

P:\710416-GIS\mxd\RMDDP_RiverDrainageAnalysis_2008\710416_Figure-5.3c_scr_Alt3-4_5yr_112108.mxd



NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

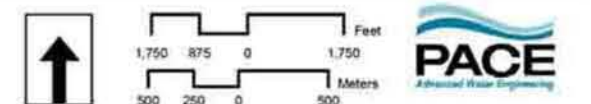


Figure 5.3c

ALTERNATIVE 3 & 4
5 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

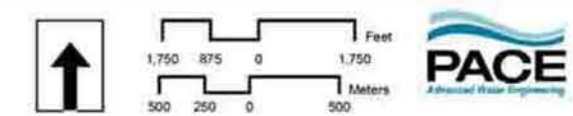
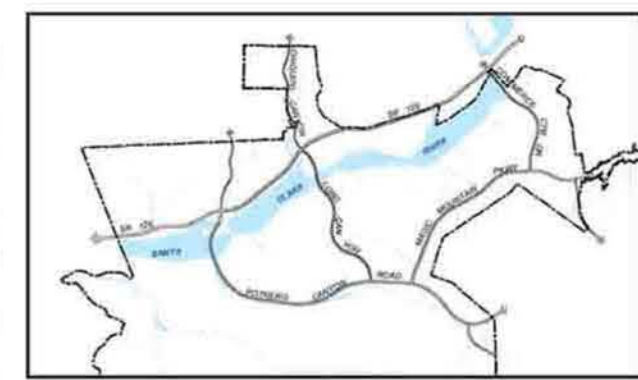


Figure 5.3d
ALTERNATIVE 3 & 4
10 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

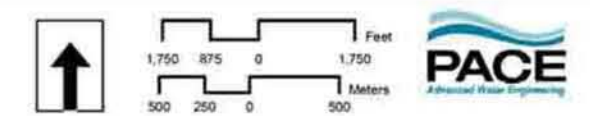
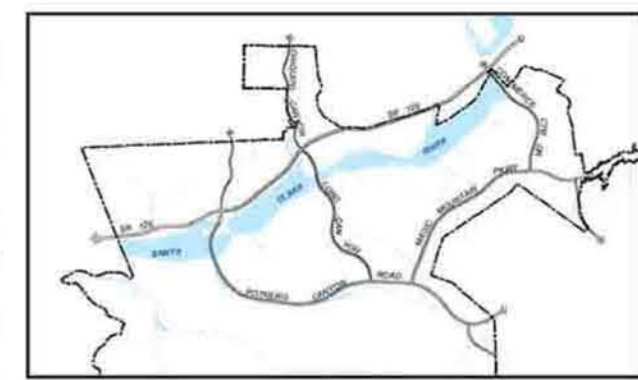
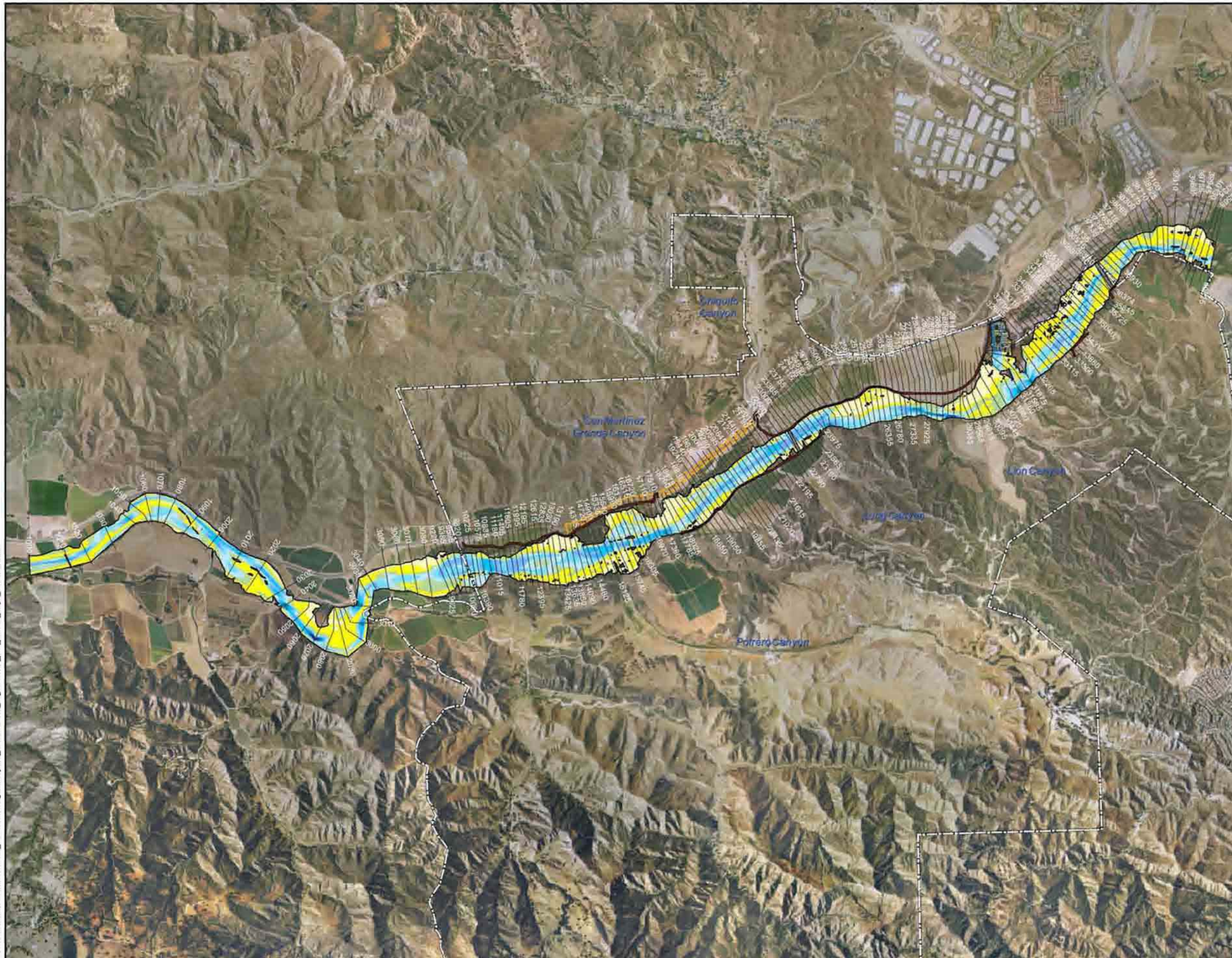


Figure 5.3e
ALTERNATIVE 3 & 4
20 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

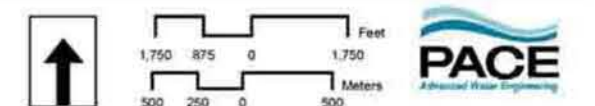
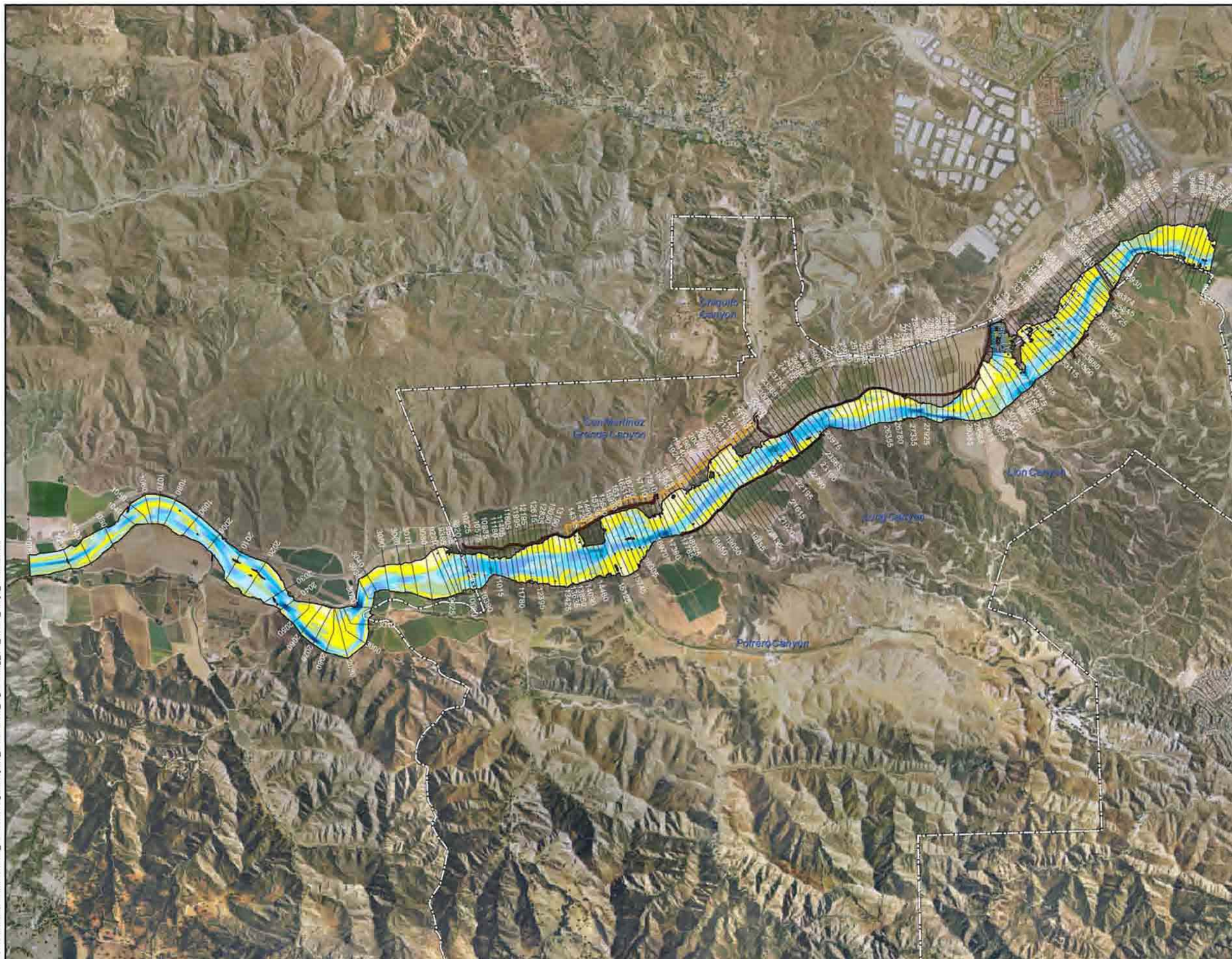


Figure 5.3f

ALTERNATIVE 3 & 4
50 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

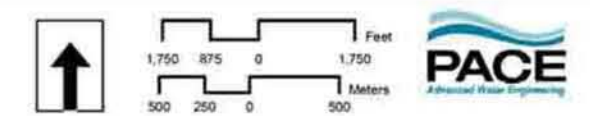
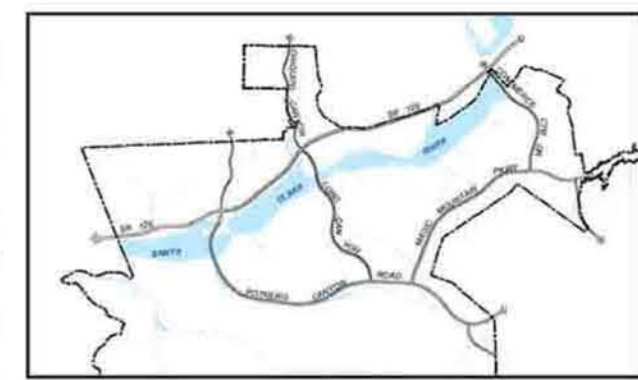
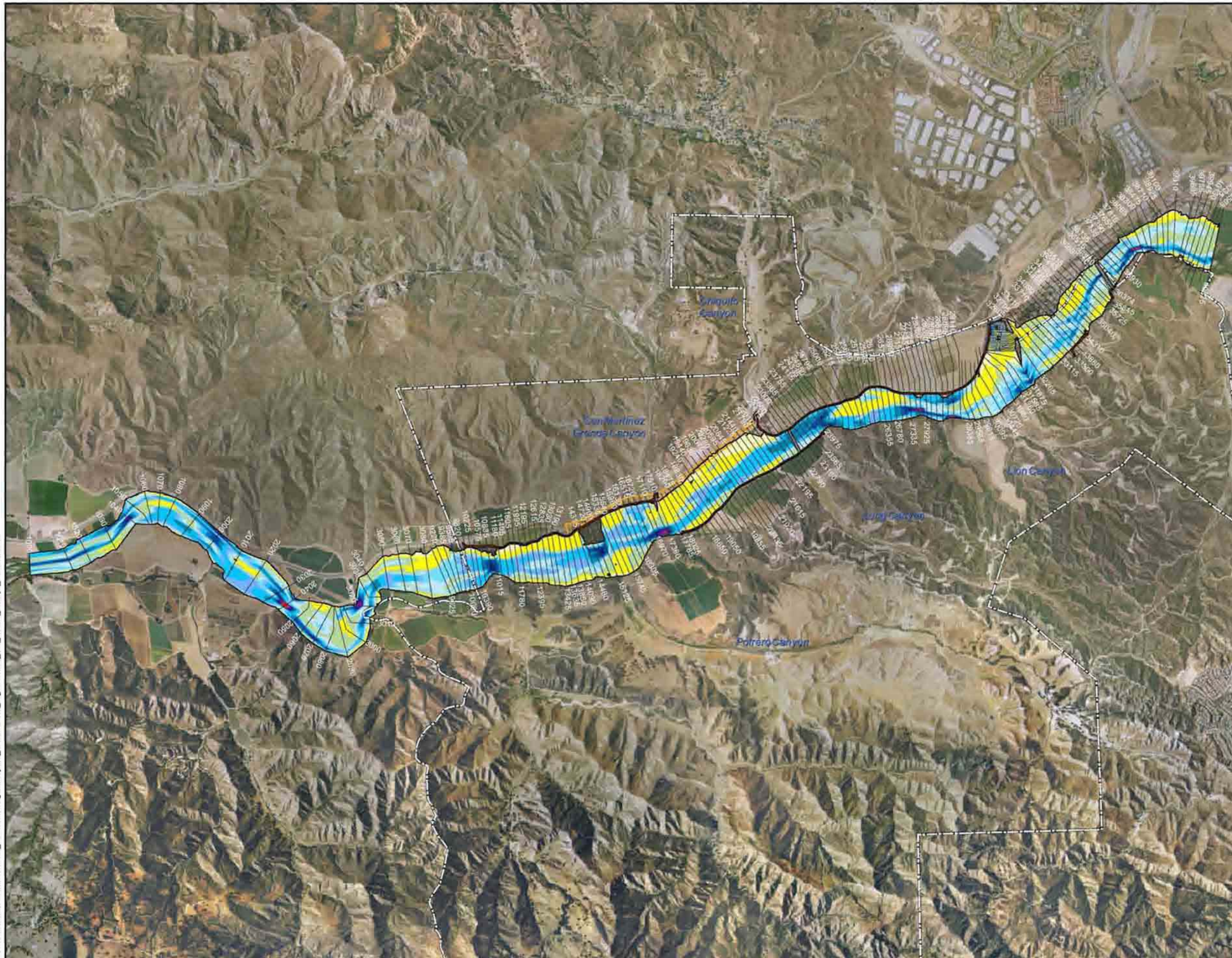


Figure 5.3g
ALTERNATIVE 3 & 4
100 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND

A LENNAR/LNR COMPANY

L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

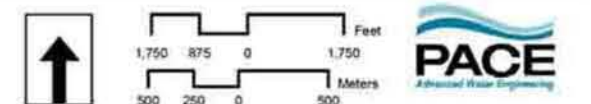
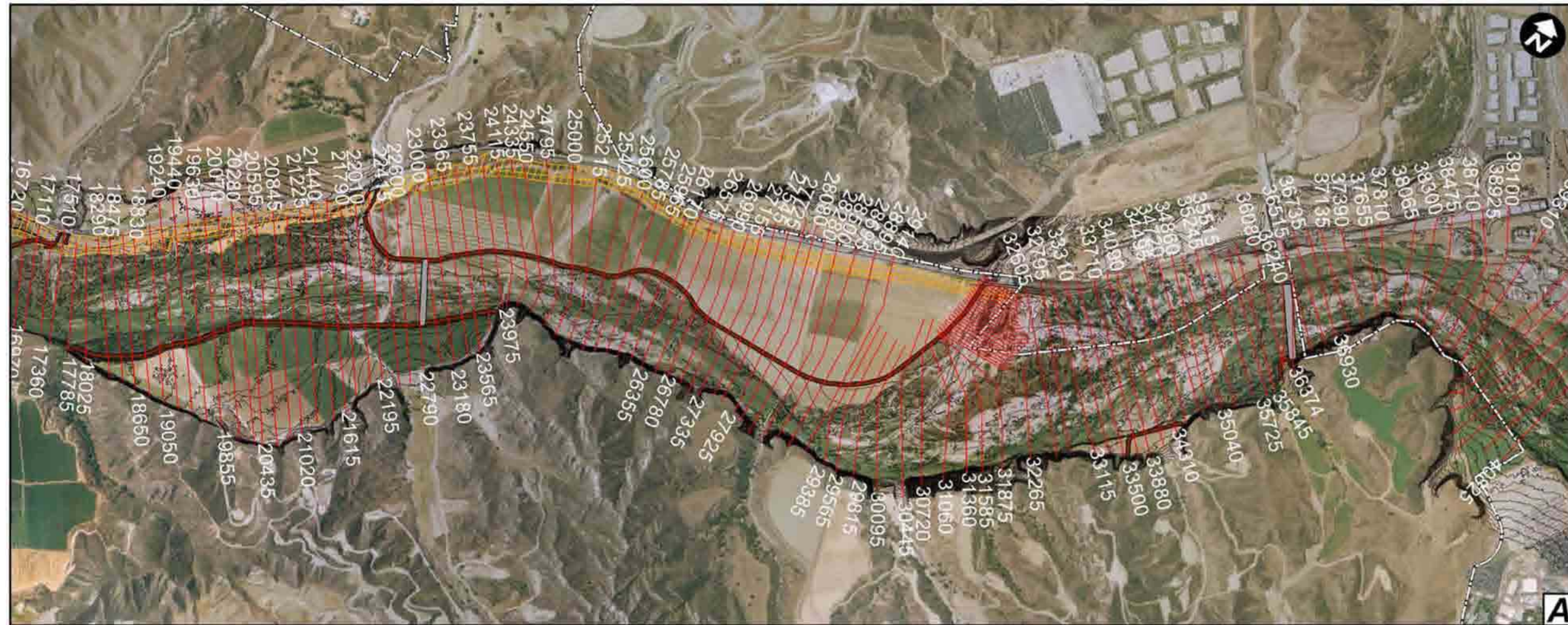


Figure 5.3h

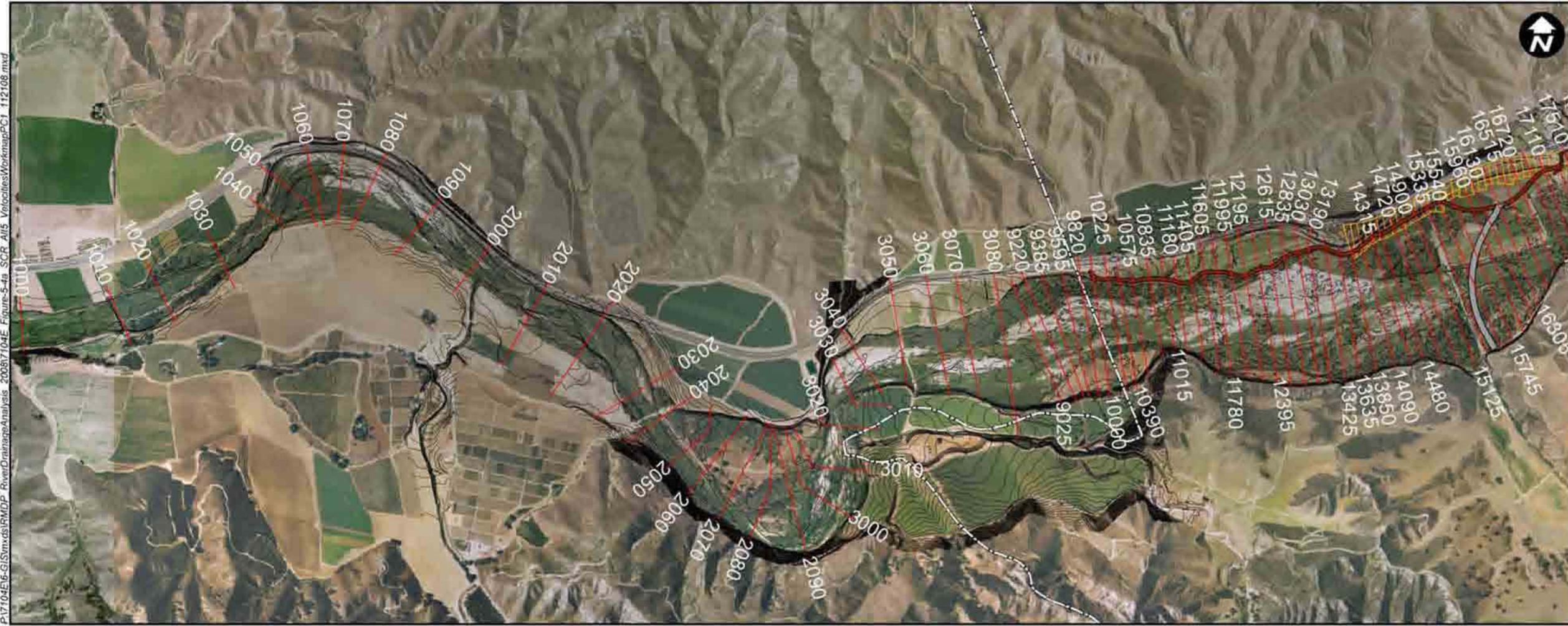
ALTERNATIVE 3 & 4
CAPITAL FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Bridge Locations
- Utility Corridor
- Cross Sections



Feet
1,750 875 0 1,750
Meters
500 250 0 500

PACE
Advanced Water Engineering

Figure 5.4a
**ALTERNATIVE 5
VELOCITIES WORKMAP
SANTA CLARA RIVER**

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NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

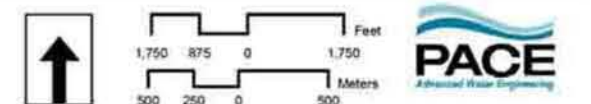


Figure 5.4b

ALTERNATIVE 5
2 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

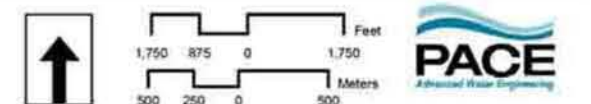


Figure 5.4c

ALTERNATIVE 5
5 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND

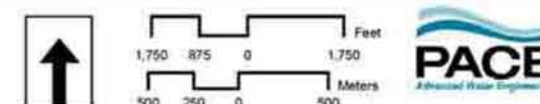
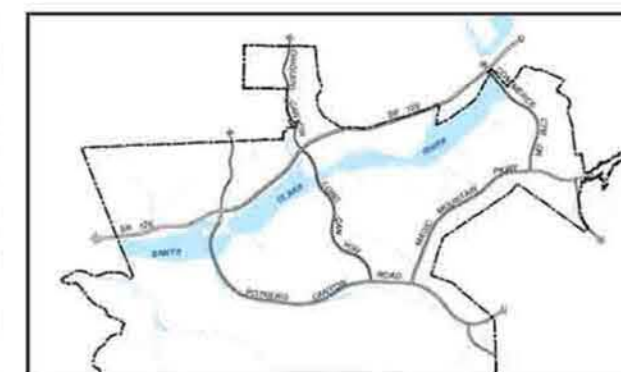
A LENNAR/LNR COMPANY

L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

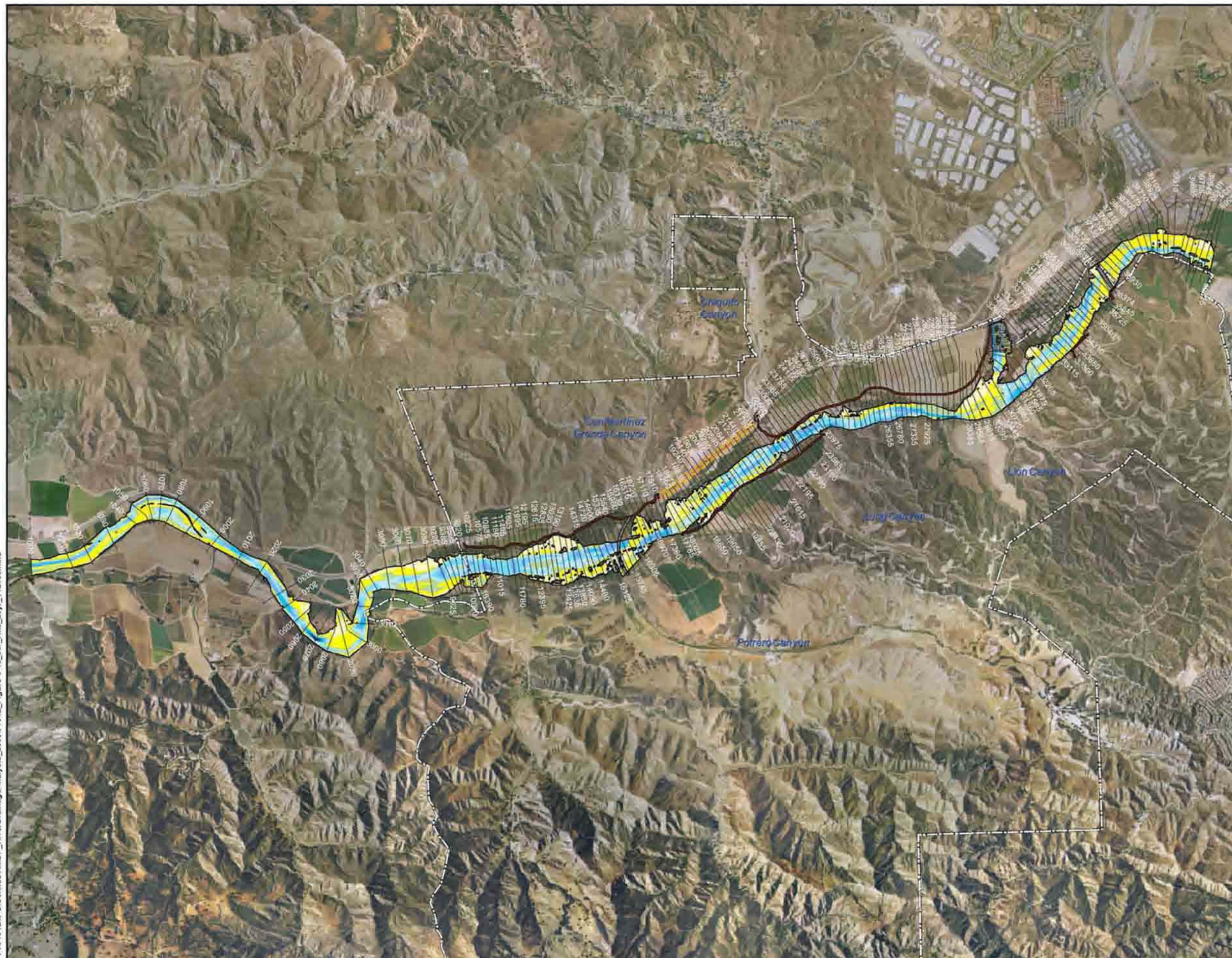
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- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39



PACE
Advanced Water Engineering

Figure 5.4d
ALTERNATIVE 5
10 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
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- 30 - 39

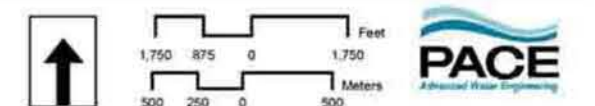
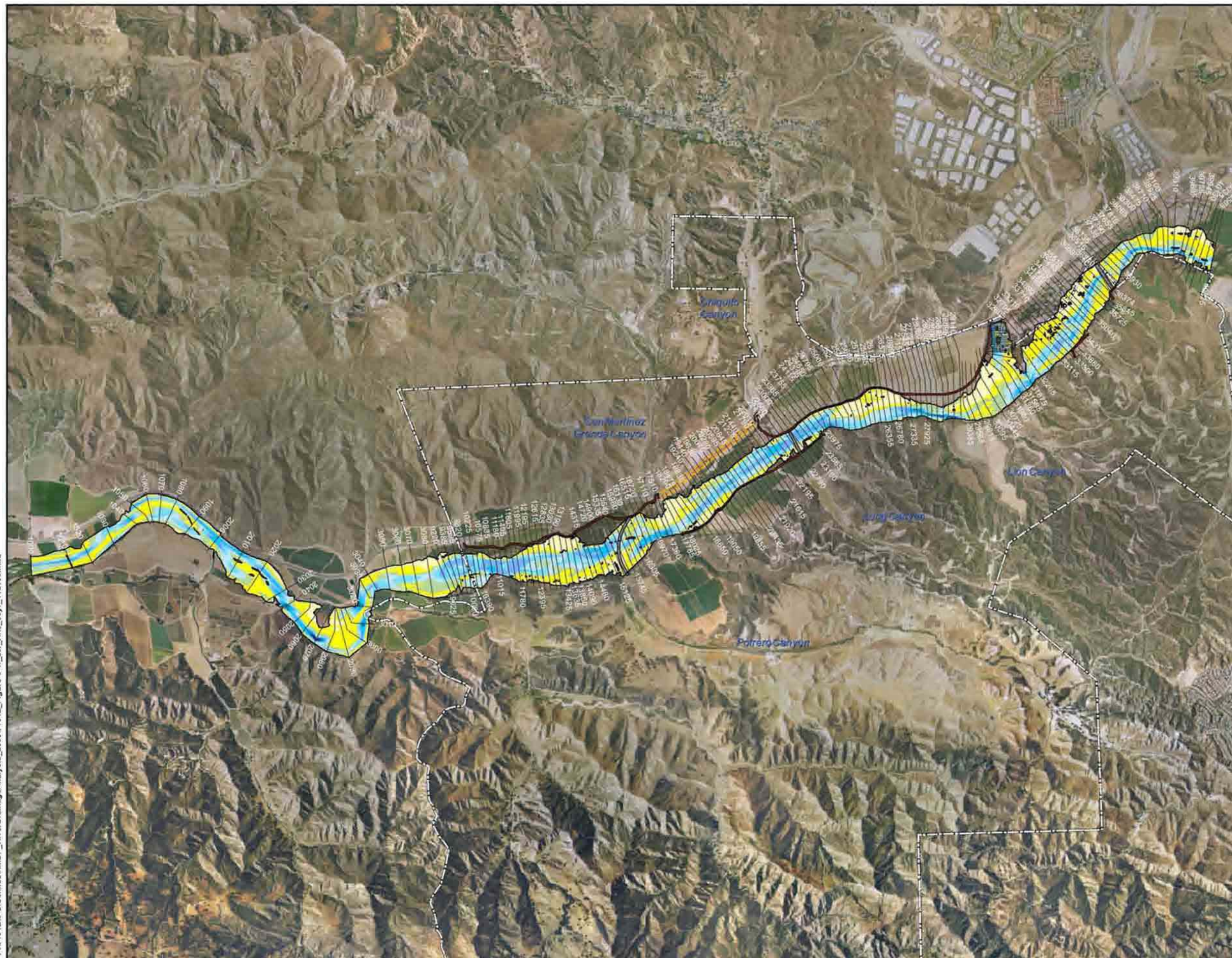


Figure 5.4e

ALTERNATIVE 5
20 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
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- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
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- 30 - 39

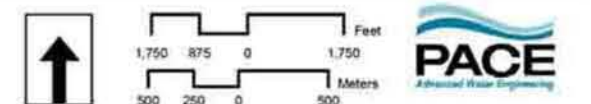
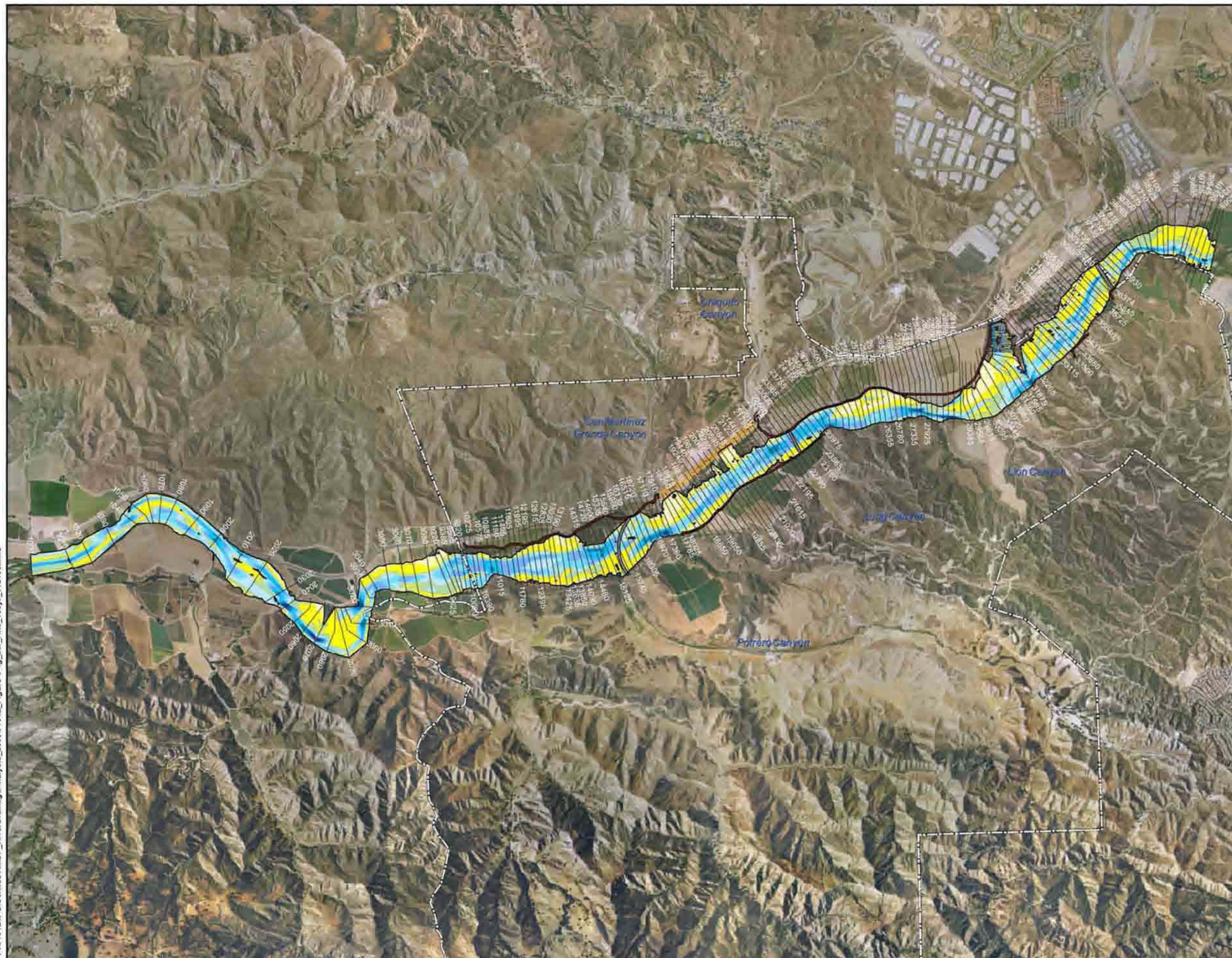


Figure 5.4f

ALTERNATIVE 5
50 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

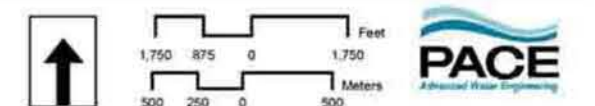
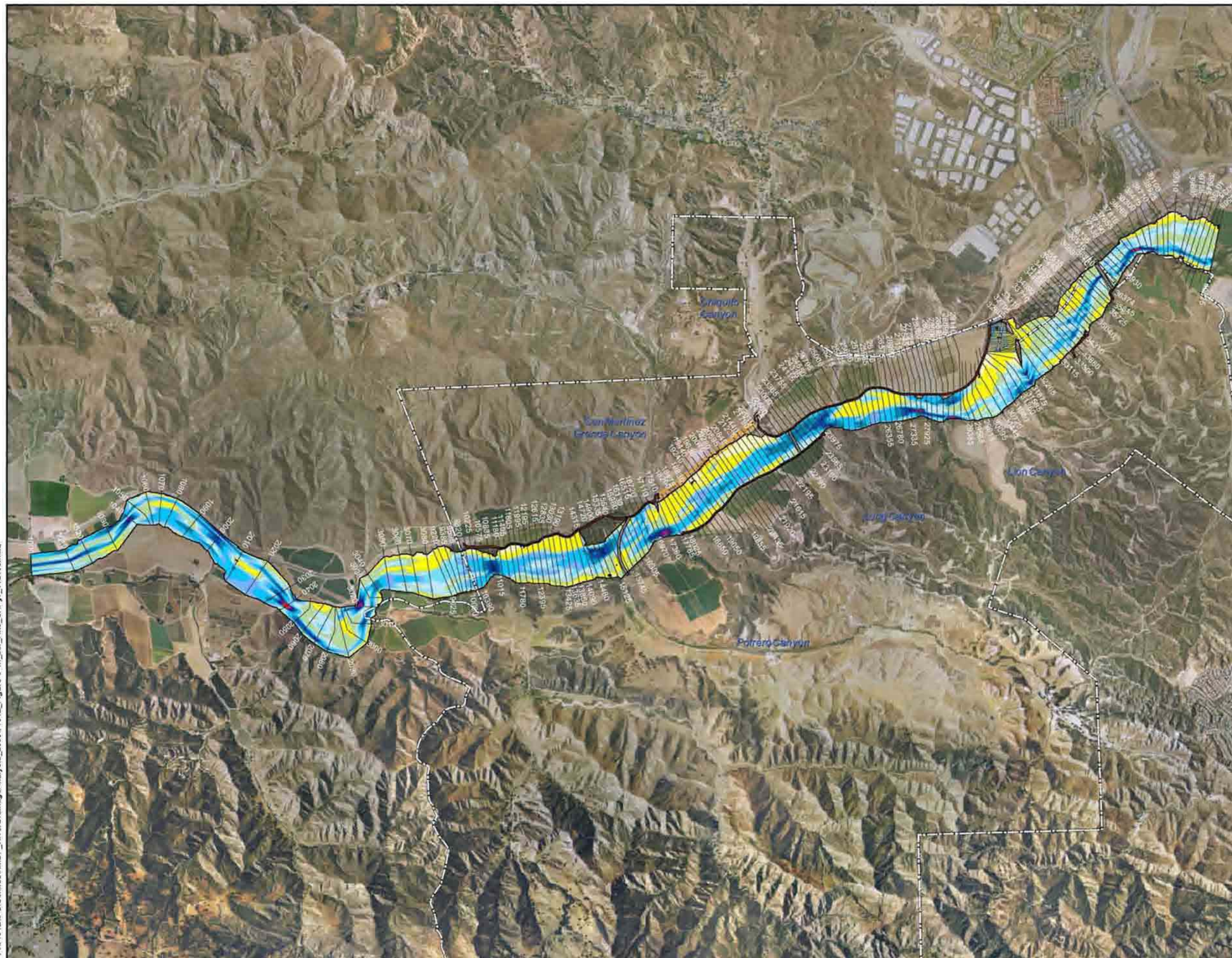


Figure 5.4g

ALTERNATIVE 5
100 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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NEWHALL LAND

A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

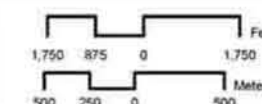
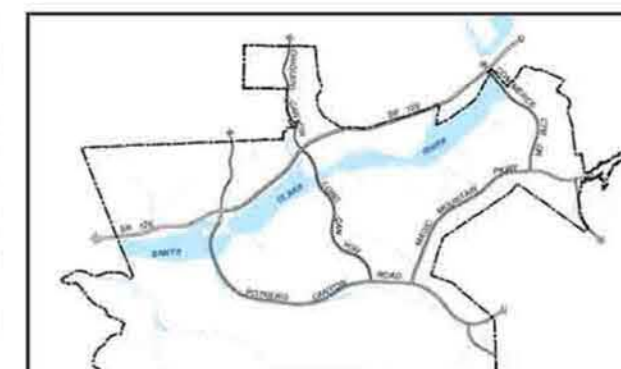
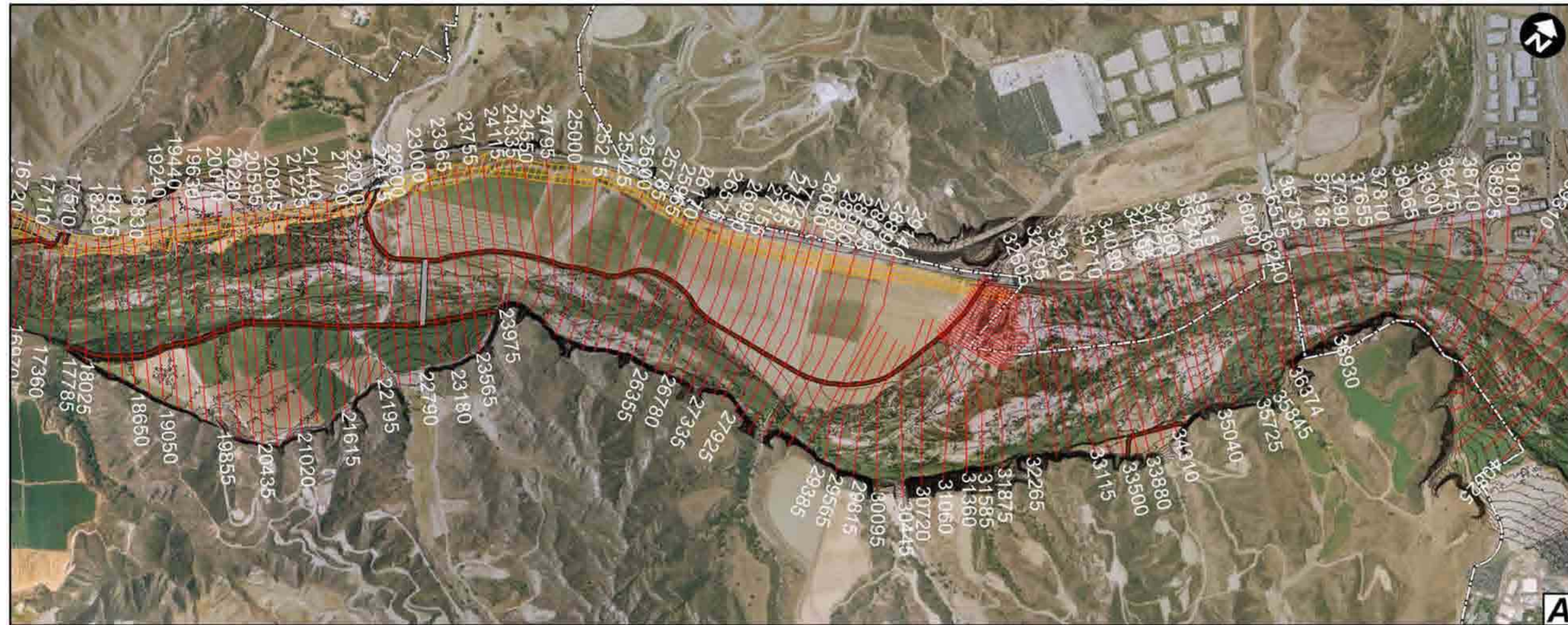


Figure 5.4h

ALTERNATIVE 5
CAPITAL FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Bridge Locations
- Utility Corridor
- Cross Sections

