



Supplement to Technical Report No. SRH-2012-16

Hydrology, Hydraulic, and Sediment Studies for Reach 4B, Eastside Bypass, and Mariposa Bypass Channel and Structural Improvements Project

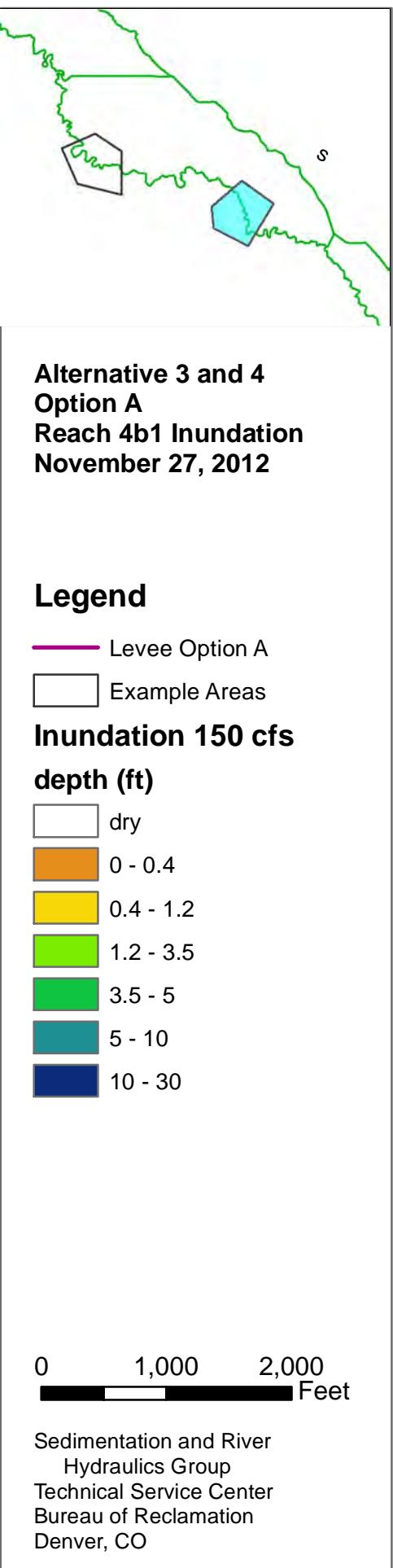
Appendix F

**San Joaquin River Restoration Project
Mid-Pacific Region**

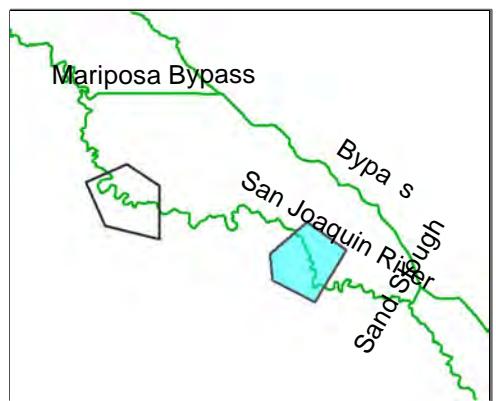
Mission Statements

The U.S. Department of the Interior protects America's natural resources and heritage, honors our cultures and tribal communities, and supplies the energy to power our future.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.







Alternative 3 and 4
Option A
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option A
- Example Areas

Inundation 475 cfs

depth (ft)

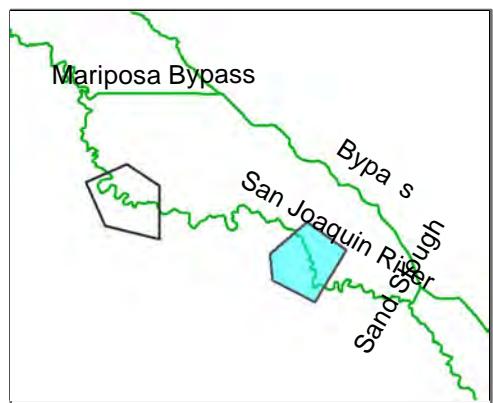
dry	White
0 - 0.4	Orange
0.4 - 1.2	Yellow
1.2 - 3.5	Light Green
3.5 - 5	Dark Green
5 - 10	Teal
10 - 30	Dark Blue

0 1,000 2,000 Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 3 and 4
Option A
Reach 4b1 Inundation
November 27, 2012**



Alternative 3 and 4
Option A
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option A
- Example Areas

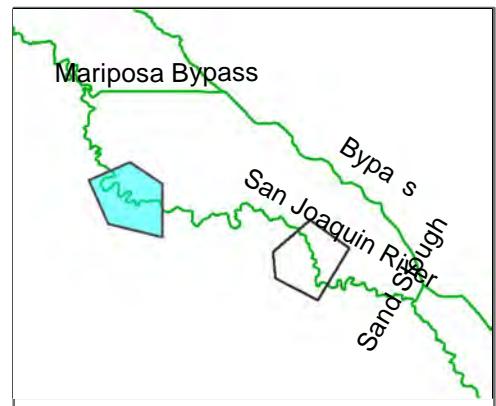
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000 Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



Alternative 3 and 4
Option A
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option A
- Example Areas

Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





**Alternative 3 and 4
Option A
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option A
- Example Areas

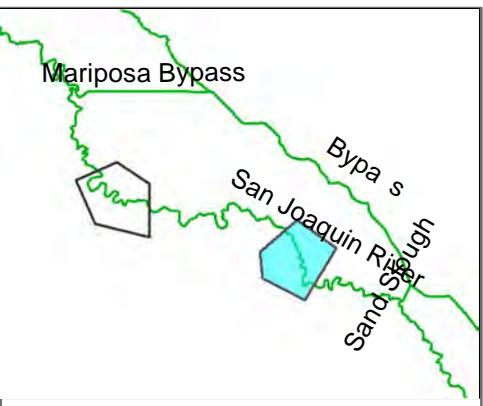
Inundation 1200 cfs

depth (ft)

- white dry
- orange 0 - 0.4
- yellow 0.4 - 1.2
- light green 1.2 - 3.5
- medium green 3.5 - 5
- teal 5 - 10
- dark blue 10 - 30

0 1,000 2,000
— Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option B
- Example Areas

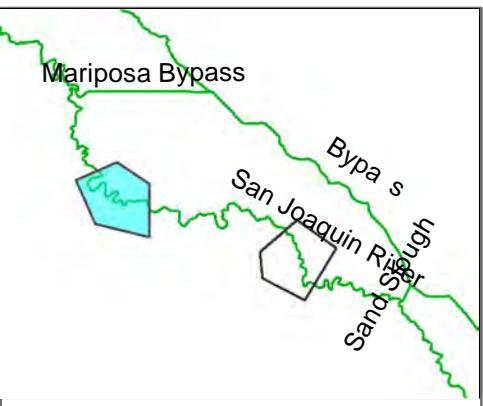
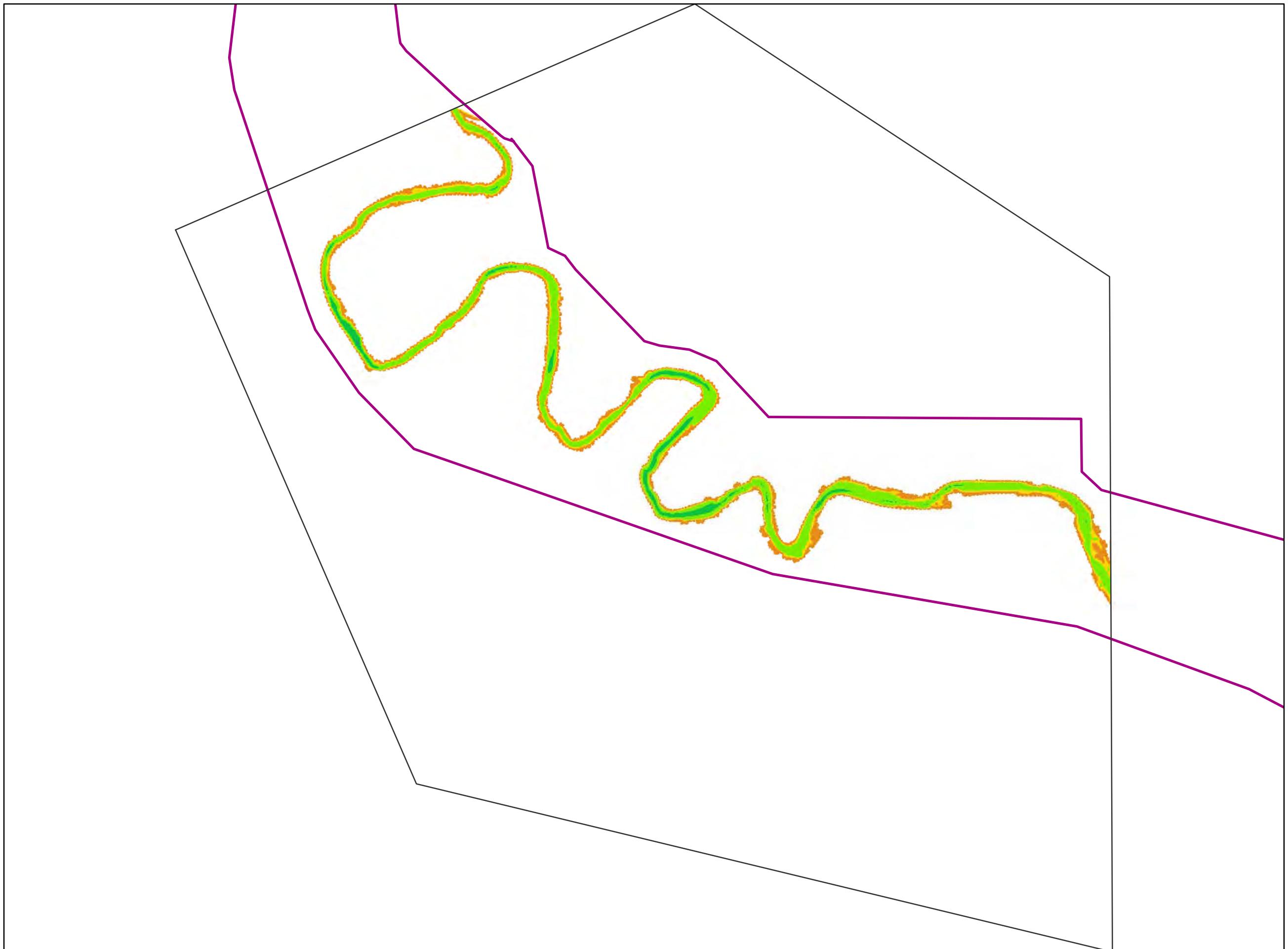
Inundation 150 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

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Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option B
- Example Areas

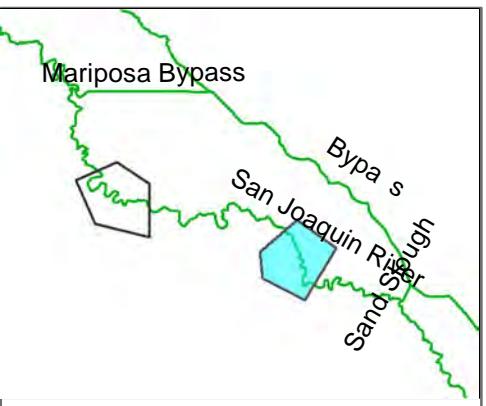
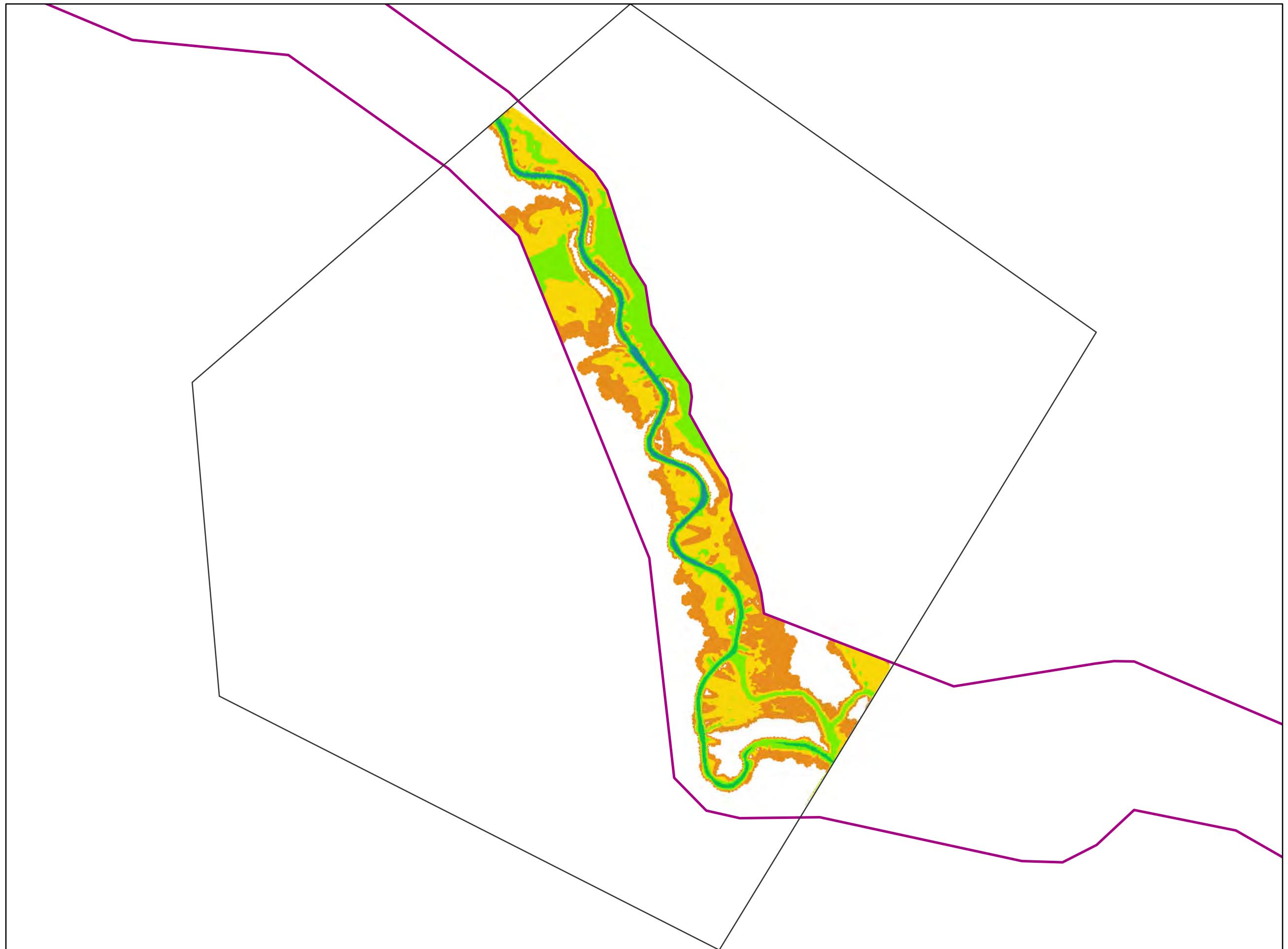
Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Technical Service Center
Bureau of Reclamation
Denver, CO



Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012

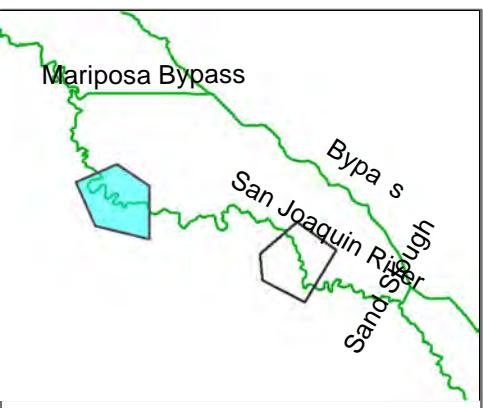
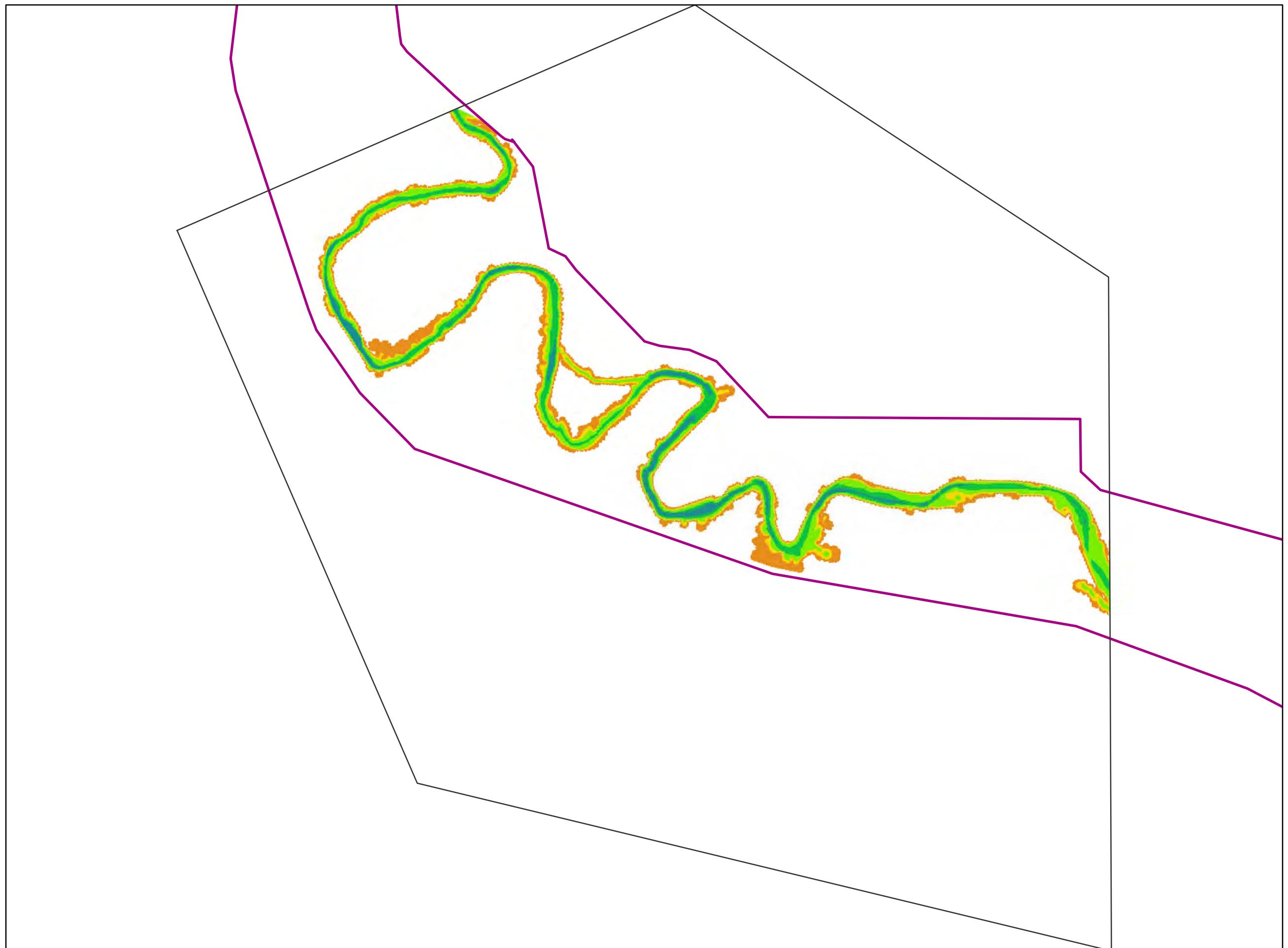
Legend

- Levee Option B
- Example Areas

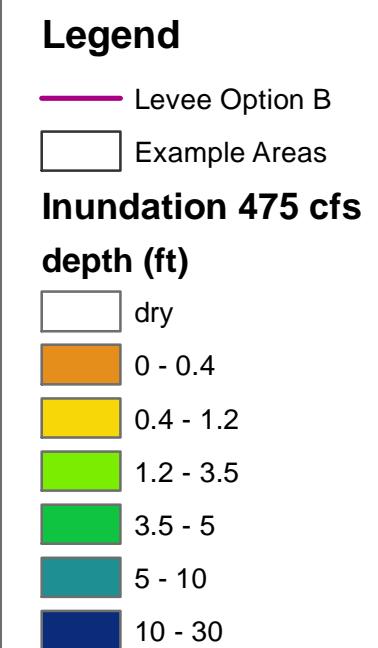
Inundation 475 cfs

depth (ft)

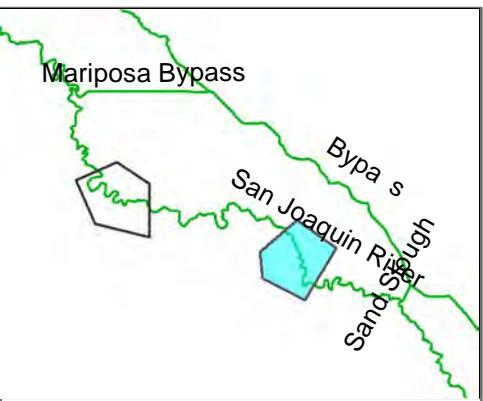
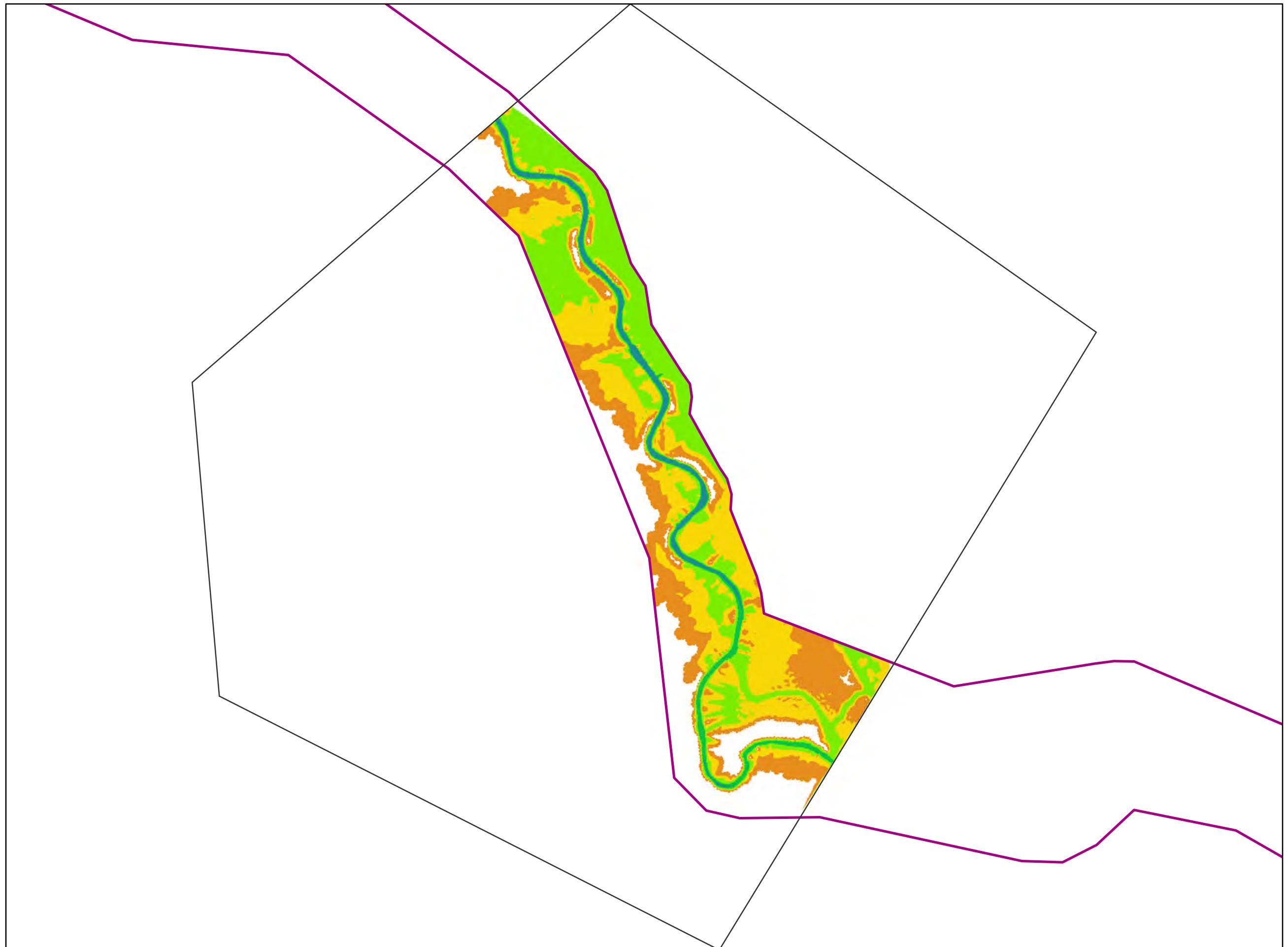
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30



**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**



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Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option B
- Example Areas

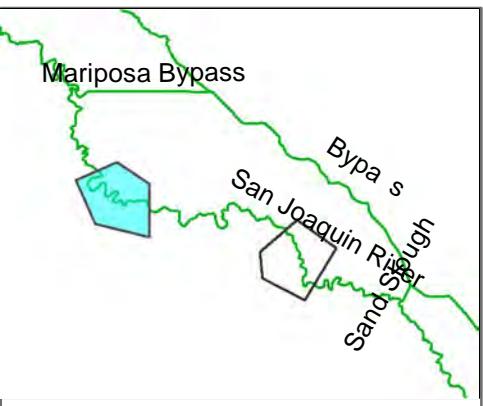
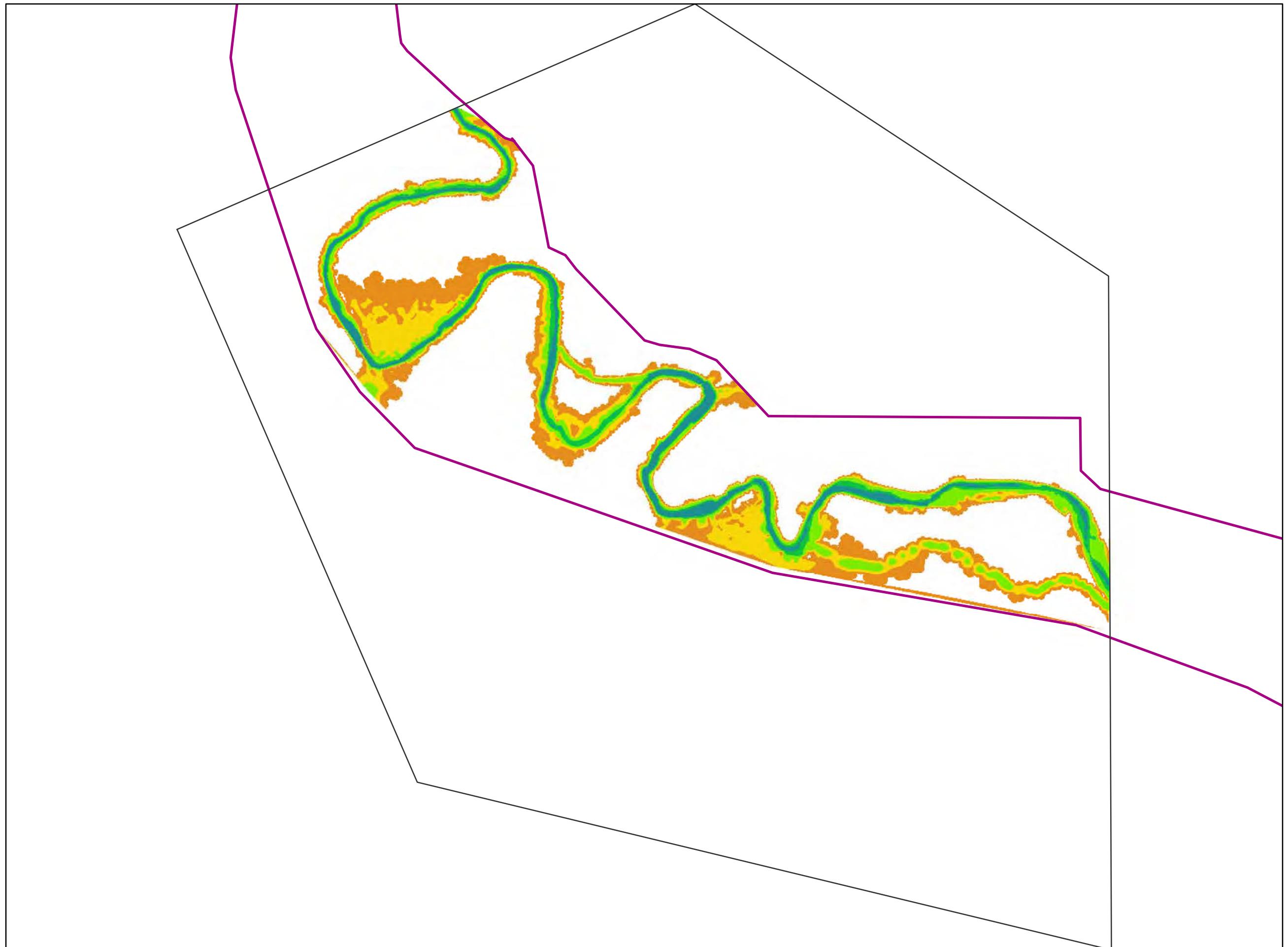
Inundation 700 cfs

depth (ft)

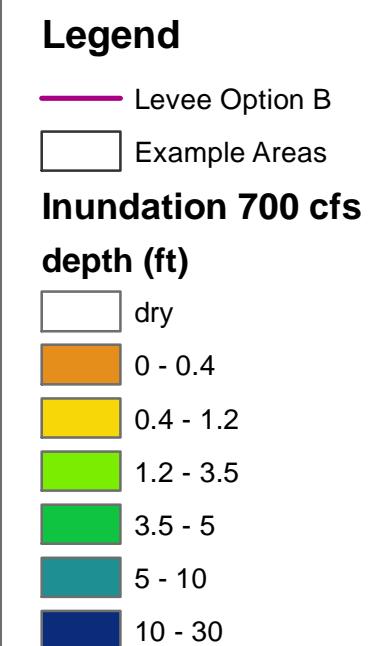
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000 Feet

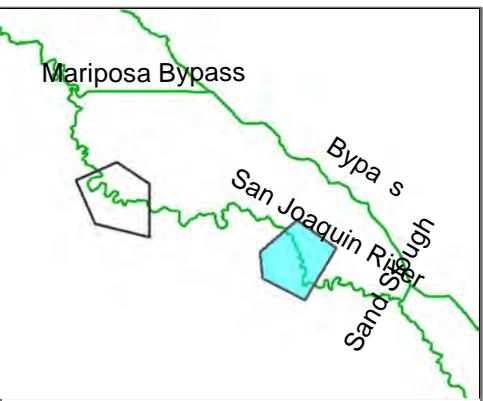
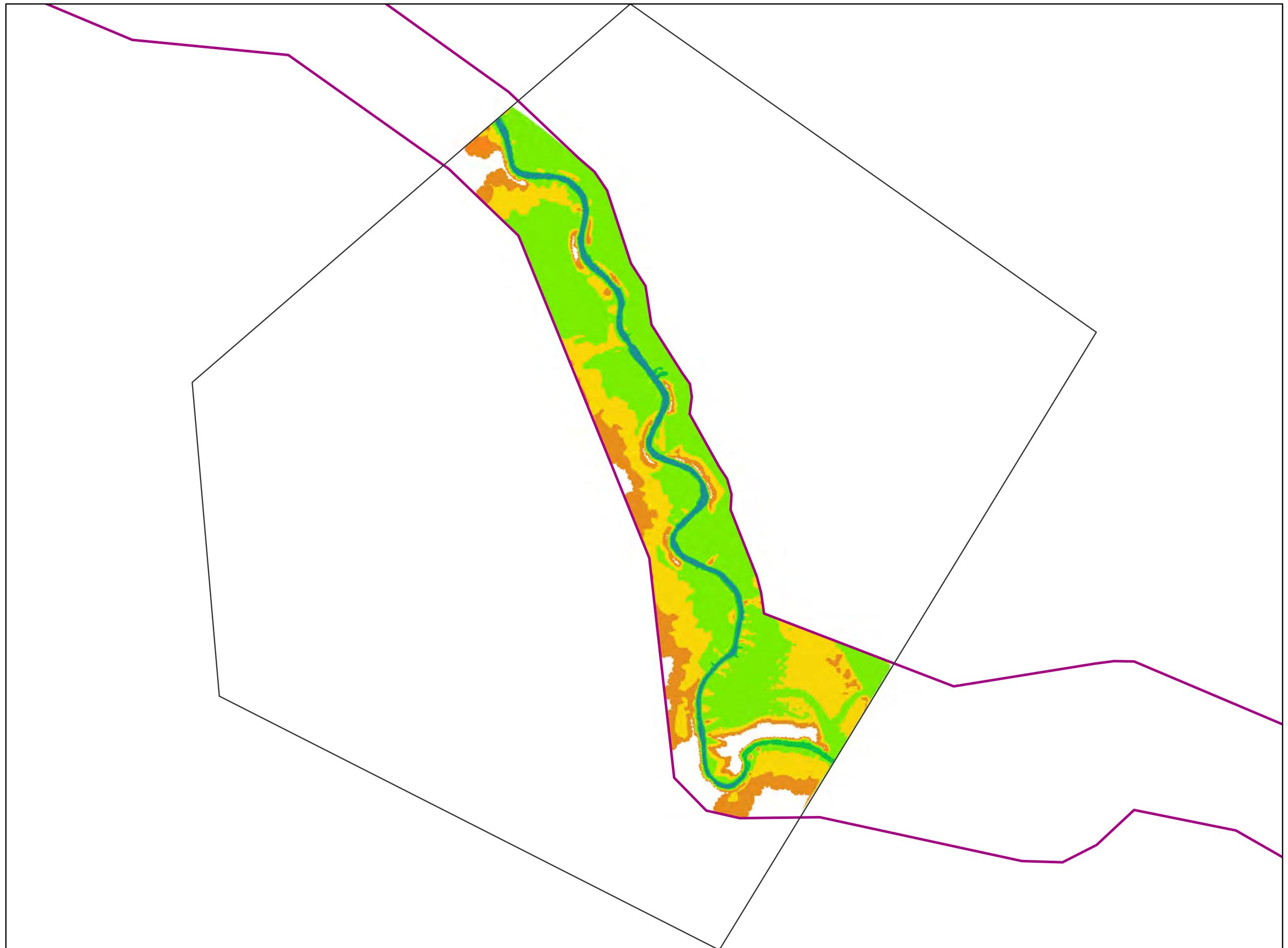
Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**



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**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option B
- Example Areas

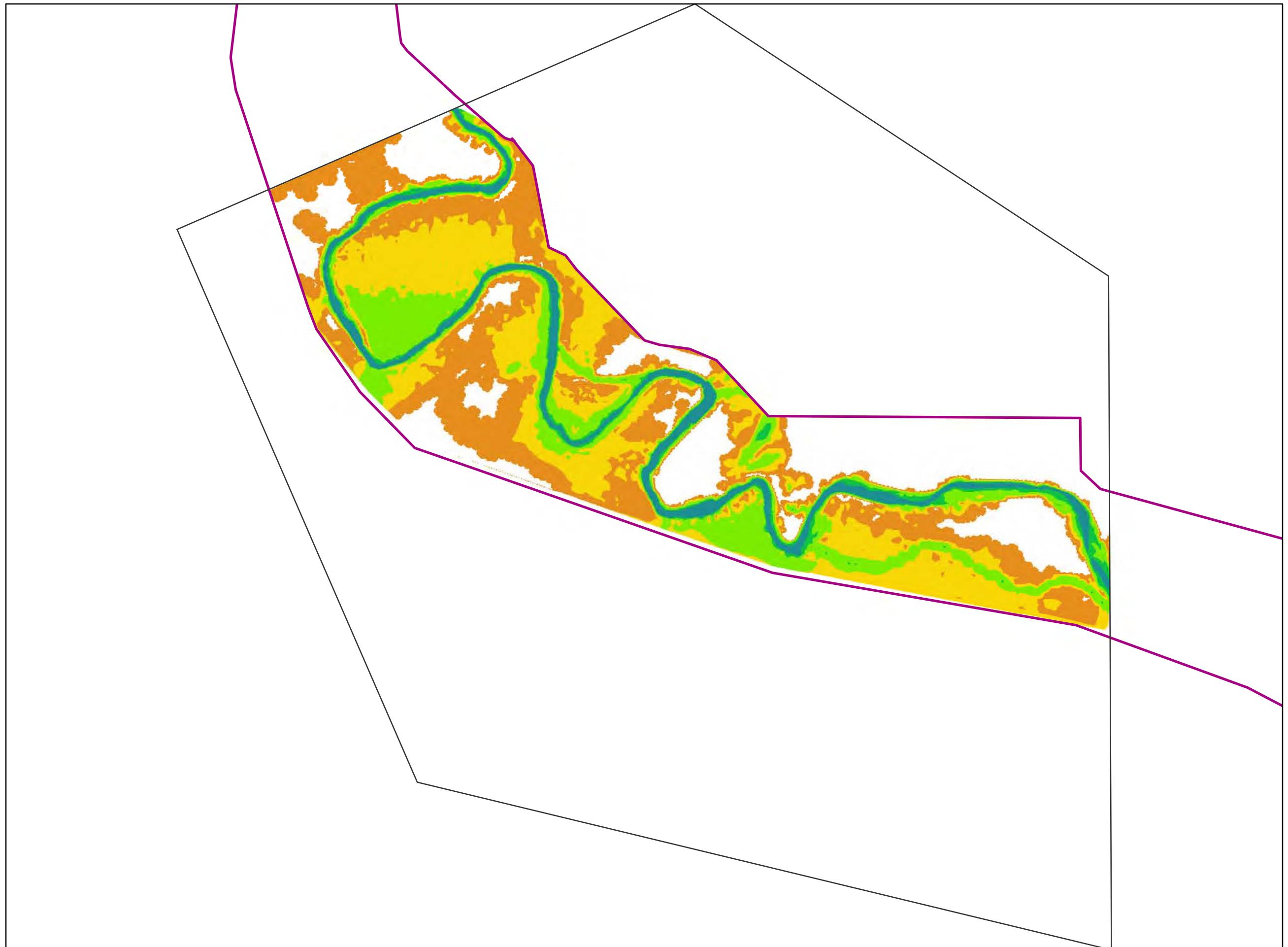
Inundation 1200 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

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**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option B
- Example Areas

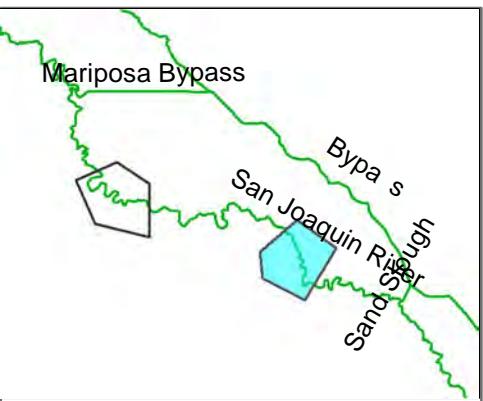
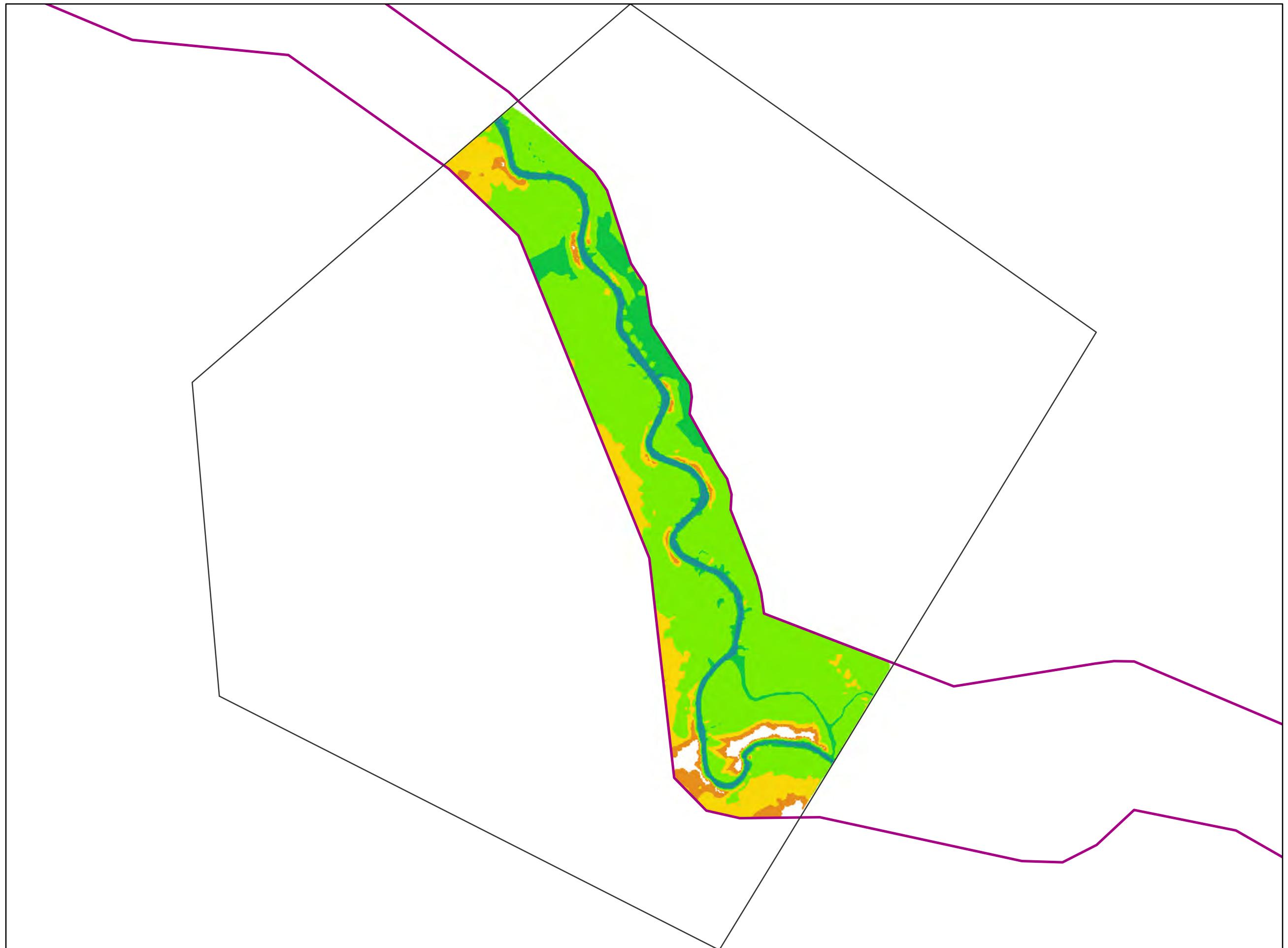
Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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**Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option B
- Example Areas

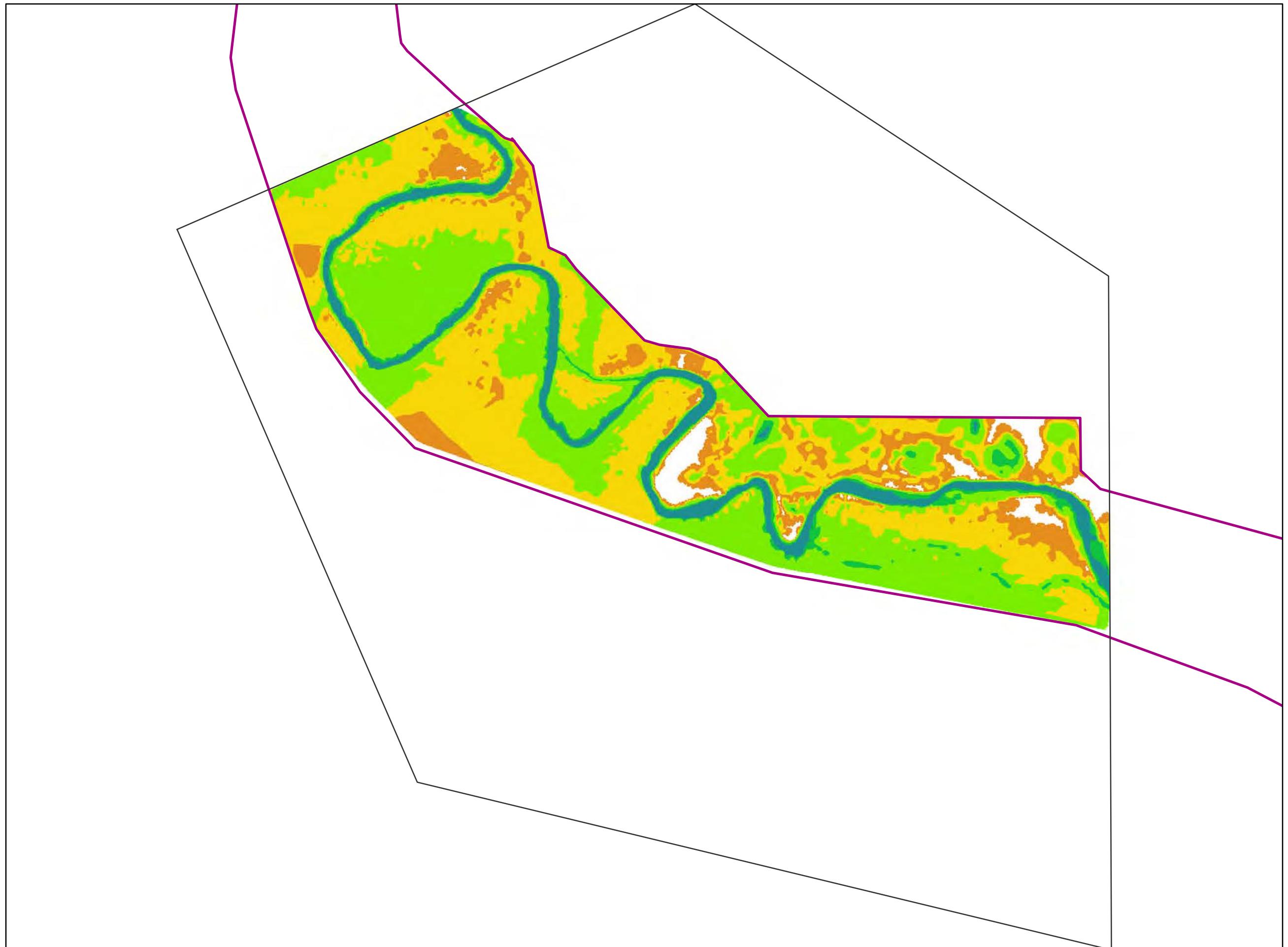
Inundation 2200 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

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Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option B
- Example Areas

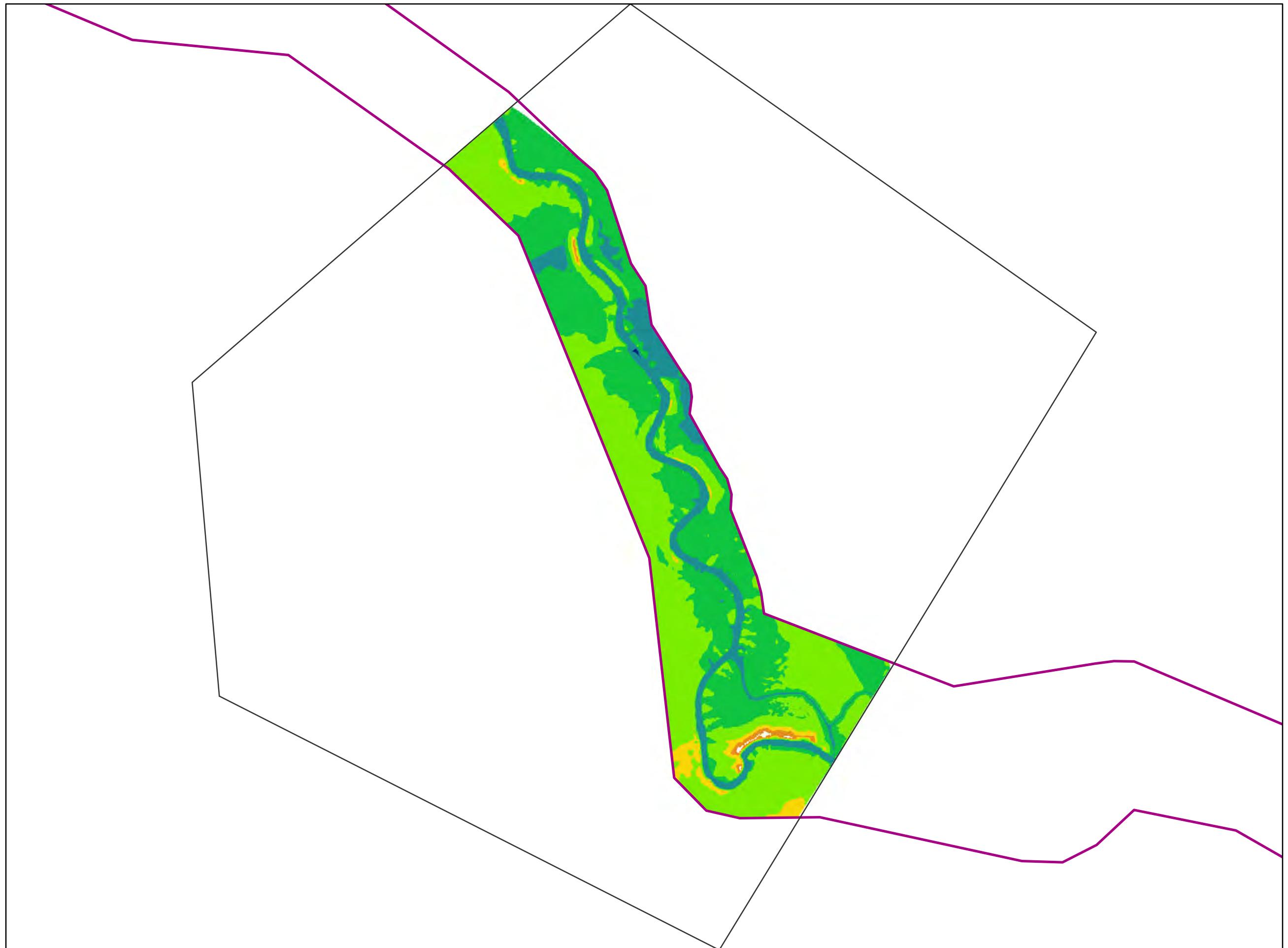
Inundation 2200 cfs

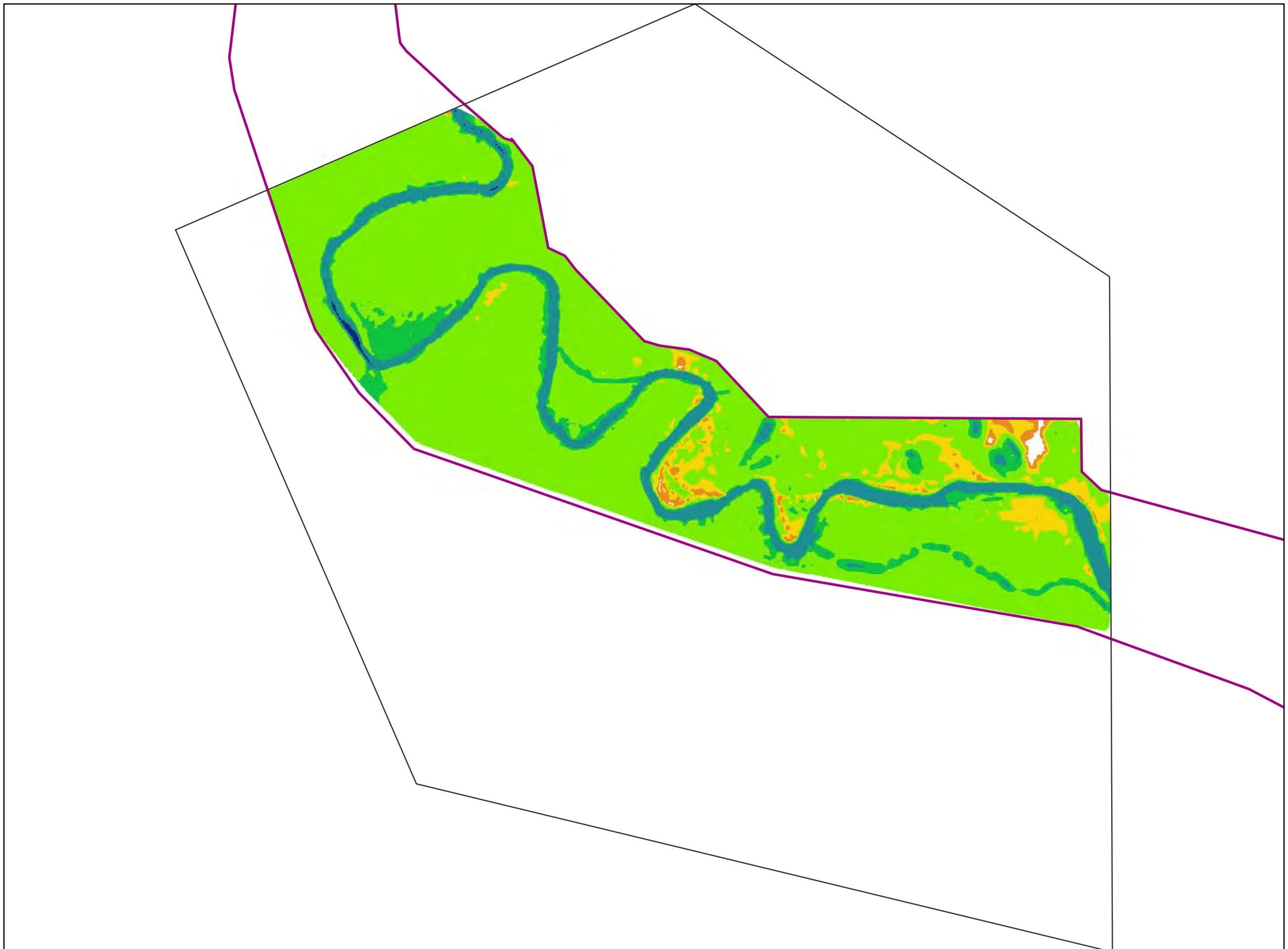
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Alternative 1
Option B
Reach 4b1 Inundation
November 27, 2012

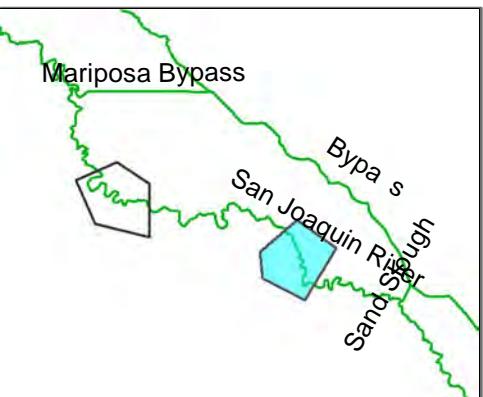
Legend

- Levee Option B
- Example Areas

Inundation 4500 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option C
- Example Areas

