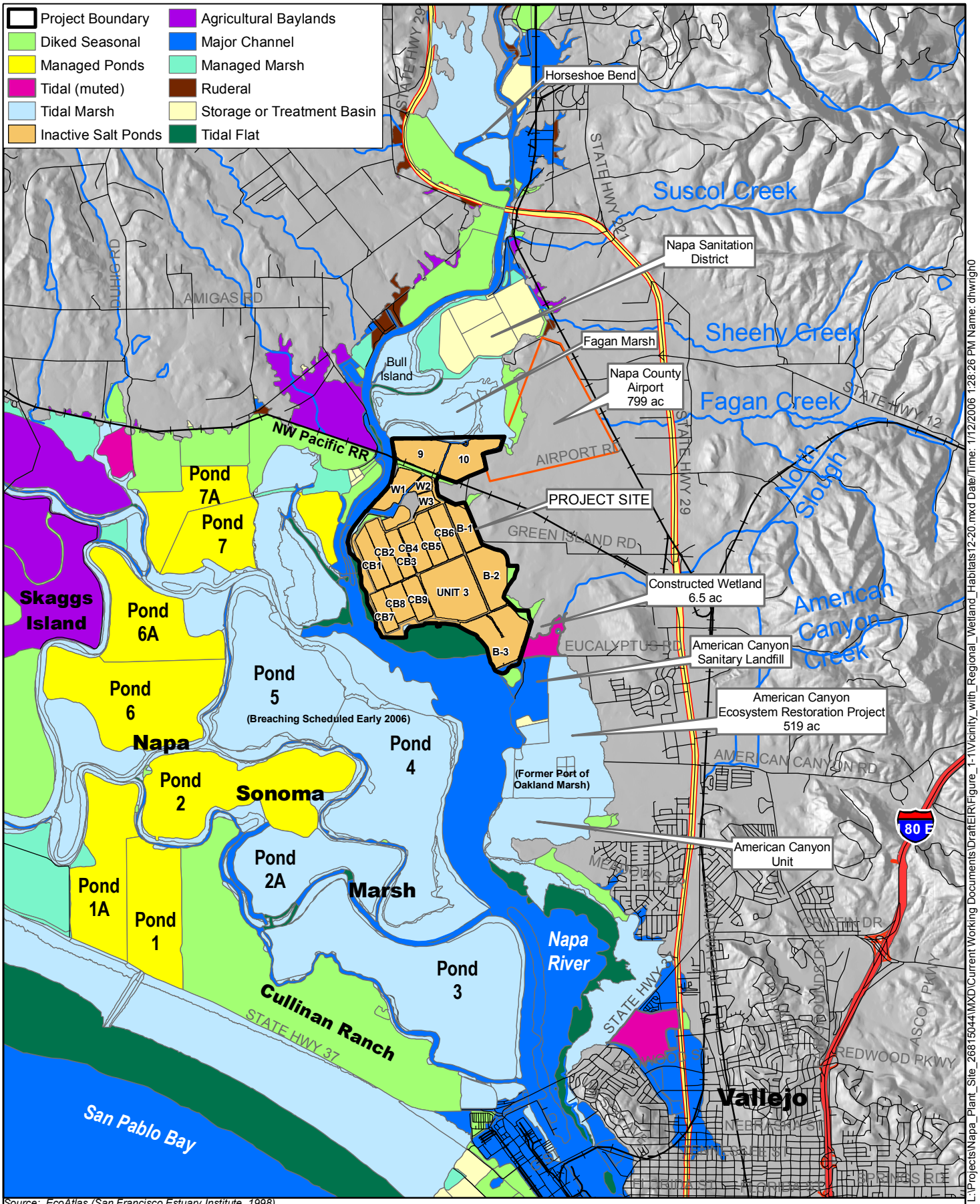


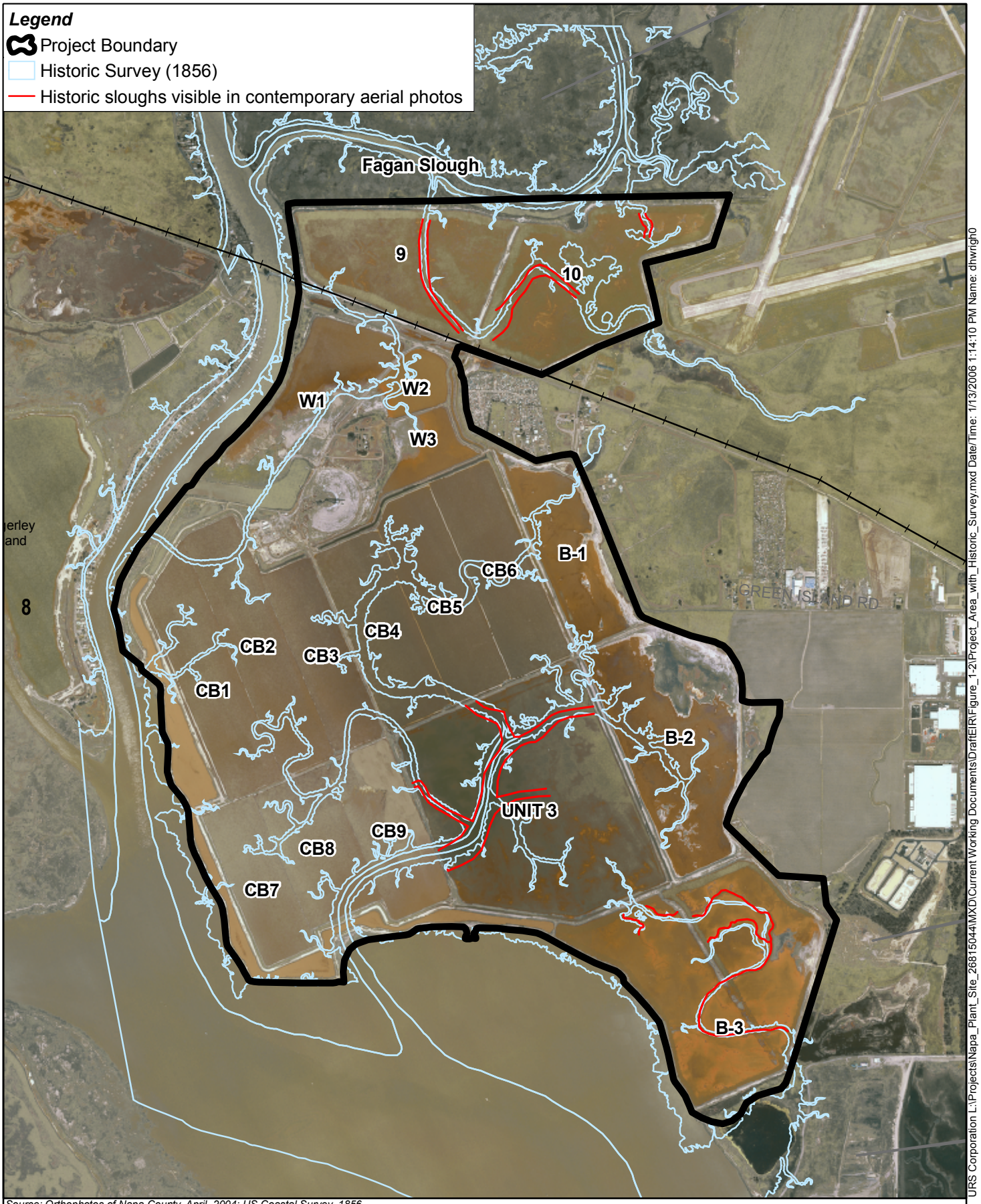
Source: EcoAtlas (San Francisco Estuary Institute, 1998)

1 0.5 0 1 Miles

N W E S

URS	Napa Plant Site Restoration Project 26815044	Project Vicinity Map with Regional Wetland Habitats	Figure 1-1

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_1-1\Vicinity_with_Regional_Wetland_Habitats12-20.mxd Date/Time: 1/12/2006 1:28:26 PM Name: dhwright0



Source: Orthophotos of Napa County, April, 2004; US Coastal Survey, 1856

0 500 1,000 2,000 Feet

N W E S

URS

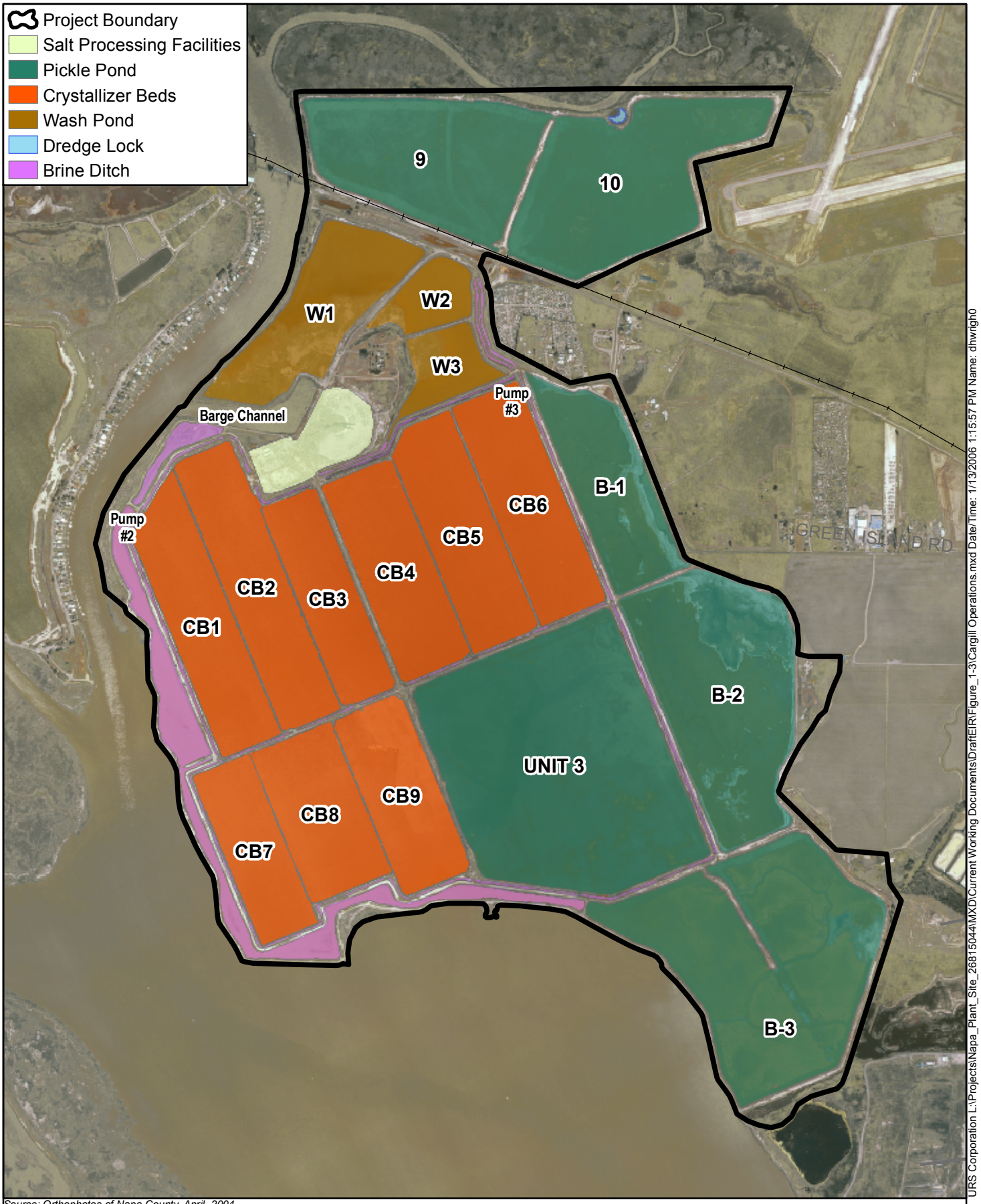
Napa Plant Site Restoration Project

26815044

Project Area with Historic Survey (1856)