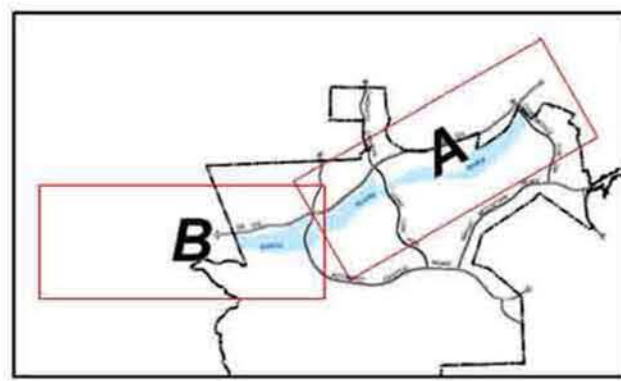
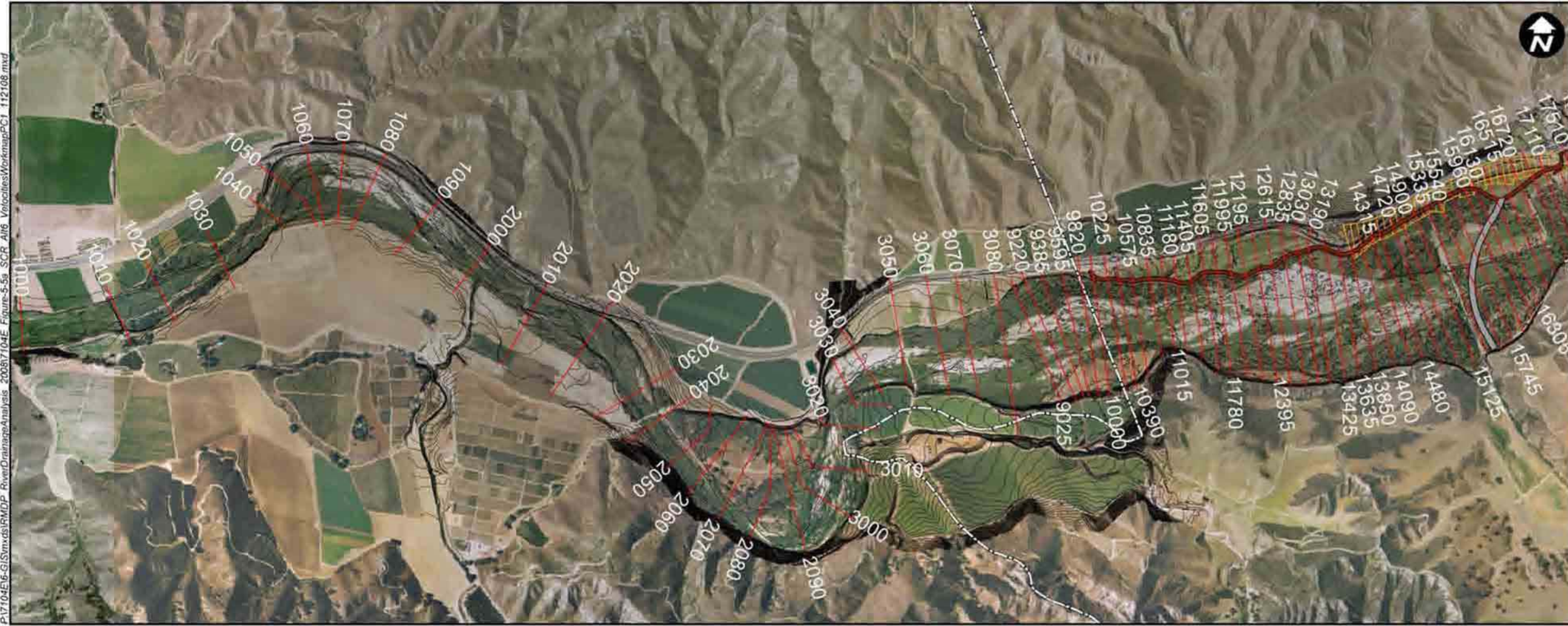


Figure 5.5a
**ALTERNATIVE 6
VELOCITIES WORKMAP
SANTA CLARA RIVER**

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NEWHALL LAND

A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

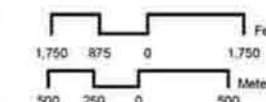
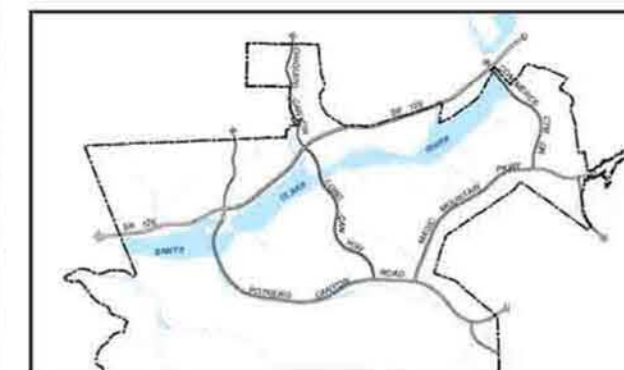


Figure 5.5b

ALTERNATIVE 6
2 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

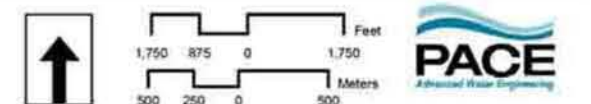


Figure 5.5c

ALTERNATIVE 6
5 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
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- 30 - 39

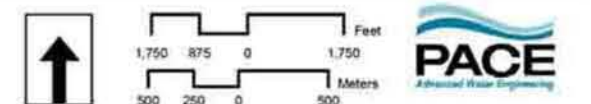


Figure 5.5d

ALTERNATIVE 6
10 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

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- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
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- 12 - 15
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- 18 - 21
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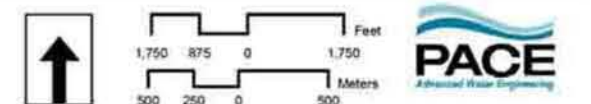
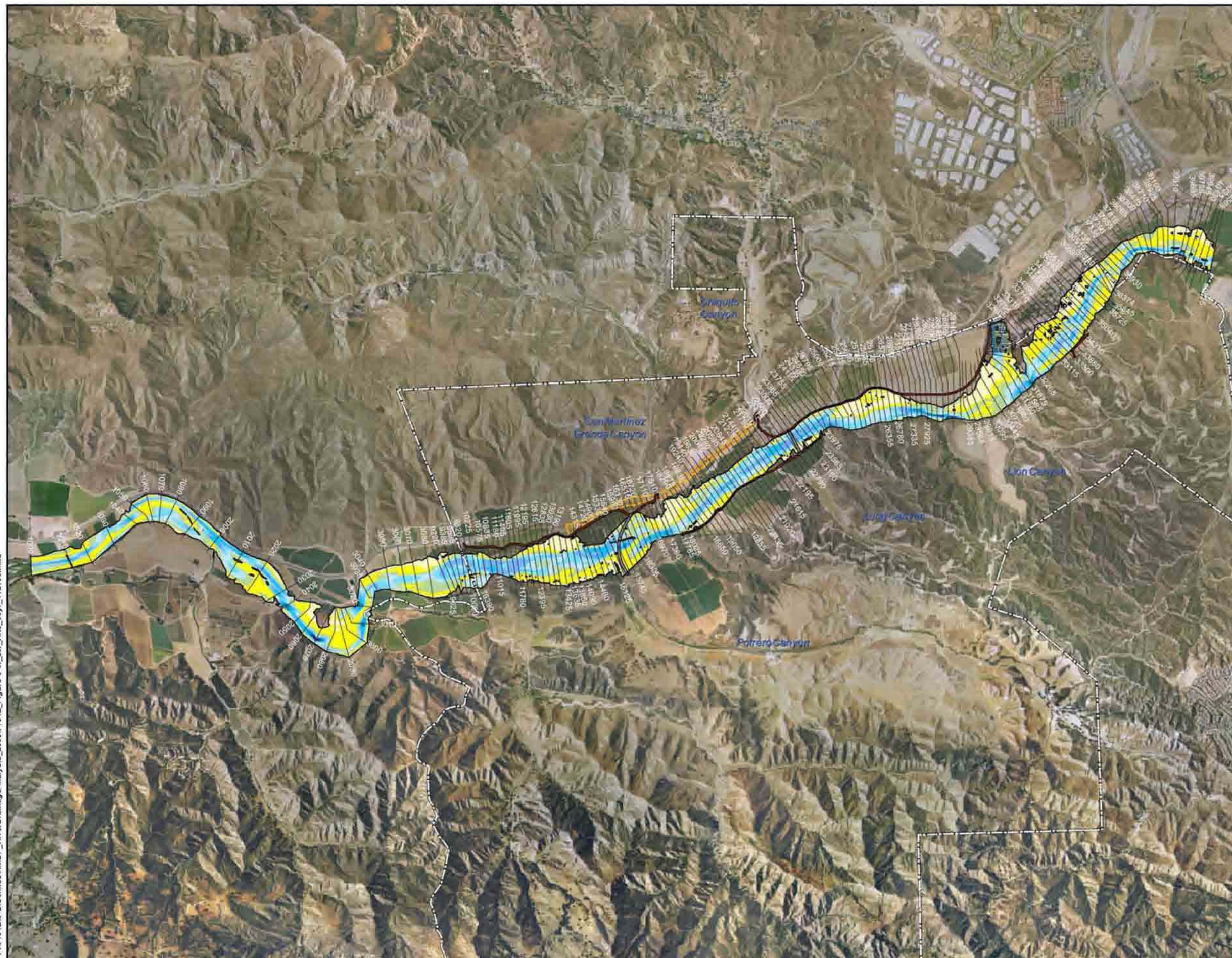


Figure 5.5e

ALTERNATIVE 6
20 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
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- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
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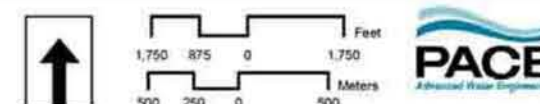
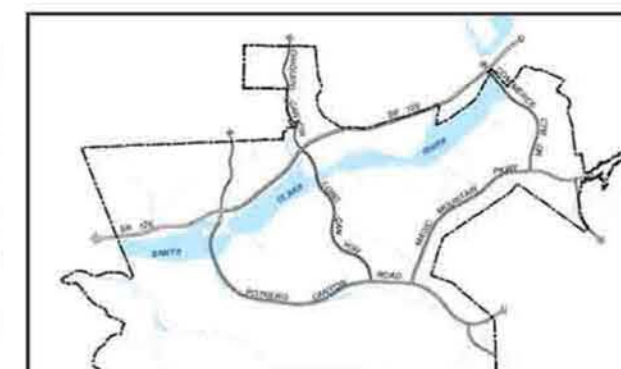
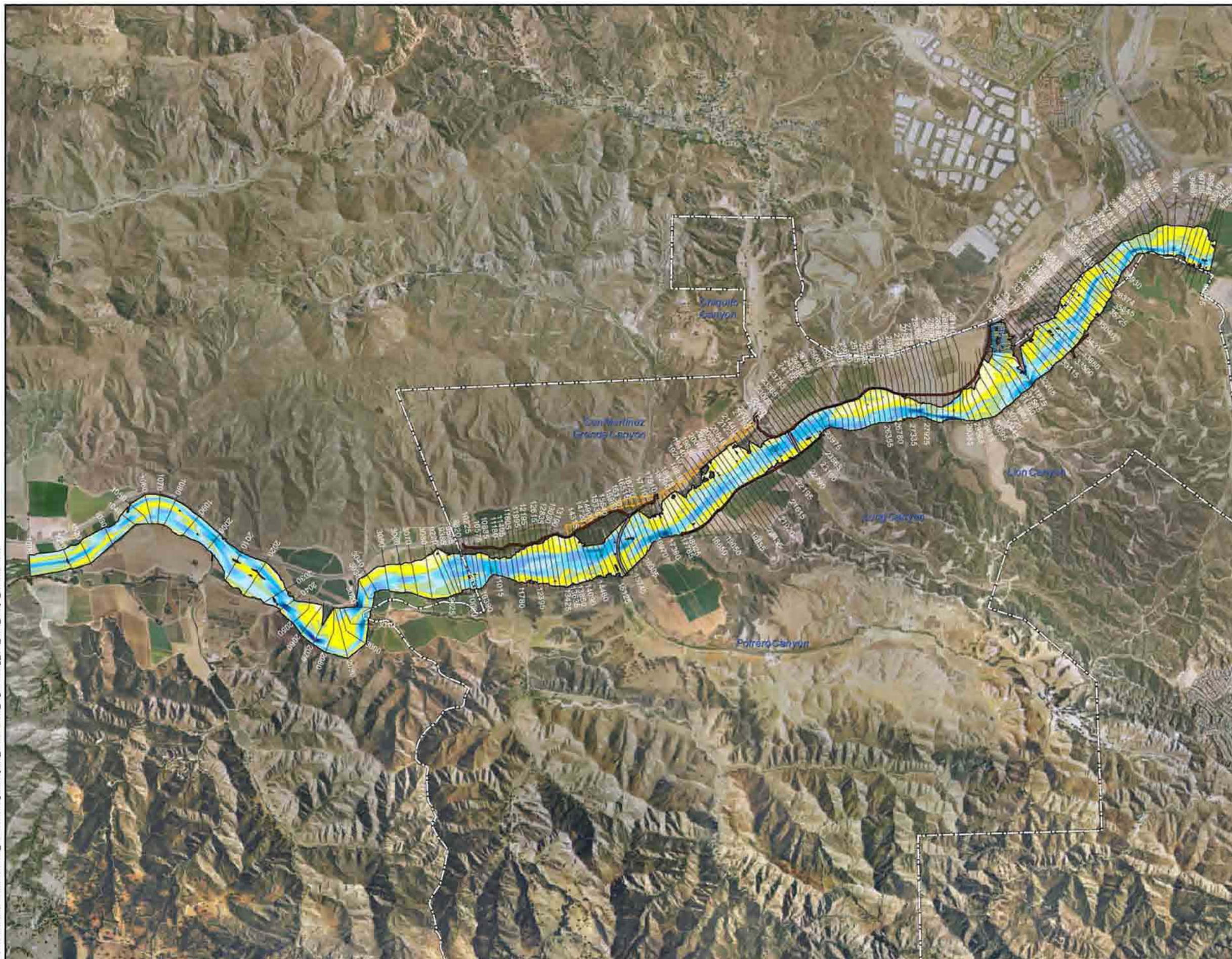


Figure 5.5f

ALTERNATIVE 6
50 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
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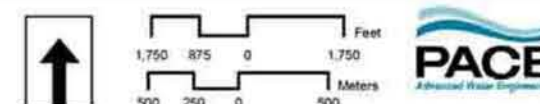
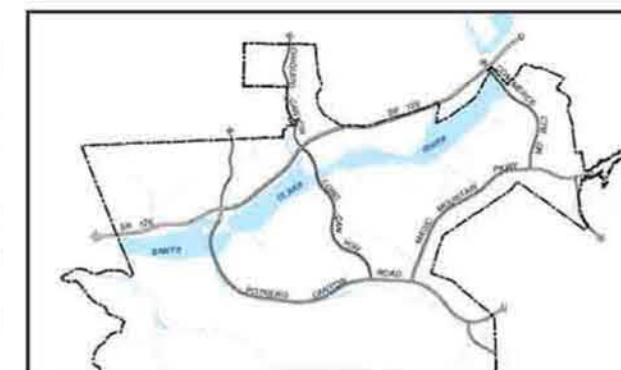
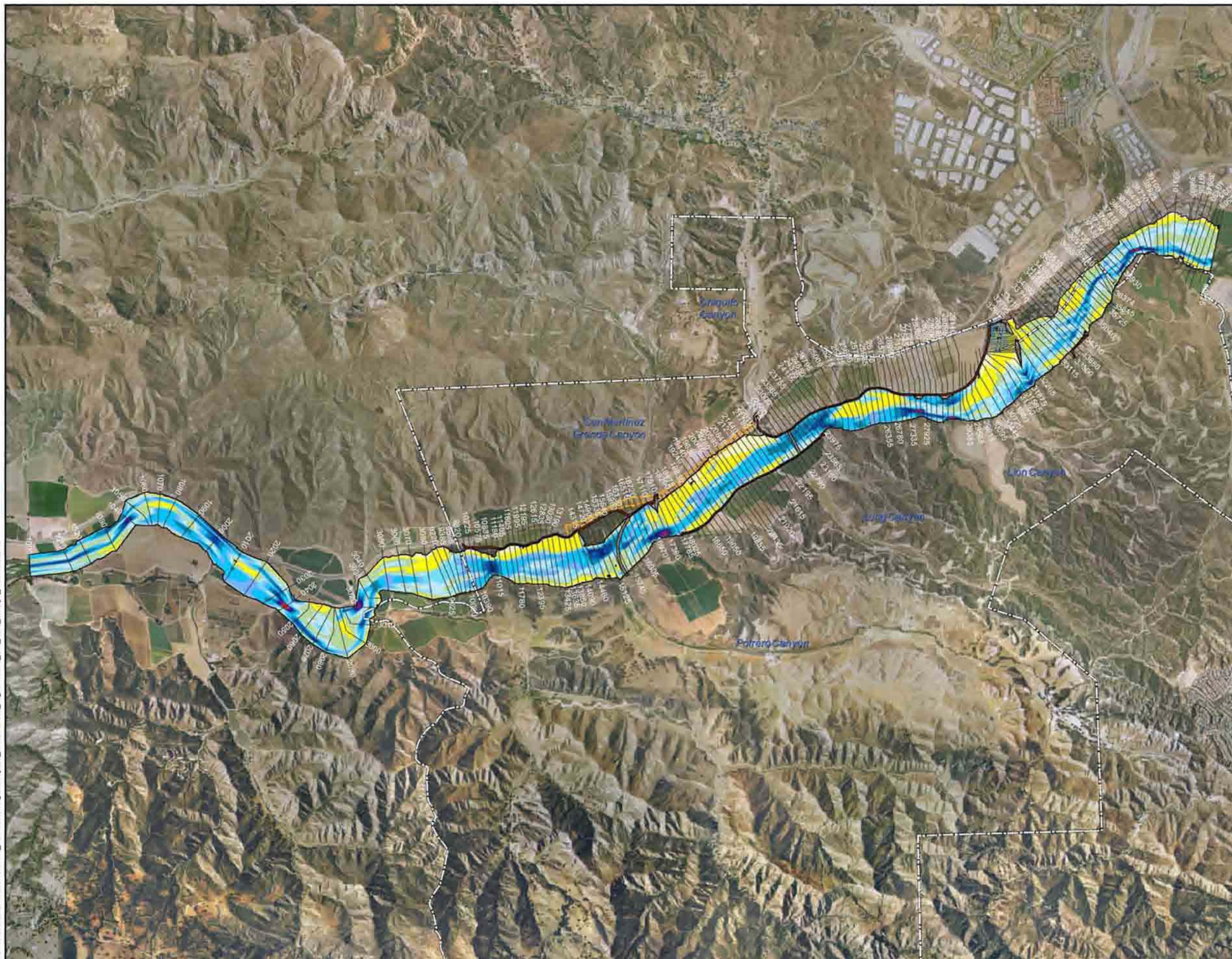


Figure 5.5g

ALTERNATIVE 6
100 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
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- 12 - 15
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- 18 - 21
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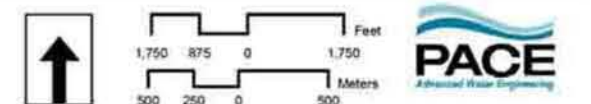


Figure 5.5h

ALTERNATIVE 6
CAPITAL FLOOD EVENT VELOCITY
SANTA CLARA RIVER

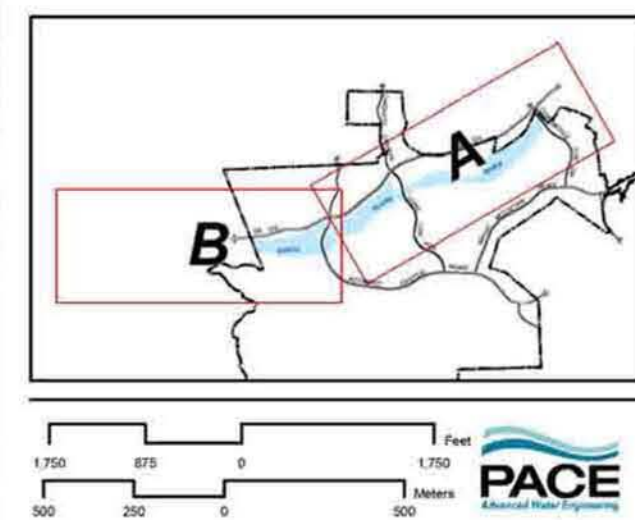
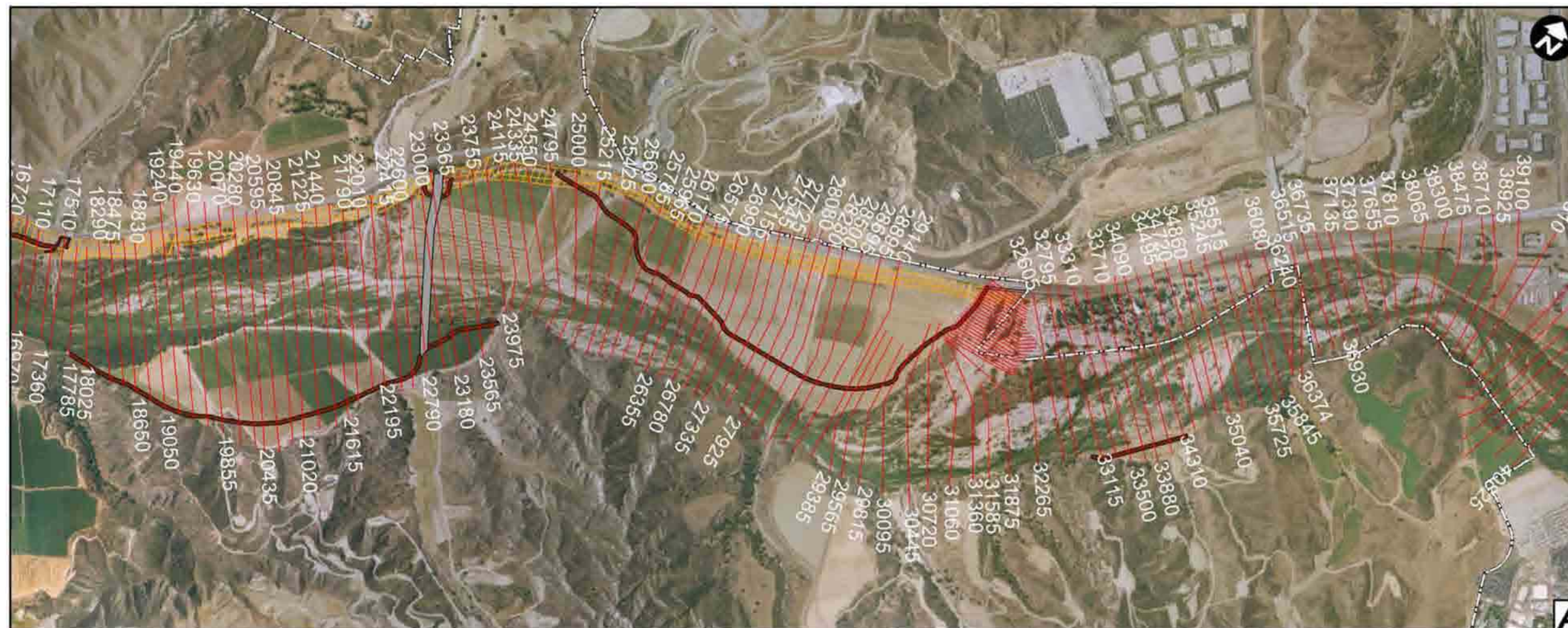


Figure 5.6a

**ALTERNATIVE 7 (Avoidance)
VELOCITIES WORKMAP
SANTA CLARA RIVER**

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L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

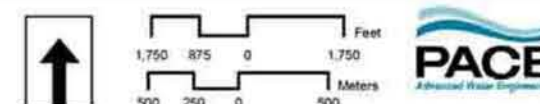
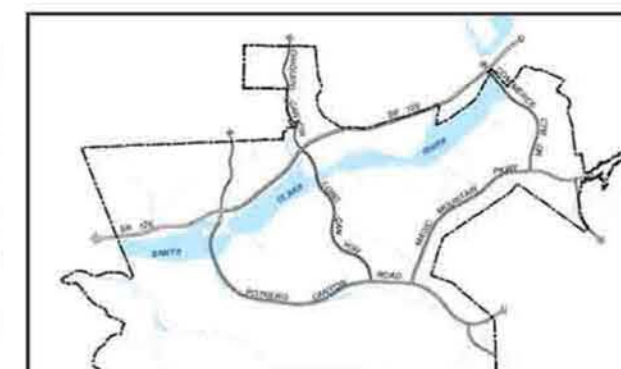


Figure 5.6b

ALTERNATIVE 7 (Avoidance)
2 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

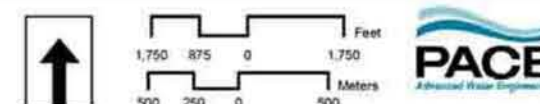
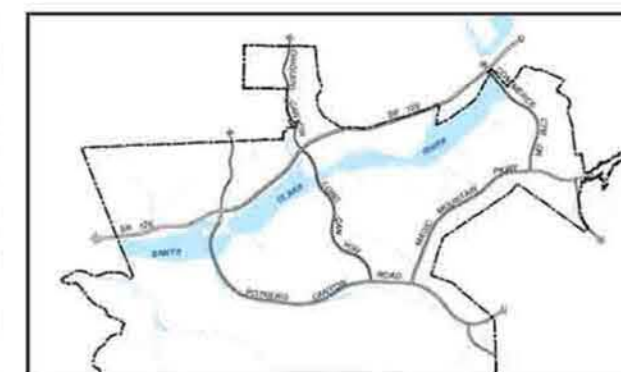


Figure 5.6c

ALTERNATIVE 7 (Avoidance)
5 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



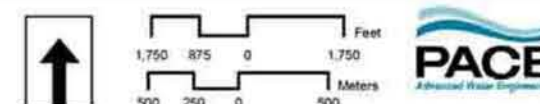
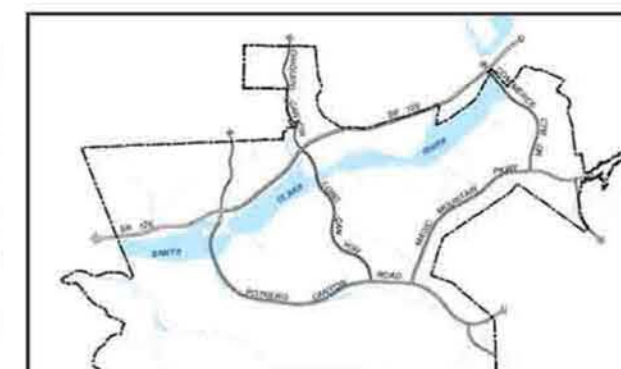
NEWHALL LAND
A LENNAR/LNR COMPANY

L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

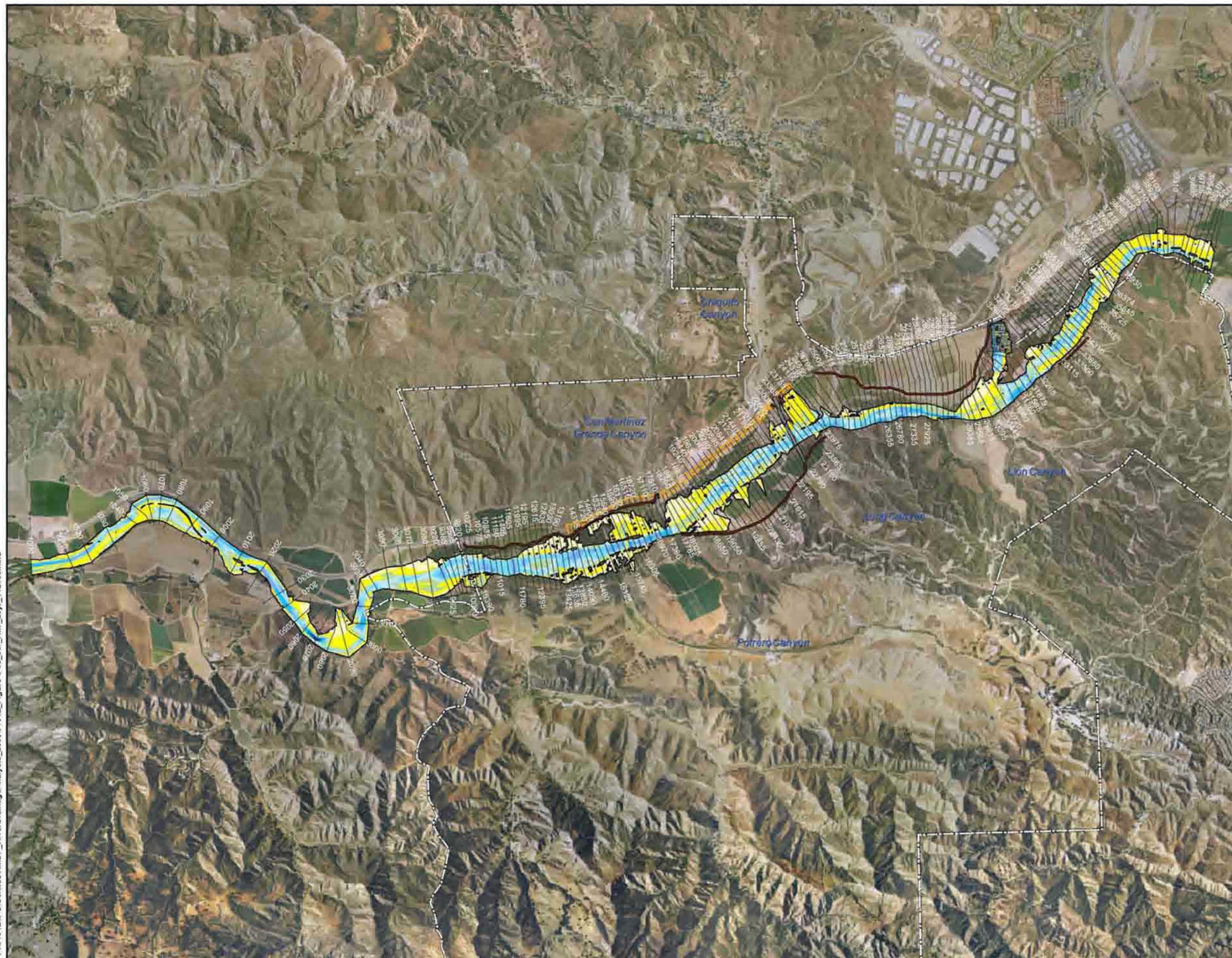


PACE
Advanced Water Engineering

Figure 5.6d

ALTERNATIVE 7 (Avoidance)
10 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER

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NEWHALL LAND
A LENNAR/LNR COMPANY

LEGEND

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

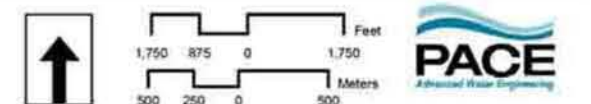
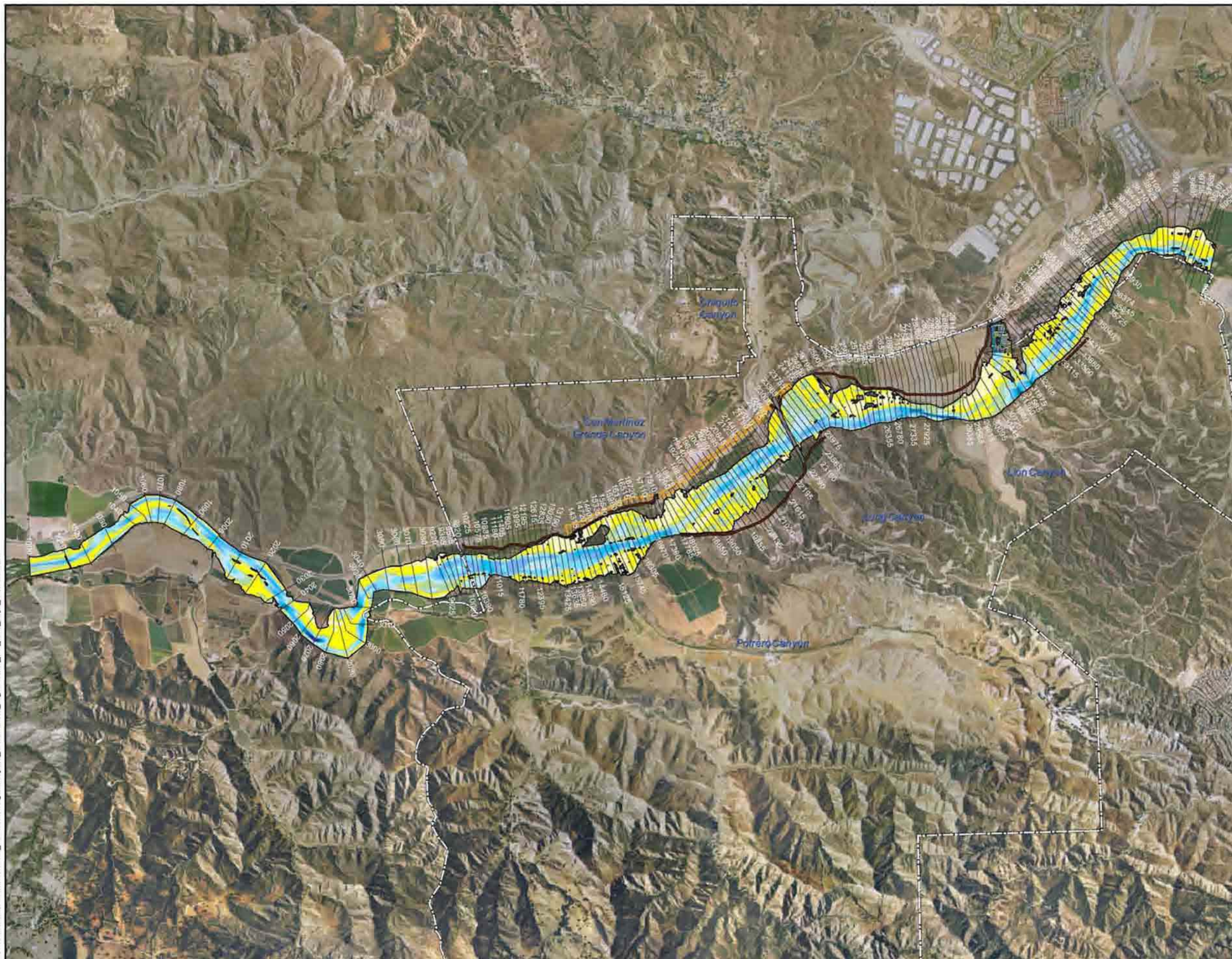


Figure 5.6e

ALTERNATIVE 7 (Avoidance)
20 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

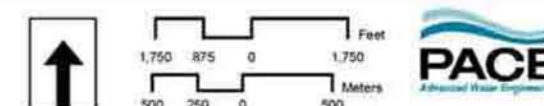
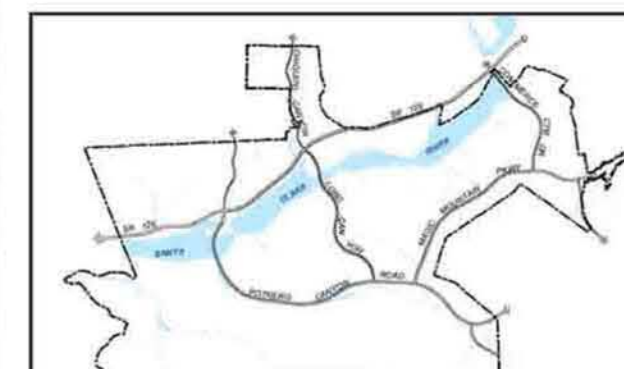
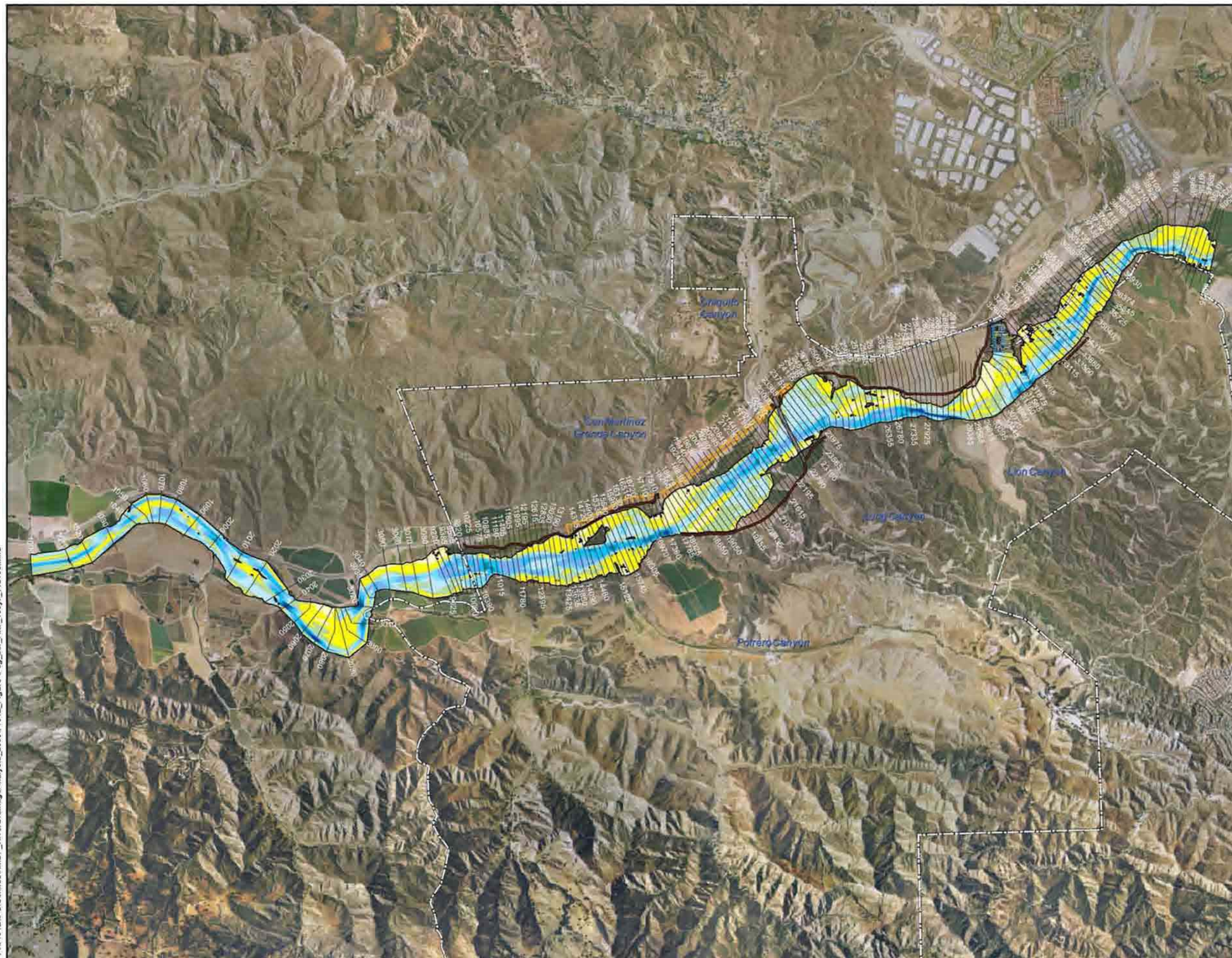


Figure 5.6f

ALTERNATIVE 7 (Avoidance)
50 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND
A LENNAR/LNR COMPANY

L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

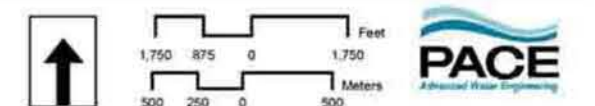
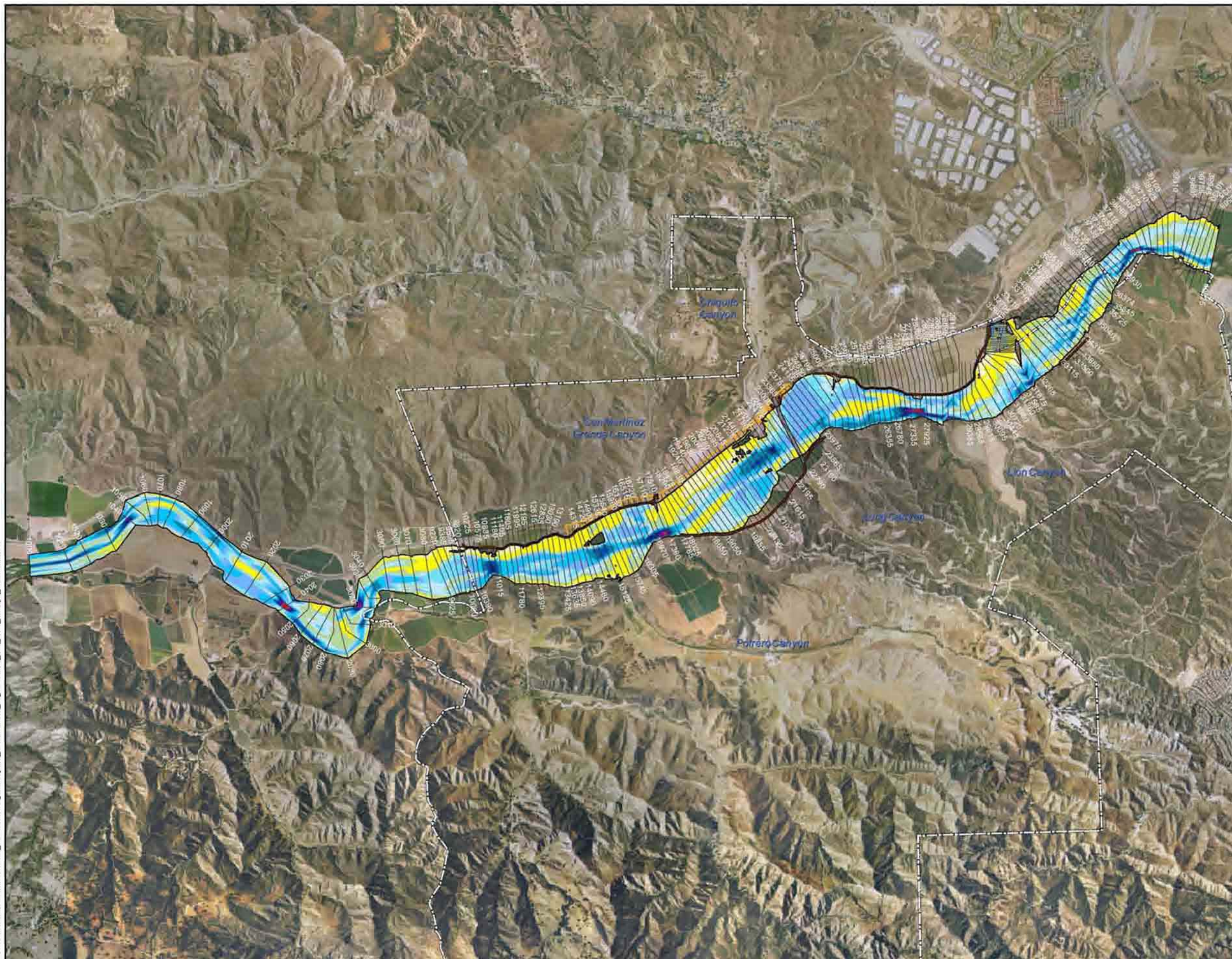


Figure 5.6g
ALTERNATIVE 7 (Avoidance)
100 YEAR FLOOD EVENT VELOCITY
SANTA CLARA RIVER



NEWHALL LAND

A LENNAR/LNR COMPANY

L E G E N D

- Newhall Ranch Specific Plan Boundary
- Bank Stabilization
- Utility Corridor
- Bridge Locations
- Cross Sections

Velocity Profile (fps)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- 15 - 18
- 18 - 21
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 39

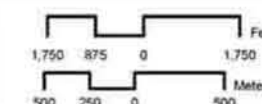
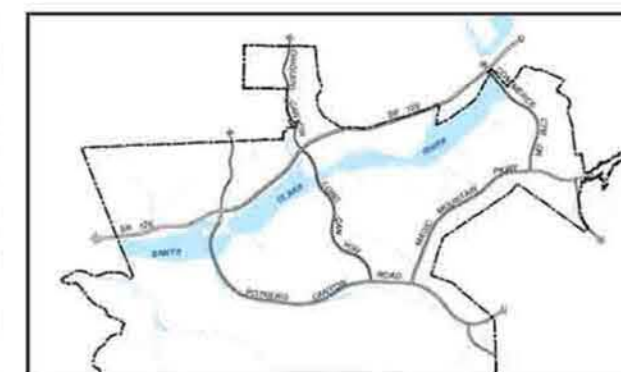


Figure 5.6h

ALTERNATIVE 7 (Avoidance)
CAPITAL FLOOD EVENT VELOCITY
SANTA CLARA RIVER

FIGURE 5.7a: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 2-YEAR

2-YEAR - Floodplain Area by Velocity Distribution																
Velocity	Alternative 1	Alternative 2			Alternative 3&4									Alternative 7		
(fps)	(Existing) Area	(Proposed) Area	Delta	Delta %	Area	Delta	Delta %	Alternative 5 Area	Delta	Delta %	Alternative 6 Area	Delta	Delta %	(Avoidance) Area	Delta	Delta %
	(AC)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)
0-2	128.4	129.6	1.2	0.9%	128.7	0.3	0.2%	129.1	0.7	0.5%	129.5	1.1	0.9%	130.0	1.6	1.2%
2-4	150.2	150.4	0.2	0.1%	150.5	0.2	0.1%	150.9	0.6	0.4%	150.6	0.3	0.2%	149.3	-0.9	-0.6%
4-6	128.6	127.3	-1.2	-0.9%	127.3	-1.2	-0.9%	128.2	-0.4	-0.3%	127.6	-1.0	-0.8%	128.0	-0.6	-0.5%
6-8	33.0	33.2	0.2	0.6%	33.4	0.4	1.2%	32.3	-0.7	-2.1%	32.8	-0.2	-0.6%	33.3	0.3	0.9%
8-10	5.6	5.7	0.1	1.8%	5.6	0.0	0.0%	5.6	0.0	0.0%	5.6	0.0	0.0%	5.5	-0.1	-1.8%
10-12	1.5	1.3	-0.2	-13.6%	1.3	-0.2	-13.6%	1.4	-0.1	-6.8%	1.4	-0.1	-6.8%	1.3	-0.2	-13.6%
12-15	0.3	0.3	0.0	0.0%	0.4	0.1	37.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
15-18	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
18-21	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
21-24	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
24-27	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
	447.6	447.8	0.2	0.0%	447.1	-0.5	-0.1%	447.7	0.1	0.0%	447.7	0.1	0.0%	447.7	0.0	0.0%