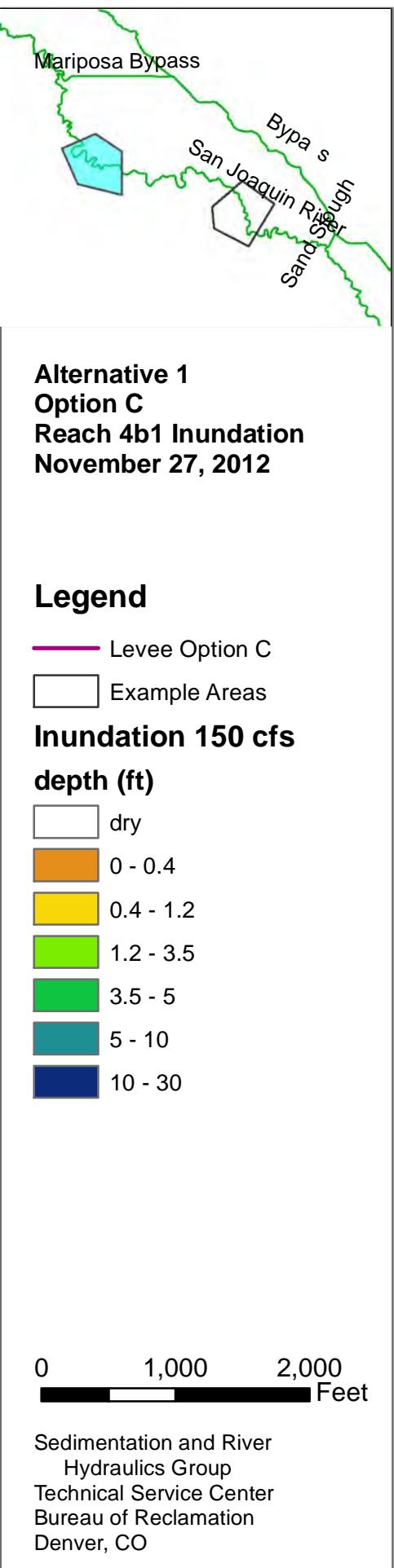
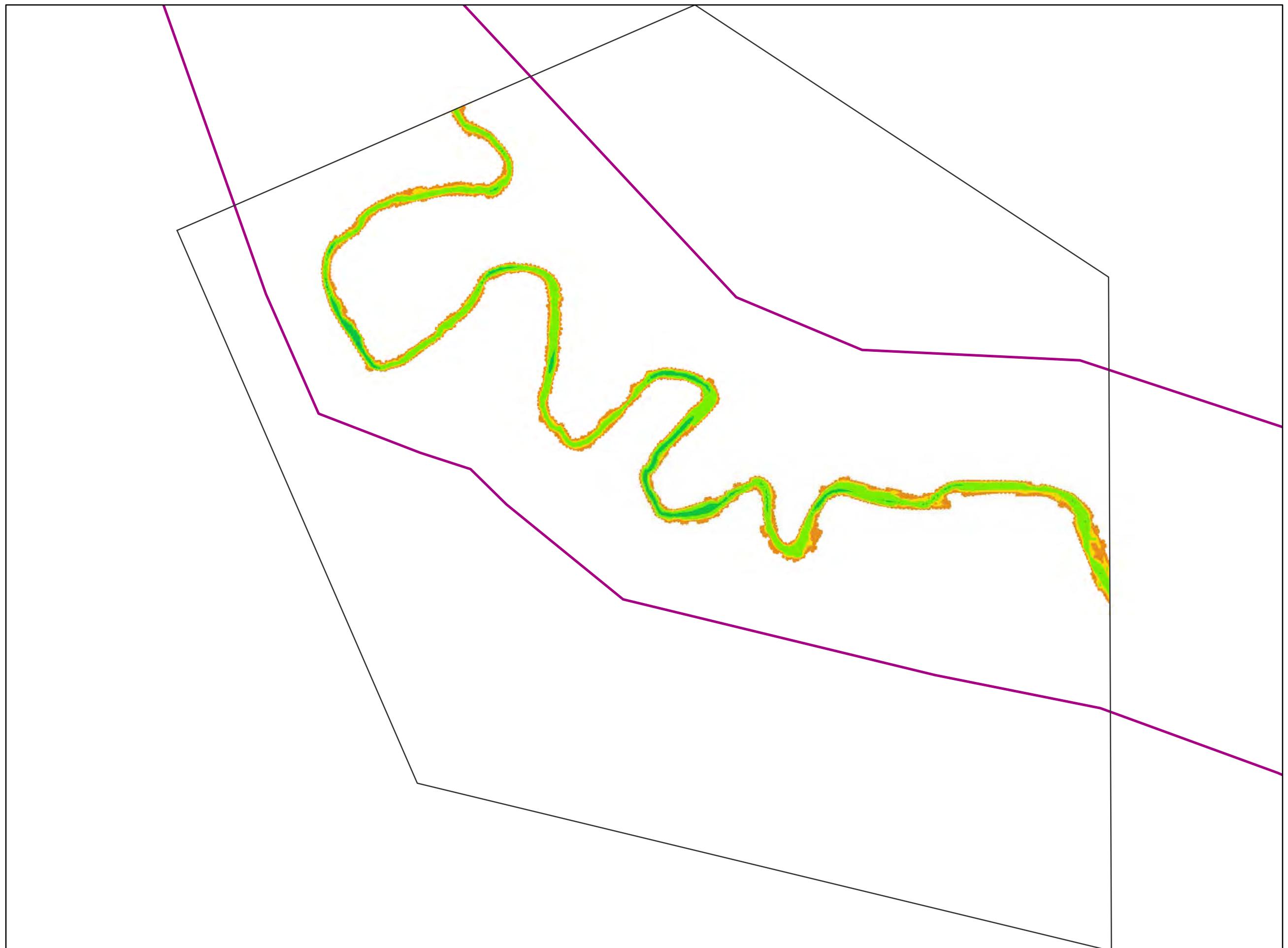
Inundation 150 cfs

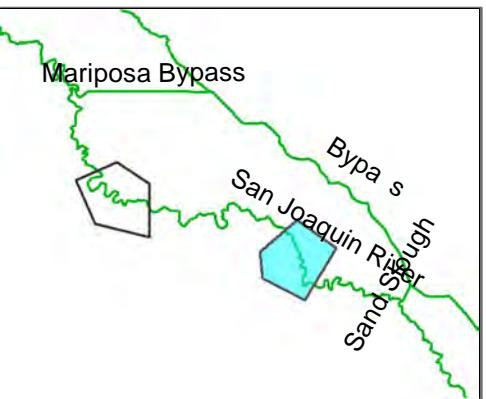
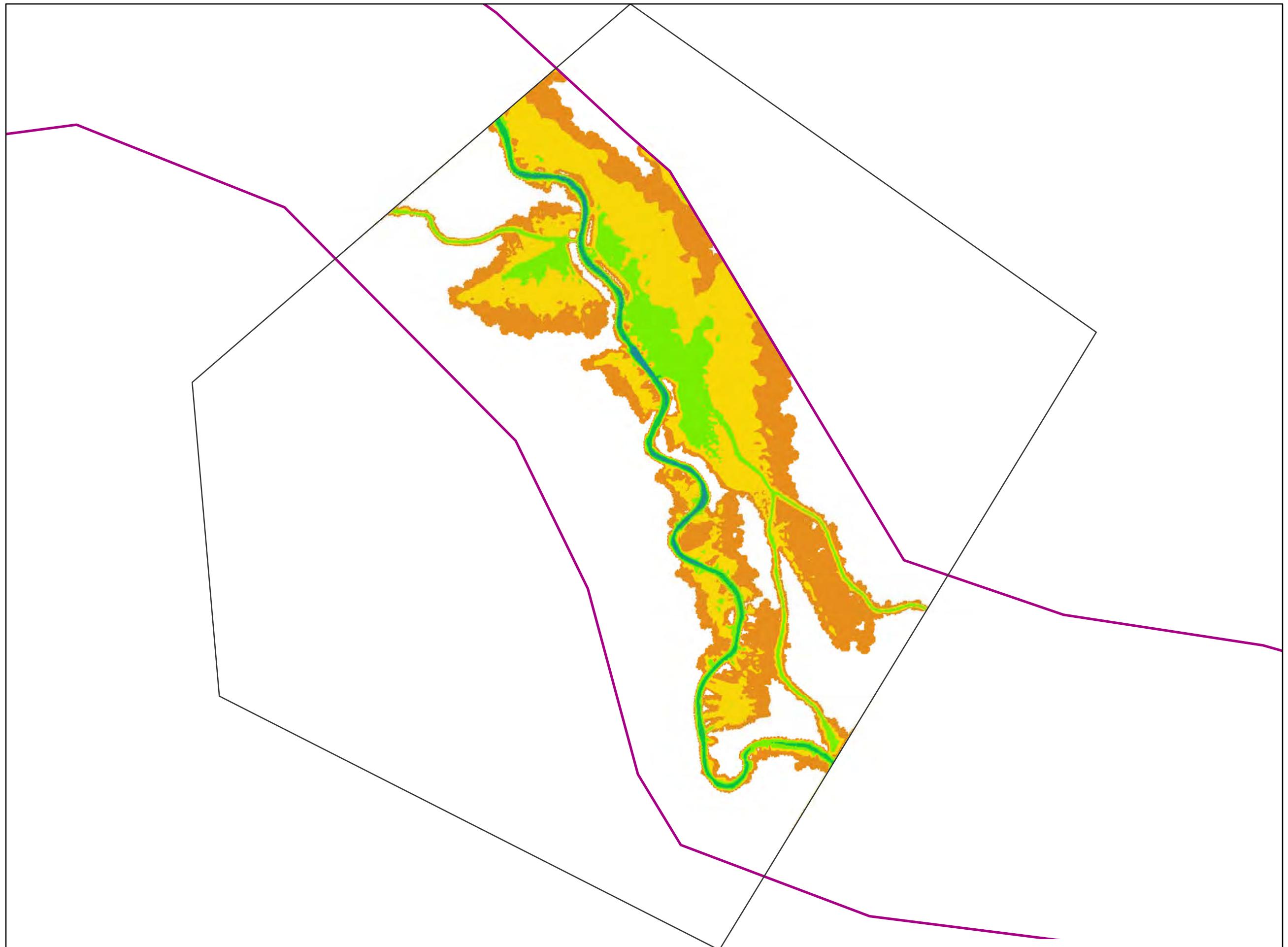
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option C
- Example Areas

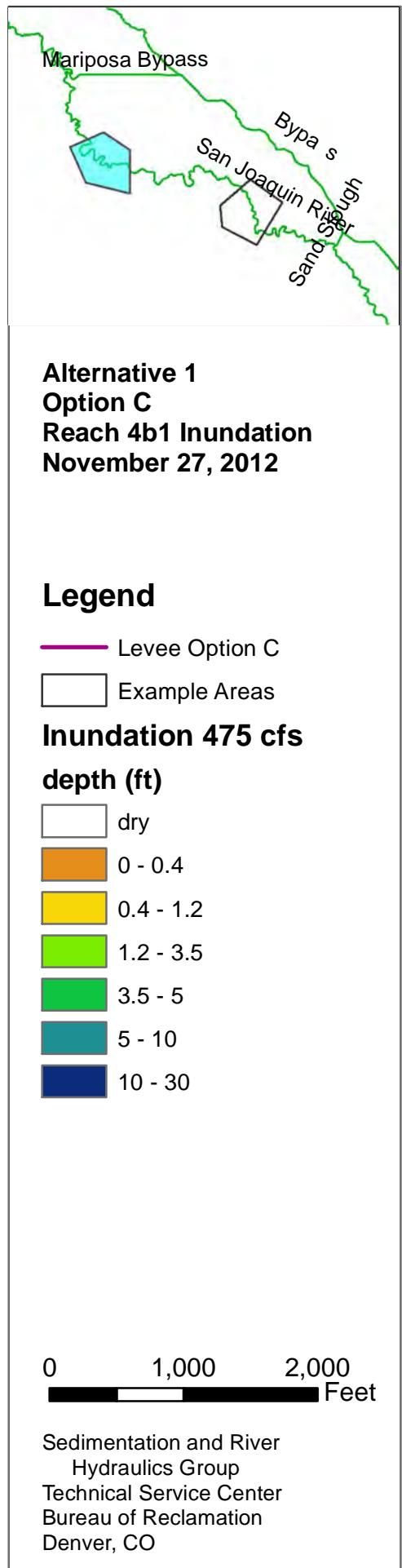
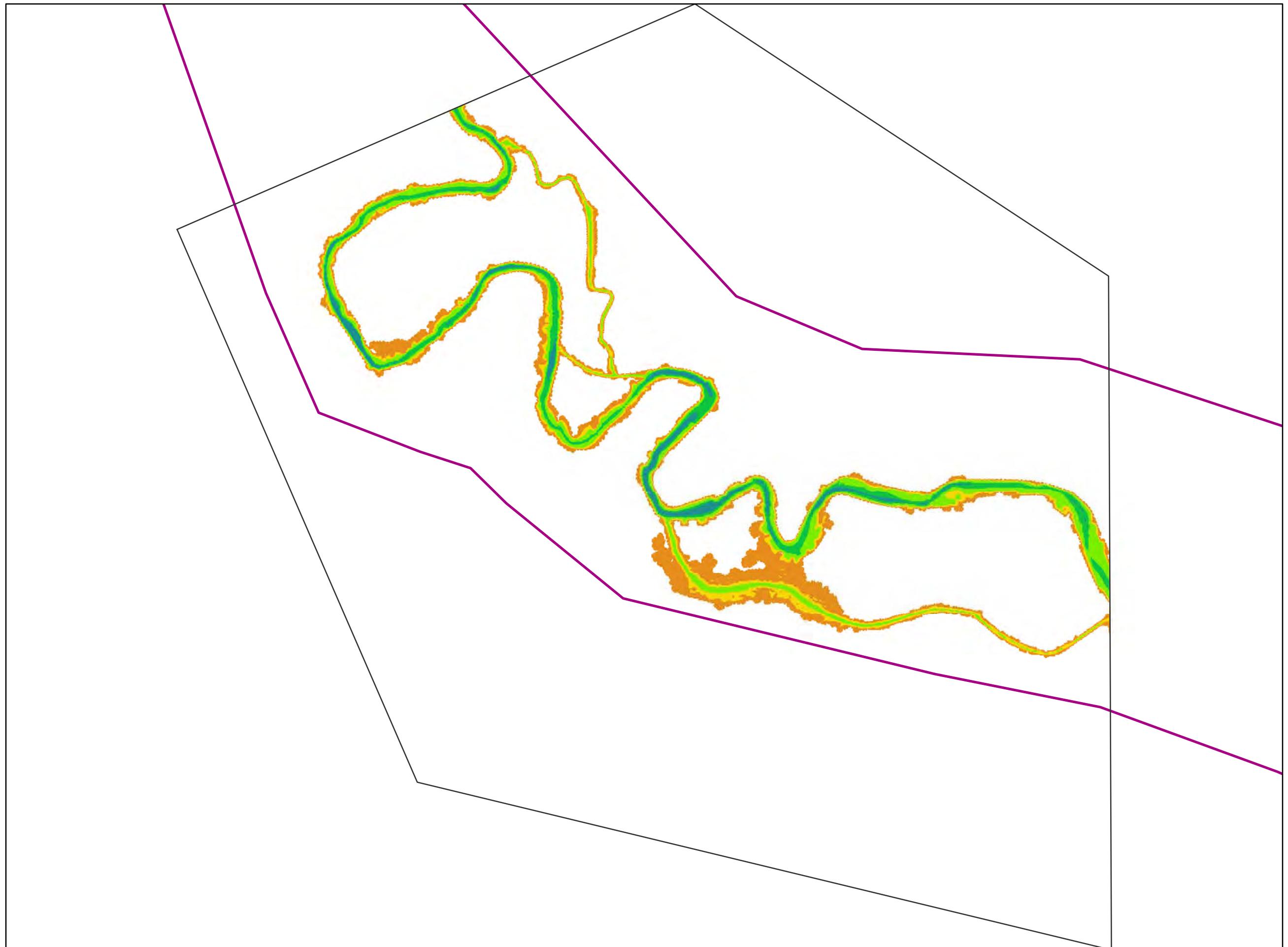
Inundation 475 cfs

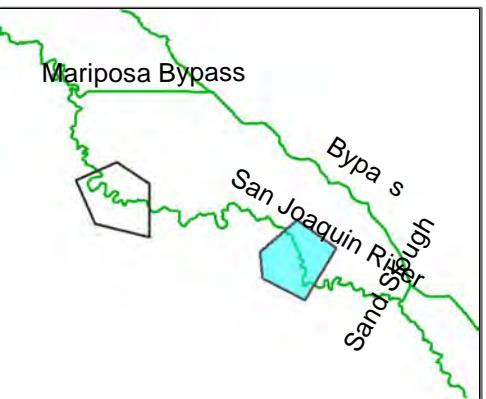
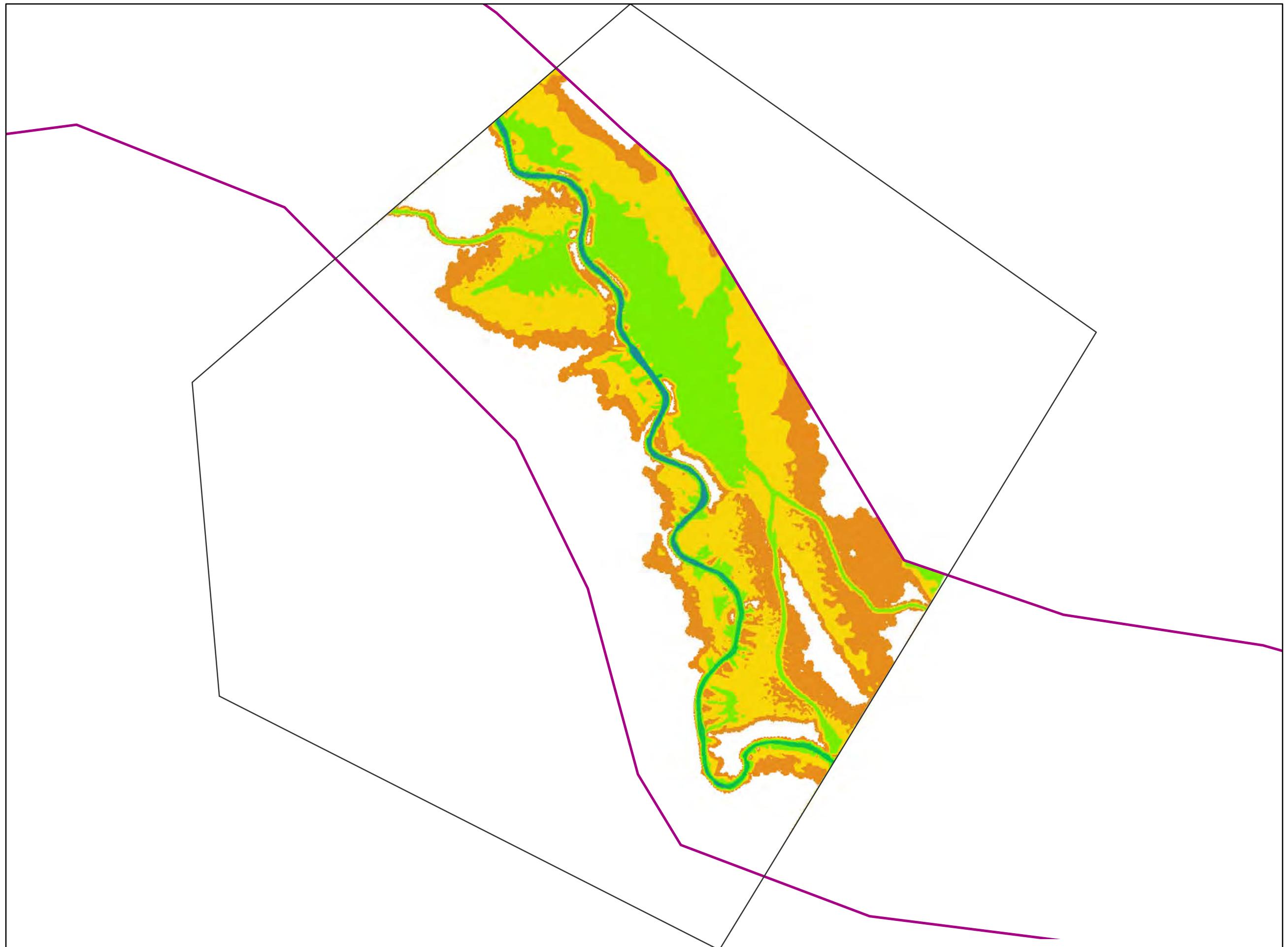
depth (ft)

dry	white
0 - 0.4	orange
0.4 - 1.2	yellow
1.2 - 3.5	light green
3.5 - 5	medium green
5 - 10	teal
10 - 30	dark blue

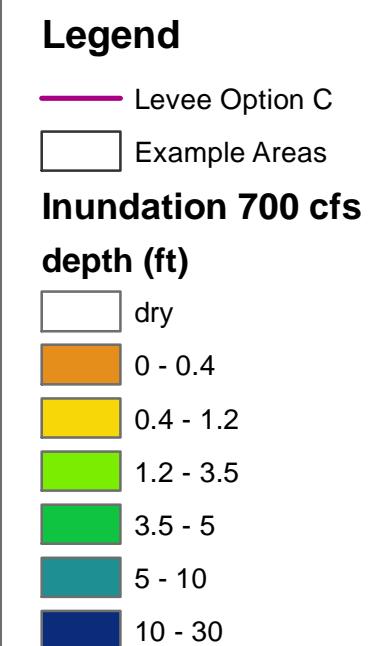
0 1,000 2,000
Feet

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Technical Service Center
Bureau of Reclamation
Denver, CO

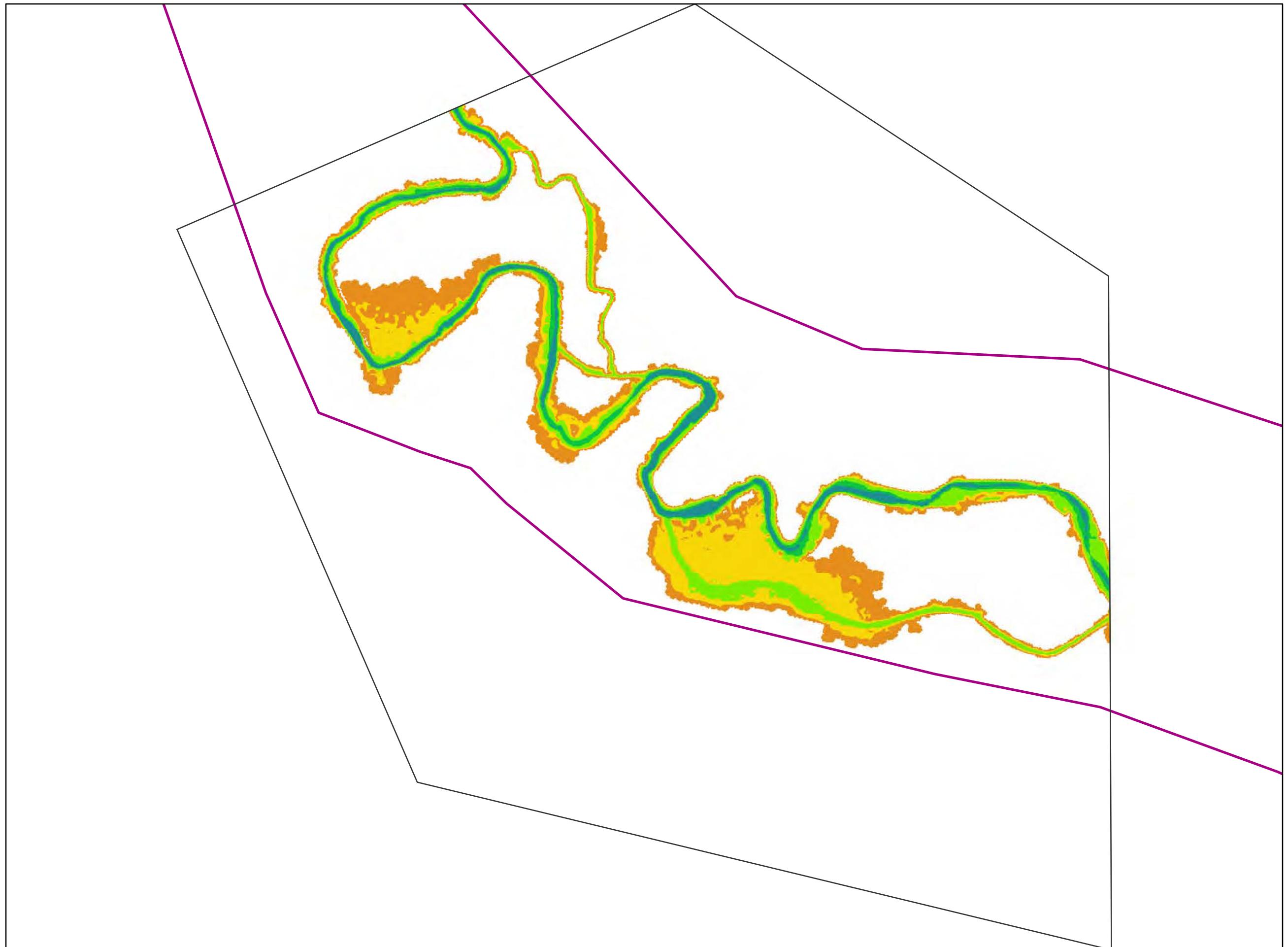




**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**



Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option C
- Example Areas

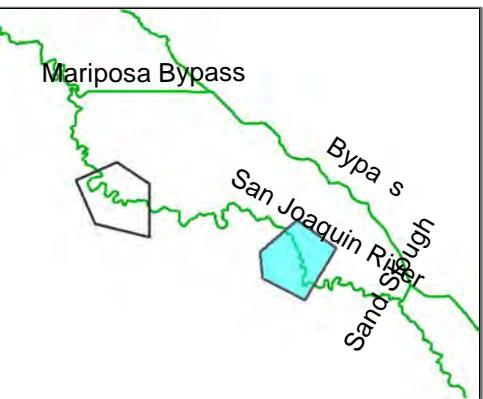
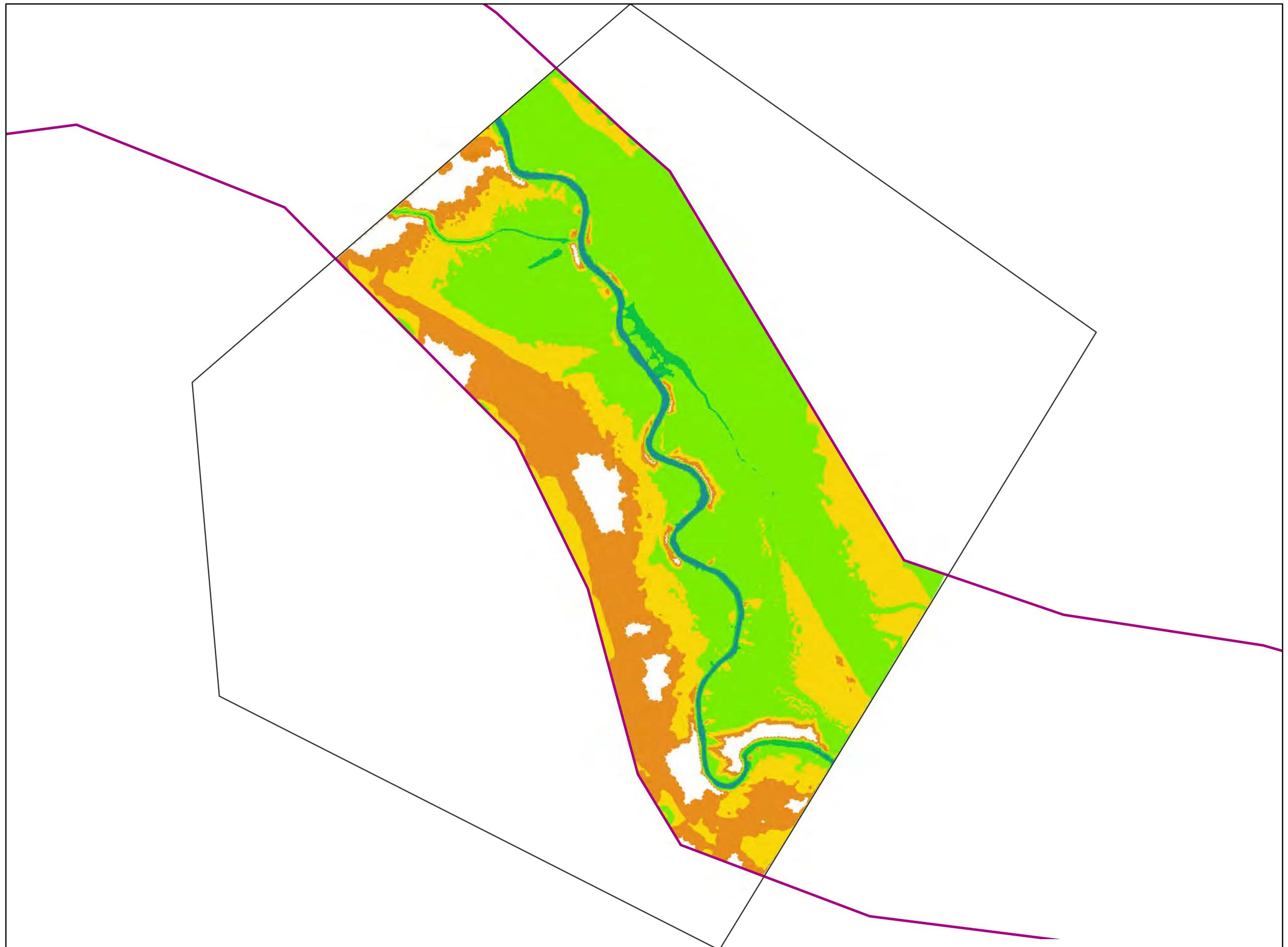
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option C
- Example Areas

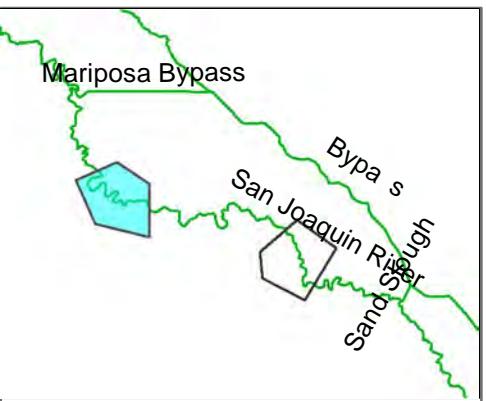
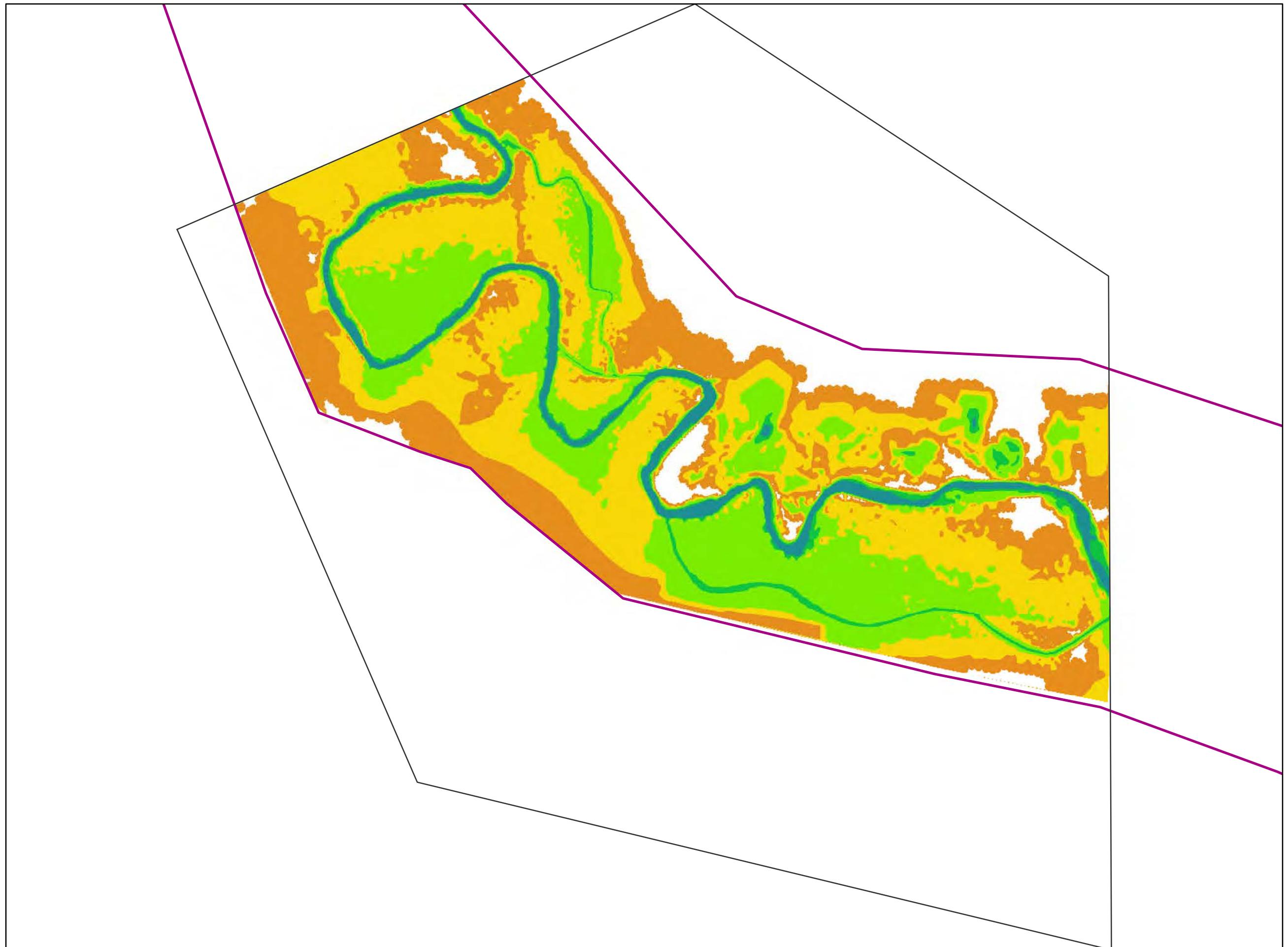
Inundation 2200 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

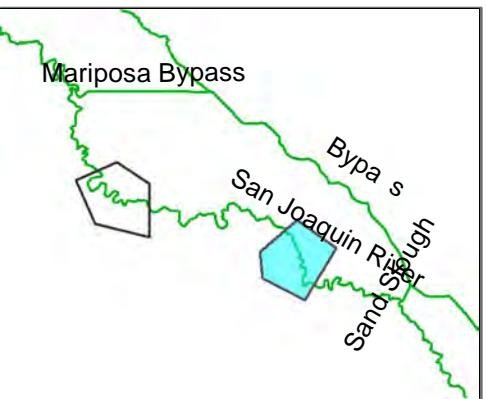
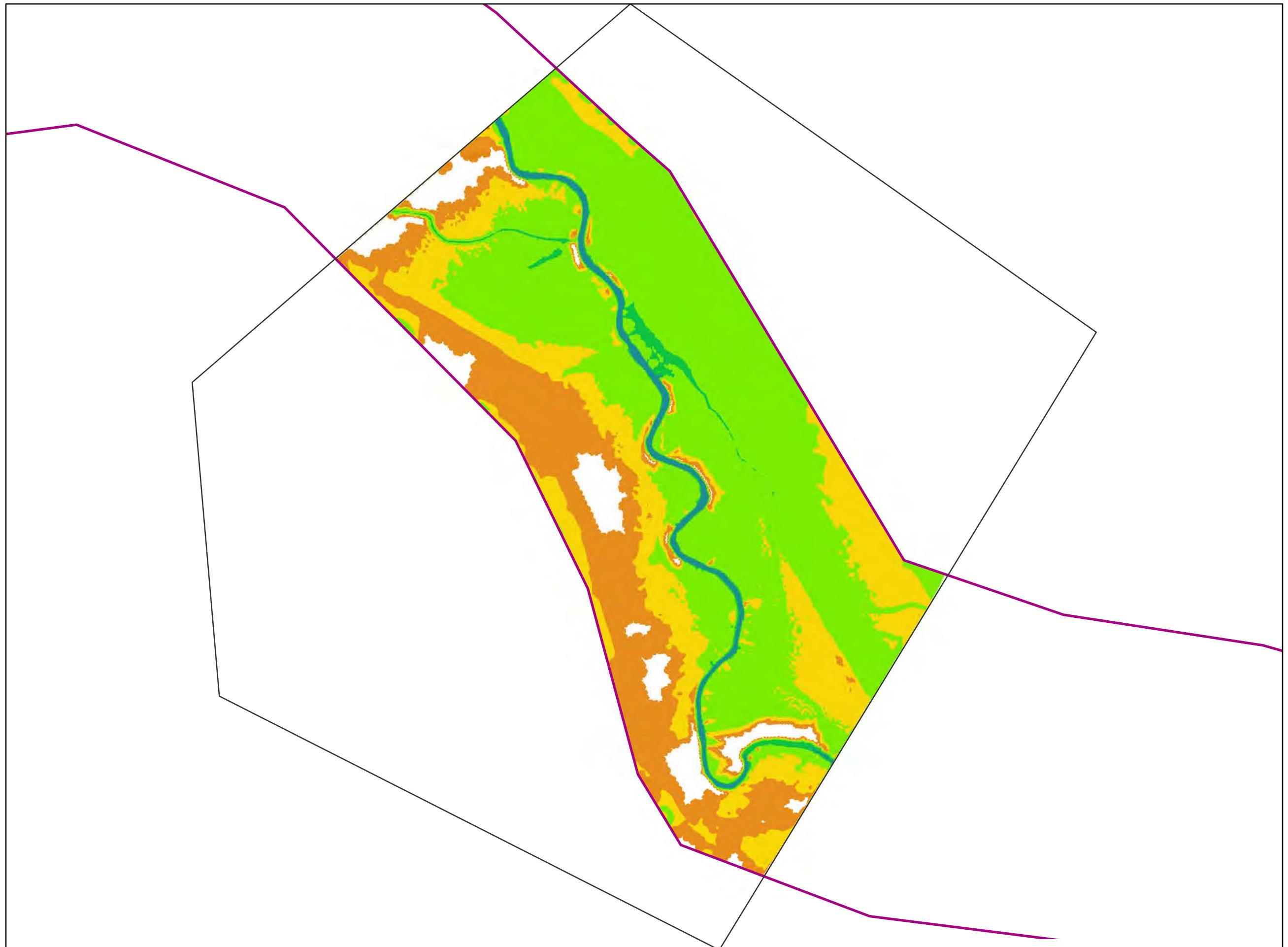
Legend

- Levee Option C
- Example Areas

Inundation 2200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option C
- Example Areas

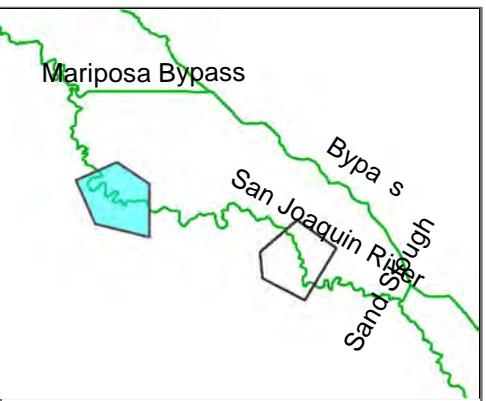
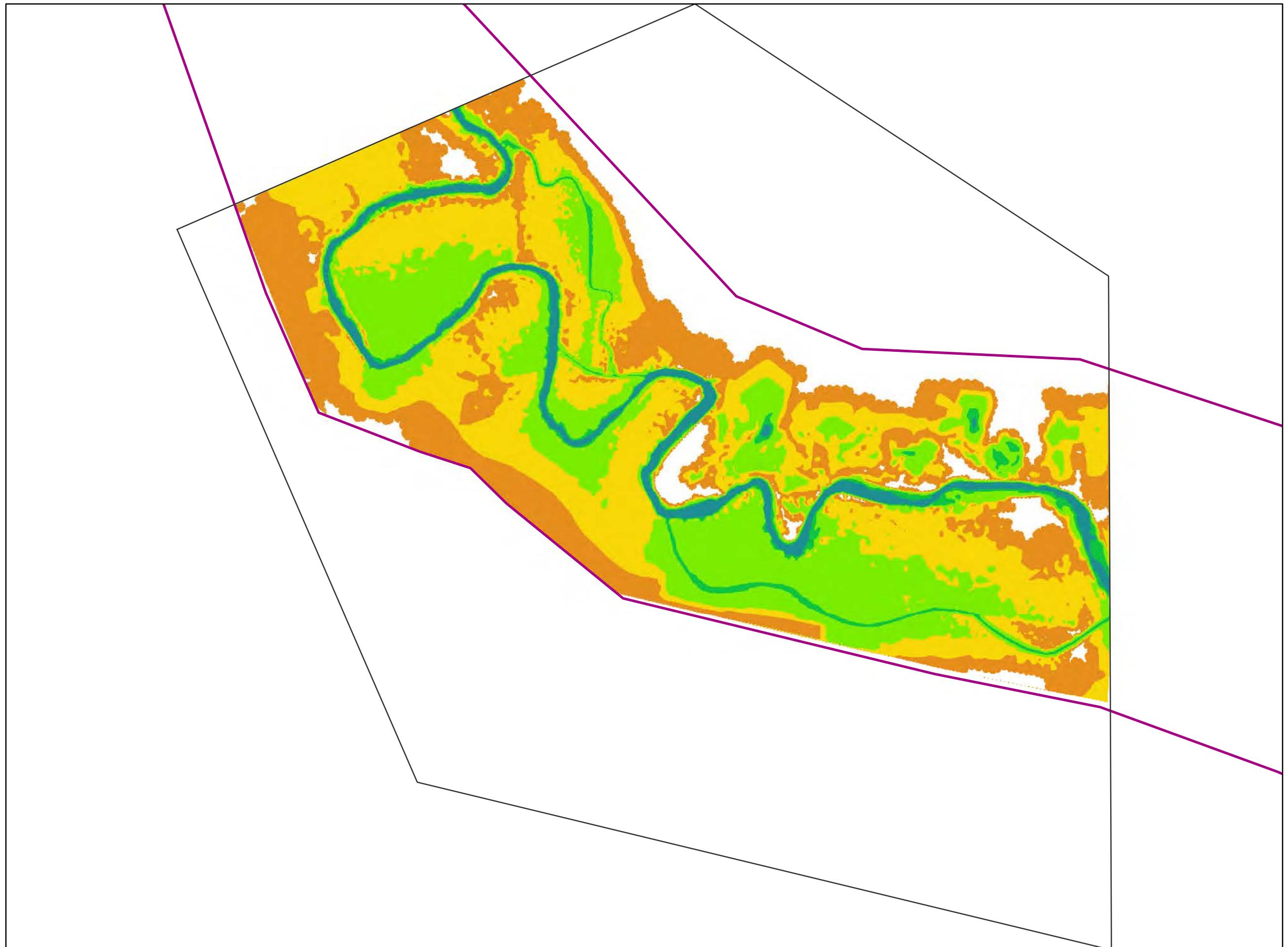
Inundation 2200 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012**

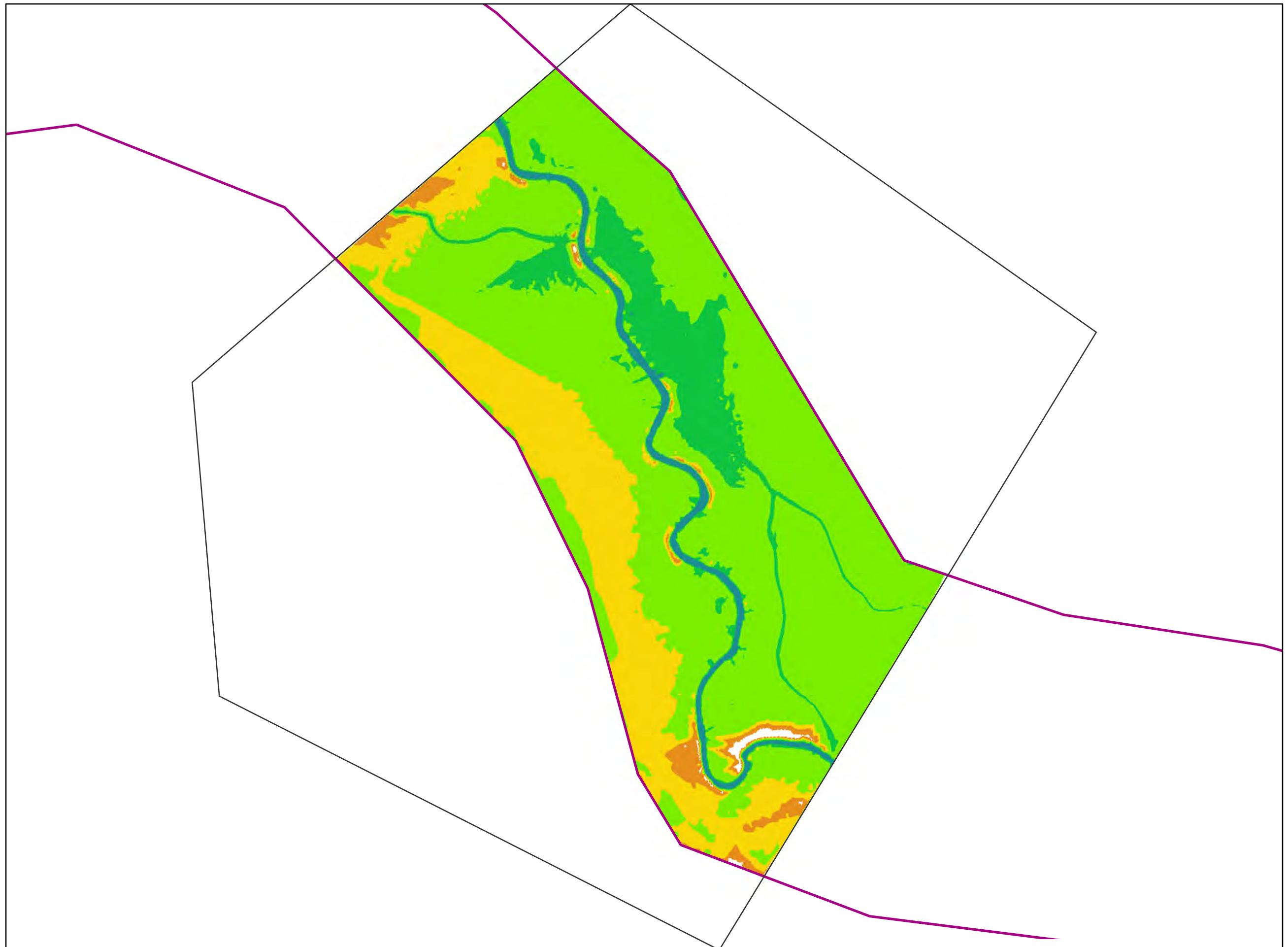
Legend

- Levee Option C
- Example Areas

Inundation 2200 cfs

depth (ft)

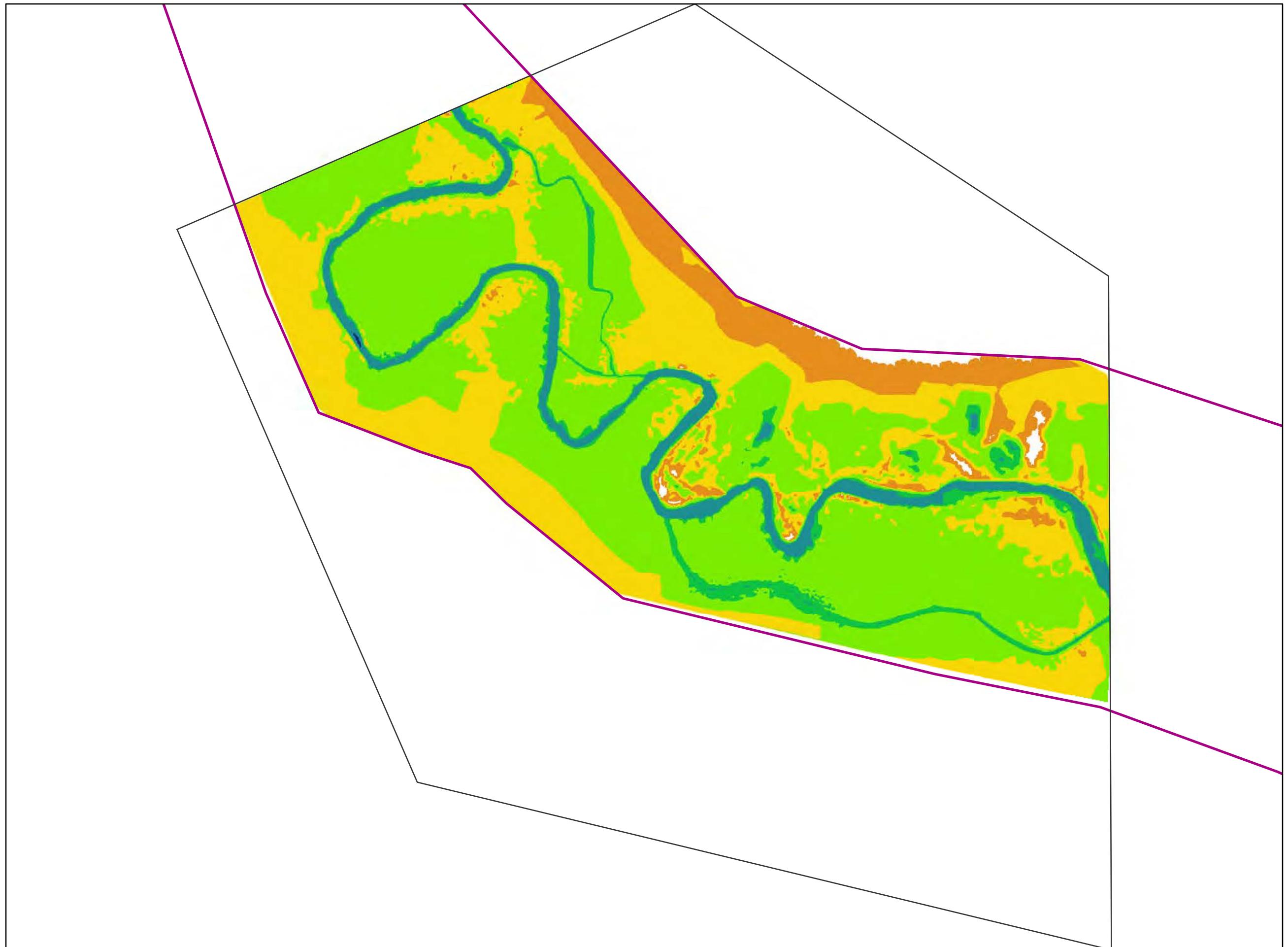
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30



Mariposa Bypass
Bypa s
San Joaquin River
Sand Slough

**Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO**

1



Alternative 1
Option C
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option C
- Example Areas

Inundation 4500 cfs

depth (ft)

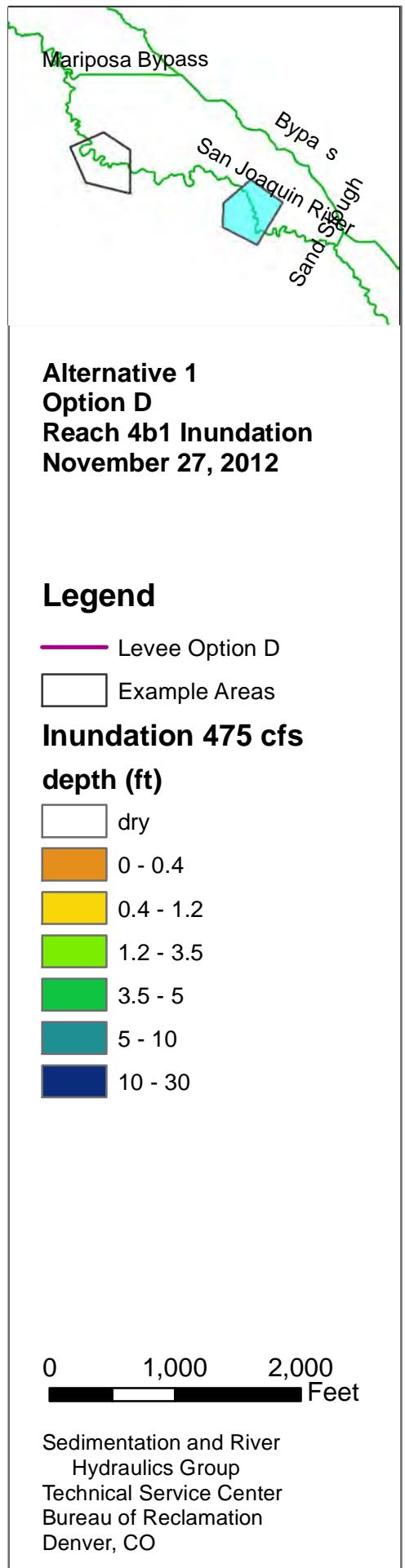
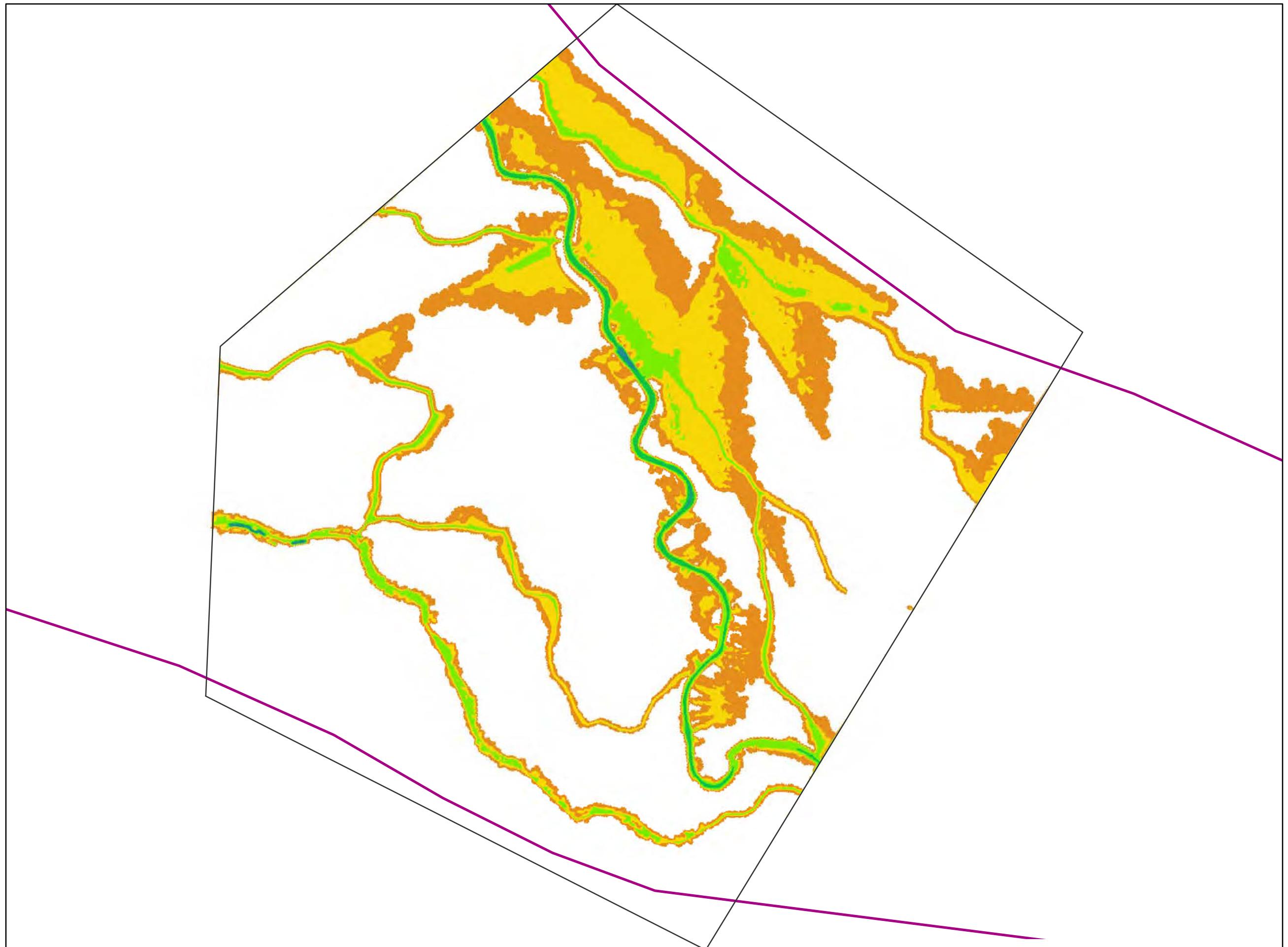
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