Figure 1-2

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_1-2\Project_Area_with_Historic_Survey.mxd Date/Time: 1/13/2006 1:14:10 PM Name: dhwrigh0



Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

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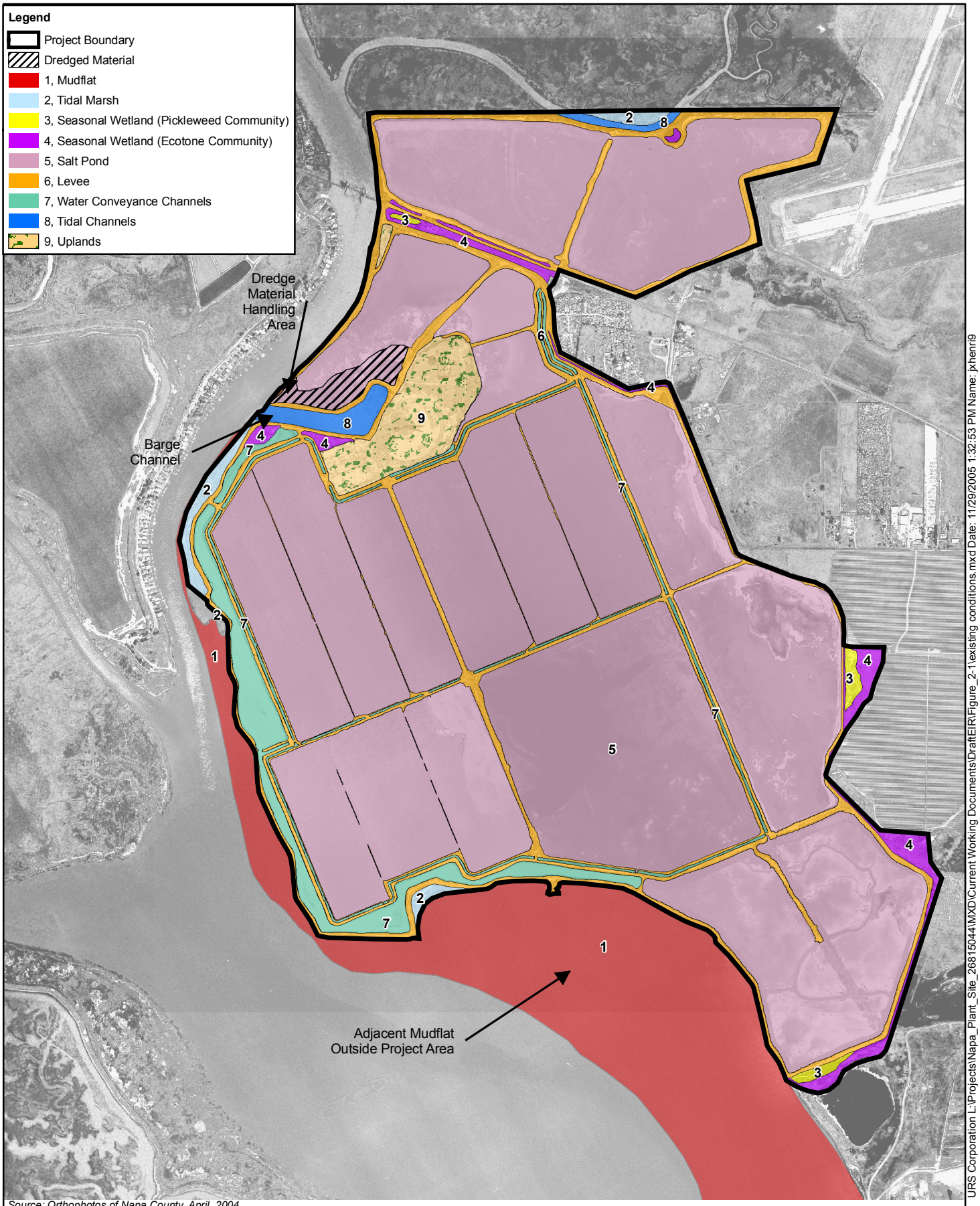
Napa Plant Site Restoration Project

26815044

Cargill Operations at the Napa Plant Site

Figure 1-3

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_1-3\Cargill Operations.mxd Date/Time: 1/13/2006 1:15:57 PM Name: dhwrigh0



Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

URS

Napa Plant Site Restoration Project	Existing Project Area Habitats	Figure 2-1
26815044		

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-1\existing conditions.mxd Date: 11/29/2005 1:32:53 PM Name: jxhenri9

Photo 1. Wash Pond (W1), April 2005 (looking northwest).

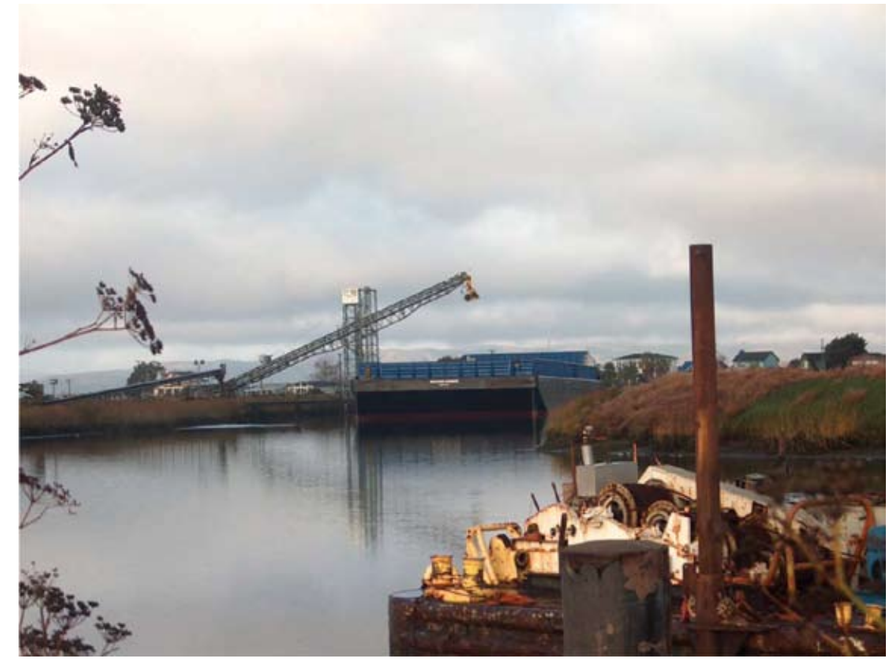
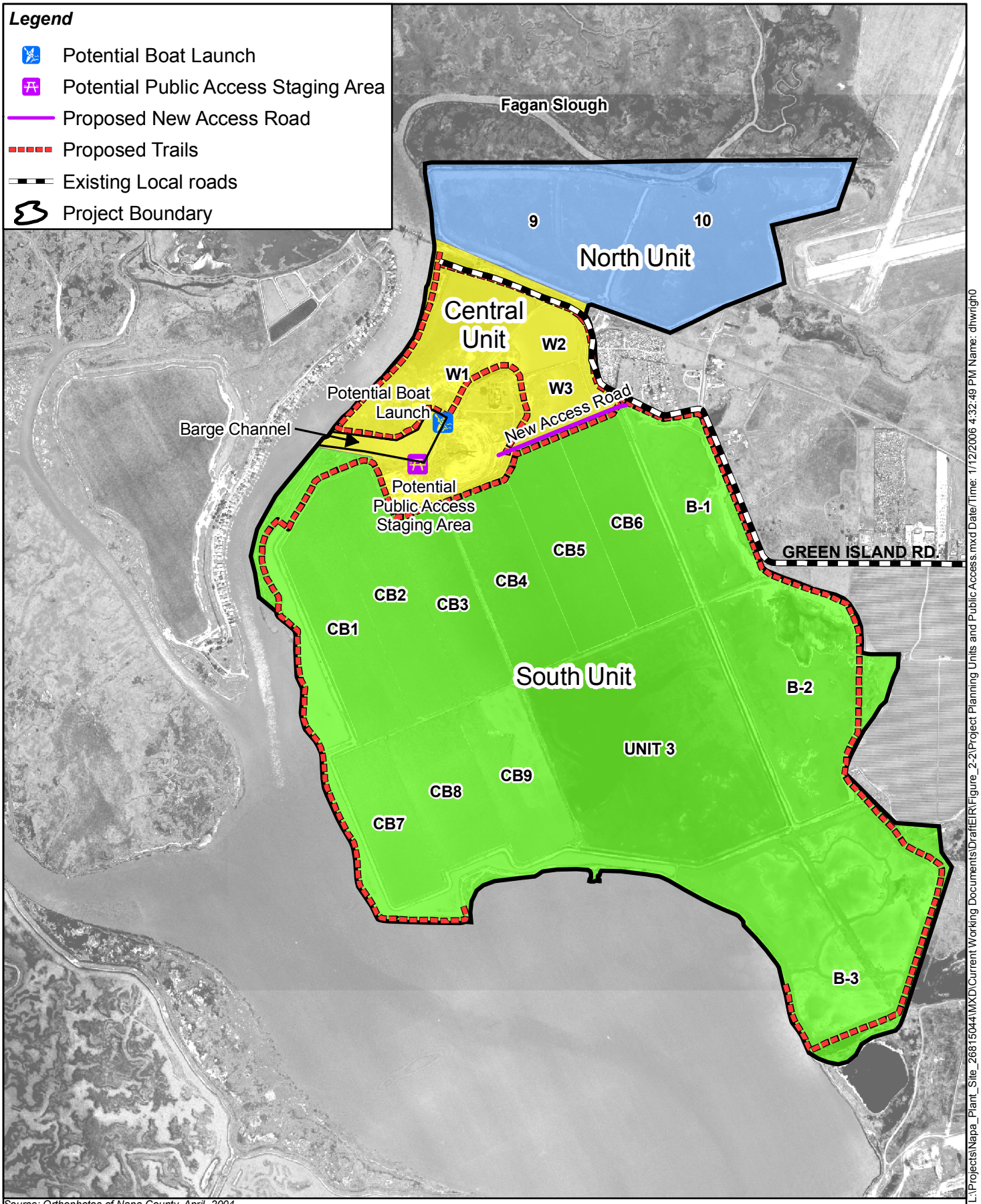


Photo 2. Barge Channel with a barge preparing to load salt, November 2005 (looking west).