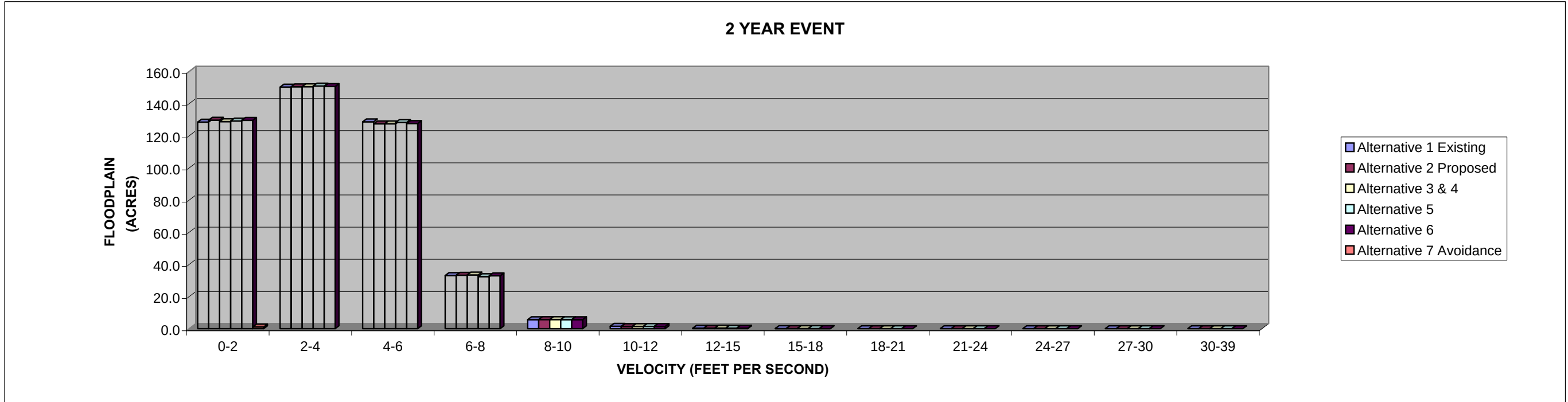


FIGURE 5.7b: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 5-YEAR

5-YEAR - Floodplain Area by Velocity Distribution																
Velocity (fps)	Alternative 1 (Existing) Area (AC)	Alternative 2 (Proposed) Area (AC)	Delta (AC)	Delta % (%)	Alternative 3&4 Area (AC)	Delta (AC)	Delta % (%)	Alternative 5 Area (AC)	Delta (AC)	Delta % (%)	Alternative 6 Area (AC)	Delta (AC)	Delta % (%)	Alternative 7 (Avoidance) Area (AC)	Delta (AC)	Delta % (%)
0-2	118.5	119.4	0.9	0.8%	119.2	0.7	0.6%	118.4	-0.1	-0.1%	119.7	1.2	1.0%	119.4	0.9	0.8%
2-4	156.0	155.6	-0.4	-0.3%	156.0	-0.1	-0.1%	156.3	0.2	0.1%	156.2	0.2	0.1%	156.8	0.8	0.5%
4-6	131.0	131.6	0.6	0.5%	130.8	-0.2	-0.2%	131.1	0.2	0.2%	131.0	0.0	0.0%	129.9	-1.1	-0.8%
6-8	128.2	128.8	0.6	0.5%	127.5	-0.7	-0.5%	127.5	-0.7	-0.5%	128.3	0.0	0.0%	128.3	0.1	0.1%
8-10	49.2	48.3	-0.9	-1.8%	49.2	0.0	0.0%	49.9	0.8	1.6%	48.5	-0.7	-1.4%	49.2	0.0	0.0%
10-12	11.8	12.0	0.2	1.7%	12.4	0.6	5.1%	11.3	-0.5	-4.2%	12.2	0.4	3.4%	12.0	0.2	1.7%
12-15	3.4	3.5	0.1	2.9%	3.6	0.2	5.9%	3.5	0.1	2.9%	3.5	0.1	2.9%	3.3	-0.1	-2.9%
15-18	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
18-21	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
21-24	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
24-27	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
	598.4	599.5	1.2	0.2%	598.9	0.6	0.1%	598.4	0.0	0.0%	599.6	1.3	0.2%	599.2	0.9	0.2%

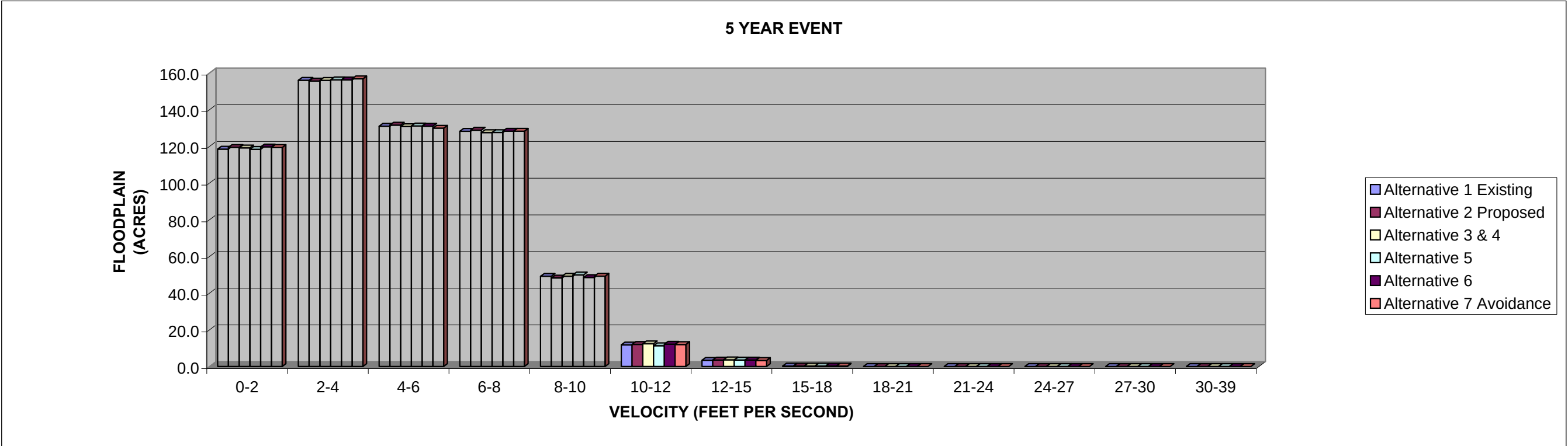


FIGURE 5.7c: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 10-YEAR

10 YEAR - Floodplain Area by Velocity Distribution																
Velocity	Alternative 1	Alternative 2			Alternative 3&4									Alternative 7		
(fps)	(Existing) Area	(Proposed) Area	Delta	Delta %	Area	Delta	Delta %	Alternative 5 Area	Delta	Delta %	Alternative 6 Area	Delta	Delta %	(Avoidance) Area	Delta	Delta %
	(AC)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)
0-2	133.0	129.3	-3.8	-2.9%	127.9	-5.1	-3.8%	129.4	-3.6	-2.7%	129.8	-3.3	-2.5%	131.7	-1.4	-1.1%
2-4	173.3	174.2	0.9	0.5%	173.1	-0.2	-0.1%	172.6	-0.7	-0.4%	173.3	0.0	0.0%	173.3	0.0	0.0%
4-6	130.6	132.4	1.8	1.4%	129.2	-1.4	-1.1%	128.2	-2.4	-1.8%	128.7	-1.9	-1.5%	130.2	-0.4	-0.3%
6-8	136.0	132.5	-3.4	-2.5%	134.9	-1.1	-0.8%	134.5	-1.5	-1.1%	135.7	-0.3	-0.2%	135.3	-0.6	-0.4%
8-10	99.8	101.0	1.2	1.2%	101.7	1.9	1.9%	101.7	1.9	1.9%	100.7	0.9	0.9%	100.5	0.7	0.7%
10-12	35.0	36.0	1.0	2.9%	35.7	0.7	2.0%	36.4	1.4	4.0%	35.0	0.0	0.0%	35.1	0.1	0.3%
12-15	9.9	9.2	-0.7	-7.1%	10.1	0.2	2.0%	9.2	-0.7	-7.1%	9.7	-0.2	-2.0%	9.8	-0.1	-1.0%
15-18	2.3	2.3	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%
18-21	0.2	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.2	0.0	0.0%
21-24	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
24-27	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
	720.1	717.1	-3.0	-0.4%	715.2	-4.9	-0.7%	714.4	714.4	99.2%	715.3	714.3	99.2%	718.3	717.3	99.6%

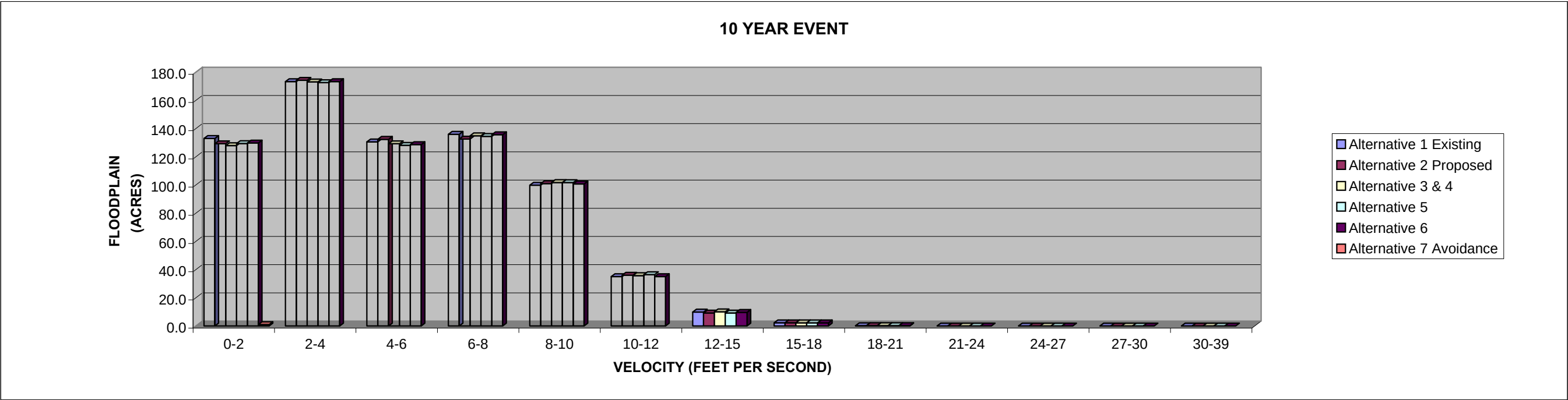


FIGURE 5.7d: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 20-YEAR

20 YEAR - Floodplain Area by Velocity Distribution																
Velocity	Alternative 1	Alternative 2			Alternative 3&4									Alternative 7		
(fps)	(Existing) Area	(Proposed) Area	Delta	Delta %	Area	Delta	Delta %	Alternative 5 Area	Delta	Delta %	Alternative 6 Area	Delta	Delta %	(Avoidance) Area	Delta	Delta %
(AC)	(AC)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)
0-2	209.0	185.3	-23.7	-11.3%	185.4	-23.6	-11.3%	181.3	-27.7	-13.3%	183.0	-26.1	-12.5%	205.5	-3.5	-1.7%
2-4	273.3	230.1	-43.2	-15.8%	233.8	-39.5	-14.5%	229.8	-43.4	-15.9%	234.9	-38.4	-14.1%	265.8	-7.4	-2.7%
4-6	161.7	156.6	-5.1	-3.2%	156.9	-4.8	-3.0%	149.5	-12.3	-7.6%	151.1	-10.6	-6.6%	162.1	0.3	0.2%
6-8	135.0	135.5	0.5	0.4%	134.0	-1.0	-0.7%	131.8	-3.2	-2.4%	133.1	-1.9	-1.4%	135.6	0.6	0.4%
8-10	128.5	126.6	-1.9	-1.5%	124.9	-3.5	-2.7%	124.9	-3.6	-2.8%	126.4	-2.0	-1.6%	127.9	-0.6	-0.5%
10-12	64.6	65.8	1.2	1.9%	68.6	4.0	6.2%	65.5	0.9	1.4%	64.7	0.1	0.2%	64.5	-0.2	-0.3%
12-15	23.1	25.0	1.9	8.2%	26.4	3.3	14.3%	25.2	2.1	9.1%	24.6	1.5	6.5%	23.4	0.3	1.3%
15-18	2.4	2.5	0.1	4.1%	2.6	0.2	8.3%	2.5	0.1	4.1%	2.7	0.3	12.4%	2.4	0.0	0.0%
18-21	1.0	0.8	-0.2	-19.8%	0.8	-0.2	-19.8%	0.8	-0.2	-19.8%	0.8	-0.2	-19.8%	1.0	0.0	0.0%
21-24	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
24-27	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
	999.0	928.6	-70.4	-7.0%	933.8	-65.1	-6.5%	911.7	-87.3	-8.7%	921.6	-77.4	-7.7%	988.4	-10.5	-1.1%

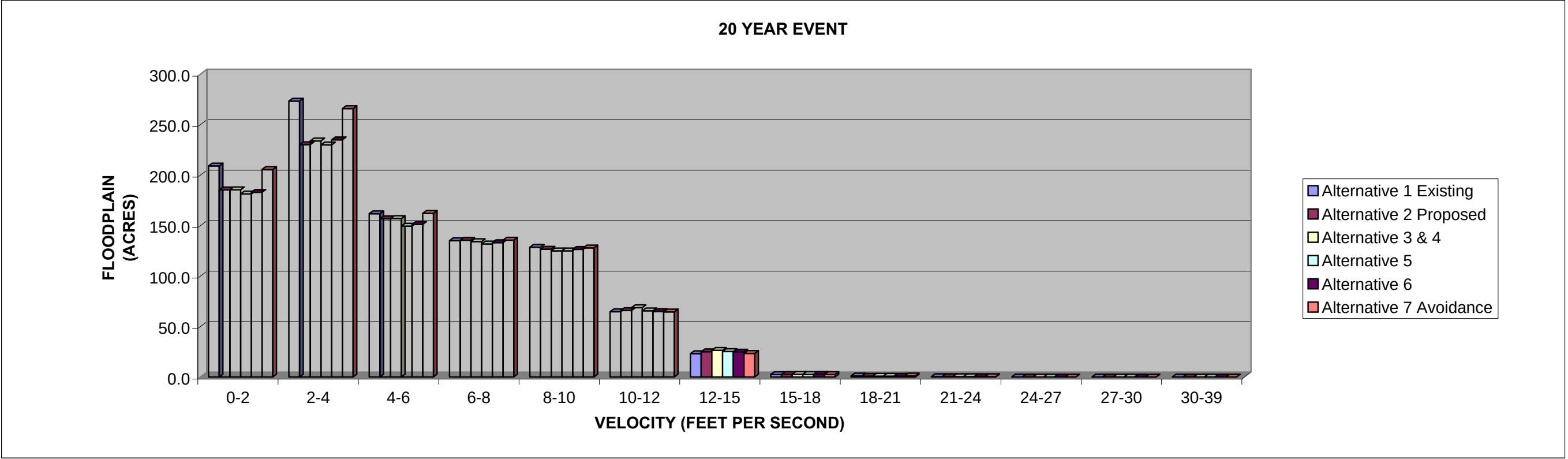


FIGURE 5.7e: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 50-YEAR

50 YEAR - Floodplain Area by Velocity Distribution																
Velocity (fps)	Alternative 1 (Existing) Area (AC)	Alternative 2 (Proposed) Area (AC)	Delta (AC)	Delta % (%)	Alternative 3&4 Area (AC)	Delta (AC)	Delta % (%)	Alternative 5 Area (AC)	Delta (AC)	Delta % (%)	Alternative 6 Area (AC)	Delta (AC)	Delta % (%)	Alternative 7 (Avoidance) Area (AC)	Delta (AC)	Delta % (%)
0-2	230.8	220.7	-10.1	-4.4%	231.4	0.6	0.3%	228.3	-2.5	-1.1%	224.4	-6.3	-2.7%	228.6	-2.2	-1.0%
2-4	340.0	293.7	-46.3	-13.6%	294.3	-45.8	-13.5%	293.8	-46.2	-13.6%	297.0	-43.0	-12.6%	345.2	5.1	1.5%
4-6	253.6	188.4	-65.2	-25.7%	188.1	-65.5	-25.8%	191.0	-62.6	-24.7%	190.9	-62.7	-24.7%	248.2	-5.4	-2.1%
6-8	155.9	159.0	3.1	2.0%	161.2	5.4	3.5%	160.0	4.1	2.6%	159.6	3.7	2.4%	155.2	-0.7	-0.4%
8-10	136.5	143.7	7.2	5.3%	146.9	10.4	7.6%	146.1	9.6	7.0%	146.0	9.5	7.0%	137.2	0.7	0.5%
10-12	105.6	95.9	-9.7	-9.2%	94.5	-11.1	-10.5%	95.6	-10.0	-9.5%	96.5	-9.1	-8.6%	104.8	-0.8	-0.8%
12-15	58.6	49.7	-8.9	-15.2%	52.2	-6.4	-10.9%	47.2	-11.4	-19.5%	47.1	-11.5	-19.6%	57.6	-1.1	-1.9%
15-18	10.6	8.7	-1.9	-18.0%	9.2	-1.4	-13.3%	7.5	-3.1	-29.4%	8.8	-1.8	-17.0%	10.7	0.2	1.9%
18-21	1.7	1.2	-0.4	-23.8%	1.2	-0.5	-29.8%	1.2	-0.5	-29.8%	1.2	-0.5	-29.8%	1.7	0.0	0.0%
21-24	0.7	0.5	-0.2	-28.2%	0.5	-0.2	-28.2%	0.5	-0.2	-28.2%	0.5	-0.2	-28.2%	0.7	0.0	0.0%
24-27	0.2	0.2	-0.1	-41.7%	0.2	-0.1	-41.7%	0.2	0.0	0.0%	0.2	-0.1	-41.7%	0.2	0.0	0.0%
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
	1294.2	1161.7	-132.5	-10.2%	1179.7	-114.5	-8.8%	1171.4	1171.5	90.5%	1172.2	1171.3	90.5%	1290.0	1289.1	99.6%

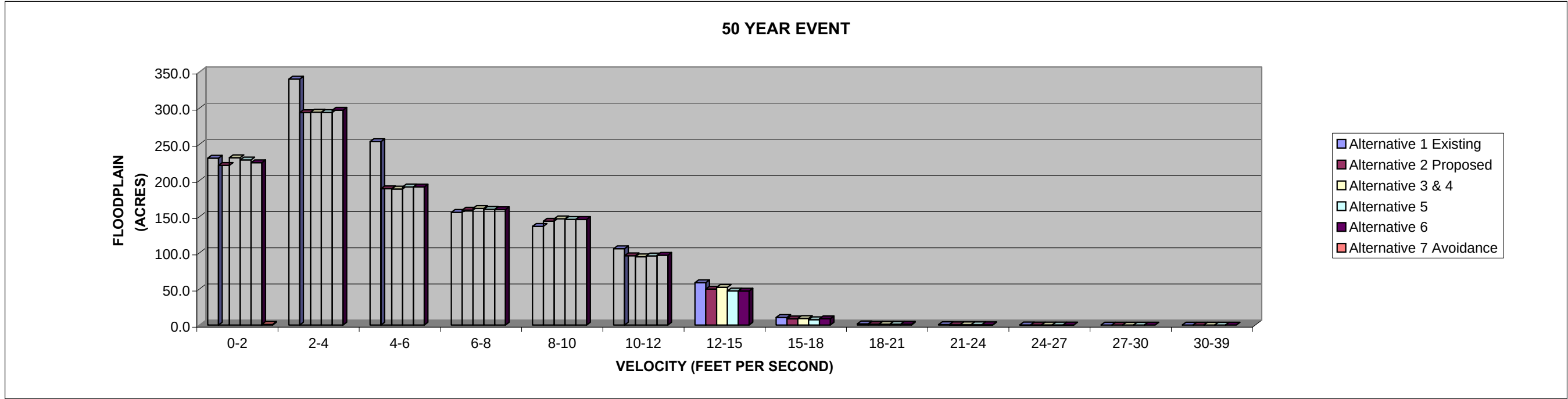


FIGURE 5.7f: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, 100-YEAR

100 YEAR - Floodplain Area by Velocity Distribution																	
Velocity	Alternative 1	Alternative 2			Alternative 3&4									Alternative 7			
(fps)	(Existing) Area	(Proposed) Area	Delta	Delta %	Area	Delta	Delta %	Alternative 5 Area	Delta	Delta %	Alternative 6 Area	Delta	Delta %	(Avoidance) Area	Delta	Delta %	
	(AC)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	
0-2	171.2	192.7	21.5	12.6%	199.6	28.4	16.6%	166.1	-5.1	-3.0%	176.1	4.9	2.9%	169.7	-1.6	-0.9%	
2-4	340.0	323.2	-16.8	-4.9%	326.0	-13.9	-4.1%	309.3	-30.7	-9.0%	311.2	-28.8	-8.5%	341.0	1.0	0.3%	
4-6	281.7	219.1	-62.6	-22.2%	215.8	-66.0	-23.4%	216.2	-65.6	-23.3%	217.1	-64.6	-22.9%	280.2	-1.5	-0.5%	
6-8	222.6	171.9	-50.7	-22.8%	174.0	-48.7	-21.9%	162.8	-59.8	-26.9%	168.9	-53.7	-24.1%	218.9	-3.7	-1.7%	
8-10	135.8	164.9	29.2	21.5%	167.7	31.9	23.5%	160.7	24.9	18.3%	162.3	26.6	19.6%	134.1	-1.6	-1.2%	
10-12	128.0	111.2	-16.9	-13.2%	114.0	-14.1	-11.0%	125.6	-2.4	-1.9%	120.4	-7.6	-5.9%	131.2	3.2	2.5%	
12-15	93.9	73.2	-20.6	-21.9%	72.0	-21.9	-23.3%	79.1	-14.8	-15.8%	79.0	-14.9	-15.9%	94.3	0.5	0.5%	
15-18	26.5	21.5	-5.0	-18.9%	22.9	-3.6	-13.6%	24.1	-2.3	-8.7%	23.2	-3.3	-12.5%	24.9	-1.6	-6.0%	
18-21	6.4	4.7	-1.7	-26.4%	4.8	-1.7	-26.4%	5.5	-0.9	-14.0%	5.5	-1.0	-15.6%	6.3	-0.2	-3.1%	
21-24	1.3	1.2	0.0	0.0%	1.2	-0.1	-7.9%	1.1	-0.2	-15.7%	1.1	-0.2	-15.7%	1.3	0.0	0.0%	
24-27	0.3	0.2	-0.1	-37.0%	0.2	-0.1	-37.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	
27-30	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.1	0.1	0.0%	0.1	0.1	0.0%	0.0	0.0	0.0%	
30-39	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	
	1407.6	1283.8	-123.8	-8.8%	1298.0	-109.6	-7.8%	1250.9	-156.8	-11.1%	1265.3	-142.4	-10.1%	1402.2	-5.5	-0.4%	

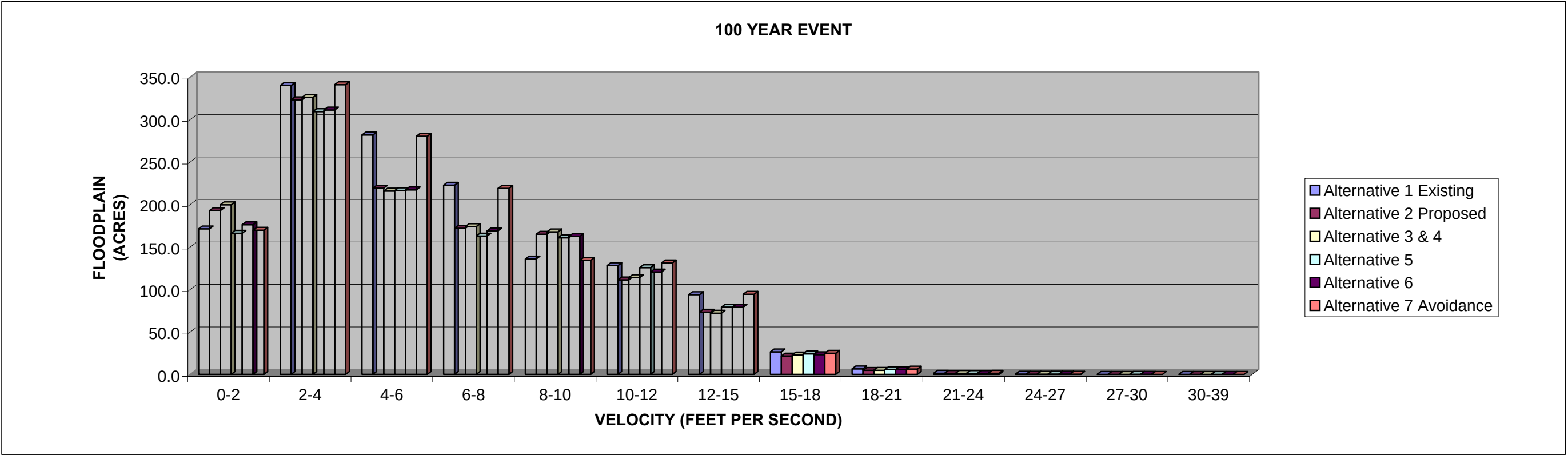


FIGURE 5.7g: FLOODPLAIN AREA BY VELOCITY DISTRIBUTION, QCAP

QCAP - Floodplain Area by Velocity Distribution																
Velocity	Alternative 1	Alternative 2			Alternative 3&4									Alternative 7		
(fps)	(Existing) Area	(Proposed) Area	Delta	Delta %	Area	Delta	Delta %	Alternative 5 Area	Delta	Delta %	Alternative 6 Area	Delta	Delta %	(Avoidance) Area	Delta	Delta %
	(AC)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)	(AC)	(AC)	(%)
0-2	116.7	104.4	-12.3	-10.5%	109.2	-7.5	-6.4%	105.3	-11.5	-9.9%	105.2	-11.6	-9.9%	112.4	-4.3	-3.7%
2-4	287.0	253.5	-33.5	-11.7%	266.3	-20.8	-7.2%	253.9	-33.1	-11.5%	246.9	-40.2	-14.0%	277.8	-9.3	-3.2%
4-6	305.1	270.6	-34.5	-11.3%	274.4	-30.6	-10.0%	273.4	-31.7	-10.4%	276.5	-28.6	-9.4%	294.2	-10.8	-3.5%
6-8	247.6	203.3	-44.3	-17.9%	201.2	-46.4	-18.7%	199.2	-48.4	-19.6%	200.4	-47.2	-19.1%	243.2	-4.3	-1.7%
8-10	211.6	137.4	-74.2	-35.1%	141.9	-69.7	-32.9%	140.4	-71.1	-33.6%	138.9	-72.6	-34.3%	203.0	-8.5	-4.0%
10-12	199.2	131.8	-67.4	-33.8%	141.6	-57.6	-28.9%	129.2	-70.0	-35.1%	129.0	-70.2	-35.2%	208.0	8.8	4.4%
12-15	173.2	193.4	20.3	11.7%	194.2	21.1	12.2%	194.2	21.0	12.1%	197.5	24.3	14.0%	170.7	-2.5	-1.4%
15-18	78.5	89.1	10.5	13.4%	87.1	8.5	10.8%	91.4	12.9	16.4%	93.4	14.9	19.0%	78.4	-0.1	-0.1%
18-21	34.5	42.8	8.3	24.1%	39.8	5.3	15.4%	41.5	7.1	20.6%	42.1	7.6	22.0%	33.9	-0.6	-1.7%
21-24	14.1	14.6	0.5	3.6%	14.5	0.5	3.6%	15.4	1.4	10.0%	15.5	1.5	10.7%	14.4	0.3	2.1%
24-27	4.3	4.0	-0.3	-7.0%	4.2	-0.1	-2.3%	4.2	-0.1	-2.3%	4.2	-0.1	-2.3%	4.6	0.4	9.3%
27-30	2.2	2.1	-0.1	-4.5%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%
30-39	1.1	0.8	-0.4	-36.0%	0.7	-0.4	-36.0%	0.8	-0.3	-27.0%	0.8	-0.3	-27.0%	1.1	0.0	0.0%
	1675.0	1447.7	-227.3	-13.6%	1477.4	-197.6	-11.8%	1451.1	-223.9	-13.4%	1452.4	-222.6	-13.3%	1643.9	-31.1	-1.9%

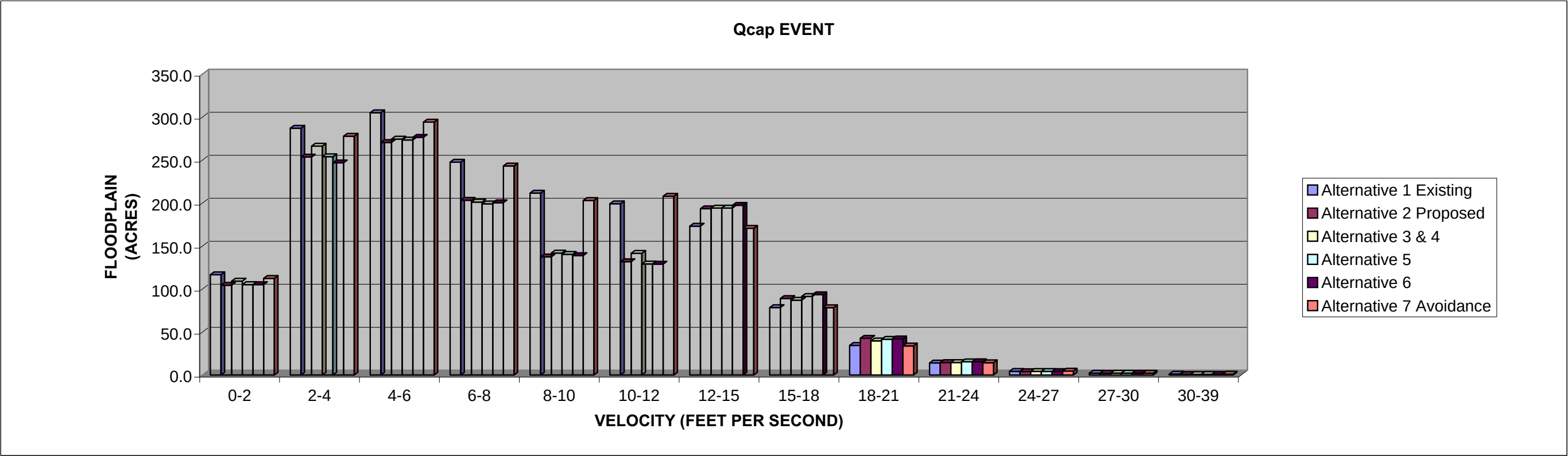


FIGURE 6.1a: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 2-YEAR

2 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.4	-0.1	-20.0%	0.5	0.0	0.0%	0.3	-0.2	-40.0%
AS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-PS	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	-0.1	-50.0%
dCSB	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	1.2	1.2	0.0	0.0%	1.2	0.0	0.0%	1.1	-0.1	-8.3%	1.1	-0.1	-8.3%	1.1	-0.1	-8.3%
dRS	0.6	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%
dSCWRF	0.0	0.1	0.1	0.0%	0.1	0.1	0.0%	0.1	0.1	0.0%	0.0	0.0	0.0%	0.1	0.1	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	-0.1	-20.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
HW	97.0	96.3	-0.7	-0.7%	96.6	-0.4	-0.4%	96.0	-1.0	-1.0%	96.1	-0.9	-0.9%	96.9	-0.1	-0.1%
MFS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	55.6	55.5	-0.1	-0.2%	55.6	0.0	0.0%	56.0	0.4	0.7%	55.7	0.1	0.2%	55.5	-0.1	-0.2%
SCLORF	0.2	0.1	-0.1	-50.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	12.4	12.1	-0.3	-2.4%	11.9	-0.5	-4.0%	12.0	-0.4	-3.2%	12.0	-0.4	-3.2%	12.2	-0.2	-1.6%
SWS	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
TAM	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
VOW	0.6	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%
Not Coded	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
< 4fps	278.6	280.0	-1.1	-53.3%	279.1	-1.0	-4.4%	280.0	-1.3	-51.9%	280.0	-1.3	-12.3%	279.3	-0.6	-100.2%
TOTAL	447.6	447.9	-1.1	-0.2%	447.2	-1.0	-0.2%	447.7	-1.3	-0.3%	447.7	-1.3	-0.3%	447.7	-0.6	-0.1%

AGR

Agriculture

AS

Alluvial Scrub

AWS

Arrow weed scrub

BSS

Big Sagebrush Scrub

CGL

California Annual Grassland

CHP

Undifferentiated Chaparral

CLOW

Coast Live Oak Woodland

CSB

California Sagebrush Scrub

CSB-CB

California Sagebrush Scrub - California Buckwheat

CSB-CHP

California Sagebrush Scrub/Undifferentiated Chapparral

CSB-PS

California Sagebrush Scrub - Purple Sage

dCSB

Disturbed California Sagebruch Scrub

DEV

Developed

DL

Disturbed Land

dRS

Disturbed Riparian Scrub

dSCWRF

Disturbed Southern Cottonwood-Willow Riparian Forest

dSWS

Disturbed Southern Willow Scrub

GRG

Giant Reed Grassland

HW

Herbaceous Wetlands

MFS

Mulefat Scrub

OC

Open Channel

ORN

Ornamental

RW

River Wash

SCLORF

Southern Coast Live Oak Riparian Forest

SCWRF

Southern Cottonwood/Willow Riparian Forest

SWS

Southern Willow Scrub

TAM

Shrub tamarisk

VOW

Valley Oak Woodland

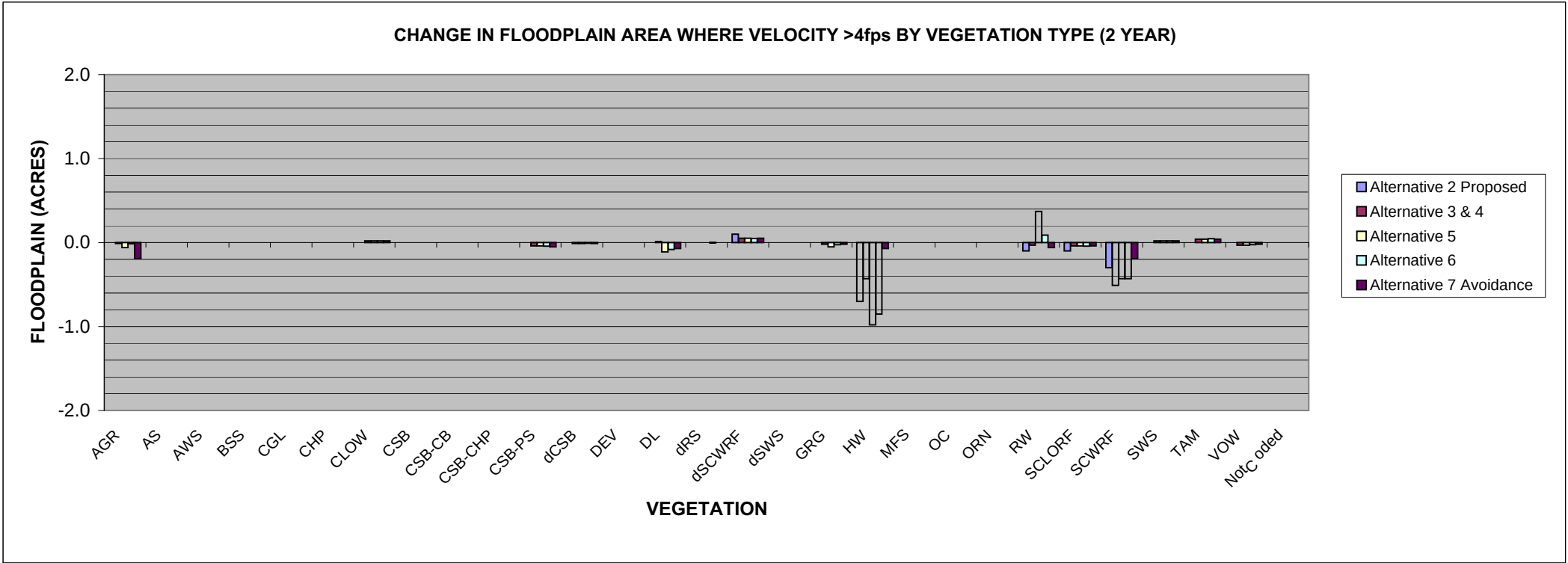


FIGURE 6.1b: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 5-YEAR

5 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	0.8	0.7	-0.1	-12.5%	0.7	-0.1	-12.5%	0.7	-0.1	-12.5%	0.7	-0.1	0.0%	0.6	-0.2	-25.0%
AS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-PS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
dCSB	0.7	0.7	0.0	0.0%	0.7	0.0	0.0%	0.7	0.0	0.0%	0.7	0.0	0.0%	0.7	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	2.3	2.4	0.1	4.3%	2.3	0.0	0.0%	2.4	0.1	4.3%	2.4	0.1	0.0%	2.3	0.0	0.0%
dRS	1.2	1.3	0.1	8.3%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%
dSCWRF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	1.8	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%
HW	181.8	181.9	0.1	0.1%	181.9	0.1	0.1%	181.9	0.1	0.1%	182.1	0.3	0.0%	181.6	-0.2	-0.1%
MFS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	100.8	101.0	0.2	0.2%	100.6	-0.2	-0.2%	100.5	-0.3	-0.3%	100.4	-0.4	0.0%	100.4	-0.4	-0.4%
SCLORF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	31.2	31.3	0.1	0.3%	31.2	0.0	0.0%	31.2	0.0	0.0%	31.1	-0.1	0.0%	31.1	-0.1	-0.3%
SWS	0.9	0.9	0.0	0.0%	0.9	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	0.9	0.0	0.0%
TAM	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
VOW	1.1	1.2	0.1	9.1%	1.1	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.1	0.0	0.0%
Not Coded	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
<4 FPS	274.5	275.0	0.5	0.2%	275.1	0.6	0.2%	274.6	0.1	0.0%	275.9	1.4	0.0%	275.9	1.4	0.5%
TOTAL	598.4	599.5	1.1	0.2%	598.8	0.4	0.1%	598.3	-0.1	0.0%	599.6	1.2	0.2%	598.9	0.5	0.1%

AGR	Agriculture
AS	Alluvial Scrub
AWS	Arrow weed scrub
BSS	Big Sagebrush Scrub
CGL	California Annual Grassland
CHP	Undifferentiated Chaparral
CLOW	Coast Live Oak Woodland
CSB	California Sagebrush Scrub
CSB-CB	California Sagebrush Scrub - California Buckwheat
CSB-CHP	California Sagebrush Scrub/Undifferentiated Chapparral
CSB-PS	California Sagebrush Scrub - Purple Sage
dCSB	Disturbed California Sagebruch Scrub
DEV	Developed
DL	Disturbed Land
dRS	Disturbed Riparian Scrub
dSCWRF	Disturbed Southern Cottonwood-Willow Riparian Forest
dSWS	Disturbed Southern Willow Scrub
GRG	Giant Reed Grassland
HW	Herbaceous Wetlands
MFS	Mulefat Scrub
OC	Open Channel
ORN	Ornamental
RW	River Wash
SCLORF	Southern Coast Live Oak Riparian Forest
SCWRF	Southern Cottonwood/Willow Riparian Forest
SWS	Southern Willow Scrub
TAM	Shrub tamarisk
VOW	Valley Oak Woodland

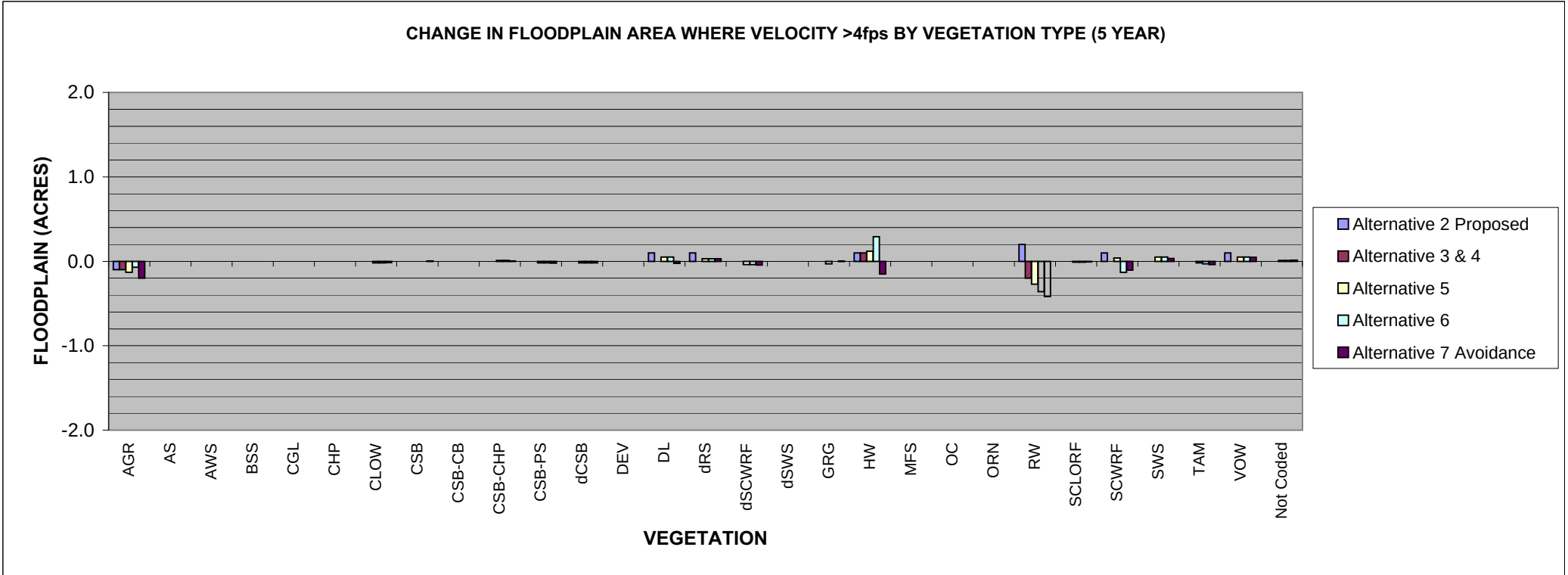


FIGURE 6.1c: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 10-YEAR

10 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	4.0	4.1	0.1	2.5%	3.4	-0.6	-14.9%	3.4	-0.6	-14.9%	3.4	-0.6	-14.9%	3.3	-0.8	-19.9%
AS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.2	0.2	0.1	66.7%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.1	66.7%	0.2	0.0	0.0%
CSB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-PS	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
dCSB	0.9	0.9	0.0	0.0%	0.9	0.0	0.0%	0.9	0.0	0.0%	0.9	0.0	0.0%	0.9	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	3.4	3.5	0.1	3.0%	3.4	0.0	0.0%	3.4	0.0	0.0%	3.5	0.1	3.0%	3.4	0.0	0.0%
dRS	1.3	1.3	0.0	0.0%	1.3	0.0	0.0%	1.3	0.0	0.0%	1.3	0.0	0.0%	1.3	0.0	0.0%
dSCWRF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	2.4	2.4	0.0	0.0%	2.4	0.0	0.0%	2.4	0.0	0.0%	2.4	0.0	0.0%	2.4	0.0	0.0%
HW	228.5	227.8	-0.7	-0.3%	228.6	0.1	0.0%	228.2	-0.4	-0.2%	228.2	-0.3	-0.1%	228.4	-0.1	0.0%
MFS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	120.8	121.1	0.3	0.2%	121.4	0.6	0.5%	120.8	0.0	0.0%	120.6	-0.2	-0.2%	121.2	0.3	0.2%
SCLORF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	47.0	47.3	0.3	0.6%	47.5	0.5	1.1%	46.9	-0.1	-0.2%	46.8	-0.2	-0.4%	47.1	0.2	0.4%
SWS	2.0	1.7	-0.3	-14.9%	1.7	-0.3	-14.9%	1.7	-0.3	-14.9%	1.7	-0.3	-14.9%	2.0	0.0	0.0%
TAM	1.0	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%
VOW	1.4	1.5	0.1	7.1%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%
Not Coded	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
<4 FPS	306.3	303.5	-2.8	-0.9%	301.0	-5.3	-1.7%	302.0	-4.3	-1.4%	303.1	-3.3	-1.1%	305.0	-1.4	-0.5%
TOTAL	720.1	717.1	-3.0	-0.4%	715.2	-4.9	-0.7%	714.4	-1.3	-0.2%	715.3	-1.5	-0.2%	718.3	-1.7	-0.2%

AGR	Agriculture
AS	Alluvial Scrub
AWS	Arrow weed scrub
BSS	Big Sagebrush Scrub
CGL	California Annual Grassland
CHP	Undifferentiated Chaparral
CLOW	Coast Live Oak Woodland
CSB	California Sagebrush Scrub
CSB-CB	California Sagebrush Scrub - California Buckwheat
CSB-CHP	California Sagebrush Scrub/Undifferentiated Chapparral
CSB-PS	California Sagebrush Scrub - Purple Sage
dCSB	Disturbed California Sagebruch Scrub
DEV	Developed
DL	Disturbed Land
dRS	Disturbed Riparian Scrub
dSCWRF	Disturbed Southern Cottonwood-Willow Riparian Forest
dSWS	Disturbed Southern Willow Scrub
GRG	Giant Reed Grassland
HW	Herbaceous Wetlands
MFS	Mulefat Scrub
OC	Open Channel
ORN	Ornamental
RW	River Wash
SCLORF	Southern Coast Live Oak Riparian Forest
SCWRF	Southern Cottonwood/Willow Riparian Forest
SWS	Southern Willow Scrub
TAM	Shrub tamarisk
VOW	Valley Oak Woodland