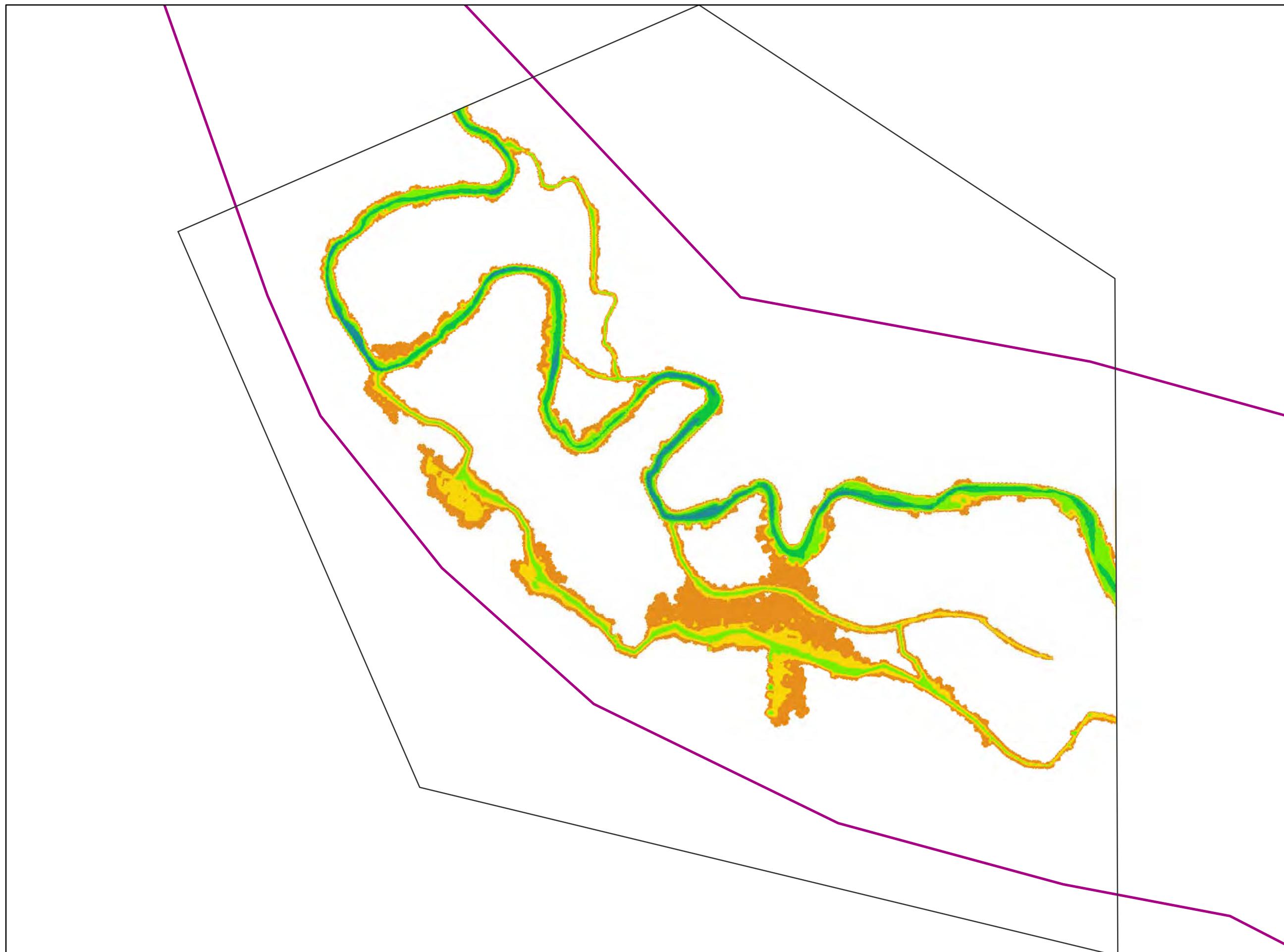
0 1,000 2,000 Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO

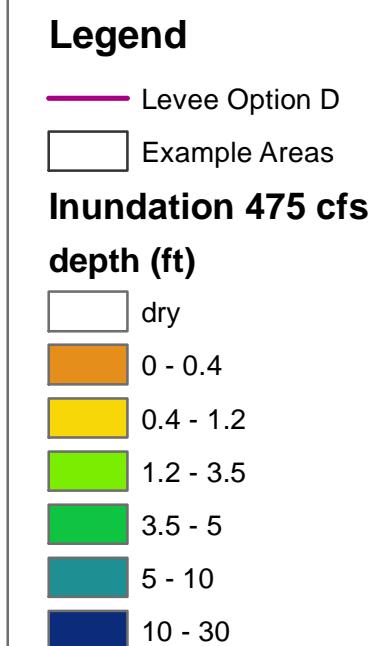




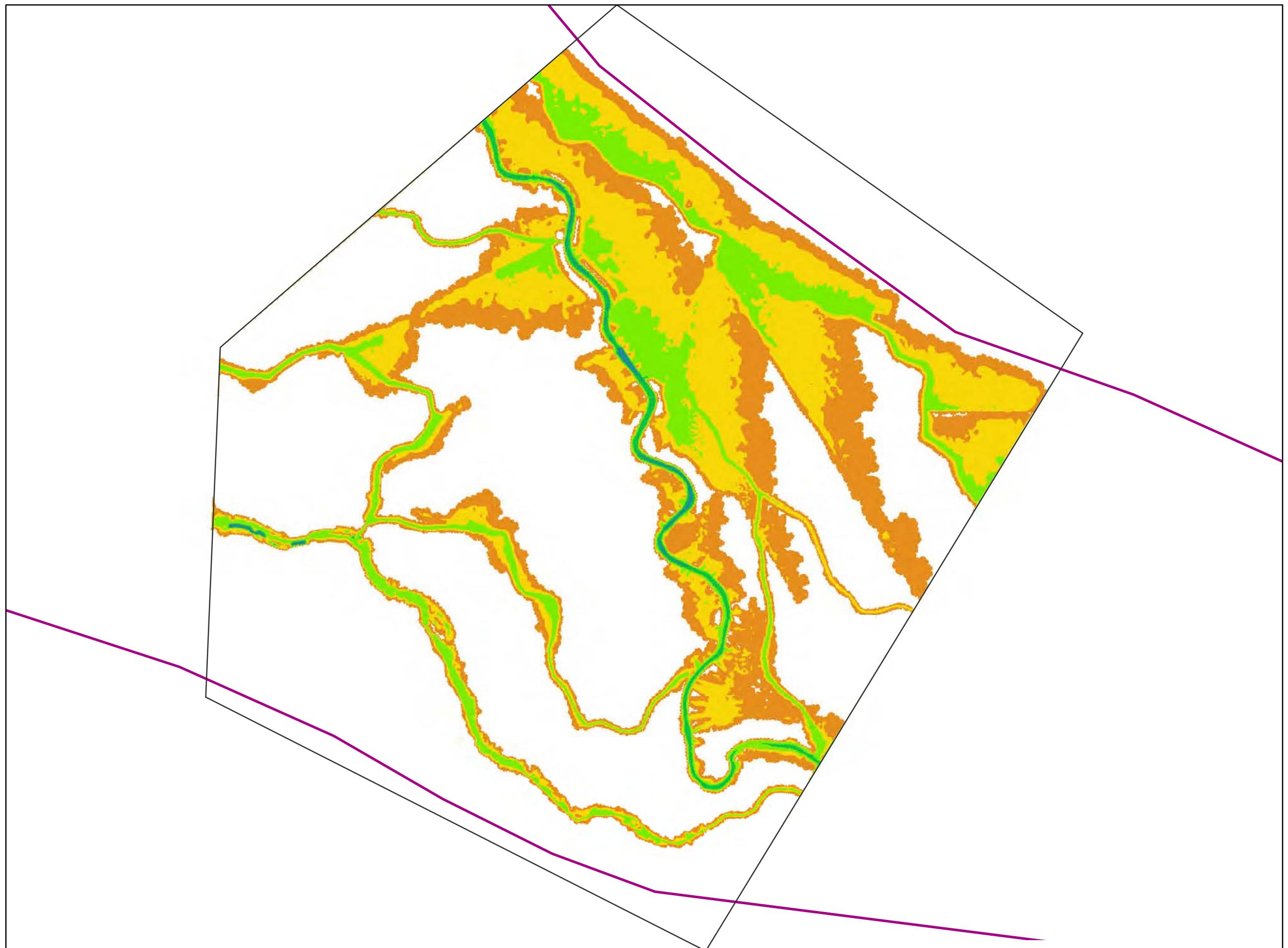




Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012



Sedimentation and River
Hydraulics Group
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Bureau of Reclamation
Denver, CO



Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012

Legend

- Levee Option D
- Example Areas

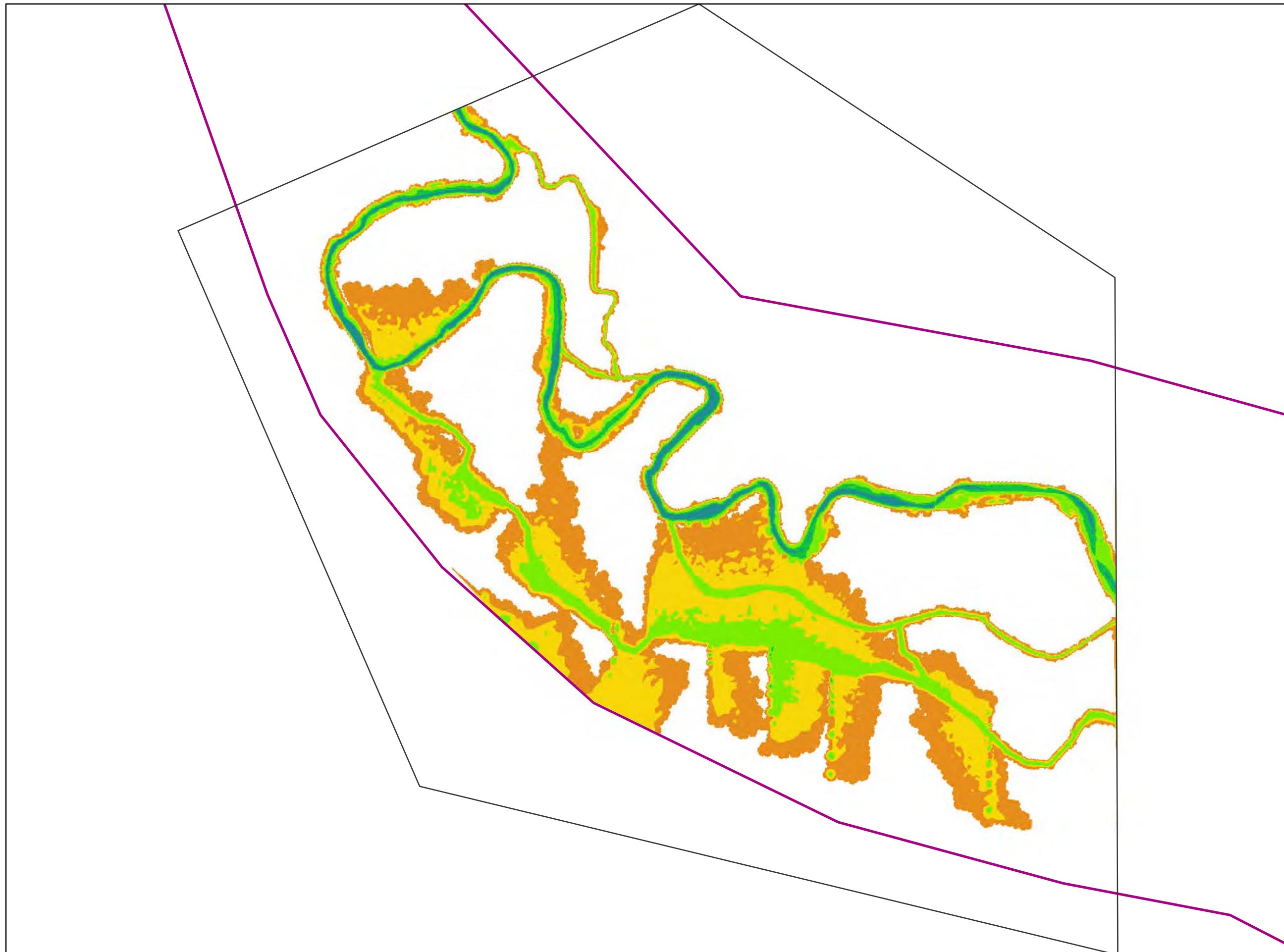
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option D (purple line)
- Example Areas (black line)

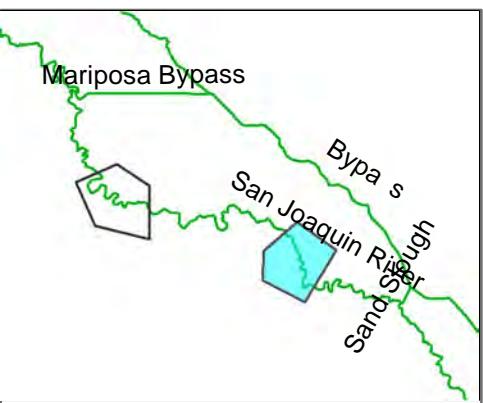
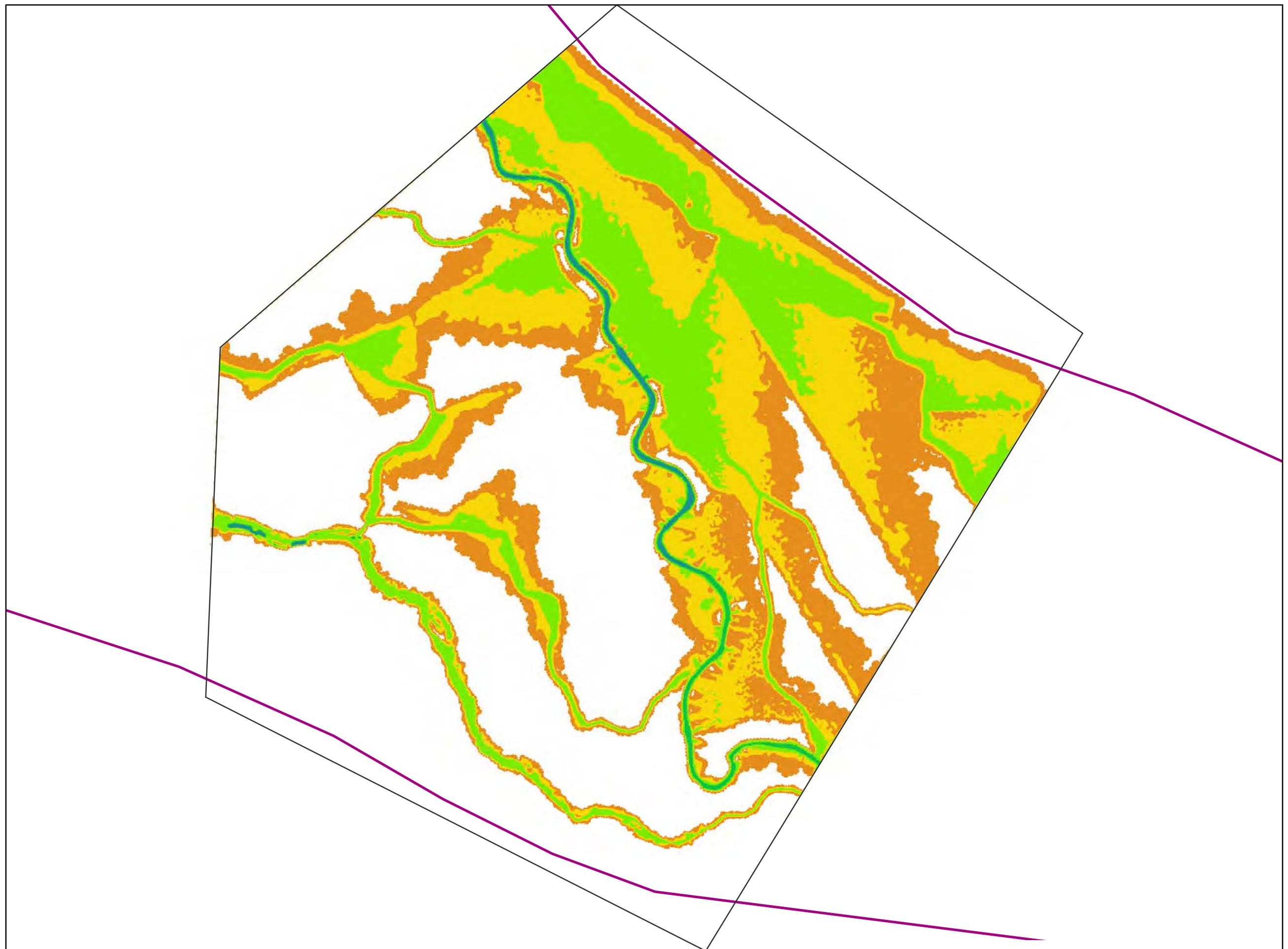
Inundation 700 cfs

depth (ft)

Depth Range (ft)	Color
dry	white
0 - 0.4	orange
0.4 - 1.2	yellow
1.2 - 3.5	light green
3.5 - 5	medium green
5 - 10	teal
10 - 30	dark blue

0 1,000 2,000 Feet

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Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012

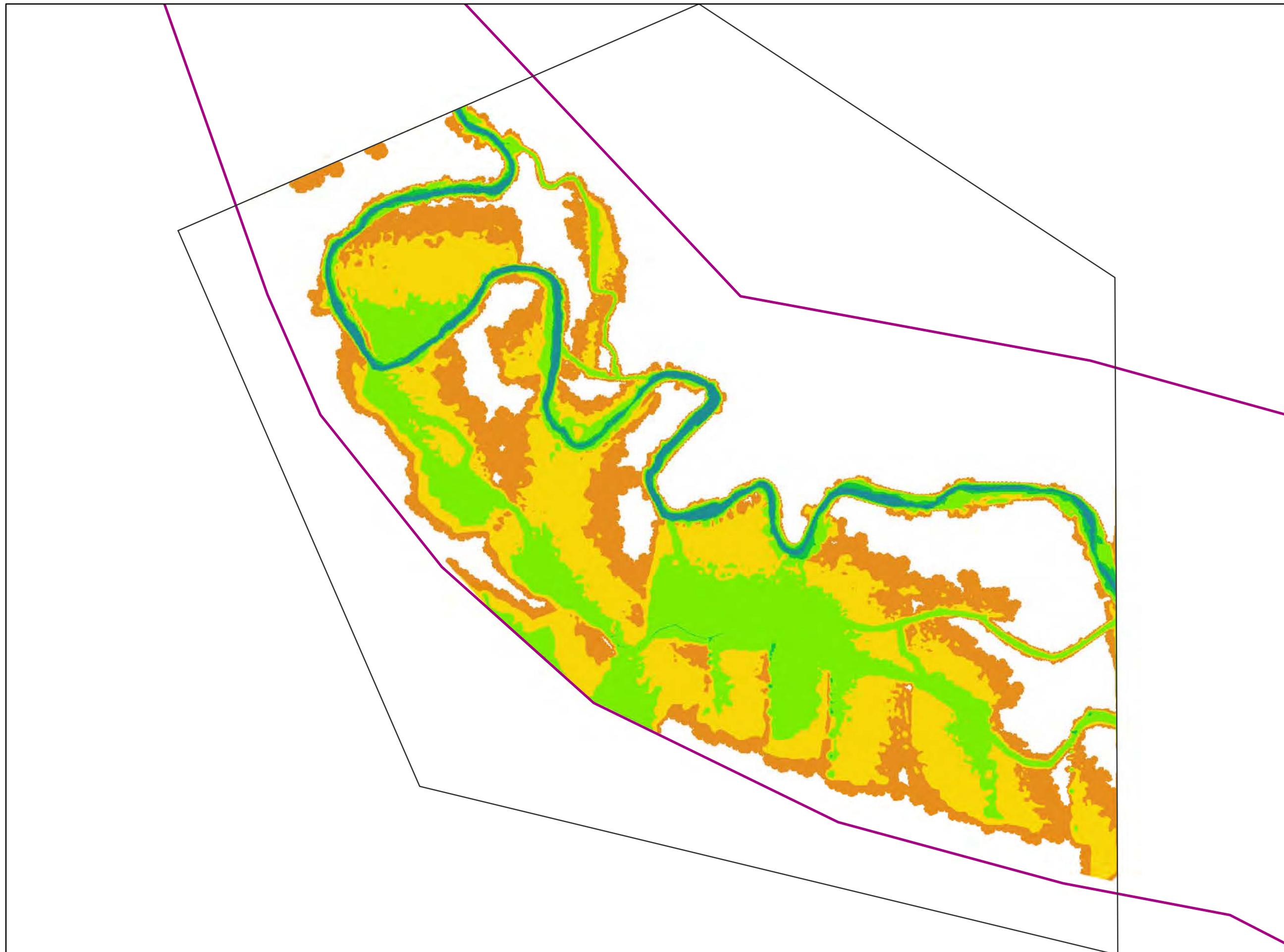
Legend

- Levee Option D
- Example Areas

Inundation 1200 cfs

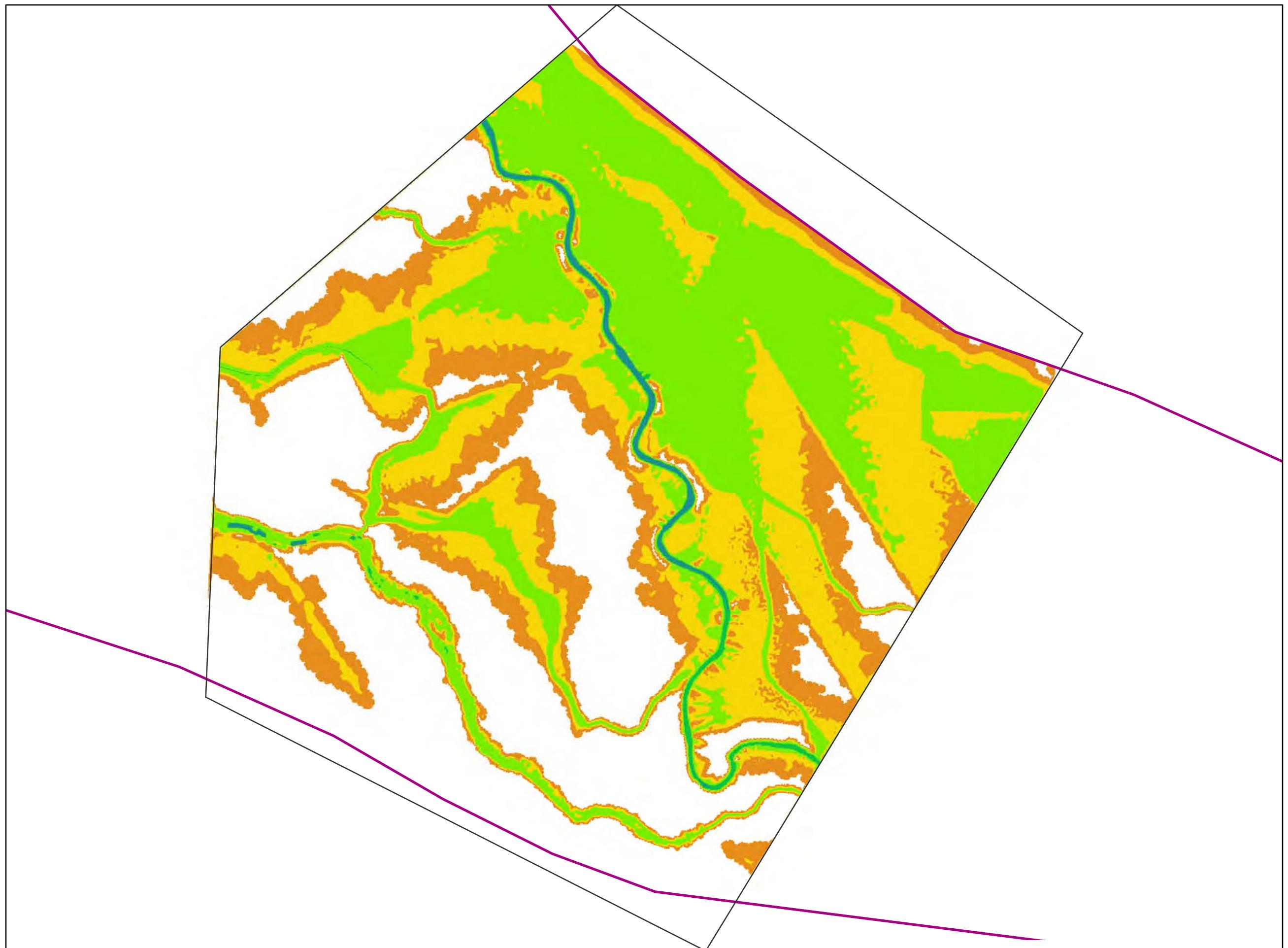
depth (ft)

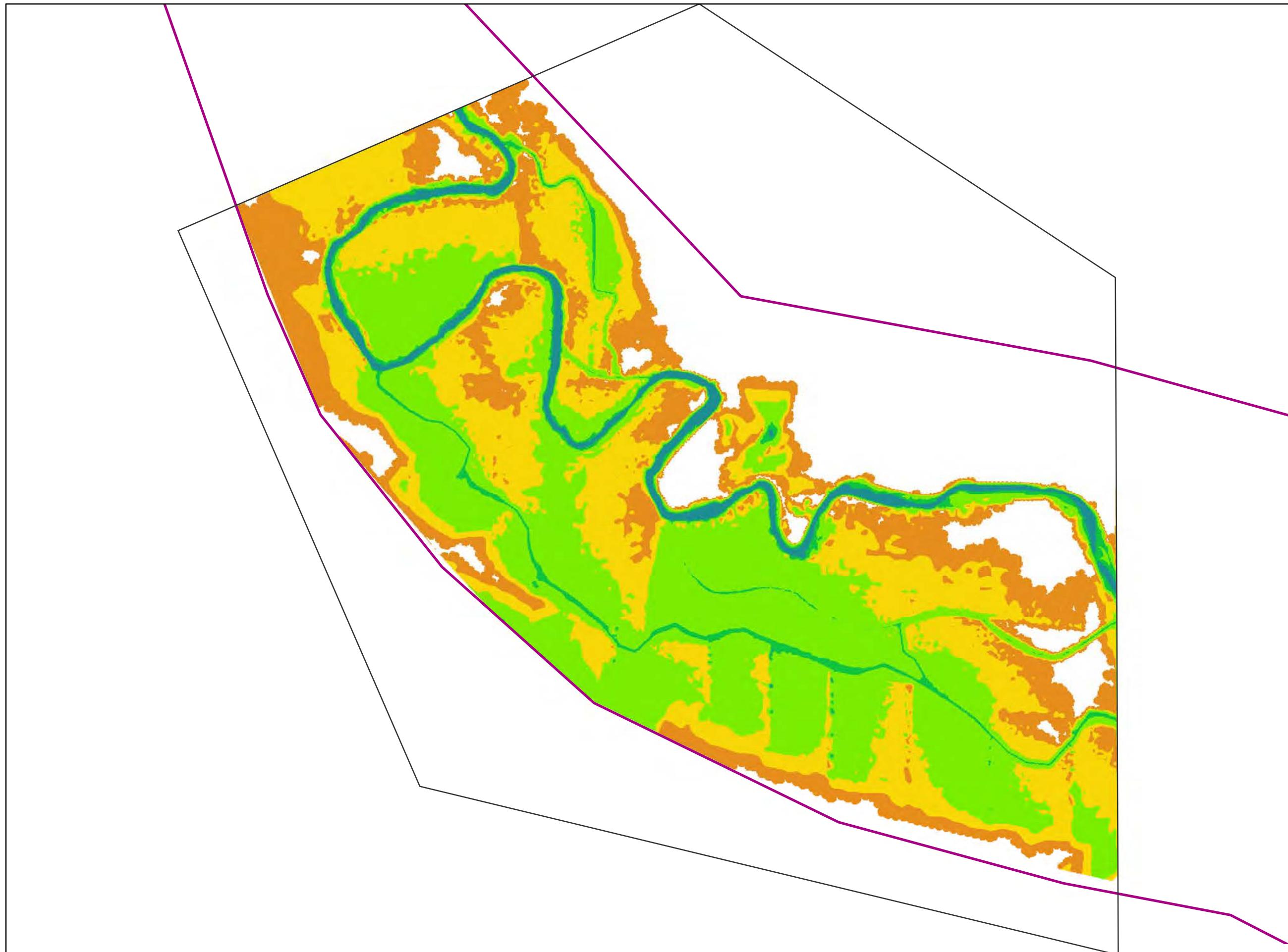
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30



0 1,000 2,000 Feet

Sedimentation and River
Hydraulics Group
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**Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option D
- Example Areas

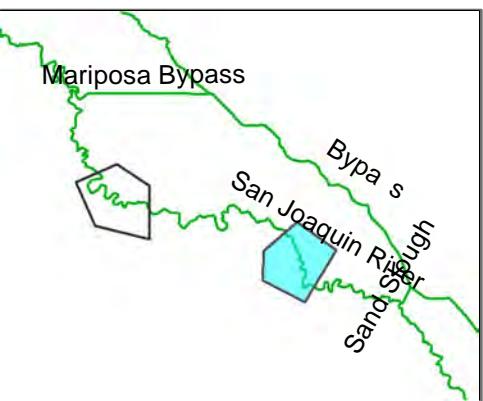
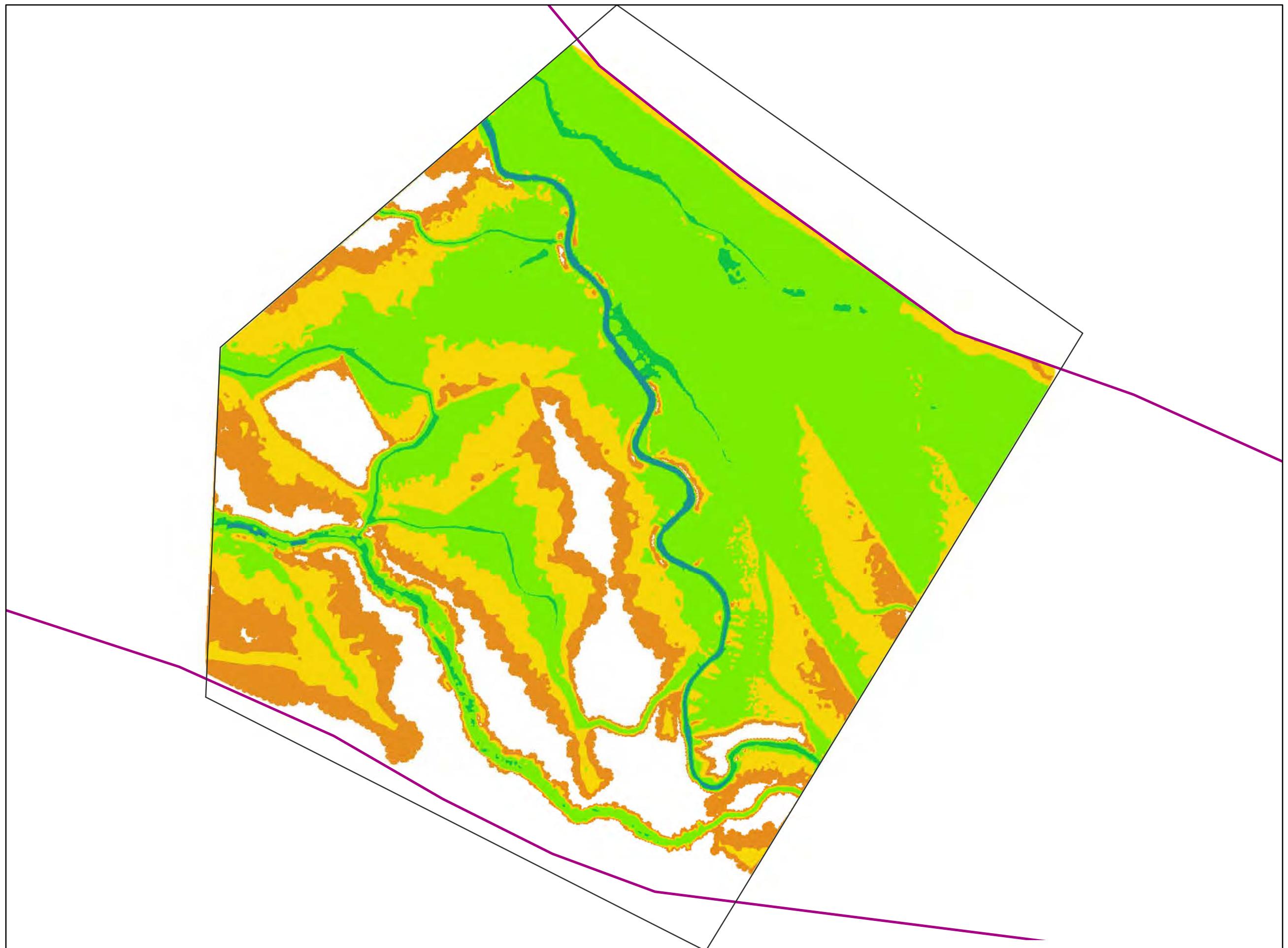
Inundation 2200 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option D
- Example Areas

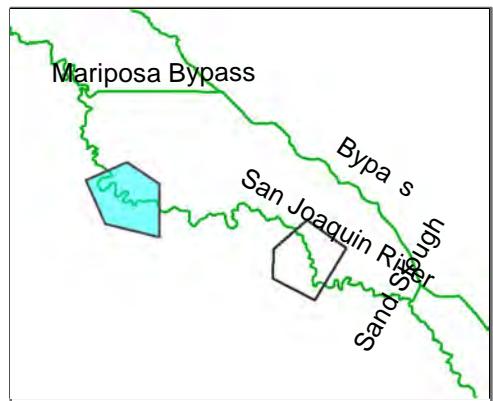
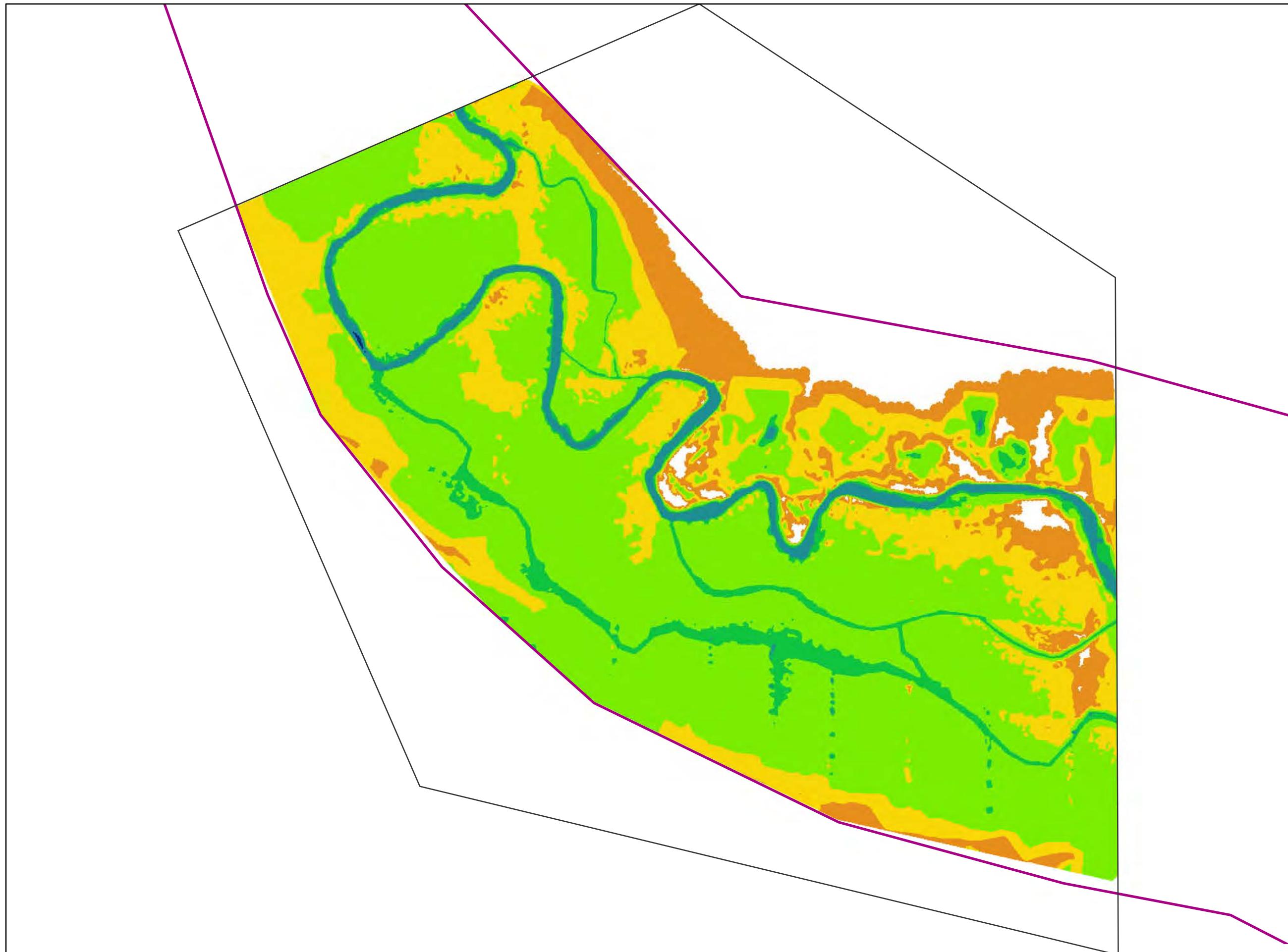
Inundation 4500 cfs

depth (ft)

□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

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Denver, CO



**Alternative 1
Option D
Reach 4b1 Inundation
November 27, 2012**

Legend

- Levee Option D
- Example Areas

Inundation 4500 cfs

depth (ft)

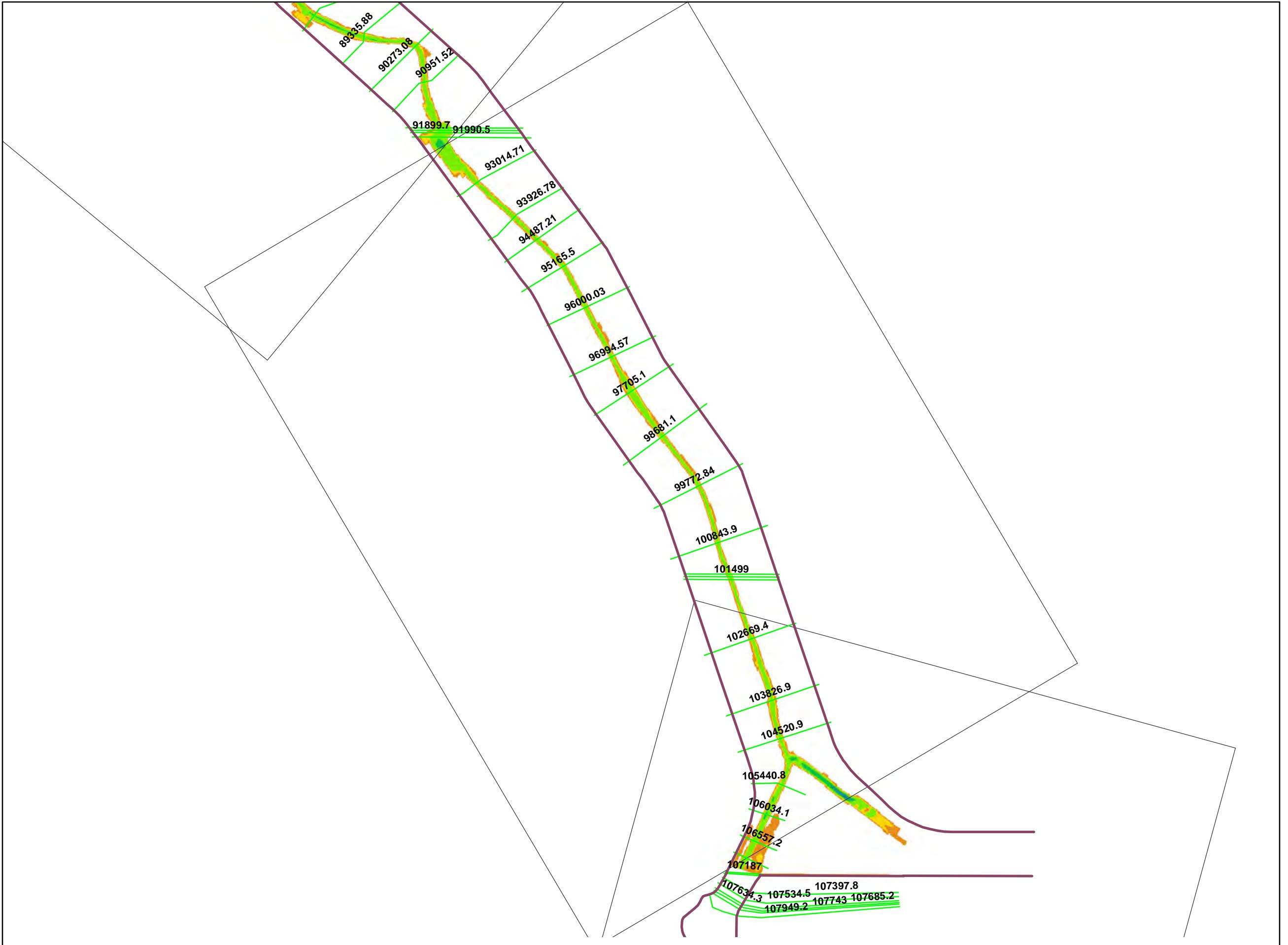
□	dry
■	0 - 0.4
■	0.4 - 1.2
■	1.2 - 3.5
■	3.5 - 5
■	5 - 10
■	10 - 30

0 1,000 2,000
Feet

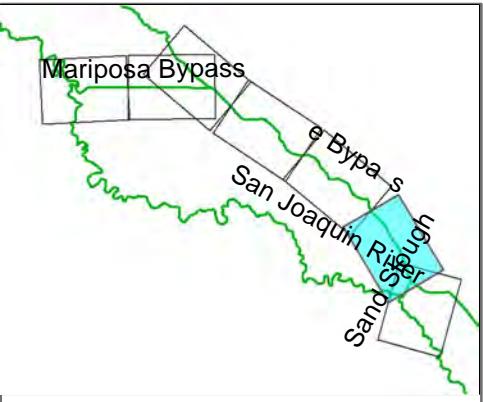
Sedimentation and River
Hydraulics Group
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See Page 3



See Page 1



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

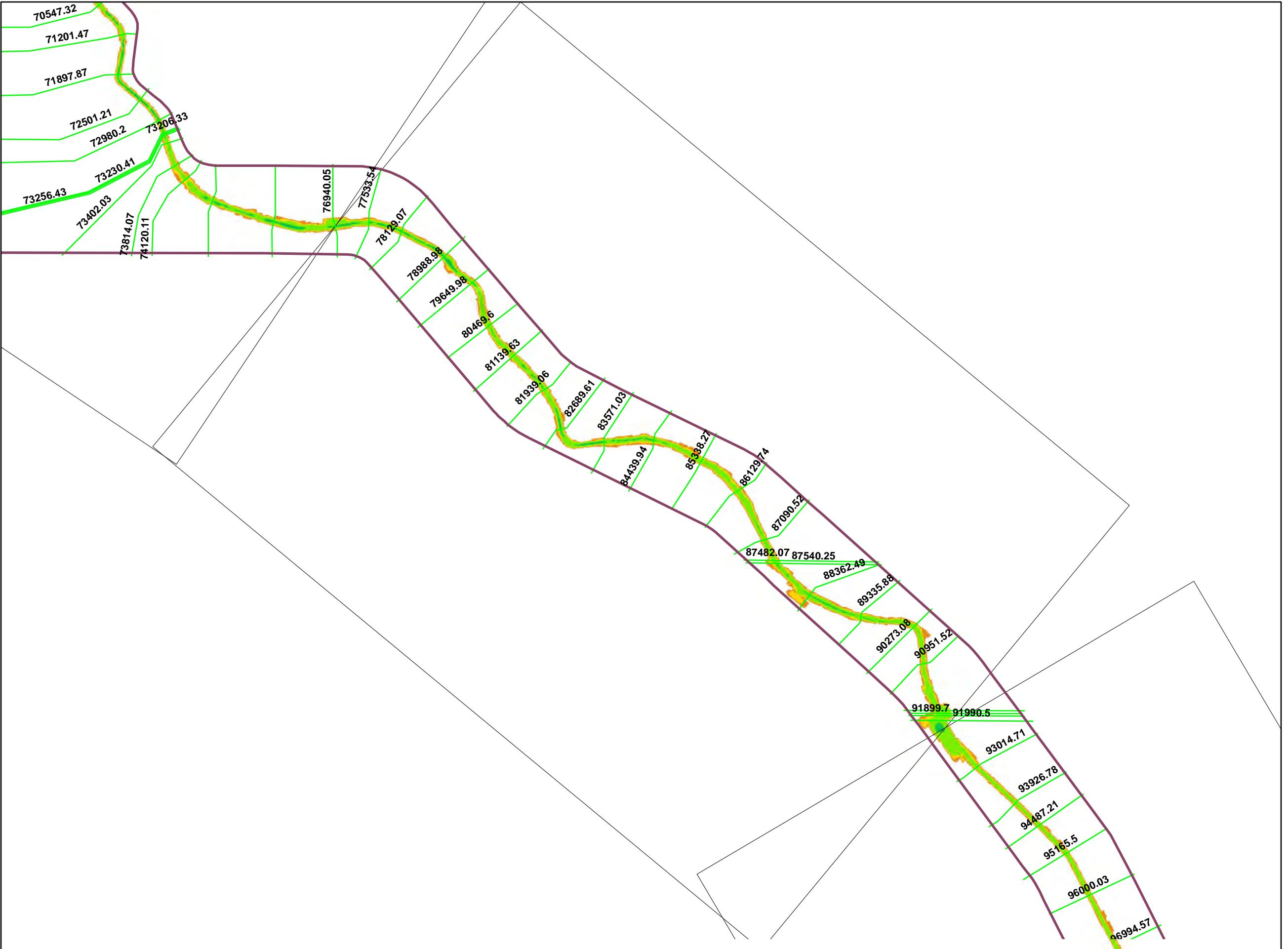
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

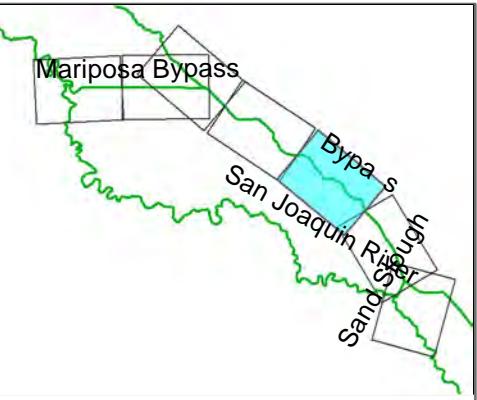
0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
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See Page 2



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

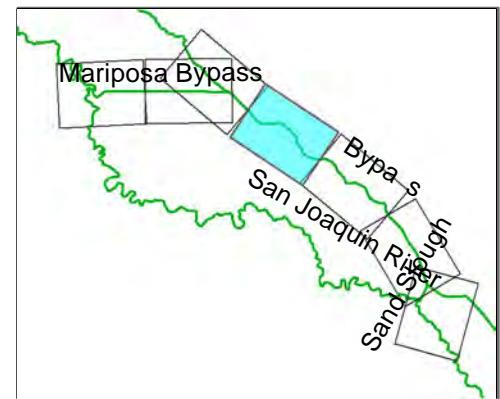
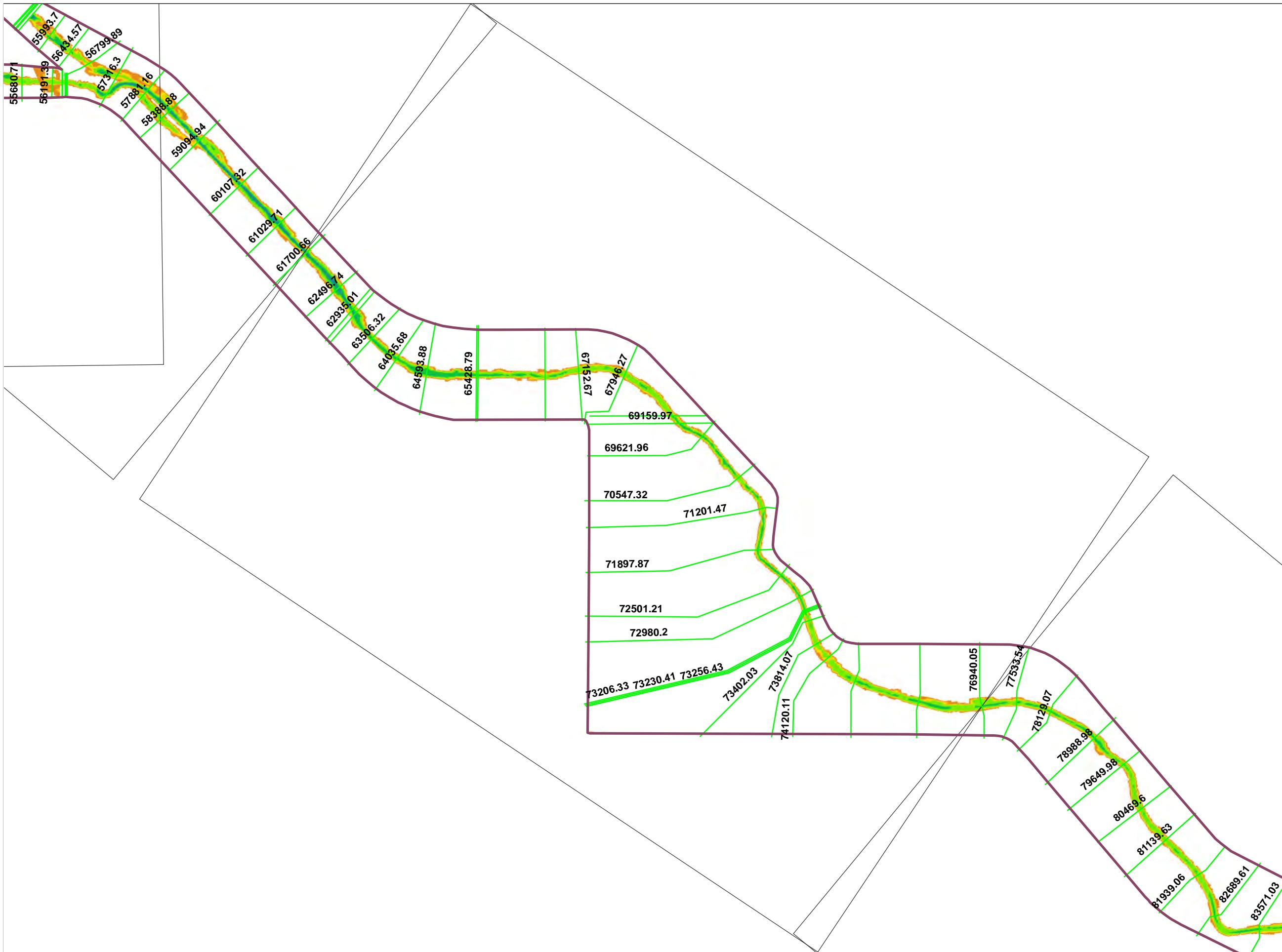
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

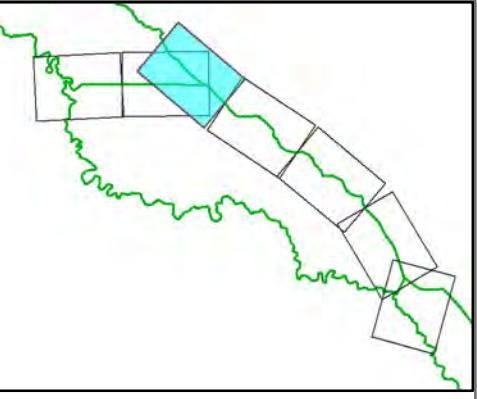
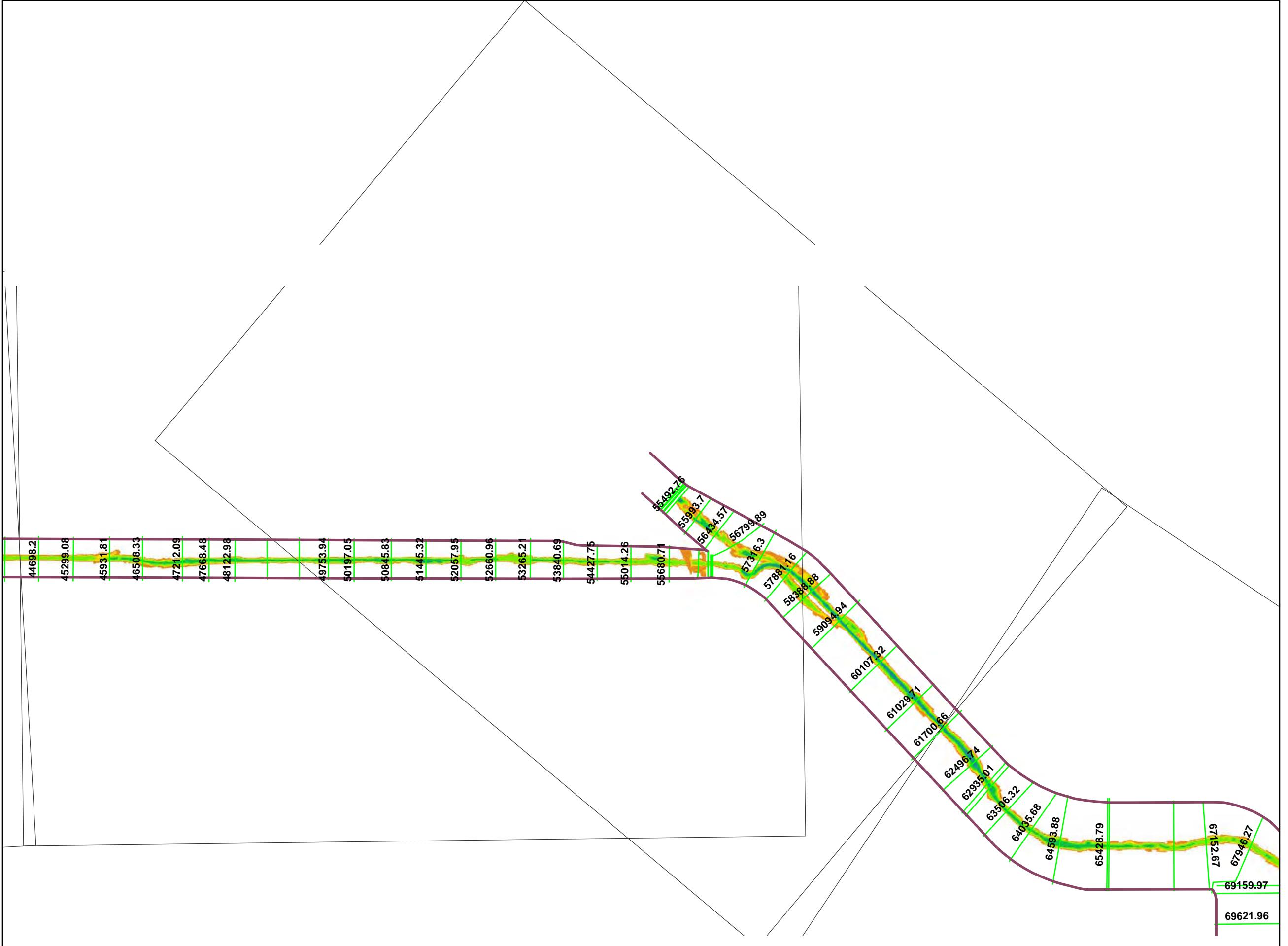
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