Photo 3. Warehouse in the salt production facilities area of the Napa Plant Site.

Photo 4. Tidal marsh and mudflat habitat outboard of the perimeter levee.

URS	Napa Plant Site Restoration Project 26815044	Site Photographs	Fig. 2-2



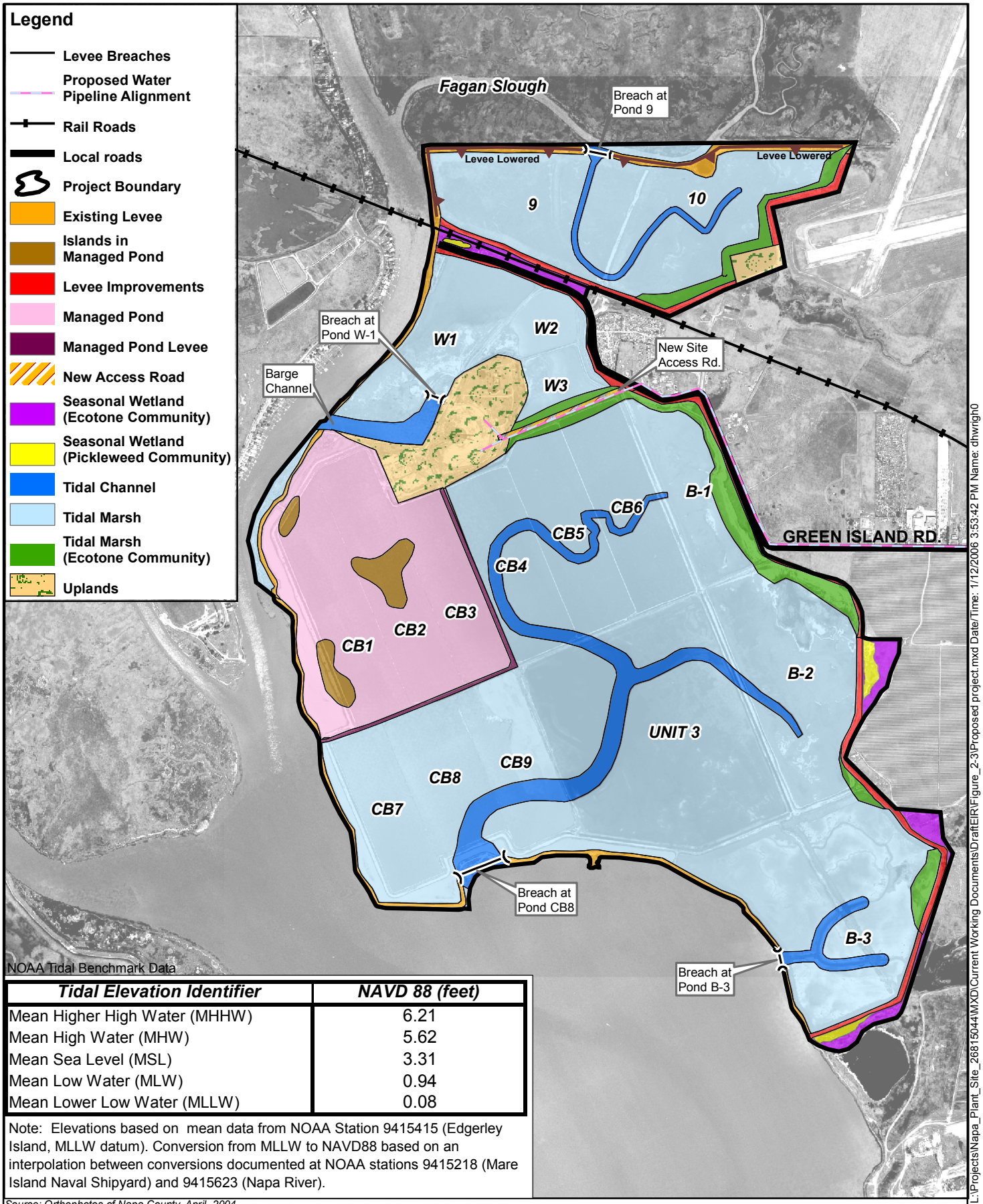
Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

URS	Napa Plant Site Restoration Project 26815044	Planning Units and Public Access Features	Figure 2-3

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-2\Project Planning Units and Public Access.mxd Date/Time: 1/12/2006 4:32:49 PM Name: dhwrigh0



NOAA Tidal Benchmark Data

Tidal Elevation Identifier	NAVD 88 (feet)
Mean Higher High Water (MHHW)	6.21
Mean High Water (MHW)	5.62
Mean Sea Level (MSL)	3.31
Mean Low Water (MLW)	0.94
Mean Lower Low Water (MLLW)	0.08

Note: Elevations based on mean data from NOAA Station 9415415 (Edgerley Island, MLLW datum). Conversion from MLLW to NAVD88 based on an interpolation between conversions documented at NOAA stations 9415218 (Mare Island Naval Shipyard) and 9415623 (Napa River).

Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

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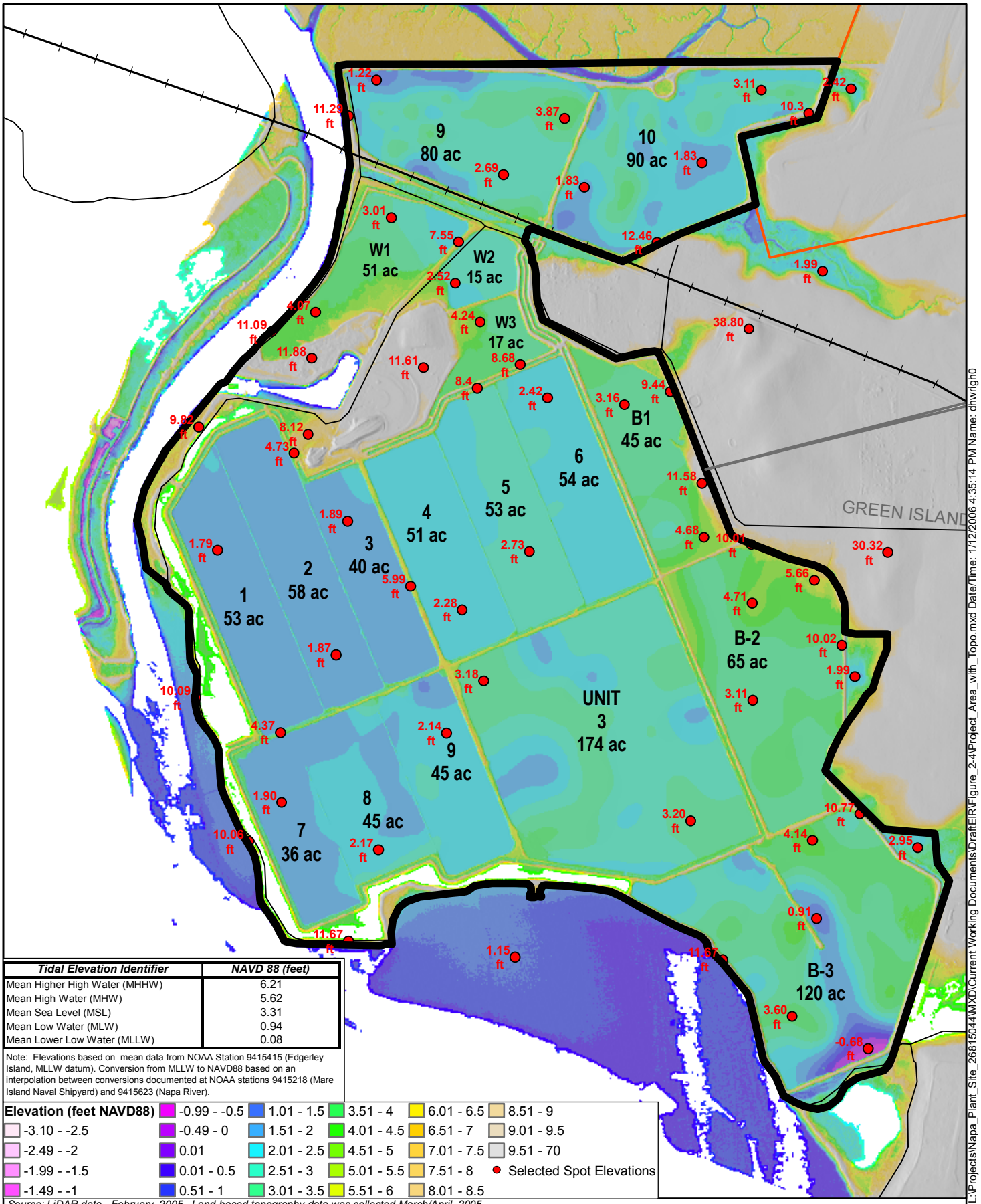
Napa Plant Site Restoration Project

26815044

Proposed Project

Figure 2-4

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-3\Proposed project.mxd Date/Time: 1/12/2006 3:53:42 PM Name: dhwrigh0



Tidal Elevation Identifier	NAVD 88 (feet)
Mean Higher High Water (MHHW)	6.21
Mean High Water (MHW)	5.62
Mean Sea Level (MSL)	3.31
Mean Low Water (MLW)	0.94
Mean Lower Low Water (MLLW)	0.08

Note: Elevations based on mean data from NOAA Station 9415415 (Edgerley Island, MLLW datum). Conversion from MLLW to NAVD88 based on an interpolation between conversions documented at NOAA stations 9415218 (Mare Island Naval Shipyard) and 9415623 (Napa River).

Elevation (feet NAVD88)

-3.10 - -2.5	-0.99 - -0.5	1.01 - 1.5	3.51 - 4	6.01 - 6.5	8.51 - 9
-2.49 - -2	-0.49 - 0	1.51 - 2	4.01 - 4.5	6.51 - 7	9.01 - 9.5
-1.99 - -1.5	0.01	2.01 - 2.5	4.51 - 5	7.01 - 7.5	9.51 - 70
-1.49 - -1	0.01 - 0.5	2.51 - 3	5.01 - 5.5	7.51 - 8	Selected Spot Elevations
	0.51 - 1	3.01 - 3.5	5.51 - 6	8.01 - 8.5	

Source: LiDAR data - February, 2005. Land-based topography data was collected March/April, 2005.