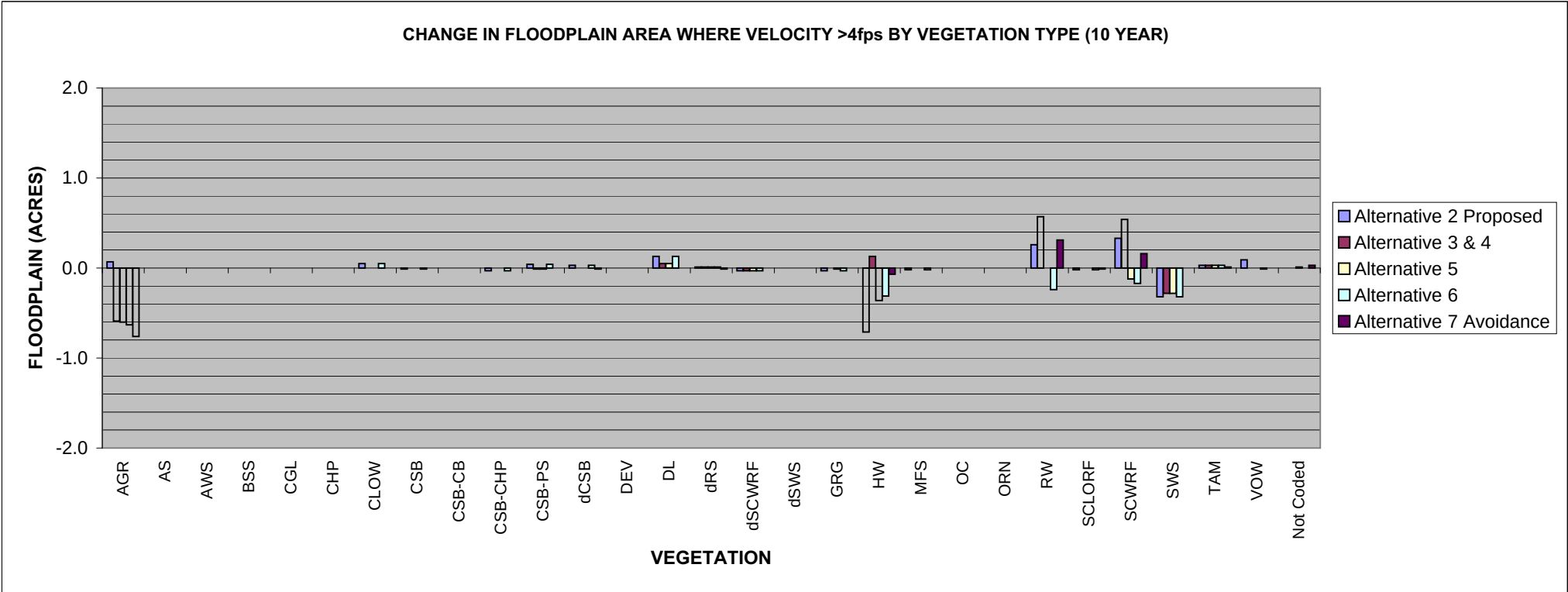


FIGURE 6.1d: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 20-YEAR

20 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	24.1	19.4	-4.7	-19.5%	21.7	-2.4	-10.0%	13.3	-10.7	-44.5%	14.6	-9.5	-39.5%	23.8	-0.3	-1.2%
AS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.1	0.1	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	1.0	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.0	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB-PS	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.5	0.0	0.0%
dCSB	1.2	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	5.0	4.8	-0.2	-4.0%	4.6	-0.4	-7.9%	4.8	-0.3	-6.0%	4.8	-0.2	-4.0%	5.0	0.0	0.0%
dRS	2.9	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%
dSCWRF	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	2.5	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
HW	263.1	264.6	1.5	0.6%	264.0	0.9	0.3%	261.8	-1.3	-0.5%	262.2	-0.9	-0.3%	263.2	0.2	0.1%
MFS	1.0	0.6	-0.4	-40.0%	0.6	-0.4	-40.0%	0.6	-0.4	-40.0%	0.5	-0.5	-50.0%	1.0	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	139.9	140.5	0.5	0.4%	140.2	0.3	0.2%	137.9	-2.0	-1.4%	139.4	-0.5	-0.4%	140.3	0.4	0.3%
SCLORF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	69.2	69.1	-0.2	-0.3%	69.4	0.2	0.3%	68.0	-1.2	-1.7%	68.1	-1.1	-1.6%	69.3	0.1	0.1%
SWS	2.9	2.6	-0.2	-7.0%	2.6	-0.3	-10.5%	2.7	-0.2	-7.0%	2.7	-0.2	-7.0%	2.9	0.1	3.5%
TAM	1.1	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%
VOW	1.5	1.6	0.1	6.5%	1.5	0.0	0.0%	1.5	0.0	0.0%	1.5	0.0	0.0%	1.5	0.0	0.0%
Not Coded	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
<4 FPS	482.3	415.4	-66.9	-13.9%	419.2	-63.1	-13.1%	411.1	-71.2	-14.8%	417.9	-64.4	-13.4%	471.4	-10.9	-2.3%
TOTAL	998.9	928.5	-3.5	-0.4%	933.8	-2.0	-0.2%	911.7	-16.1	-1.6%	921.6	-12.9	-1.3%	988.4	0.4	0.0%

AGR	Agriculture
AS	Alluvial Scrub
AWS	Arrow weed scrub
BSS	Big Sagebrush Scrub
CGL	California Annual Grassland
CHP	Undifferentiated Chaparral
CLOW	Coast Live Oak Woodland
CSB	California Sagebrush Scrub
CSB-CB	California Sagebrush Scrub - California Buckwheat
CSB-CHP	California Sagebrush Scrub/Undifferentiated Chapparal
CSB-PS	California Sagebrush Scrub - Purple Sage
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dRS	Disturbed Riparian Scrub
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GRG	Giant Reed Grassland
HW	Herbaceous Wetlands
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OC	Open Channel
ORN	Ornamental
RW	River Wash
SCLORF	Southern Coast Live Oak Riparian Forest
SCWRF	Southern Cottonwood/Willow Riparian Forest
SWS	Southern Willow Scrub
TAM	Shrub tamarisk
VOW	Valley Oak Woodland

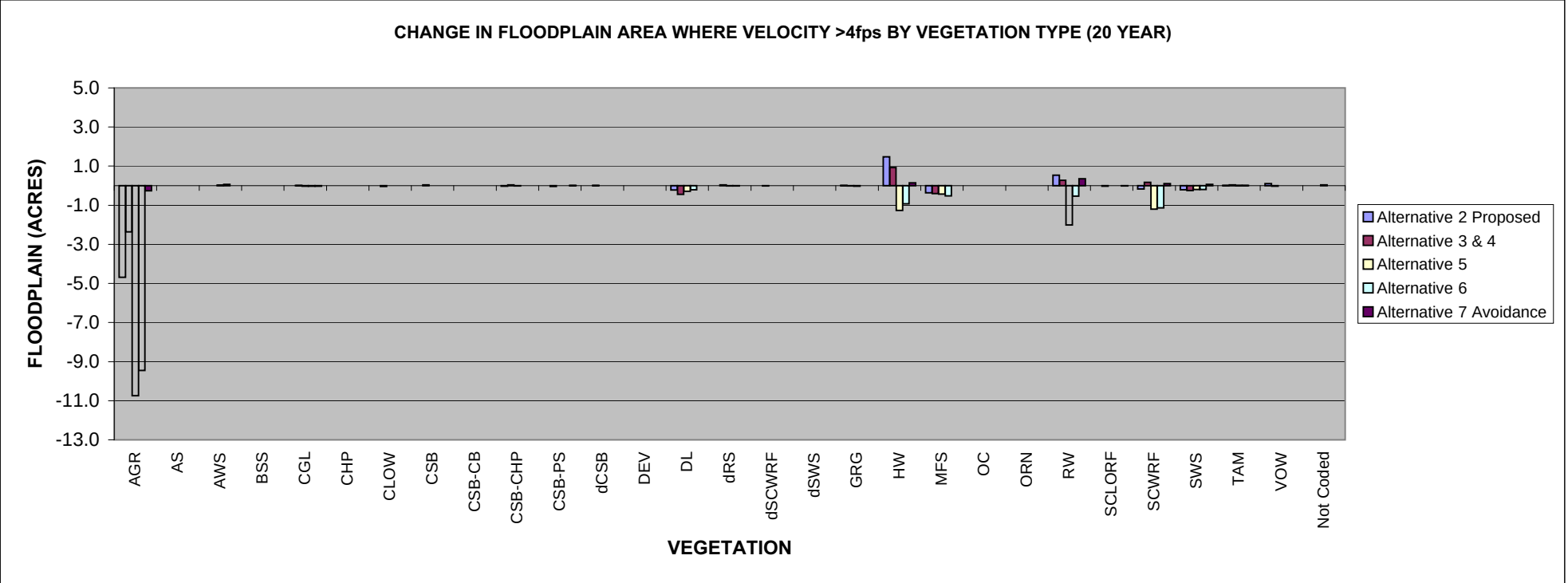


FIGURE 6.1e: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 50-YEAR

50 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	123.3	51.9	-71.4	-57.9%	58.3	-65.0	-52.7%	53.5	-69.9	-56.7%	54.4	-68.9	-55.9%	115.3	-8.0	-6.5%
AS	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
AWS	0.1	0.1	0.0	0.0%	0.2	0.0	0.0%	0.2	0.1	75.2%	0.3	0.2	150.4%	0.1	0.0	0.0%
BSS	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
CGL	3.1	3.4	0.3	9.7%	3.3	0.2	6.4%	2.8	-0.3	-9.7%	2.8	-0.3	-9.7%	3.5	0.4	12.9%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
CSB	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB-PS	0.6	0.6	0.1	17.5%	0.6	0.1	17.5%	0.6	0.1	17.5%	0.6	0.0	0.0%	0.6	0.0	0.0%
dCSB	1.5	1.4	-0.1	-6.5%	1.4	-0.2	-13.0%	1.4	-0.2	-13.0%	1.4	-0.1	-6.5%	1.5	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	12.2	8.5	-3.7	-30.2%	8.8	-3.4	-27.8%	8.7	-3.5	-28.6%	8.9	-3.3	-27.0%	12.2	0.0	0.0%
dRS	3.8	3.6	-0.1	-2.7%	3.7	-0.1	-2.7%	3.6	-0.1	-2.7%	3.6	-0.2	-5.3%	3.8	0.0	0.0%
dSCWRF	0.7	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.1	13.4%	0.7	0.0	0.0%
dSWS	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
GRG	2.6	2.7	0.1	3.8%	2.7	0.0	0.0%	2.7	0.0	0.0%	2.7	0.1	3.8%	2.7	0.1	3.8%
HW	289.9	289.1	-0.8	-0.3%	288.5	-1.4	-0.5%	288.9	-1.0	-0.3%	288.9	-1.0	-0.3%	289.7	-0.2	-0.1%
MFS	2.7	2.1	-0.6	-22.0%	2.5	-0.2	-7.3%	2.2	-0.5	-18.3%	2.3	-0.4	-14.7%	2.8	0.1	3.7%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	169.0	170.0	1.0	0.6%	170.6	1.6	0.9%	169.2	0.2	0.1%	169.6	0.6	0.4%	169.4	0.4	0.2%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.1	40.0%	0.2	-0.1	-40.0%
SCWRF	104.2	104.7	0.5	0.5%	104.6	0.4	0.4%	106.5	2.2	2.1%	106.3	2.1	2.0%	104.5	0.3	0.3%
SWS	5.1	3.8	-1.3	-25.3%	3.9	-1.3	-25.3%	3.9	-1.3	-25.3%	3.9	-1.2	-23.4%	5.1	0.0	0.0%
TAM	1.2	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.1	8.7%	1.1	0.0	0.0%
VOW	1.7	1.8	0.1	5.9%	1.7	0.0	0.0%	1.7	0.0	0.0%	1.7	0.0	0.0%	1.7	0.0	0.0%
Not Coded	0.1	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.1	67.1%	0.2	0.1	67.1%
< 4fps	570.8	514.4	-56.4	-9.9%	525.7	-45.1	-7.9%	522.1	-48.7	-8.5%	521.4	-49.4	-8.7%	573.7	2.9	0.5%
TOTAL	1294.2	1161.7	-76.1	-5.9%	1179.7	-69.4	-5.4%	1171.3	-74.2	-5.7%	1172.4	-72.4	-5.6%	1289.9	-7.2	-0.6%

AGR	Agriculture
AS	Alluvial Scrub
AWS	Arrow weed scrub
BSS	Big Sagebrush Scrub
CGL	California Annual Grassland
CHP	Undifferentiated Chaparral
CLOW	Coast Live Oak Woodland
CSB	California Sagebrush Scrub
CSB-CB	California Sagebrush Scrub - California Buckwheat
CSB-CHP	California Sagebrush Scrub/Undifferentiated Chapparral
CSB-PS	California Sagebrush Scrub - Purple Sage
dCSB	Disturbed California Sagebruch Scrub
DEV	Developed
DL	Disturbed Land
dRS	Disturbed Riparian Scrub
dSCWRF	Disturbed Southern Cottonwood-Willow Riparian Forest
dSWS	Disturbed Southern Willow Scrub
GRG	Giant Reed Grassland
HW	Herbaceous Wetlands
MFS	Mulefat Scrub
OC	Open Channel
ORN	Ornamental
RW	River Wash
SCLORF	Southern Coast Live Oak Riparian Forest
SCWRF	Southern Cottonwood/Willow Riparian Forest
SWS	Southern Willow Scrub
TAM	Shrub tamarisk
VOW	Valley Oak Woodland

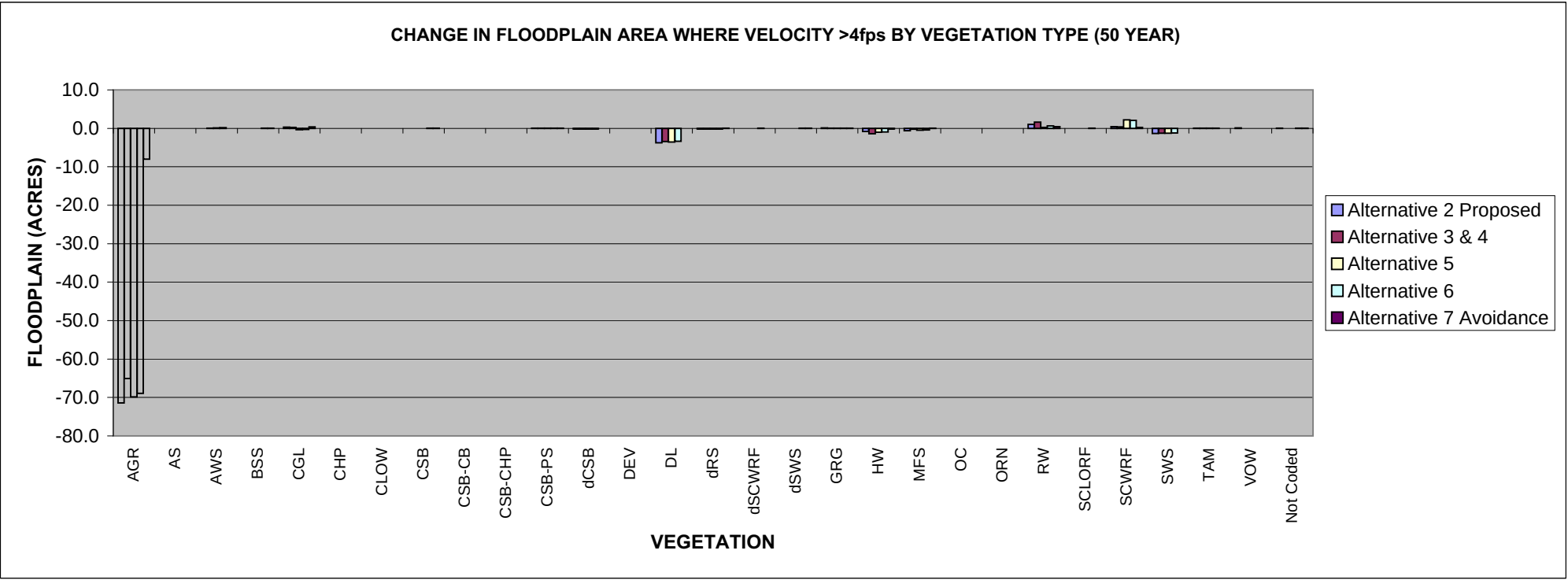


FIGURE 6.1f: CHANGE IN FLOODPLAIN AREA WHERE VEOLICTY > 4fps BY VEGETATION, 100-YEAR

100 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	193.9	82.9	-111.0	-57.2%	87.1	-106.8	-55.1%	82.0	-111.9	-57.7%	82.9	-111.0	-57.2%	188.1	-5.8	-3.0%
AS	0.3	0.3	0.0	0.0%	0.4	0.1	31.3%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
AWS	0.3	0.2	-0.1	-32.3%	0.3	0.0	0.0%	0.4	0.1	32.3%	0.4	0.1	32.3%	0.3	0.0	0.0%
BSS	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
CGL	4.0	4.0	0.0	0.0%	4.1	0.1	2.5%	4.9	0.8	19.8%	4.9	0.8	19.8%	4.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
CSB	0.6	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB-PS	0.8	0.9	0.1	12.0%	0.9	0.1	12.0%	0.9	0.1	12.0%	0.9	0.1	12.0%	0.8	0.0	0.0%
dCSB	1.4	1.4	0.0	0.0%	1.4	0.0	0.0%	1.6	0.2	14.3%	1.6	0.2	14.3%	1.4	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	20.8	12.1	-8.7	-41.8%	12.8	-8.0	-38.4%	12.3	-8.5	-40.8%	12.4	-8.4	-40.3%	19.8	-1.0	-4.8%
dRS	4.9	4.9	0.0	0.0%	4.9	0.0	0.0%	4.9	0.0	0.0%	4.9	0.0	0.0%	4.9	0.0	0.0%
dSCWRF	1.1	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%
dSWS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
GRG	3.1	3.1	0.0	0.0%	3.1	0.0	0.0%	3.0	-0.1	-3.2%	3.0	-0.1	-3.2%	3.1	0.0	0.0%
HW	305.8	304.7	-1.1	-0.4%	304.4	-1.4	-0.5%	305.6	-0.2	-0.1%	305.9	0.1	0.0%	306.4	0.6	0.2%
MFS	5.5	2.9	-2.6	-47.7%	3.6	-1.9	-34.9%	3.3	-2.2	-40.4%	3.2	-2.3	-42.2%	5.5	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	194.5	193.3	-1.2	-0.6%	193.5	-1.0	-0.5%	195.0	0.4	0.2%	195.4	0.9	0.5%	195.3	0.8	0.4%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	147.4	145.1	-2.3	-1.6%	144.0	-3.4	-2.3%	149.3	1.9	1.3%	150.4	3.0	2.0%	147.6	0.2	0.1%
SWS	6.5	4.8	-1.7	-26.3%	4.7	-1.8	-27.8%	4.9	-1.6	-24.7%	4.6	-1.9	-29.4%	6.7	0.2	3.1%
TAM	1.2	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%	1.2	0.0	0.0%
VOW	1.9	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%
Not Coded	1.3	1.3	0.0	0.0%	1.2	-0.1	-7.8%	1.3	0.0	0.0%	1.3	0.0	0.0%	1.3	0.0	0.0%
< 4fps	511.2	515.9	4.7	0.9%	525.6	14.4	2.8%	475.4	-35.8	-7.0%	487.3	-23.9	-4.7%	510.7	-0.5	-0.1%
TOTAL	896.4	767.9	-128.5	-14.3%	772.4	-124.0	-13.8%	775.5	-121.0	-13.5%	778.0	-118.5	-13.2%	891.5	-4.9	-0.5%

AGR	Agriculture
AS	Alluvial Scrub
AWS	Arrow weed scrub
BSS	Big Sagebrush Scrub
CGL	California Annual Grassland
CHP	Undifferentiated Chaparral
CLOW	Coast Live Oak Woodland
CSB	California Sagebrush Scrub
CSB-CB	California Sagebrush Scrub - California Buckwheat
CSB-CHP	California Sagebrush Scrub/Undifferentiated Chapparal
CSB-PS	California Sagebrush Scrub - Purple Sage
dCSB	Disturbed California Sagebruch Scrub
DEV	Developed
DL	Disturbed Land
dRS	Disturbed Riparian Scrub
dSCWRF	Disturbed Southern Cottonwood-Willow Riparian Forest
dSWS	Disturbed Southern Willow Scrub
GRG	Giant Reed Grassland
HW	Herbaceous Wetlands
MFS	Mulefat Scrub
OC	Open Channel
ORN	Ornamental
RW	River Wash
SCLORF	Southern Coast Live Oak Riparian Forest
SCWRF	Southern Cottonwood/Willow Riparian Forest
SWS	Southern Willow Scrub
TAM	Shrub tamarisk
VOW	Valley Oak Woodland

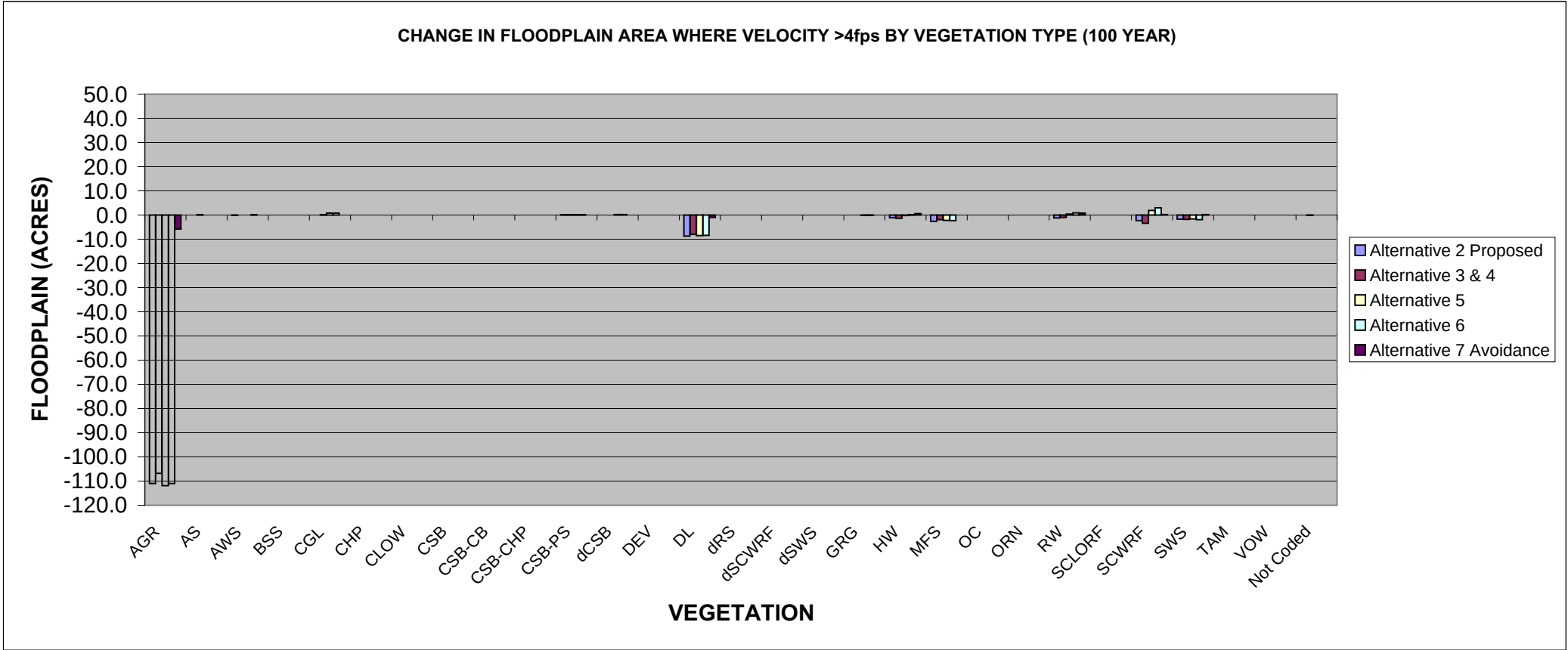


FIGURE 6.1g: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, QCAP

qCAP YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	309.4	150.0	-159.4	-51.5%	160.2	-149.2	-48.2%	152.7	-156.7	-50.6%	153.7	-155.7	-50.3%	292.7	-16.7	-5.4%
AS	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
AWS	2.2	2.6	0.4	18.2%	2.0	-0.2	-9.1%	1.3	-0.9	-40.9%	1.8	-0.4	-18.2%	2.2	0.0	0.0%
BSS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
CGL	13.6	13.5	-0.1	-0.7%	13.5	-0.1	-0.7%	13.6	0.0	0.0%	13.5	-0.1	-0.7%	13.6	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.8	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%
CSB	1.2	1.1	-0.1	-8.3%	1.1	-0.1	-8.3%	1.1	-0.1	-8.3%	1.2	0.0	0.0%	1.2	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.3	0.2	-0.1	-33.3%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
CSB-PS	1.5	1.6	0.1	6.7%	1.7	0.2	13.3%	1.6	0.1	6.7%	1.6	0.1	6.7%	1.5	0.0	0.0%
dCSB	2.2	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	-0.1	-4.5%	2.2	0.0	0.0%	2.2	-0.1	-4.5%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	42.3	26.4	-15.9	-37.6%	27.0	-15.3	-36.2%	25.8	-16.5	-39.0%	26.3	-16.0	-37.8%	40.6	-1.7	-4.0%
dRS	5.8	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%
dSCWRF	1.6	1.6	-0.1	-6.3%	1.6	0.0	0.0%	1.6	-0.1	-6.3%	1.6	0.0	0.0%	1.6	-0.1	-6.3%
dSWS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
GRG	5.5	5.5	0.0	0.0%	5.5	0.0	0.0%	5.5	0.0	0.0%	5.5	0.0	0.0%	5.5	0.0	0.0%
HW	335.0	335.2	0.2	0.1%	335.0	0.0	0.0%	335.1	0.1	0.0%	335.3	0.3	0.1%	335.2	0.2	0.1%
MFS	12.8	8.2	-4.6	-35.9%	9.3	-3.5	-27.3%	8.1	-4.7	-36.7%	8.2	-4.6	-35.9%	13.8	1.0	7.8%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
RW	224.2	223.2	-1.0	-0.4%	224.2	0.0	0.0%	224.3	0.1	0.0%	225.1	0.9	0.4%	224.0	-0.2	-0.1%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	295.7	294.4	-1.3	-0.4%	294.6	-1.1	-0.4%	295.0	-0.7	-0.2%	300.0	4.3	1.5%	295.6	-0.1	0.0%
SWS	9.5	9.7	0.2	2.1%	9.6	0.1	1.1%	9.7	0.2	2.1%	9.7	0.2	2.1%	9.6	0.1	1.1%
TAM	1.1	1.1	0.0	0.0%	1.2	0.1	9.1%	1.1	0.0	0.0%	1.1	0.0	0.0%	1.1	0.0	0.0%
VOW	2.2	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%
Not Coded	2.8	2.8	0.0	0.0%	2.7	-0.1	-3.6%	2.7	-0.1	-3.6%	2.7	-0.1	-3.6%	2.8	0.0	0.0%
< 4fps	403.8	358.0	-45.8	-11.3%	375.5	-28.3	-7.0%	359.2	-44.6	-11.0%	352.0	-51.8	-12.8%	390.2	-13.6	-3.4%
TOTAL	1675.0	1447.7	-181.5	-10.8%	1477.5	-169.2	-10.1%	1451.1	-179.3	-10.7%	1452.4	-170.8	-10.2%	1644.0	-17.4	-1.0%

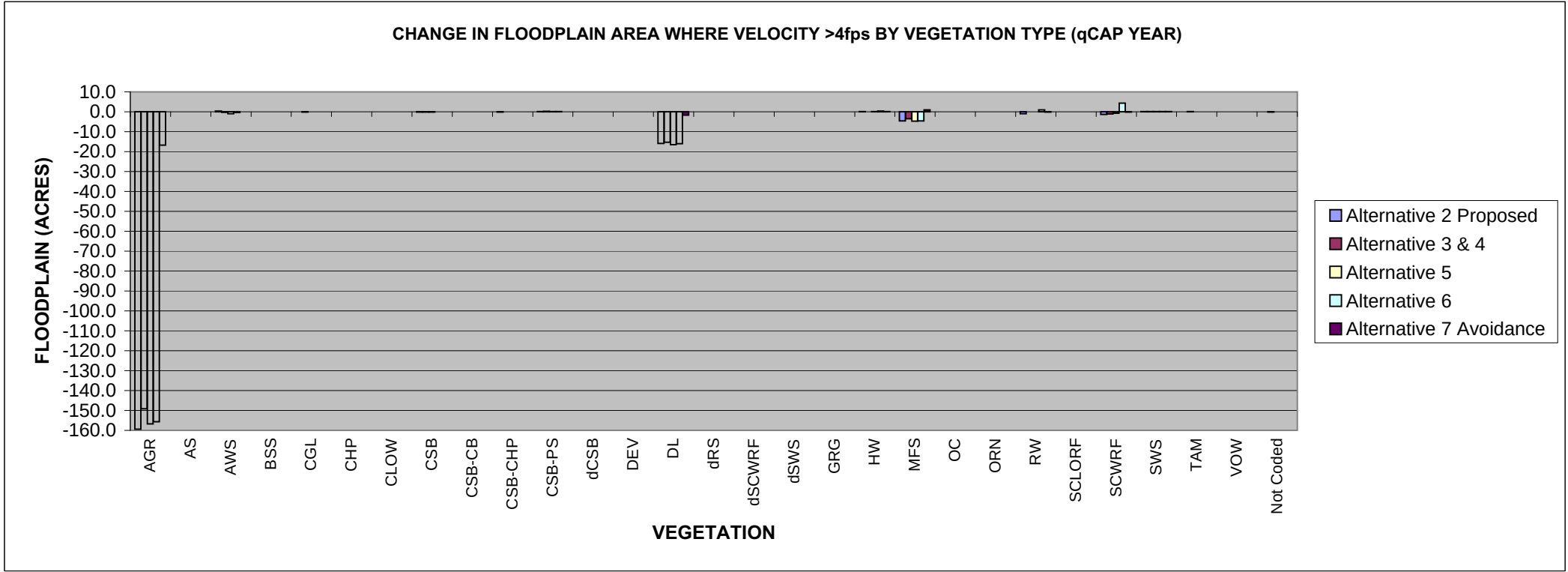


FIGURE 6.2a: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 2-YEAR

2 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	1.0	0.9	-0.1	-10.5%	0.9	-0.1	-10.5%	0.8	-0.2	-20.9%	0.9	-0.1	-10.5%	0.9	-0.1	-10.5%
AS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
CSB	0.6	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-PS	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
dCSB	1.6	1.5	-0.1	-6.3%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	2.4	2.4	0.0	0.0%	2.4	0.0	0.0%	2.5	0.1	4.1%	2.5	0.1	4.1%	2.4	0.0	0.0%
dRS	1.4	1.5	0.1	7.2%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%
dSCWRF	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	2.0	2.0	0.0	0.0%	2.0	0.0	0.0%	2.0	0.0	0.0%	2.0	0.0	0.0%	2.0	0.0	0.0%
HW	212.0	211.7	-0.3	-0.1%	211.5	-0.5	-0.2%	211.7	-0.3	-0.1%	211.7	-0.3	-0.1%	211.7	-0.3	-0.1%
MFS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	142.5	143.0	0.4	0.3%	142.7	0.2	0.1%	142.9	0.4	0.3%	142.8	0.3	0.2%	142.7	0.2	0.1%
SCLORF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	77.3	77.7	0.4	0.5%	77.1	-0.2	-0.3%	77.5	0.2	0.3%	77.4	0.1	0.1%	77.5	0.3	0.4%
SWS	2.5	2.4	-0.1	-4.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
TAM	1.4	1.5	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.5	0.0	0.0%
VOW	1.4	1.3	-0.1	-7.4%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%	1.4	0.0	0.0%
Not Coded	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
TOTAL	447.3	447.5	0.2	0.0%	446.7	-0.6	-0.1%	447.5	0.2	0.0%	447.4	0.1	0.0%	447.4	0.0	0.0%

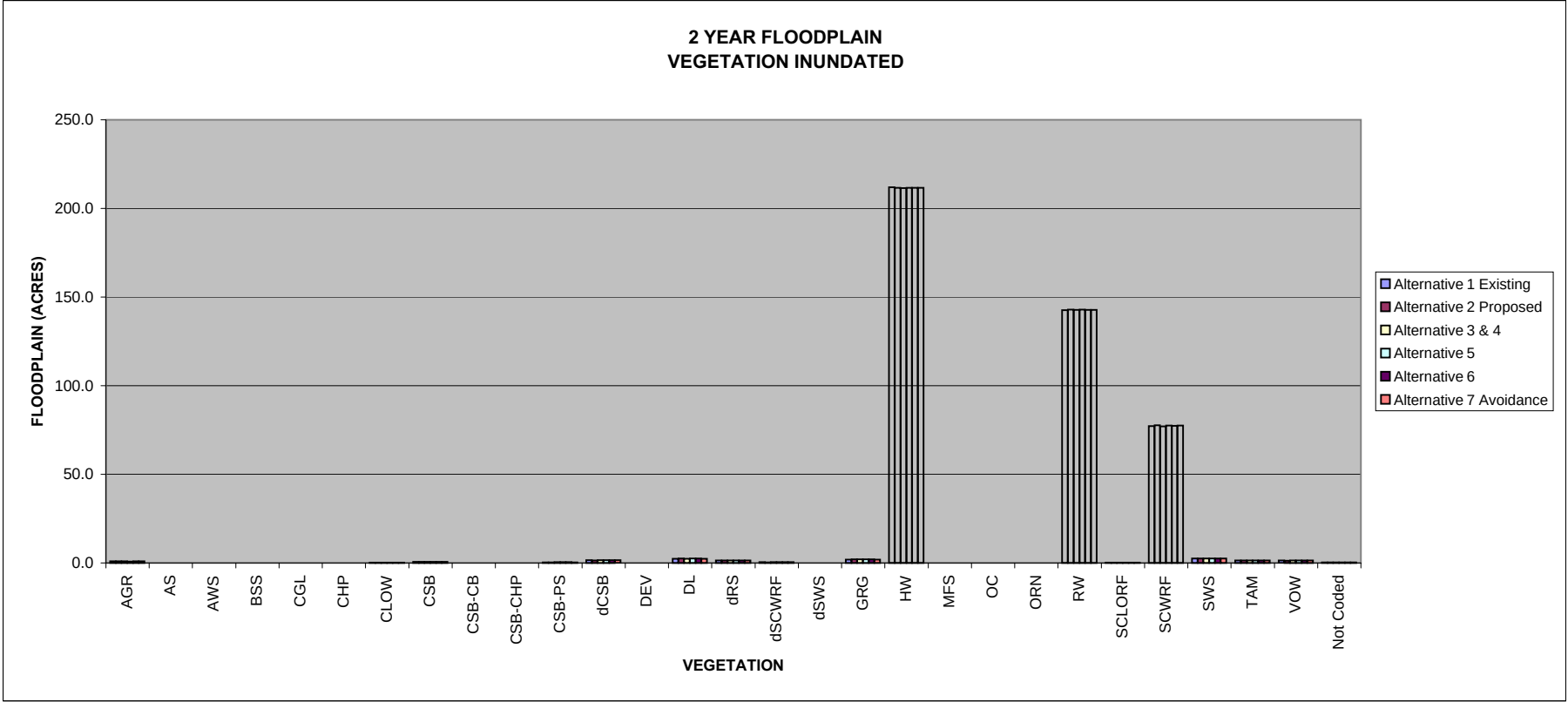


FIGURE 6.2b: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 5-YEAR

5 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	1.4	1.5	0.1	7.4%	1.3	-0.1	-7.4%	1.2	-0.2	-14.8%	1.3	-0.1	-7.4%	1.2	-0.2	-14.8%
AS	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.3	0.3	-0.1	-30.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
CSB	0.8	0.7	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%	0.8	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-PS	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
dCSB	1.8	1.7	-0.1	-5.7%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	3.8	3.9	0.1	2.6%	3.8	0.0	0.0%	3.8	0.0	0.0%	3.8	0.0	0.0%	3.8	0.0	0.0%
dRS	2.9	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%
dSCWRF	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	2.5	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
HW	271.8	272.3	0.5	0.2%	272.1	0.2	0.1%	272.0	0.2	0.1%	272.2	0.3	0.1%	272.1	0.3	0.1%
MFS	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	179.7	179.8	0.1	0.1%	179.8	0.1	0.1%	179.6	0.0	0.0%	180.0	0.4	0.2%	179.9	0.2	0.1%
SCLORF	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
SCWRF	120.4	121.1	0.7	0.6%	120.9	0.4	0.3%	120.6	0.2	0.2%	121.2	0.8	0.7%	120.9	0.5	0.4%
SWS	7.6	7.4	-0.3	-3.9%	7.5	-0.1	-1.3%	7.5	-0.1	-1.3%	7.5	-0.1	-1.3%	7.7	0.1	1.3%
TAM	1.7	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.7	0.0	0.0%
VOW	1.8	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%
Not Coded	0.5	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
TOTAL	598.4	599.5	1.1	0.2%	599.0	0.6	0.1%	598.3	0.0	0.0%	599.6	1.3	0.2%	599.4	1.0	0.2%

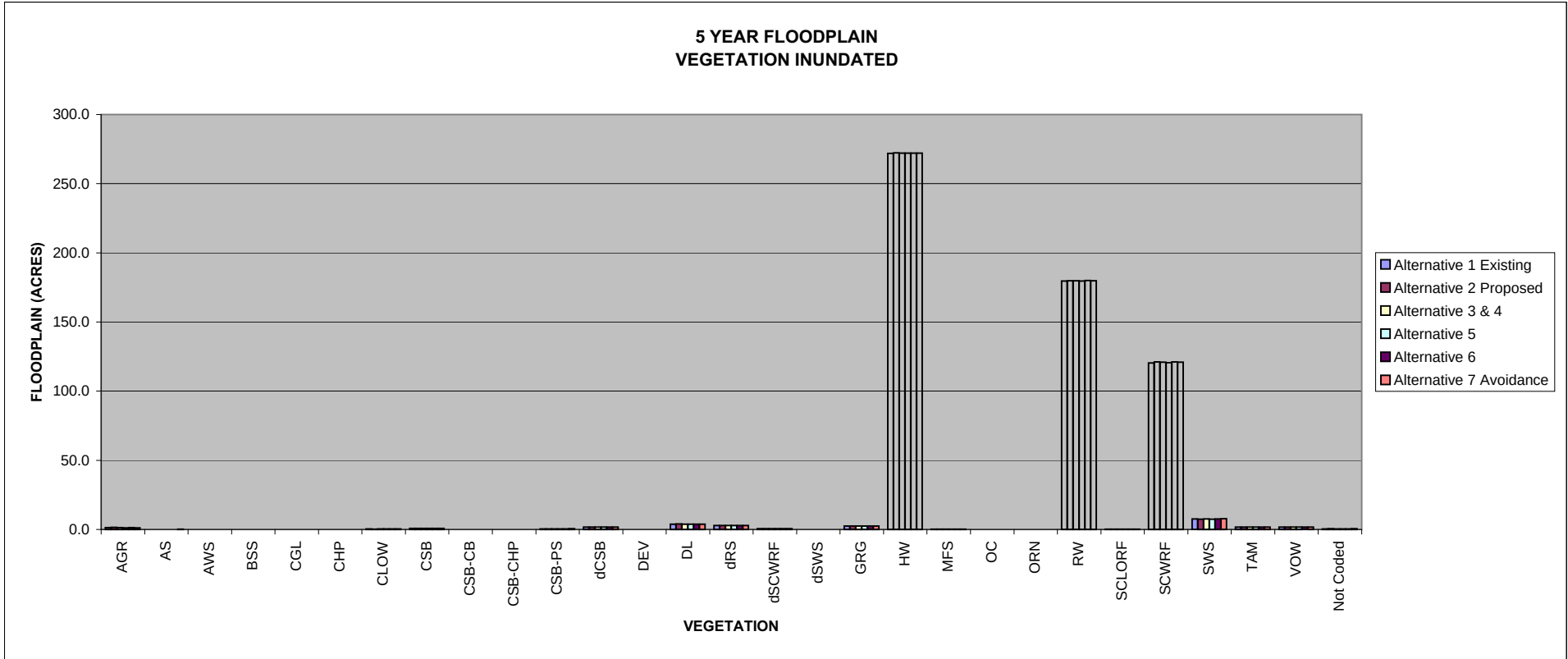


FIGURE 6.2c: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 10-YEAR

10 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	6.9	7.2	0.3	4.4%	4.8	-2.1	-30.6%	4.8	-2.1	-30.6%	4.8	-2.1	-30.6%	5.3	-1.6	-23.3%
AS	0.2	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
AWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
BSS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CGL	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.5	0.4	-0.1	-19.6%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%	0.5	0.0	0.0%
CSB	1.1	1.0	-0.1	-9.1%	1.0	-0.1	-9.1%	1.0	-0.1	-9.1%	1.1	0.0	0.0%	1.1	0.0	0.0%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.0	0.0	0.0%	0.1	0.0	0.0%	0.0	0.0	0.0%	0.0	-0.1	-200.0%	0.1	0.0	0.0%
CSB-PS	0.6	0.6	-0.1	-15.6%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%
dCSB	2.1	2.0	-0.1	-4.7%	2.1	-0.1	-4.7%	2.1	-0.1	-4.7%	2.1	0.0	0.0%	2.1	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	5.2	5.3	0.1	1.9%	5.1	-0.1	-1.9%	5.1	-0.1	-1.9%	5.1	-0.1	-1.9%	5.2	0.0	0.0%
dRS	5.7	5.7	0.0	0.0%	5.7	0.0	0.0%	5.7	0.0	0.0%	5.7	0.0	0.0%	5.7	0.0	0.0%
dSCWRF	0.9	0.8	-0.1	-11.1%	0.8	-0.1	-11.1%	0.8	-0.1	-11.1%	0.8	-0.1	-11.1%	0.9	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	2.5	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
HW	315.1	315.0	-0.2	-0.1%	314.8	-0.4	-0.1%	314.7	-0.4	-0.1%	314.8	-0.3	-0.1%	314.9	-0.2	-0.1%
MFS	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.1	28.6%	0.4	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	195.2	194.9	-0.3	-0.2%	194.8	-0.4	-0.2%	194.8	-0.4	-0.2%	194.9	-0.3	-0.2%	195.3	0.1	0.1%
SCLORF	0.3	0.2	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	170.2	168.4	-1.8	-1.1%	168.7	-1.5	-0.9%	168.1	-2.1	-1.2%	168.6	-1.6	-0.9%	170.3	0.1	0.1%
SWS	8.9	8.4	-0.5	-5.6%	8.7	-0.2	-2.3%	8.7	-0.2	-2.3%	8.7	-0.2	-2.3%	8.8	-0.1	-1.1%
TAM	1.7	1.7	0.0	0.0%	1.7	0.0	0.0%	1.7	0.0	0.0%	1.7	0.0	0.0%	1.7	0.0	0.0%
VOW	2.0	2.0	-0.1	-5.0%	2.0	0.0	0.0%	2.0	0.0	0.0%	2.0	0.0	0.0%	2.0	0.0	0.0%
Not Coded	0.6	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.6	0.0	0.0%	0.5	0.0	0.0%
TOTAL	720.1	717.1	-2.9	-0.4%	715.2	-4.9	-0.7%	714.4	-5.7	-0.8%	715.4	-4.7	-0.7%	718.3	-1.8	-0.2%