See Page 6



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

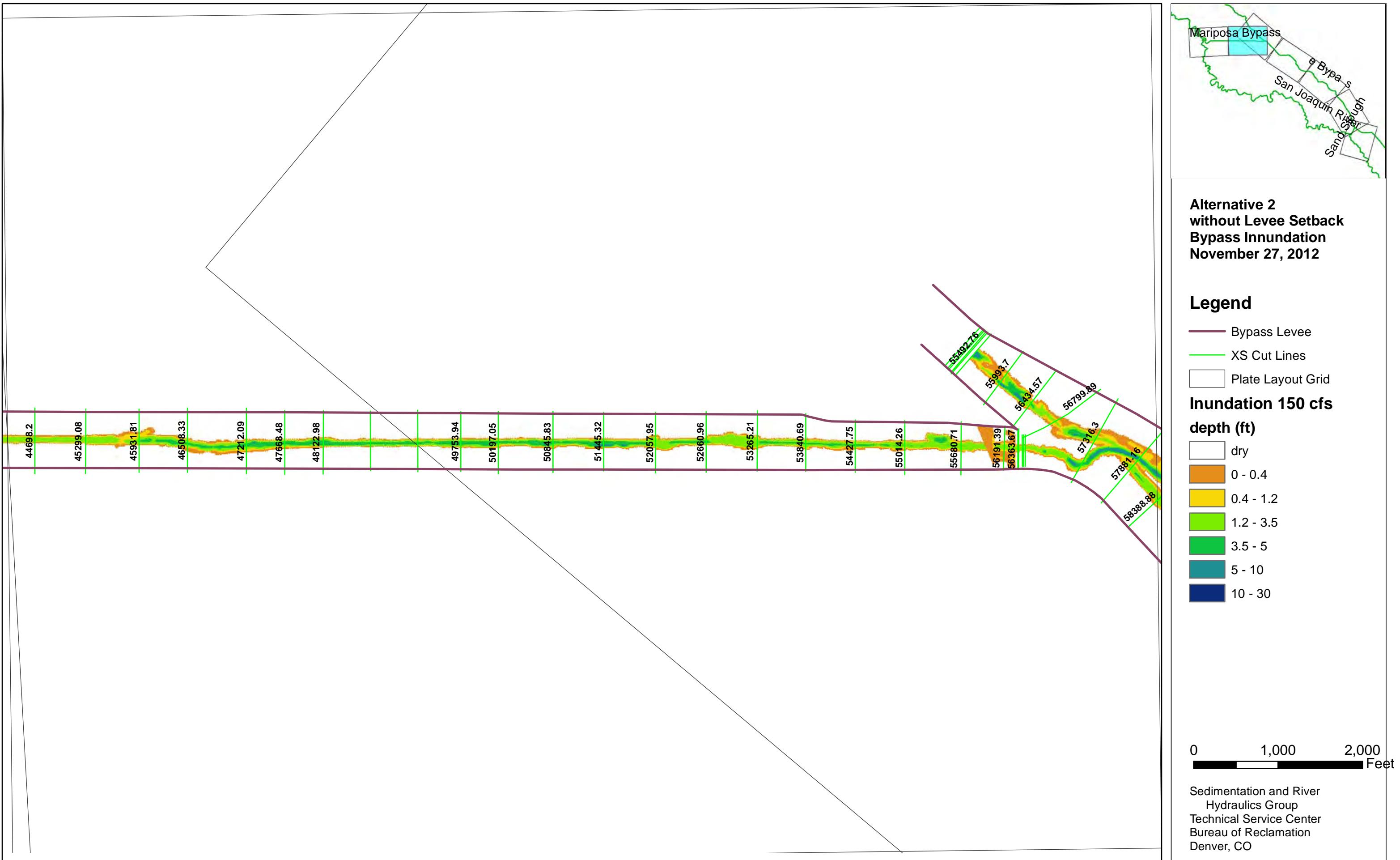
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

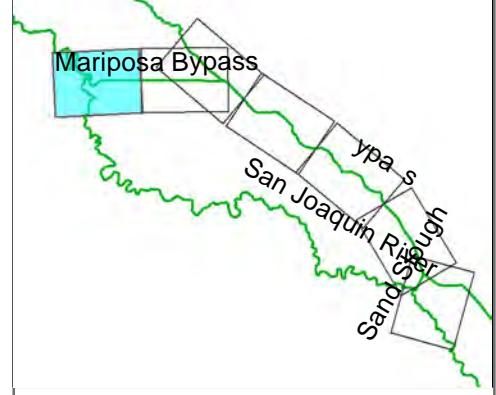
Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

See Page 7





**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

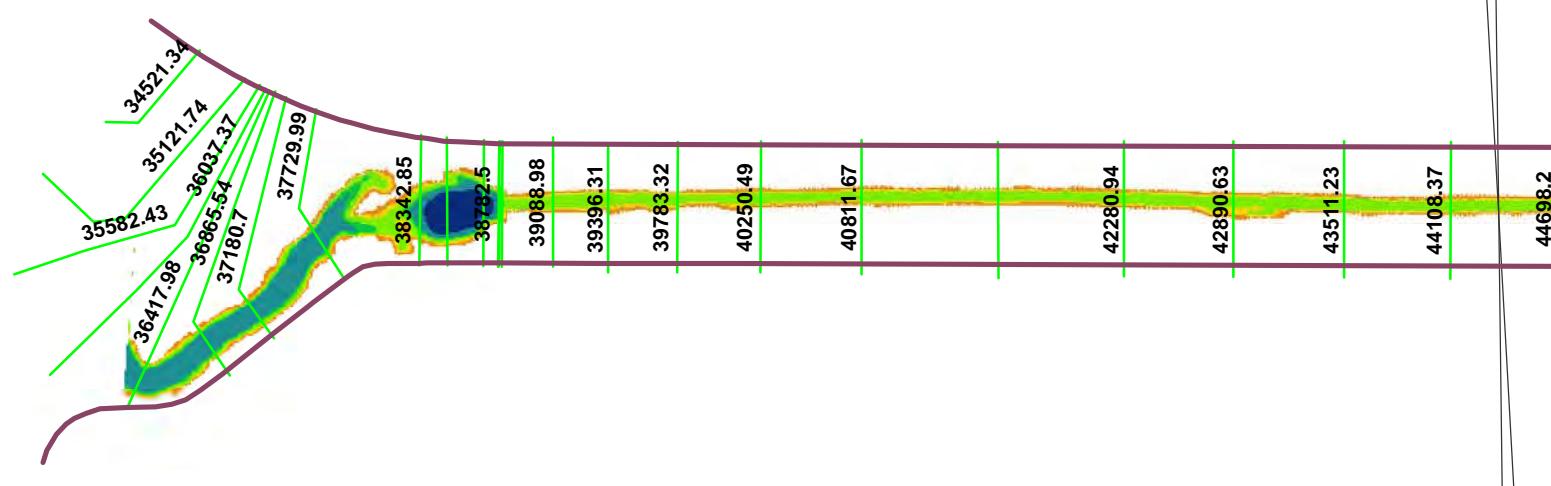
Inundation 150 cfs

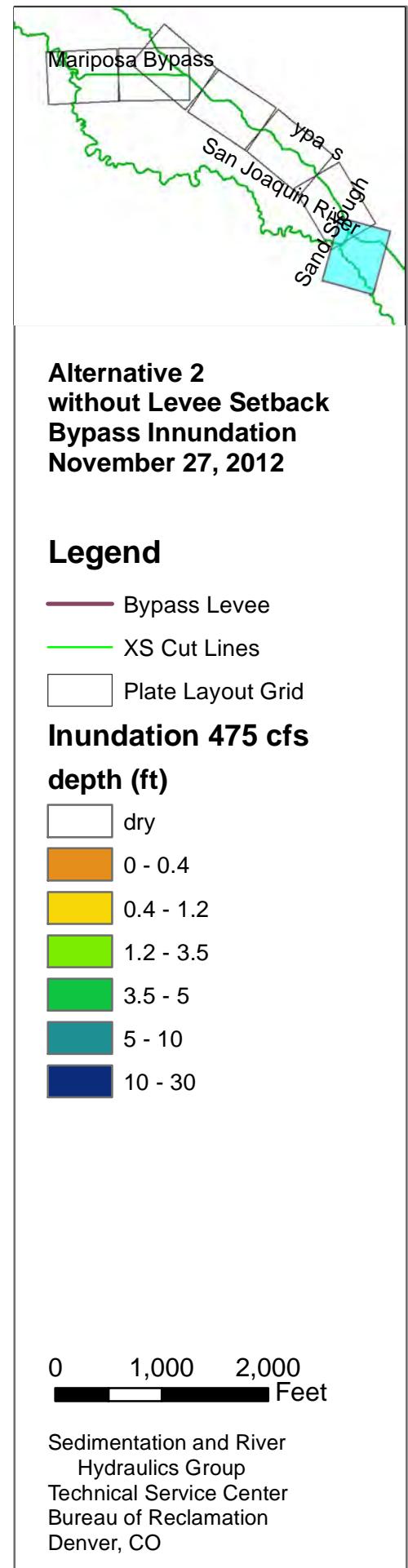
depth (ft)



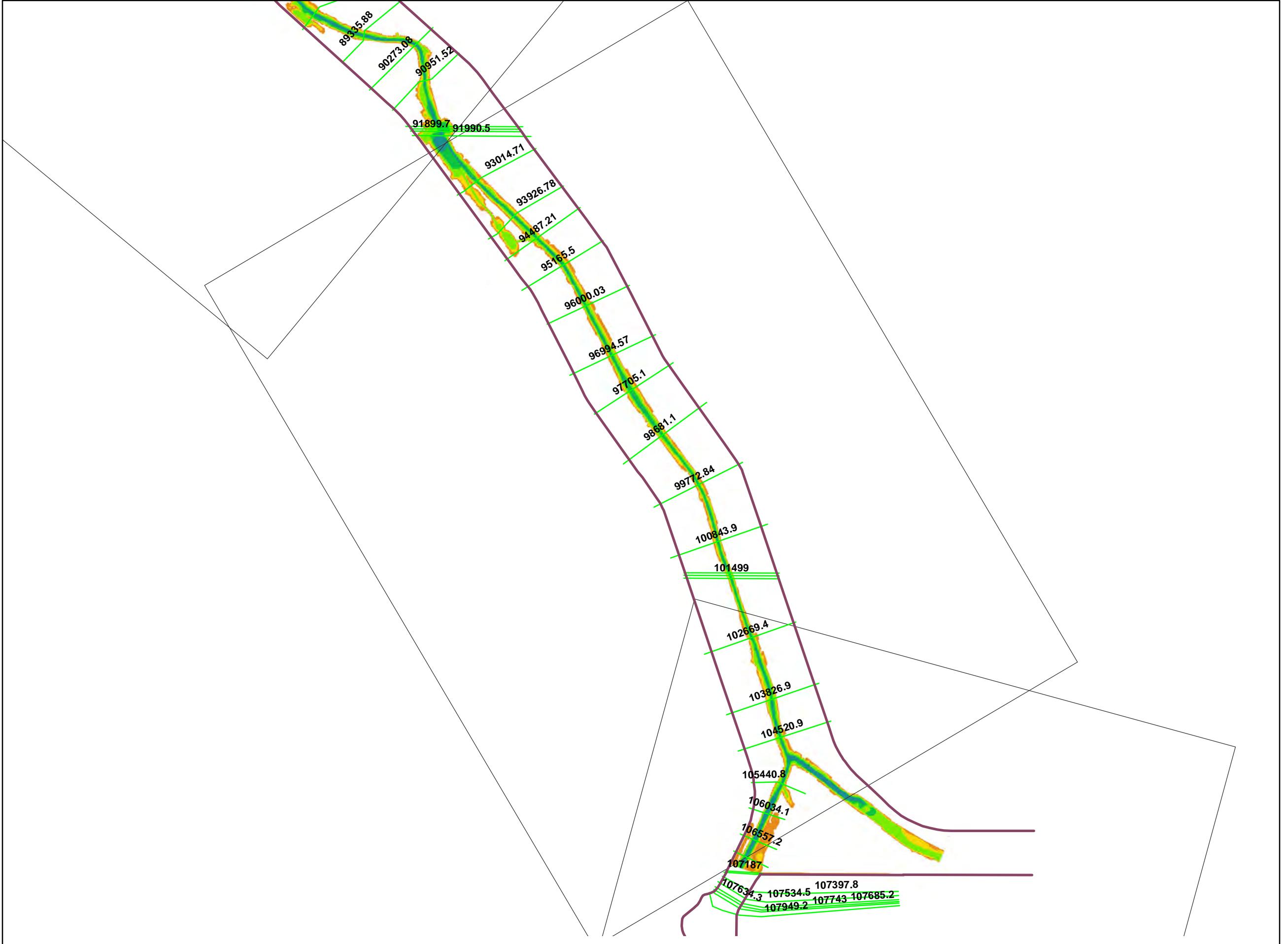
0 1,000 2,000
Feet

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Hydraulics Group
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Bureau of Reclamation
Denver, CO





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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

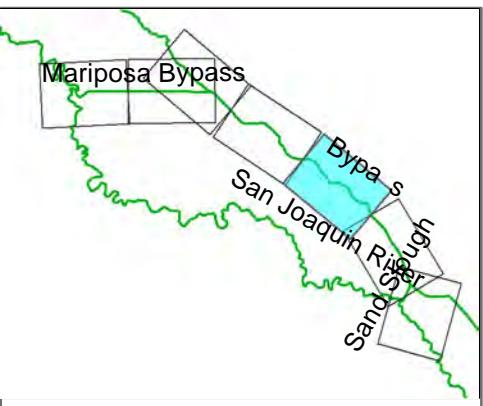
0 1,000 2,000
Feet

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See Page 2



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

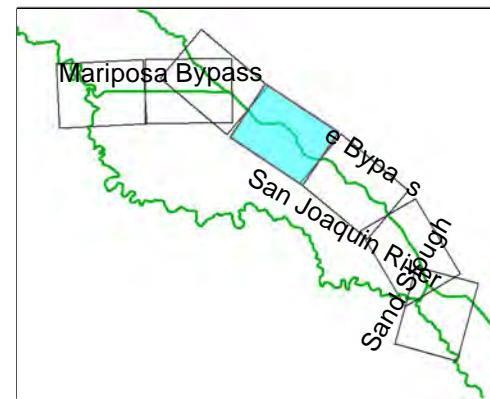
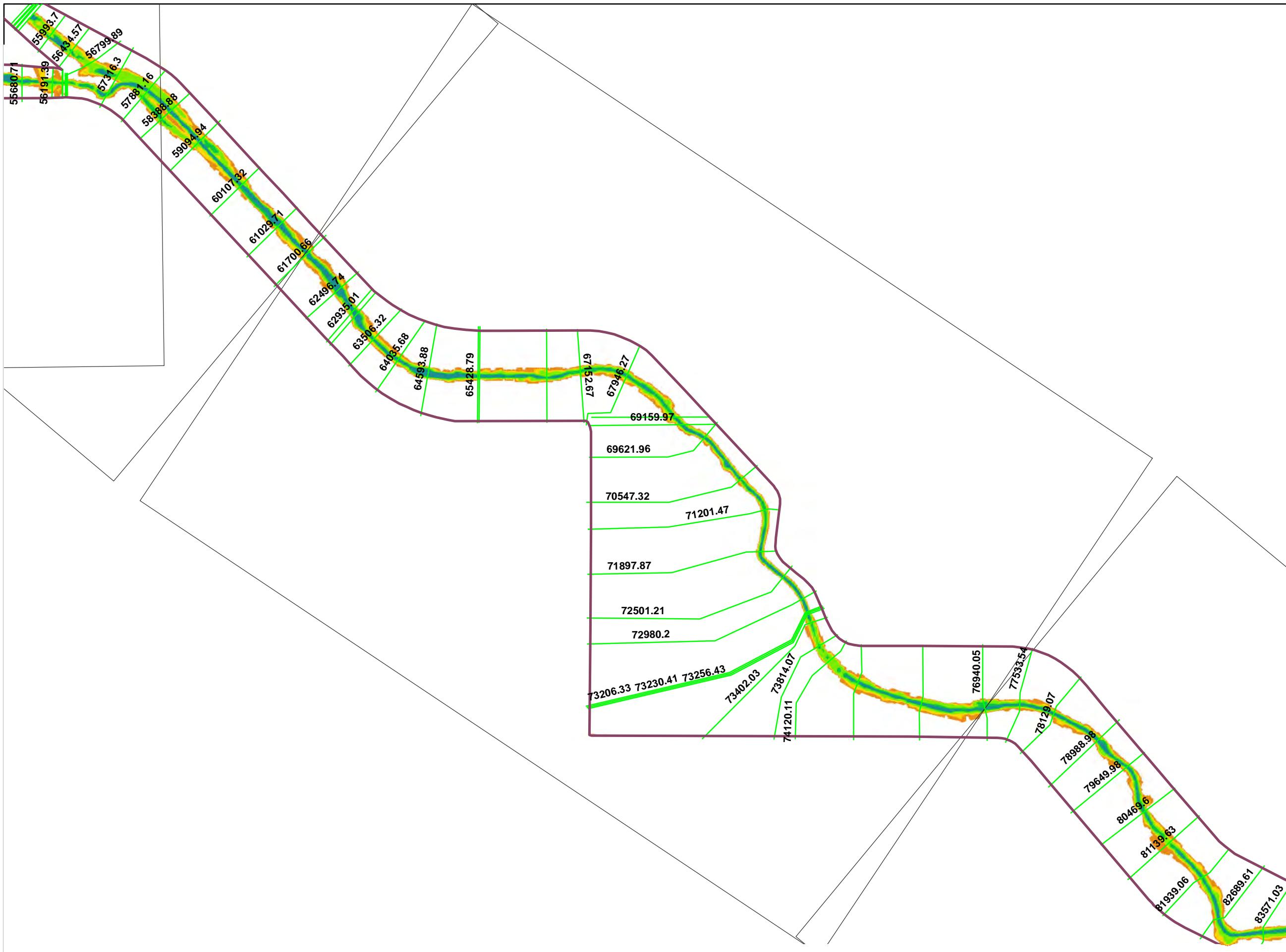
Inundation 475 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
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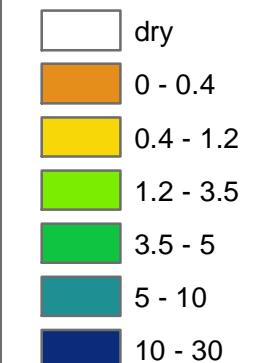
Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

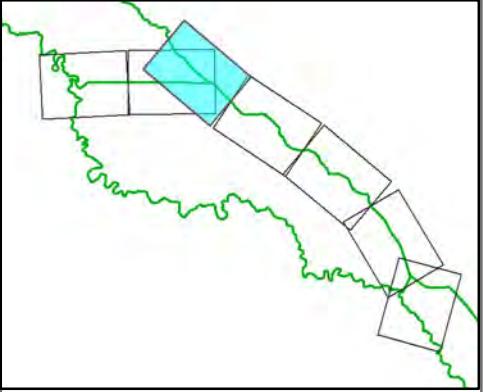
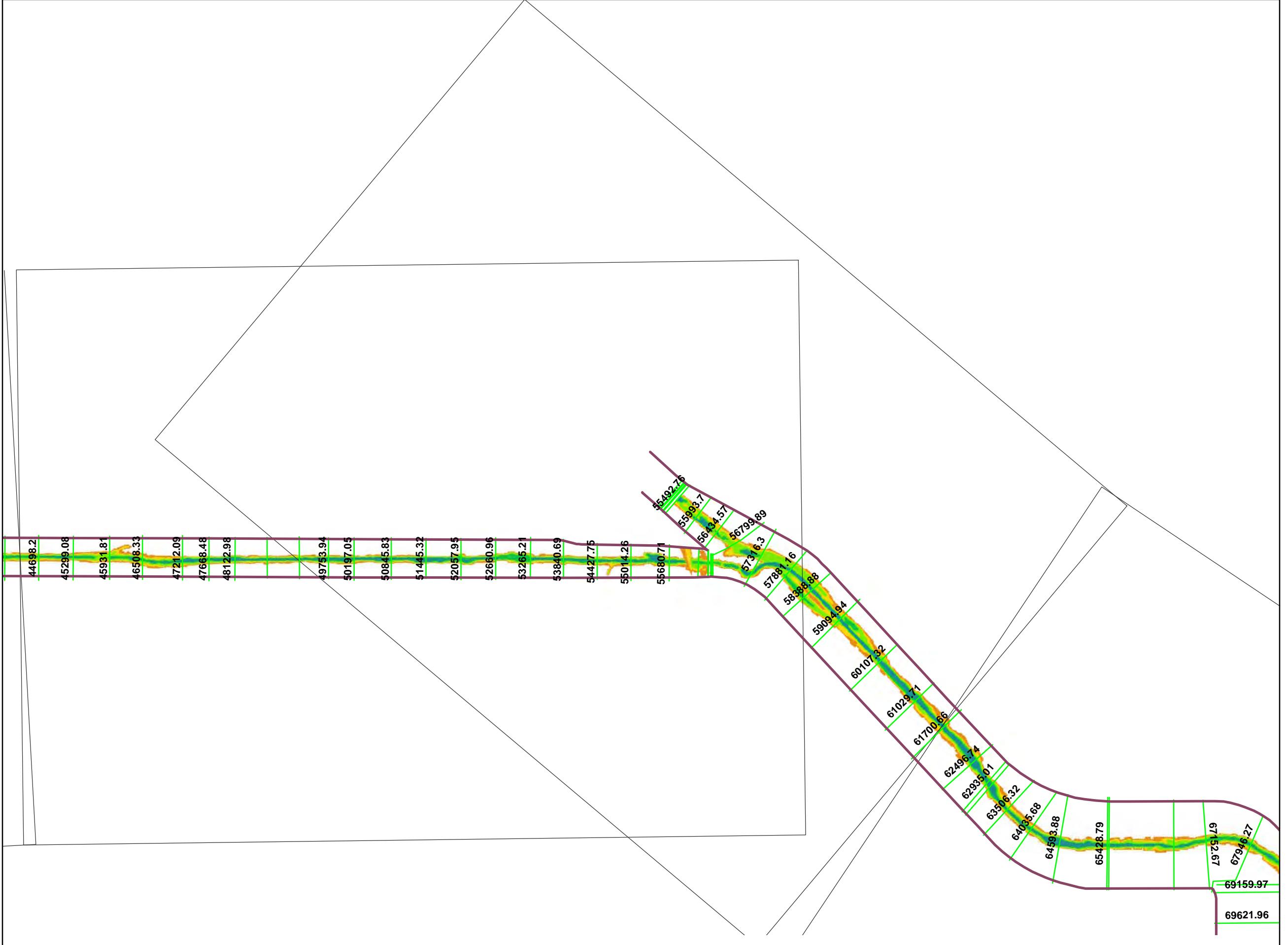
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

depth (ft)



See Page 6



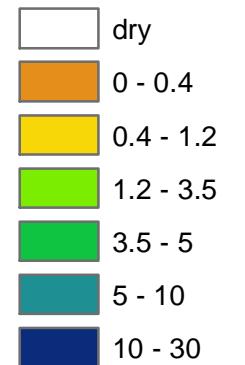
**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

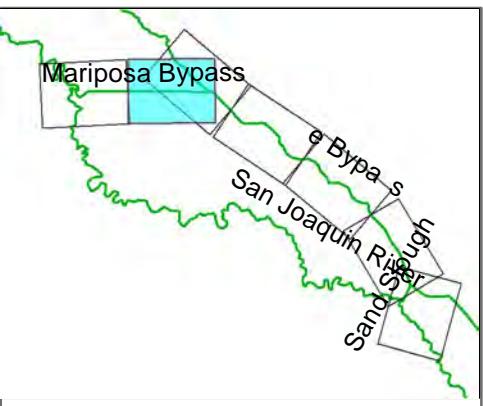
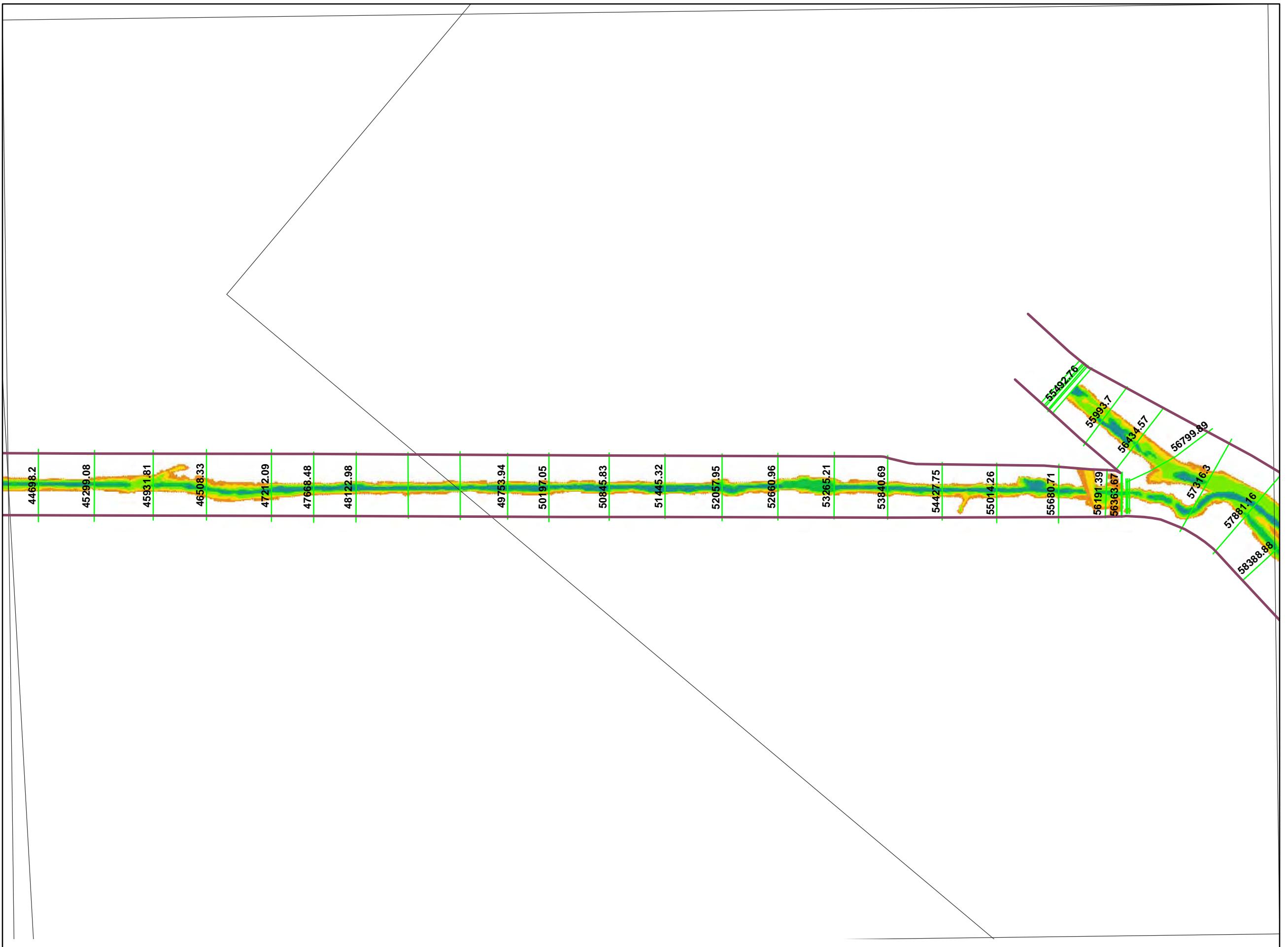
depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

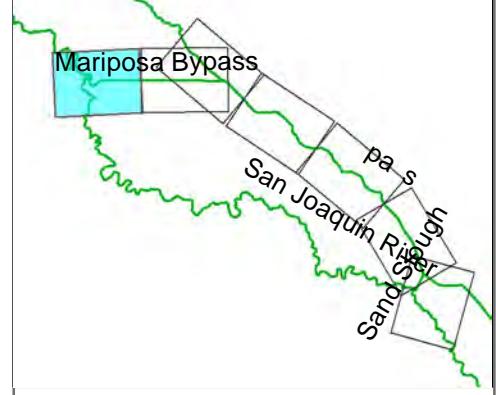
Inundation 475 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

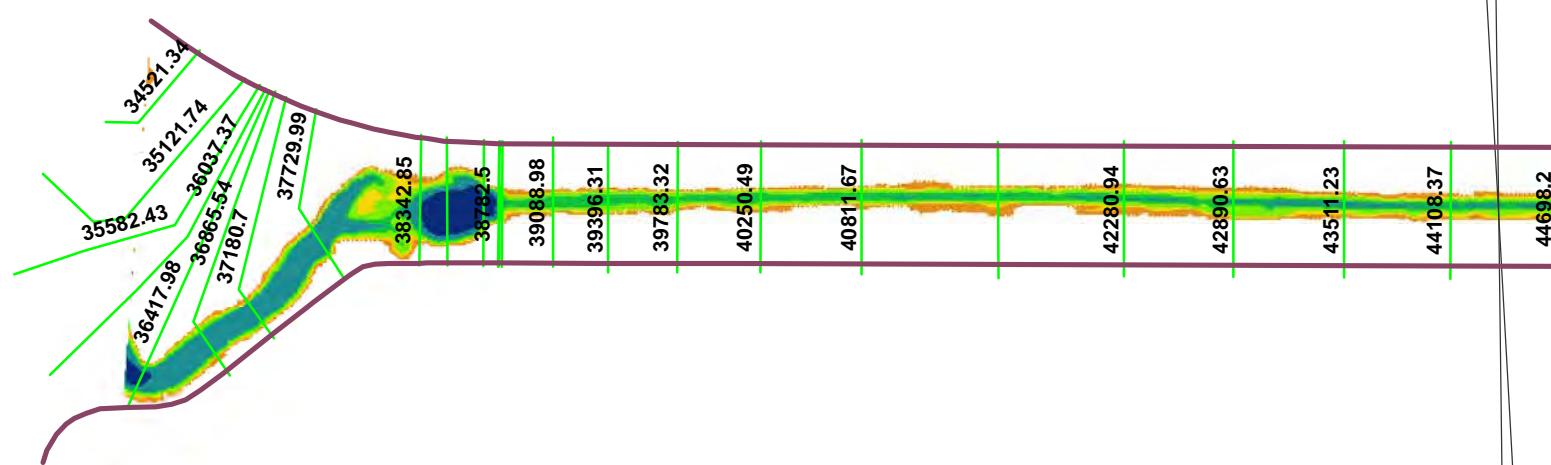
Inundation 475 cfs

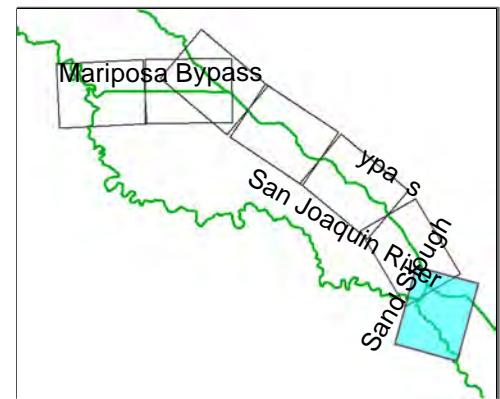
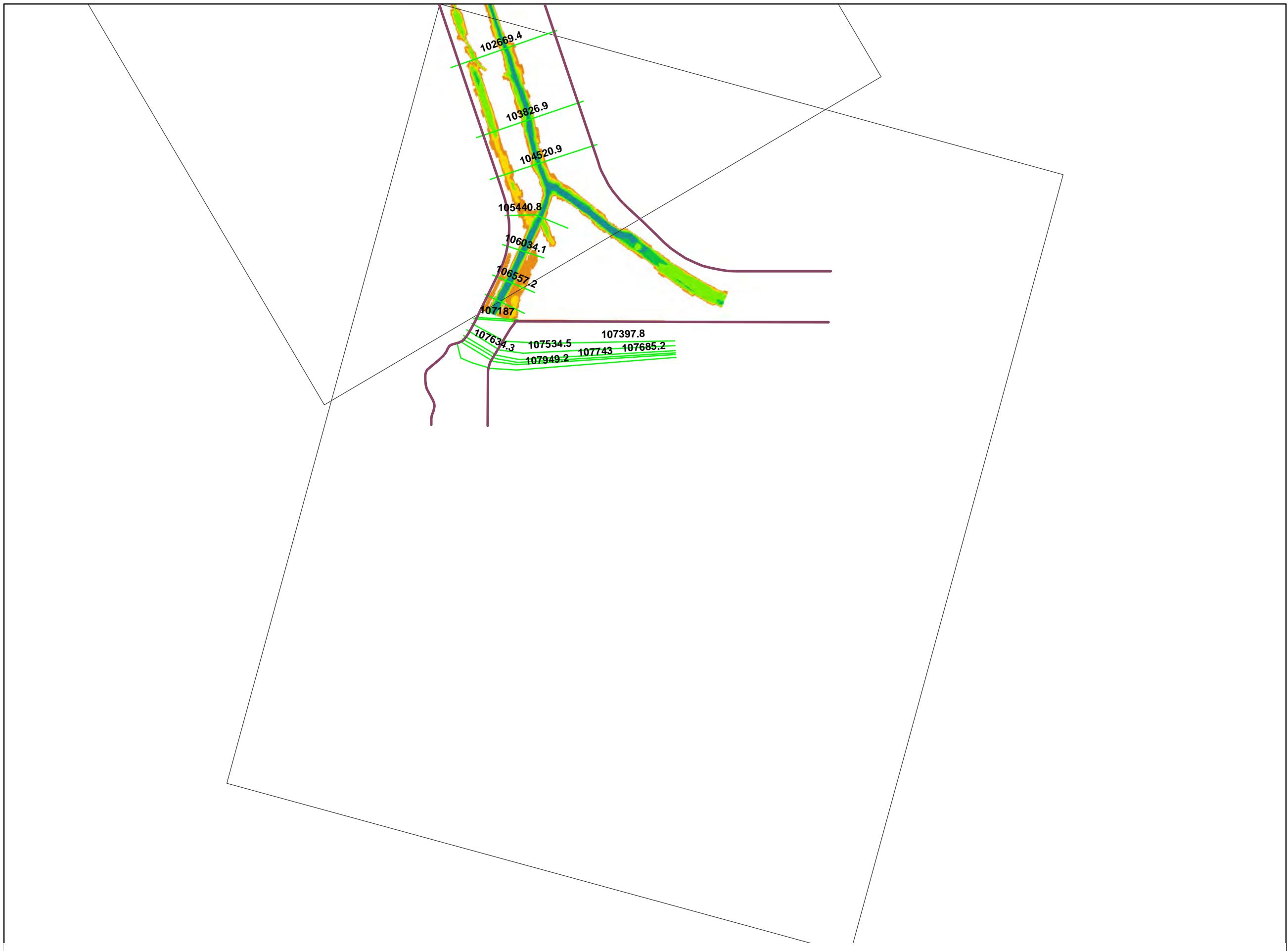
depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
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Technical Service Center
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Denver, CO





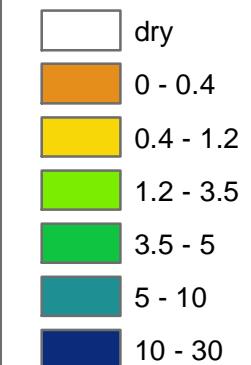
**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

depth (ft)



0 1,000 2,000
Feet

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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

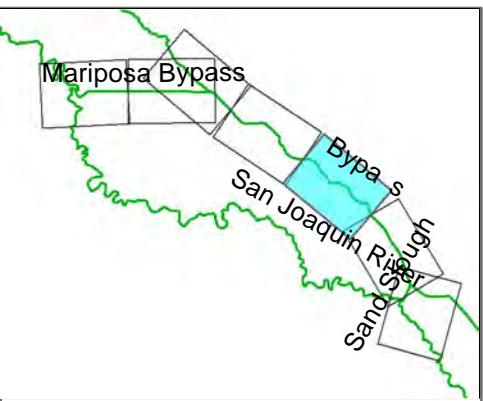
depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

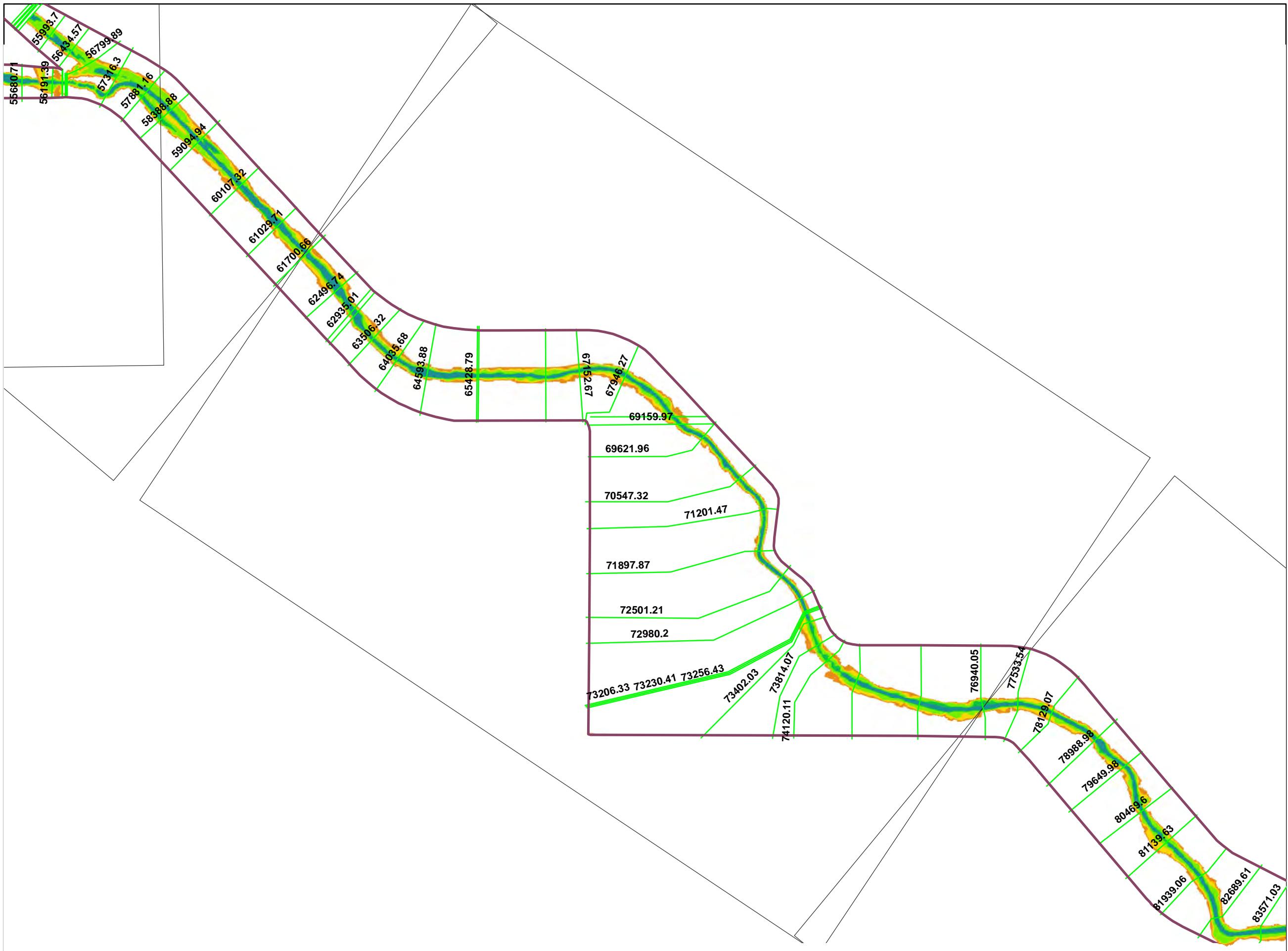
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

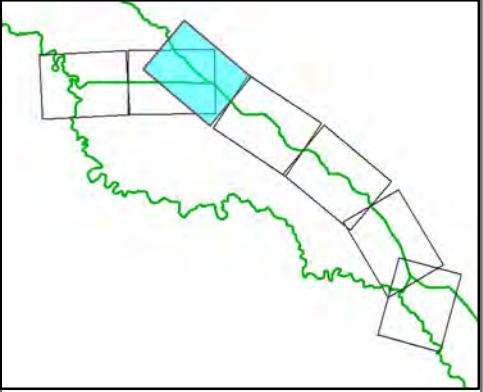
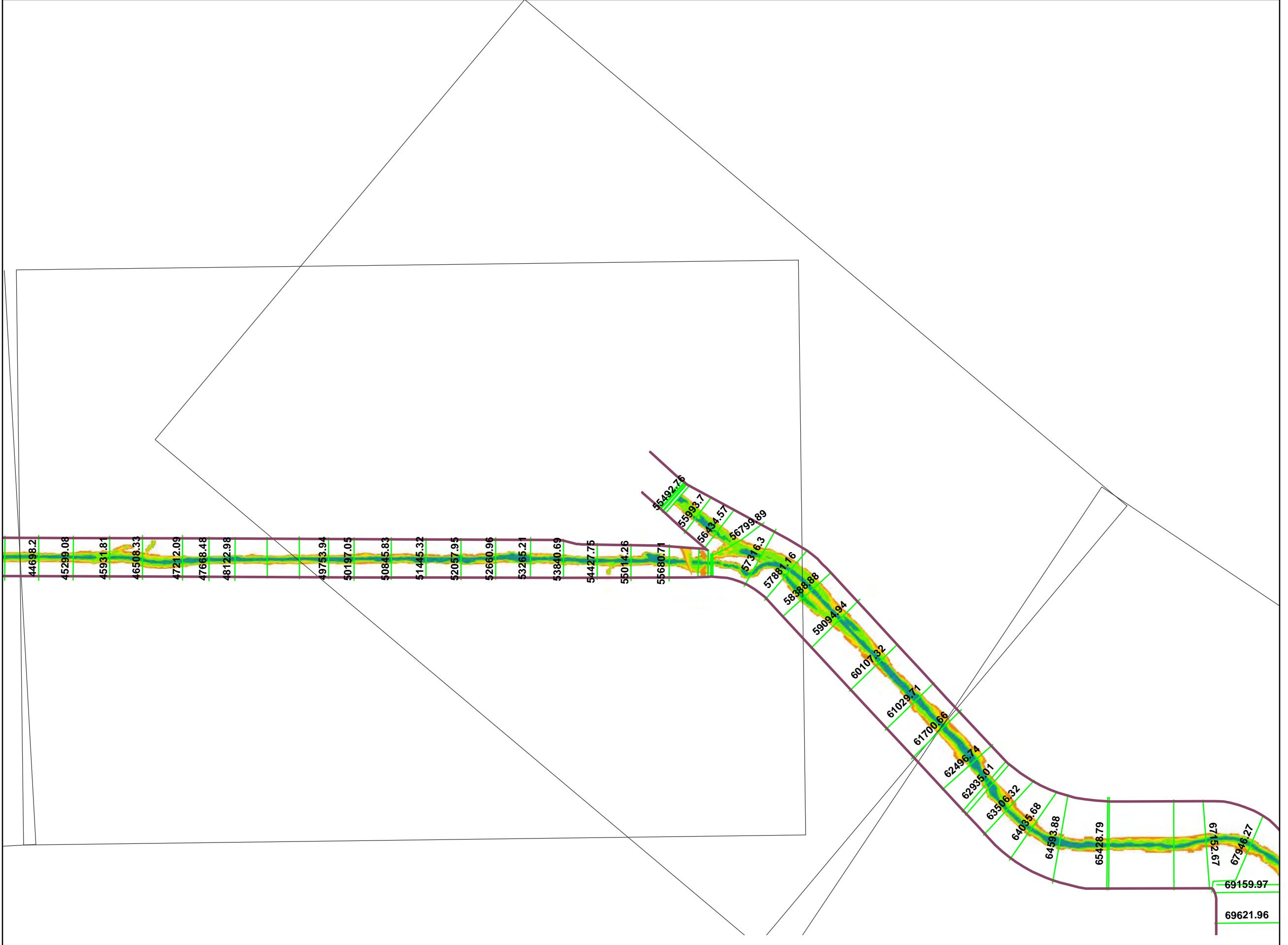
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
Hydraulics Group
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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

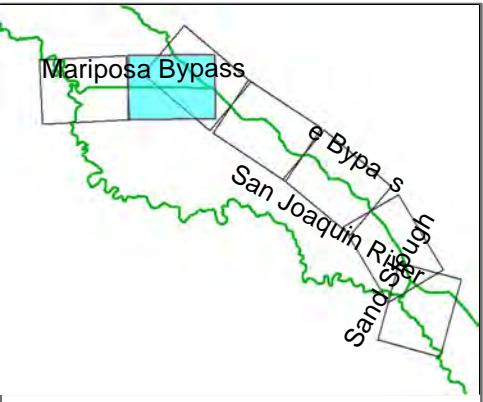
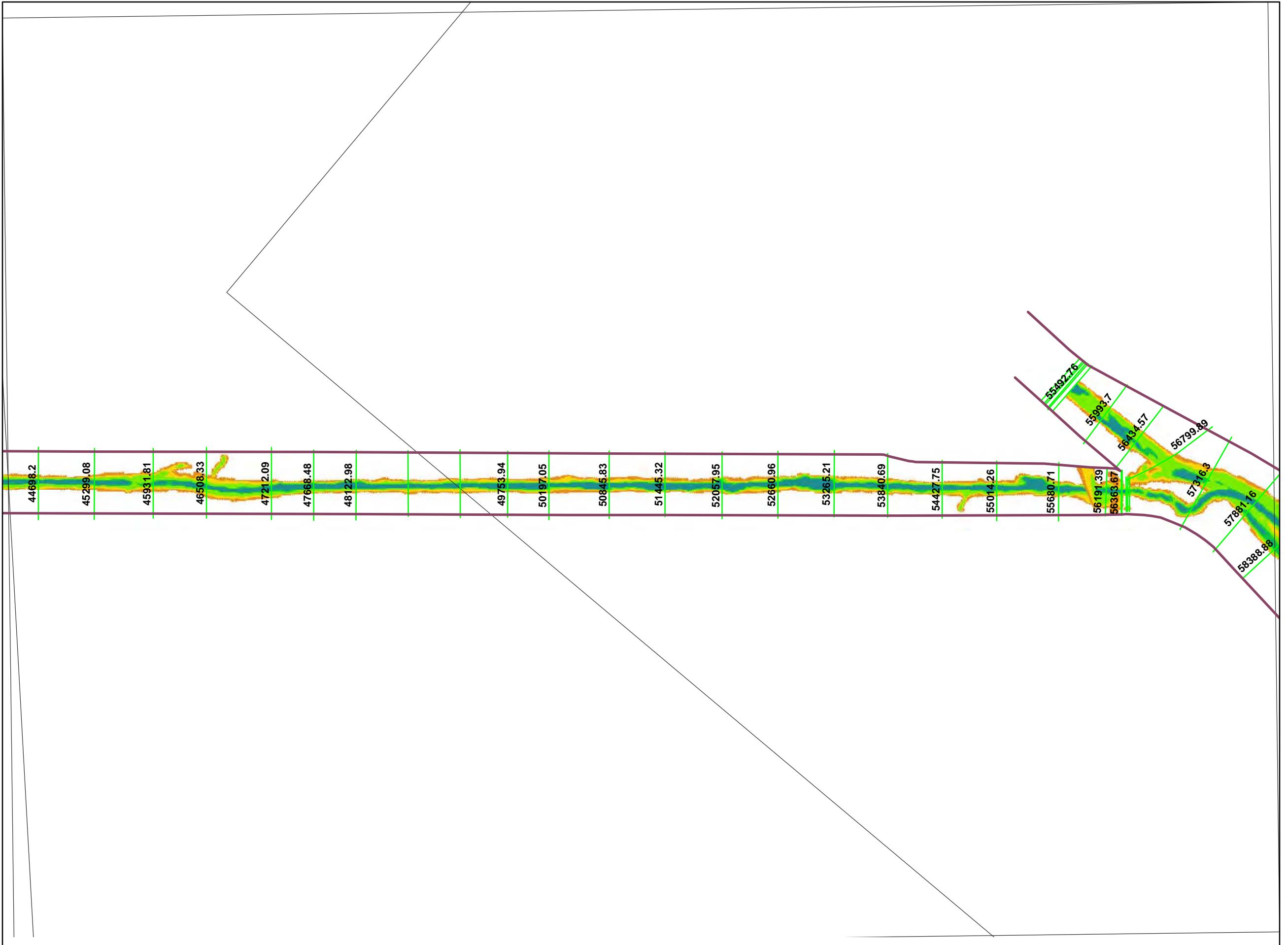
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
Hydraulics Group
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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

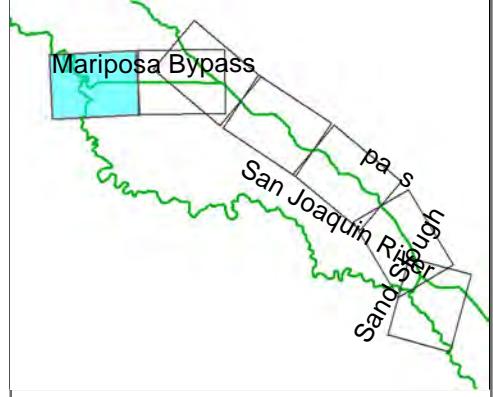
Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

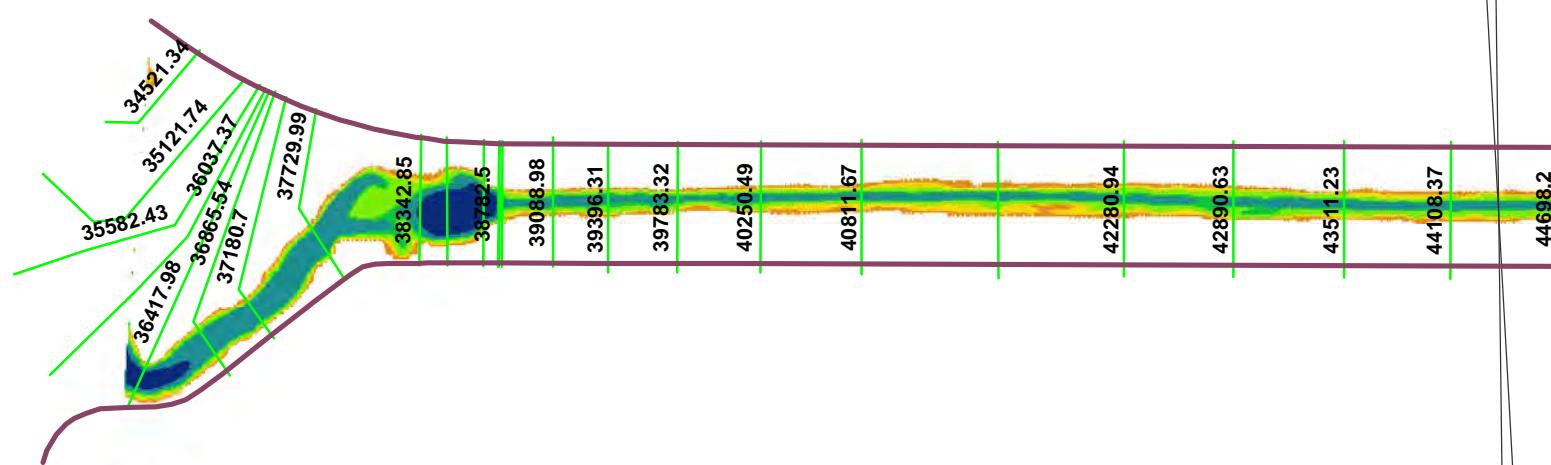
Inundation 700 cfs

depth (ft)



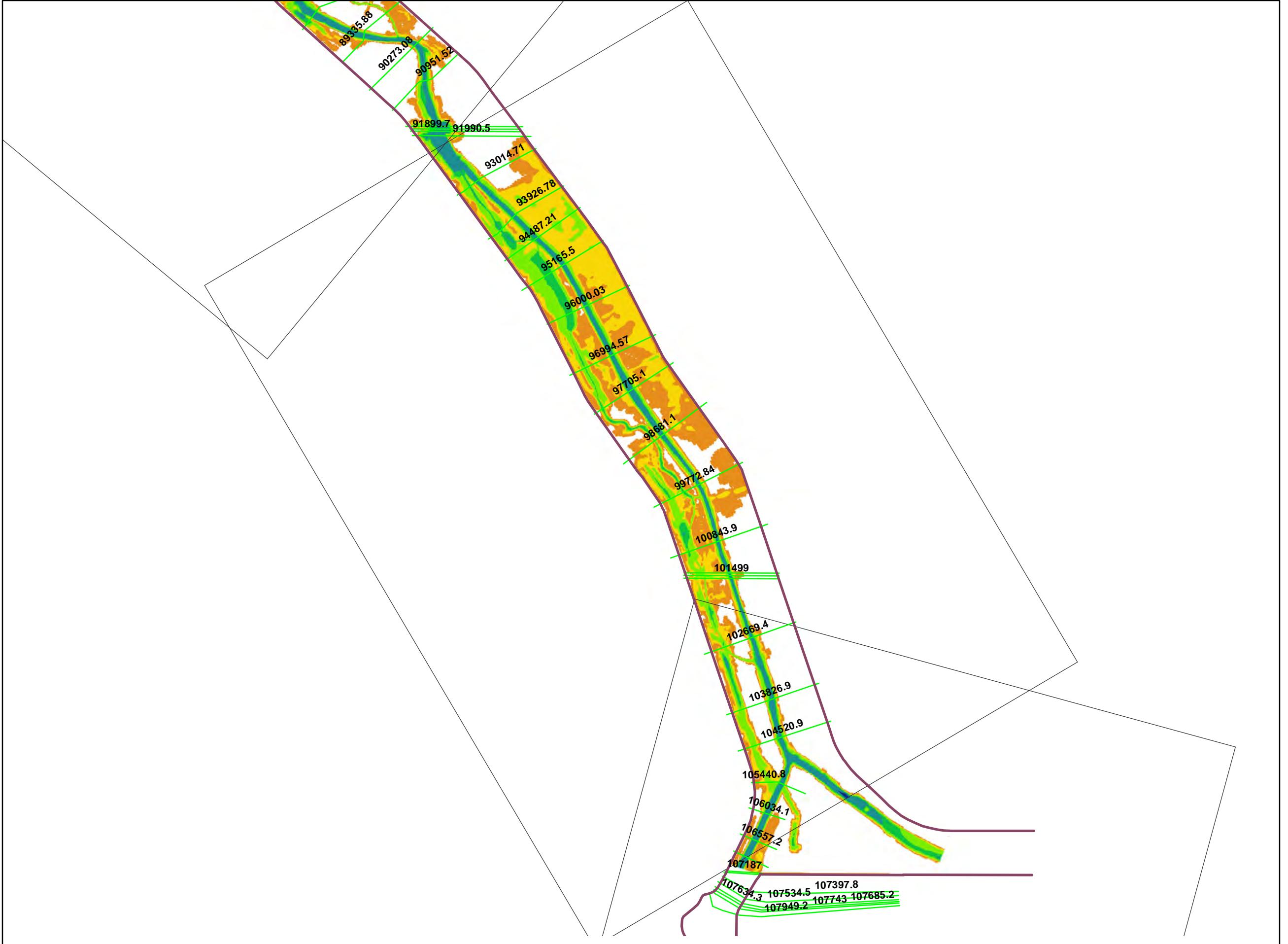
0 1,000 2,000
Feet

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Technical Service Center
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See Page 1



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

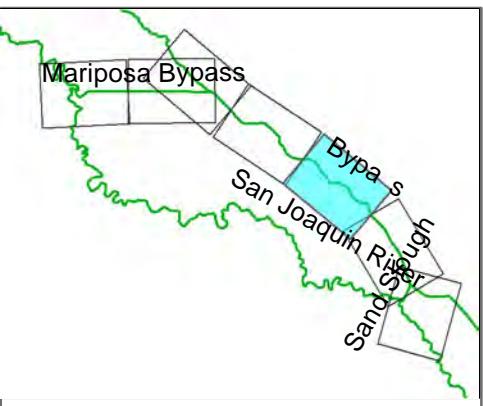
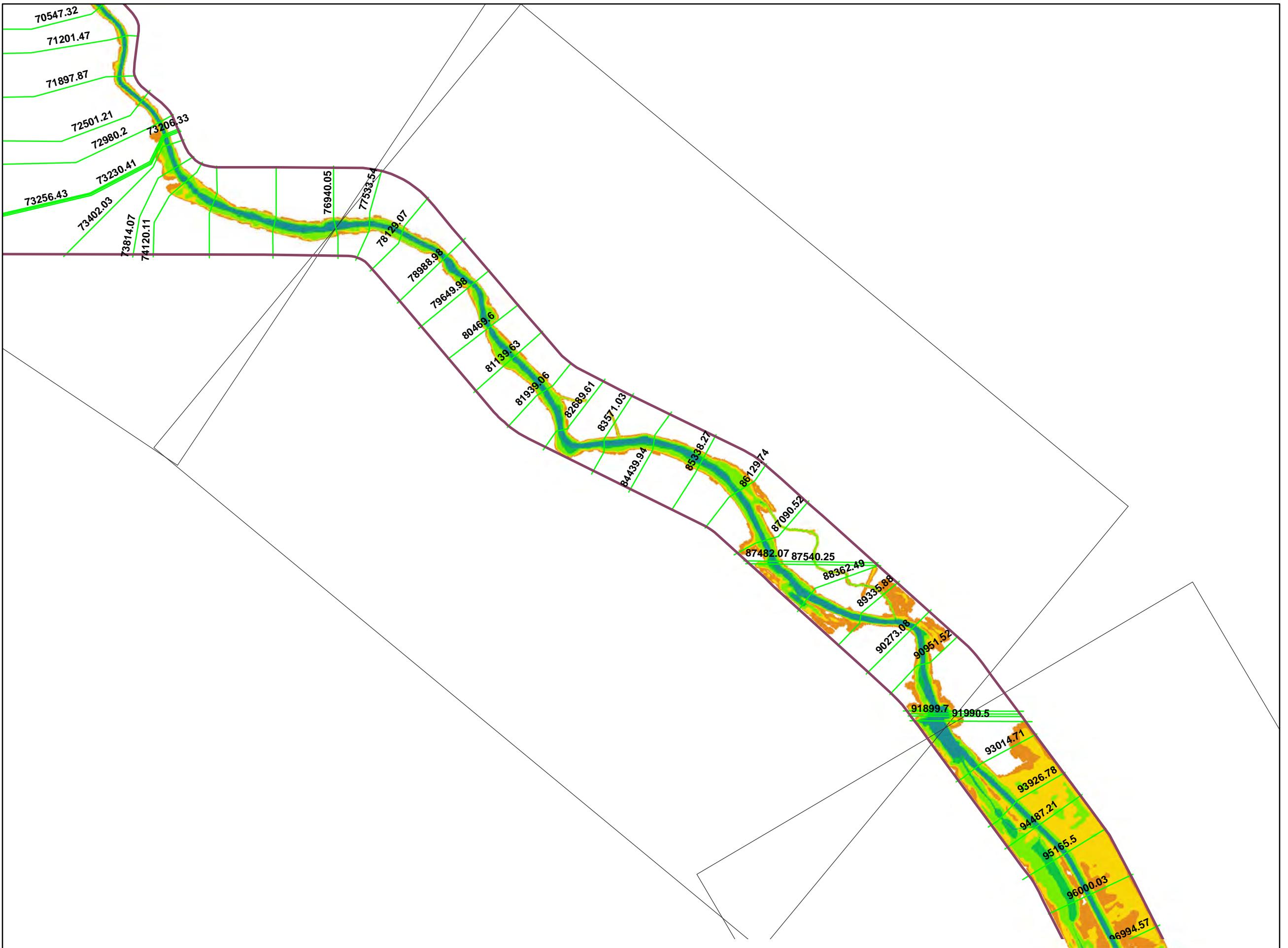
Inundation 1200 cfs

depth (ft)