0 500 1,000 2,000 Feet

N W E S

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Napa Plant Site Restoration Project

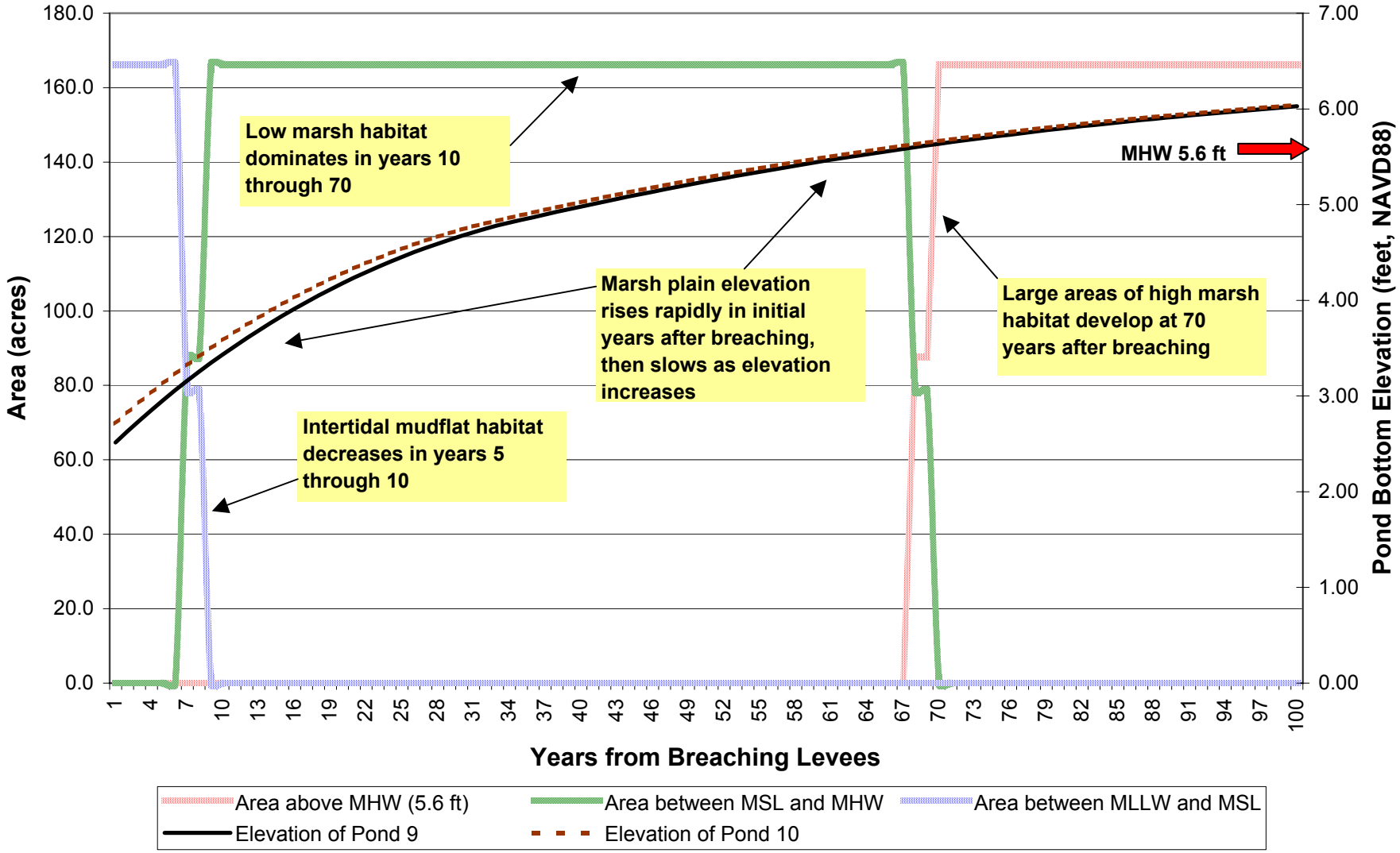
26815044

Project Area with Topography

Figure 2-5

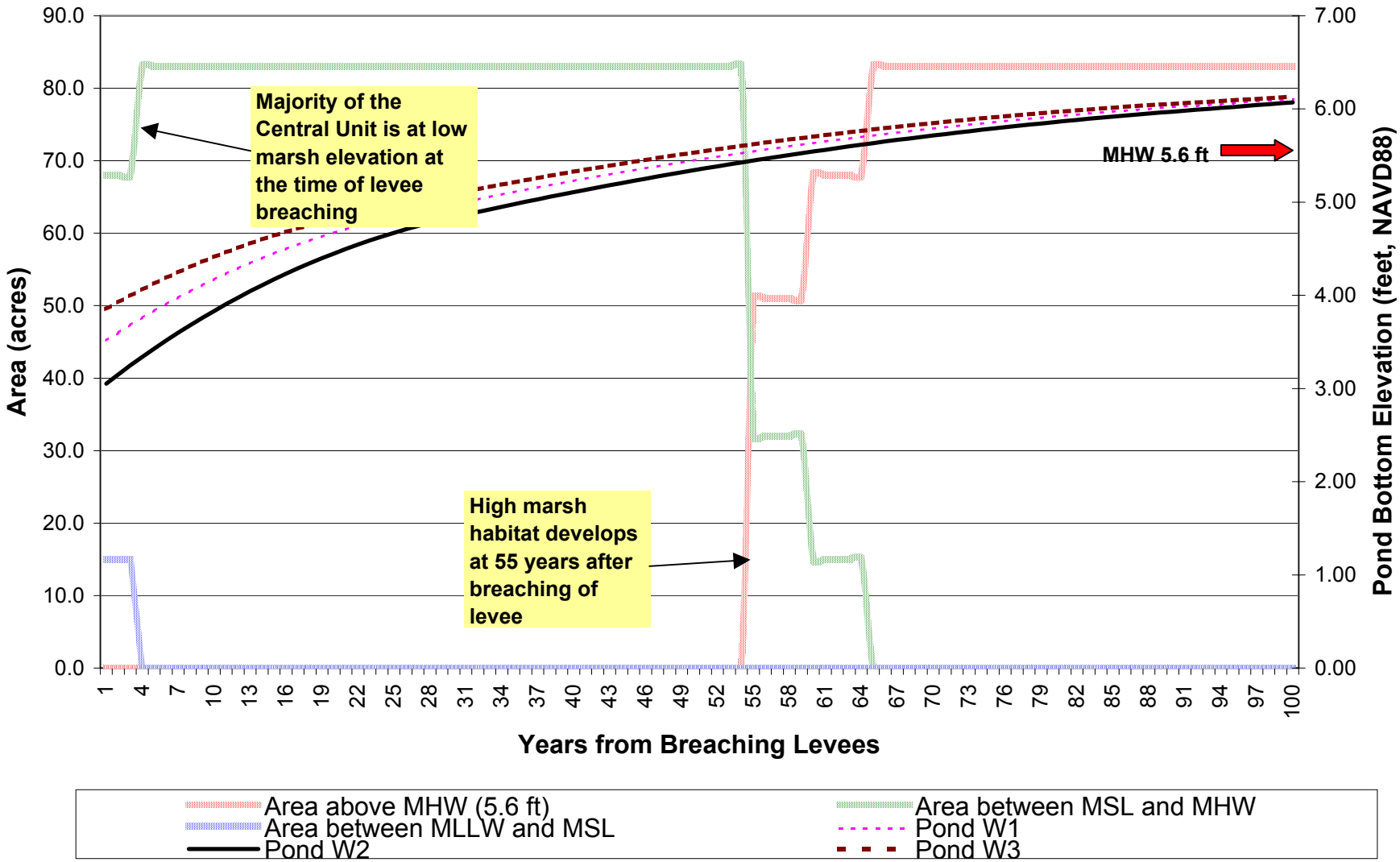
URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-4\Project_Area_with_Topo.mxd Date/Time: 1/12/2006 4:35:14 PM Name: dhwrigh0

Figure 2-6a. Predicted Tidal Wetland Development in North Unit



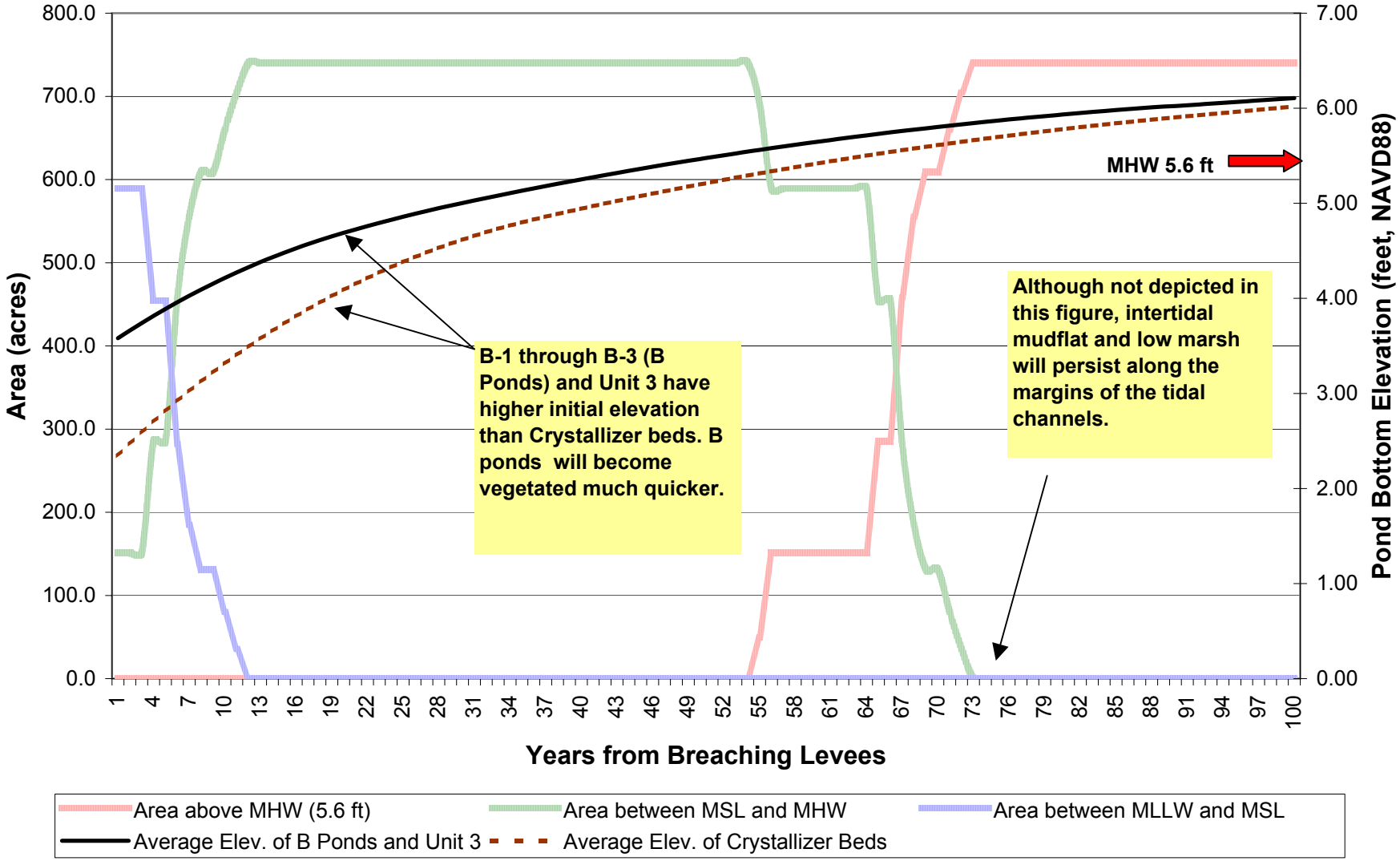
Note: Areas are based on pond average elevations