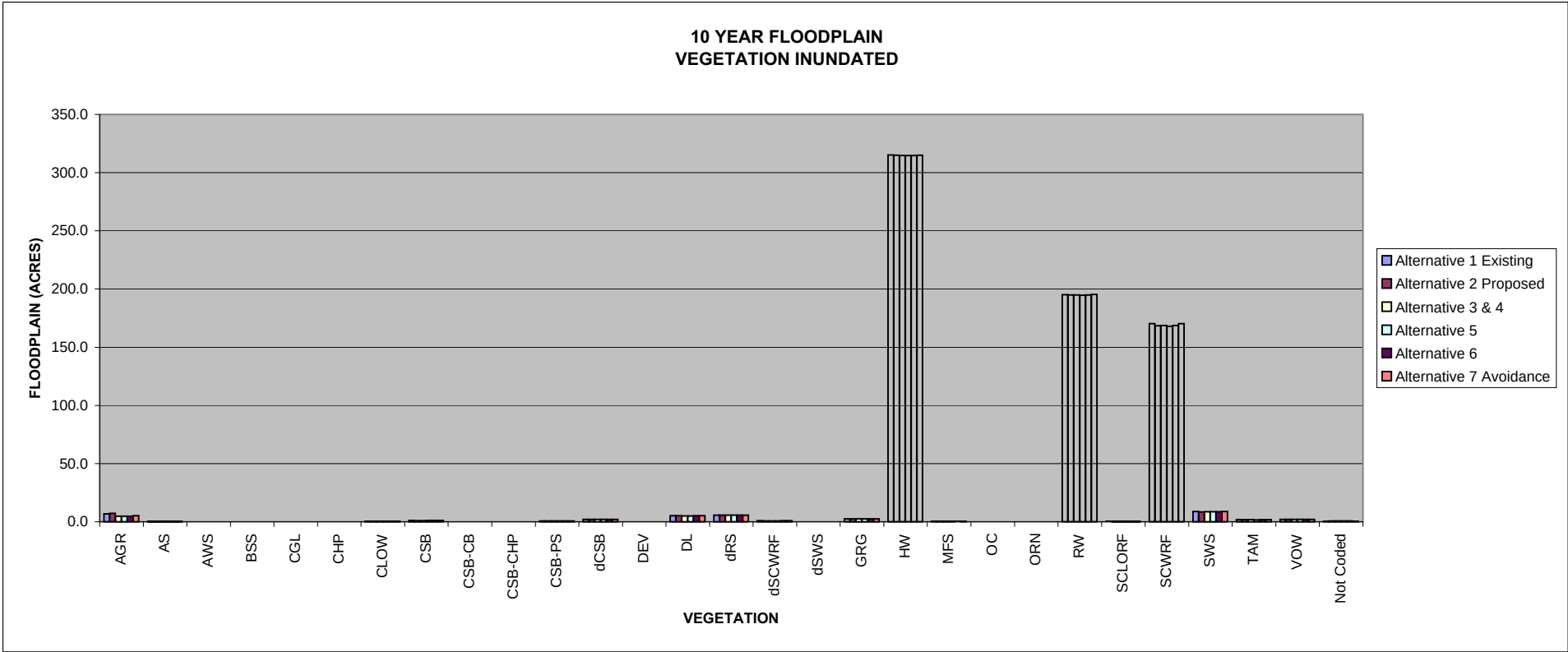


FIGURE 6.2d: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 20-YEAR

20 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	95.1	38.4	-56.7	-59.6%	44.5	-50.6	-53.2%	29.7	-65.4	-68.8%	35.4	-59.7	-62.8%	86.8	-8.3	-8.7%
AS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
AWS	0.6	1.2	0.6	95.2%	0.9	0.2	31.7%	0.4	-0.2	-31.7%	0.4	-0.2	-31.7%	0.6	0.0	0.0%
BSS	0.1	0.2	0.1	100.0%	0.2	0.1	100.0%	0.2	0.1	100.0%	0.0	-0.1	-100.0%	0.1	0.0	0.0%
CGL	2.1	2.1	0.0	0.0%	2.1	0.0	0.0%	2.2	0.1	4.7%	2.2	0.0	0.0%	2.1	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	0.9	0.8	-0.1	-11.5%	0.9	0.0	0.0%	0.9	0.0	0.0%	0.9	0.0	0.0%	0.9	0.0	0.0%
CSB	1.4	1.3	-0.1	-7.2%	1.2	-0.2	-14.5%	1.2	-0.2	-14.5%	1.3	-0.1	-7.2%	1.2	-0.1	-7.2%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
CSB-PS	0.7	0.7	-0.1	-13.9%	0.7	0.0	0.0%	0.7	0.0	0.0%	0.7	0.0	0.0%	0.8	0.0	0.0%
dCSB	2.2	2.2	-0.1	-4.5%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.2	0.0	0.0%	2.3	0.1	4.5%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	14.4	8.7	-5.6	-39.0%	8.2	-6.2	-43.1%	8.3	-6.1	-42.4%	8.5	-5.9	-41.1%	12.6	-1.8	-12.5%
dRS	5.8	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%
dSCWRF	1.0	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.1	0.0	0.0%
dSWS	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
GRG	3.5	3.6	0.0	0.0%	3.5	0.0	0.0%	3.5	0.0	0.0%	3.5	0.0	0.0%	3.6	0.0	0.0%
HW	349.4	351.0	1.6	0.5%	349.9	0.5	0.1%	349.5	0.1	0.0%	350.4	1.0	0.3%	349.5	0.1	0.0%
MFS	7.1	3.4	-3.7	-52.0%	4.5	-2.7	-37.9%	2.8	-4.3	-60.4%	3.3	-3.8	-53.4%	7.2	0.0	0.0%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
RW	220.5	220.8	0.3	0.1%	219.8	-0.7	-0.3%	220.1	-0.3	-0.1%	220.3	-0.1	0.0%	220.5	0.0	0.0%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	279.0	273.0	-6.0	-2.2%	273.8	-5.2	-1.9%	268.4	-10.6	-3.8%	270.7	-8.3	-3.0%	278.3	-0.7	-0.3%
SWS	10.0	9.4	-0.6	-6.0%	9.6	-0.4	-4.0%	9.7	-0.3	-3.0%	9.9	-0.1	-1.0%	10.0	0.0	0.0%
TAM	1.8	1.7	-0.1	-5.6%	1.7	-0.1	-5.6%	1.7	-0.1	-5.6%	1.7	-0.1	-5.6%	1.8	0.0	0.0%
VOW	2.1	2.1	-0.1	-4.7%	2.1	0.0	0.0%	2.1	0.0	0.0%	2.1	0.0	0.0%	2.2	0.0	0.0%
Not Coded	0.6	0.7	0.0	0.0%	0.6	0.0	0.0%	0.7	0.1	15.6%	0.8	0.1	15.6%	0.6	0.0	0.0%
TOTAL	998.9	928.5	-70.4	-7.0%	933.8	-65.1	-6.5%	911.8	-87.1	-8.7%	921.6	-77.4	-7.7%	988.4	-10.5	-1.1%

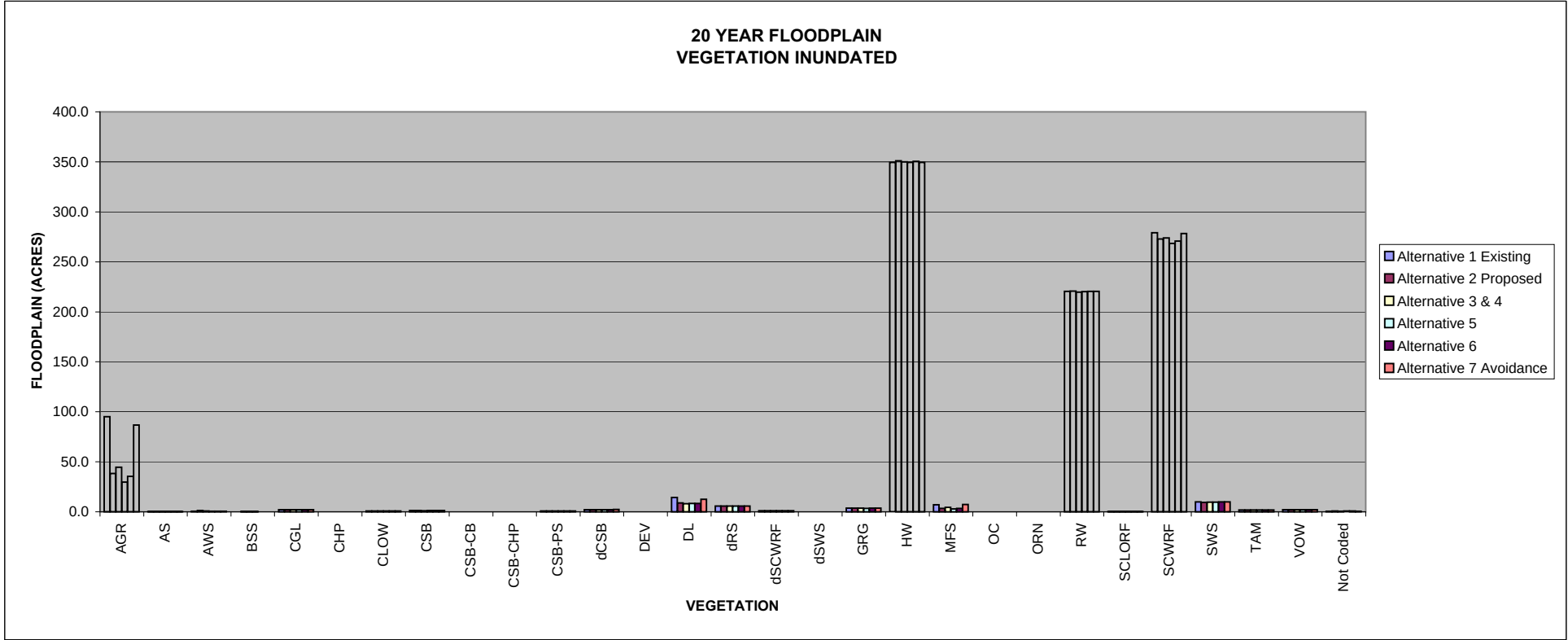


FIGURE 6.2e: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 50-YEAR

50 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	205.7	89.8	-115.9	-56.4%	97.5	-108.2	-52.6%	94.1	-111.6	-54.3%	94.6	-111.1	-54.0%	202.6	-3.1	-1.5%
AS	0.6	0.7	0.1	16.4%	0.7	0.1	16.4%	0.7	0.1	16.4%	0.7	0.1	16.4%	0.6	0.0	0.0%
AWS	1.9	1.9	0.0	0.0%	1.8	-0.1	-5.3%	0.9	-1.0	-53.5%	0.9	-1.0	-53.5%	1.7	-0.1	-5.3%
BSS	0.3	0.3	0.1	40.0%	0.3	0.1	40.0%	0.3	0.1	40.0%	0.3	0.1	40.0%	0.2	0.0	0.0%
CGL	9.6	9.6	0.0	0.0%	9.7	0.1	1.0%	10.3	0.7	7.3%	10.3	0.7	7.3%	9.7	0.0	0.0%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	1.3	1.2	-0.1	-7.6%	1.3	0.0	0.0%	1.4	0.1	7.6%	1.4	0.1	7.6%	1.2	-0.1	-7.6%
CSB	1.9	1.6	-0.3	-15.7%	1.6	-0.3	-15.7%	1.5	-0.4	-20.9%	1.6	-0.4	-20.9%	1.6	-0.3	-15.7%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.2	0.0	0.0%	0.1	0.0	0.0%
CSB-PS	1.0	1.4	0.4	38.5%	1.5	0.5	48.1%	1.5	0.5	48.1%	1.5	0.5	48.1%	1.1	0.1	9.6%
dCSB	2.5	2.7	0.2	8.0%	2.8	0.3	12.0%	2.8	0.3	12.0%	2.8	0.3	12.0%	2.5	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	30.0	16.0	-14.0	-46.7%	19.2	-10.8	-36.0%	18.6	-11.4	-38.0%	18.6	-11.4	-38.0%	27.4	-2.6	-8.7%
dRS	5.8	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%
dSCWRF	1.3	1.4	0.1	7.6%	1.4	0.1	7.6%	1.4	0.1	7.6%	1.4	0.1	7.6%	1.3	0.0	0.0%
dSWS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
GRG	5.0	5.1	0.1	2.0%	5.0	0.0	0.0%	5.1	0.1	2.0%	5.1	0.0	0.0%	5.0	0.0	0.0%
HW	357.8	358.9	1.1	0.3%	358.6	0.8	0.2%	358.7	0.9	0.3%	358.6	0.8	0.2%	357.8	-0.1	0.0%
MFS	10.5	7.5	-3.0	-28.6%	9.4	-1.1	-10.5%	8.1	-2.4	-22.9%	8.2	-2.3	-21.9%	10.7	0.2	1.9%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.1	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
RW	248.1	250.7	2.6	1.0%	249.3	1.2	0.5%	250.5	2.4	1.0%	250.4	2.2	0.9%	248.3	0.2	0.1%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	392.4	389.0	-3.4	-0.9%	395.2	2.8	0.7%	391.0	-1.4	-0.4%	391.6	-0.8	-0.2%	394.2	1.8	0.5%
SWS	11.8	11.5	-0.3	-2.5%	12.0	0.2	1.7%	12.0	0.2	1.7%	12.0	0.2	1.7%	11.8	0.0	0.0%
TAM	1.8	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%	1.8	0.0	0.0%
VOW	2.4	2.3	-0.1	-4.2%	2.3	-0.1	-4.2%	2.3	-0.1	-4.2%	2.3	-0.1	-4.2%	2.4	0.0	0.0%
Not Coded	1.6	1.8	0.2	12.4%	1.7	0.1	6.2%	1.7	0.1	6.2%	1.7	0.1	6.2%	1.6	0.0	0.0%
TOTAL	1294.2	1161.8	-132.4	-10.2%	1179.7	-114.5	-8.8%	1171.3	-122.9	-9.5%	1172.2	-121.9	-9.4%	1290.0	-4.1	-0.3%

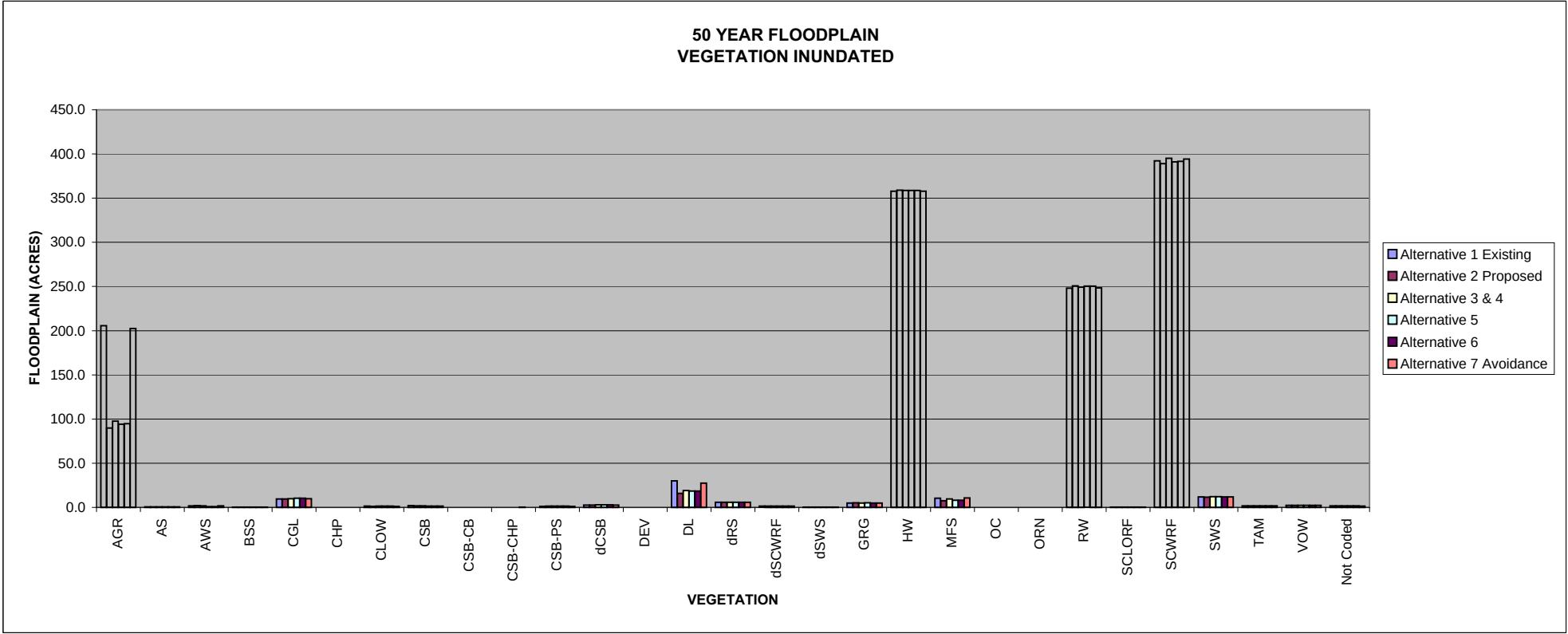


FIGURE 6.2f: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, 100-YEAR

100 YEAR																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	243.3	124.3	-119.0	-48.9%	129.4	-113.9	-46.8%	119.2	-124.1	-51.0%	122.3	-121.0	-49.7%	239.9	-3.4	-1.4%
AS	0.7	1.0	0.3	41.1%	0.9	0.2	27.4%	0.8	0.1	13.7%	0.8	0.0	0.0%	0.8	0.1	13.7%
AWS	2.5	3.0	0.5	20.3%	3.1	0.6	24.4%	1.3	-1.2	-48.8%	2.3	-0.2	-8.1%	2.3	-0.2	-8.1%
BSS	0.4	0.3	-0.1	-25.6%	0.3	-0.1	-25.6%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
CGL	15.5	15.3	-0.2	-1.3%	15.5	0.0	0.0%	14.8	-0.7	-4.5%	14.8	-0.7	-4.5%	15.2	-0.3	-1.9%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	1.5	1.4	-0.1	-6.5%	1.5	0.0	0.0%	1.6	0.1	6.5%	1.6	0.1	6.5%	1.4	-0.1	-6.5%
CSB	2.3	1.9	-0.4	-17.2%	2.1	-0.2	-8.6%	1.8	-0.5	-21.6%	1.9	-0.5	-21.6%	1.9	-0.4	-17.2%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.2	0.1	-0.1	-50.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%	0.2	0.0	0.0%
CSB-PS	1.4	1.6	0.2	14.0%	1.7	0.3	21.0%	1.8	0.4	28.0%	1.8	0.3	21.0%	1.4	0.0	0.0%
dCSB	2.7	3.0	0.3	11.2%	3.0	0.3	11.2%	3.0	0.3	11.2%	3.1	0.4	14.9%	2.7	0.0	0.0%
DEV	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
DL	39.4	24.7	-14.7	-37.3%	29.2	-10.2	-25.9%	23.1	-16.3	-41.4%	23.1	-16.3	-41.4%	36.8	-2.6	-6.6%
dRS	5.8	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%
dSCWRF	1.5	1.5	0.0	0.0%	1.5	0.0	0.0%	1.5	0.0	0.0%	1.5	0.0	0.0%	1.5	0.0	0.0%
dSWS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
GRG	5.4	5.3	-0.1	-1.9%	5.2	-0.2	-3.7%	5.2	-0.2	-3.7%	5.2	-0.1	-1.9%	5.4	0.0	0.0%
HW	359.9	361.4	1.5	0.4%	361.2	1.3	0.4%	360.6	0.8	0.2%	360.7	0.8	0.2%	359.9	0.0	0.0%
MFS	13.4	10.5	-2.9	-21.7%	11.6	-1.8	-13.5%	9.9	-3.5	-26.2%	10.3	-3.1	-23.2%	14.4	1.0	7.5%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.1	0.1	0.0	0.0%	0.2	0.1	83.3%	0.1	0.0	0.0%	0.1	0.0	0.0%	0.1	0.0	0.0%
RW	255.2	257.4	2.2	0.9%	256.0	0.8	0.3%	254.1	-1.1	-0.4%	254.4	-0.9	-0.4%	255.3	0.1	0.0%
SCLORF	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
SCWRF	436.3	444.9	8.6	2.0%	449.2	12.9	3.0%	425.3	-11.0	-2.5%	434.7	-1.6	-0.4%	436.9	0.6	0.1%
SWS	12.4	12.6	0.2	1.6%	12.7	0.3	2.4%	12.5	0.1	0.8%	12.6	0.2	1.6%	12.4	0.0	0.0%
TAM	1.9	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%	1.9	0.0	0.0%
VOW	2.5	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
Not Coded	2.6	2.8	0.2	7.6%	2.7	0.1	3.8%	2.7	0.1	3.8%	2.7	0.0	0.0%	2.6	0.0	0.0%
TOTAL	1407.6	1283.9	-123.7	-8.8%	1298.0	-109.6	-7.8%	1250.7	-156.9	-11.1%	1265.3	-142.4	-10.1%	1402.3	-5.3	-0.4%

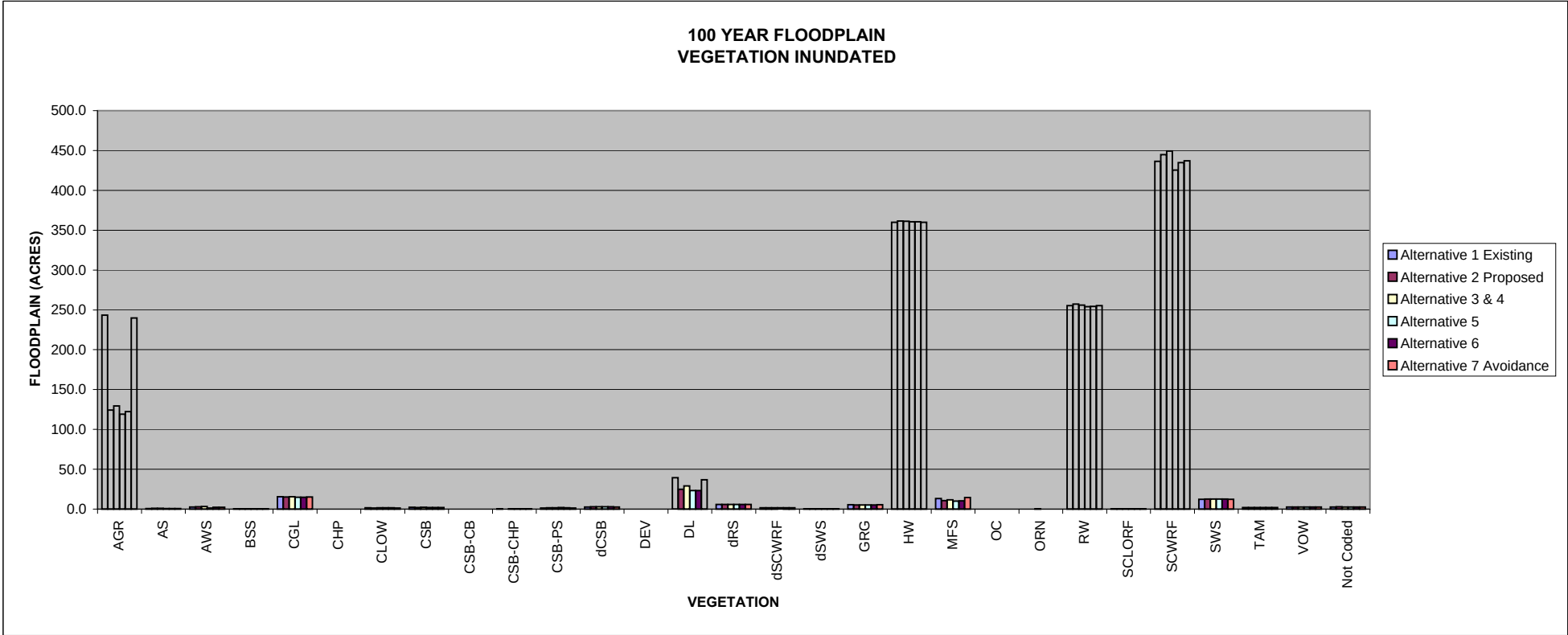
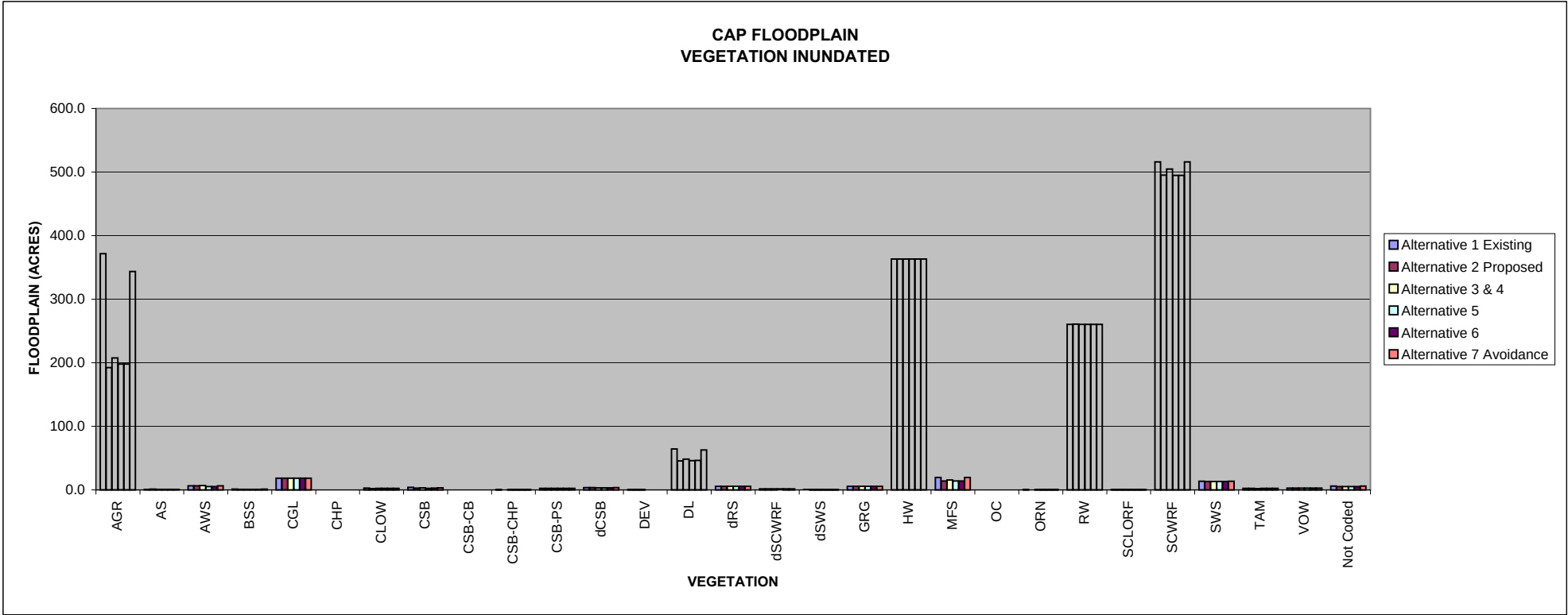
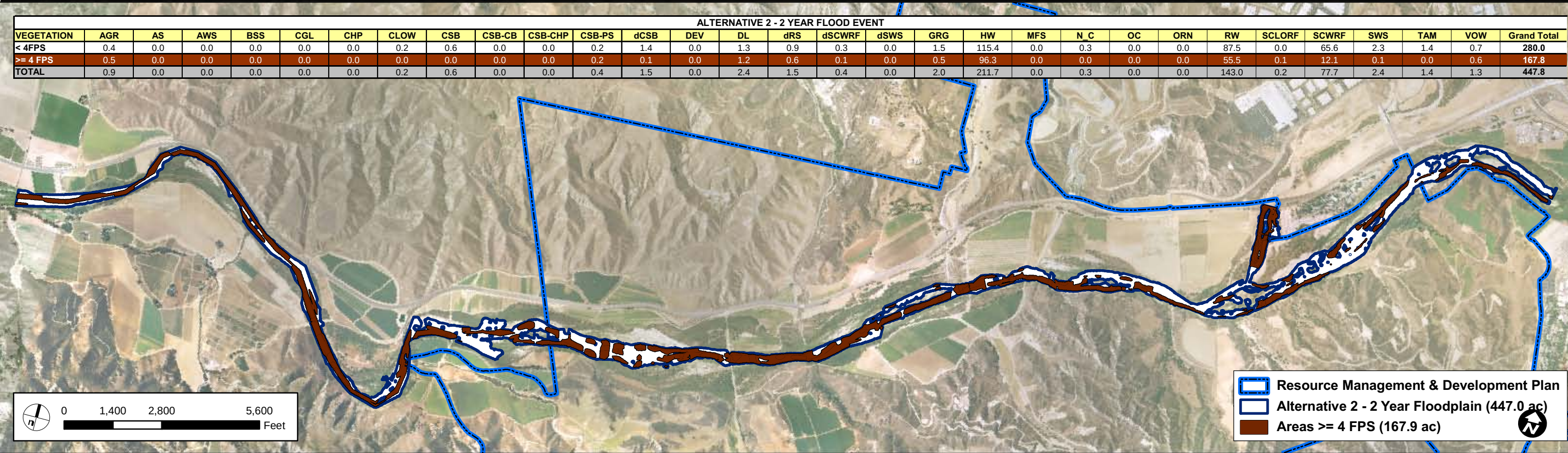
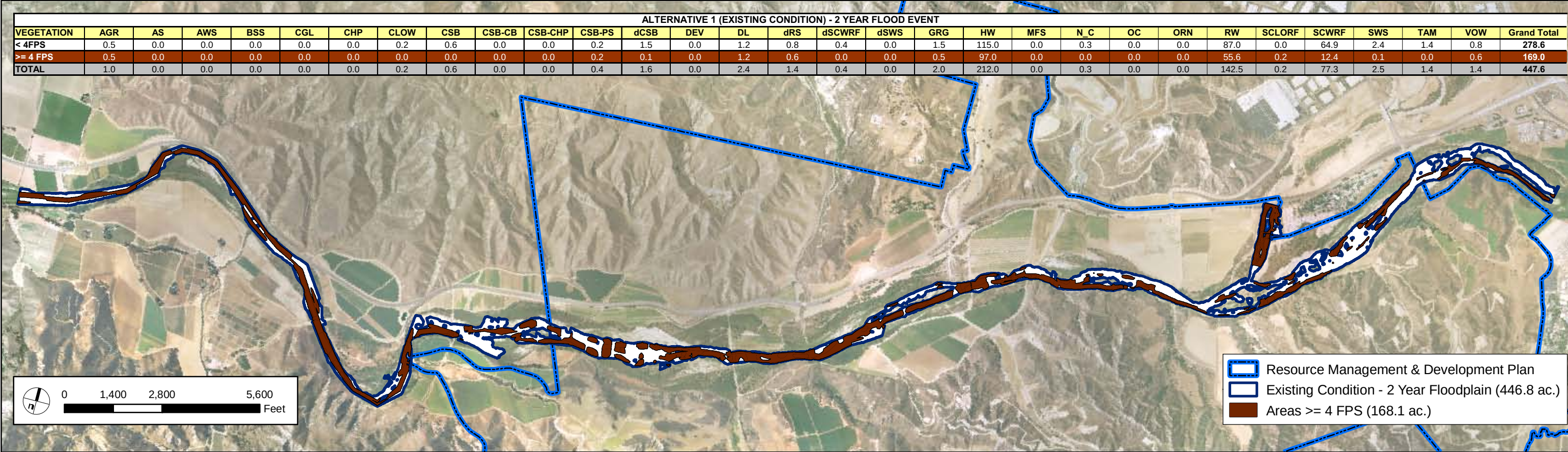


FIGURE 6.2g: CHANGE IN FLOODPLAIN AREA WHERE VELOCITY > 4fps BY VEGETATION, QCAP

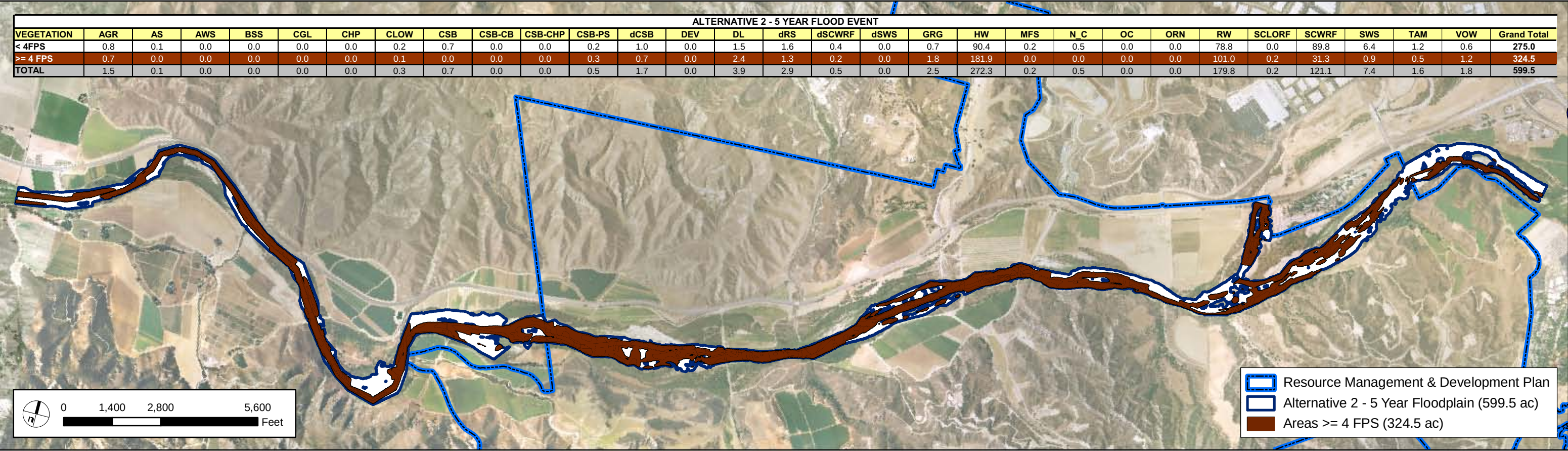
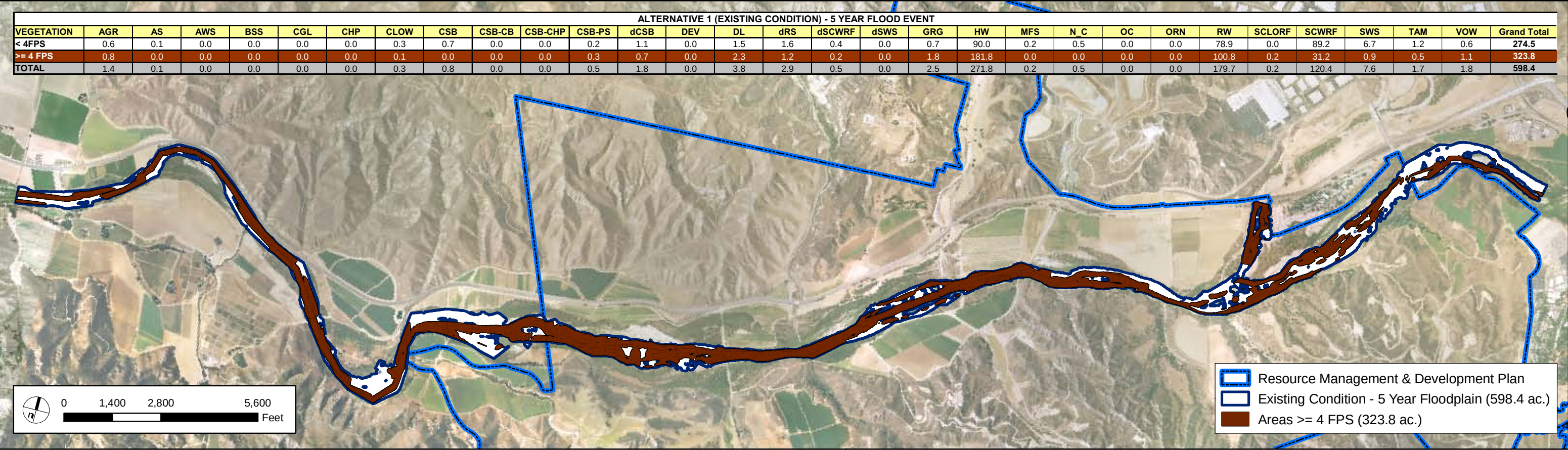
QCAP																
Vegetation Type	Alternative 1 (Existing)	Alternative 2 (Proposed)	DELTA	DELTA %	Alternative 3&4	DELTA	DELTA %	Alternative 5	DELTA	DELTA %	Alternative 6	DELTA	DELTA %	Alternative 7 (Avoidance)	DELTA	DELTA %
AGR	371.5	192.3	-179.2	-48.2%	207.5	-164.0	-44.1%	197.9	-173.6	-46.7%	198.2	-173.3	-46.6%	343.6	-27.9	-7.5%
AS	1.0	1.4	0.4	40.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%	1.0	0.0	0.0%
AWS	6.5	6.4	-0.1	-1.5%	6.8	0.3	4.6%	5.2	-1.3	-20.0%	5.2	-1.3	-20.0%	6.4	-0.1	-1.5%
BSS	1.2	0.9	-0.3	-25.0%	0.9	-0.3	-25.0%	0.9	-0.3	-25.0%	0.9	-0.3	-25.0%	1.1	-0.1	-8.3%
CGL	18.5	18.6	0.1	0.5%	18.4	-0.1	-0.5%	18.5	0.0	0.0%	18.5	0.0	0.0%	18.6	0.1	0.5%
CHP	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CLOW	2.8	2.1	-0.7	-25.0%	2.5	-0.3	-10.7%	2.6	-0.2	-7.1%	2.6	-0.2	-7.1%	2.5	-0.3	-10.7%
CSB	3.9	2.8	-1.1	-28.2%	3.2	-0.7	-17.9%	2.6	-1.3	-33.3%	2.7	-1.2	-30.8%	3.2	-0.7	-17.9%
CSB-CB	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
CSB-CHP	0.4	0.2	-0.2	-50.0%	0.3	-0.1	-25.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
CSB-PS	2.5	2.4	-0.1	-4.0%	2.6	0.1	4.0%	2.5	0.0	0.0%	2.5	0.0	0.0%	2.5	0.0	0.0%
dCSB	3.5	3.5	0.0	0.0%	3.4	-0.1	-2.9%	3.4	-0.1	-2.9%	3.4	-0.1	-2.9%	3.5	0.0	0.0%
DEV	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.2	-0.1	-33.3%	0.2	-0.1	-33.3%	0.2	-0.1	-33.3%
DL	64.6	45.7	-18.9	-29.3%	48.5	-16.1	-24.9%	46.2	-18.4	-28.5%	46.4	-18.2	-28.2%	62.8	-1.8	-2.8%
dRS	5.8	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%	5.8	0.0	0.0%
dSCWRF	1.6	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%	1.6	0.0	0.0%
dSWS	0.3	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
GRG	5.6	5.6	0.0	0.0%	5.6	0.0	0.0%	5.6	0.0	0.0%	5.6	0.0	0.0%	5.6	0.0	0.0%
HW	363.4	363.1	-0.3	-0.1%	363.2	-0.2	-0.1%	363.1	-0.3	-0.1%	363.2	-0.2	-0.1%	363.4	0.0	0.0%
MFS	19.8	14.0	-5.8	-29.3%	15.7	-4.1	-20.7%	13.9	-5.9	-29.8%	14.2	-5.6	-28.3%	19.7	-0.1	-0.5%
OC	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%	0.0	0.0	0.0%
ORN	0.3	0.2	-0.1	-33.3%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%	0.3	0.0	0.0%
RW	260.3	260.9	0.6	0.2%	260.4	0.1	0.0%	260.4	0.1	0.0%	260.6	0.3	0.1%	260.4	0.1	0.0%
SCLORF	0.4	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%	0.4	0.0	0.0%
SCWRF	516.1	495.4	-20.7	-4.0%	505.0	-11.1	-2.2%	494.7	-21.4	-4.1%	494.9	-21.2	-4.1%	516.0	-0.1	0.0%
SWS	13.5	13.3	-0.2	-1.5%	13.3	-0.2	-1.5%	13.3	-0.2	-1.5%	13.3	-0.2	-1.5%	13.5	0.0	0.0%
TAM	2.3	2.3	0.0	0.0%	2.2	-0.1	-4.3%	2.3	0.0	0.0%	2.3	0.0	0.0%	2.3	0.0	0.0%
VOW	2.9	2.8	-0.1	-3.4%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%	2.9	0.0	0.0%
Not Coded	6.1	5.3	-0.8	-13.1%	5.2	-0.9	-14.8%	5.1	-1.0	-16.4%	5.2	-0.9	-14.8%	6.0	-0.1	-1.6%
TOTAL	1675.1	1447.6	-227.5	-13.6%	1477.3	-196.9	-11.8%	1451.1	-224.0	-13.4%	1452.6	-222.5	-13.3%	1644.0	-31.1	-1.9%





SOURCE: PACE 2008

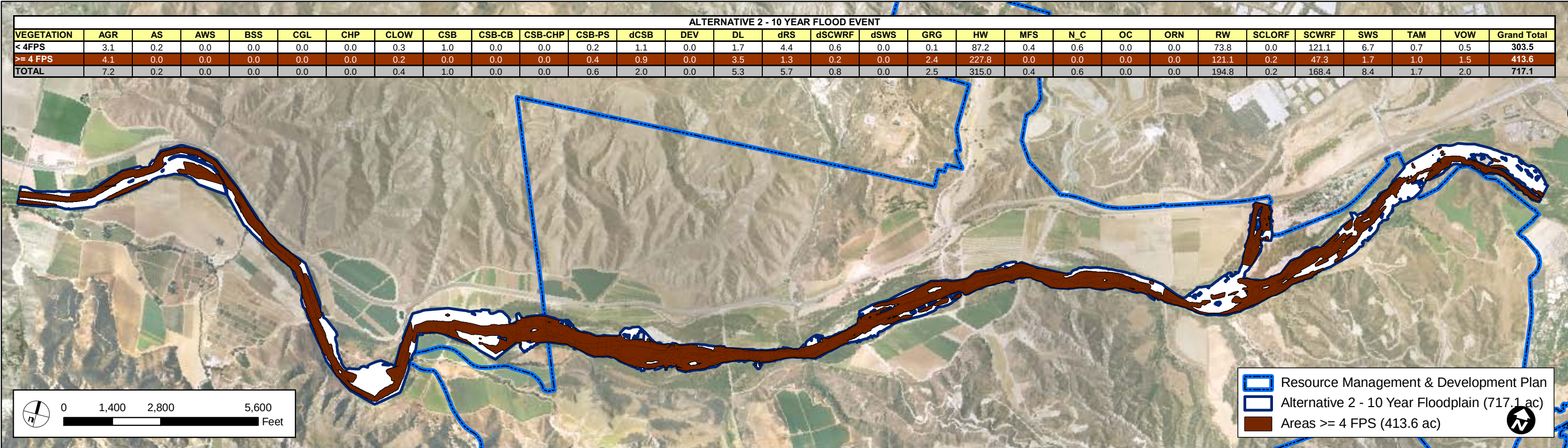
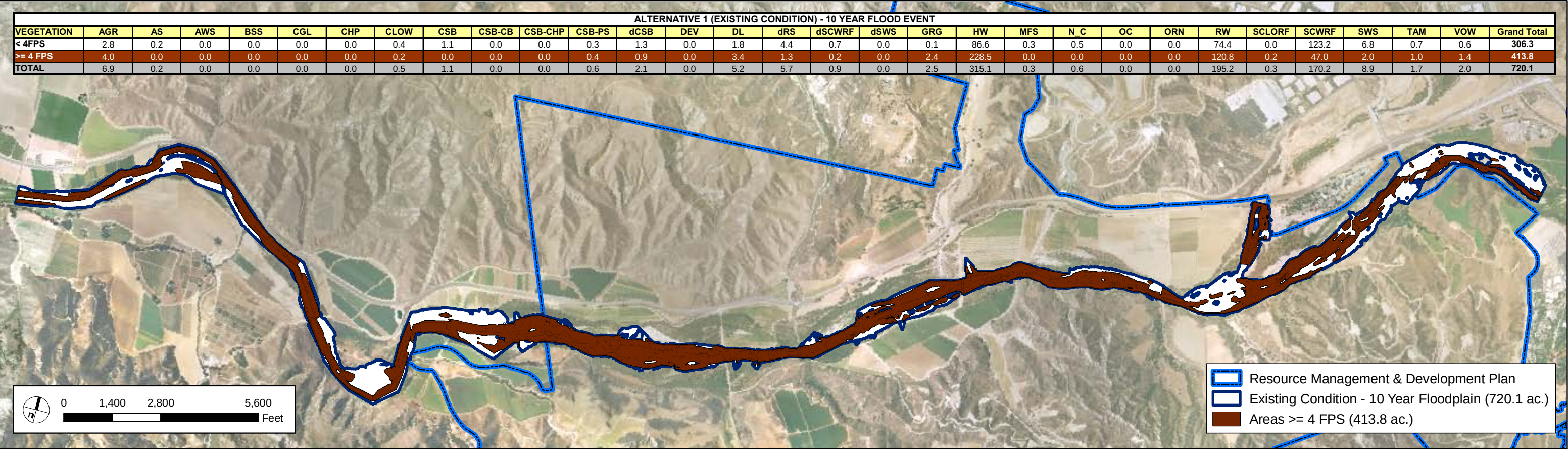
FIGURE 1.1-1
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) 2 YEAR FLOOD EVENT