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Technical Service Center
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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

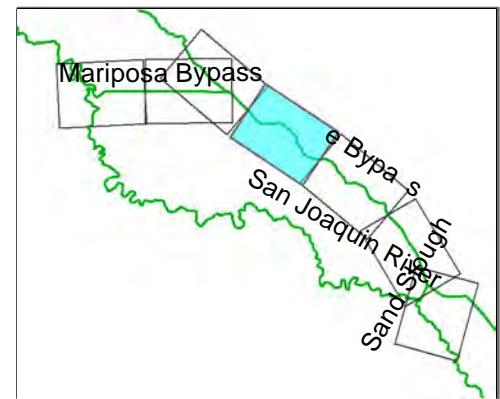
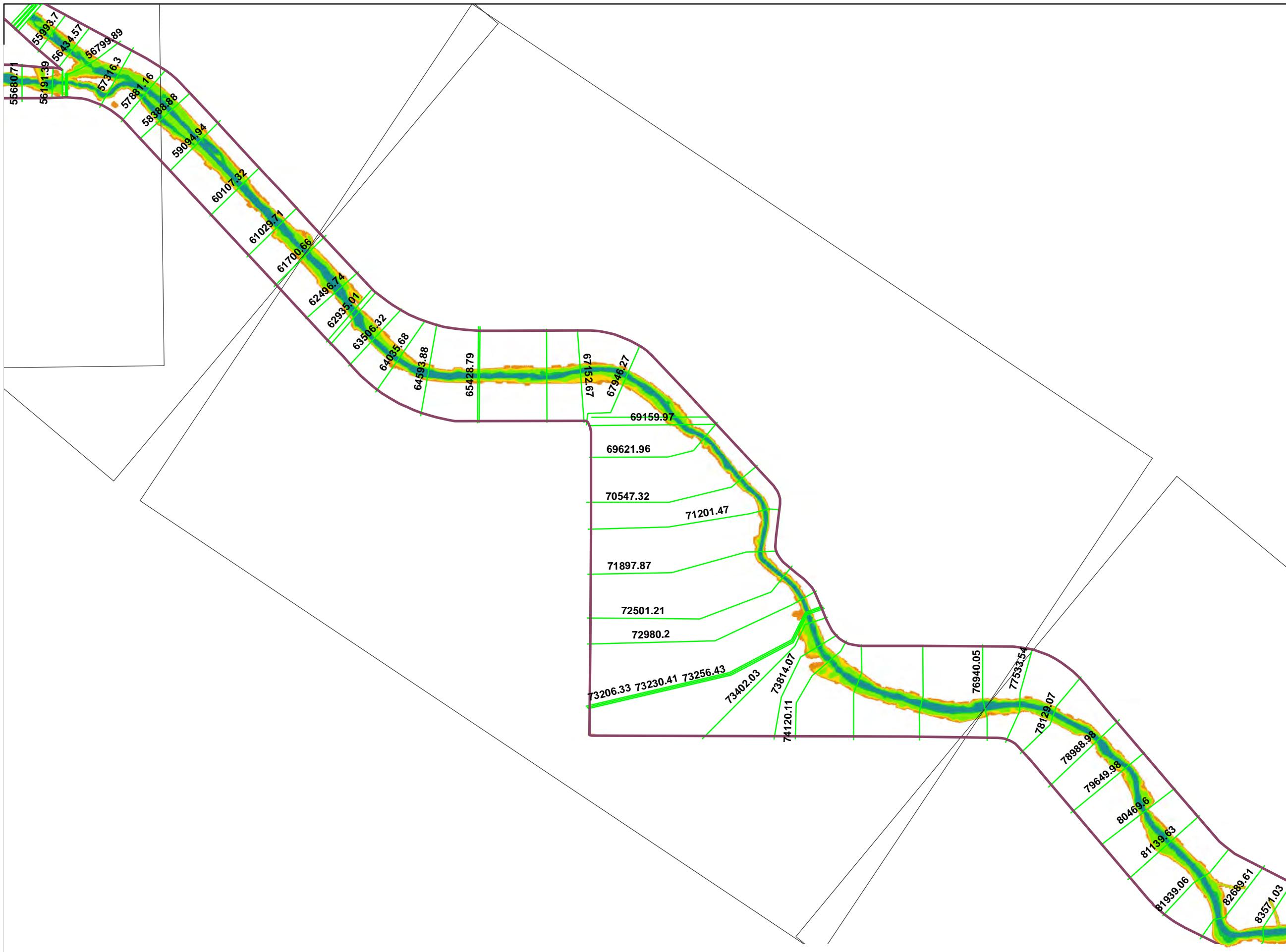
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

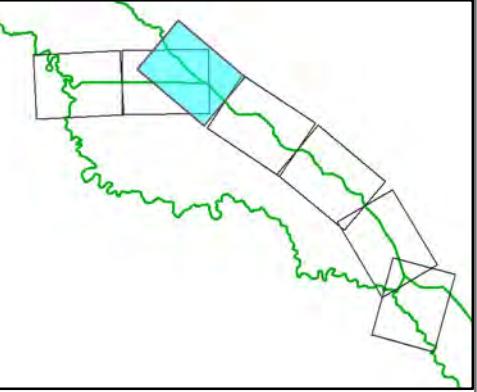
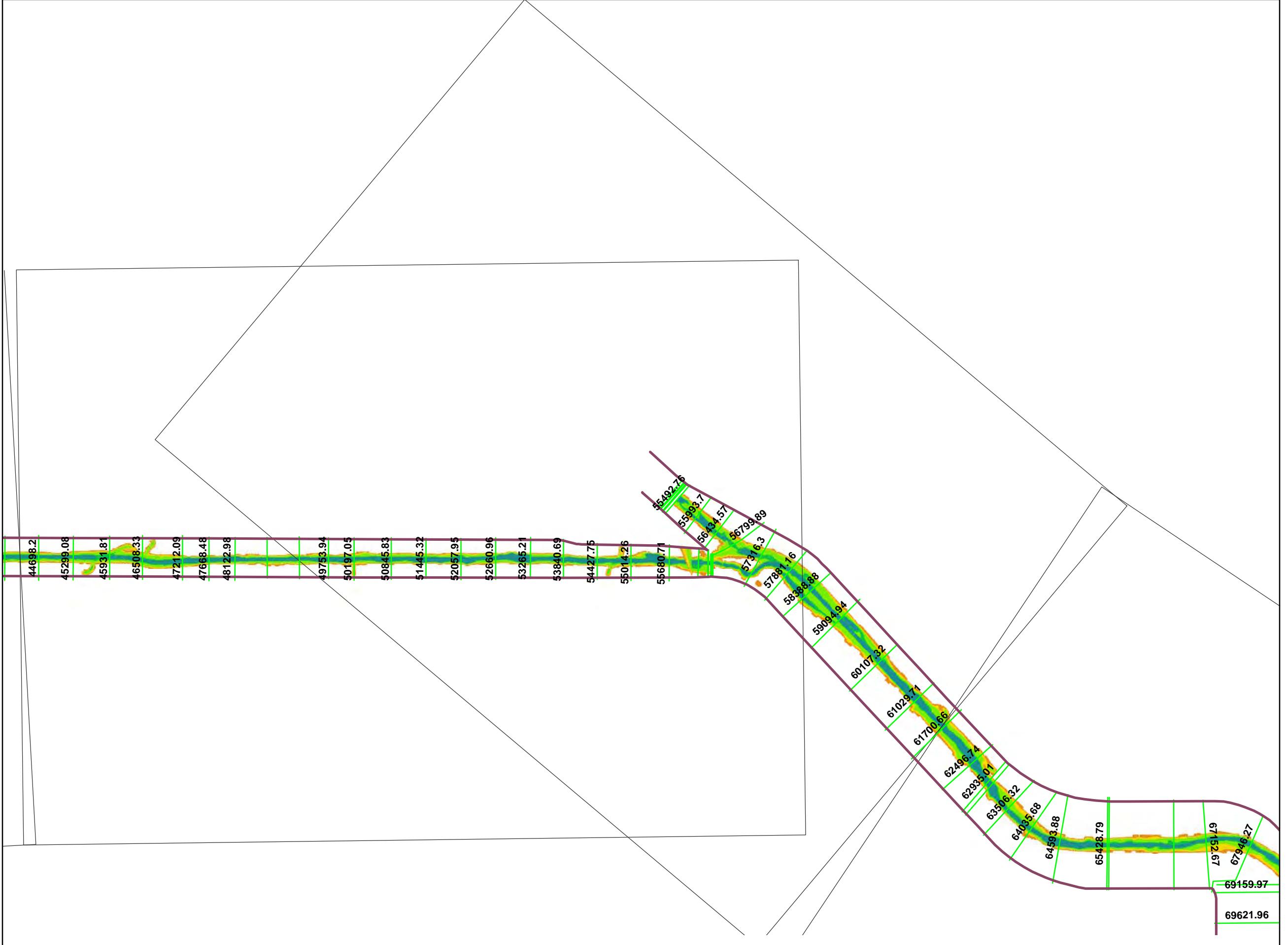
Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO

See Page 6



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

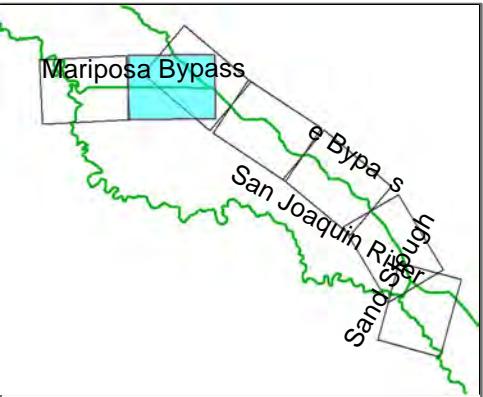
Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
Hydraulics Group
Technical Service Center
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See Page 7



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

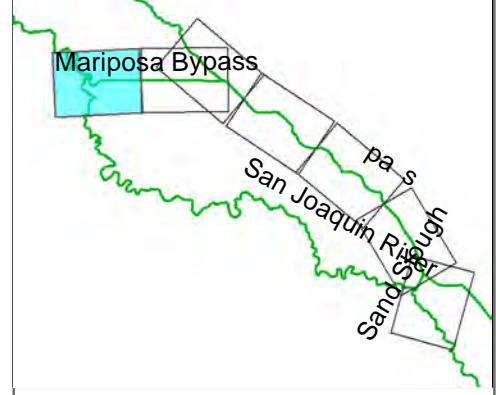
Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

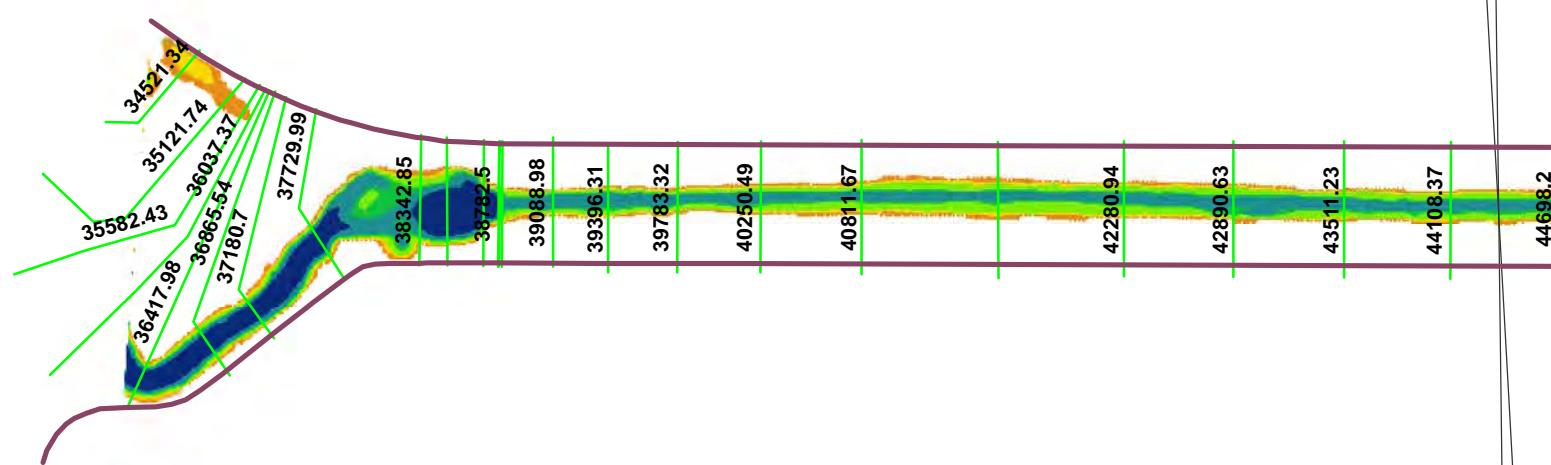
Inundation 1200 cfs

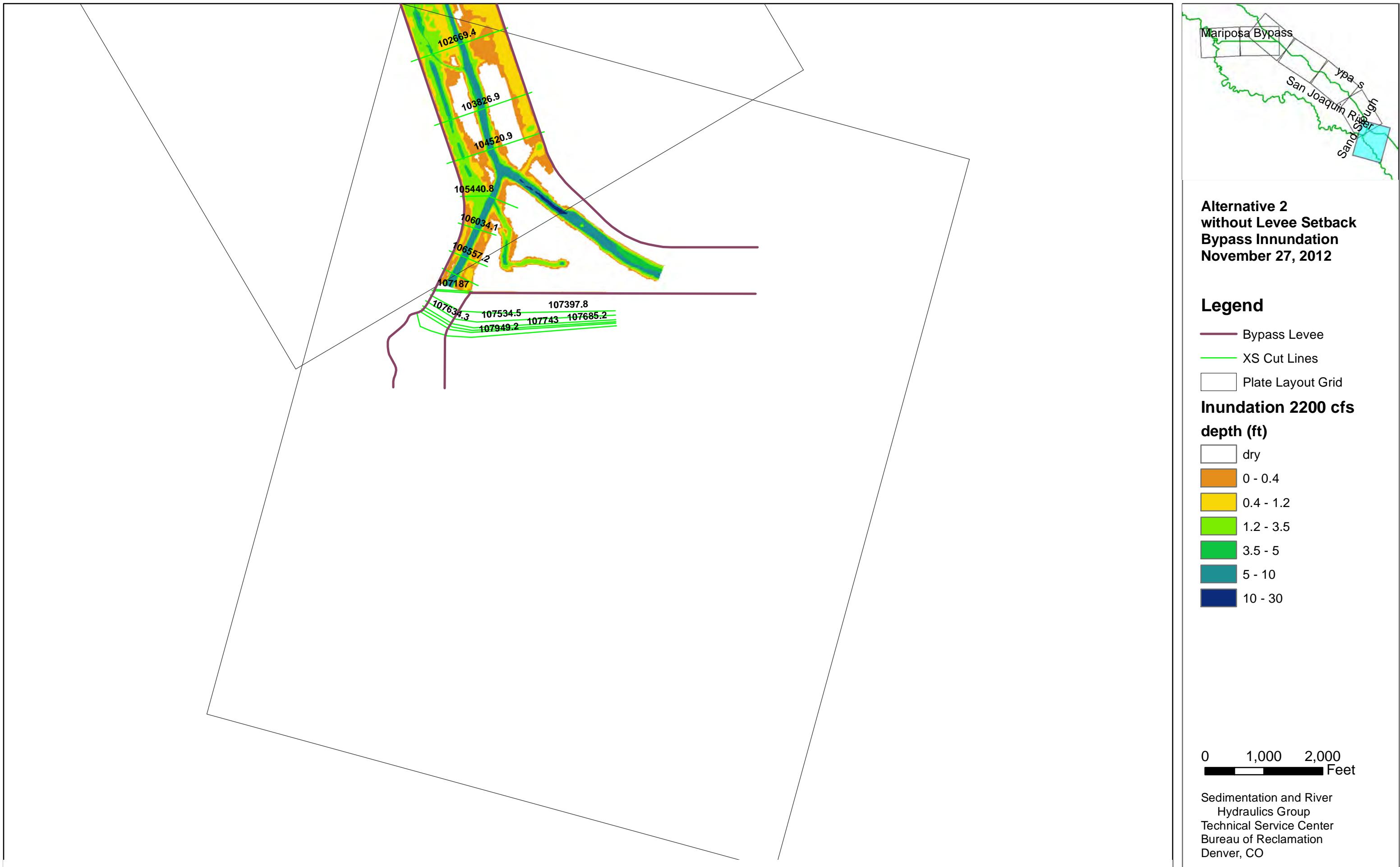
depth (ft)



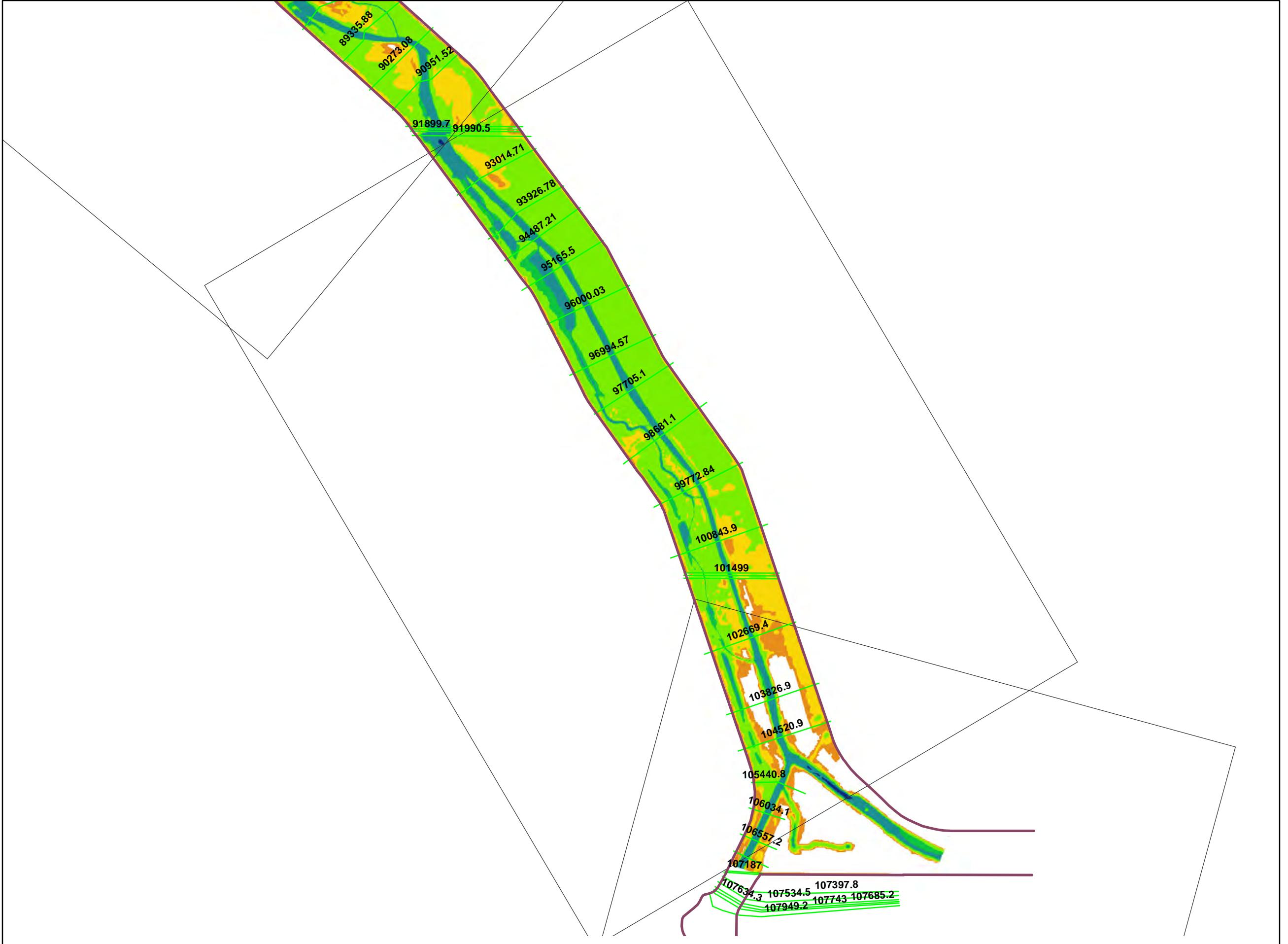
0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





See Page 3



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

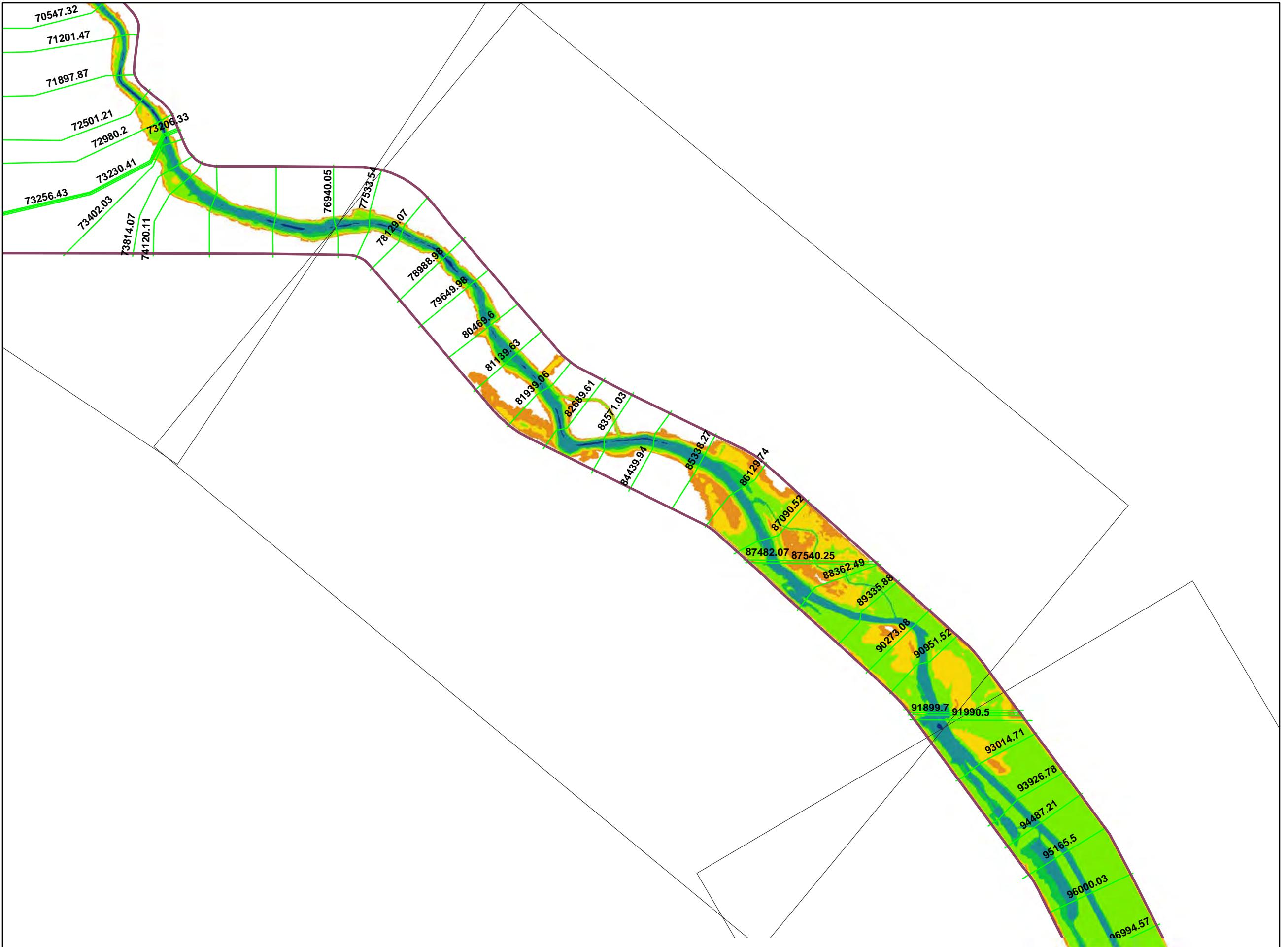
depth (ft)



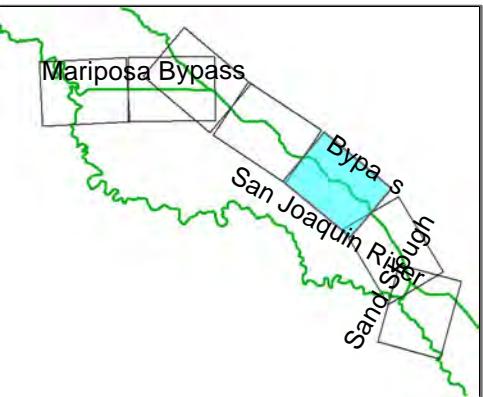
0 1,000 2,000
Feet

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Technical Service Center
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Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

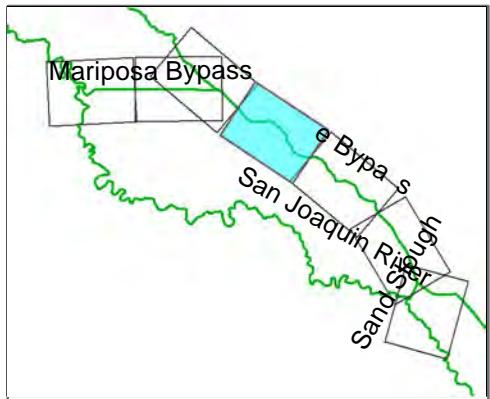
Inundation 2200 cfs

depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

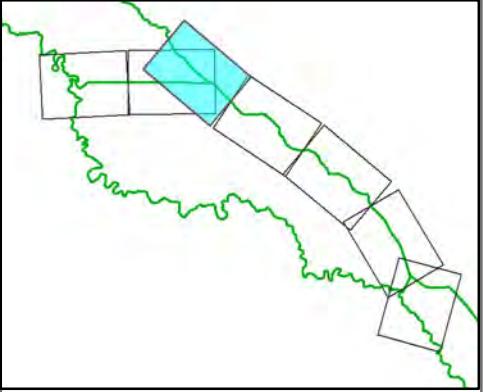
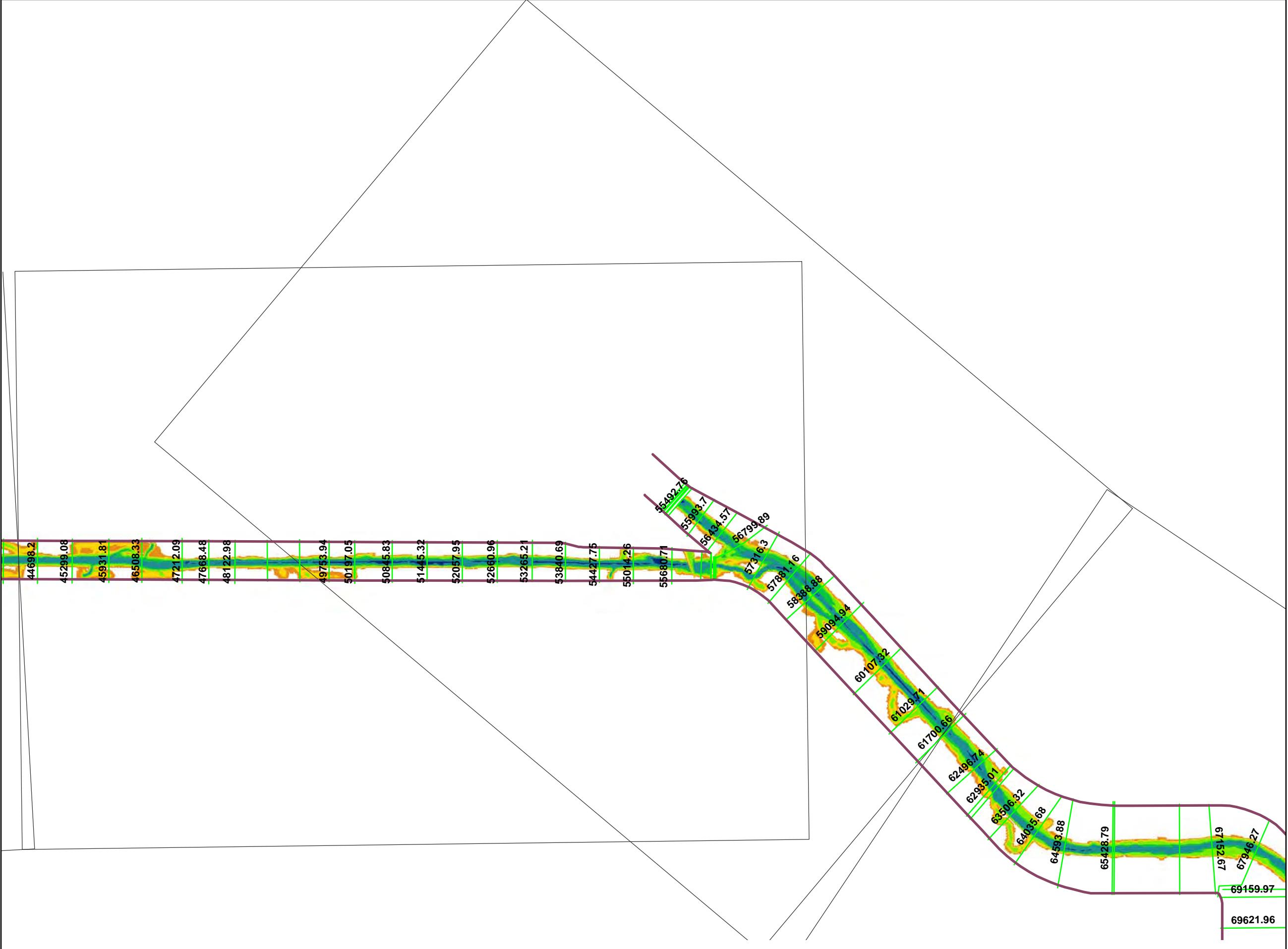
- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

See Page 6



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

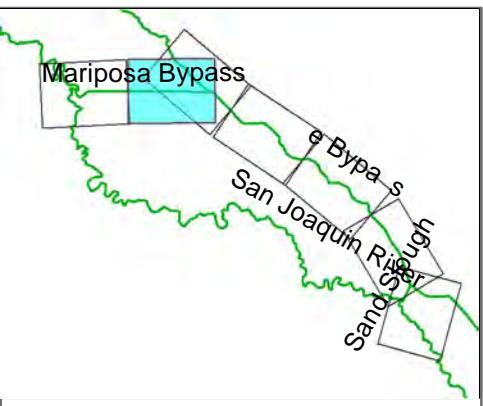
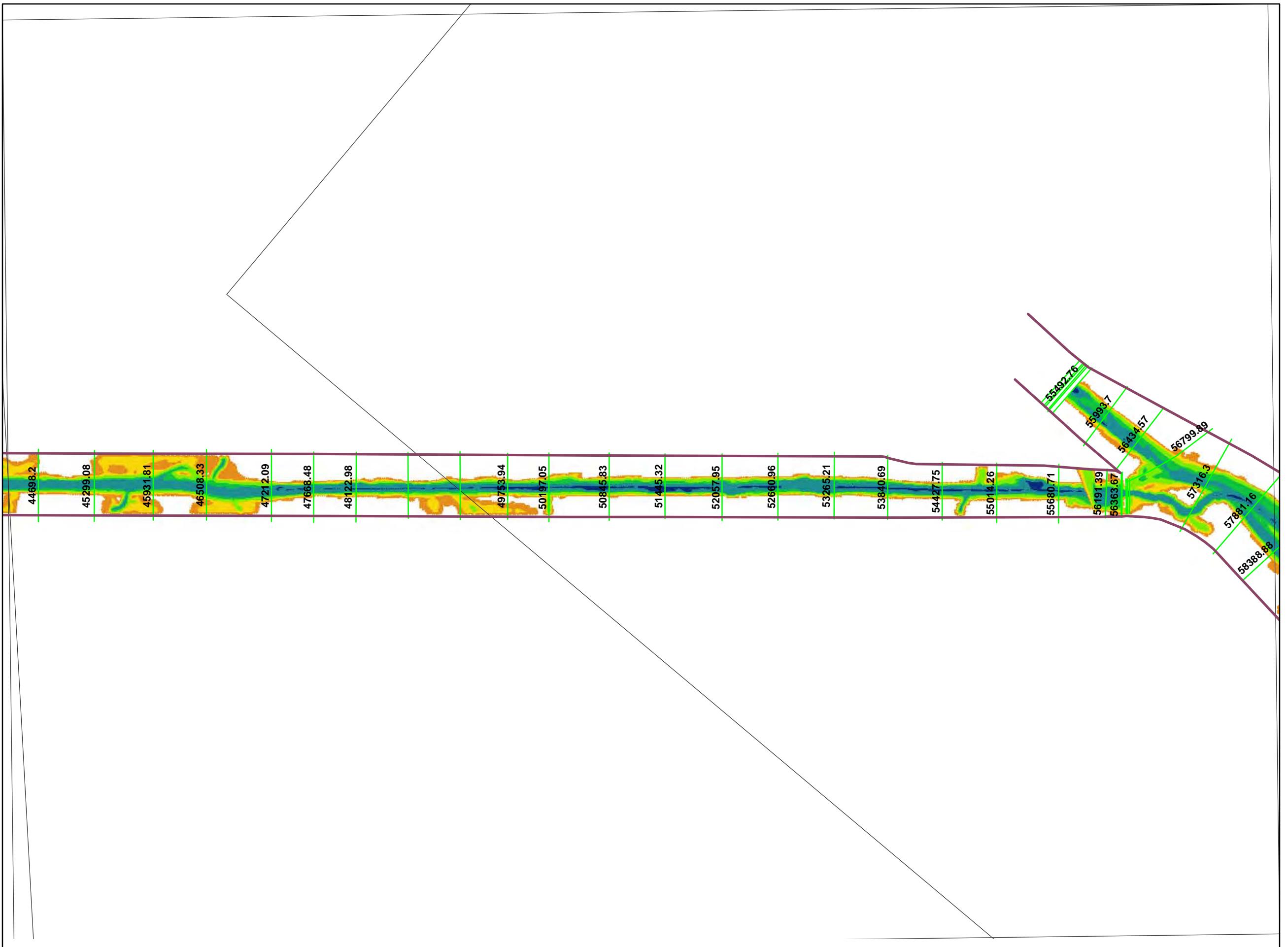
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Technical Service Center
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See Page 7



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

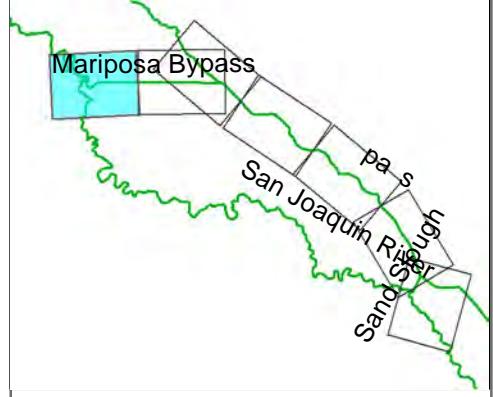
Inundation 2200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Hydraulics Group
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Denver, CO



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

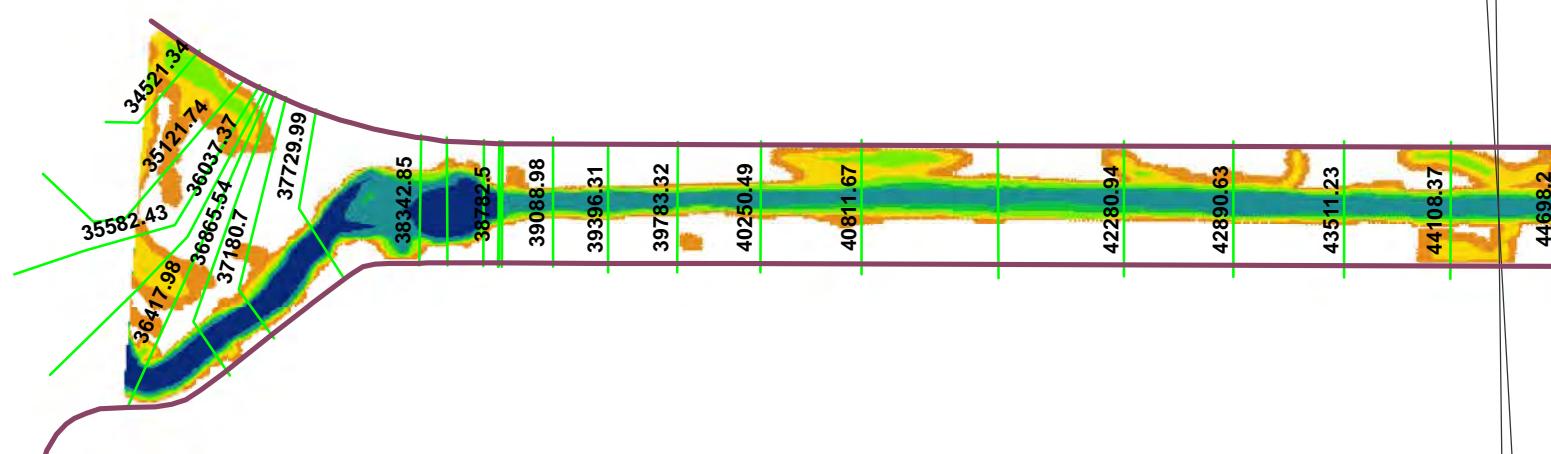
Inundation 2200 cfs

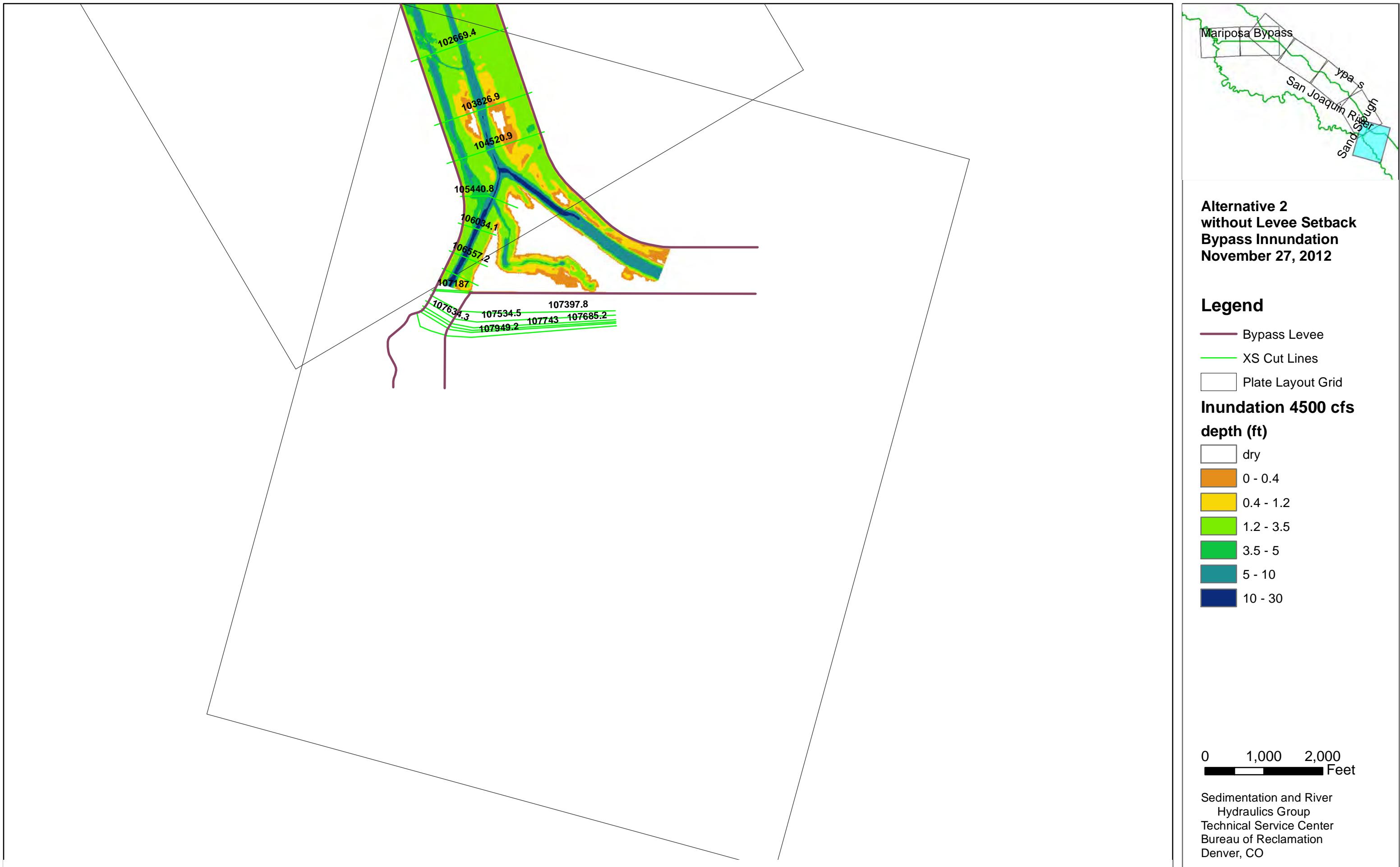
depth (ft)



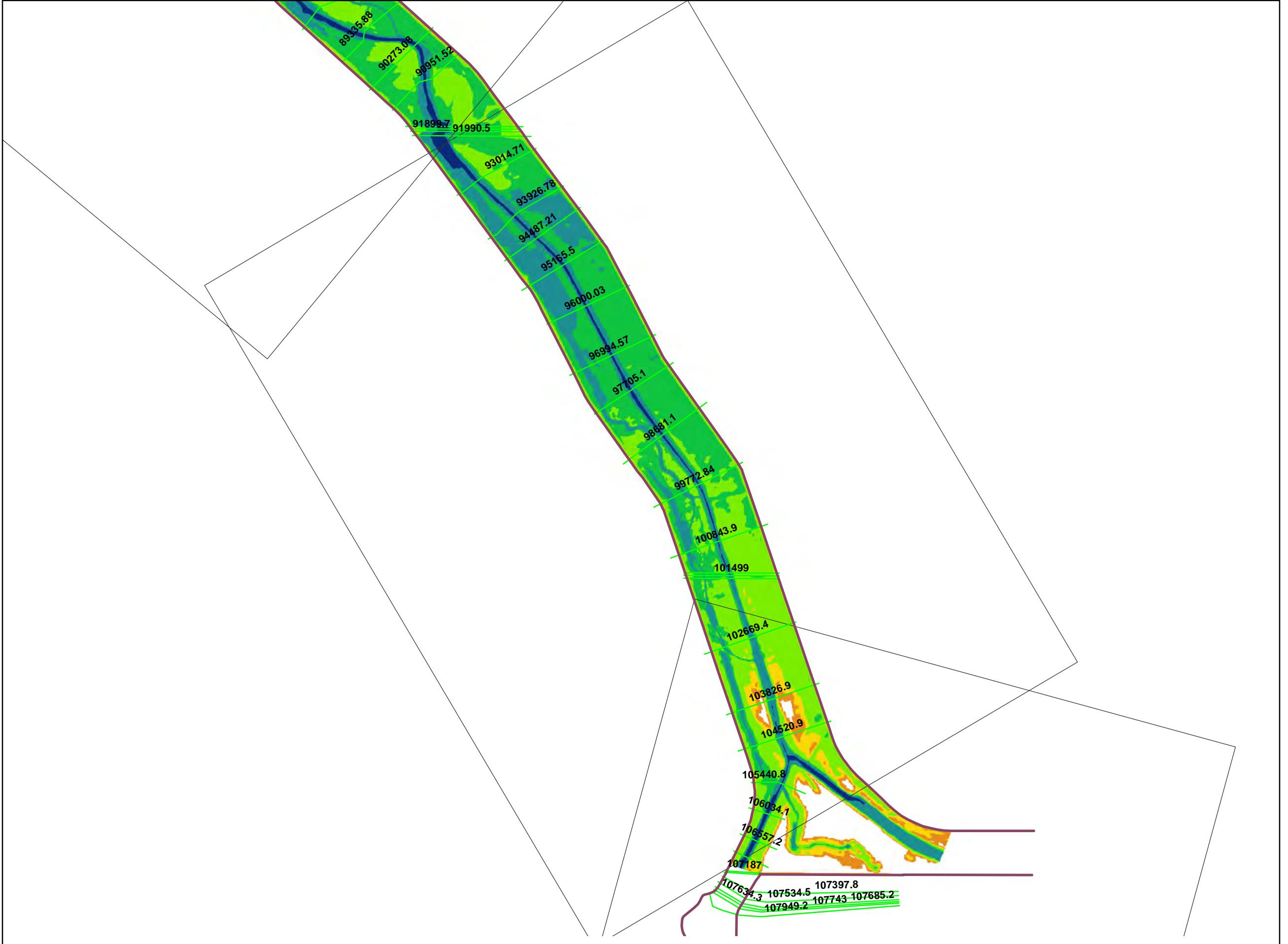
0 1,000 2,000
Feet

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See Page 3



See Page 1



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

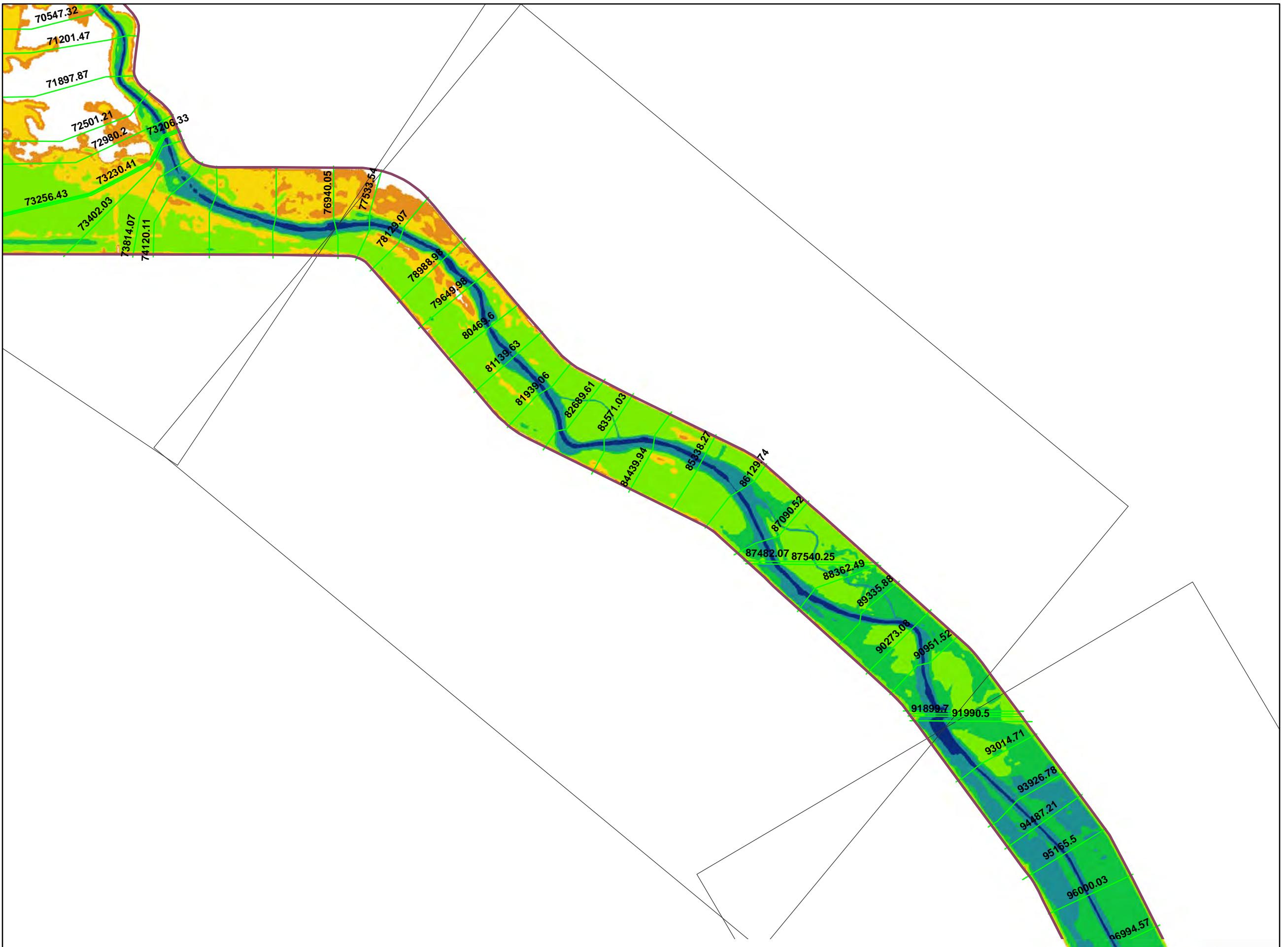
depth (ft)



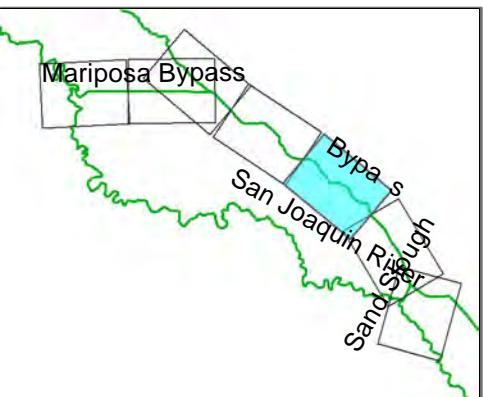
0 1,000 2,000
Feet

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Technical Service Center
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See Page 2



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

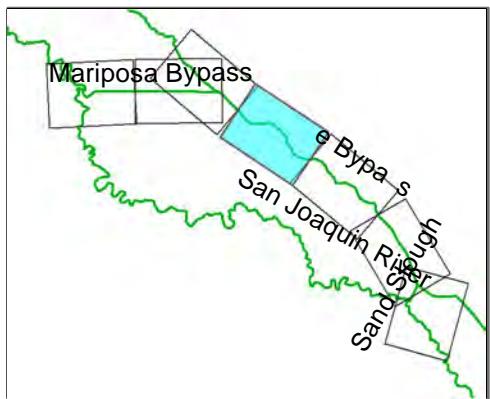
Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

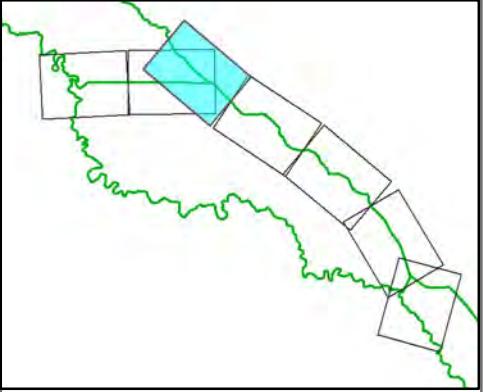
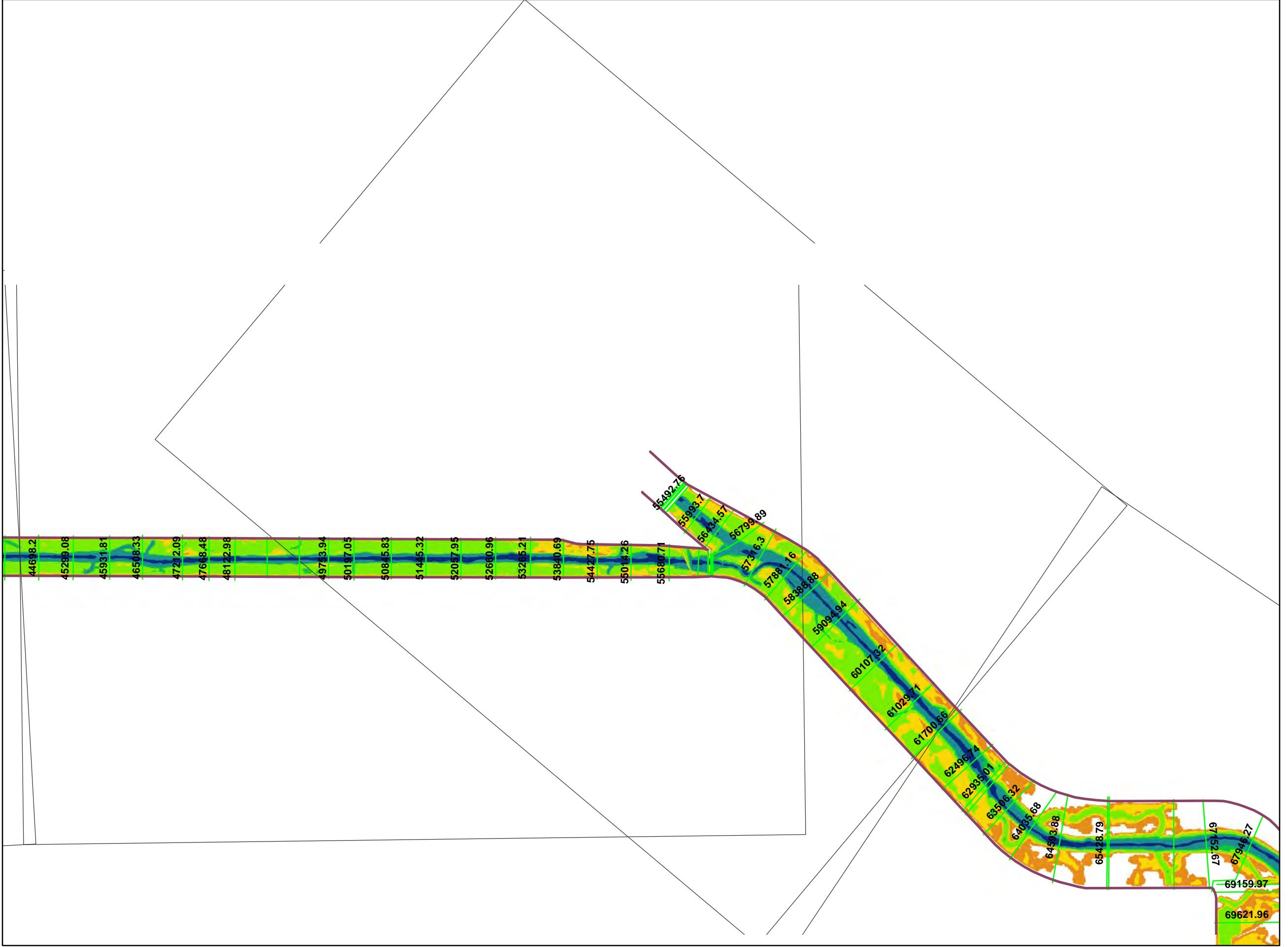
0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012