Figure 2-6b. Predicted Tidal Wetland Development in Central Unit

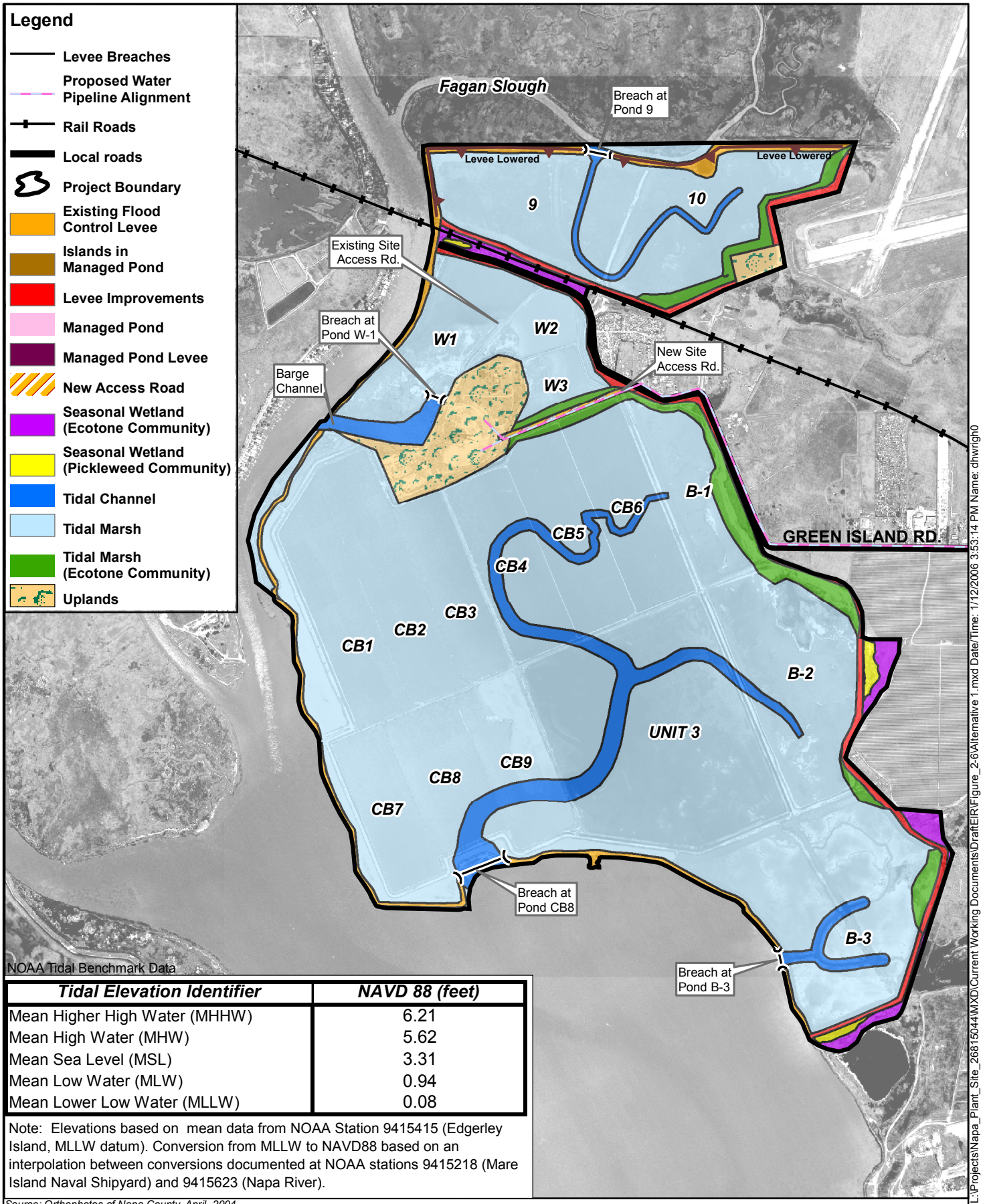


Note: Areas are based on pond average elevations

Figure 2.6c Predicted Tidal Wetland Development in South Unit



Note: Areas are based on pond average elevations



NOAA Tidal Benchmark Data

Tidal Elevation Identifier	NAVD 88 (feet)
Mean Higher High Water (MHHW)	6.21
Mean High Water (MHW)	5.62
Mean Sea Level (MSL)	3.31
Mean Low Water (MLW)	0.94
Mean Lower Low Water (MLLW)	0.08

Note: Elevations based on mean data from NOAA Station 9415415 (Edgerley Island, MLLW datum). Conversion from MLLW to NAVD88 based on an interpolation between conversions documented at NOAA stations 9415218 (Mare Island Naval Shipyard) and 9415623 (Napa River).

Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

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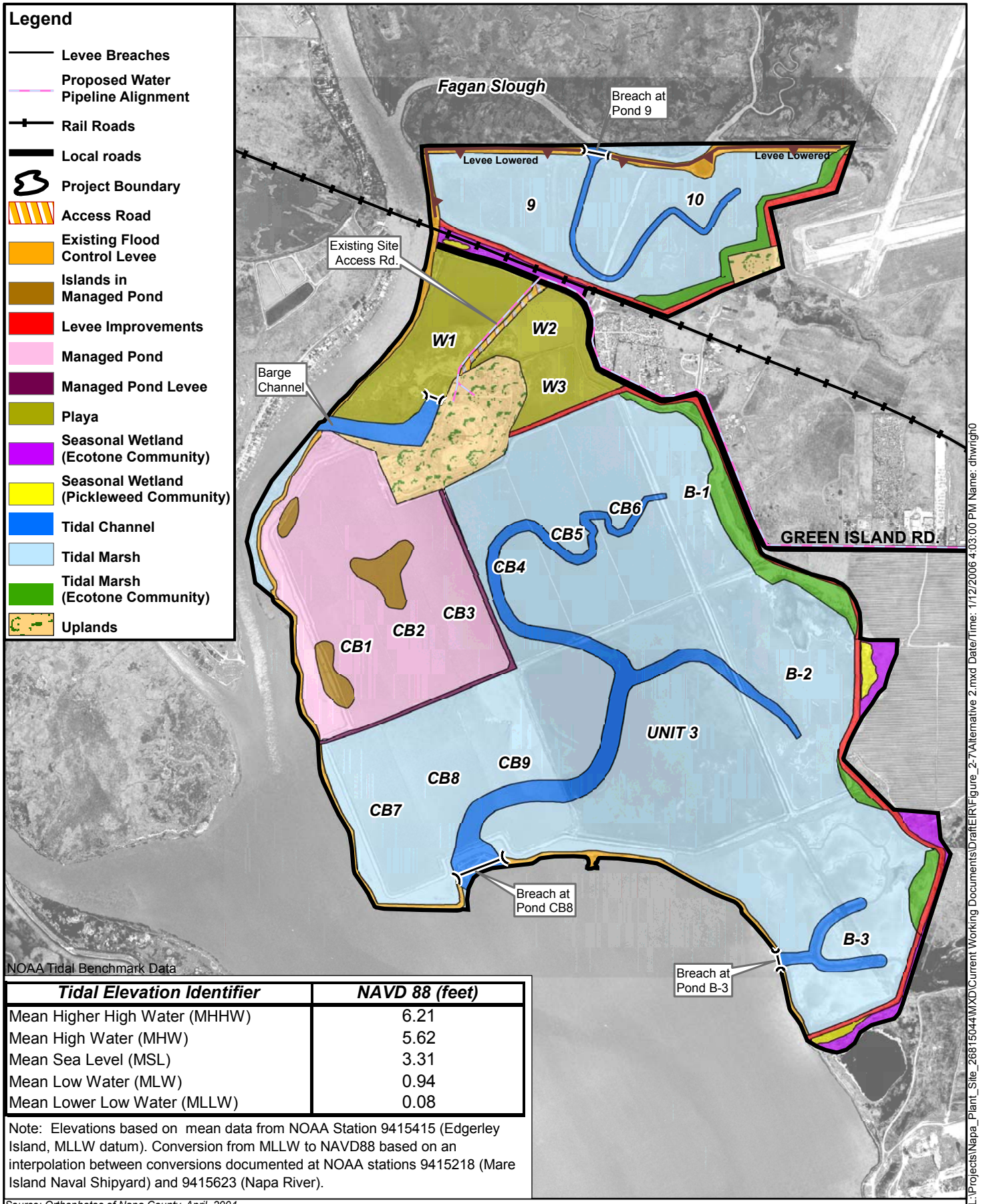
Napa Plant Site Restoration Project

26815044

Alternative 1
Full Tidal Restoration

Figure 2-7

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-6\Alternative 1.mxd Date/Time: 1/12/2006 3:53:14 PM Name: dhwrigh0



NOAA Tidal Benchmark Data

Tidal Elevation Identifier	NAVD 88 (feet)
Mean Higher High Water (MHHW)	6.21
Mean High Water (MHW)	5.62
Mean Sea Level (MSL)	3.31
Mean Low Water (MLW)	0.94
Mean Lower Low Water (MLLW)	0.08

Note: Elevations based on mean data from NOAA Station 9415415 (Edgerley Island, MLLW datum). Conversion from MLLW to NAVD88 based on an interpolation between conversions documented at NOAA stations 9415218 (Mare Island Naval Shipyard) and 9415623 (Napa River).

Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

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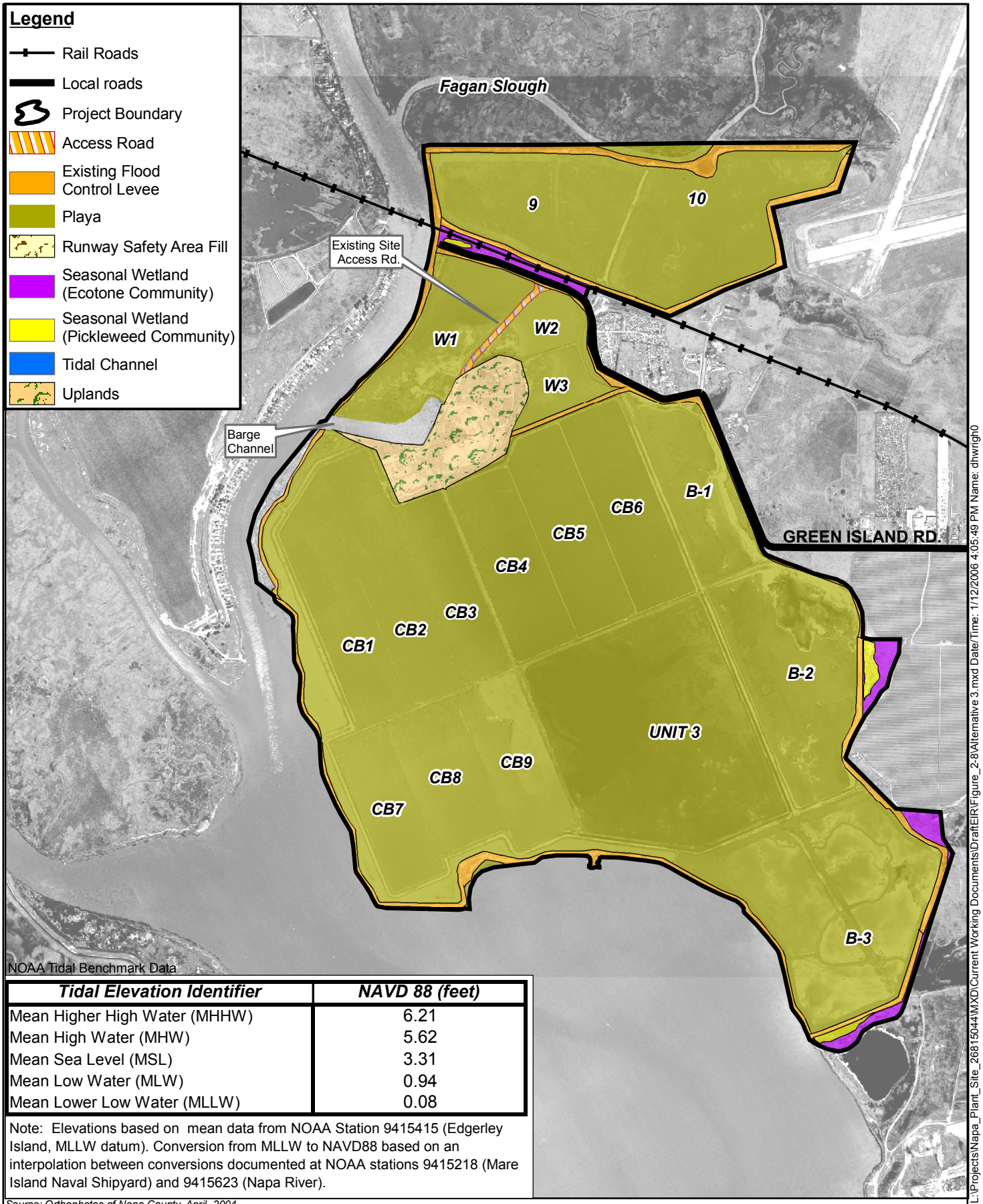
Napa Plant Site Restoration Project

26815044

Alternative 2 Tidal Restoration, Managed Pond and Playa

Figure 2-8

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-7\Alternative 2.mxd Date/Time: 1/12/2006 4:03:00 PM Name: dhwrigh0



NOAA Tidal Benchmark Data

Tidal Elevation Identifier	NAVD 88 (feet)
Mean Higher High Water (MHHW)	6.21
Mean High Water (MHW)	5.62
Mean Sea Level (MSL)	3.31
Mean Low Water (MLW)	0.94
Mean Lower Low Water (MLLW)	0.08

Note: Elevations based on mean data from NOAA Station 9415415 (Edgerley Island, MLLW datum). Conversion from MLLW to NAVD88 based on an interpolation between conversions documented at NOAA stations 9415218 (Mare Island Naval Shipyard) and 9415623 (Napa River).

Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

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Napa Plant Site Restoration Project

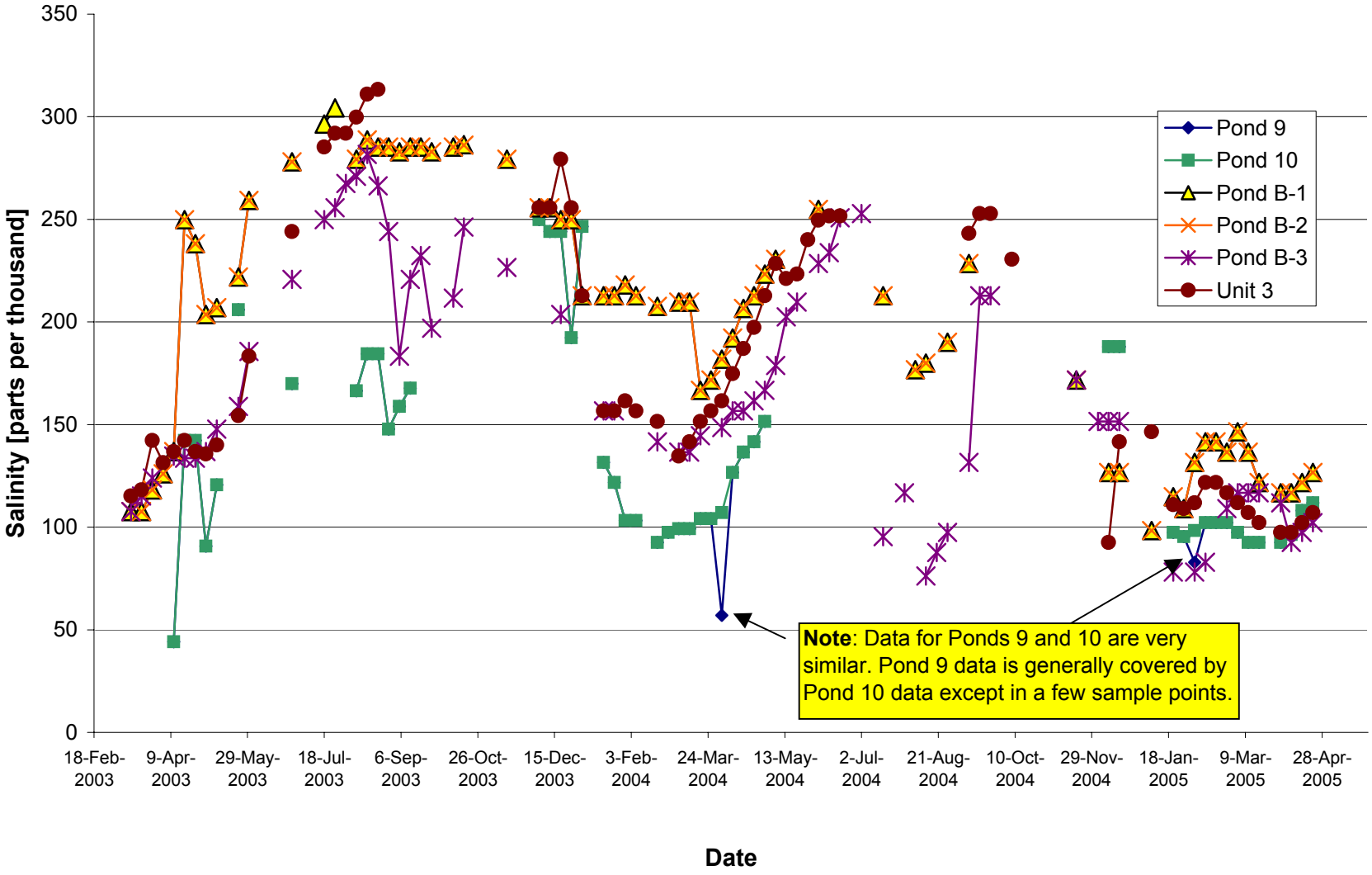
26815044

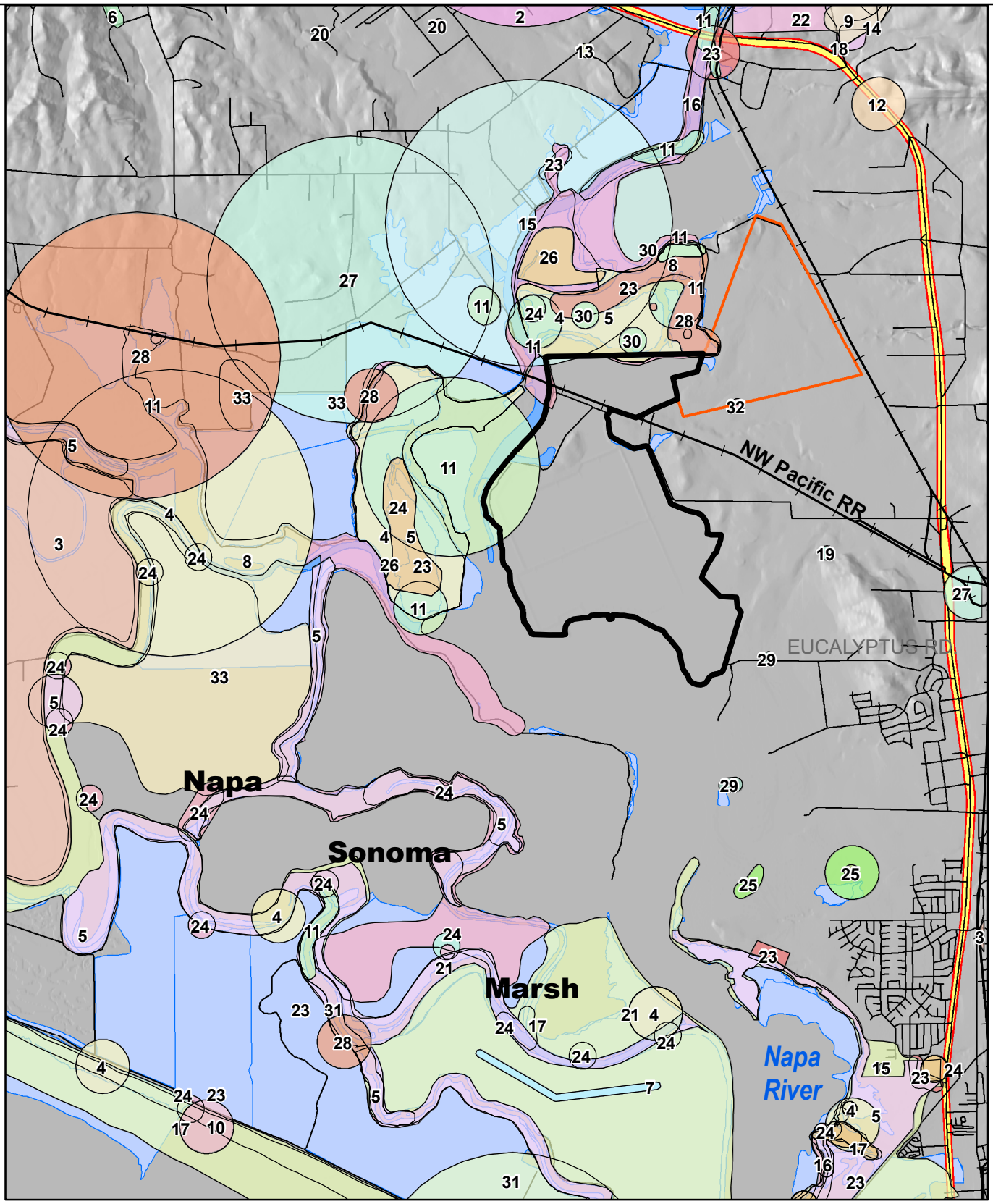
Alternative 3 No Project

Figure 2-9

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_2-8\Alternative 3.mxd Date/Time: 1/12/2006 4:05:49 PM Name: dhwrigh0