SOURCE: PACE 2008

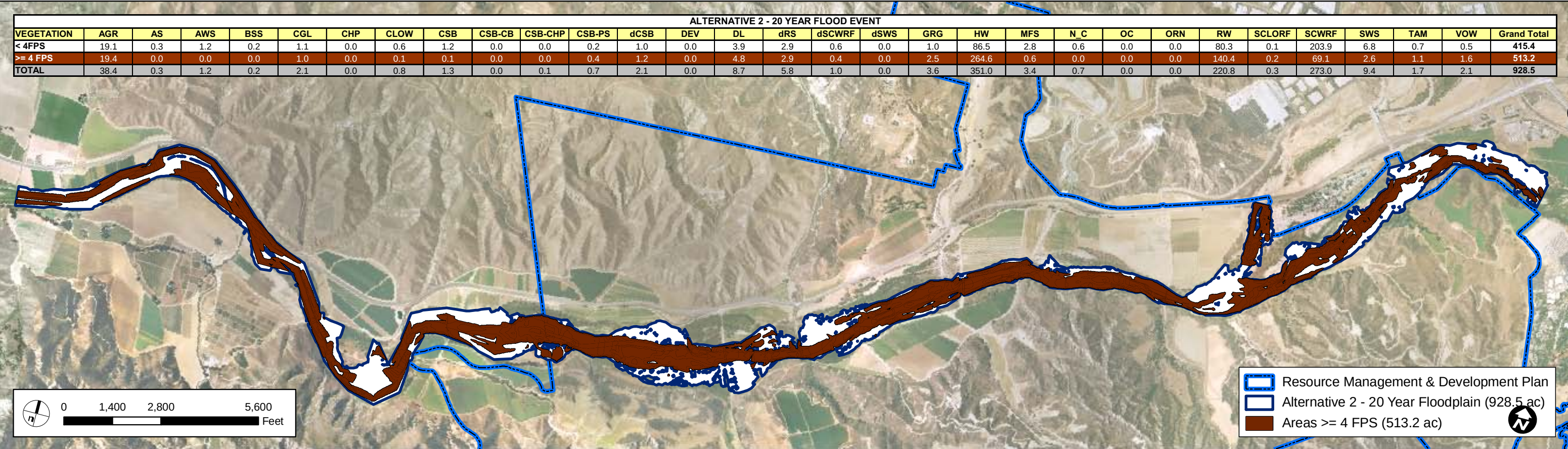
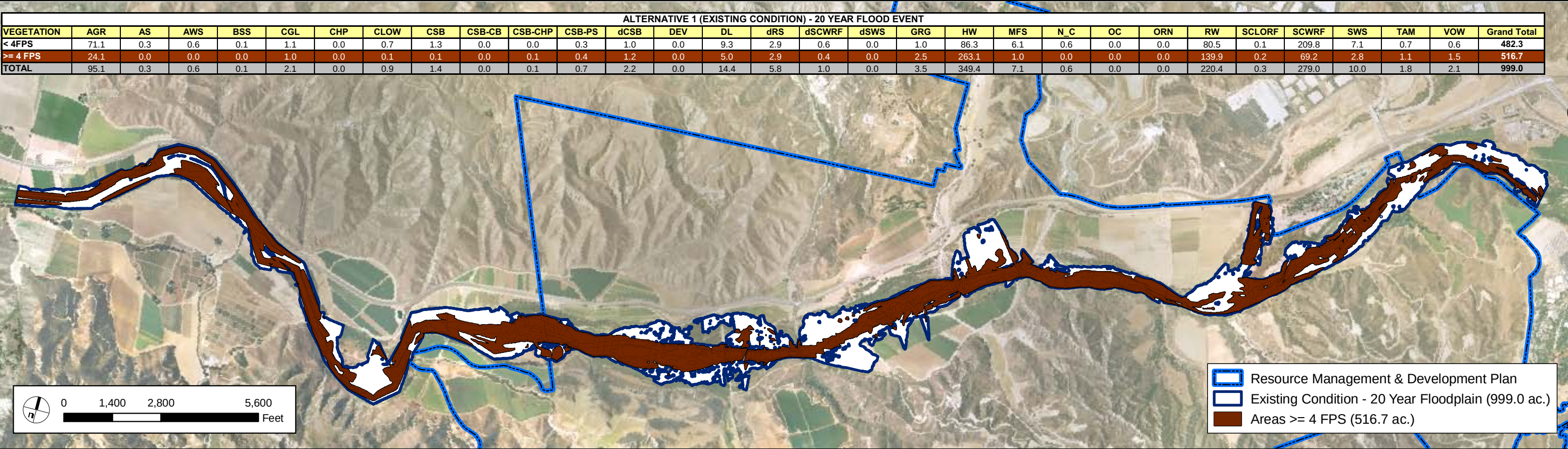
FIGURE 1.1-2

EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) - 5 YEAR FLOOD EVENT



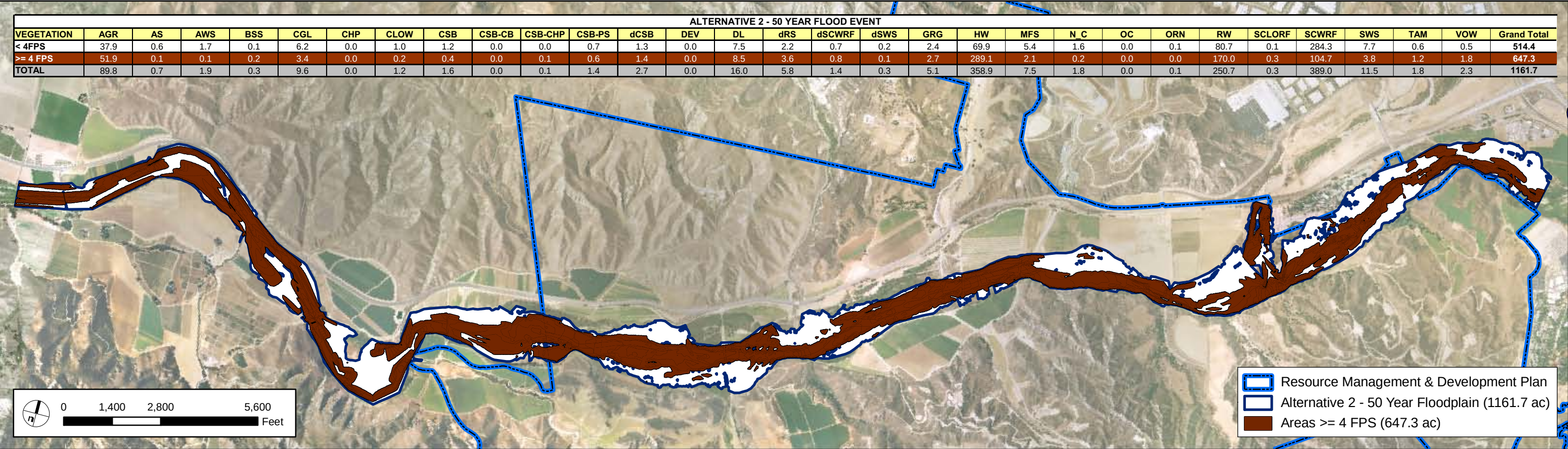
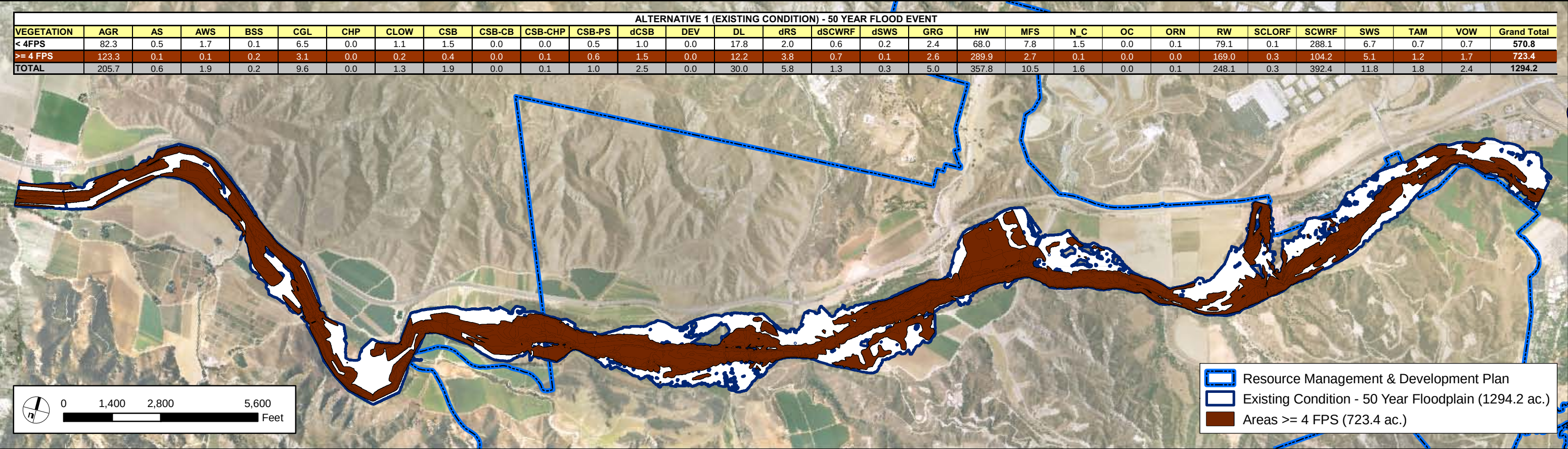
SOURCE: PACE 2008

FIGURE 1.1-3
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) - 10 YEAR FLOOD EVENT



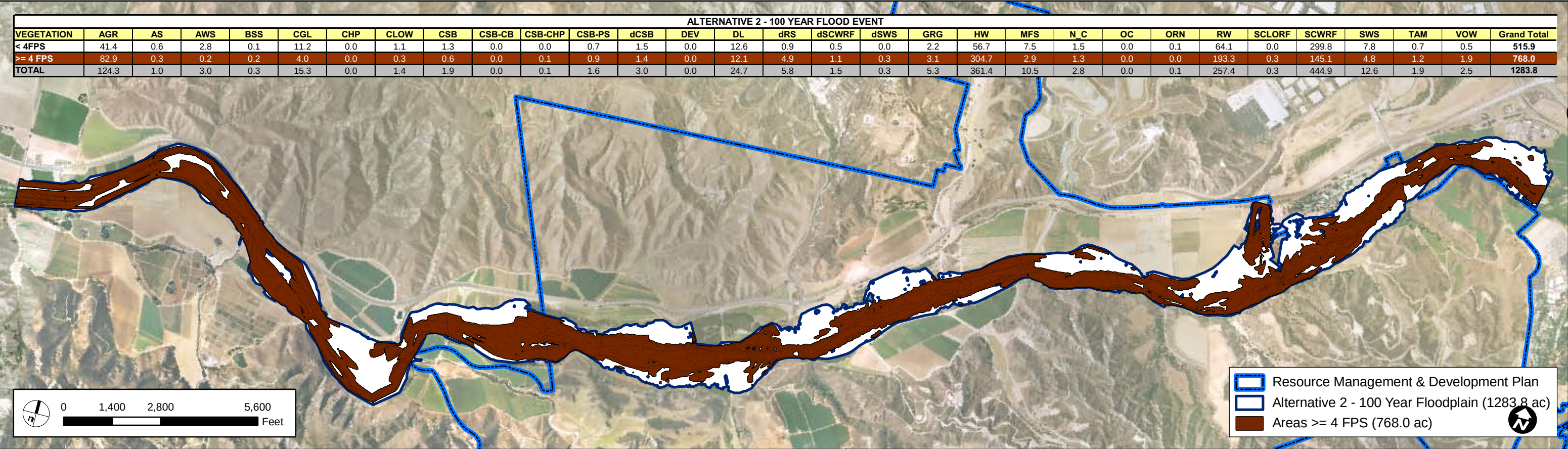
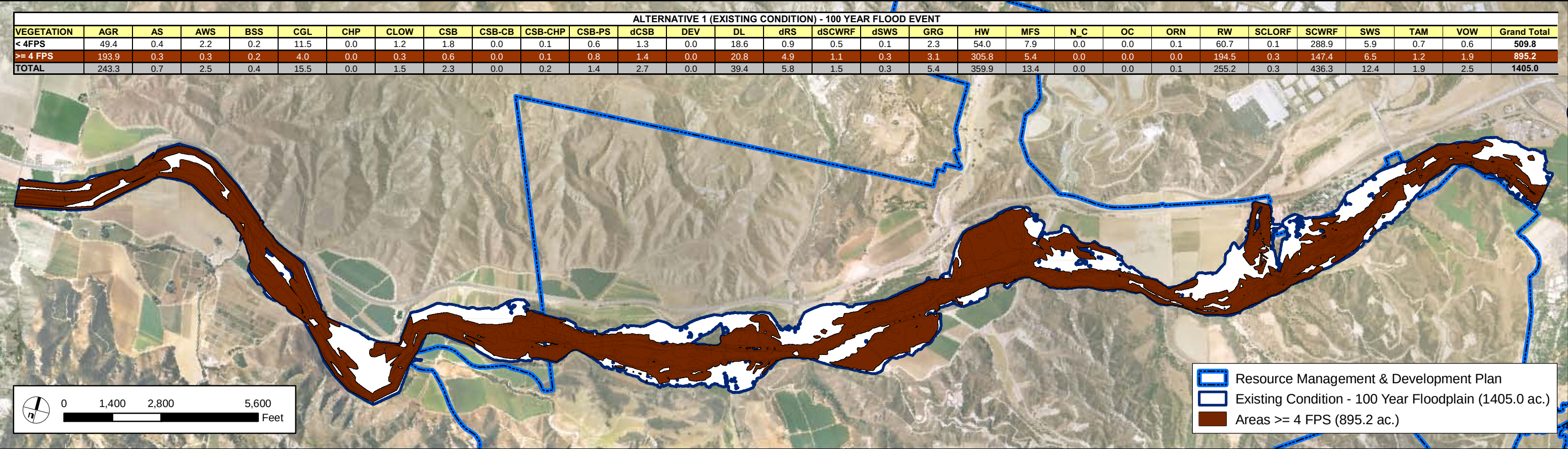
SOURCE: PACE 2008

FIGURE 1.1-4
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) - 20 YEAR FLOOD EVENT



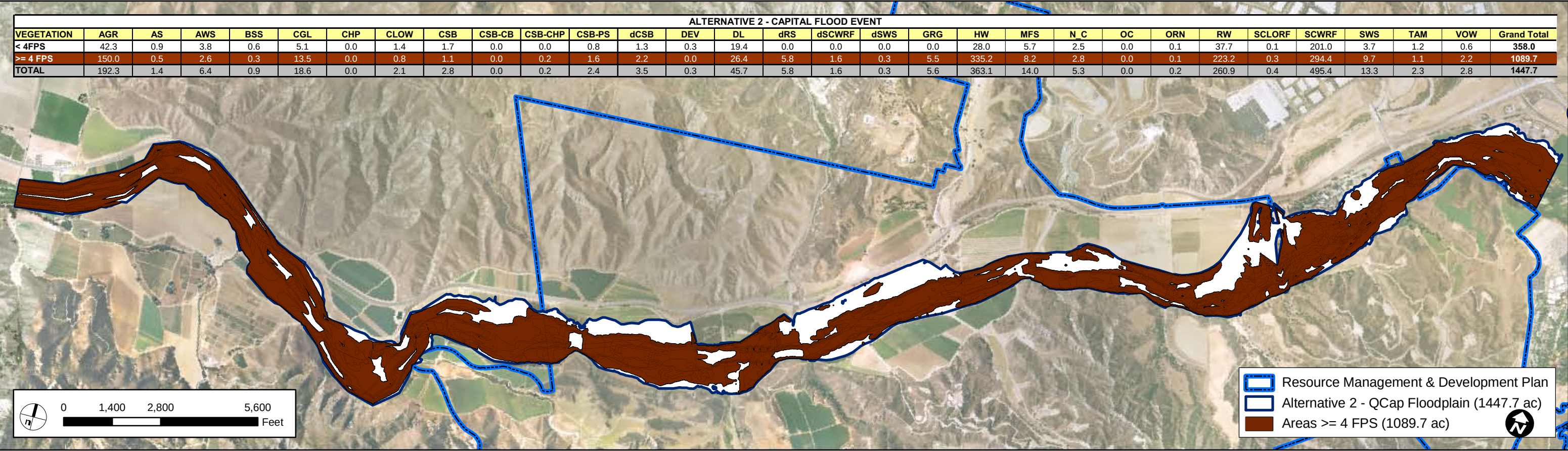
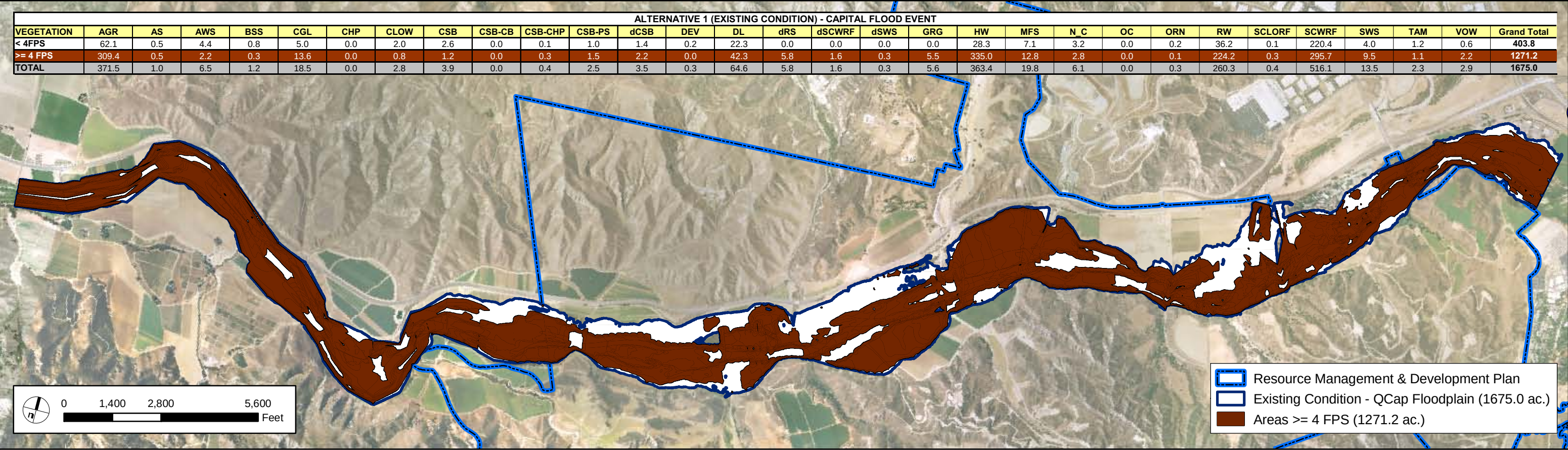
SOURCE: PACE 2008

FIGURE 1.1-5
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) - 50 YEAR FLOOD EVENT



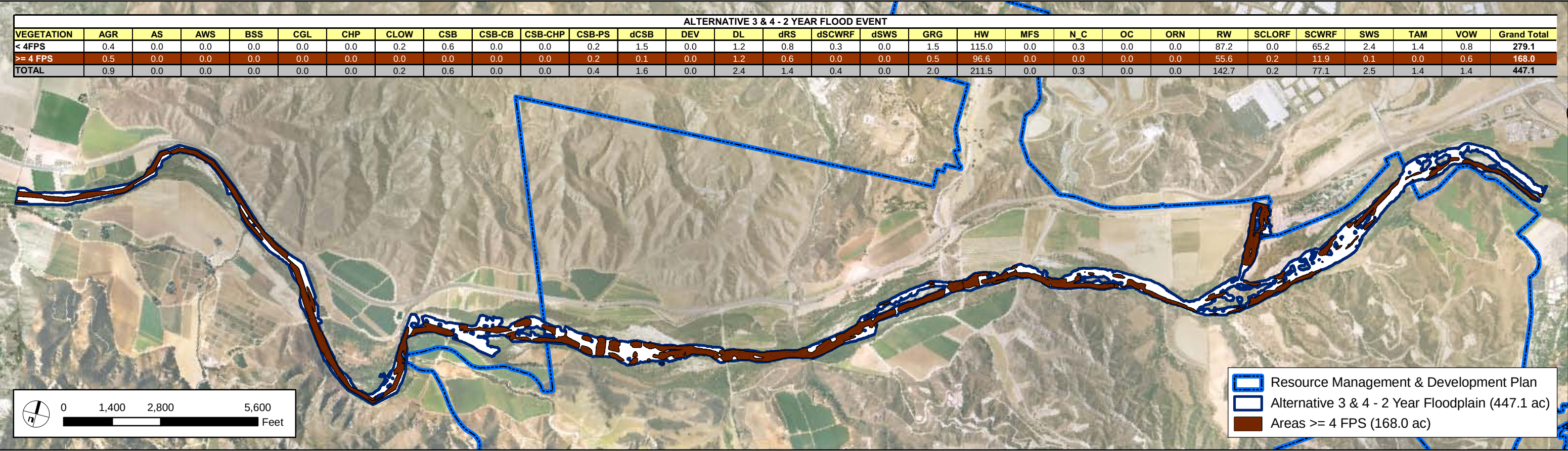
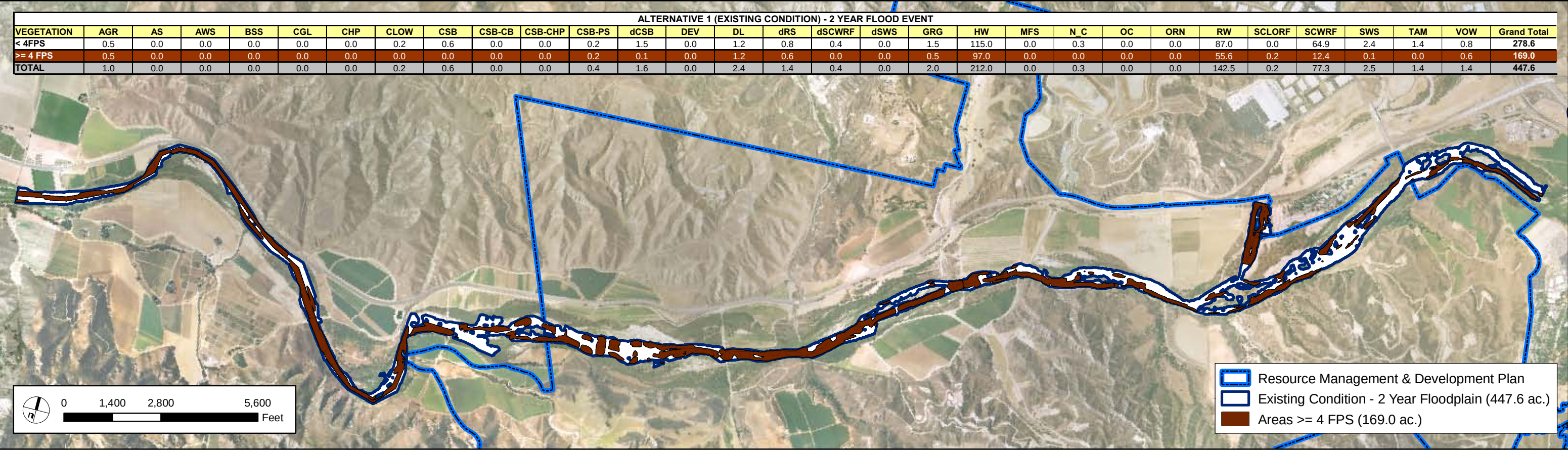
SOURCE: PACE 2008

FIGURE 1.1-6
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) 100 YEAR FLOOD EVENT



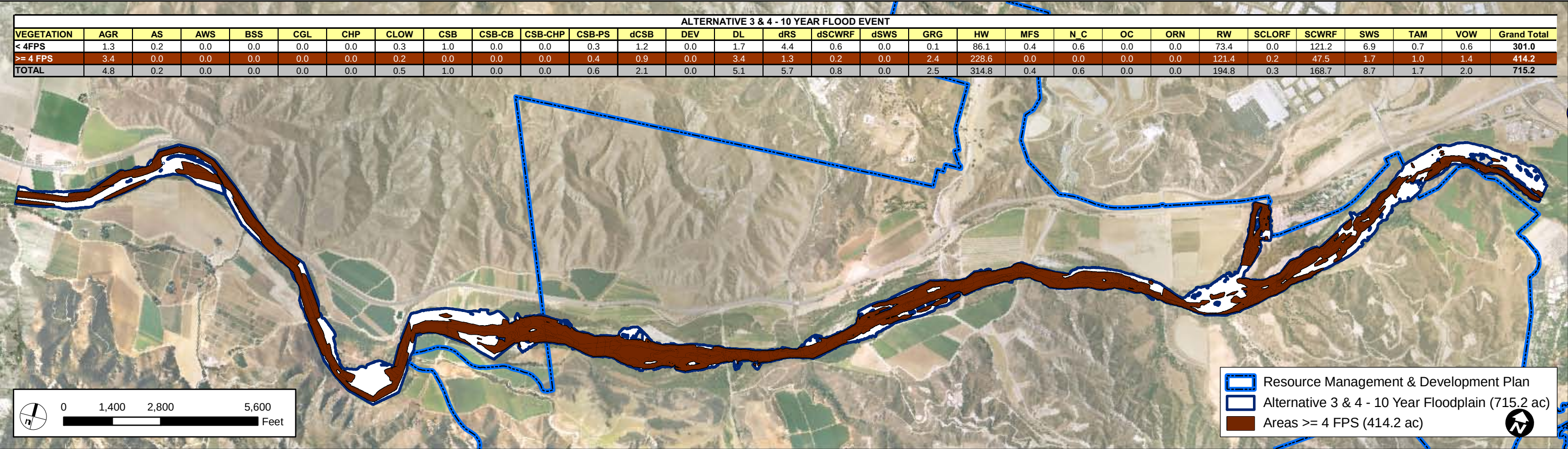
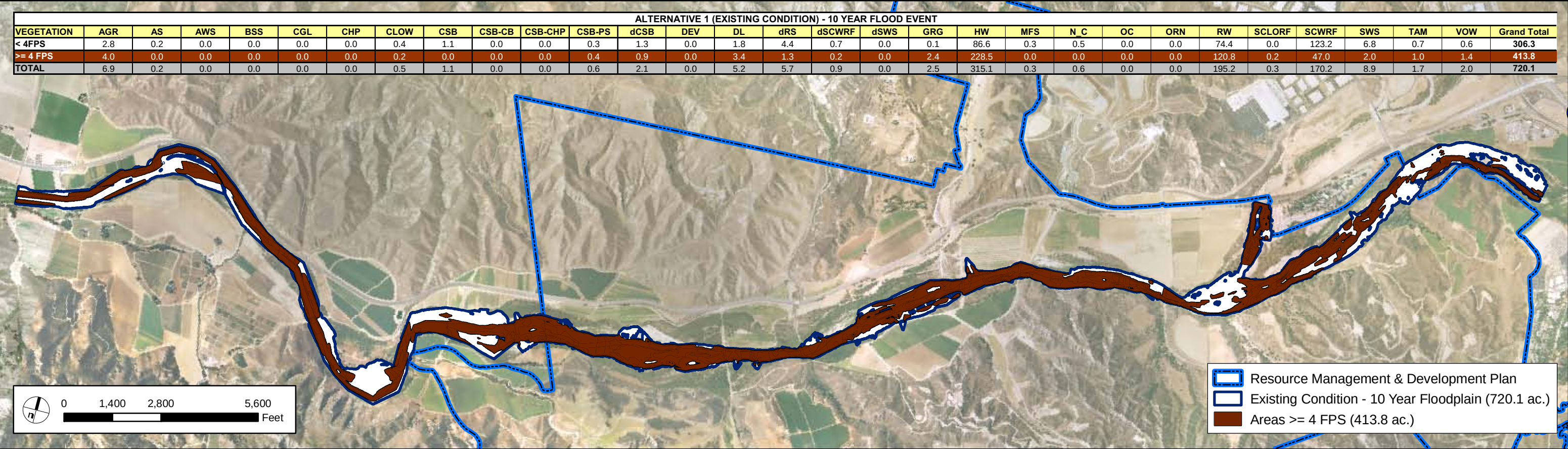
SOURCE: PACE 2008

FIGURE 1.1-7
EXISTING CONDITION AND
ALTERNATIVE 2 (PROPOSED CONDITION) - QCAP FLOOD EVENT



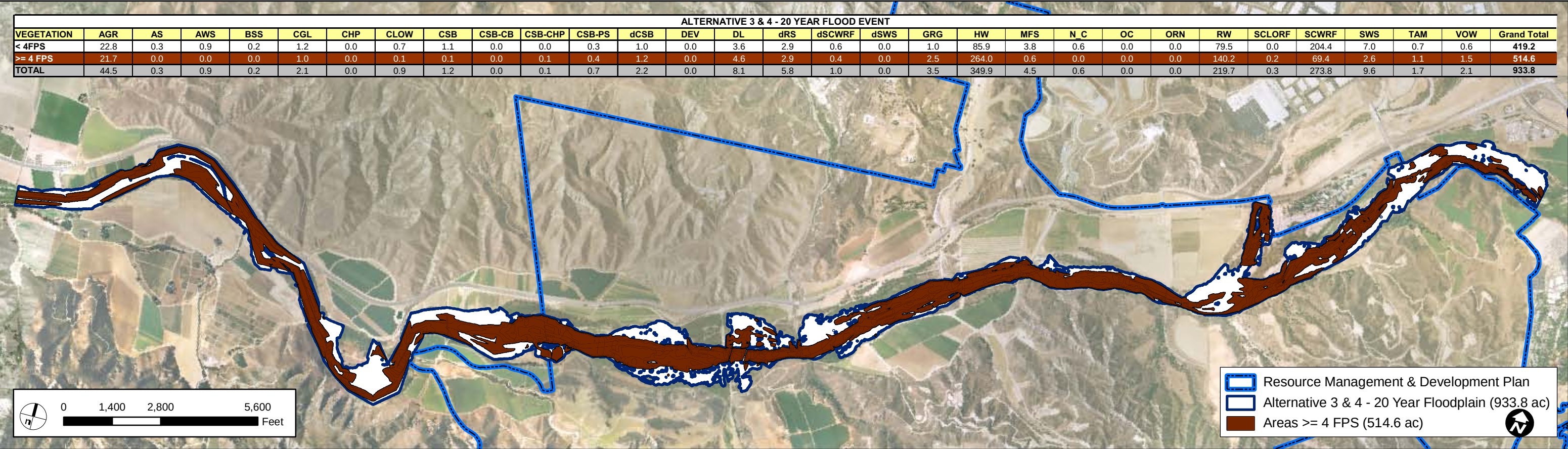
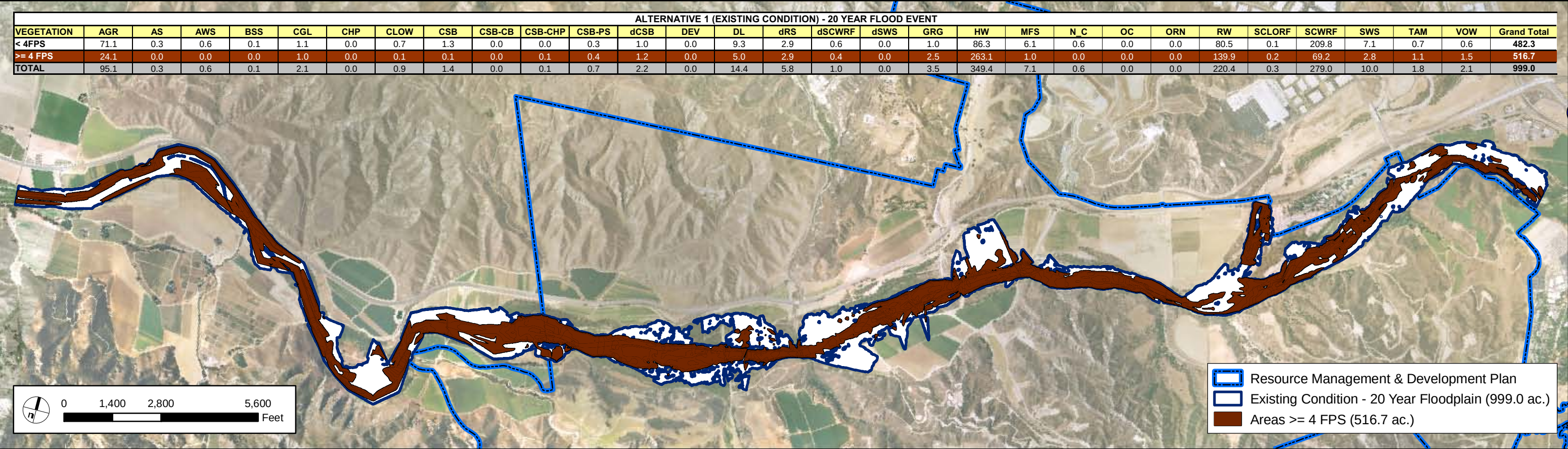
SOURCE: PACE 2008

FIGURE 1.2-1
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - 2 YEAR FLOOD EVENT



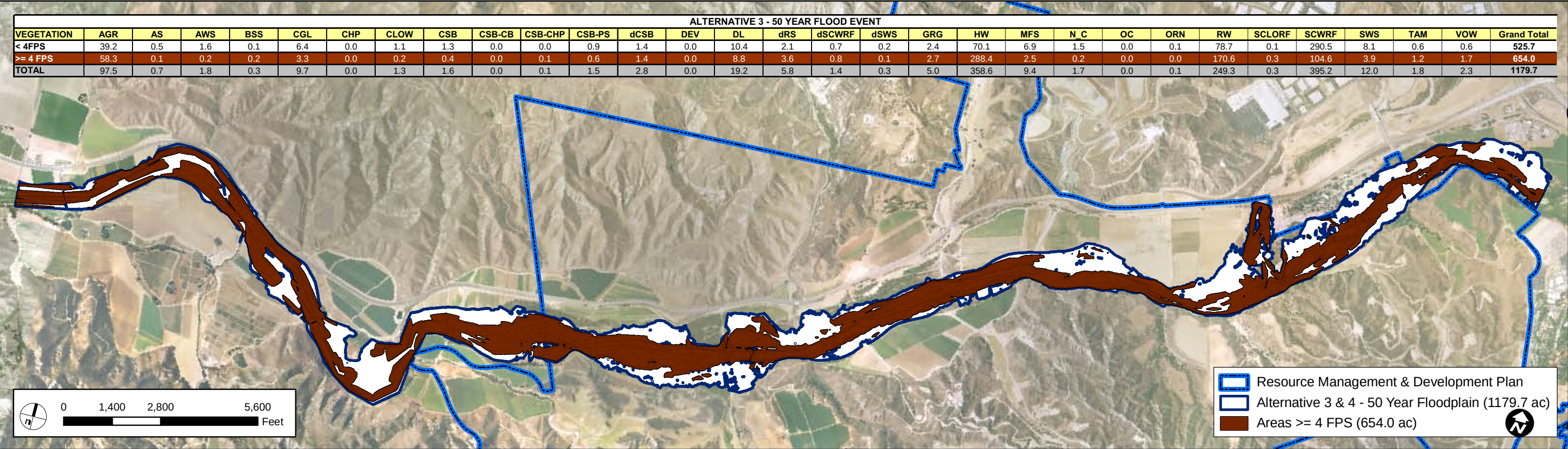
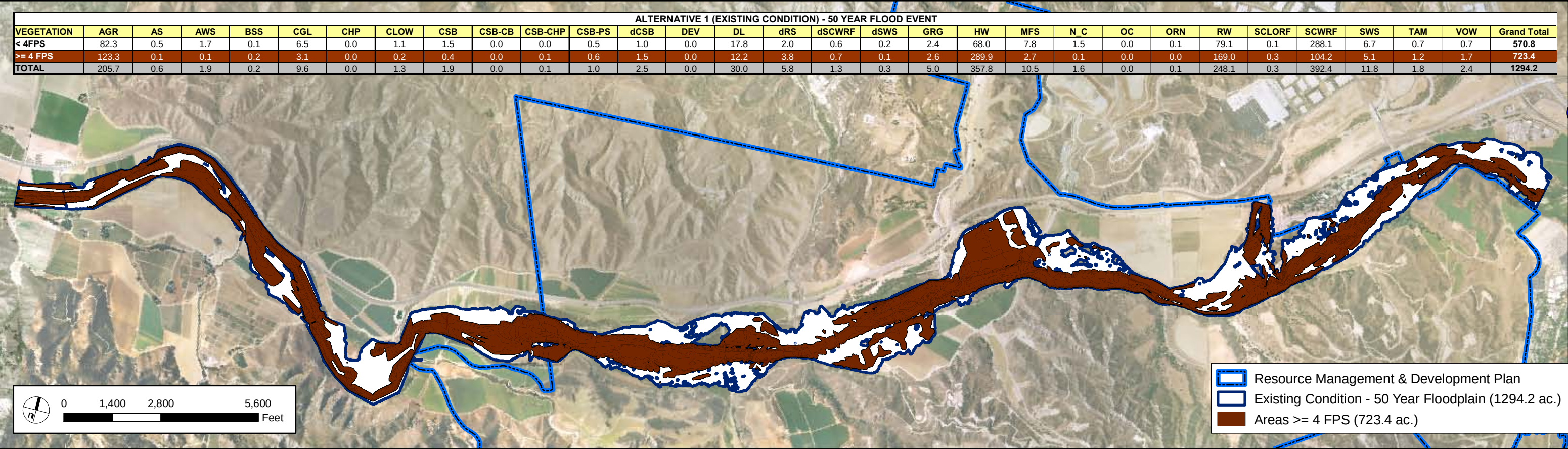
SOURCE: PACE 2008

FIGURE 1.2-3
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - 10 YEAR FLOOD EVENT



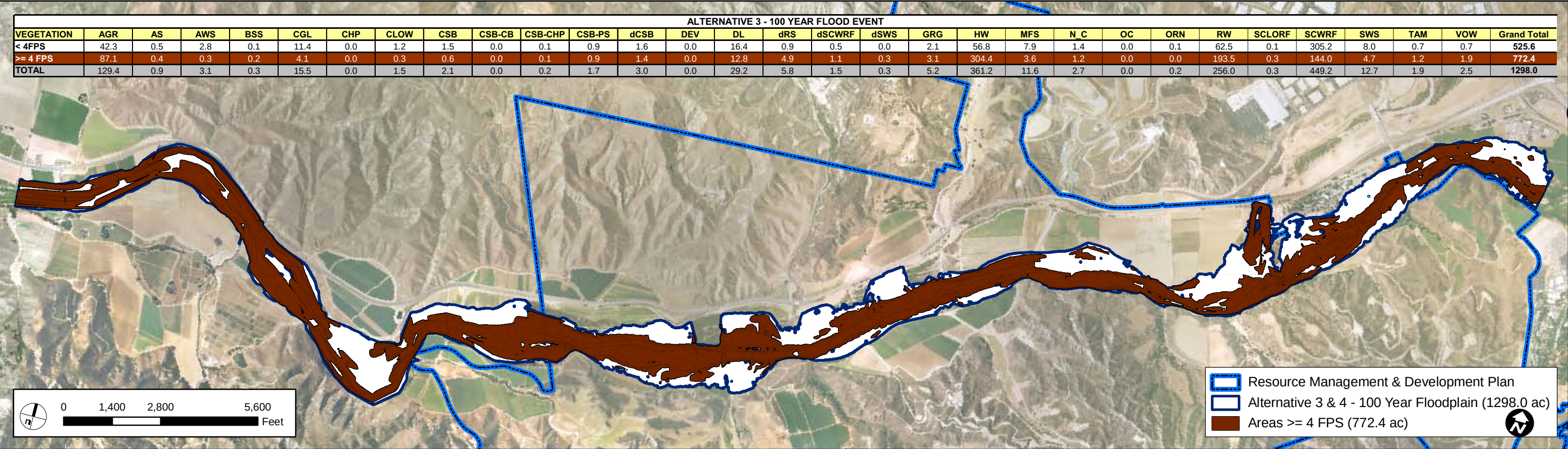
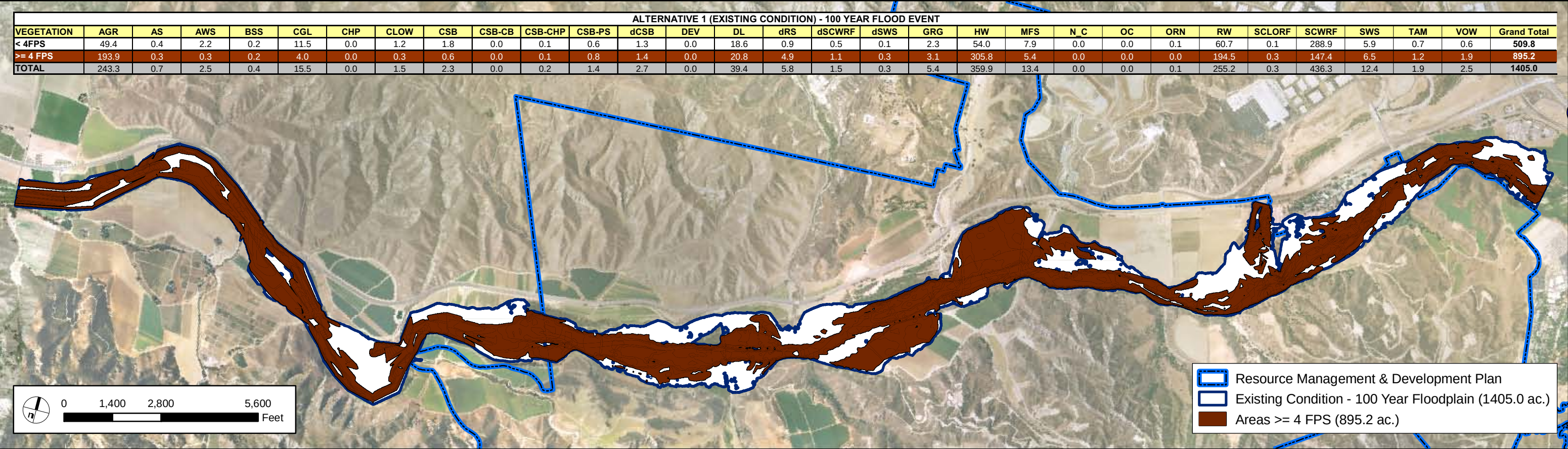
SOURCE: PACE 2008

FIGURE 1.2-4
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - 20 YEAR FLOOD EVENT



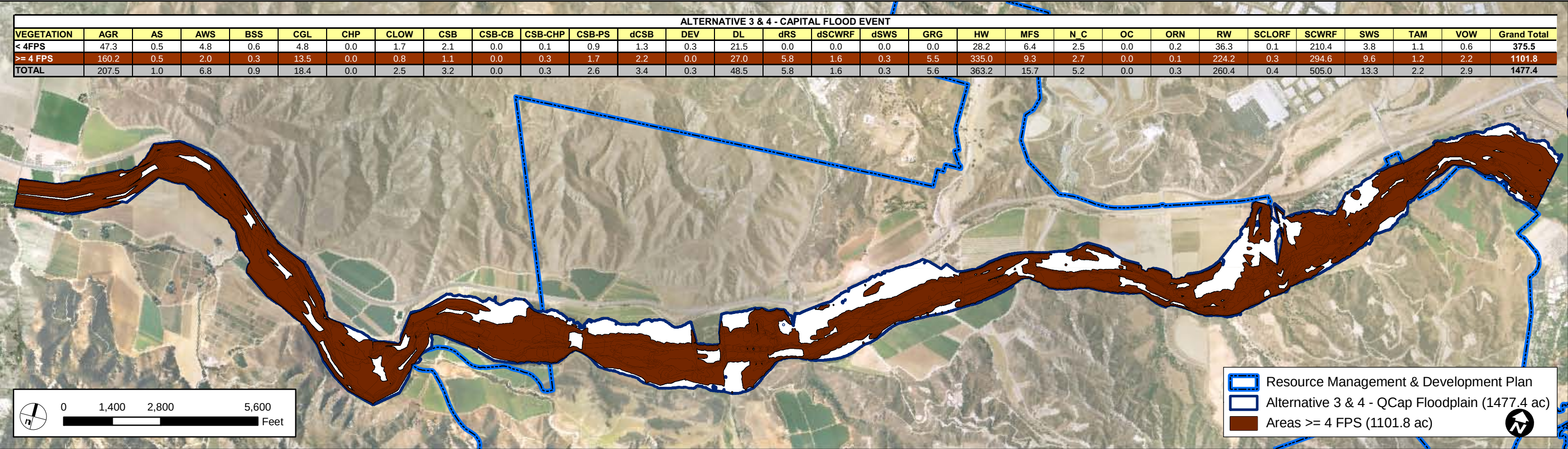
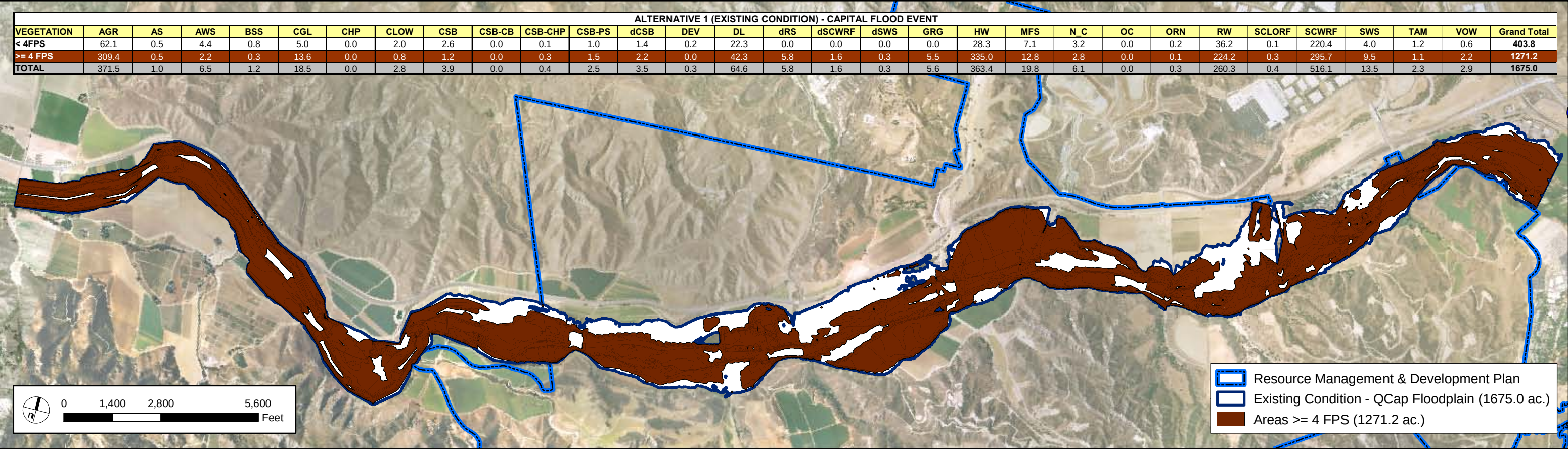
SOURCE: PACE 2008

