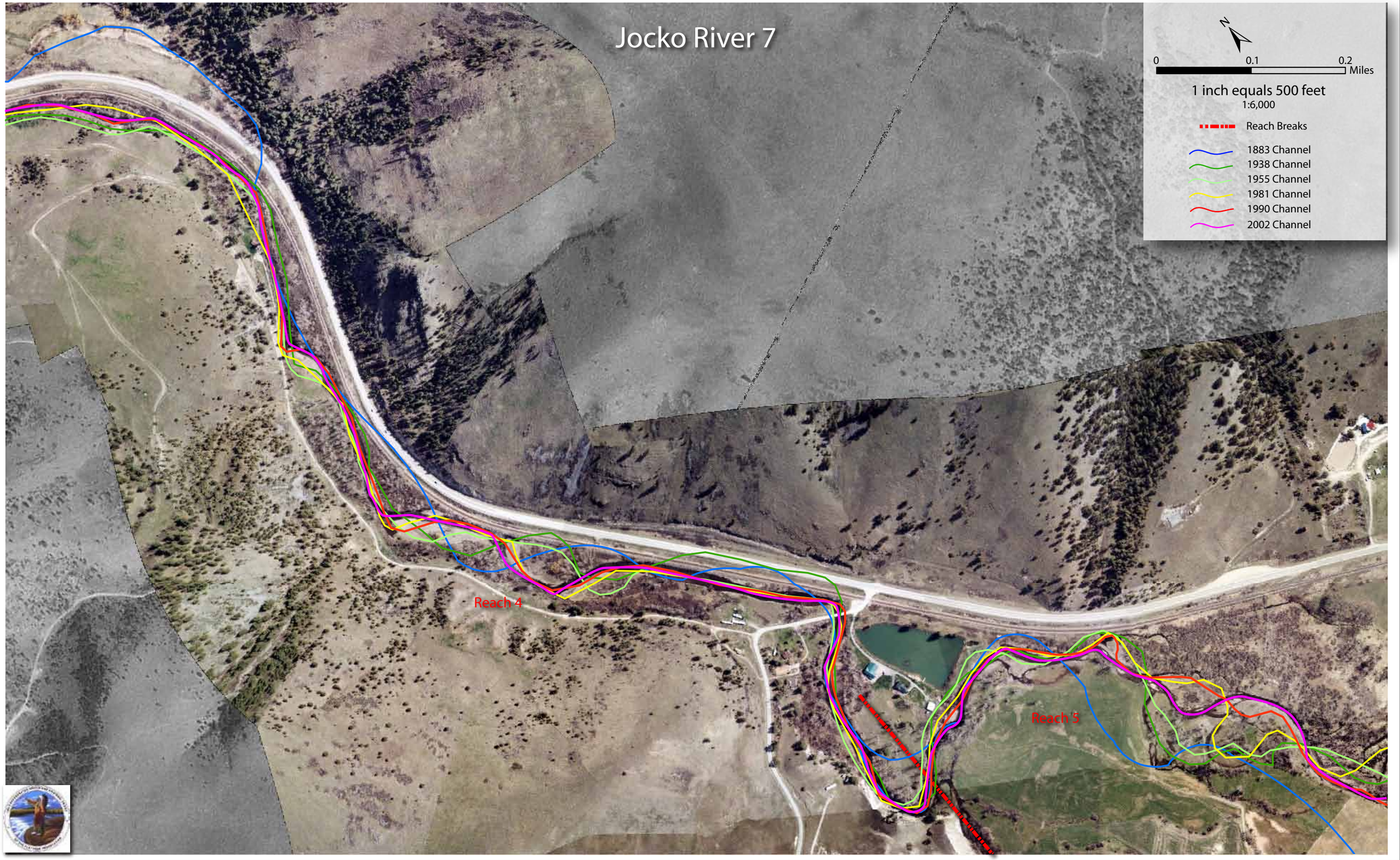

Jocko River 2
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 3


Jocko River 3
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 3

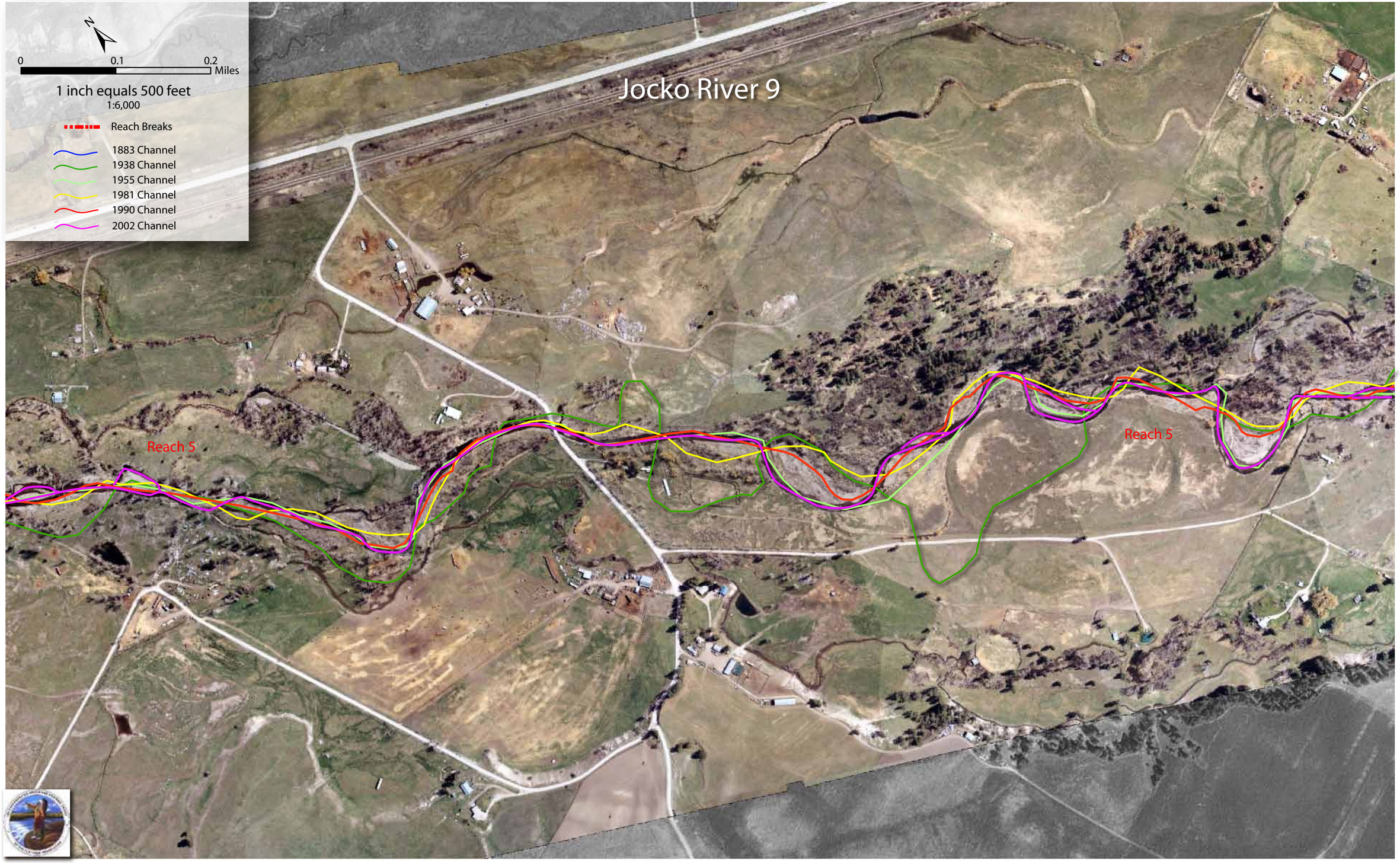