Figure 4-1. Napa Plant Site Pickle Pond Salinity Data





Legend

Common Name

1, alkali milk-vetch
2, American badger
3, burrowing owl
4, California black rail
5, California clapper rail
6, California freshwater shrimp
7, Caspian tern
8, Coastal Brackish Marsh
9, Contra Costa goldfields
10, Delta smelt
11, Delta tule pea
12, dwarf downingia
13, golden eagle
14, legenere
15, Marin knotweed
16, Mason's lilaeopsis
17, Northern Coastal Salt Marsh
18, Northern Vernal Pool
19, northwestern pond turtle
20, pallid bat
21, Sacramento splittail
22, saline clover
23, salt-marsh harvest mouse
24, saltmarsh common yellowthroat
25, San Joaquin spearscale
26, San Pablo song sparrow
27, showy indian clover
28, soft bird's-beak
29, steelhead-central California coast esu
30, Suisun Marsh aster
31, Suisun shrew
32, vernal pool fairy shrimp
33, western snowy plover
Channels
Tidal Marshes, Ponds

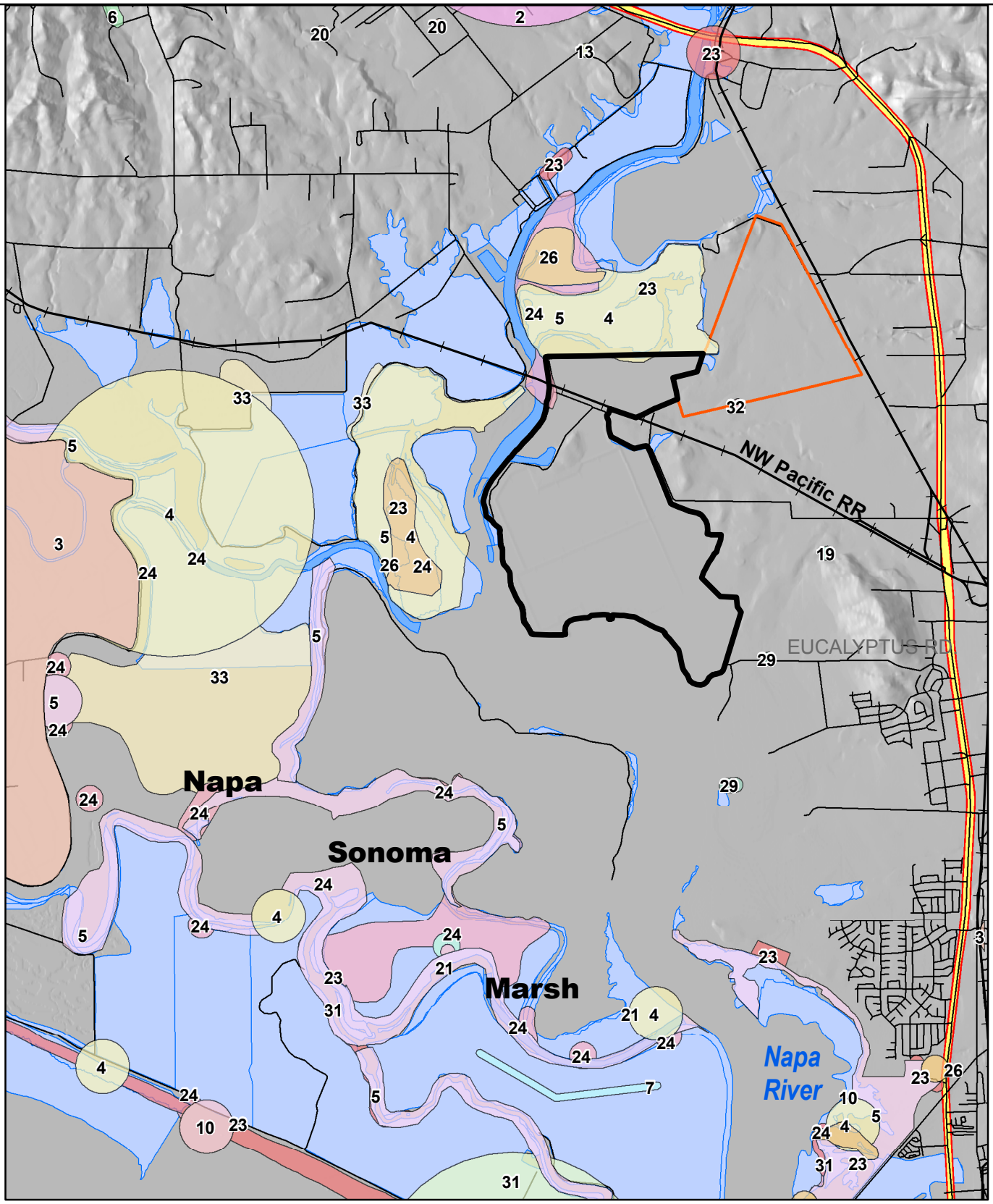
Source: EcoAtlas (San Francisco Estuary Institute, 1998)

0.5 0 0.5 Miles

N W E S

URS	Napa Plant Site Restoration Project 26815044	CNDDB Plant Occurences	Figure 4-2a

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-2cnddb 061305.mxd Date/Time: 1/13/2006 12:44:17 PM Name: dhwrigh0



Legend

Common Name

- 2, American badger
- 3, burrowing owl
- 4, California black rail
- 5, California clapper rail
- 6, California freshwater shrimp
- 7, Caspian tern
- 10, Delta smelt
- 13, golden eagle
- 19, northwestern pond turtle
- 20, pallid bat
- 21, Sacramento splittail
- 23, salt-marsh harvest mouse
- 24, saltmarsh common yellowthroat
- 26, San Pablo song sparrow
- 29, steelhead-central California coast esu
- 31, Suisun shrew
- 32, vernal pool fairy shrimp
- 33, western snowy plover
- Channels
- Tidal Marshes, Ponds

Source: EcoAtlas (San Francisco Estuary Institute, 1998)

0.5 0 0.5 Miles

N W E S

URS

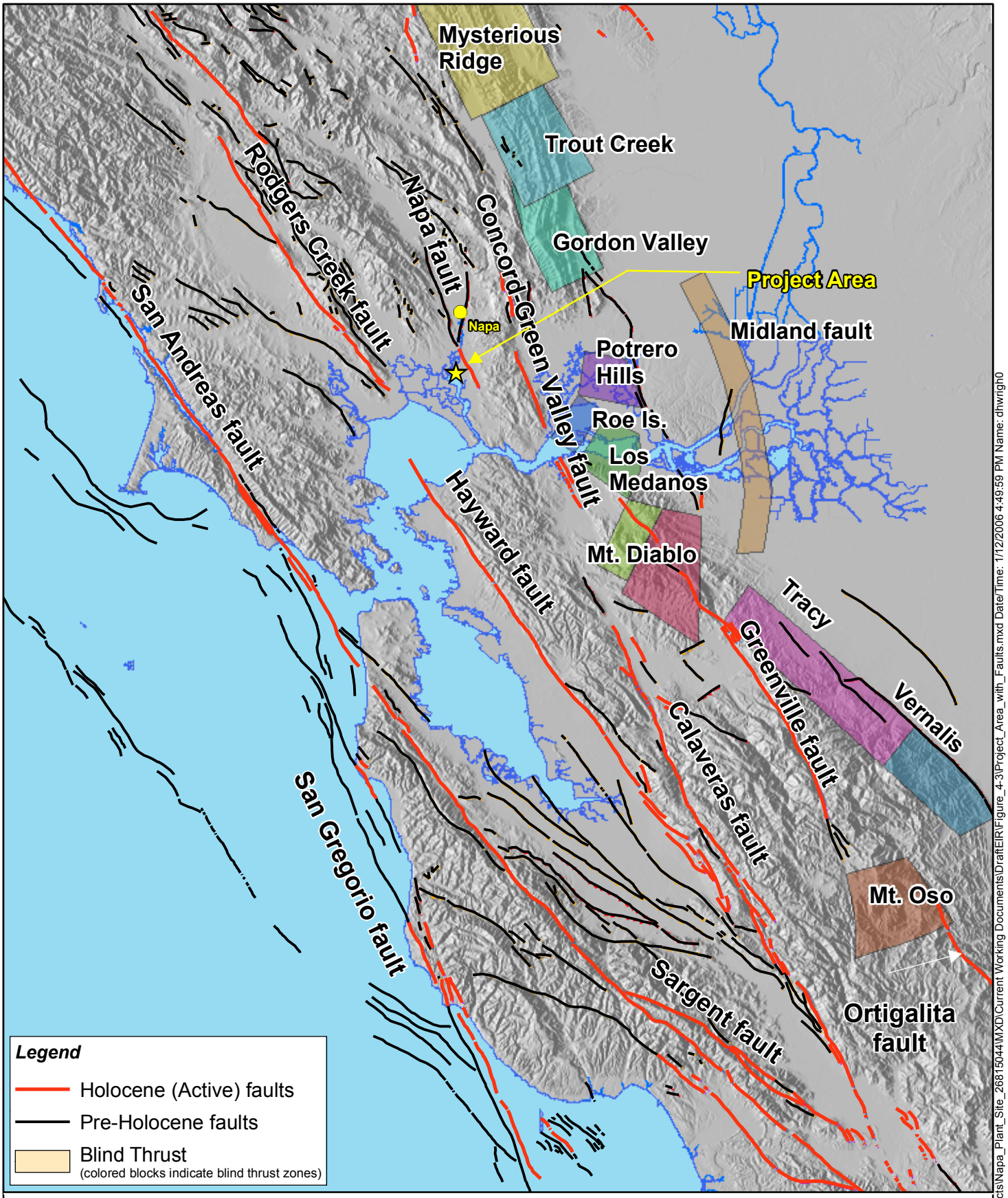
Napa Plant Site Restoration Project

26815044

CNDDB Animal Occurences

Figure 4-2b

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-2cnddb 061305.mxd Date/Time: 1/13/2006 12:44:17 PM Name: dhwrigh0