FIGURE 1.2-5
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - 50 YEAR FLOOD EVENT



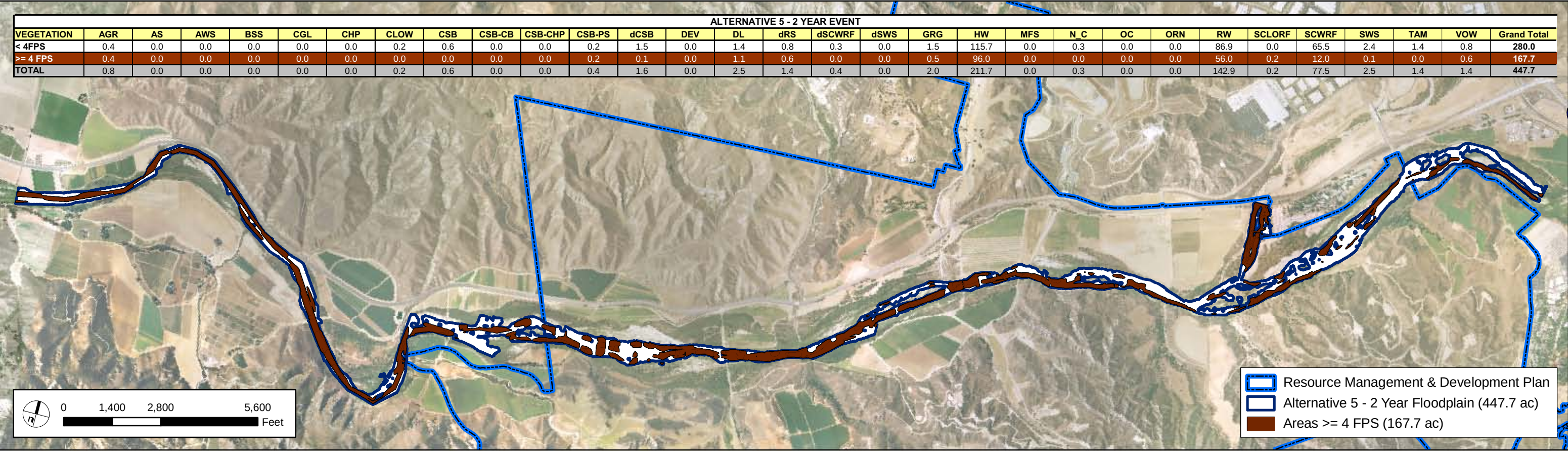
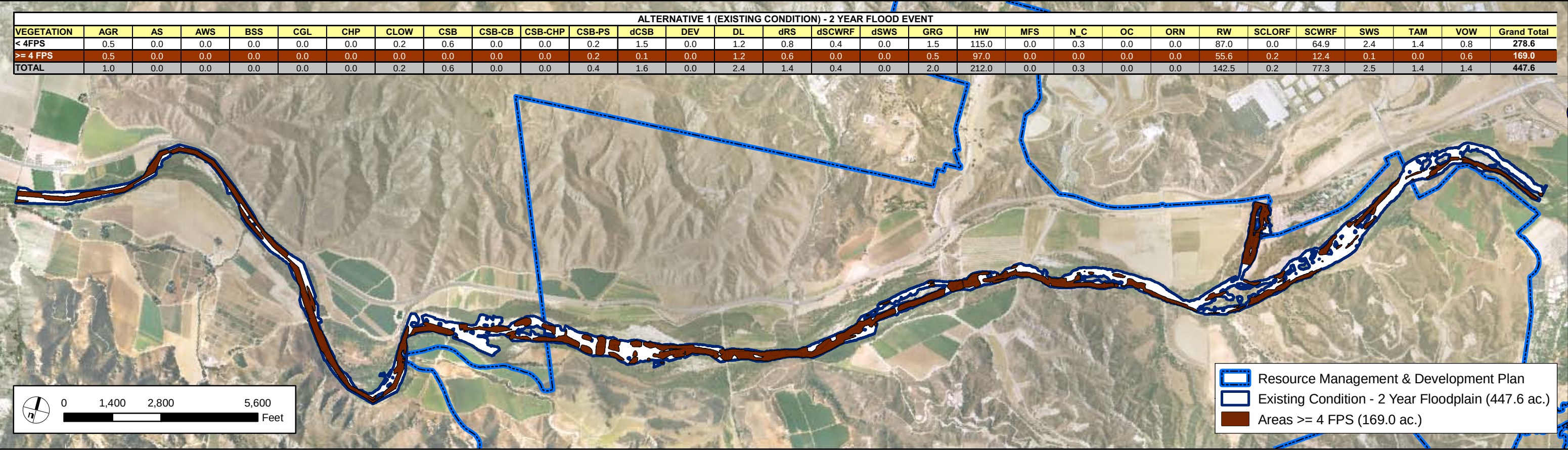
SOURCE: PACE 2008

FIGURE 1.2-6
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - 100 YEAR FLOOD EVENT



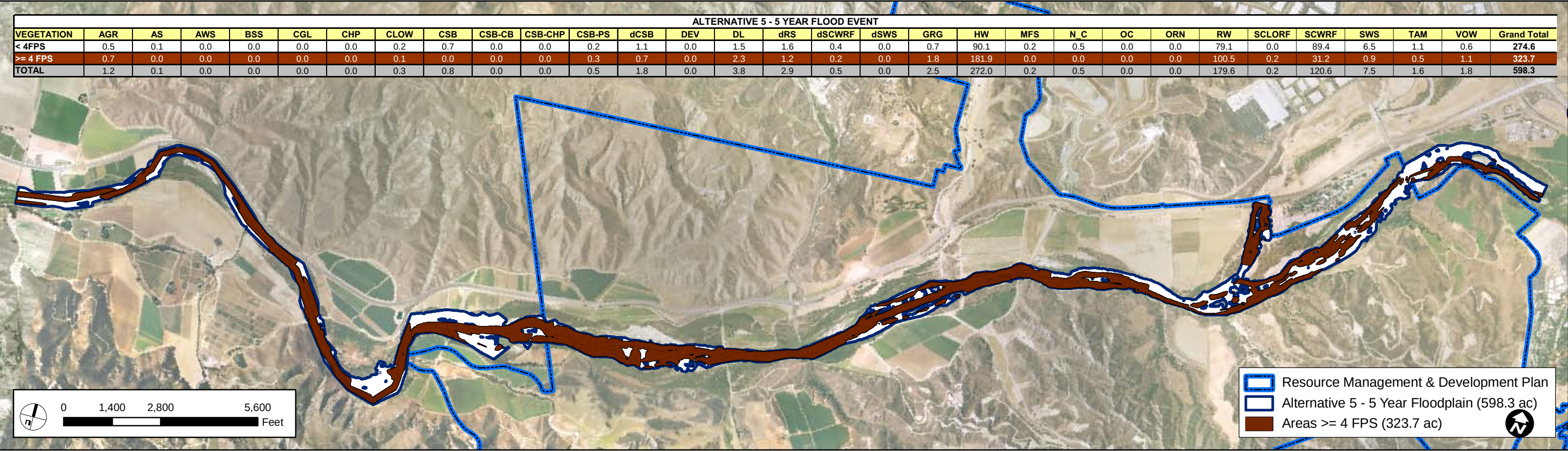
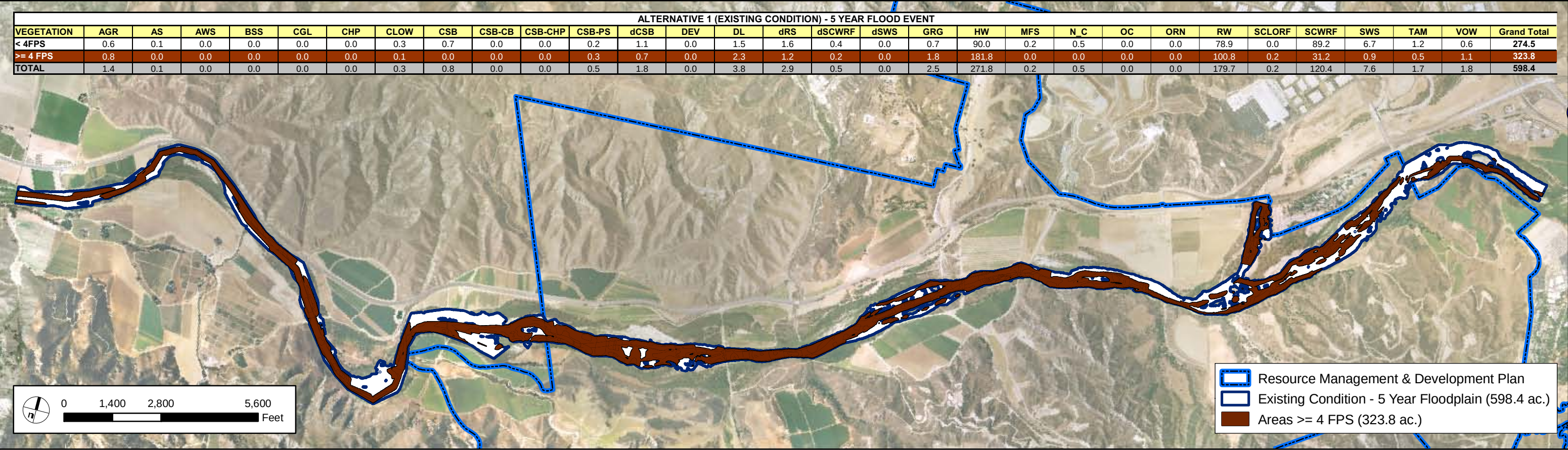
SOURCE: PACE 2008

FIGURE 1.2-7
EXISTING CONDITION AND
ALTERNATIVE 3 & 4 - QCAP FLOOD EVENT



SOURCE: PACE 2008

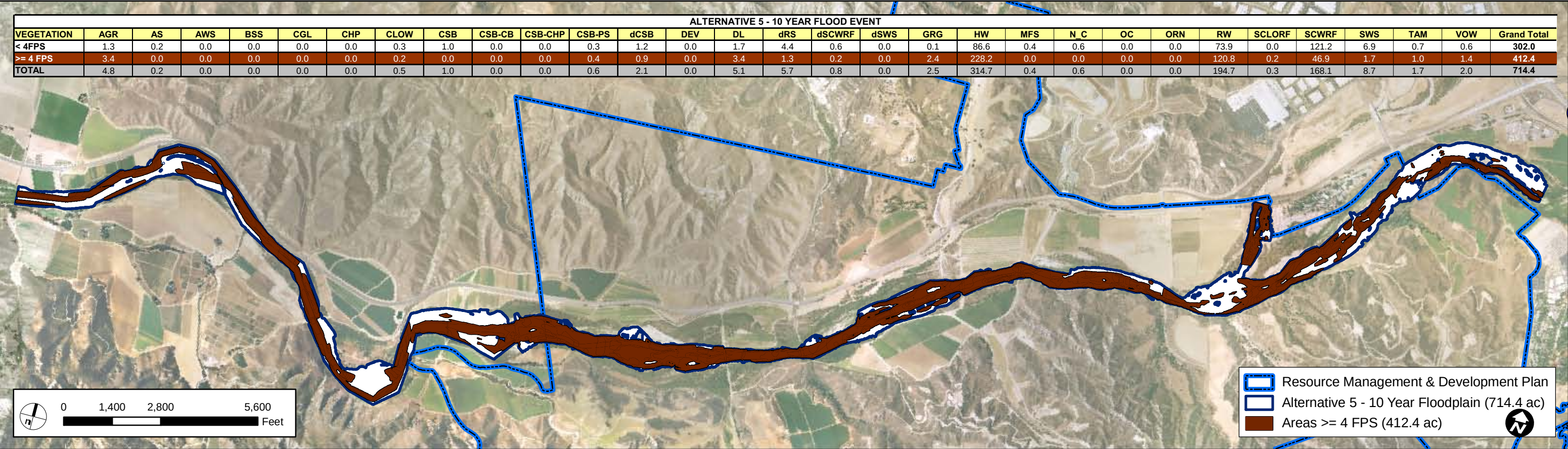
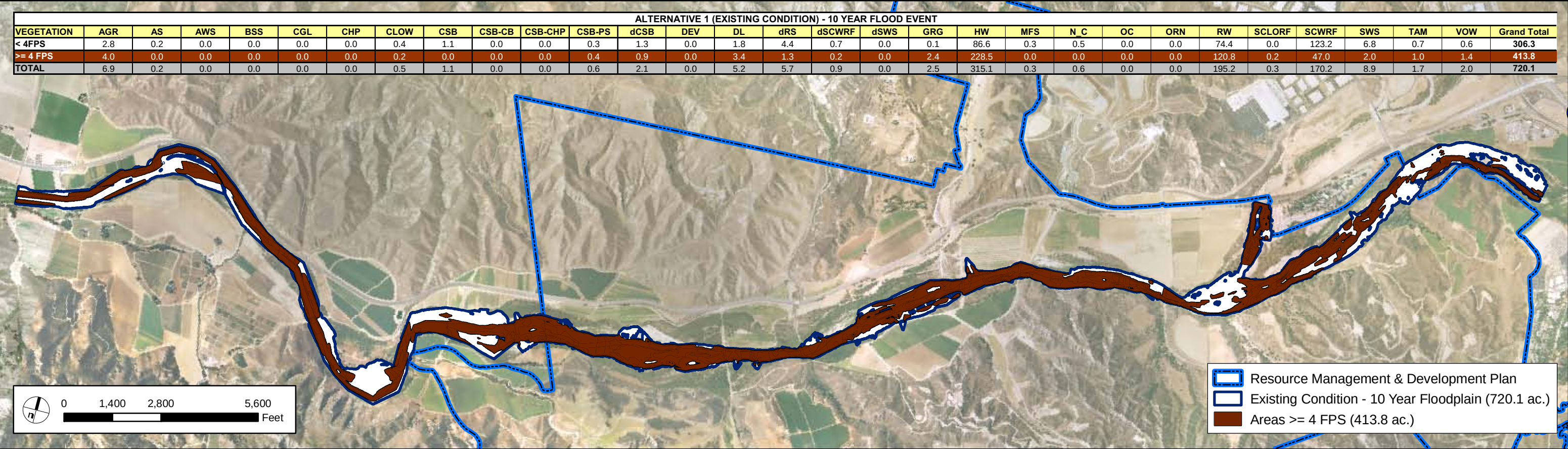
FIGURE 1.3-1
EXISTING CONDITION AND
ALTERNATIVE 5 - 2 YEAR FLOOD EVENT



SOURCE: PACE 2008

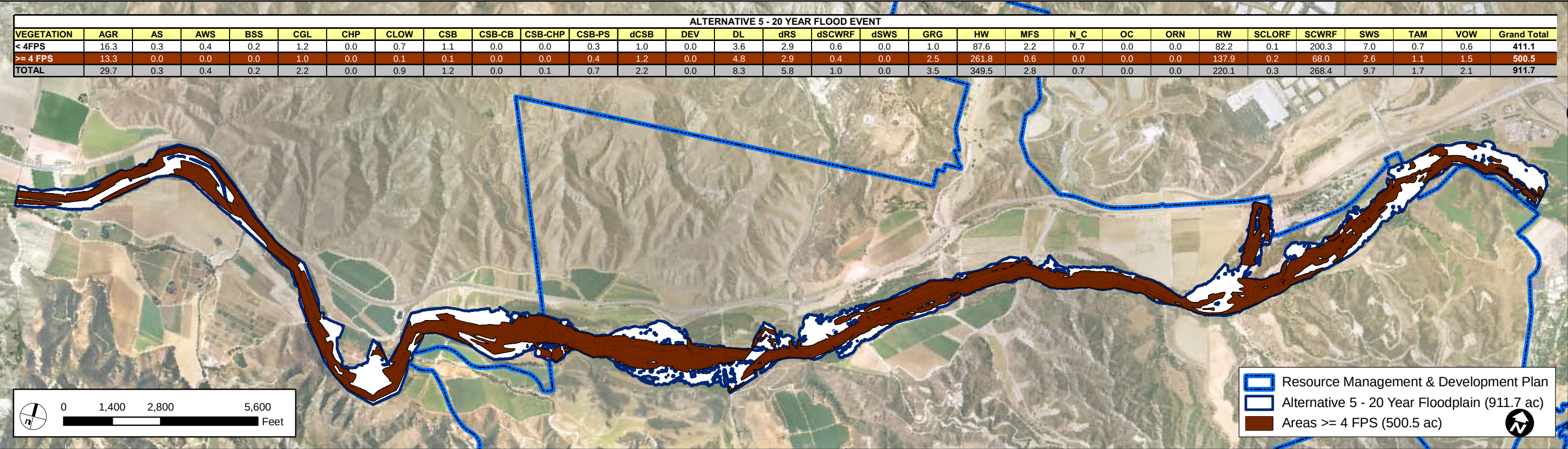
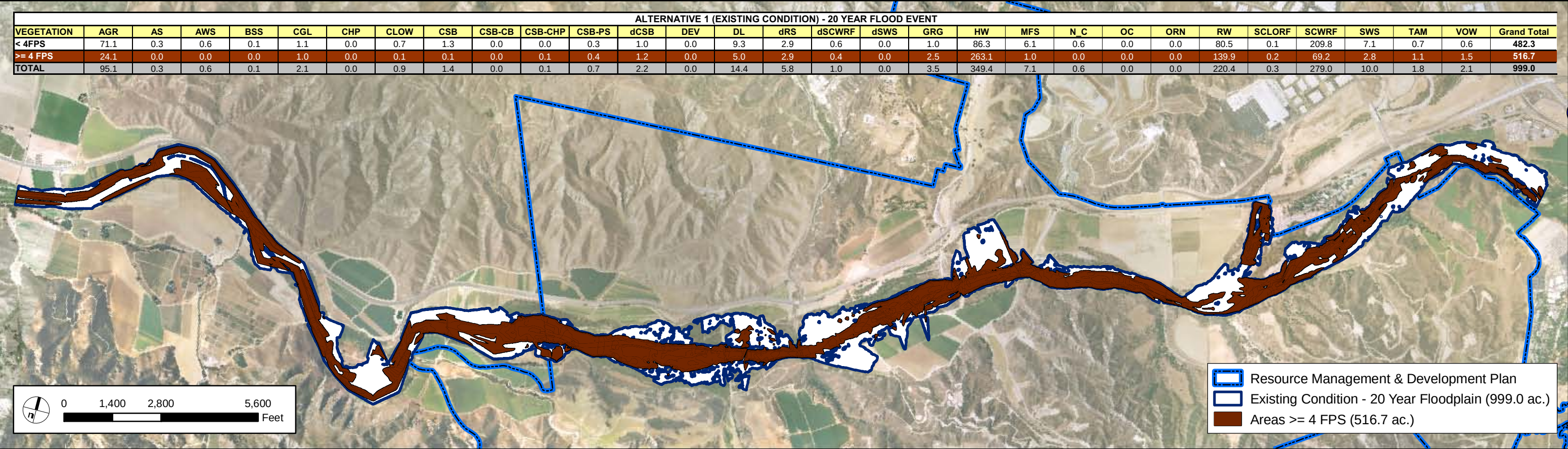
FIGURE 1.3-2
EXISTING CONDITION AND
ALTERNATIVE 5 - 5 YEAR FLOOD EVENT

P:\8238E\GIS\mxds\EIR_2008\RiparianScour\8238E_RiparianScourVelocityAnalysisAlt5_5Yr_082108.mxd



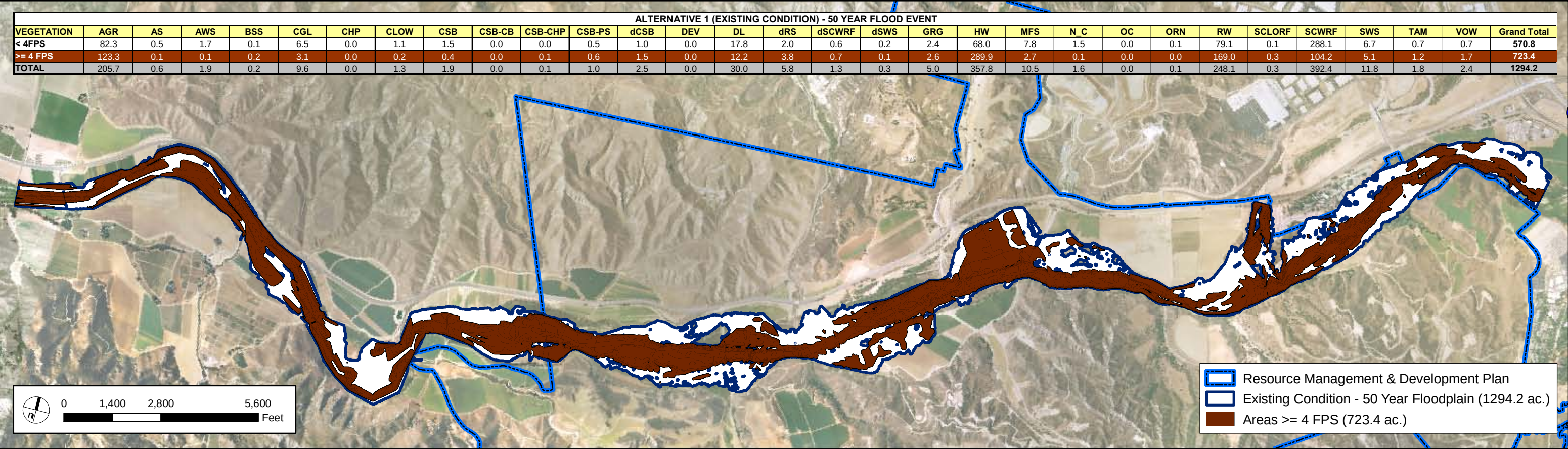
SOURCE: PACE 2008

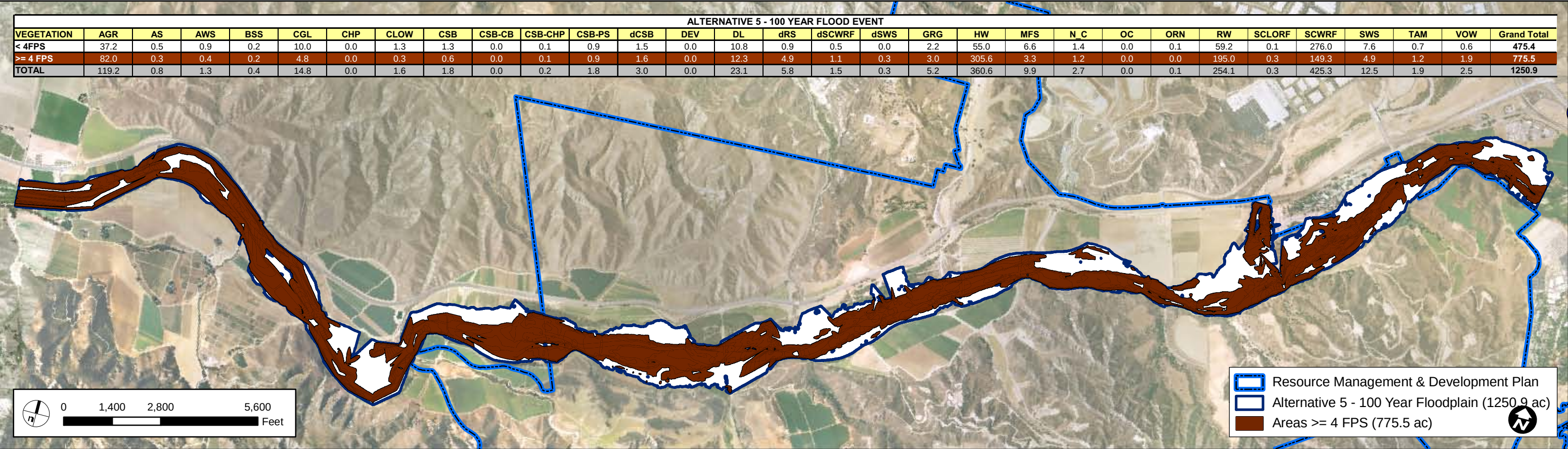
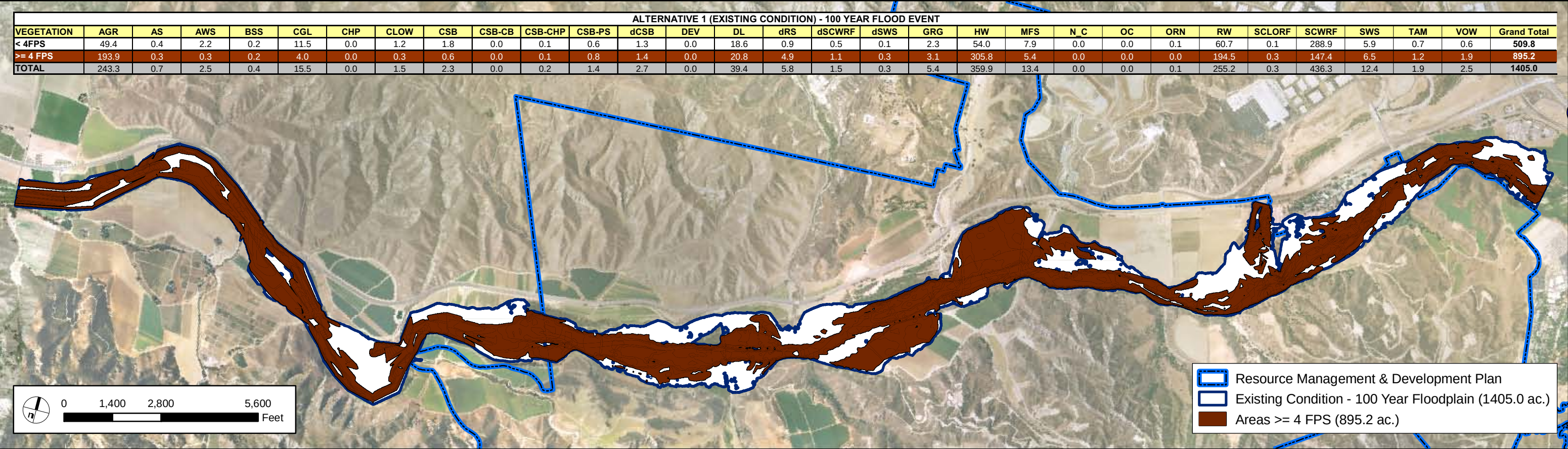
FIGURE 1.3-3
EXISTING CONDITION AND
ALTERNATIVE 5 - 10 YEAR FLOOD EVENT



SOURCE: PACE 2008

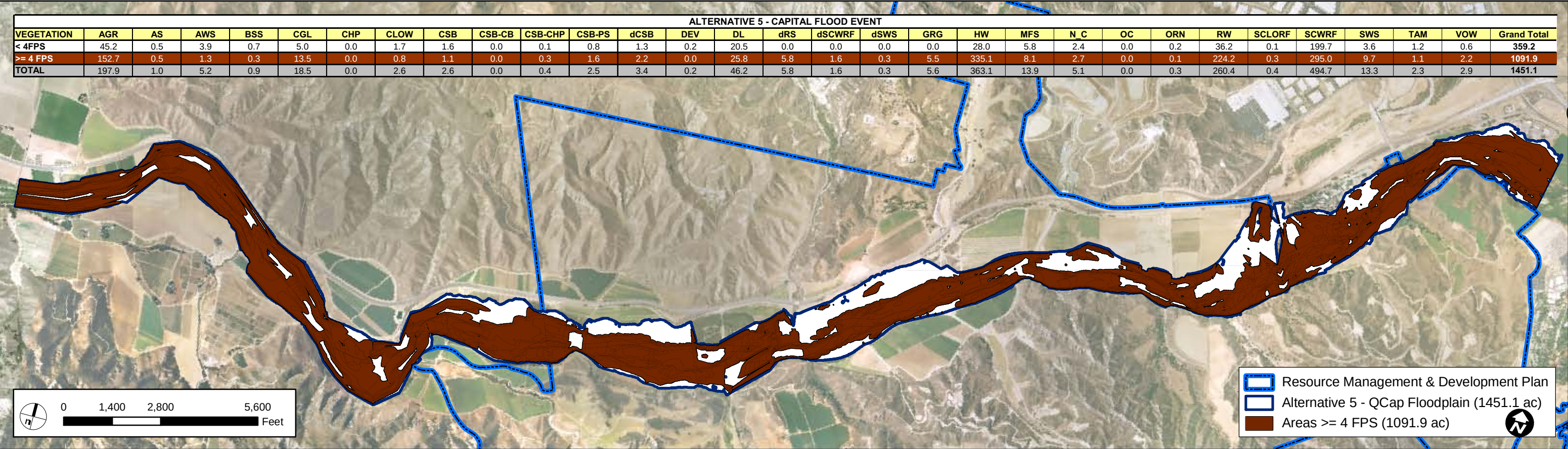
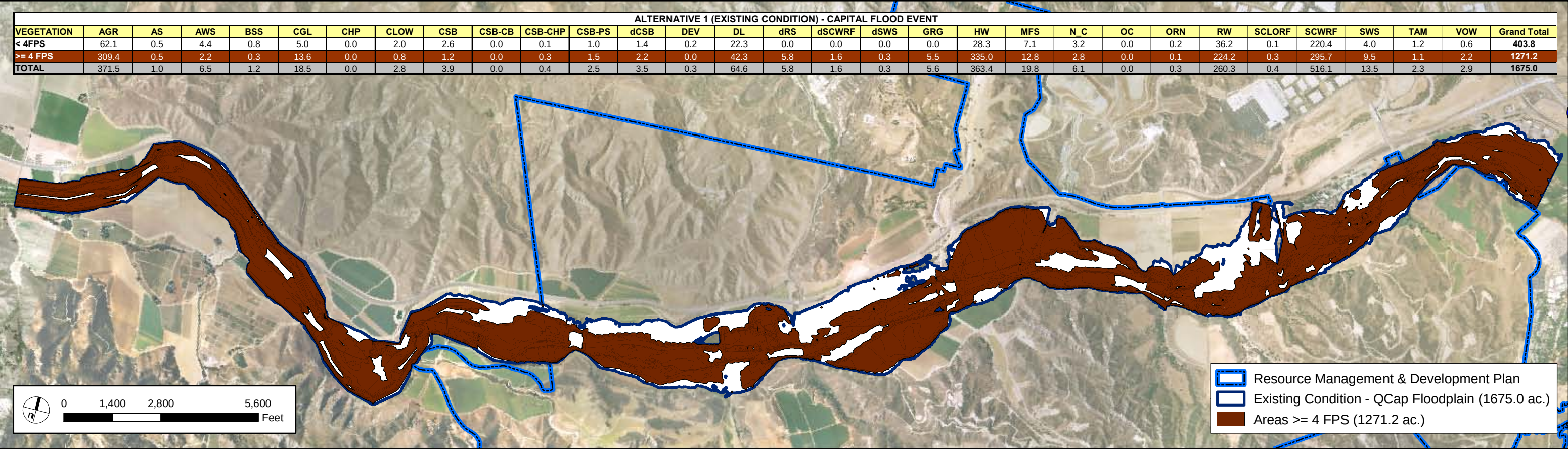
FIGURE 1.3-4
EXISTING CONDITION AND
ALTERNATIVE 5 - 20 YEAR FLOOD EVENT





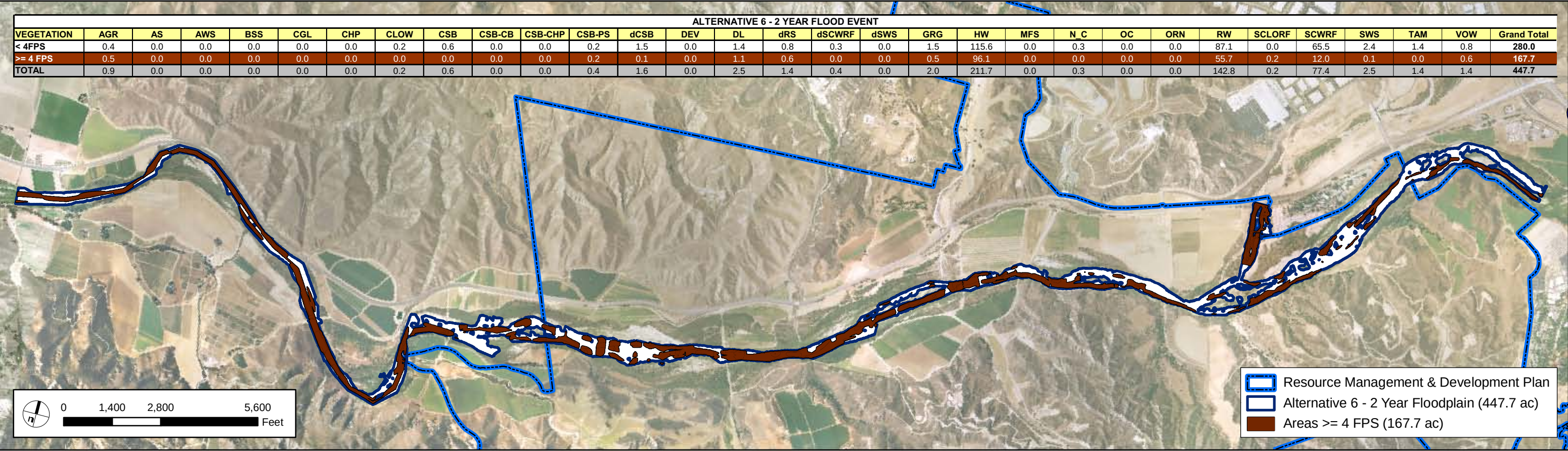
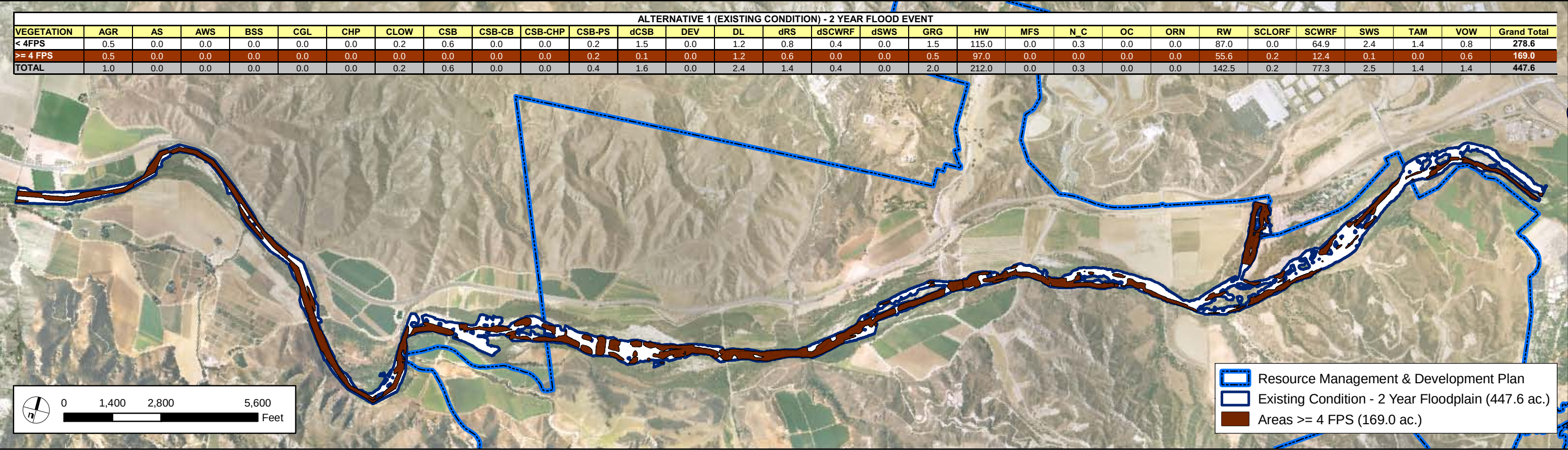
SOURCE: PACE 2008

FIGURE 1.3-6
EXISTING CONDITION AND
ALTERNATIVE 5 - 100 YEAR FLOOD EVENT



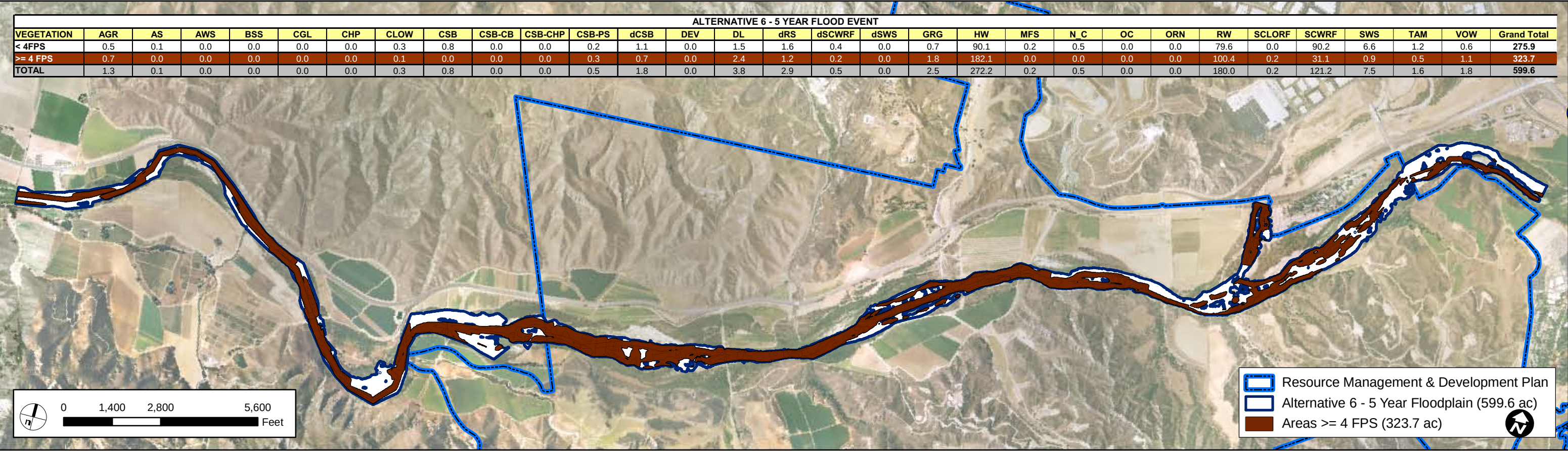
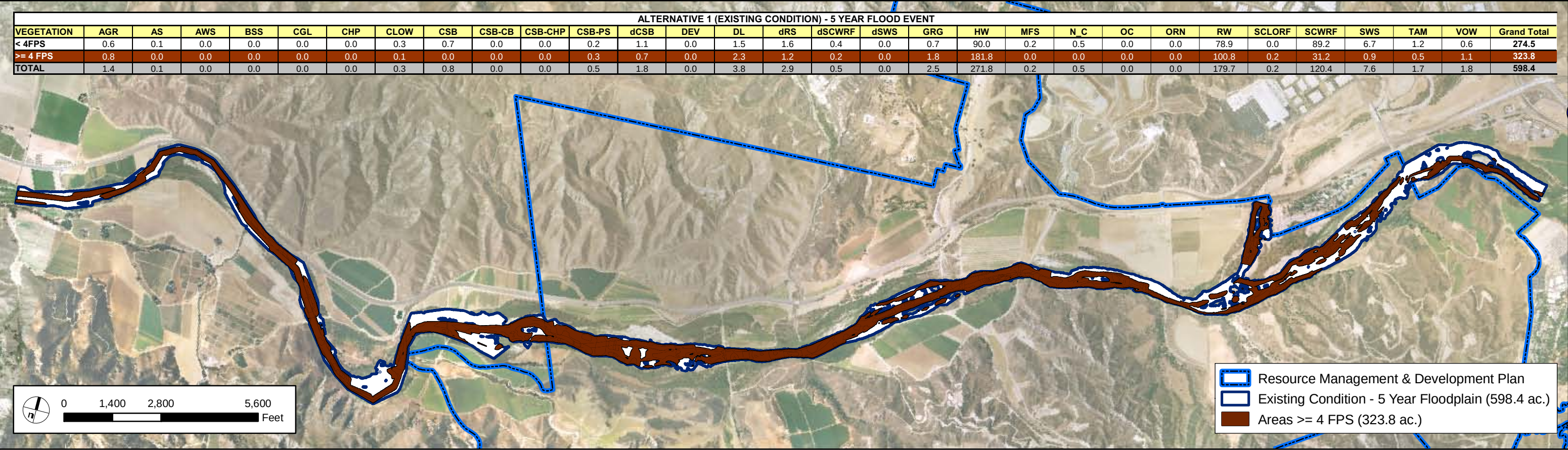
SOURCE: PACE 2008

FIGURE 1.3-7
EXISTING CONDITION AND
ALTERNATIVE 5 - QCAP FLOOD EVENT



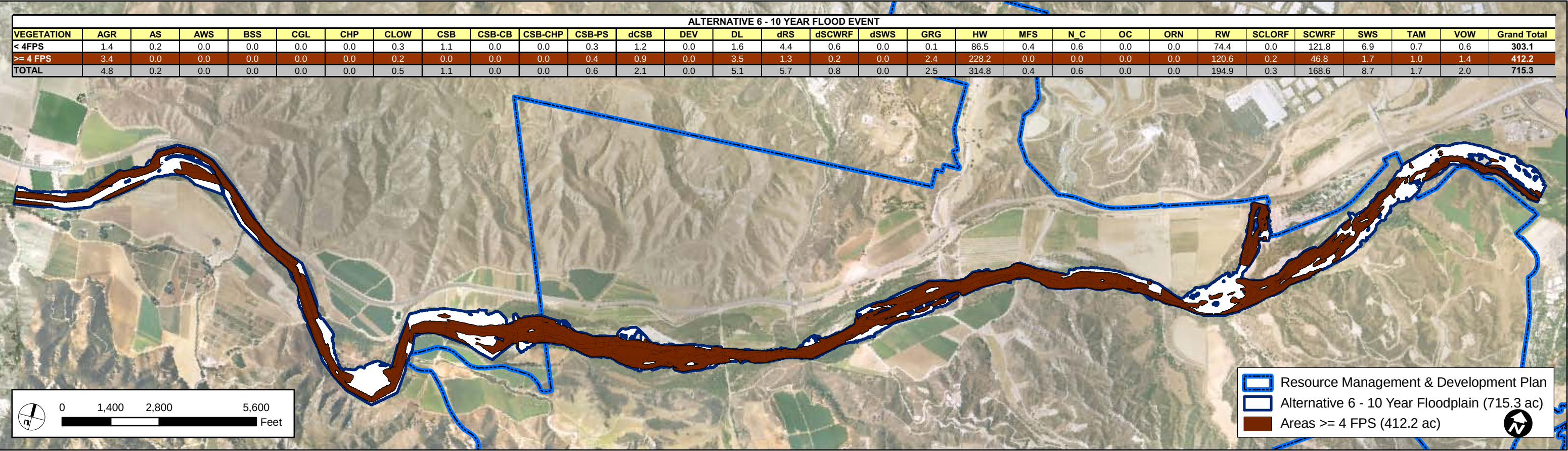
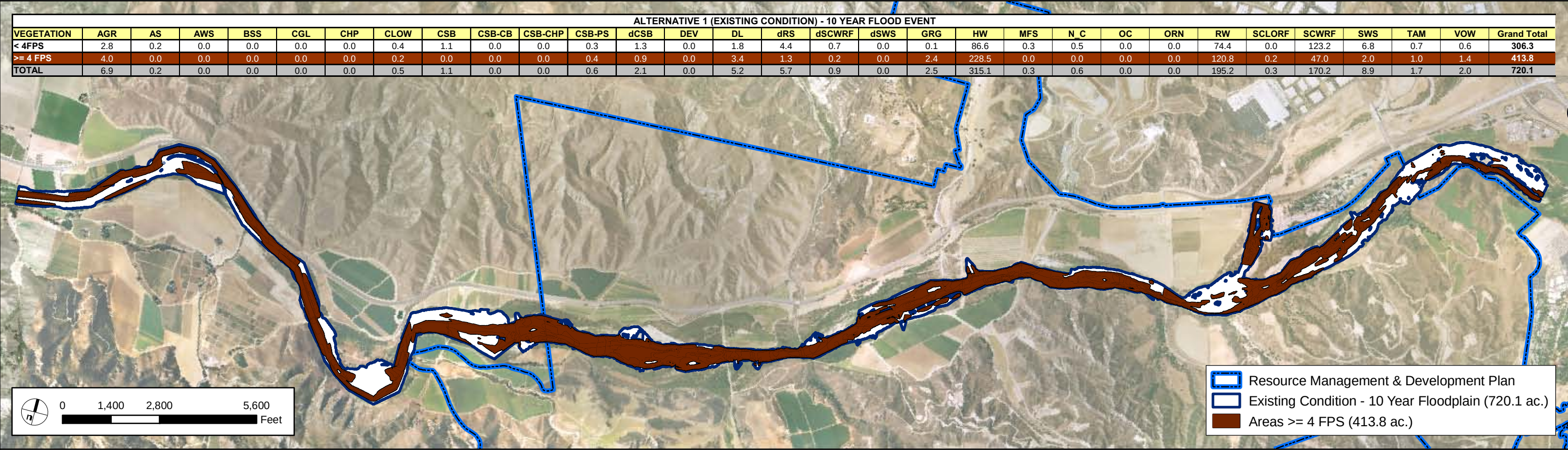
SOURCE: PACE 2008