Jocko River 4
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 3

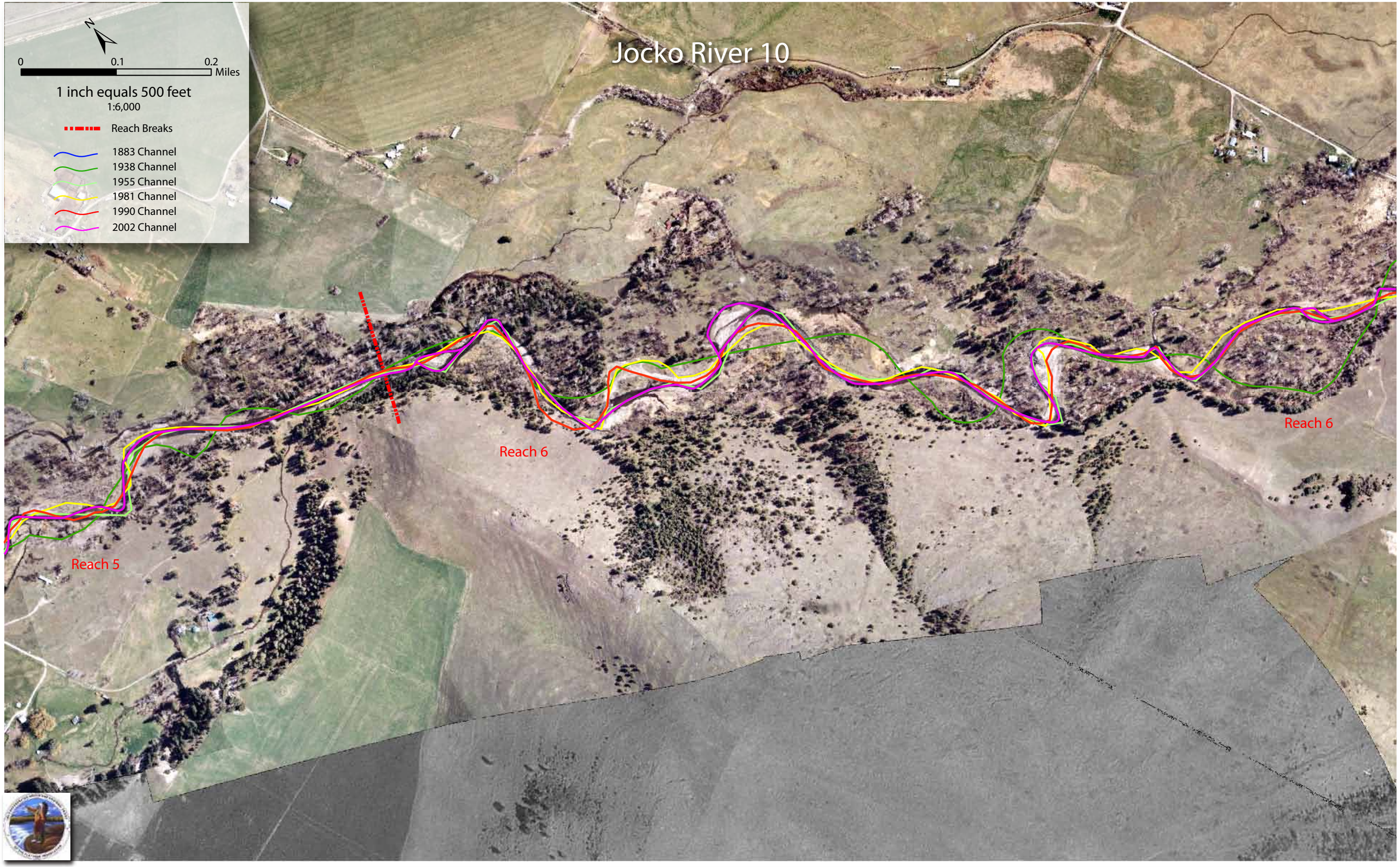

Jocko River 5
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 3
Reach 4