See Page 6



**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

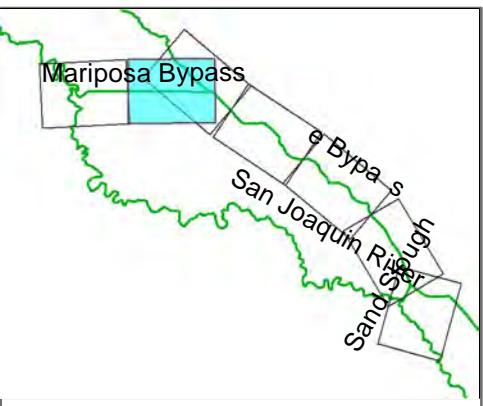
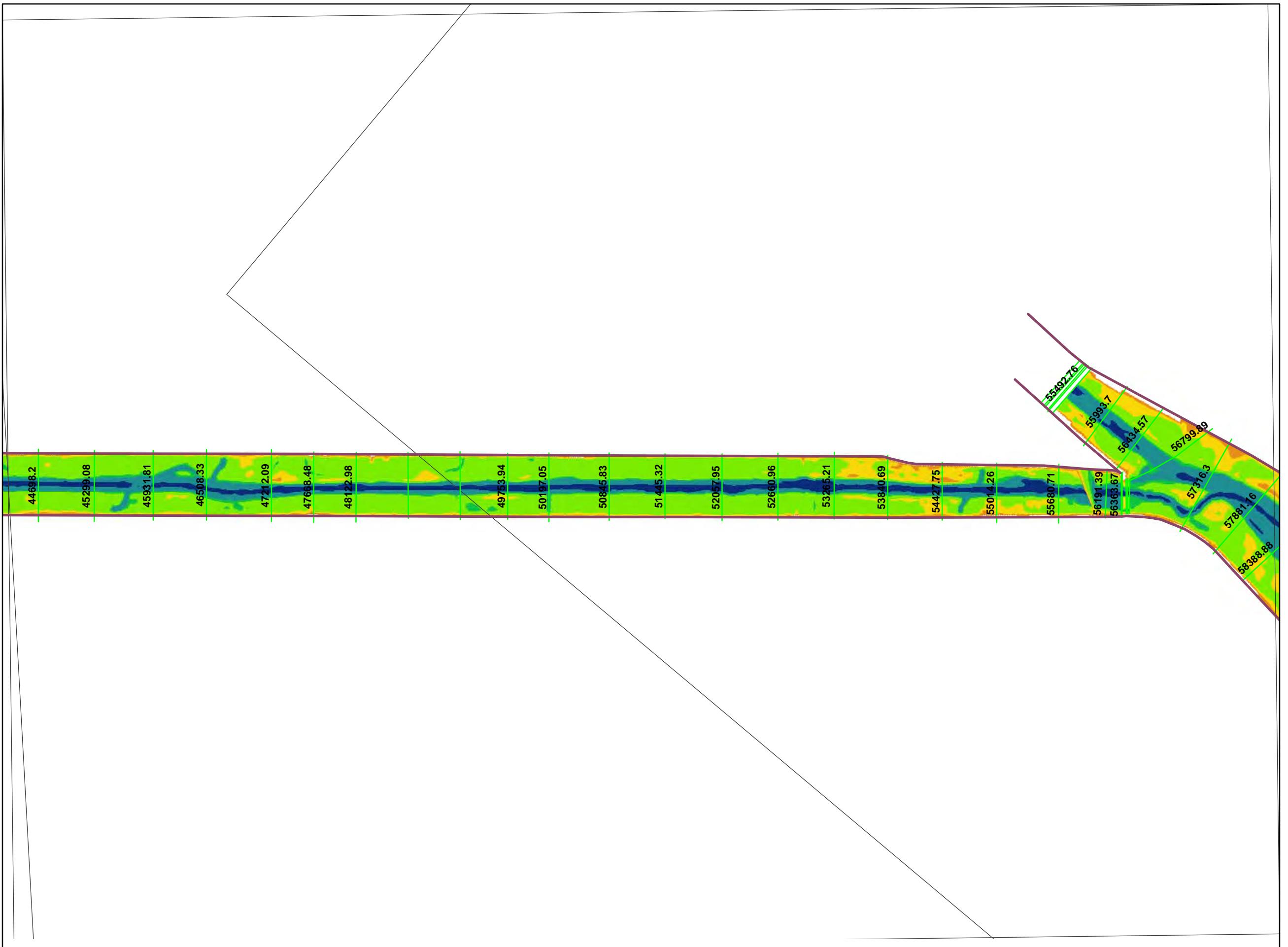
Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
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**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
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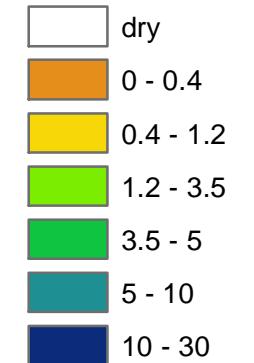
**Alternative 2
without Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee
- XS Cut Lines
- Plate Layout Grid

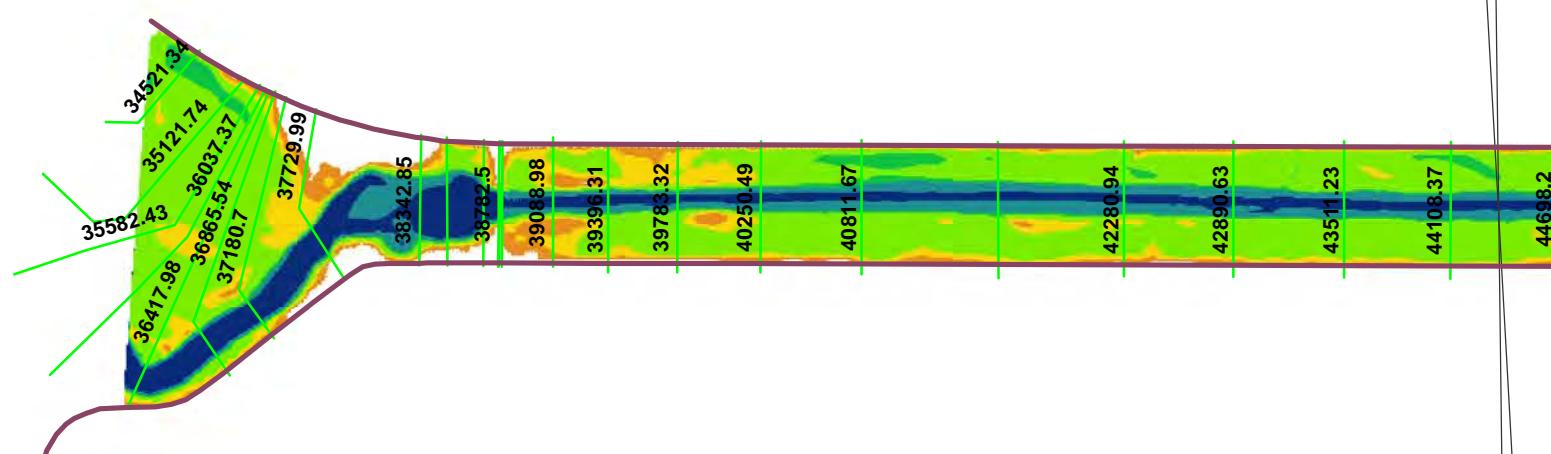
Inundation 4500 cfs

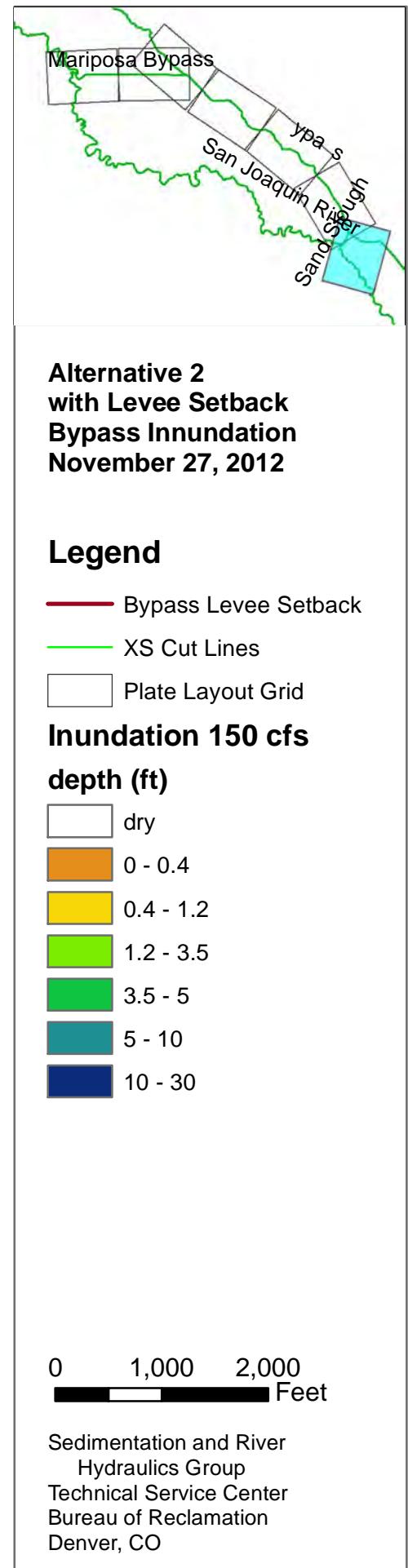
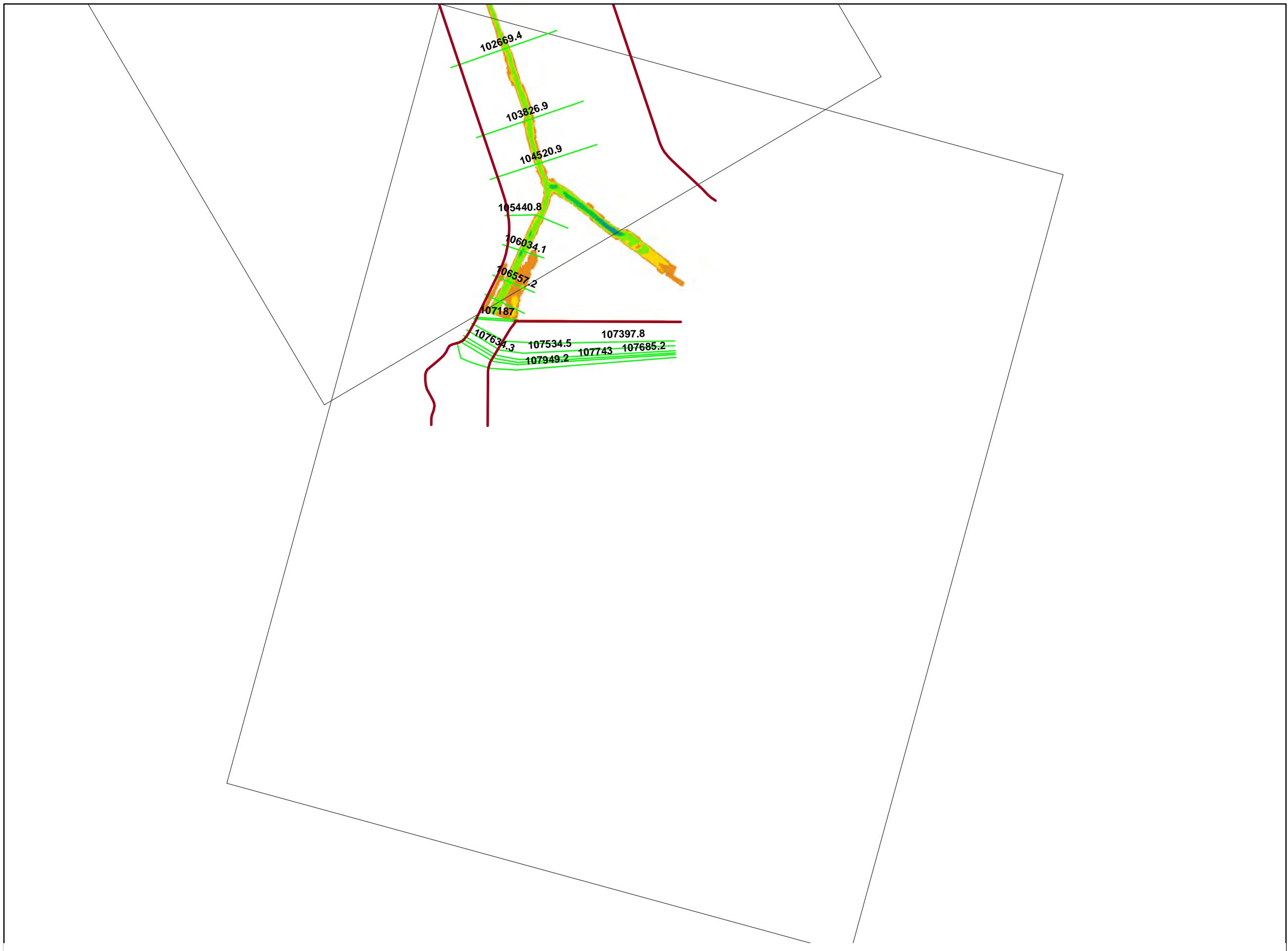
depth (ft)



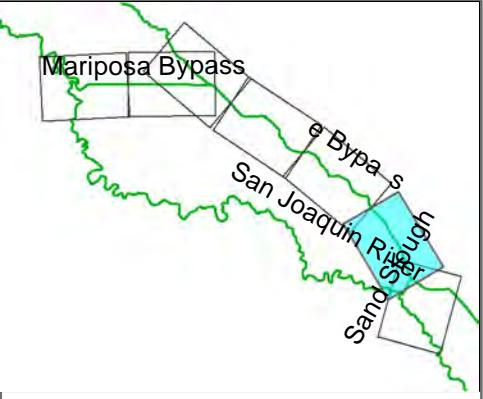
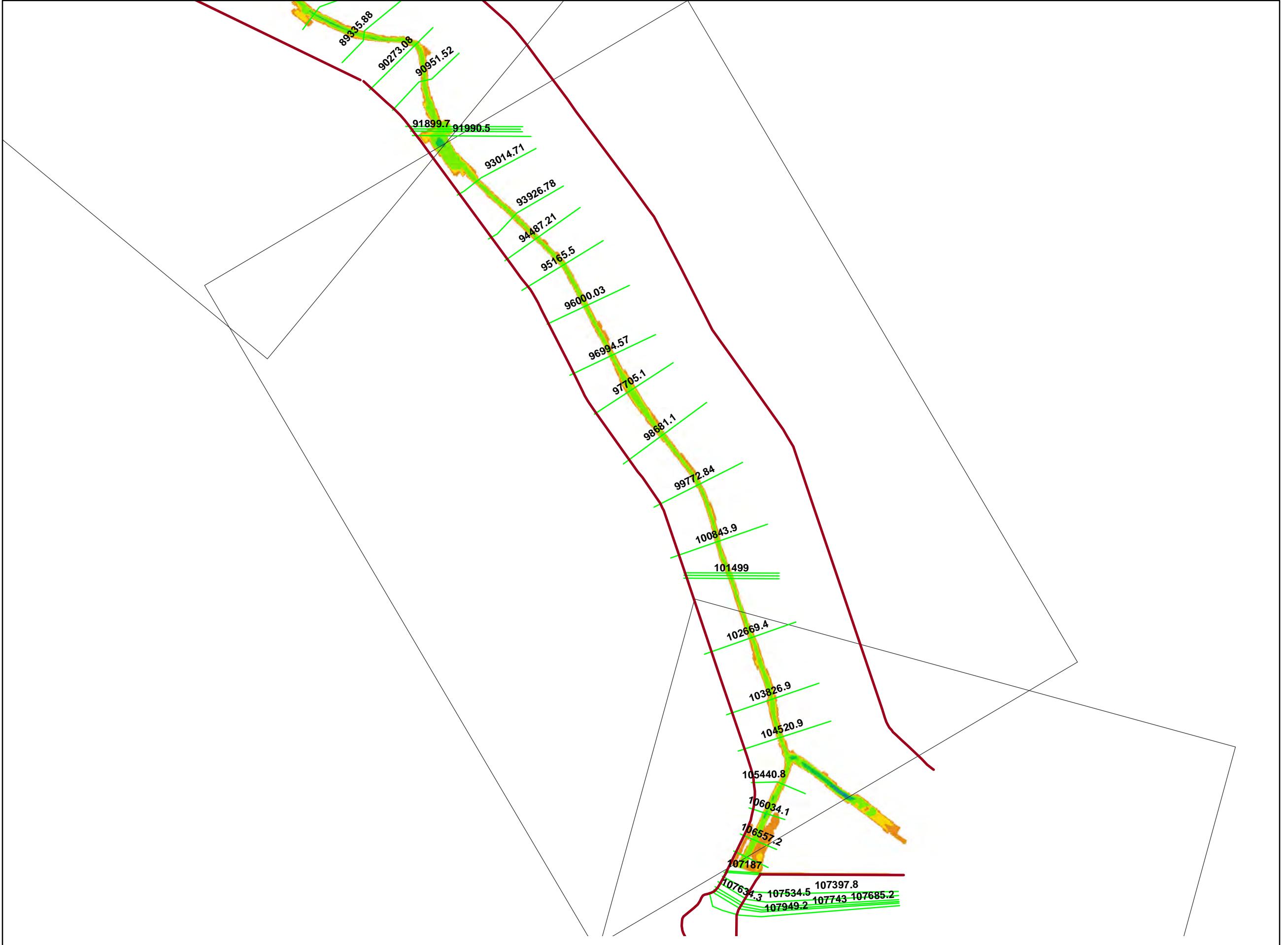
0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





See Page 3



Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

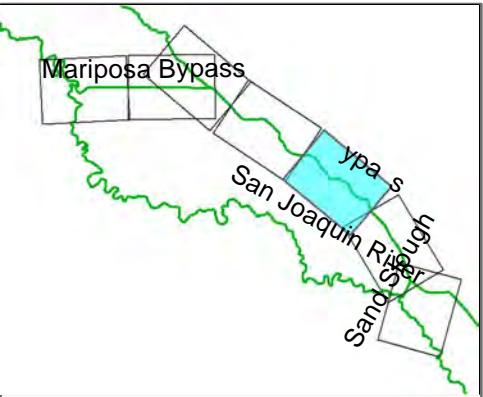
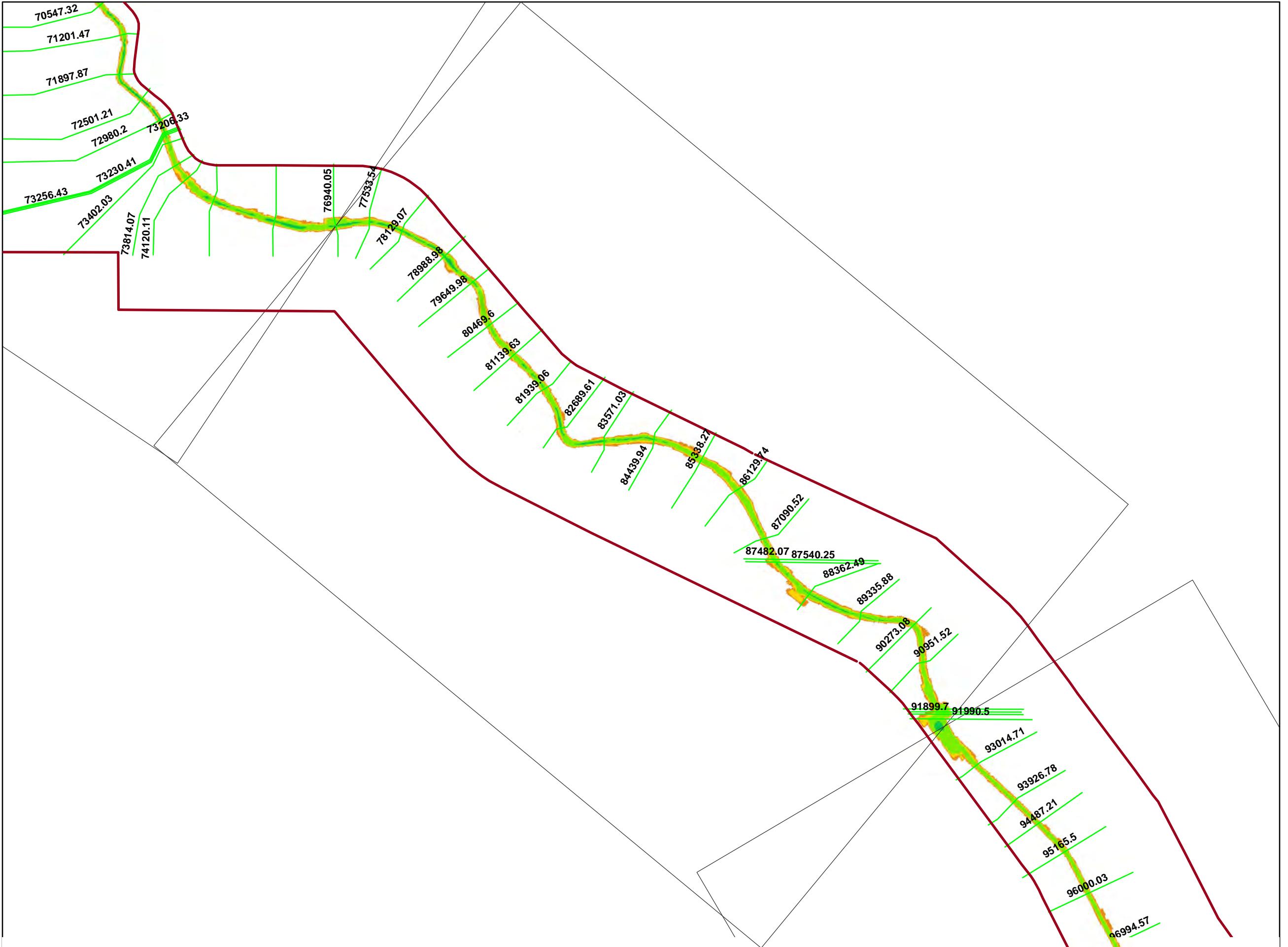
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

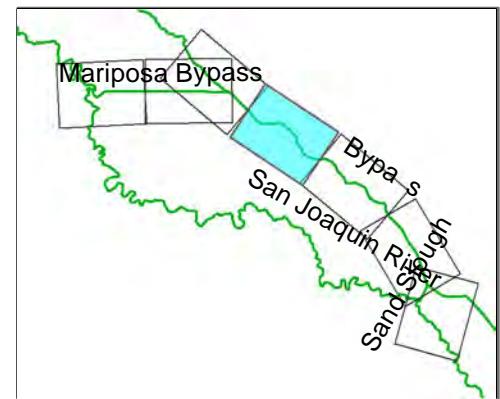
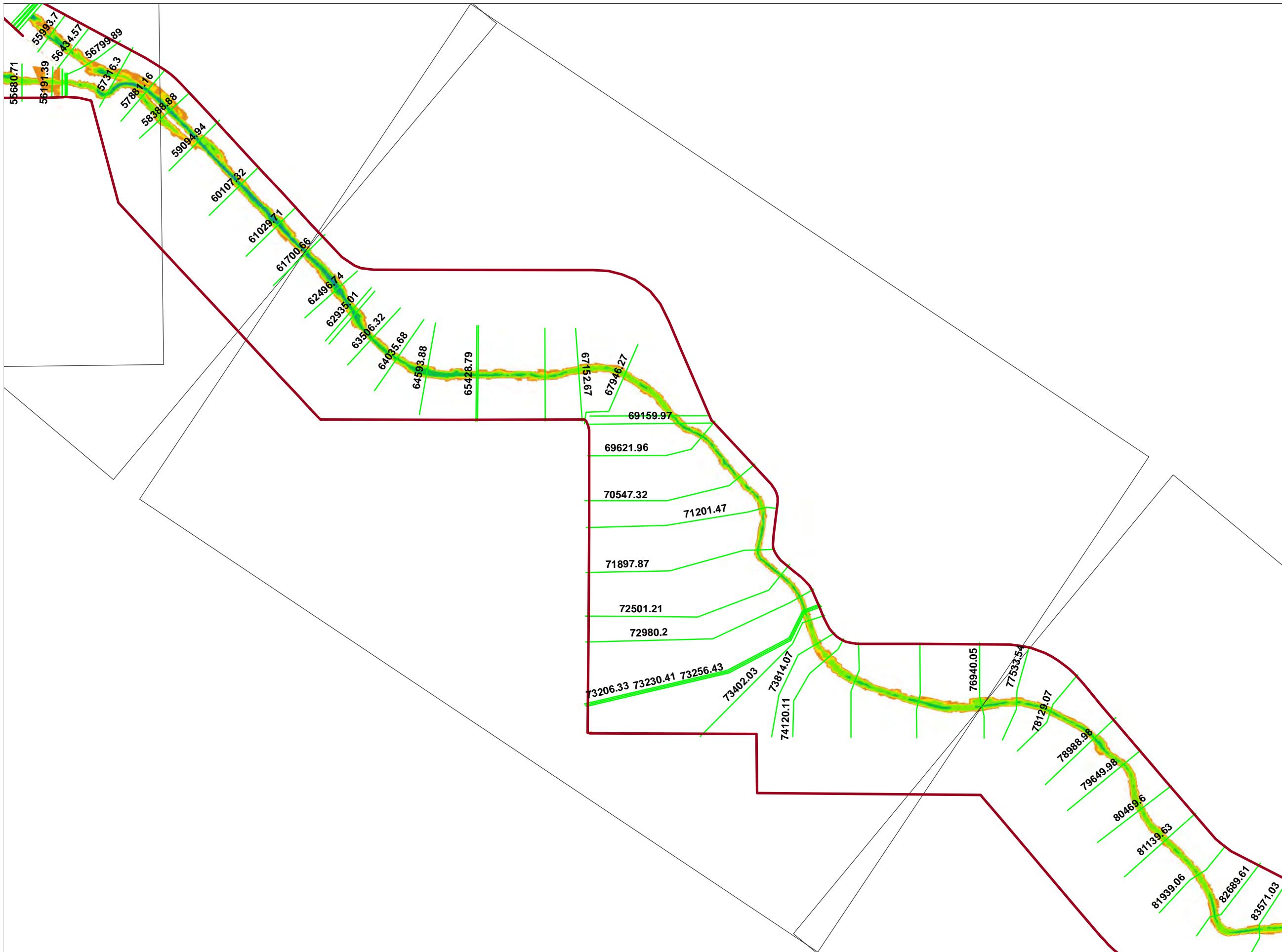
- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO

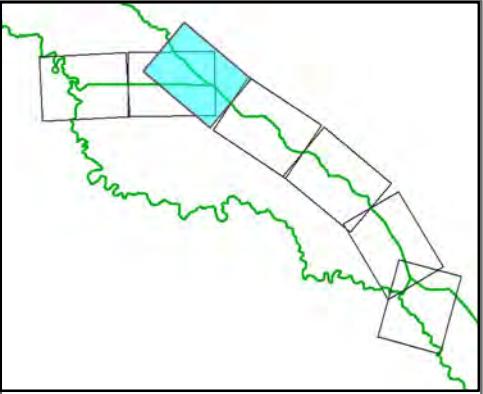
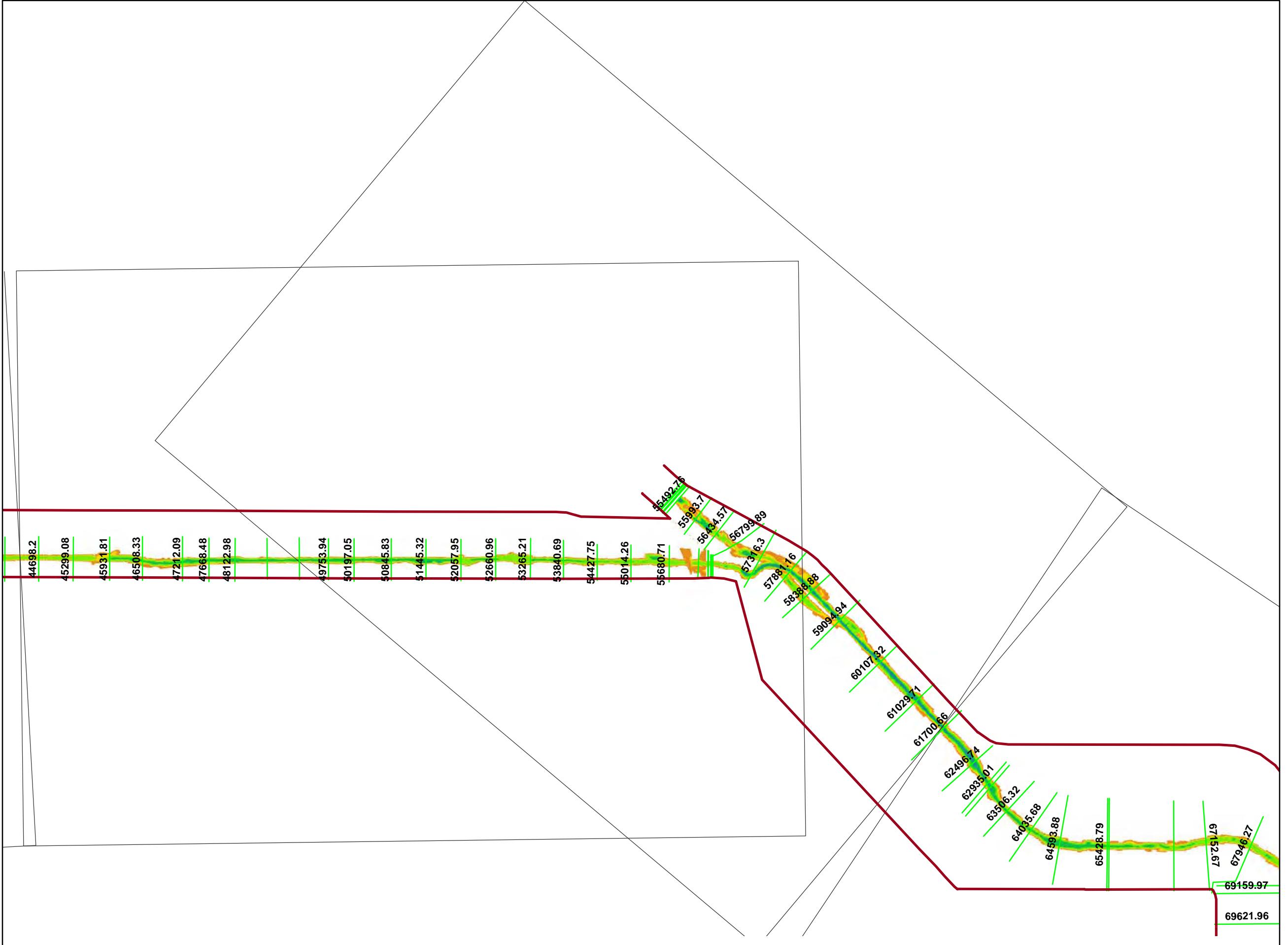


**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

See Page 6



**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

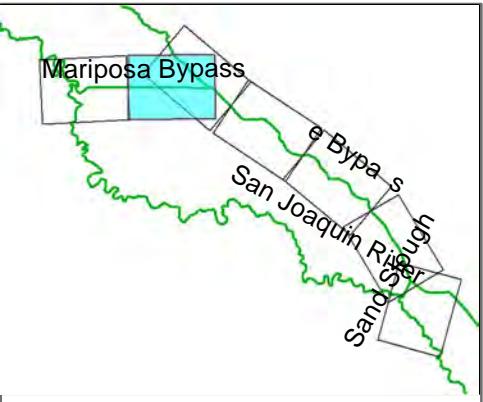
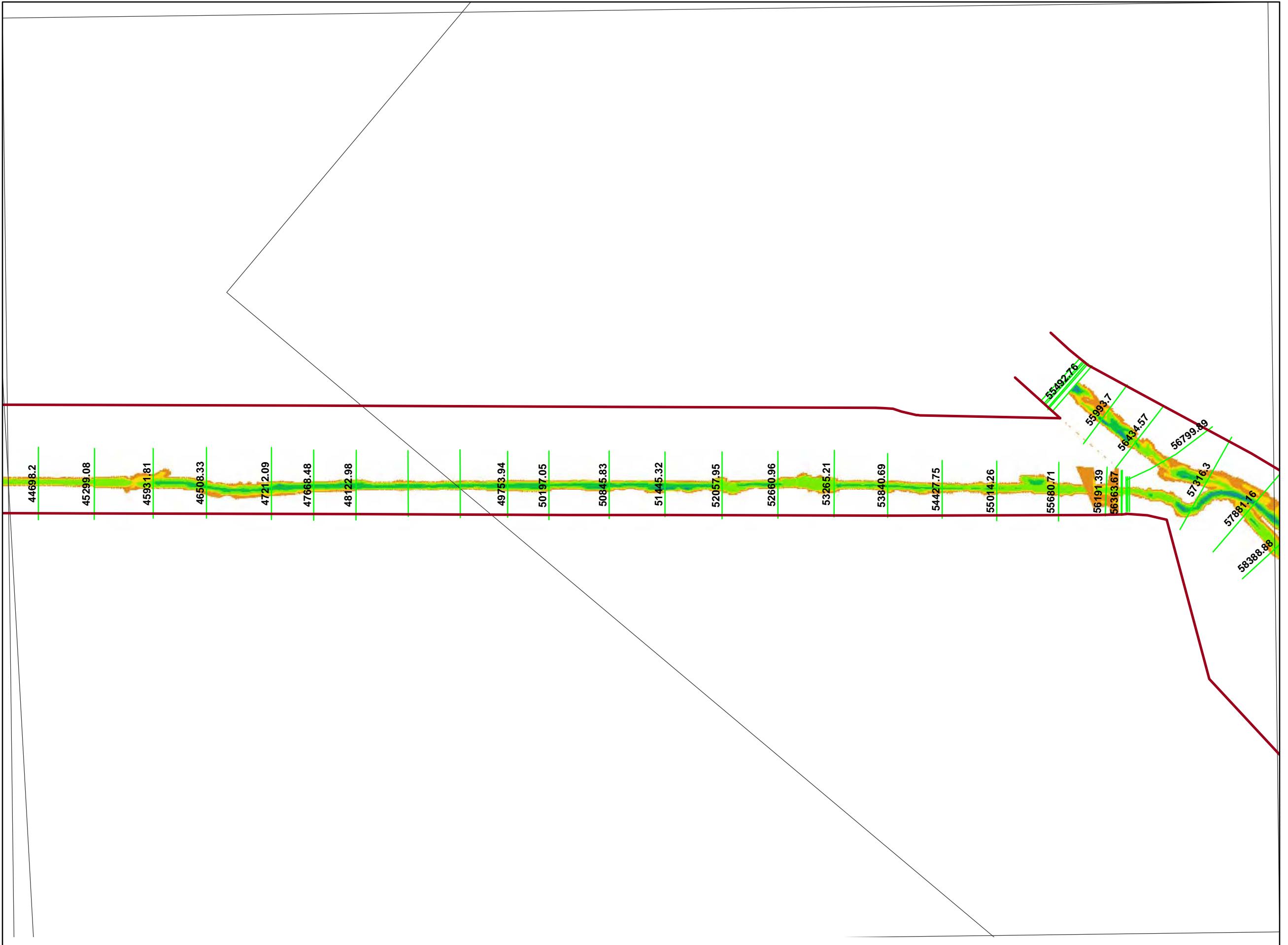
- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

depth (ft)

- dry
- 0 - 0.4
- 0.4 - 1.2
- 1.2 - 3.5
- 3.5 - 5
- 5 - 10
- 10 - 30

See Page 7



Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 150 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

Sedimentation and River
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

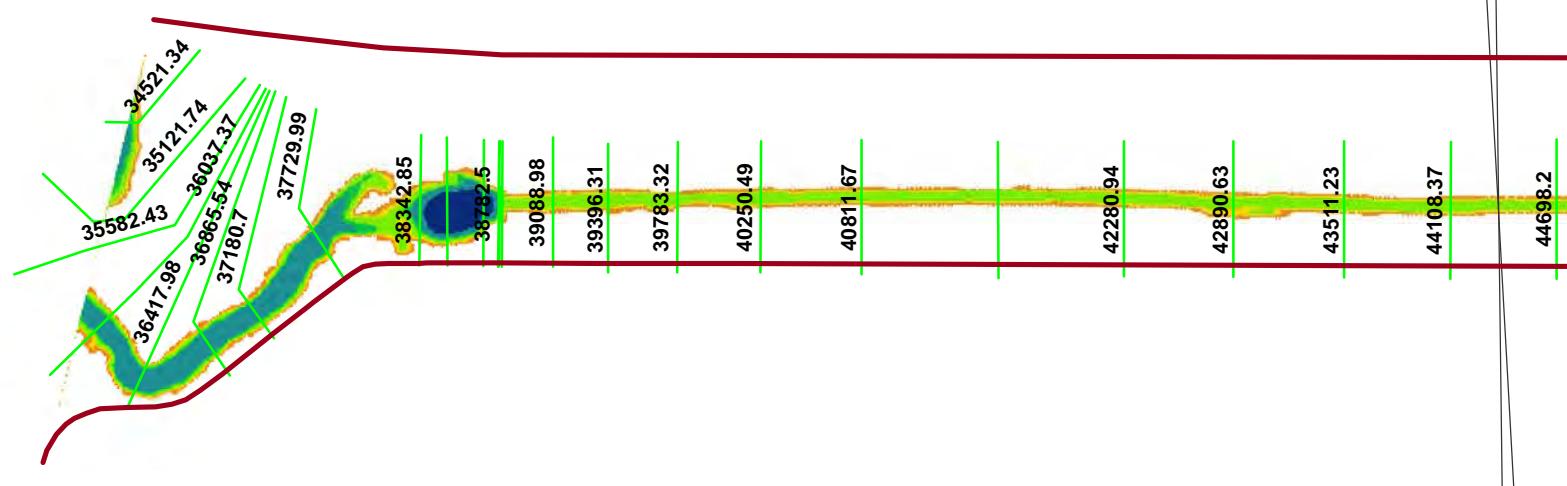
Inundation 150 cfs

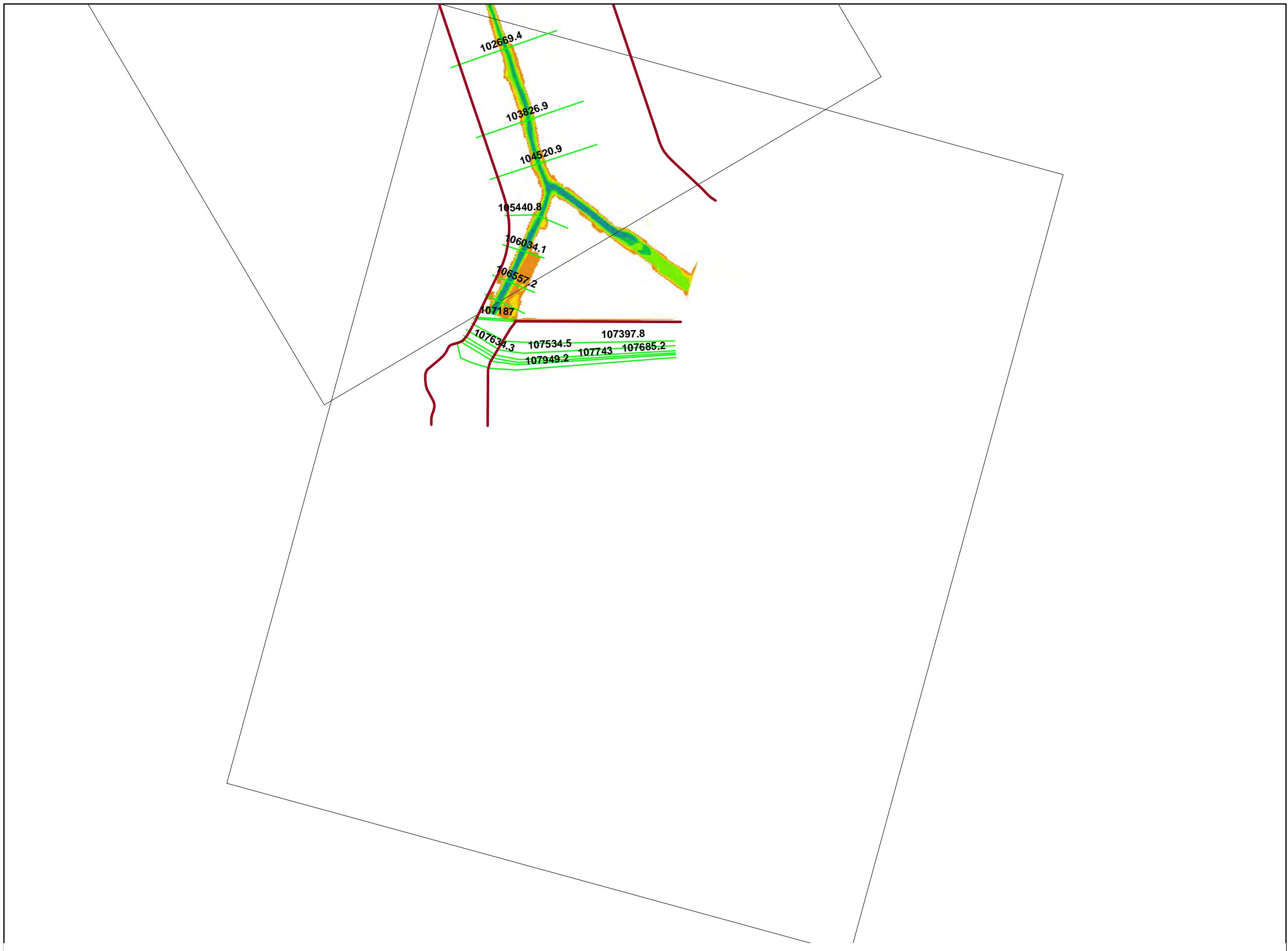
depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





Mariposa Bypass
San Joaquin River
Sand Slough

**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

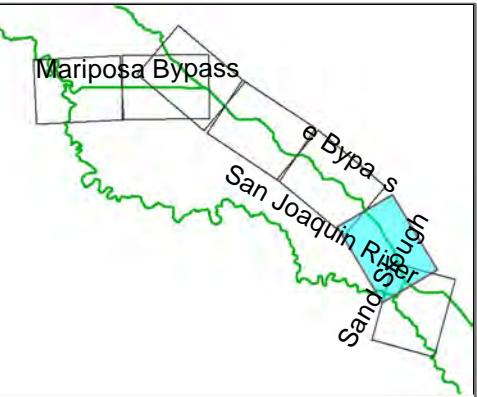
depth (ft)

Depth Range (ft)	Color
dry	White
0 - 0.4	Orange
0.4 - 1.2	Yellow
1.2 - 3.5	Light Green
3.5 - 5	Dark Green
5 - 10	Teal
10 - 30	Dark Blue

0 1,000 2,000 Feet

Sedimentation and River
Hydraulics Group
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Bureau of Reclamation
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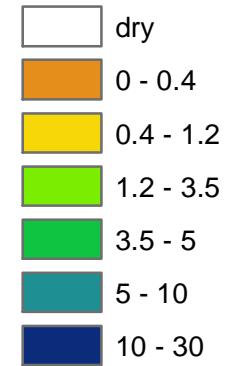
Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

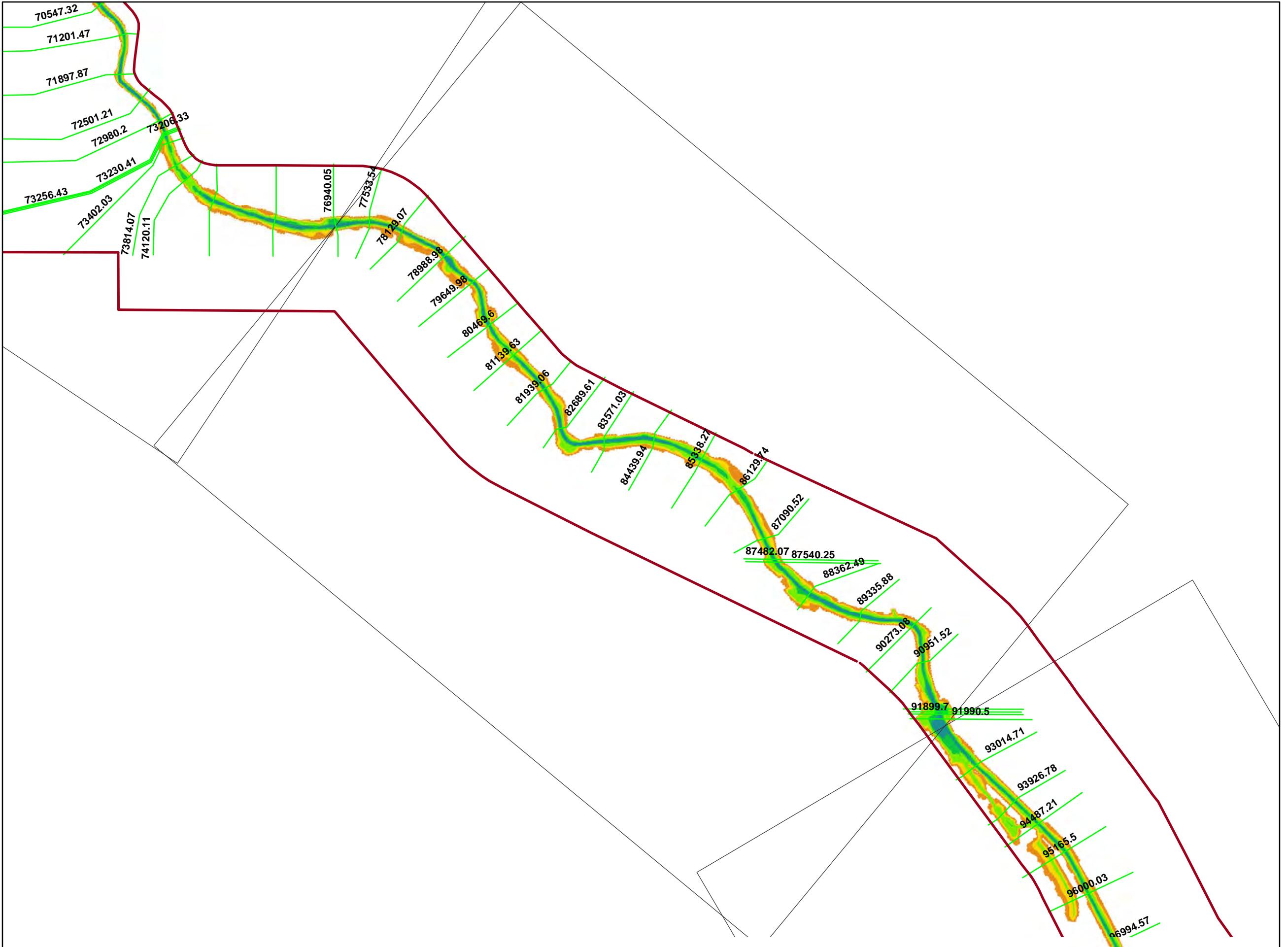
depth (ft)



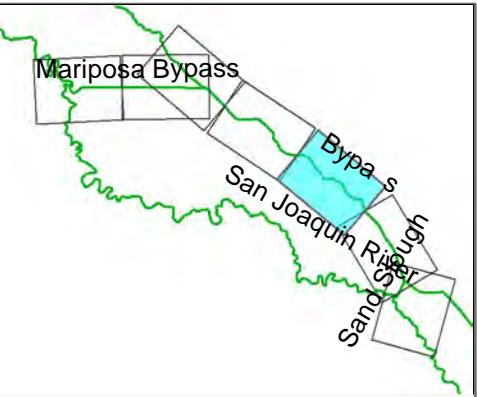
0 1,000 2,000
Feet

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Technical Service Center
Bureau of Reclamation
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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

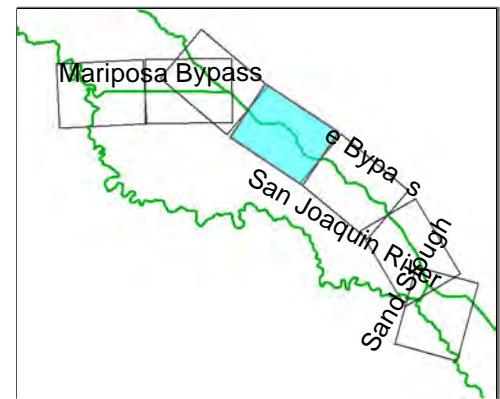
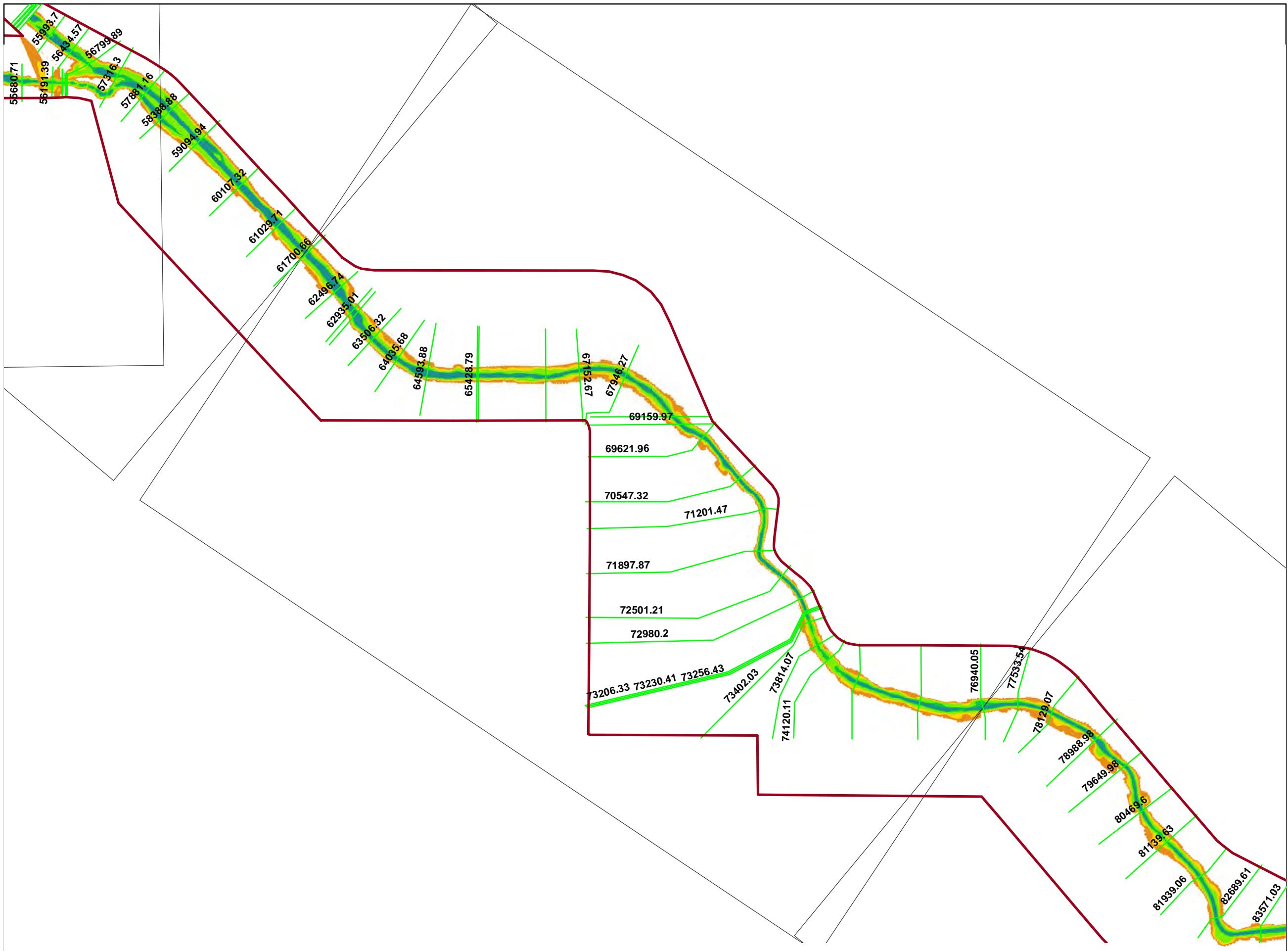
Inundation 475 cfs

depth (ft)



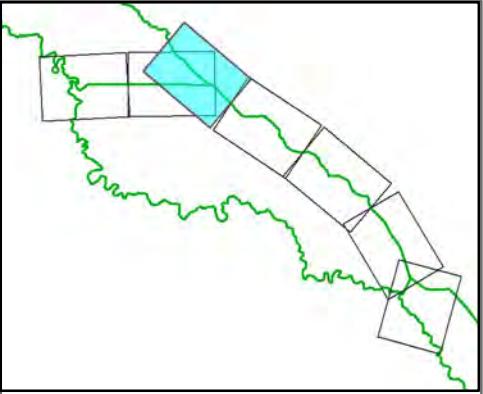
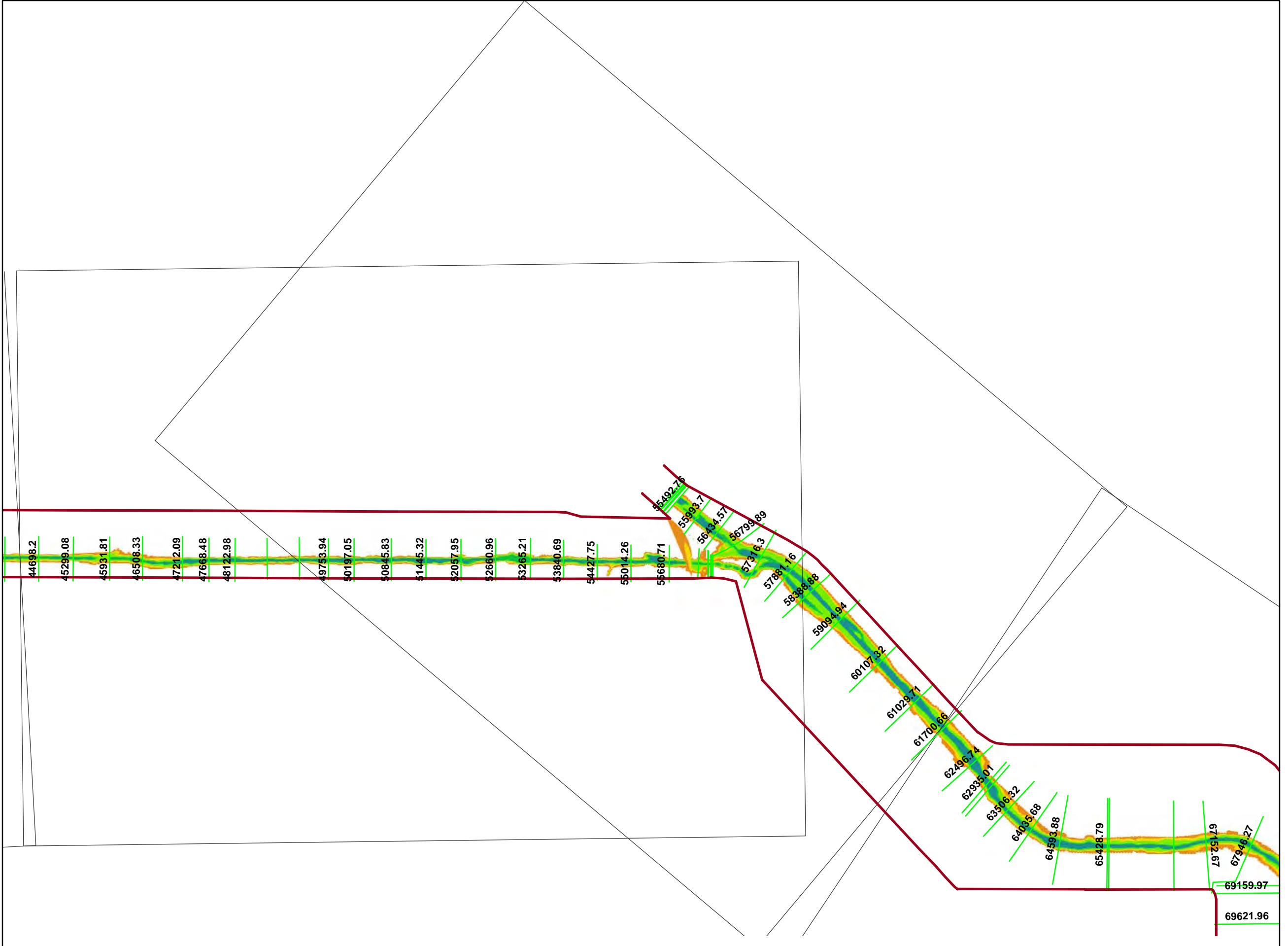
0 1,000 2,000
Feet