FIGURE 1.4-1
EXISTING CONDITION AND
ALTERNATIVE 6 - 2 YEAR FLOOD EVENT



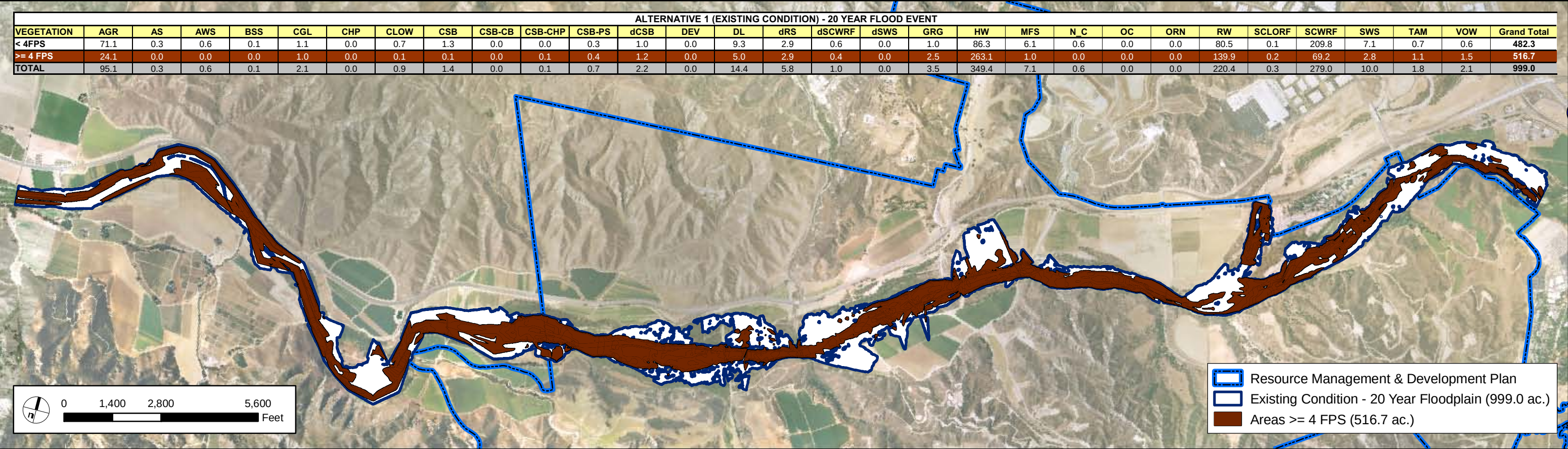
SOURCE: PACE 2008

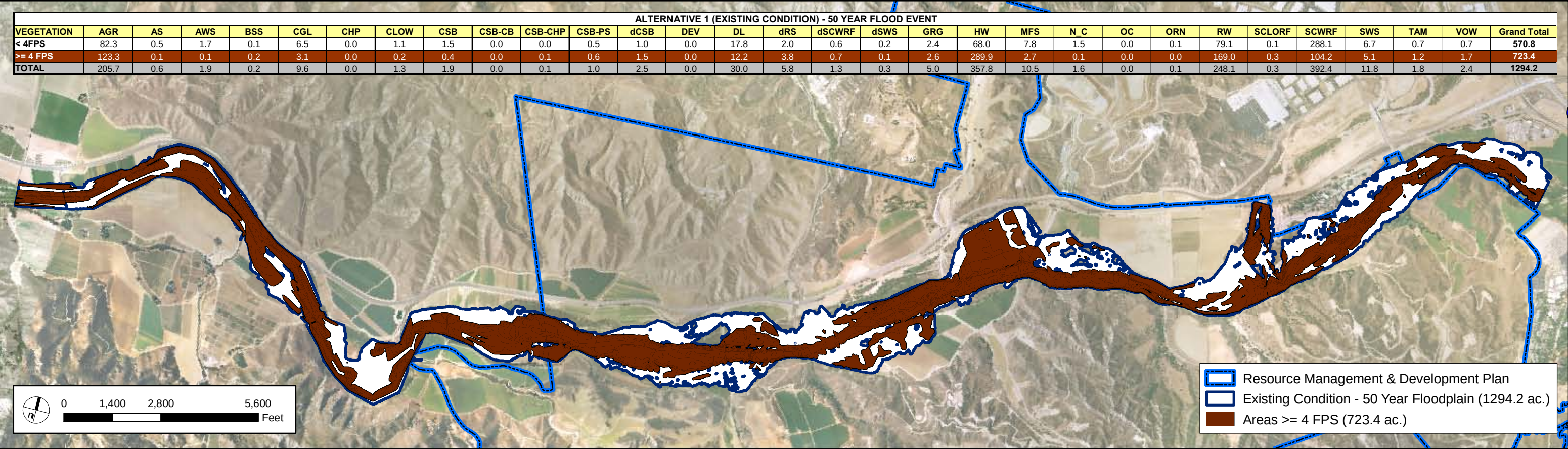
FIGURE 1.4-2
EXISTING CONDITION AND
ALTERNATIVE 6 - 5 YEAR FLOOD EVENT

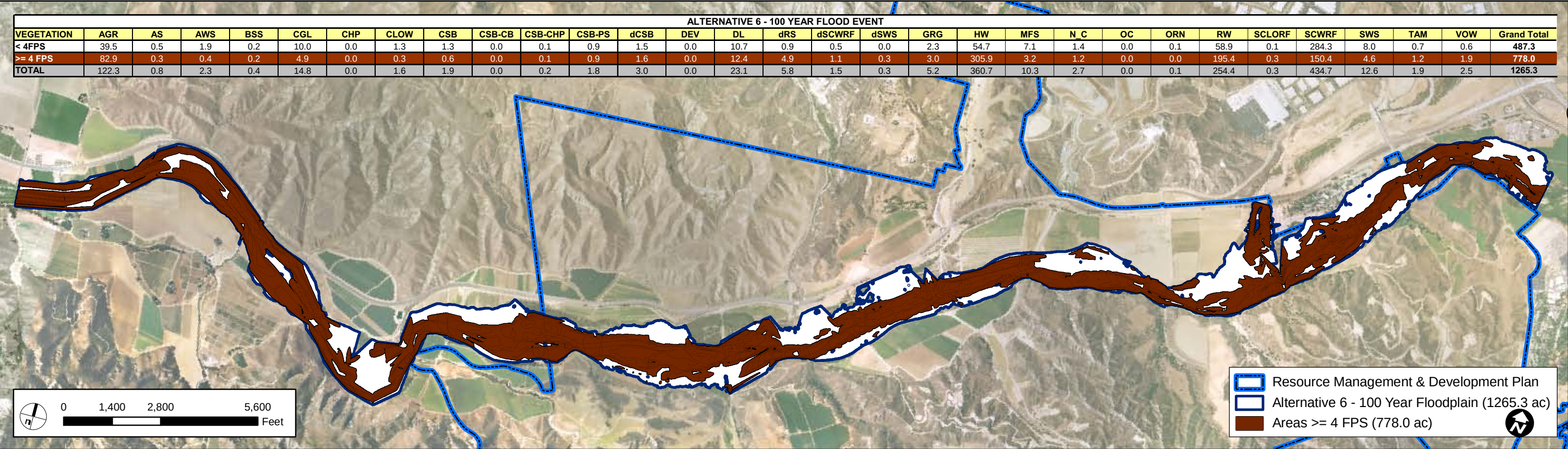
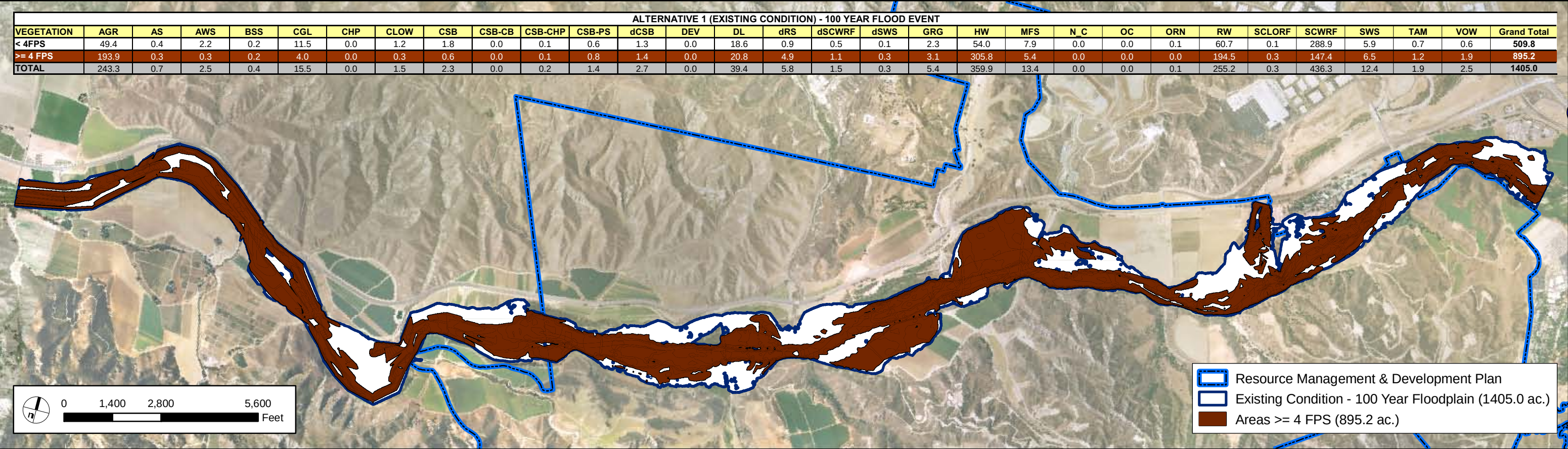


SOURCE: PACE 2008

FIGURE 1.4-3
EXISTING CONDITION AND
ALTERNATIVE 6 - 10 YEAR FLOOD EVENT

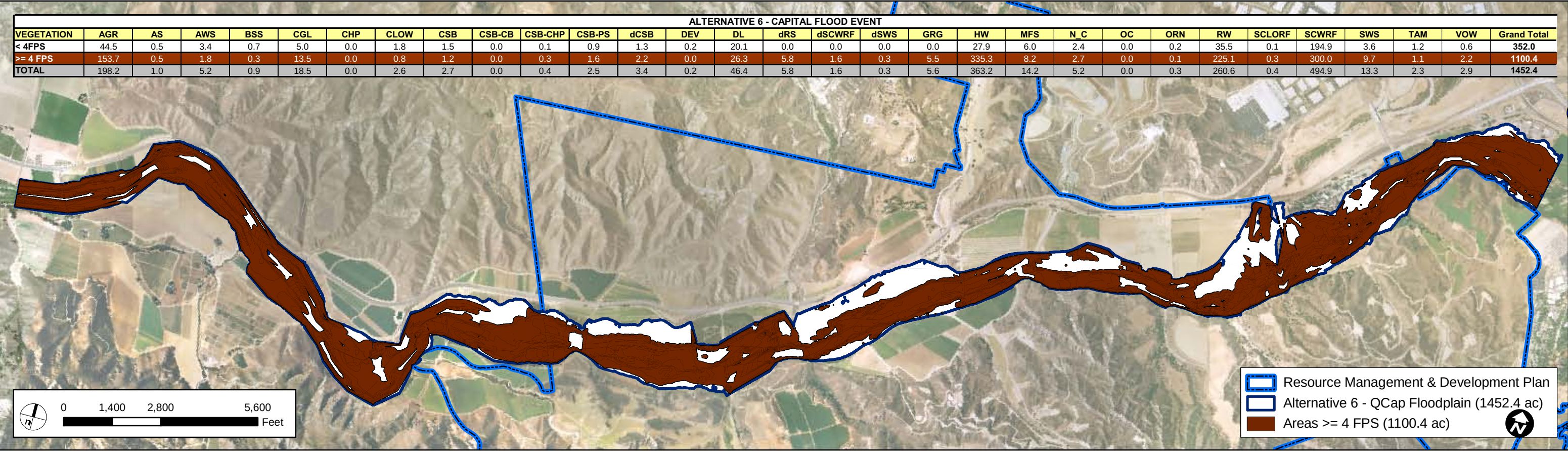
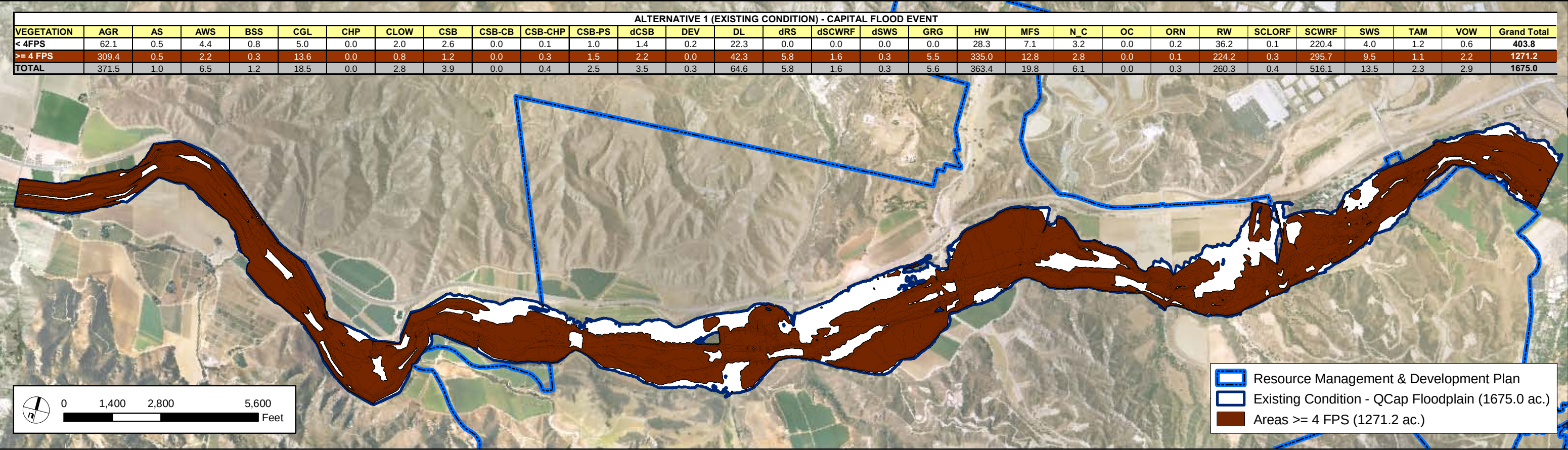






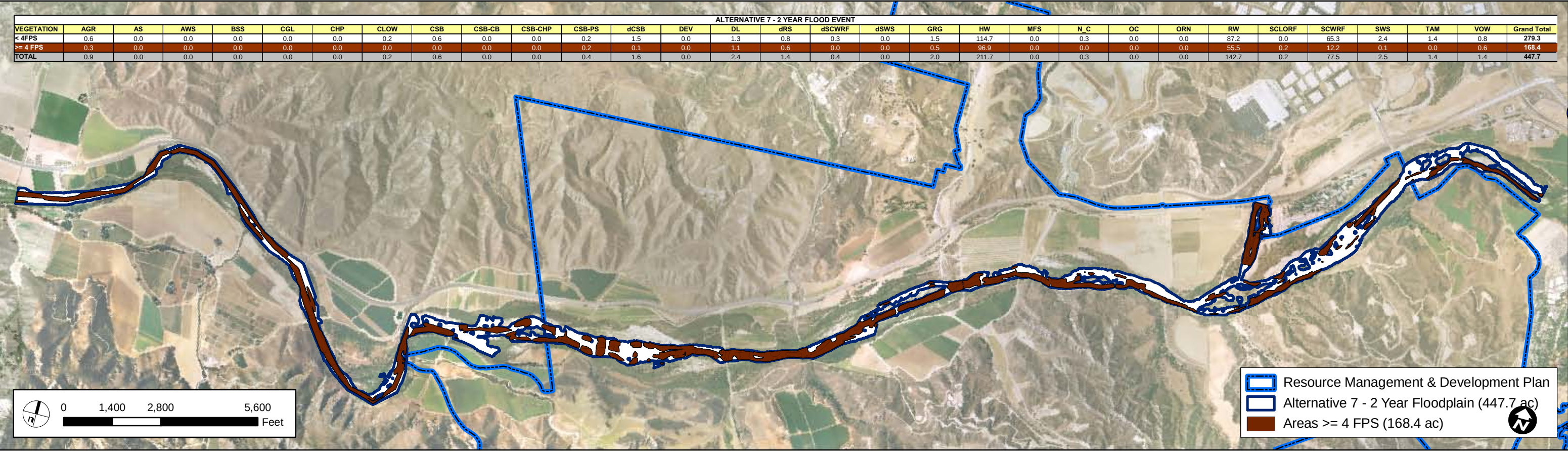
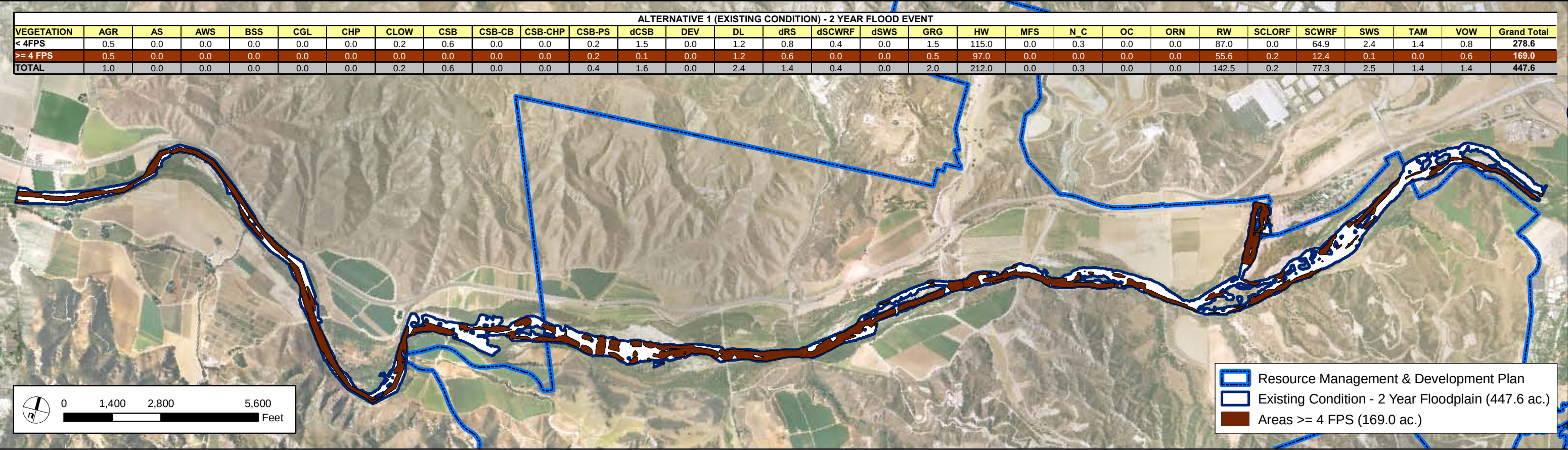
SOURCE: PACE 2008

FIGURE 1.4-6
EXISTING CONDITION AND
ALTERNATIVE 6 - 100 YEAR FLOOD EVENT



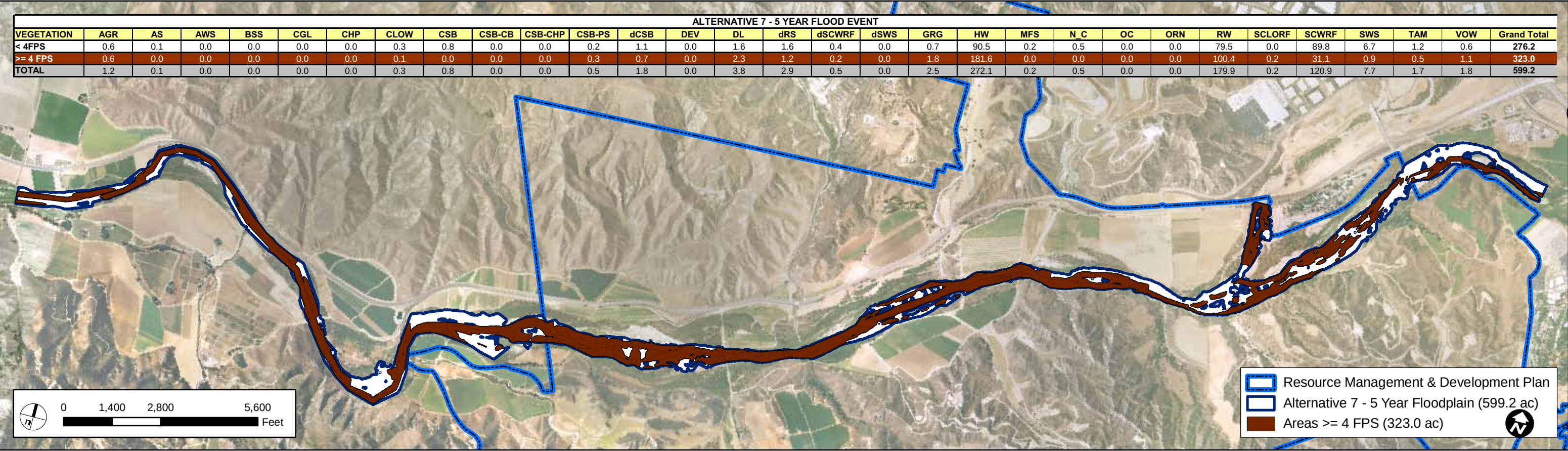
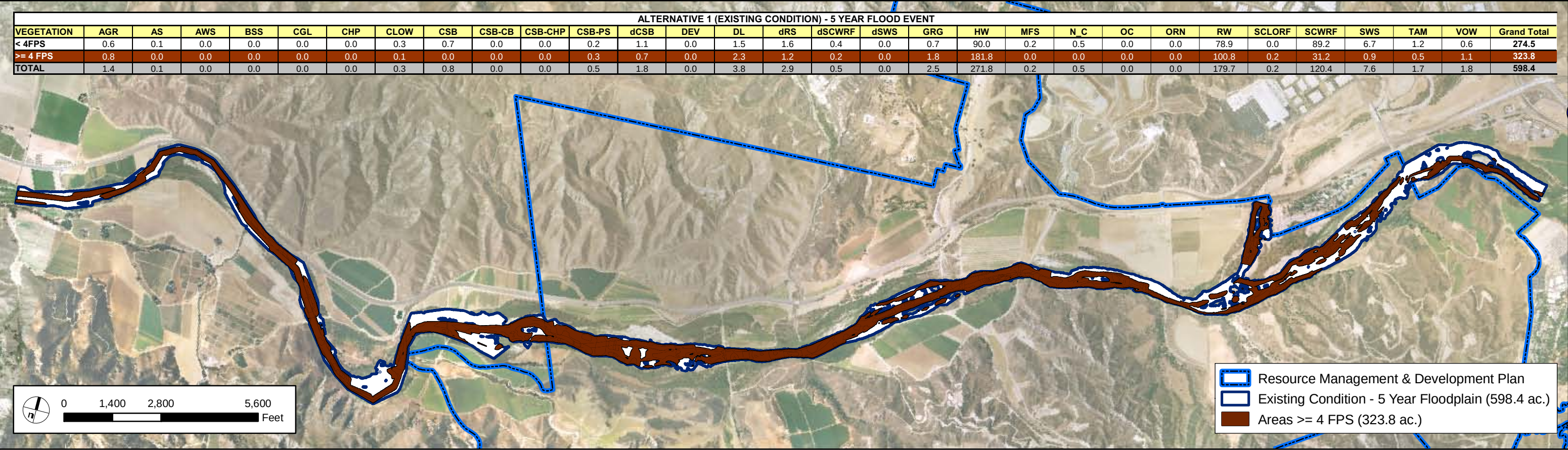
SOURCE: PACE 2008

FIGURE 1.4-7
EXISTING CONDITION AND
ALTERNATIVE 6 - QCAP FLOOD EVENT



SOURCE: PACE 2008

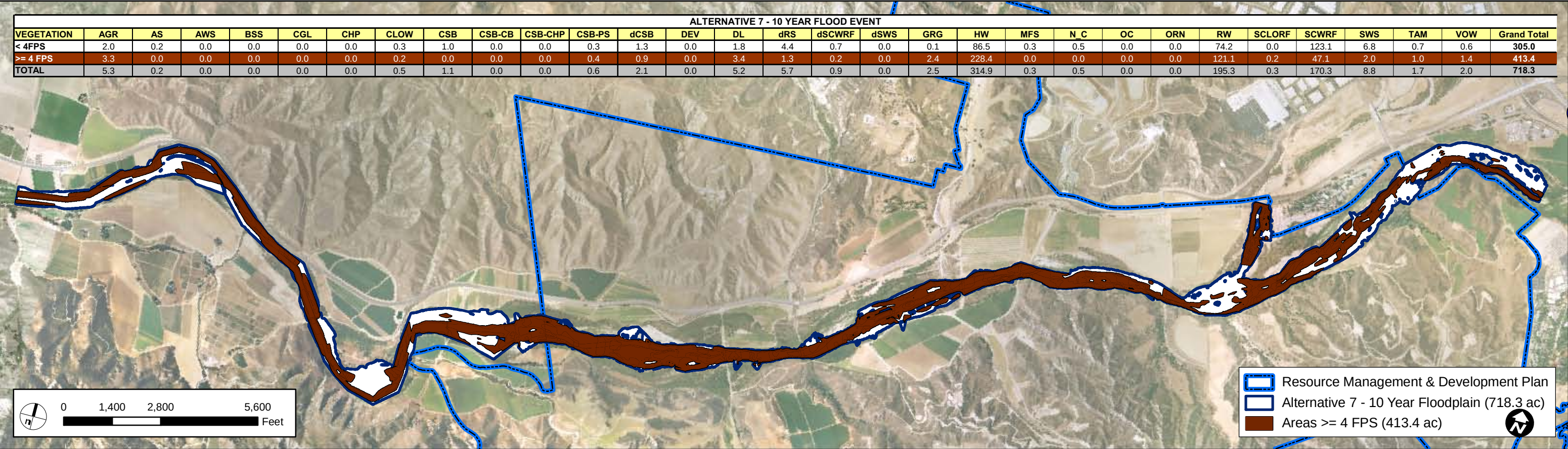
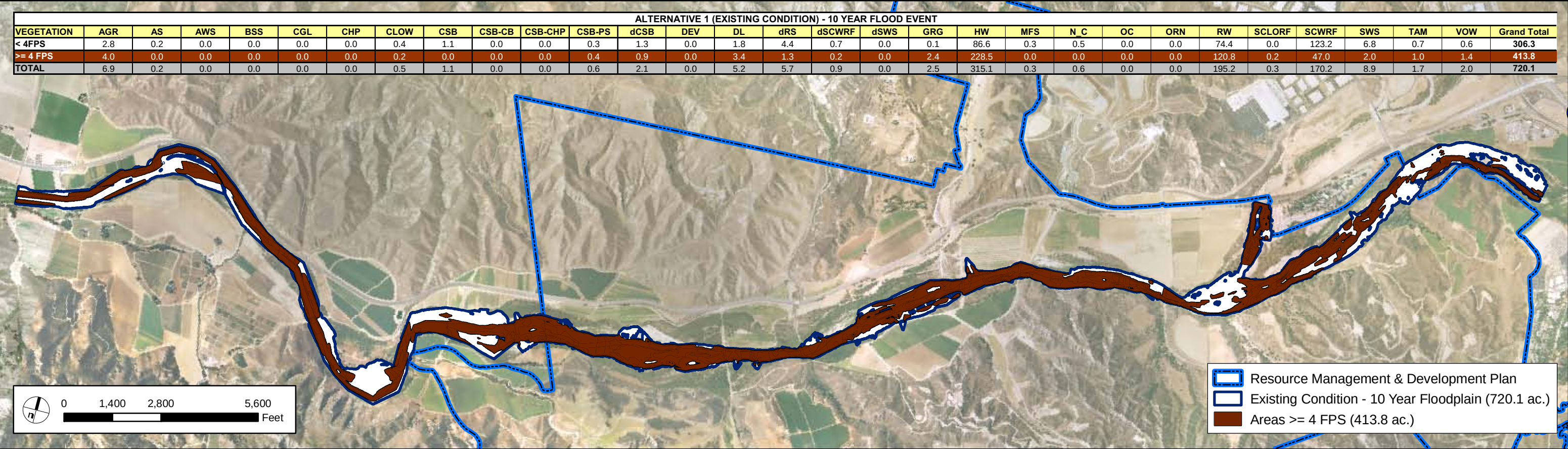
FIGURE 1.5-1
EXISTING CONDITION AND
ALTERNATIVE 7 - 2 YEAR FLOOD EVENT



SOURCE: PACE 2008

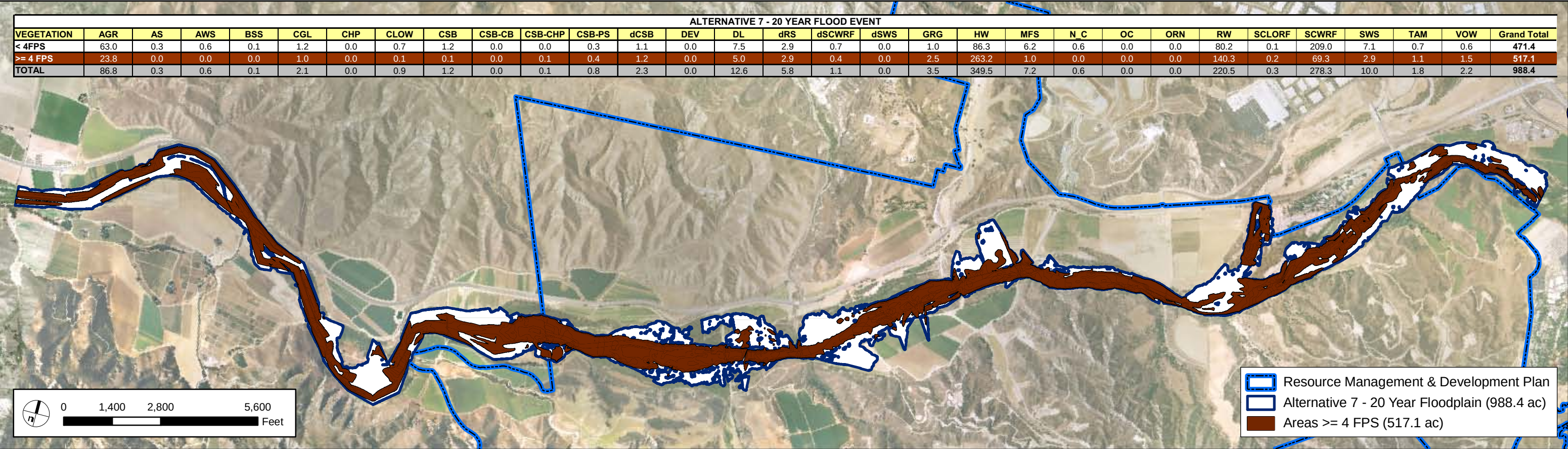
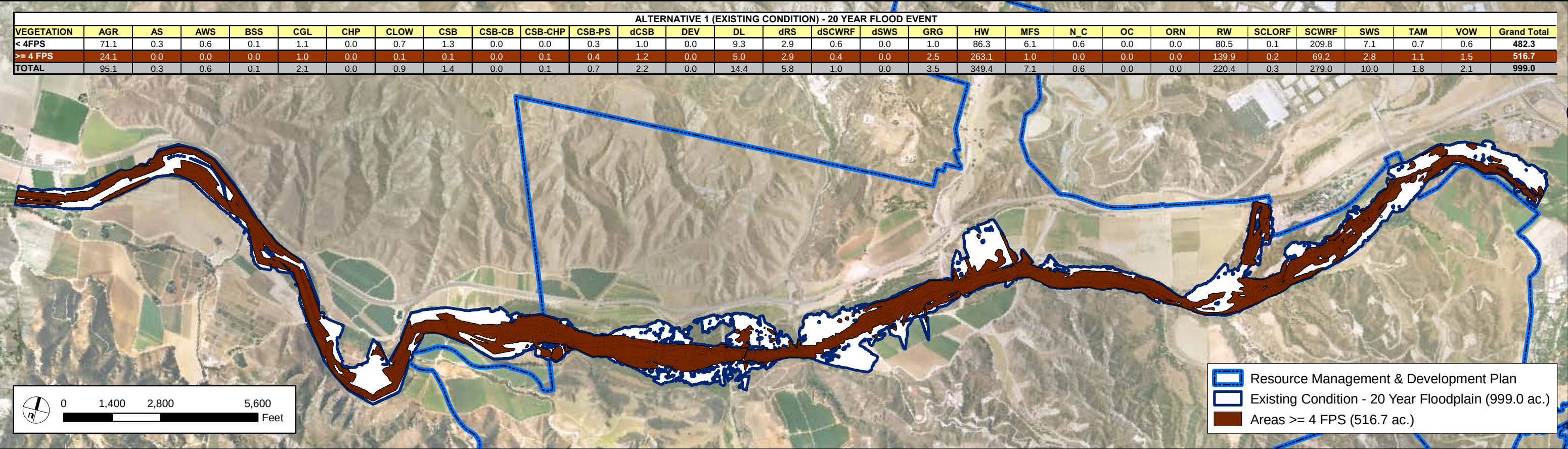
FIGURE 1.5-2
EXISTING CONDITION AND
ALTERNATIVE 7 - 5 YEAR FLOOD EVENT

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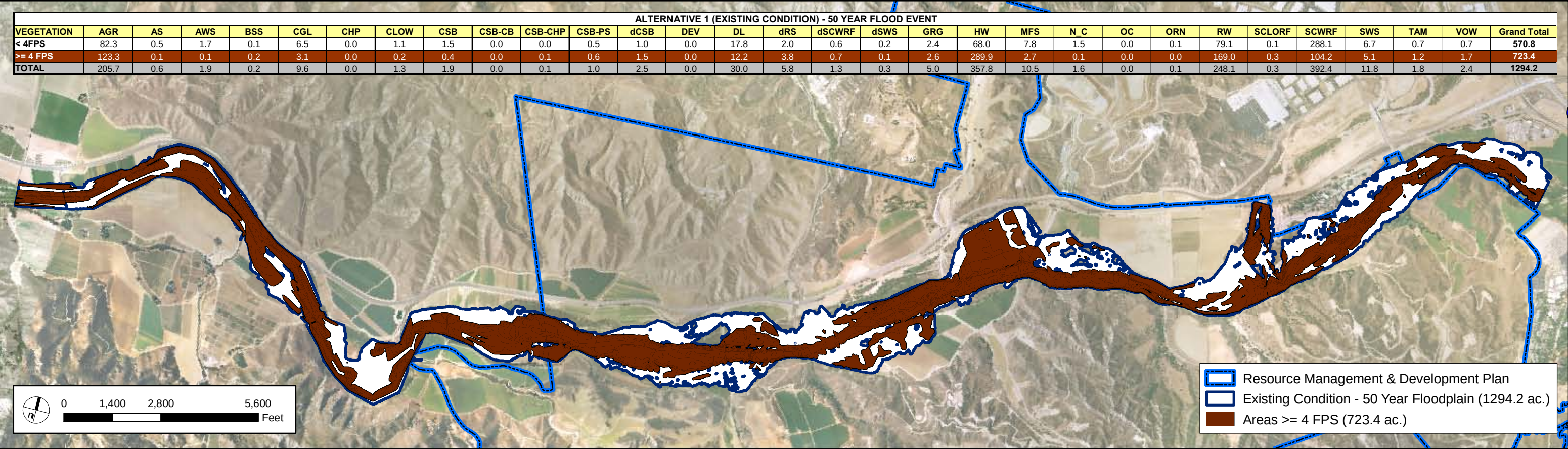
SOURCE: PACE 2008

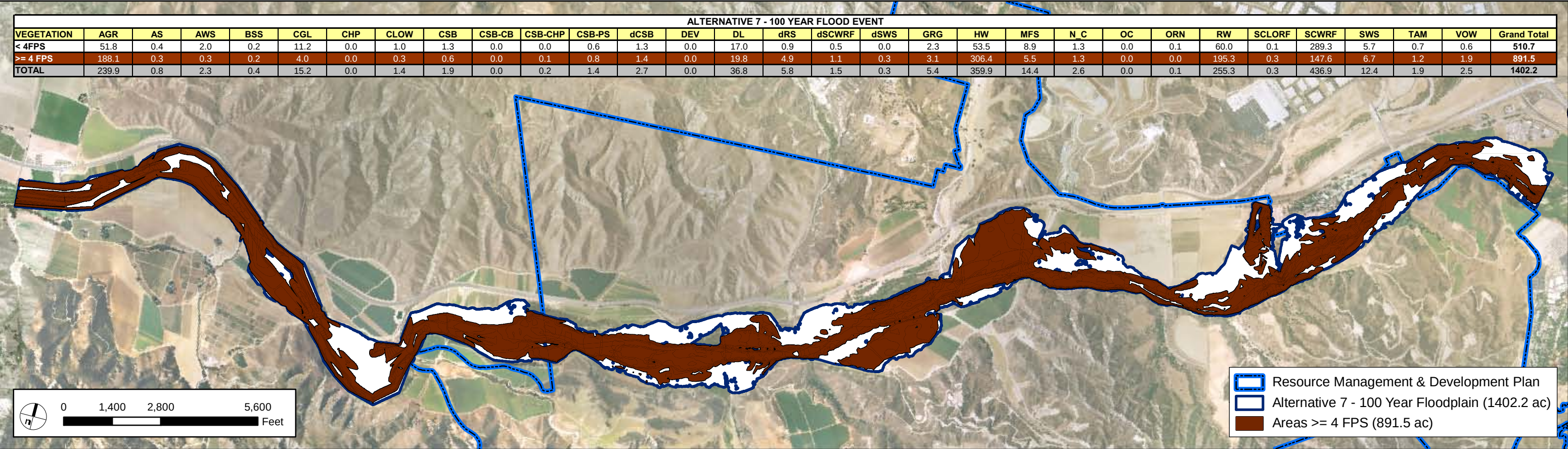
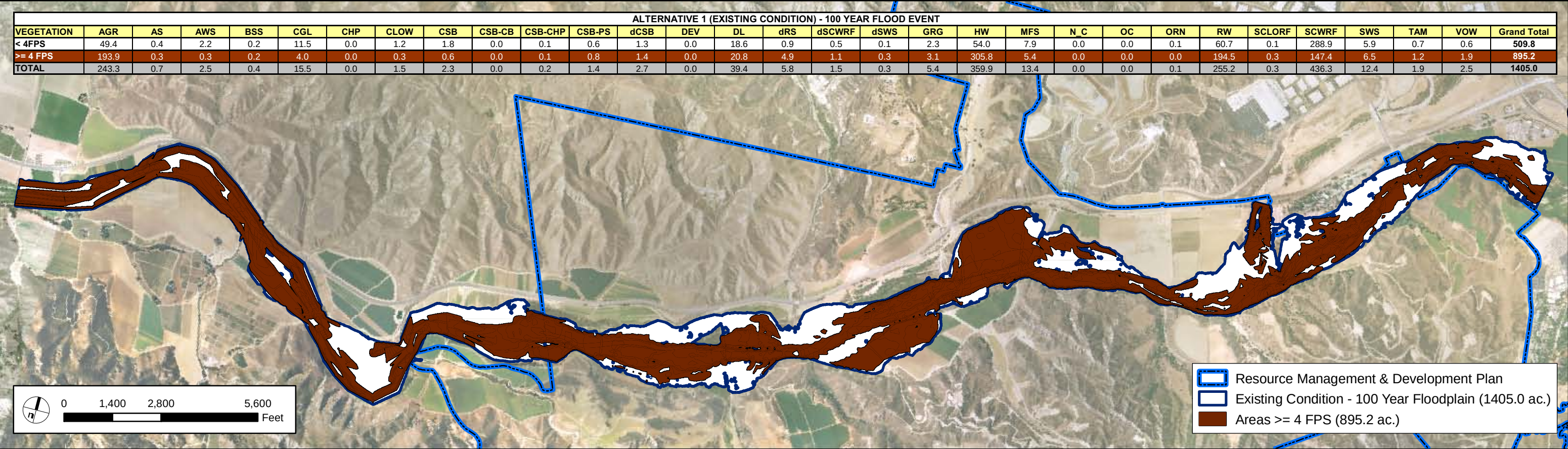
FIGURE 1.5-3
EXISTING CONDITION AND
ALTERNATIVE 7 - 10 YEAR FLOOD EVENT



SOURCE: PACE 2008

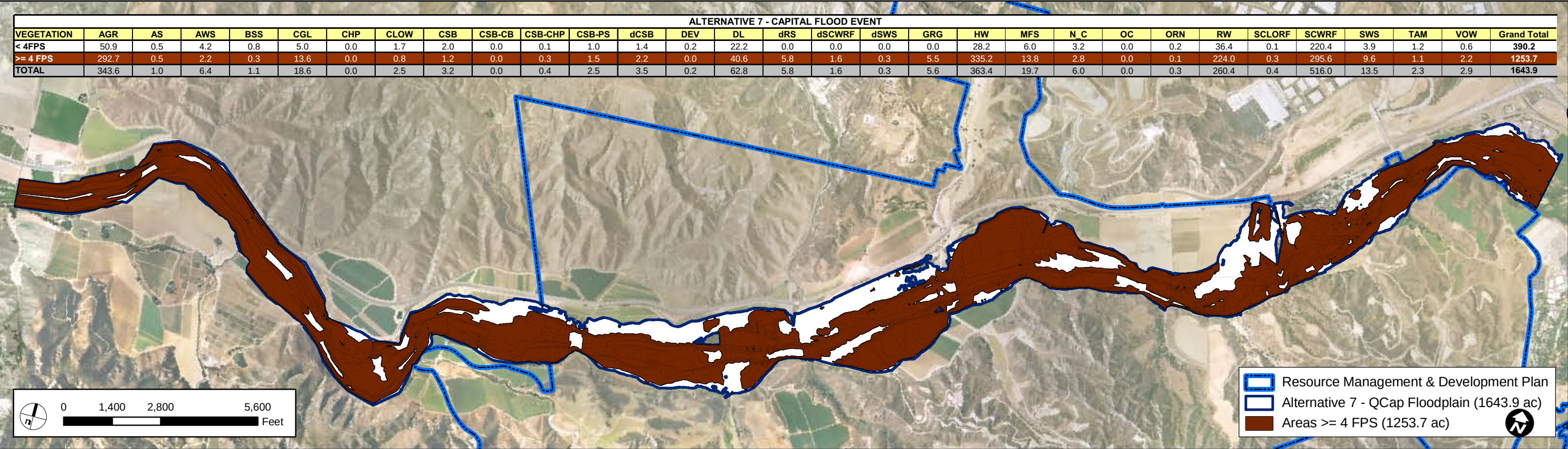
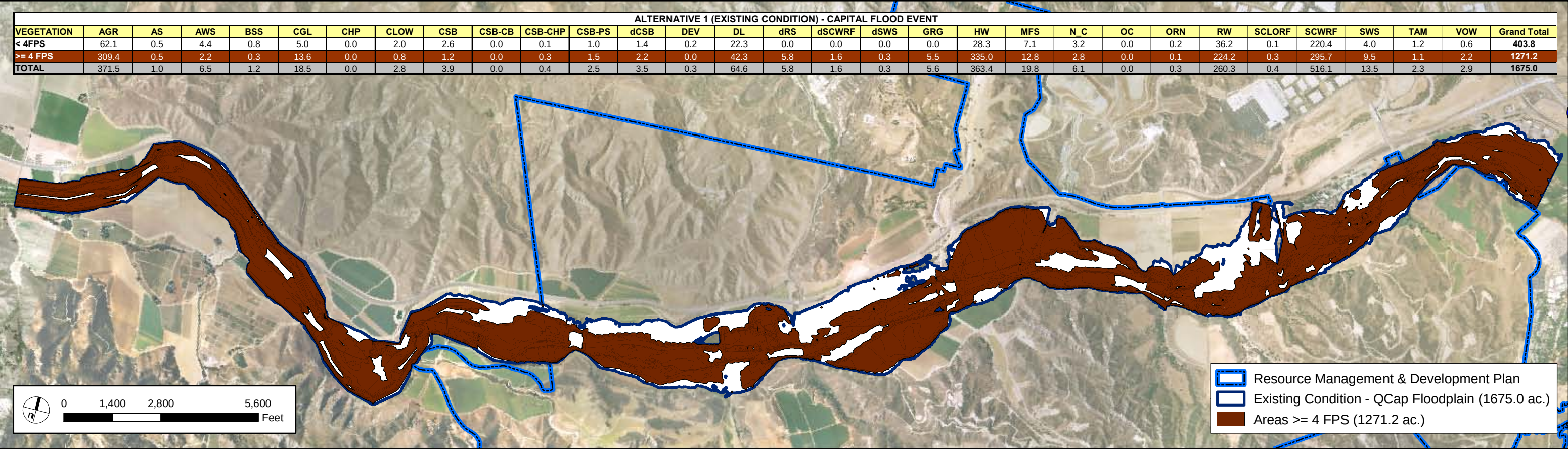
FIGURE 1.5-4
EXISTING CONDITION AND
ALTERNATIVE 7 - 20 YEAR FLOOD EVENT





SOURCE: PACE 2008

FIGURE 1.5-6
EXISTING CONDITION AND
ALTERNATIVE 7 - 100 YEAR FLOOD EVENT



SOURCE: PACE 2008

FIGURE 1.5-7
EXISTING CONDITION AND
ALTERNATIVE 7 - QCAP FLOOD EVENT