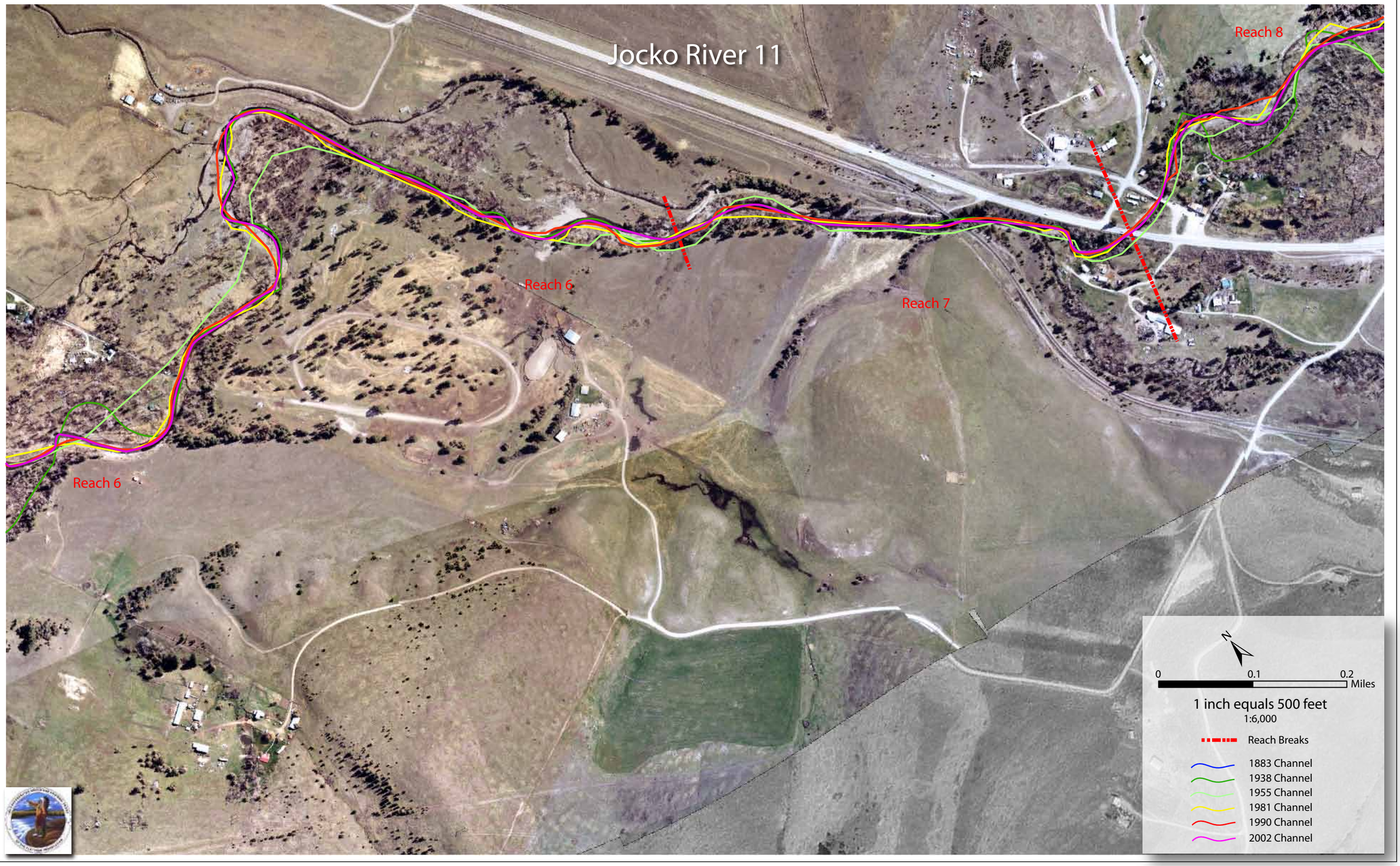

Jocko River 6
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 4
Reach 4

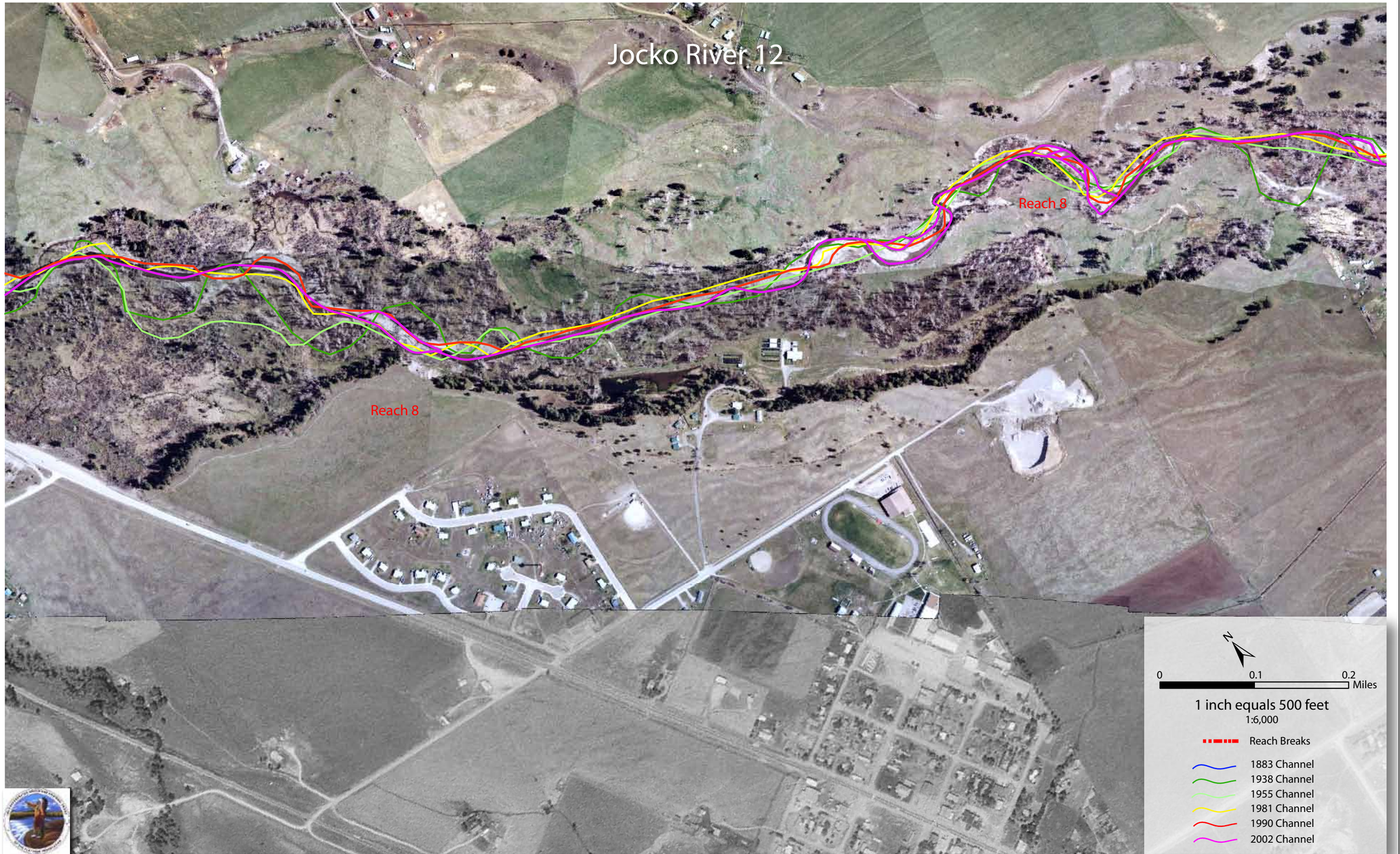

Jocko River 7
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 4