Sedimentation and River
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

See Page 6



Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 475 cfs

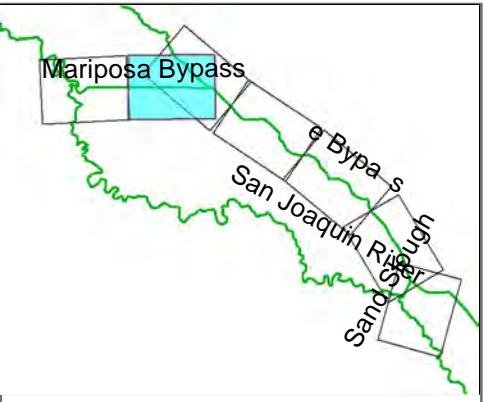
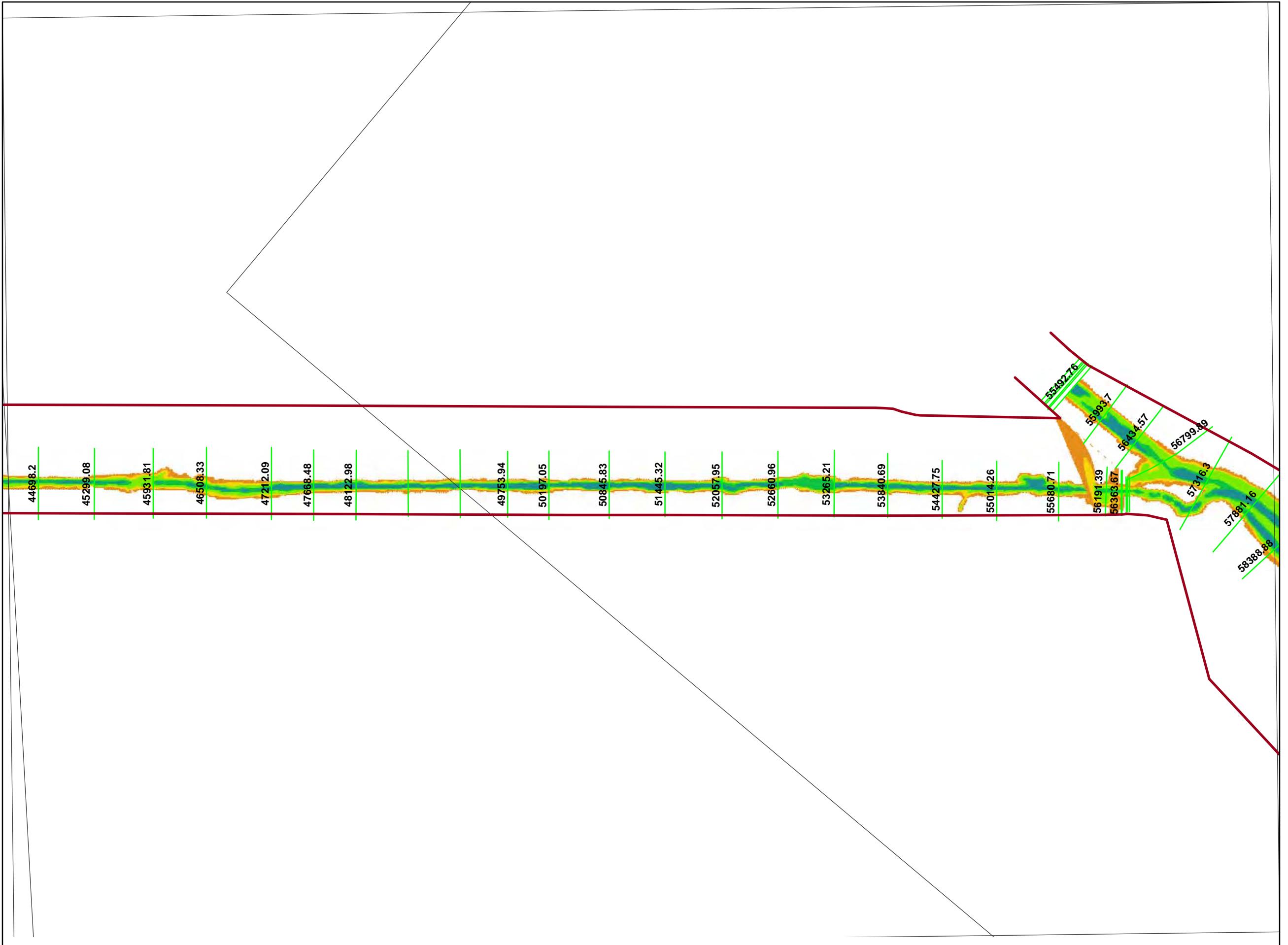
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

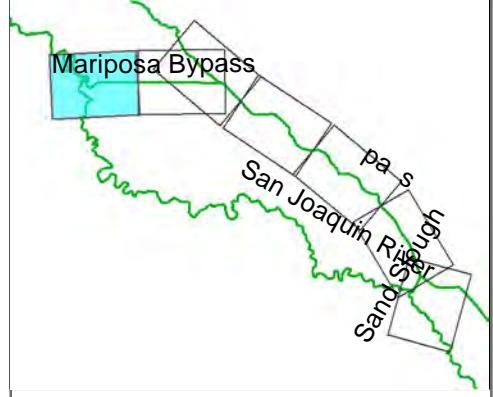
Inundation 475 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



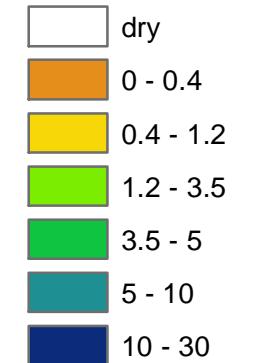
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

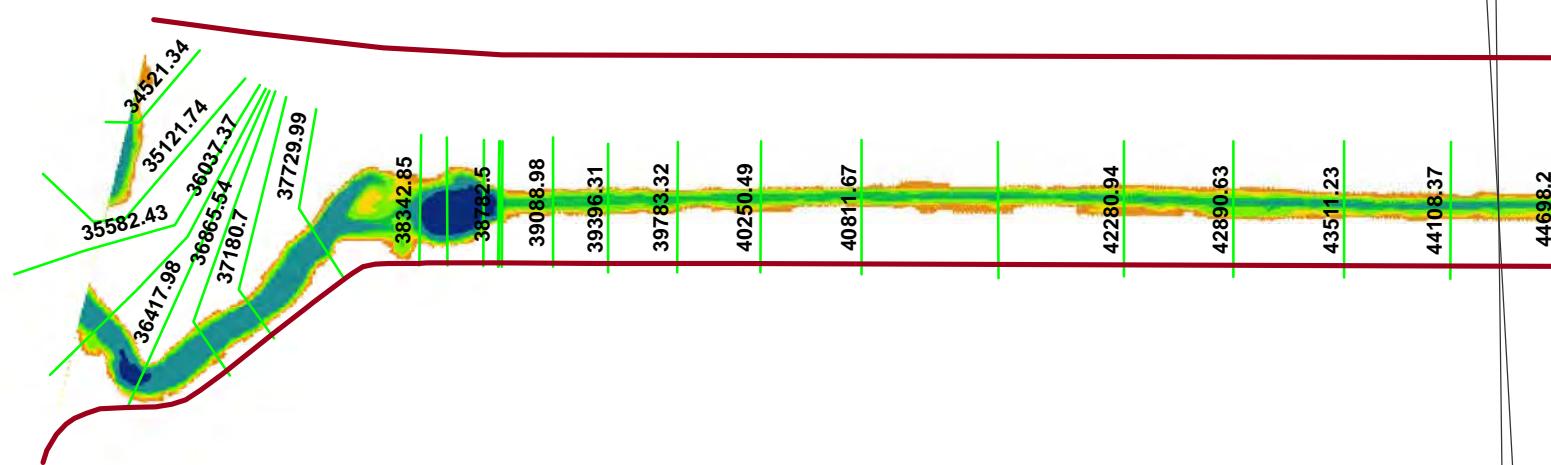
Inundation 475 cfs

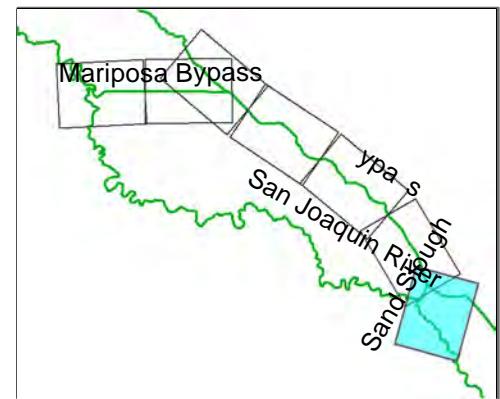
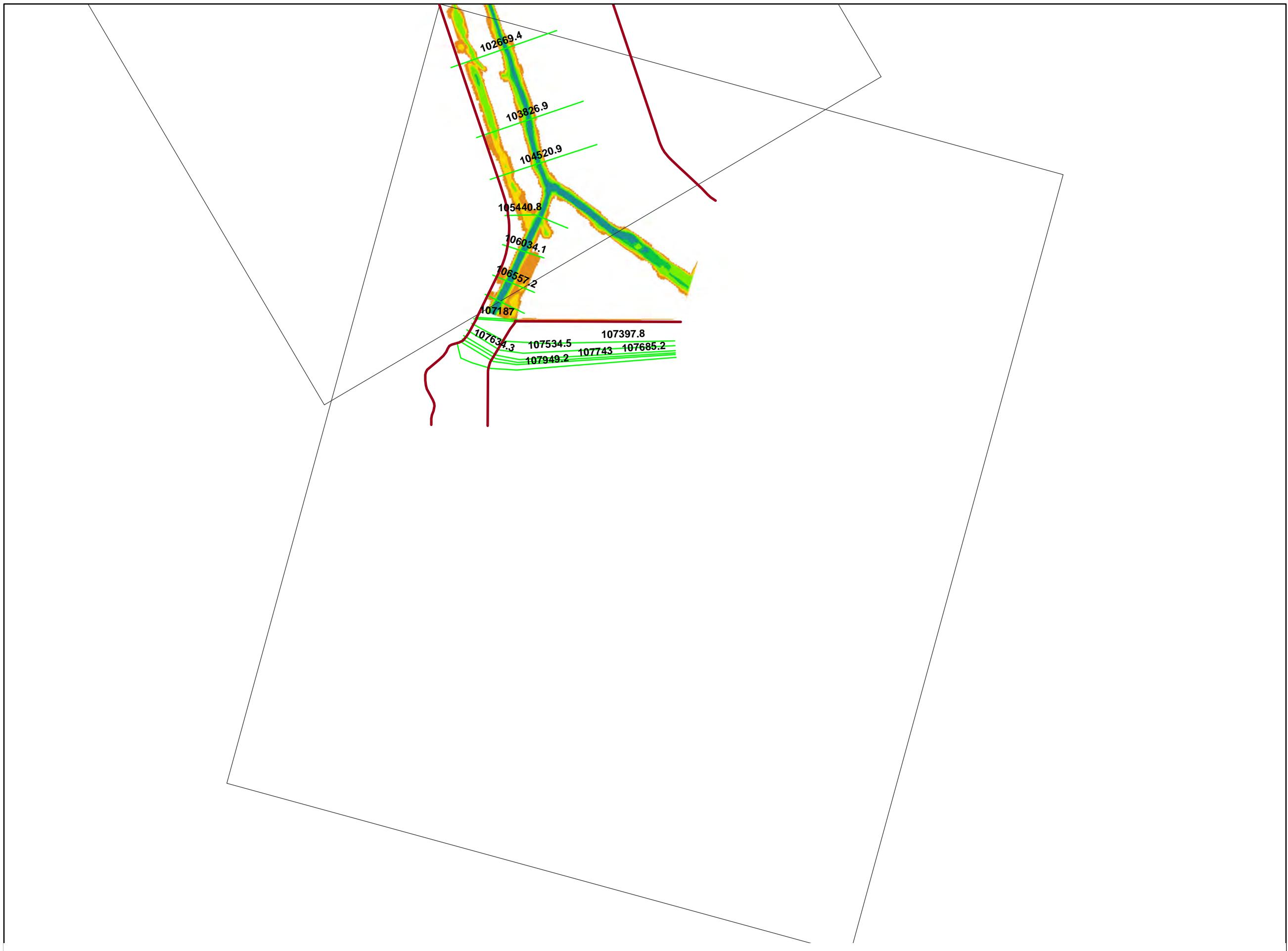
depth (ft)



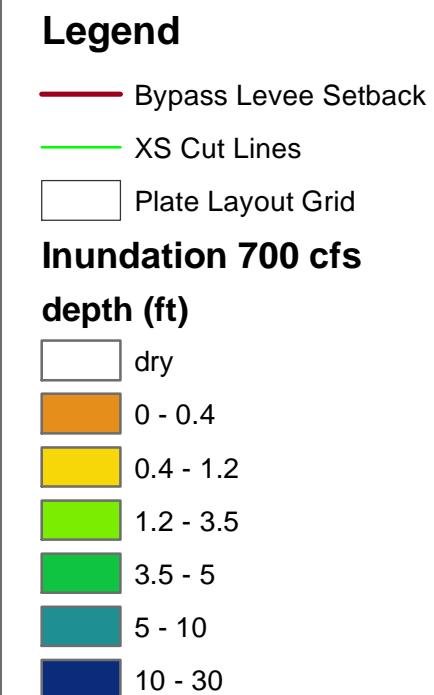
0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO





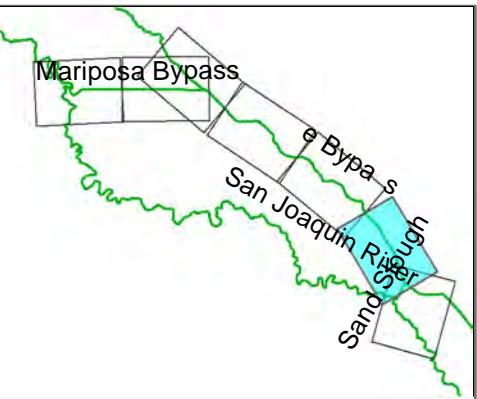
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO

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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

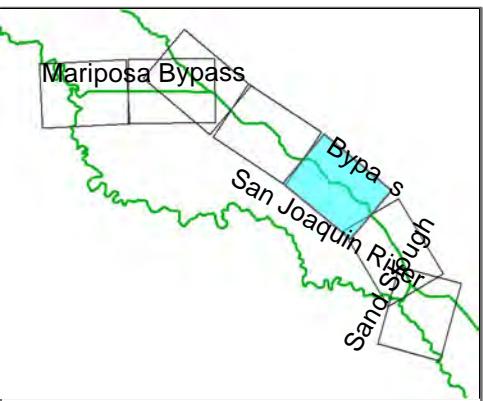
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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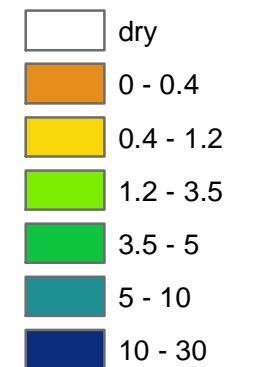
Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

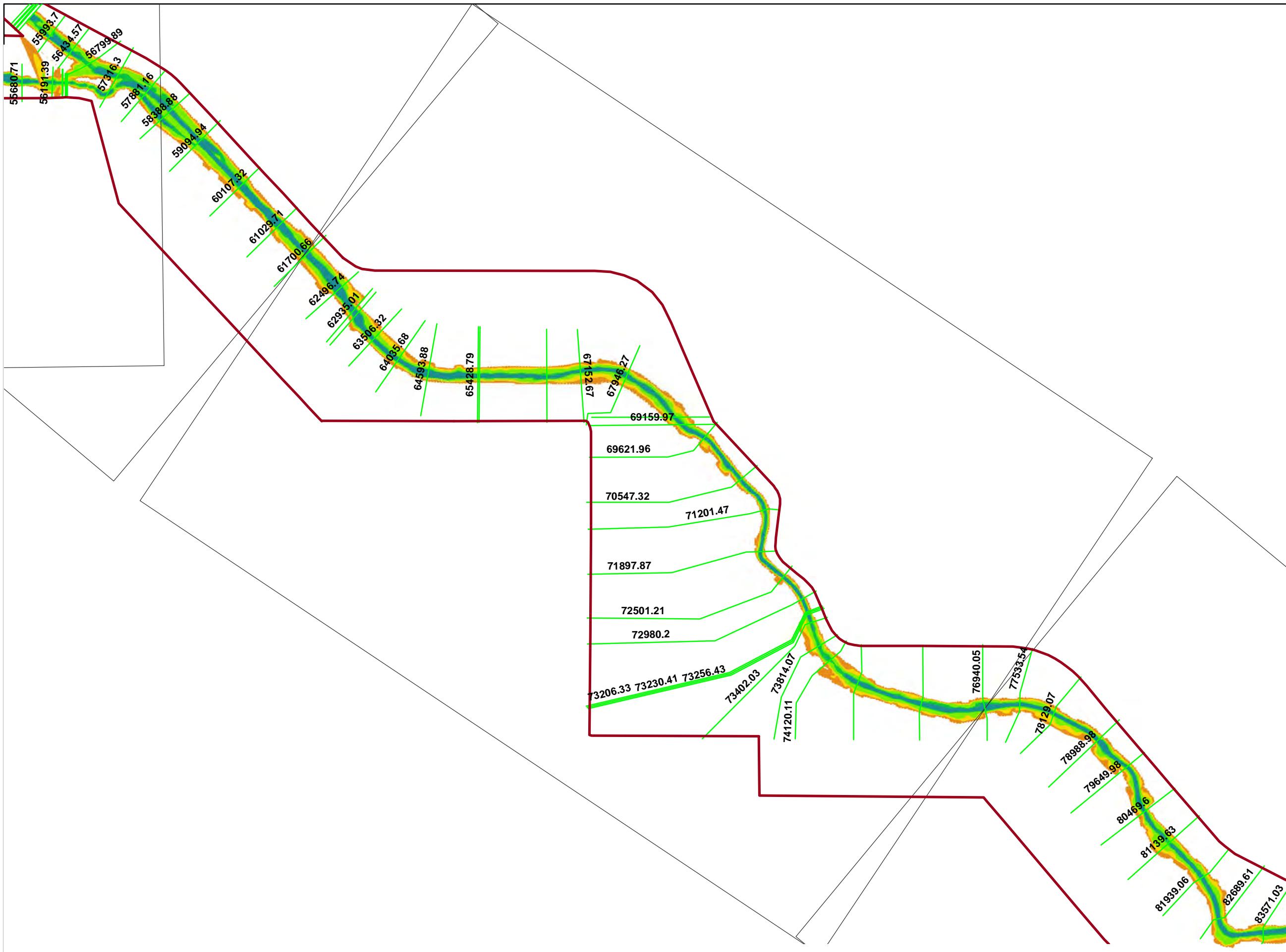
Inundation 700 cfs

depth (ft)



0 1,000 2,000
Feet

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Hydraulics Group
Technical Service Center
Bureau of Reclamation
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

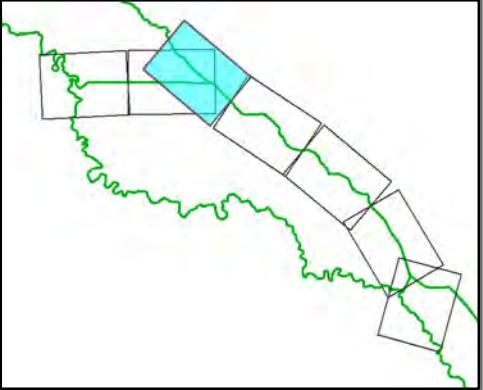
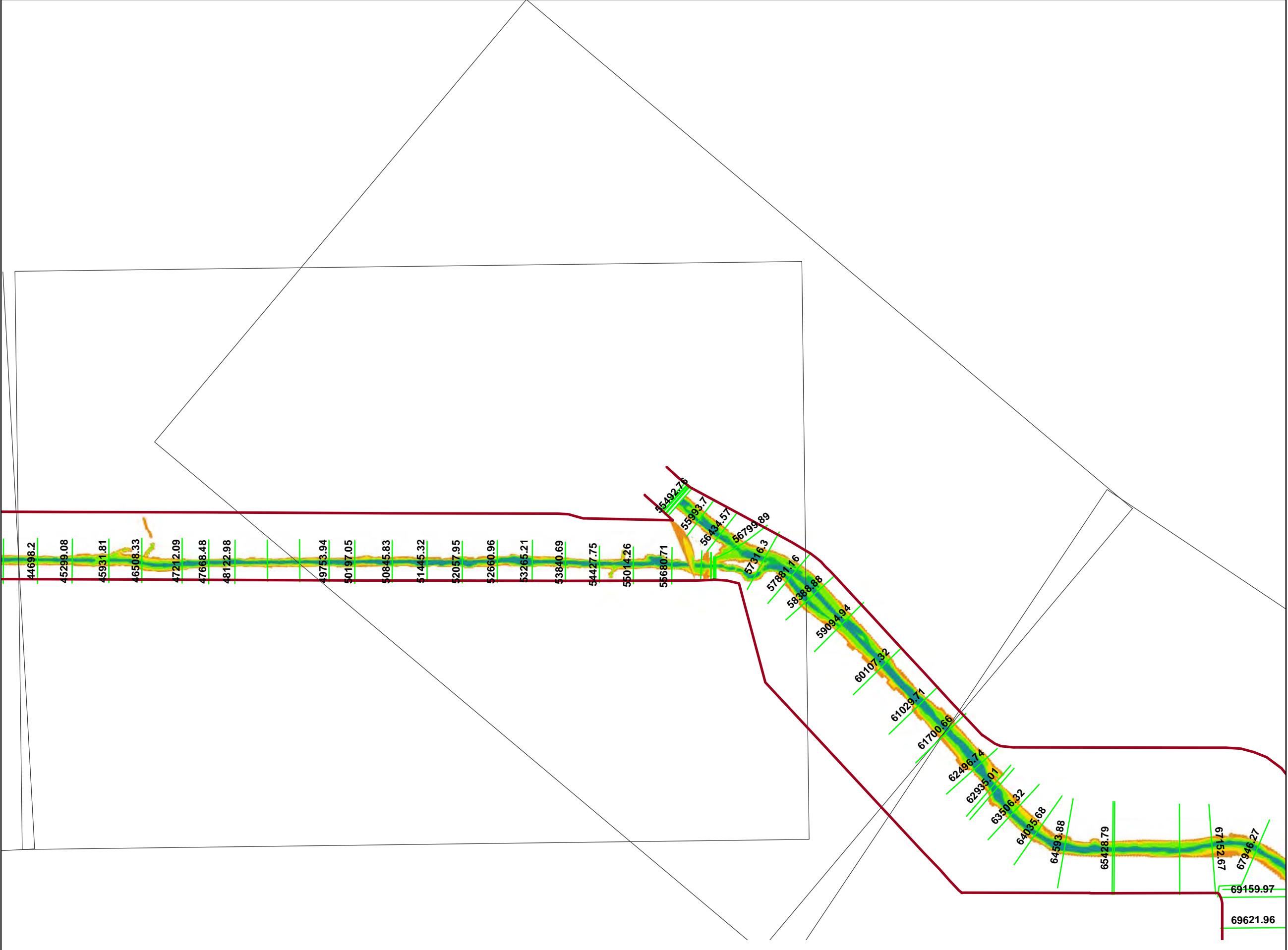
- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

See Page 6



**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

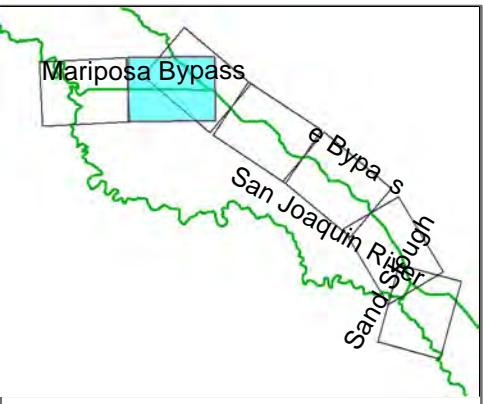
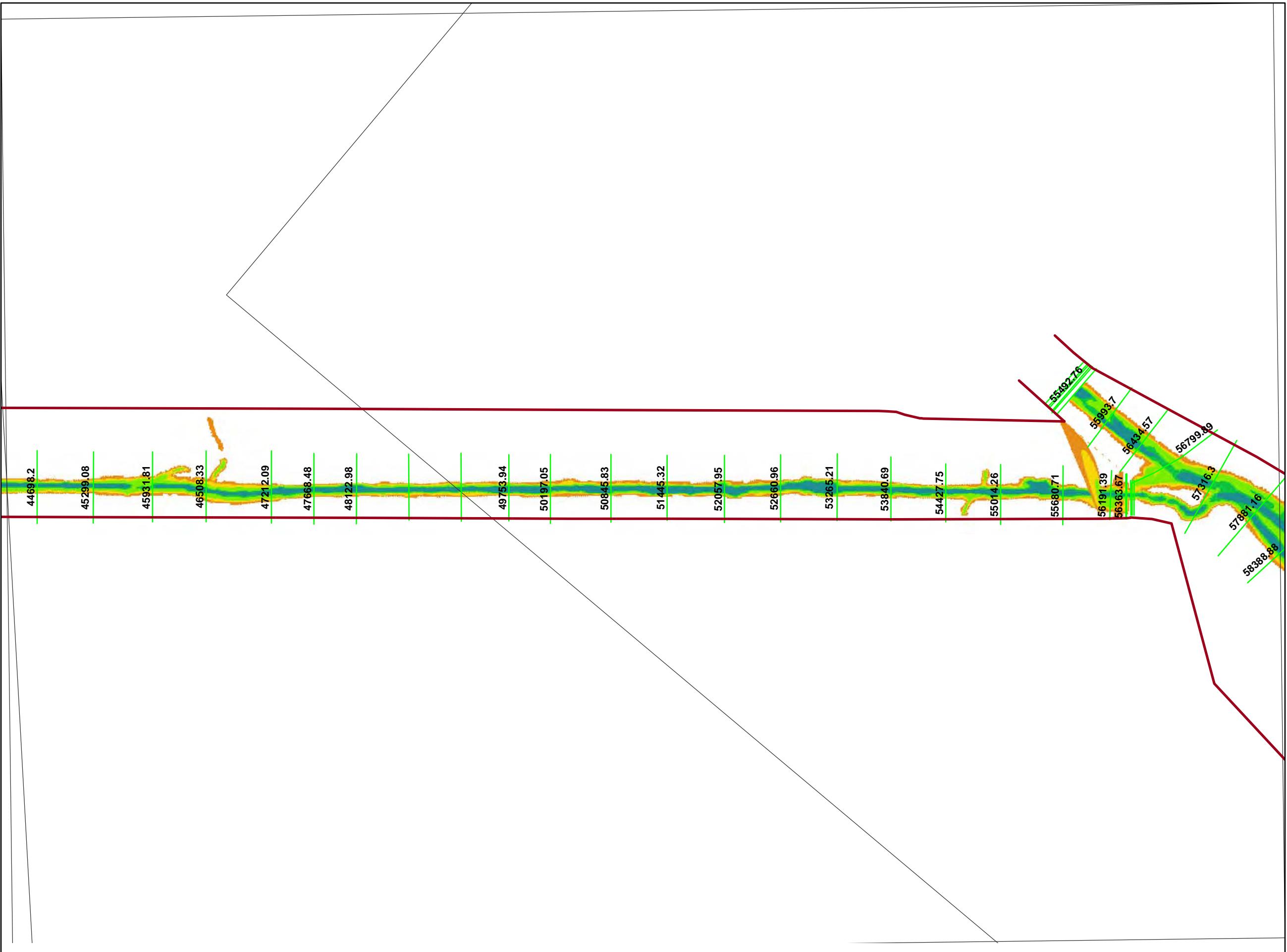
- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

depth (ft)

dry	White
0 - 0.4	Light Orange
0.4 - 1.2	Yellow
1.2 - 3.5	Light Green
3.5 - 5	Medium Green
5 - 10	Dark Teal
10 - 30	Dark Blue

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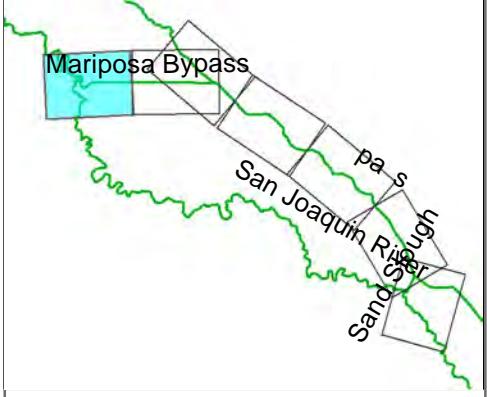


Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
 - XS Cut Lines
 - Plate Layout Grid
- Inundation 700 cfs**
- | depth (ft) | Color |
|------------|--------------|
| dry | white |
| 0 - 0.4 | orange |
| 0.4 - 1.2 | yellow |
| 1.2 - 3.5 | light green |
| 3.5 - 5 | medium green |
| 5 - 10 | teal |
| 10 - 30 | dark blue |

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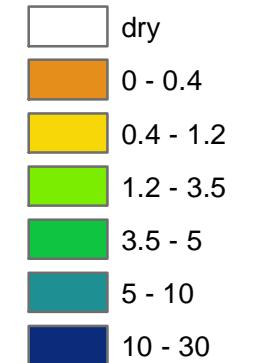
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 700 cfs

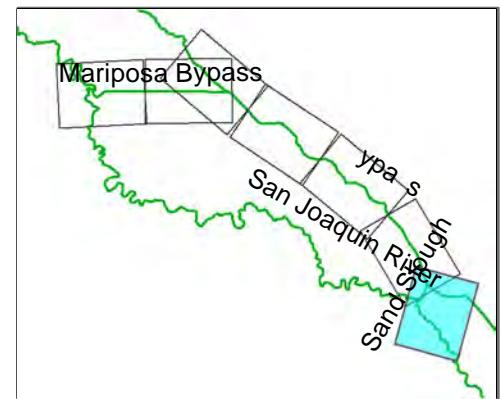
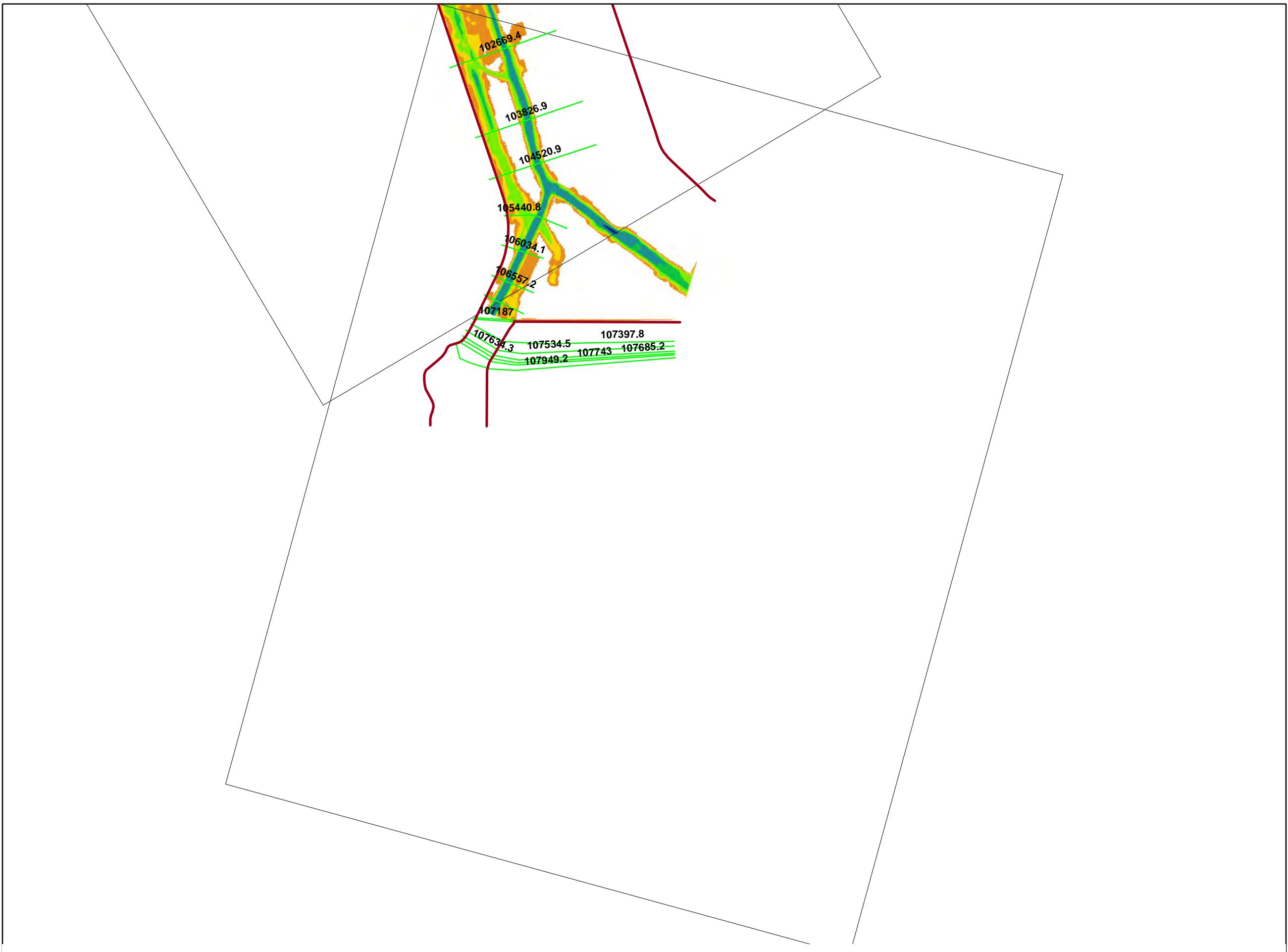
depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 1200 cfs

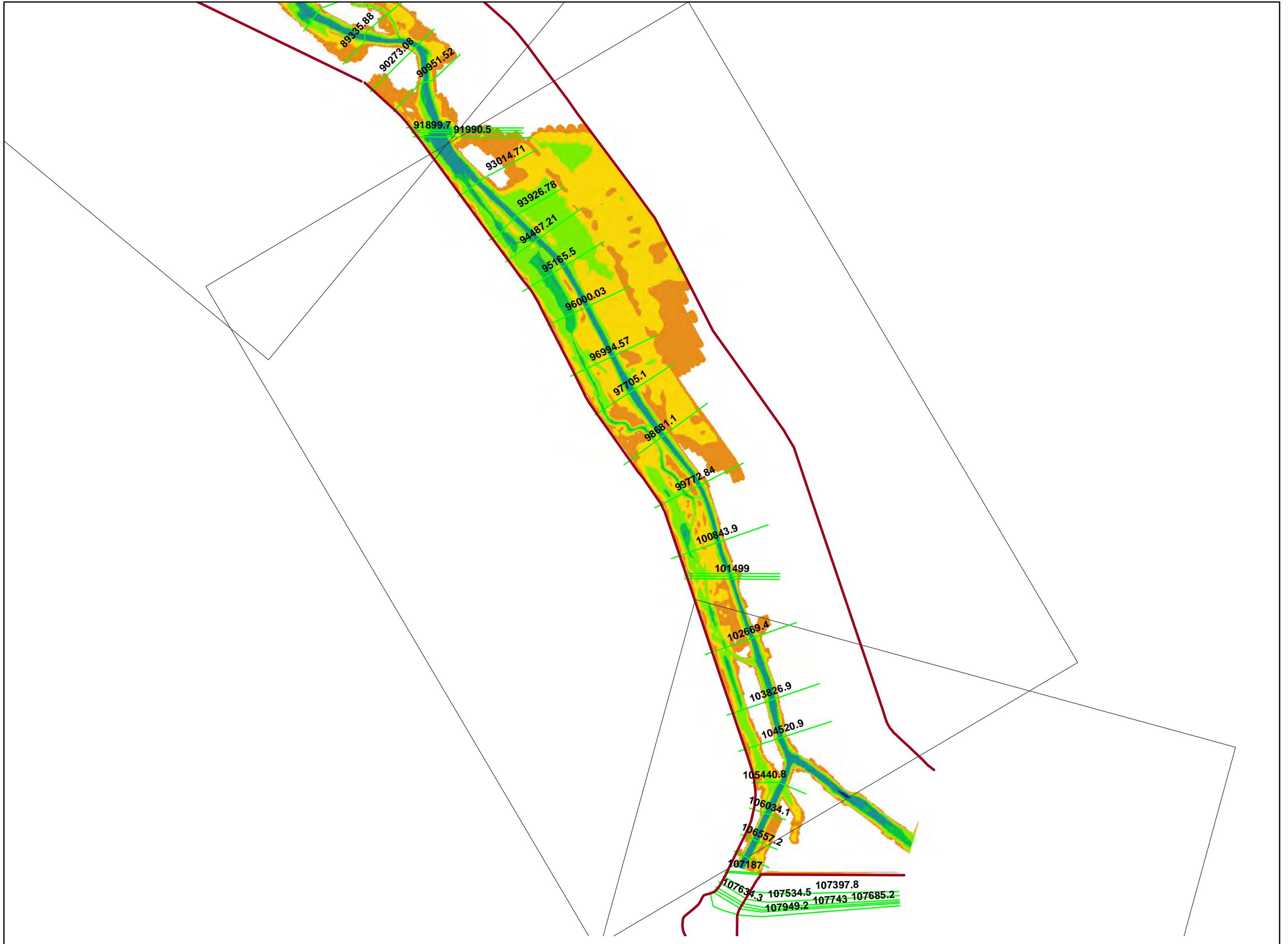
depth (ft)

dry	White
0 - 0.4	Orange
0.4 - 1.2	Yellow
1.2 - 3.5	Light Green
3.5 - 5	Dark Green
5 - 10	Teal
10 - 30	Dark Blue

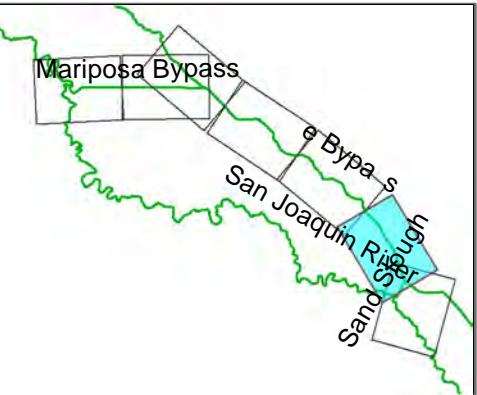
0 1,000 2,000
Feet

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See Page 1



Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

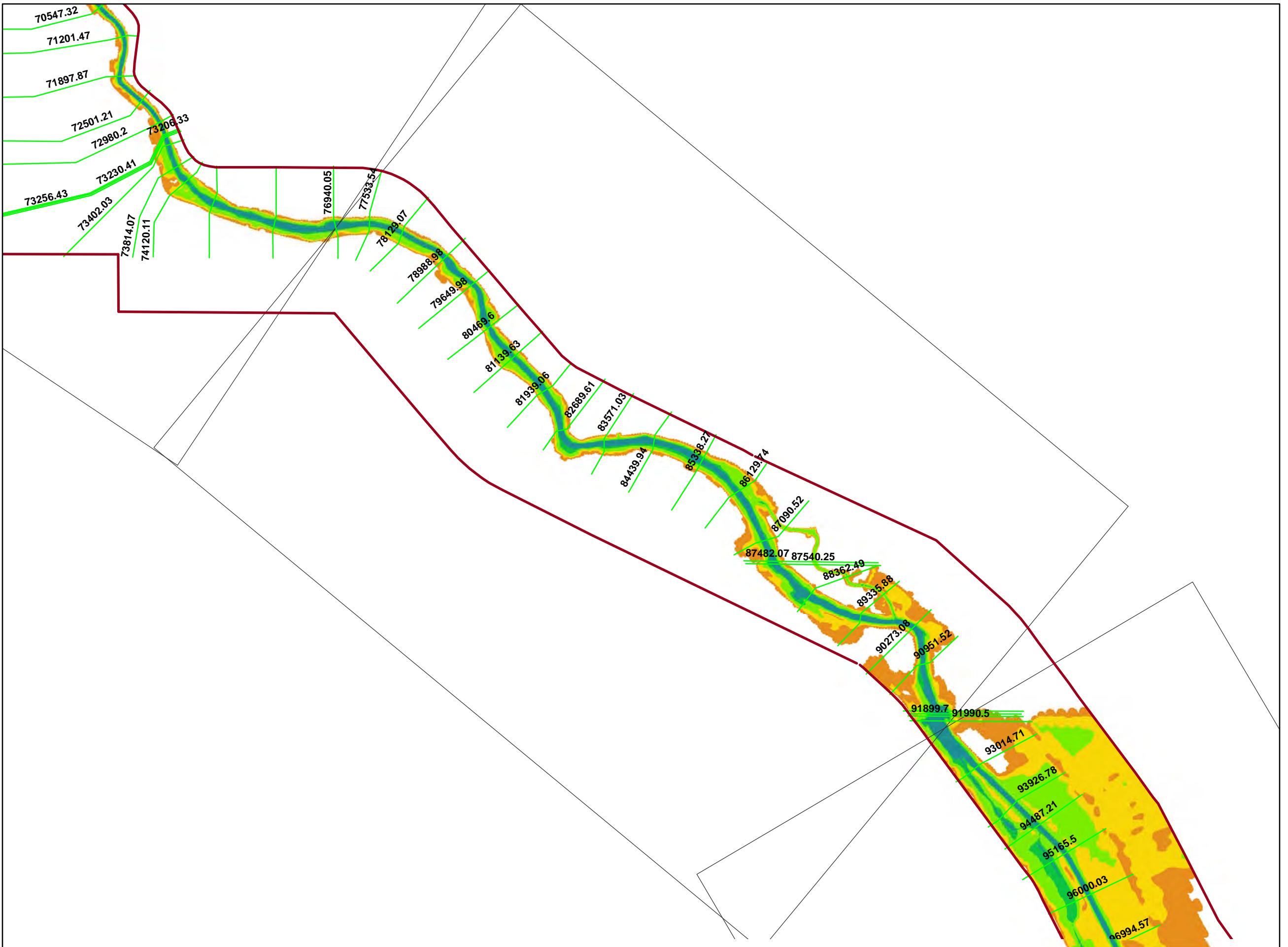
Inundation 1200 cfs

depth (ft)

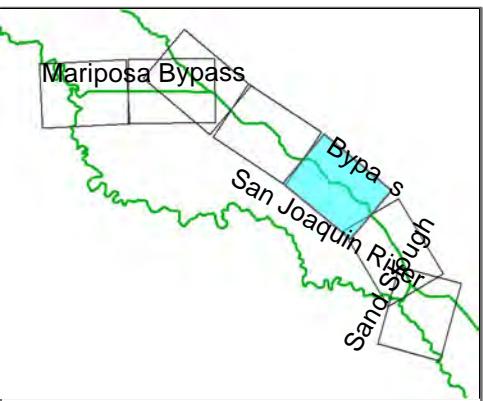


0 1,000 2,000
Feet
Sedimentation and River
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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

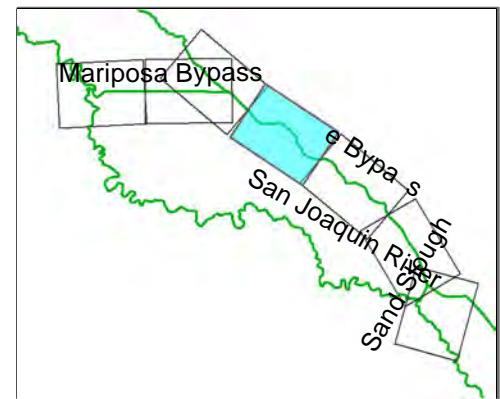
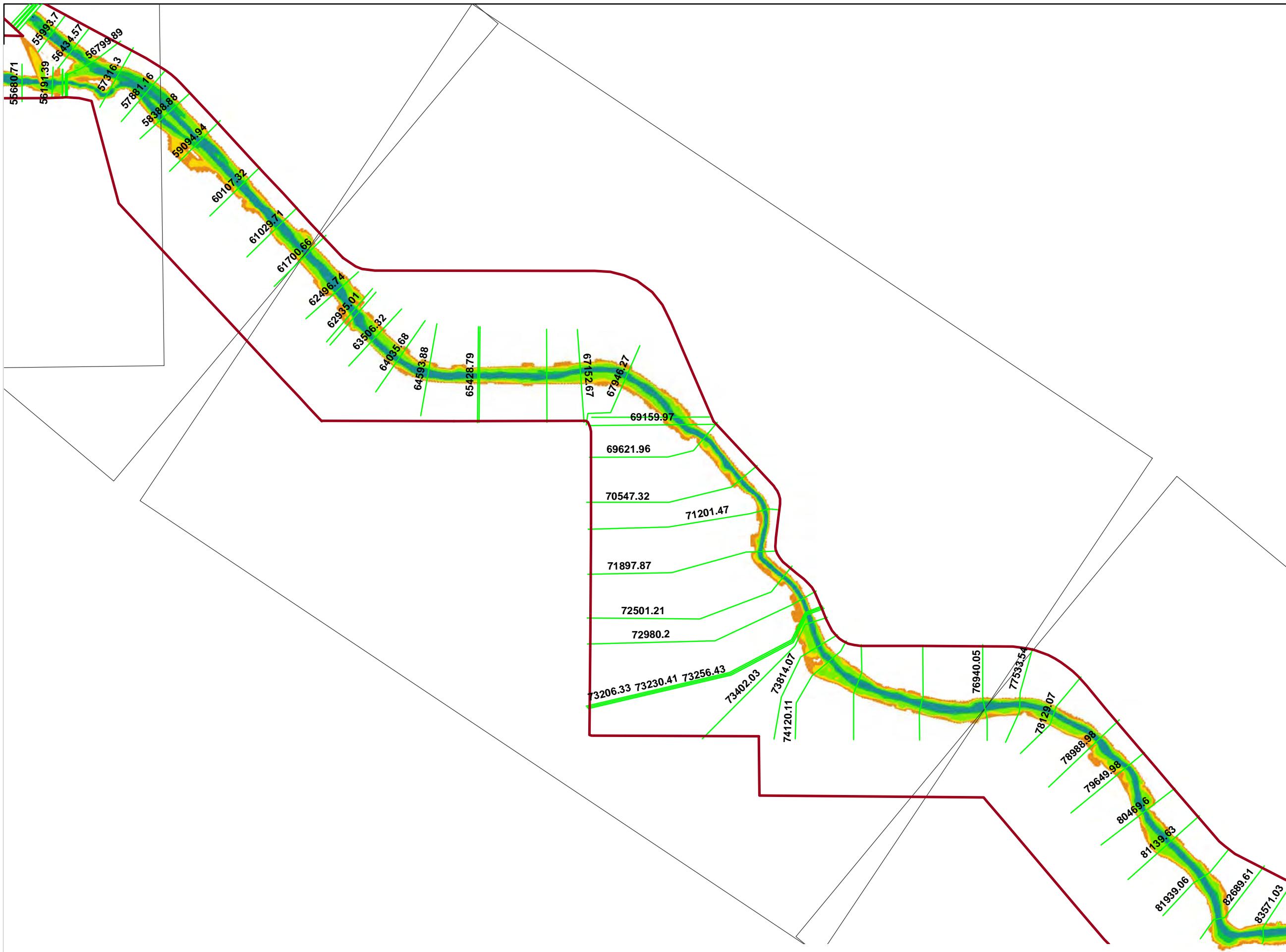
Inundation 1200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

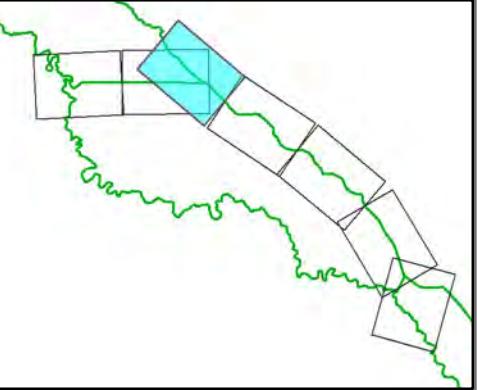
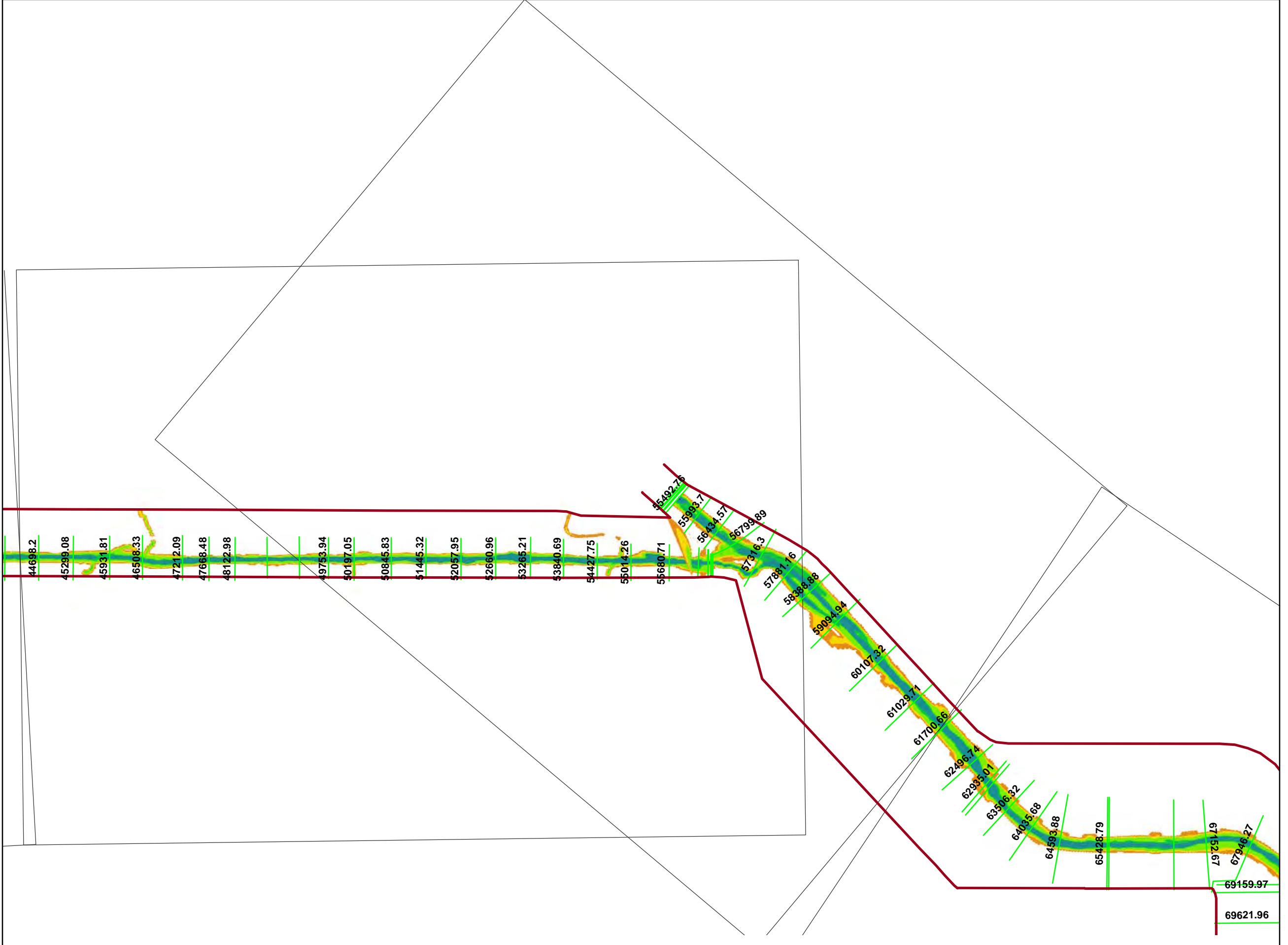
0 1,000 2,000
Feet

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**Alternative 2
with Levee Setback
Bypass Innundation
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 1200 cfs

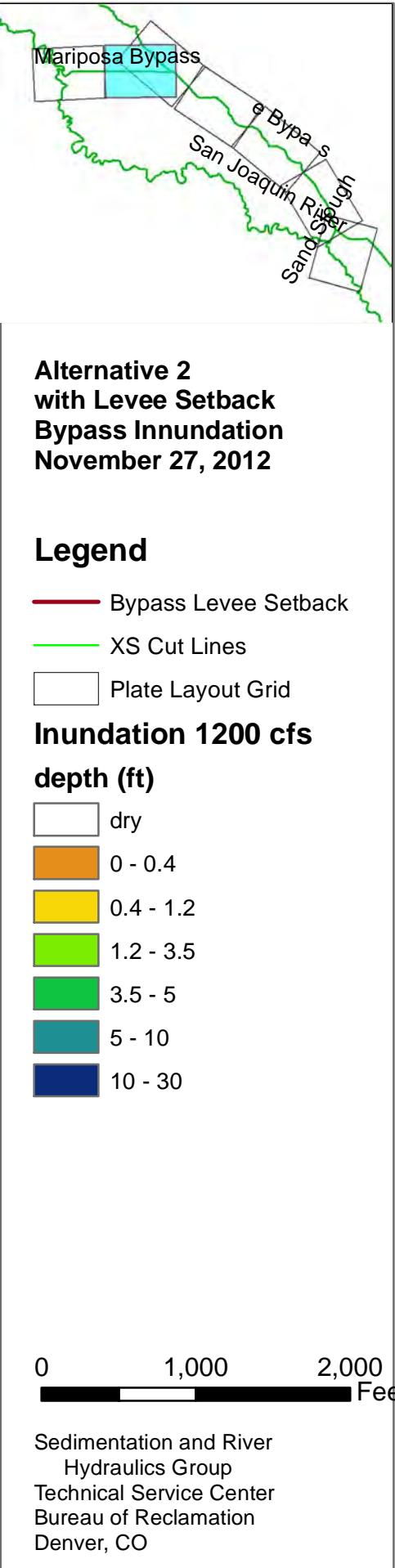
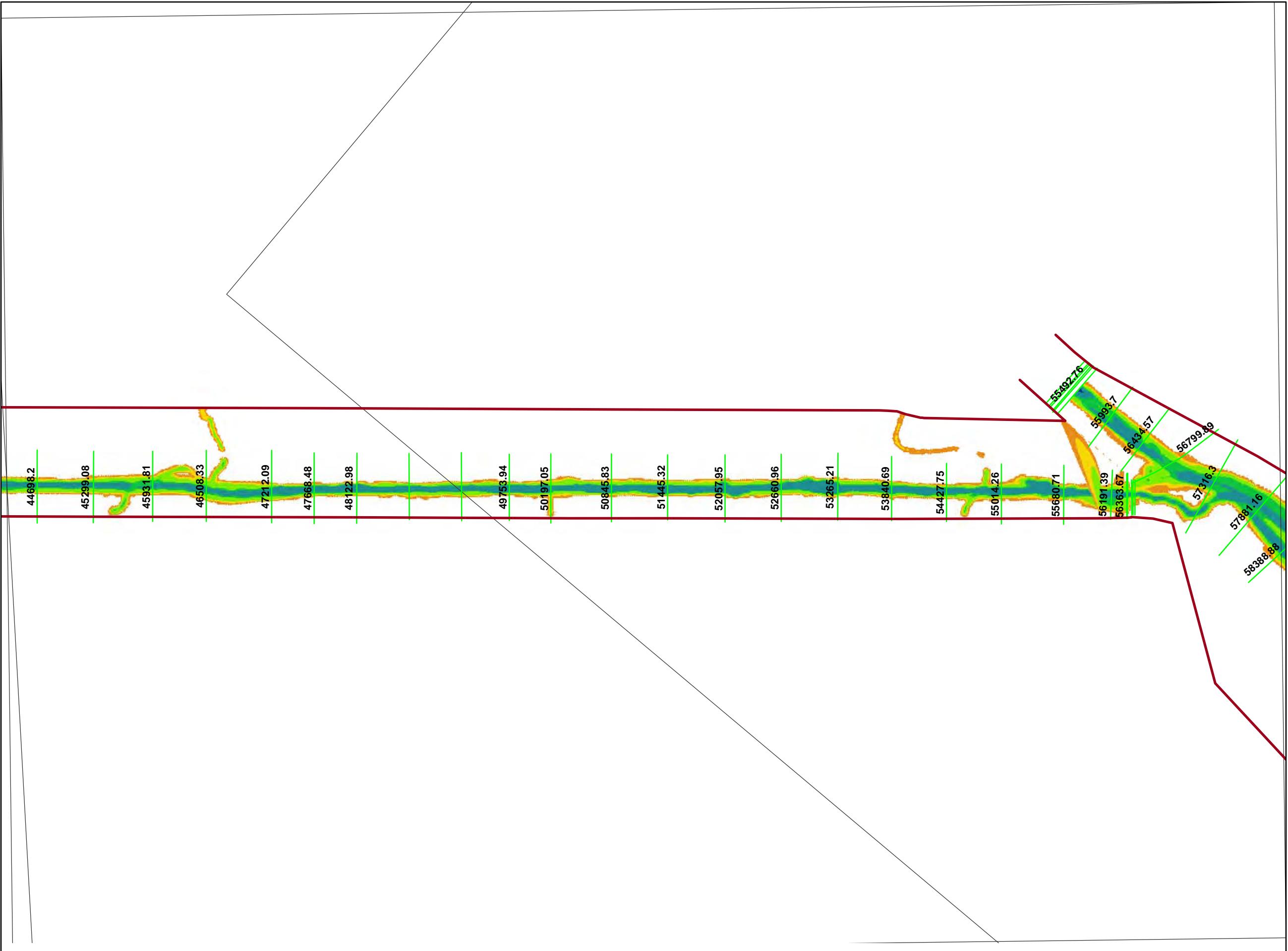
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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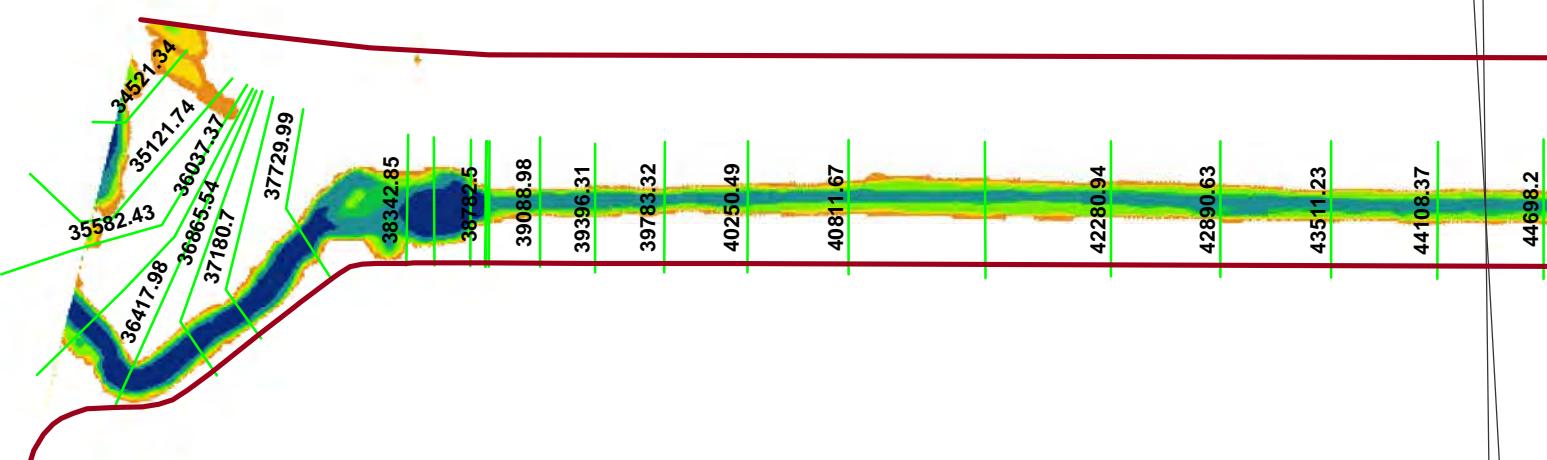
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