Reach 5

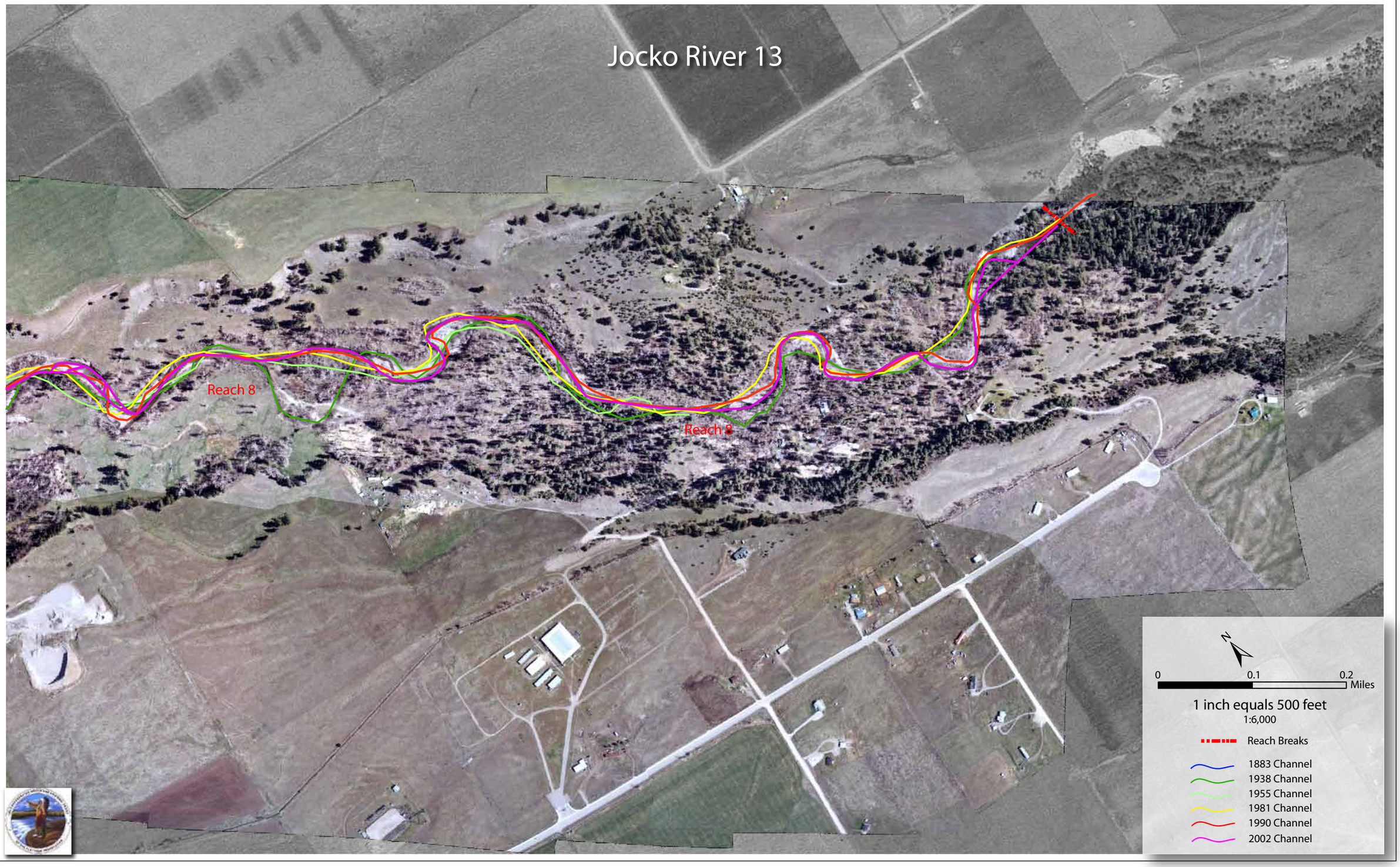
Jocko River 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 5


N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Jocko River 9
Reach 5
Reach 5


Jocko River 10
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel
Reach 5
Reach 6
Reach 6


Jocko River 11
Reach 6
Reach 6
Reach 7
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel


Jocko River 12
Reach 8
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel


Jocko River 13
Reach 8
Reach 8
N
0
0.1
0.2
Miles
1 inch equals 500 feet
1:6,000
Reach Breaks
1883 Channel
1938 Channel
1955 Channel
1981 Channel
1990 Channel
2002 Channel