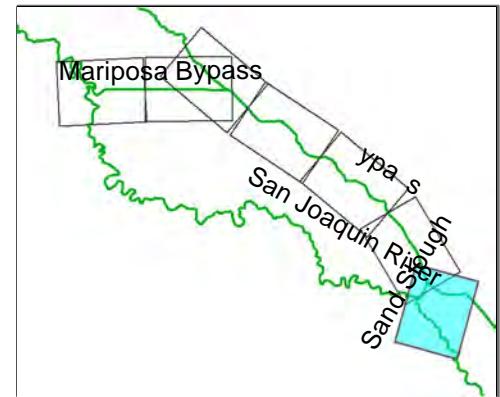
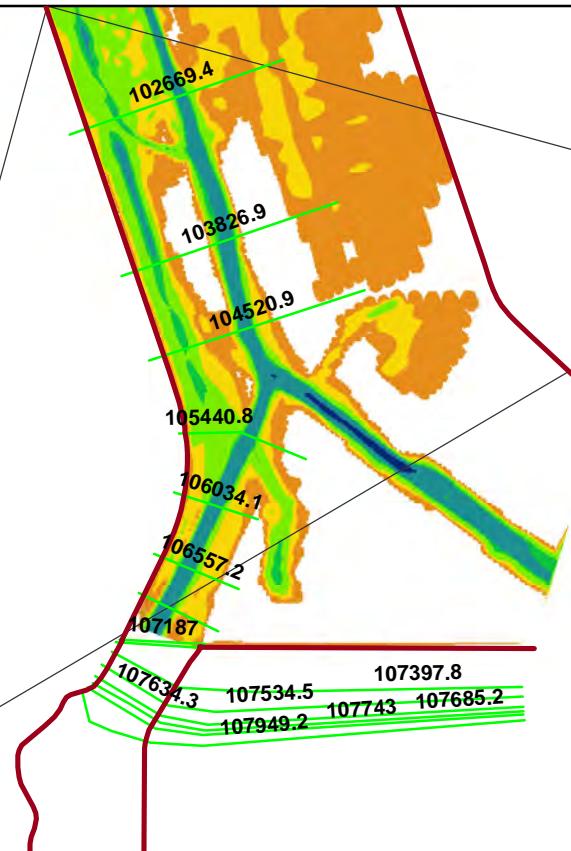
Inundation 1200 cfs

depth (ft)



0 1,000 2,000
Feet

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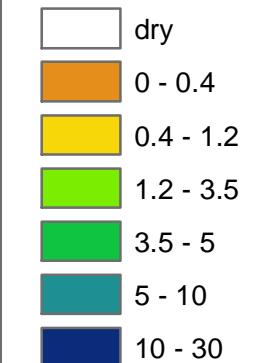
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

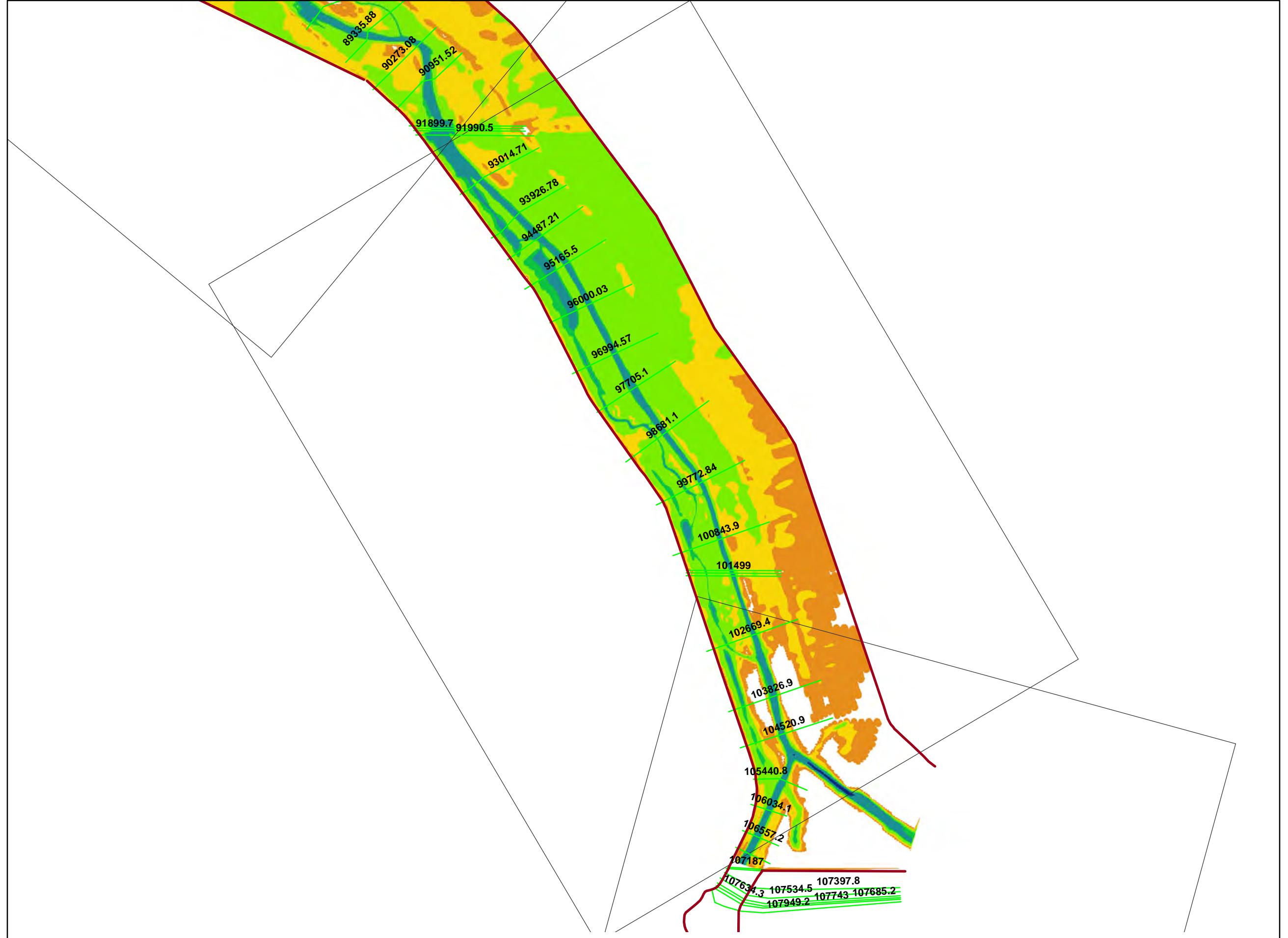
depth (ft)



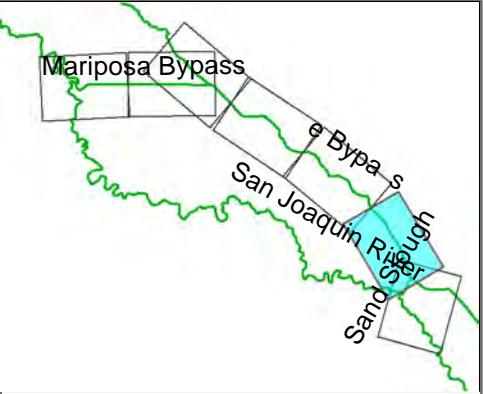
0 1,000 2,000
Feet

Sedimentation and River
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

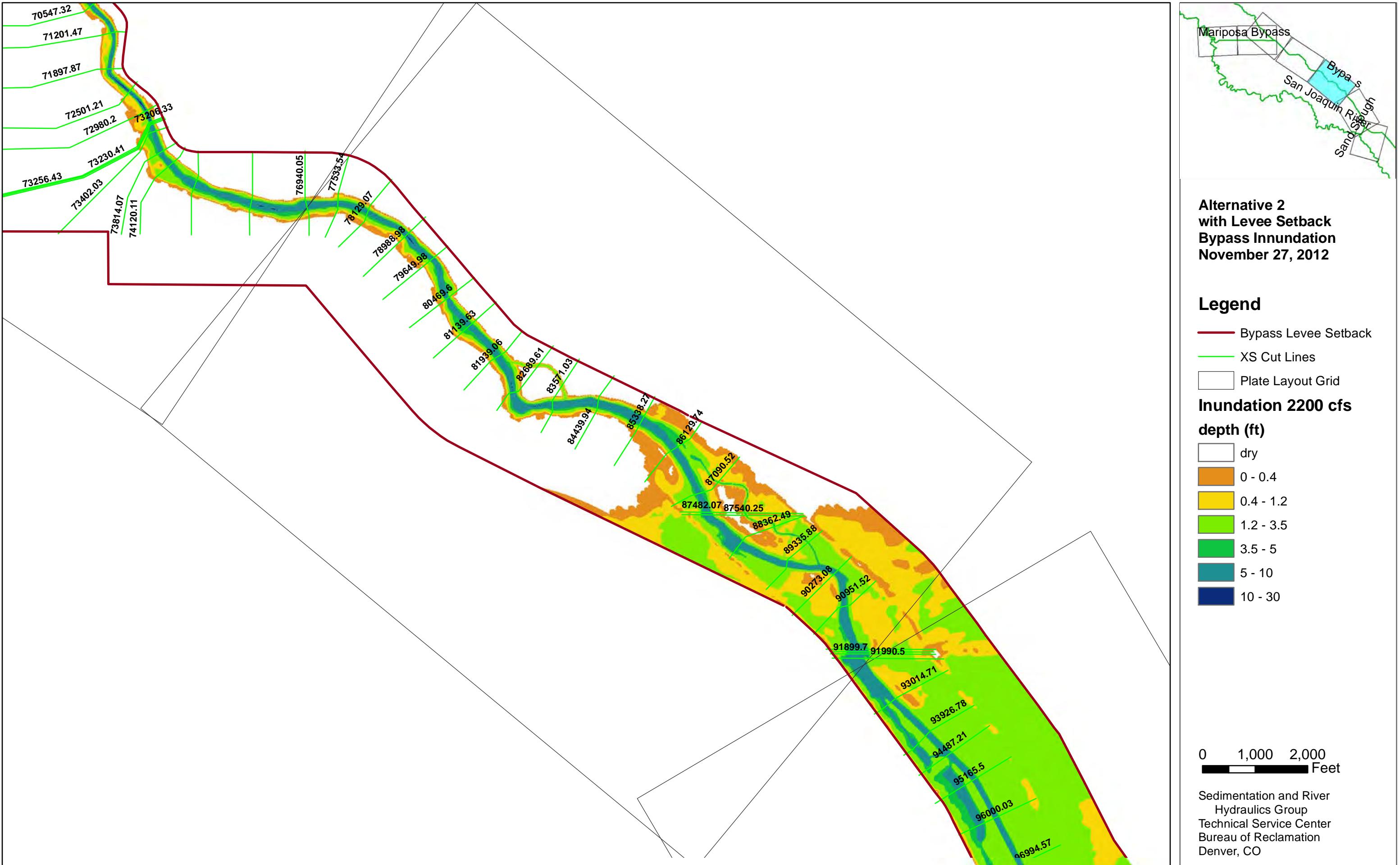
depth (ft)

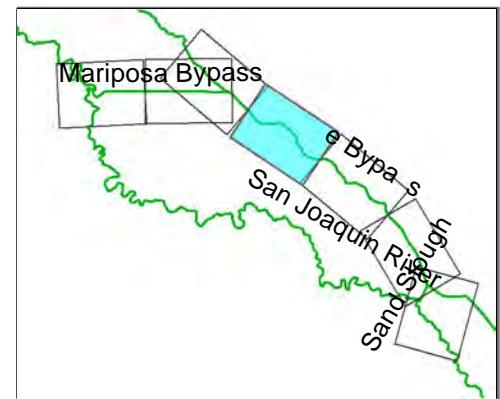
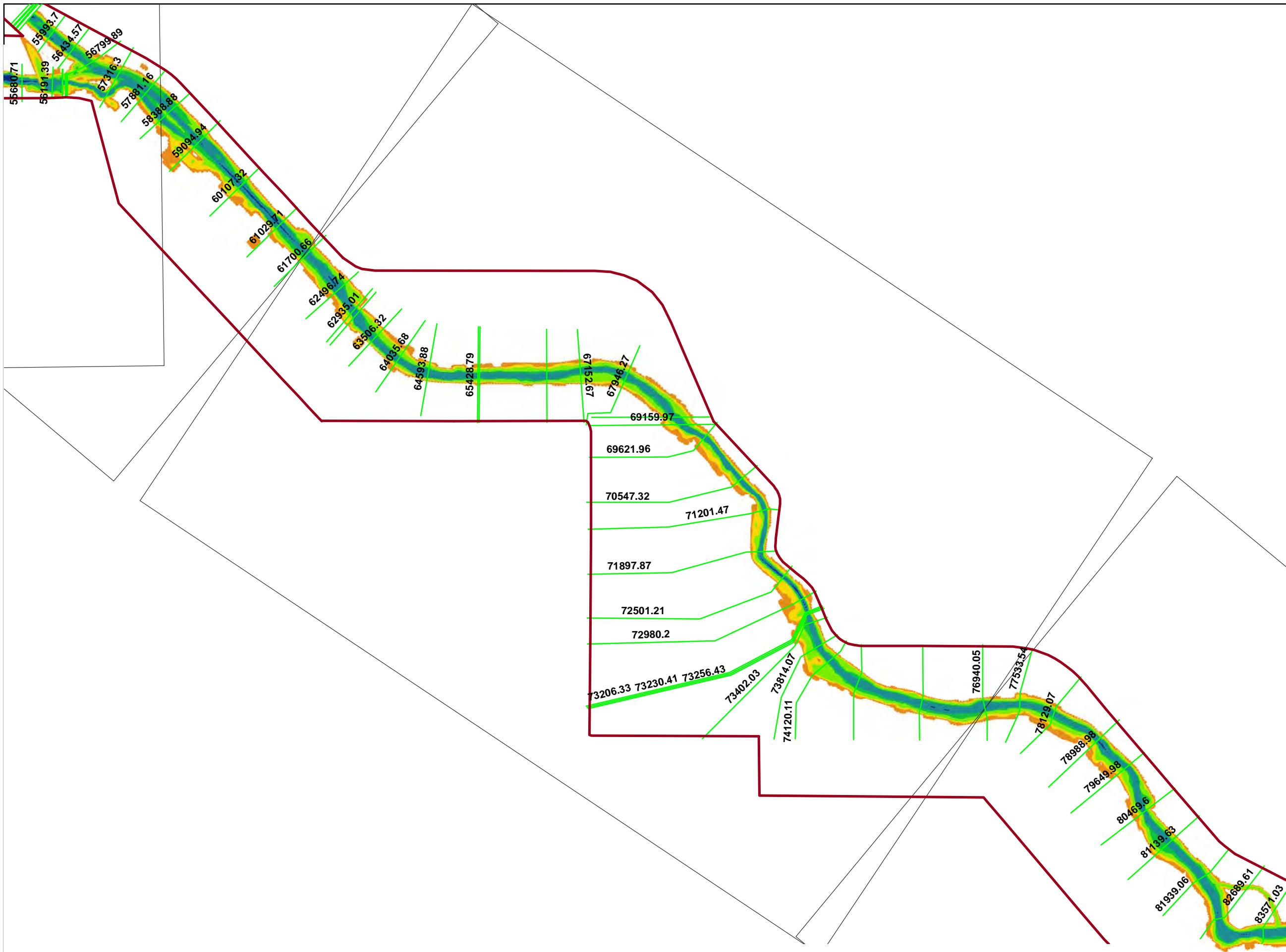
dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
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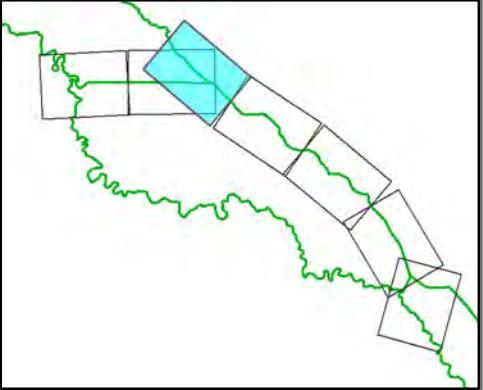
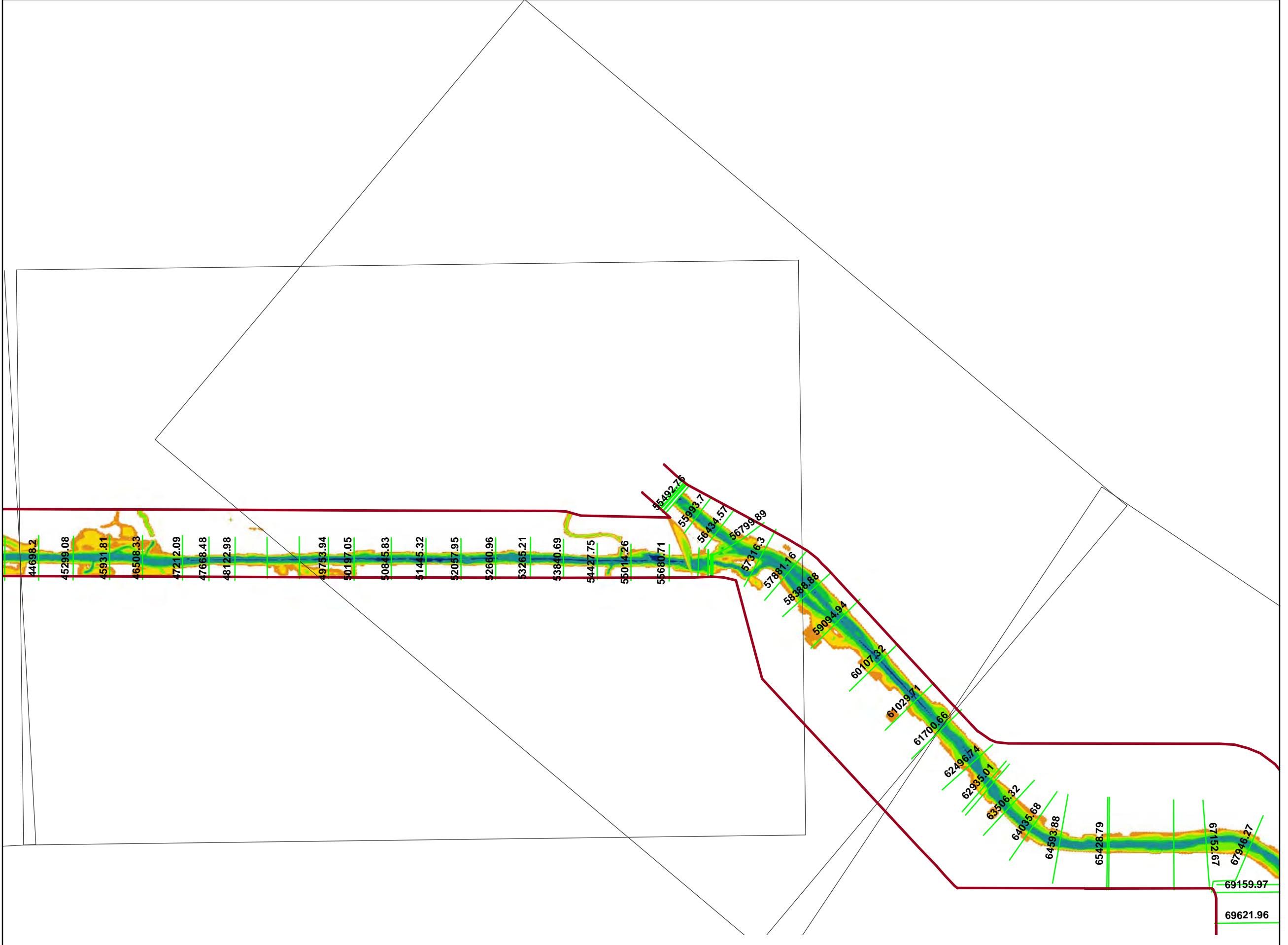
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

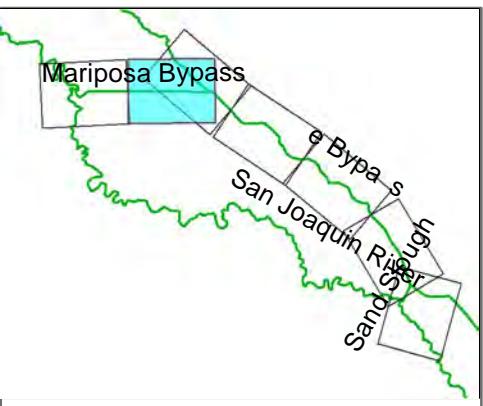
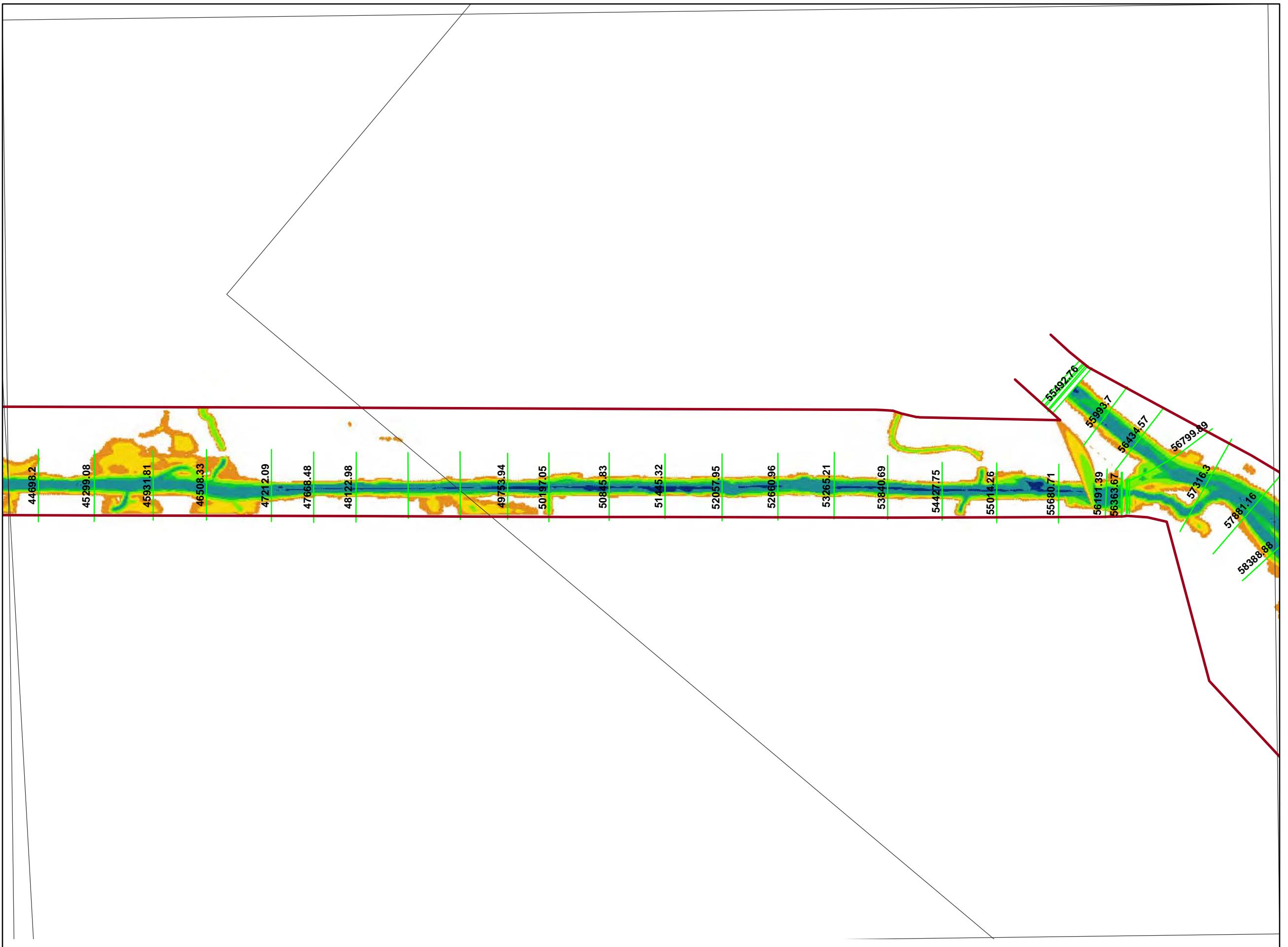
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 2200 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
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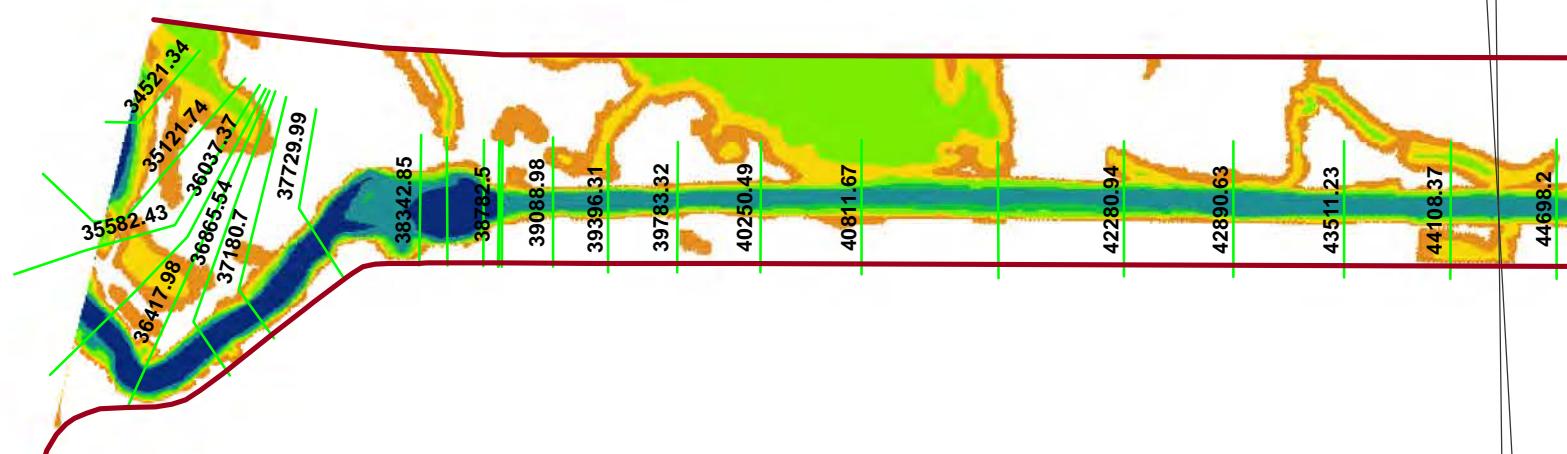
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

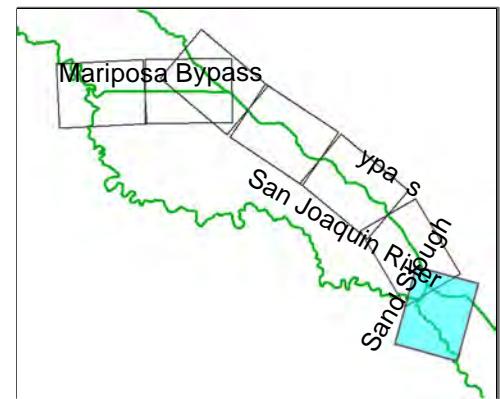
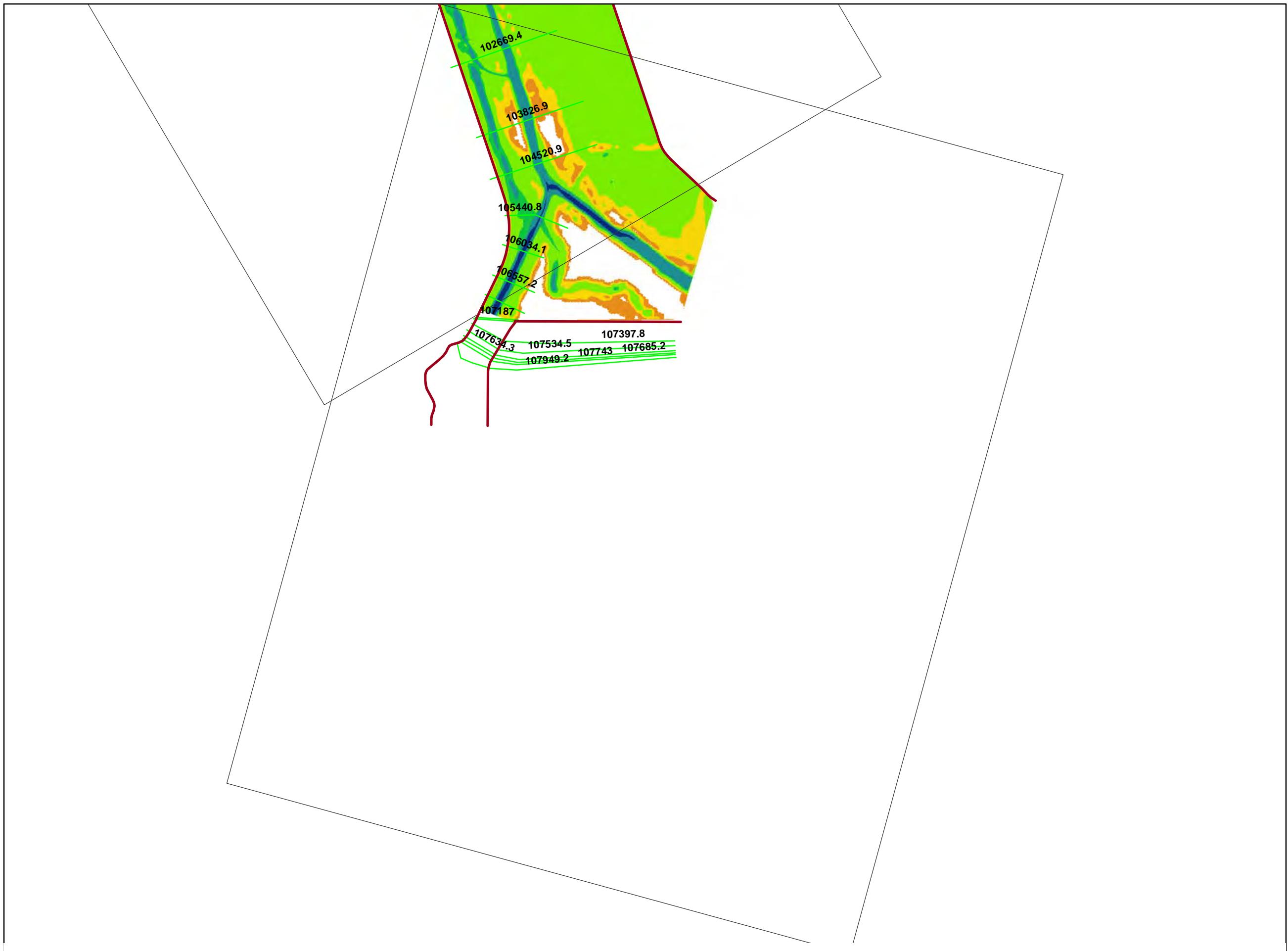
Inundation 2200 cfs

depth (ft)



0 1,000 2,000
Feet

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Hydraulics Group
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

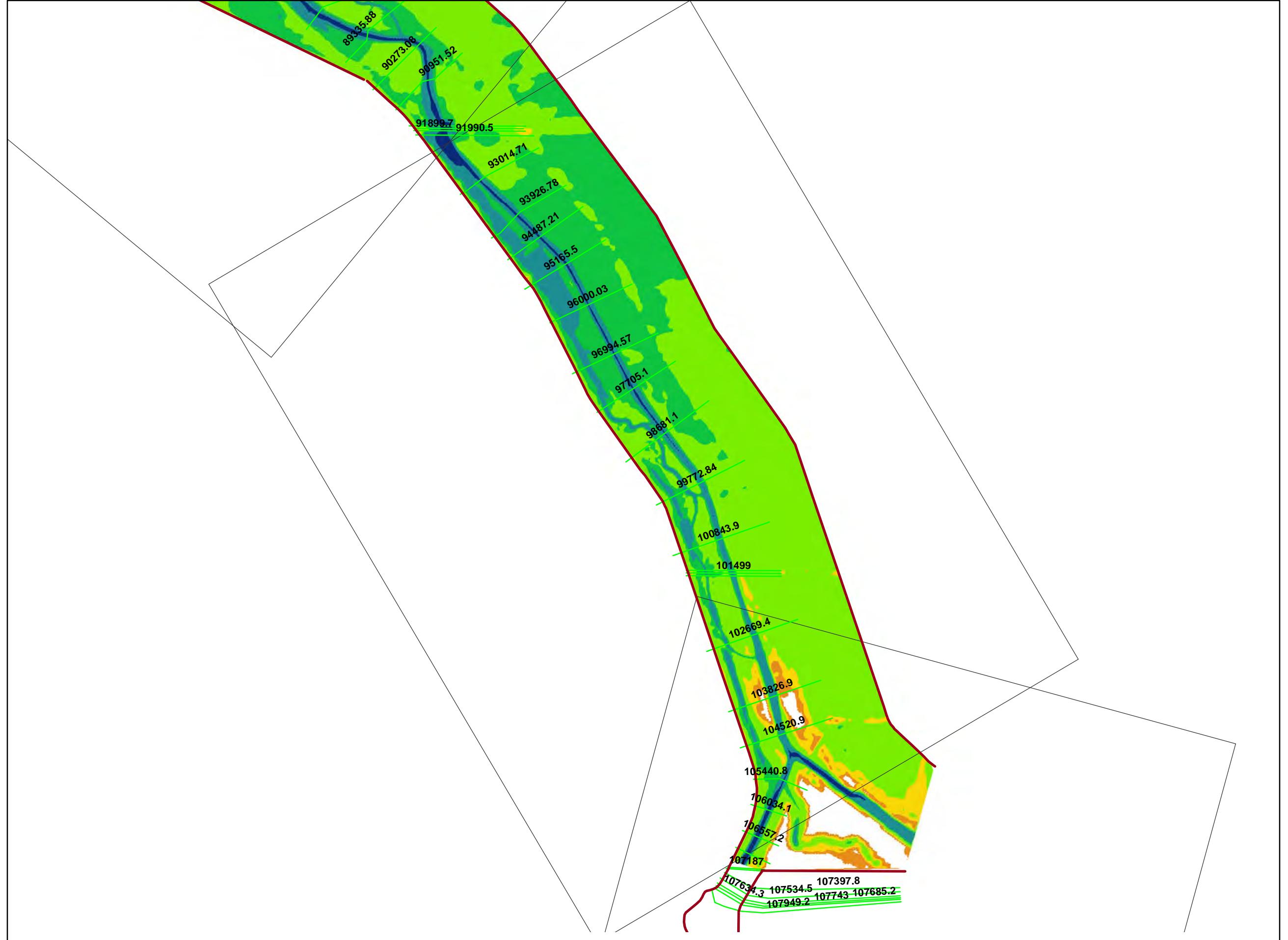
depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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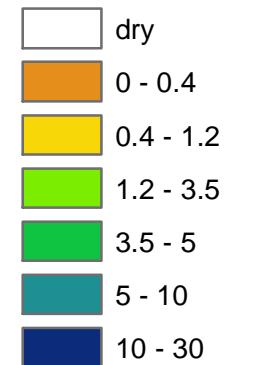
Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

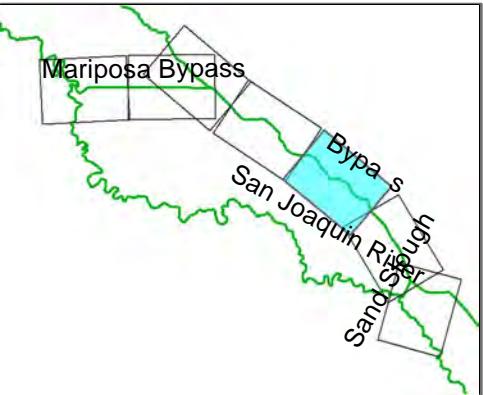
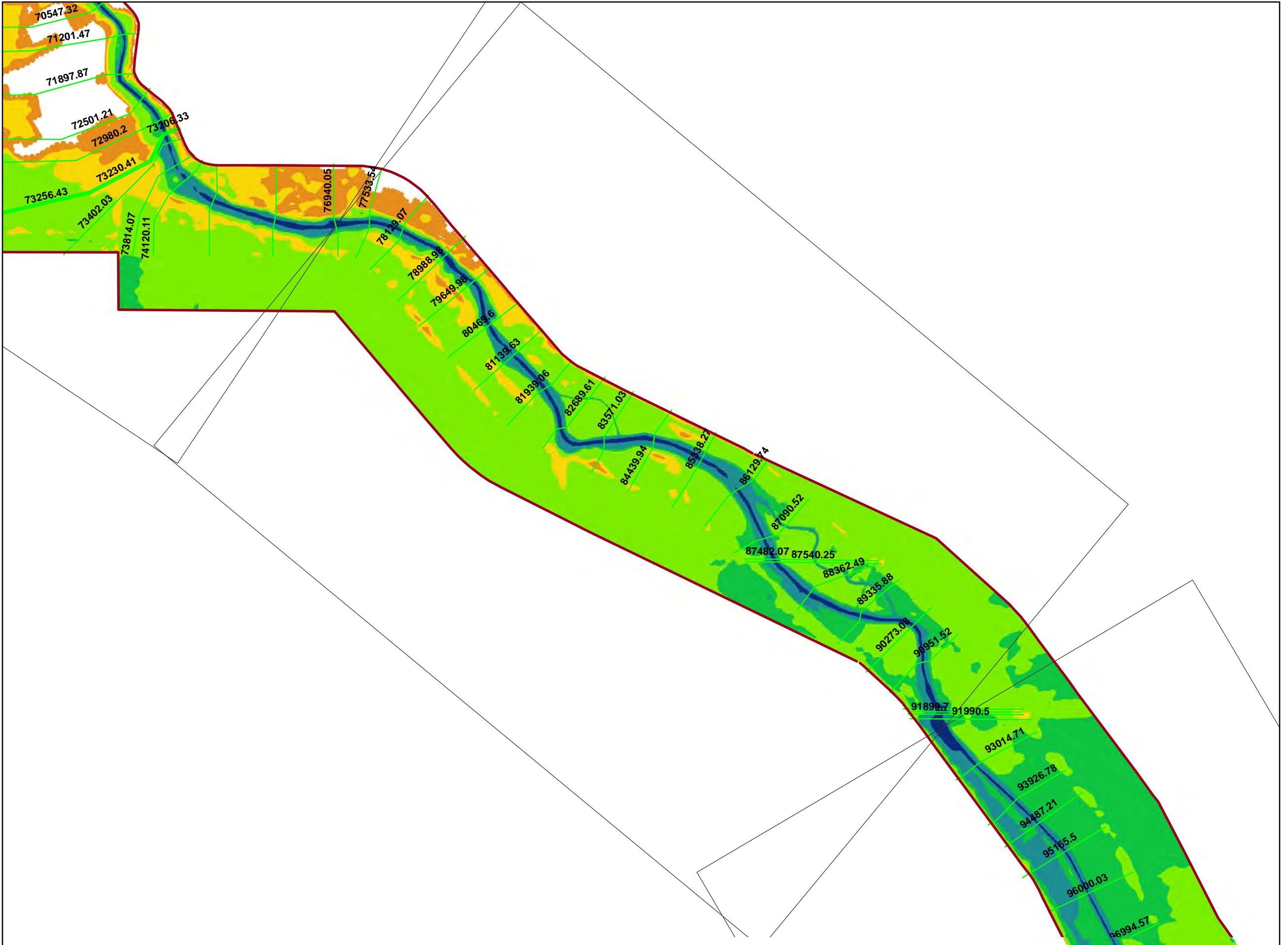
depth (ft)



0 1,000 2,000
Feet

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Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012

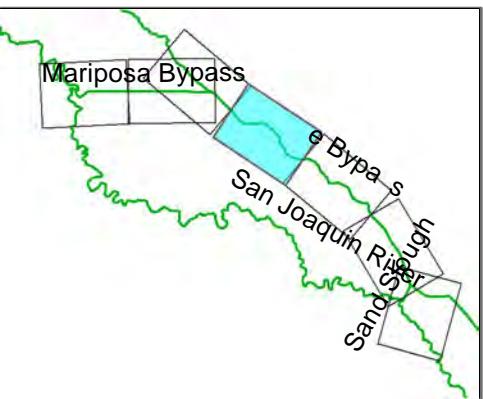
Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30



**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

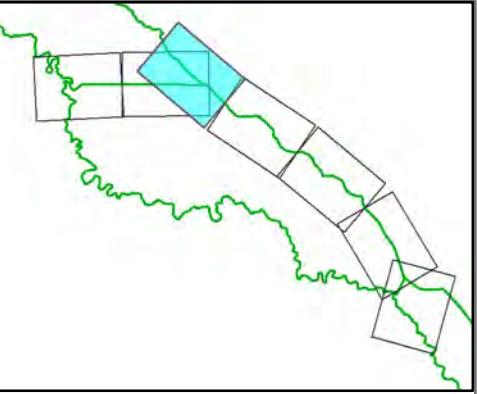
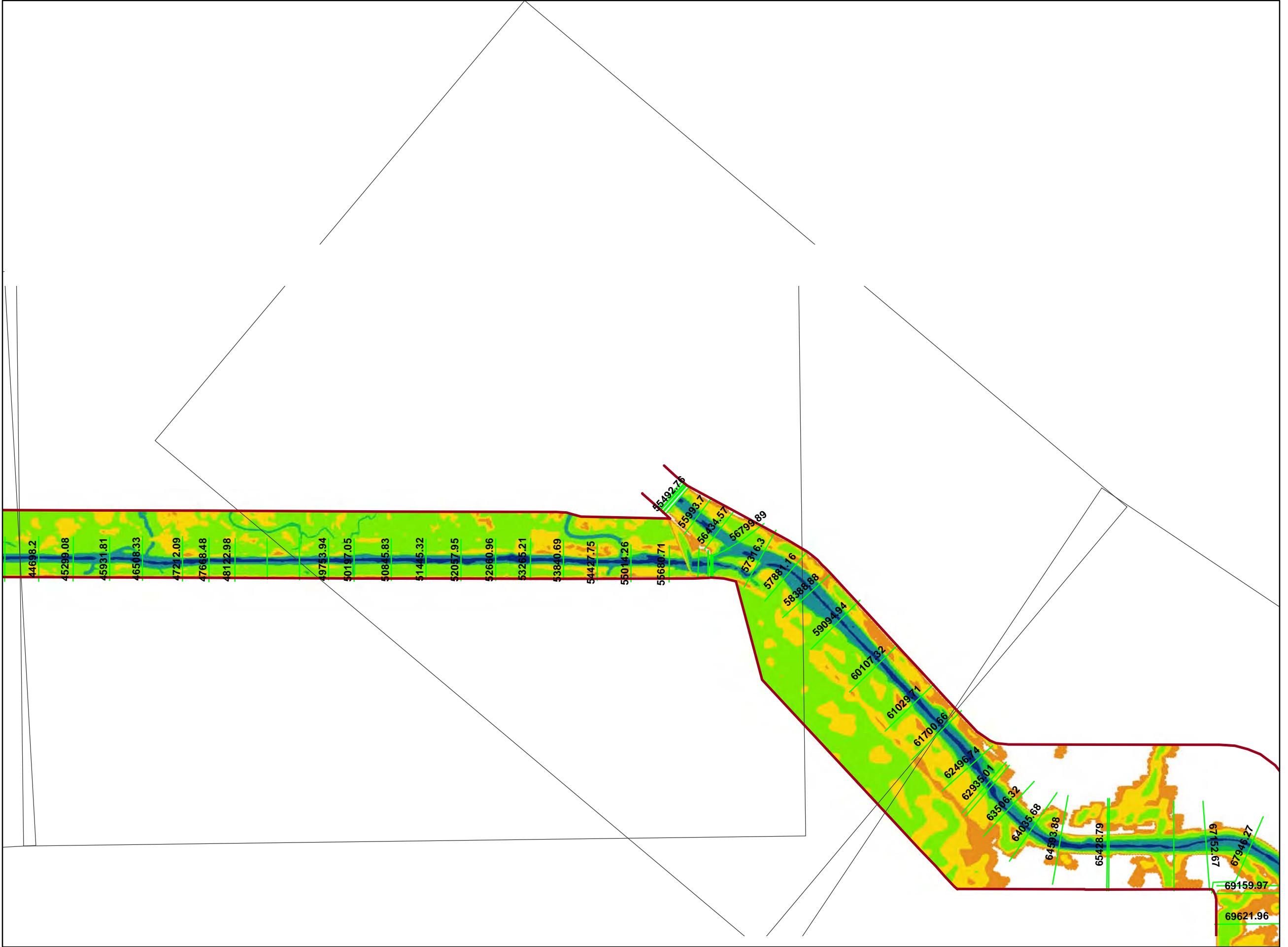
depth (ft)



0 1,000 2,000
Feet

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Hydraulics Group
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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

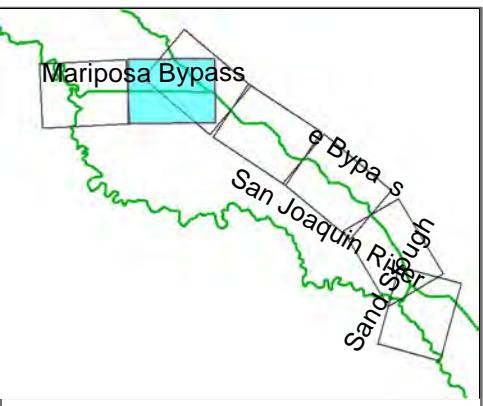
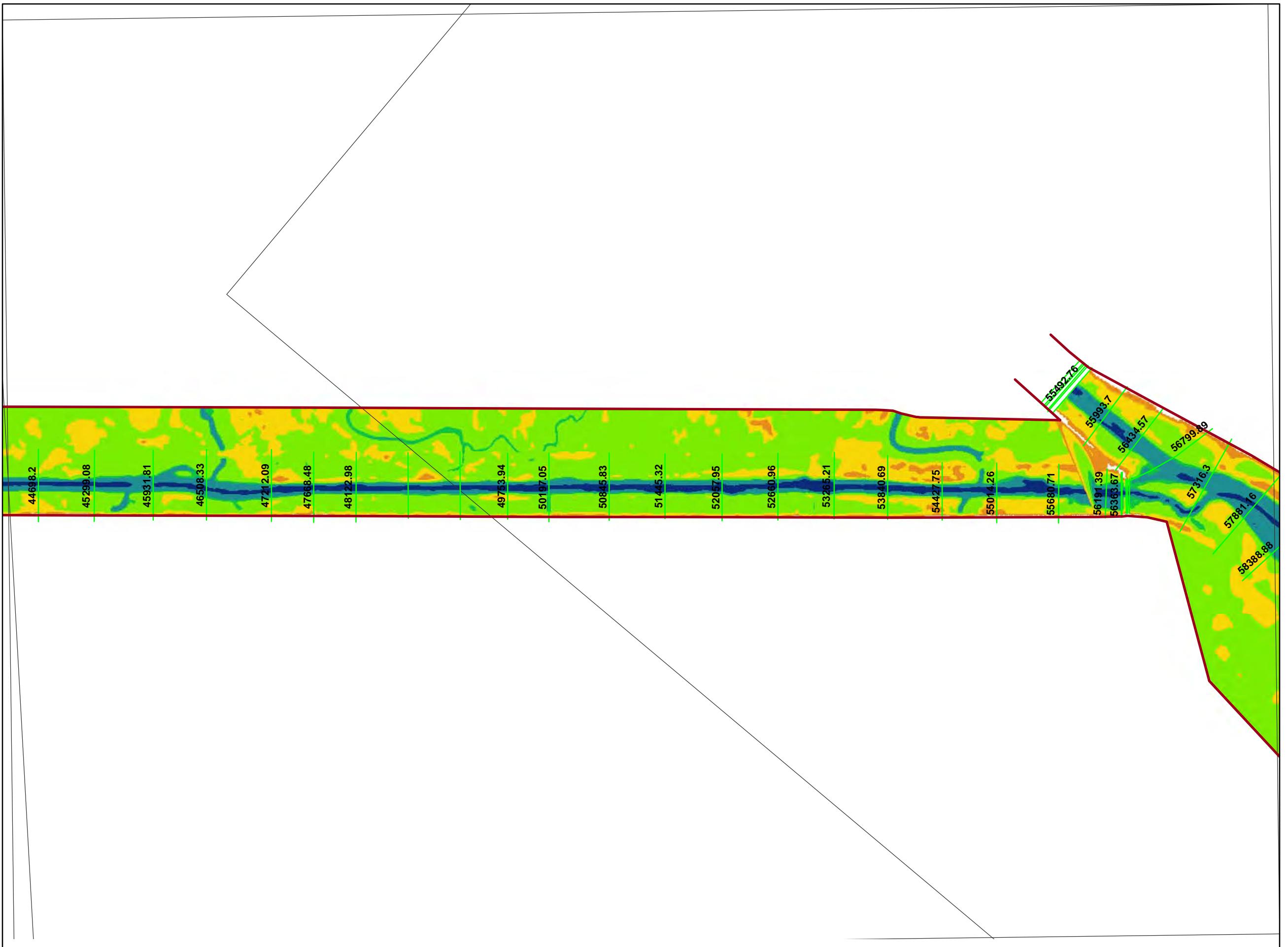
Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

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**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

depth (ft)

dry
0 - 0.4
0.4 - 1.2
1.2 - 3.5
3.5 - 5
5 - 10
10 - 30

0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
Technical Service Center
Bureau of Reclamation
Denver, CO



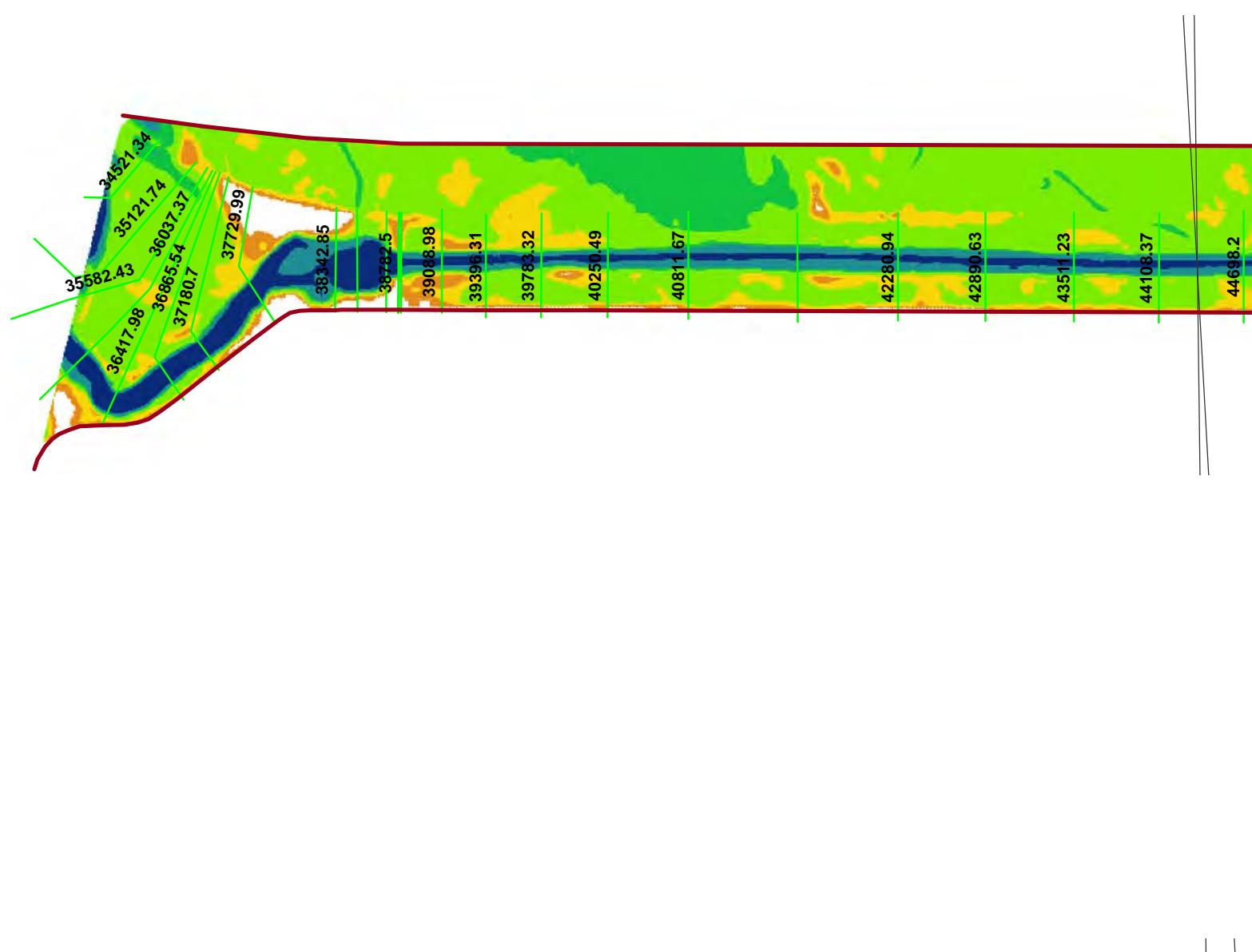
**Alternative 2
with Levee Setback
Bypass Innundation
November 27, 2012**

Legend

- Bypass Levee Setback
- XS Cut Lines
- Plate Layout Grid

Inundation 4500 cfs

depth (ft)



0 1,000 2,000
Feet

Sedimentation and River
Hydraulics Group
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