10 5 0 10 Miles

N W E S

URS

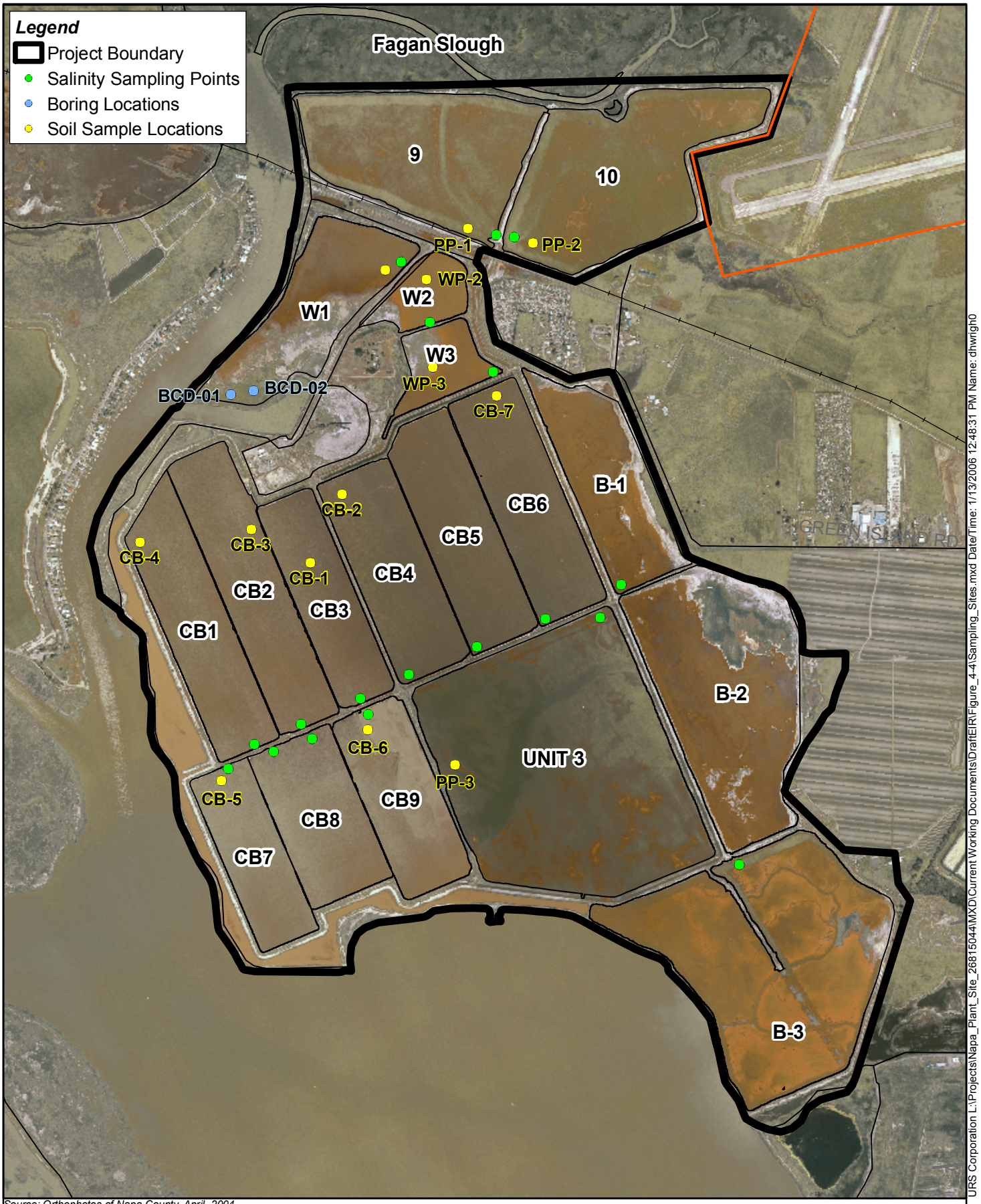
Napa Plant Site Restoration Project

26815044

Major Active Faults in the San Francisco Bay Area

Figure 4-3

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-3\Project_Area_with_Faults.mxd Date/Time: 1/12/2006 4:49:59 PM Name: dhwrigh0



Source: Orthophotos of Napa County, April, 2004

0 500 1,000 2,000 Feet

N W E S

URS

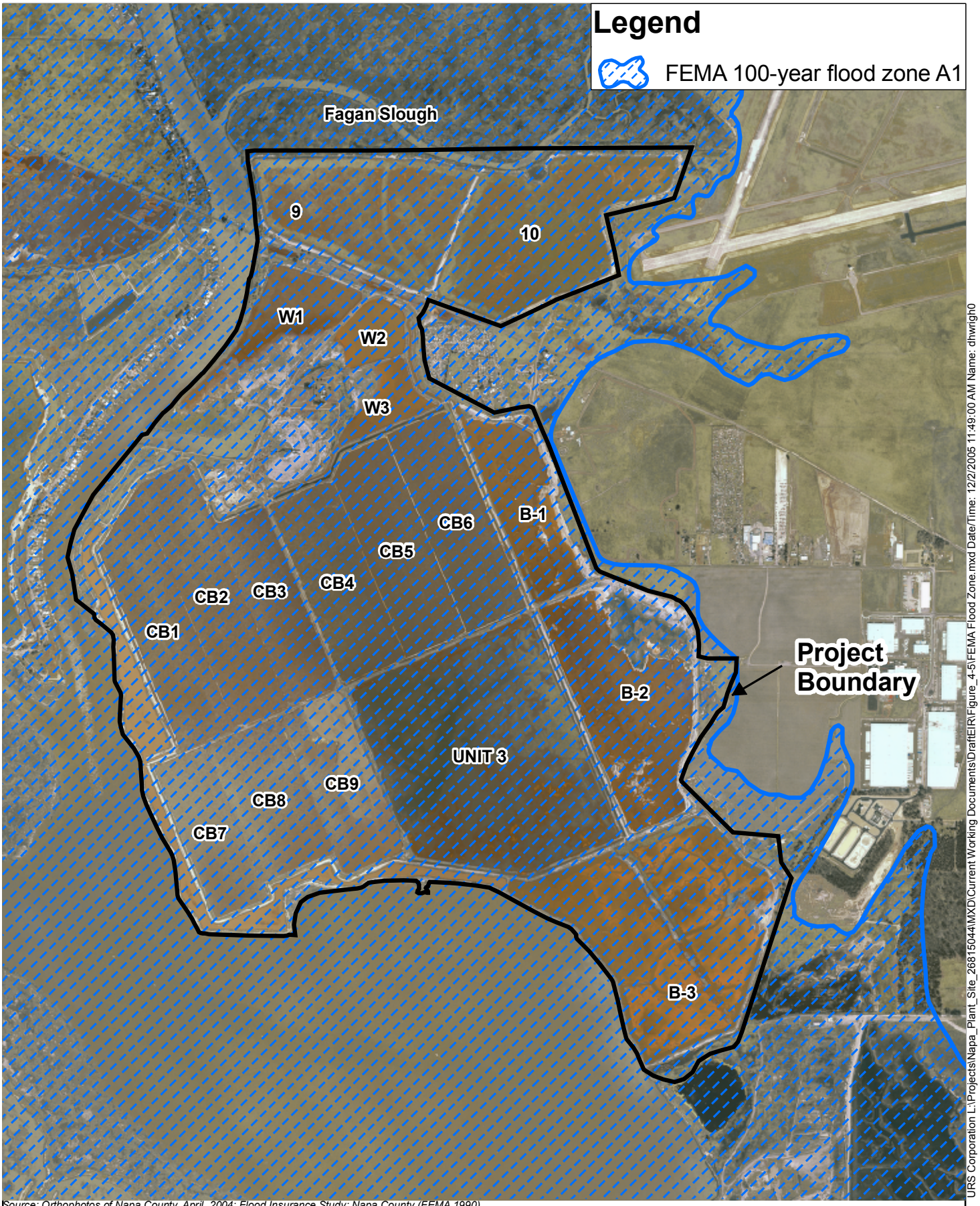
Napa Plant Site Restoration Project

26815044

Salinity and Soil Sampling Sites

Figure 4-4

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-4\Sampling_Sites.mxd Date/Time: 1/13/2006 12:48:31 PM Name: dhwrigh0



Source: Orthophotos of Napa County, April, 2004; Flood Insurance Study: Napa County (FEMA 1990)

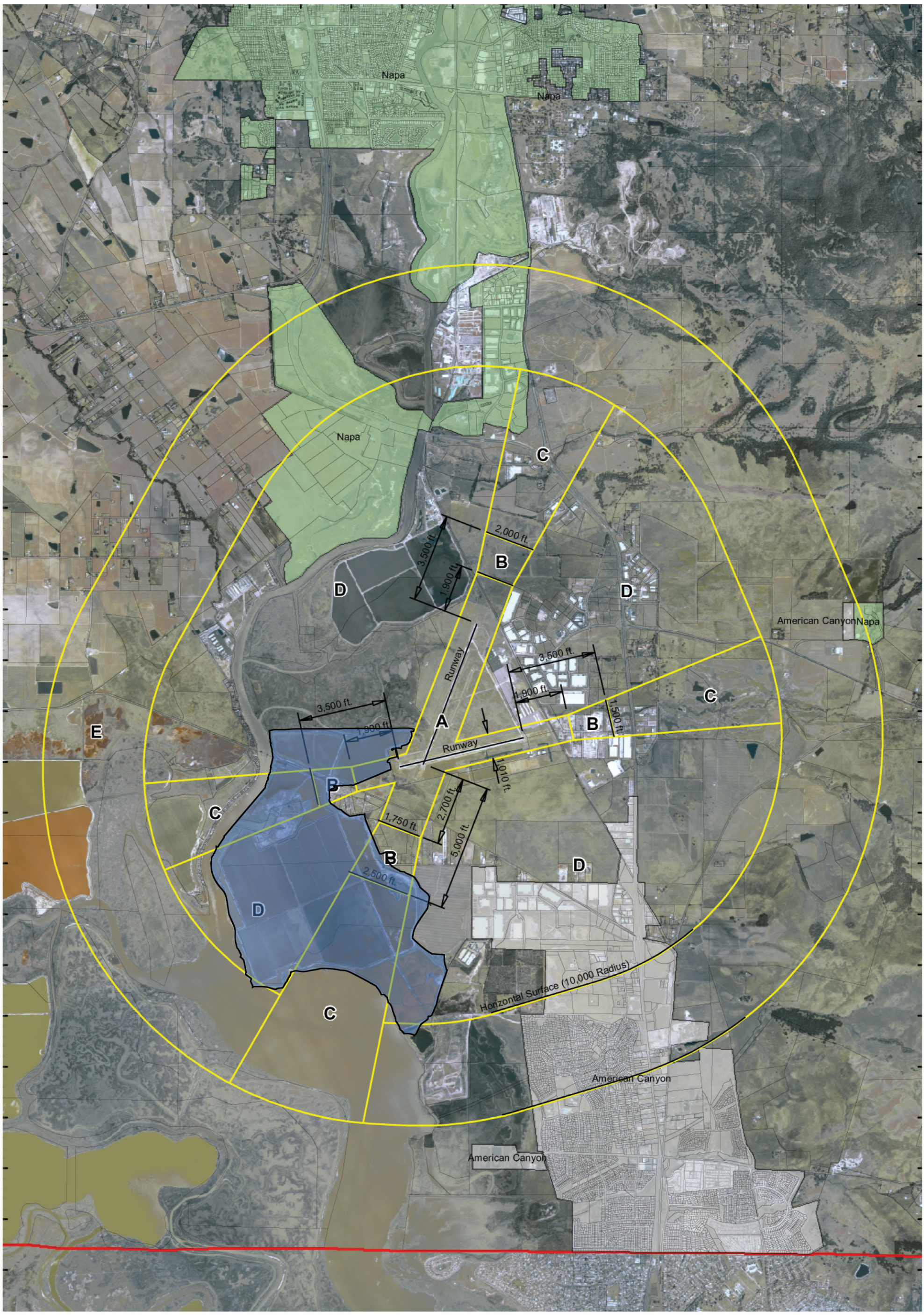
0 500 1,000 2,000 Feet

N W E S

URS

Napa Plant Site Restoration Project	FEMA 100-Year Flood Zone	Figure 4-5
26815044		

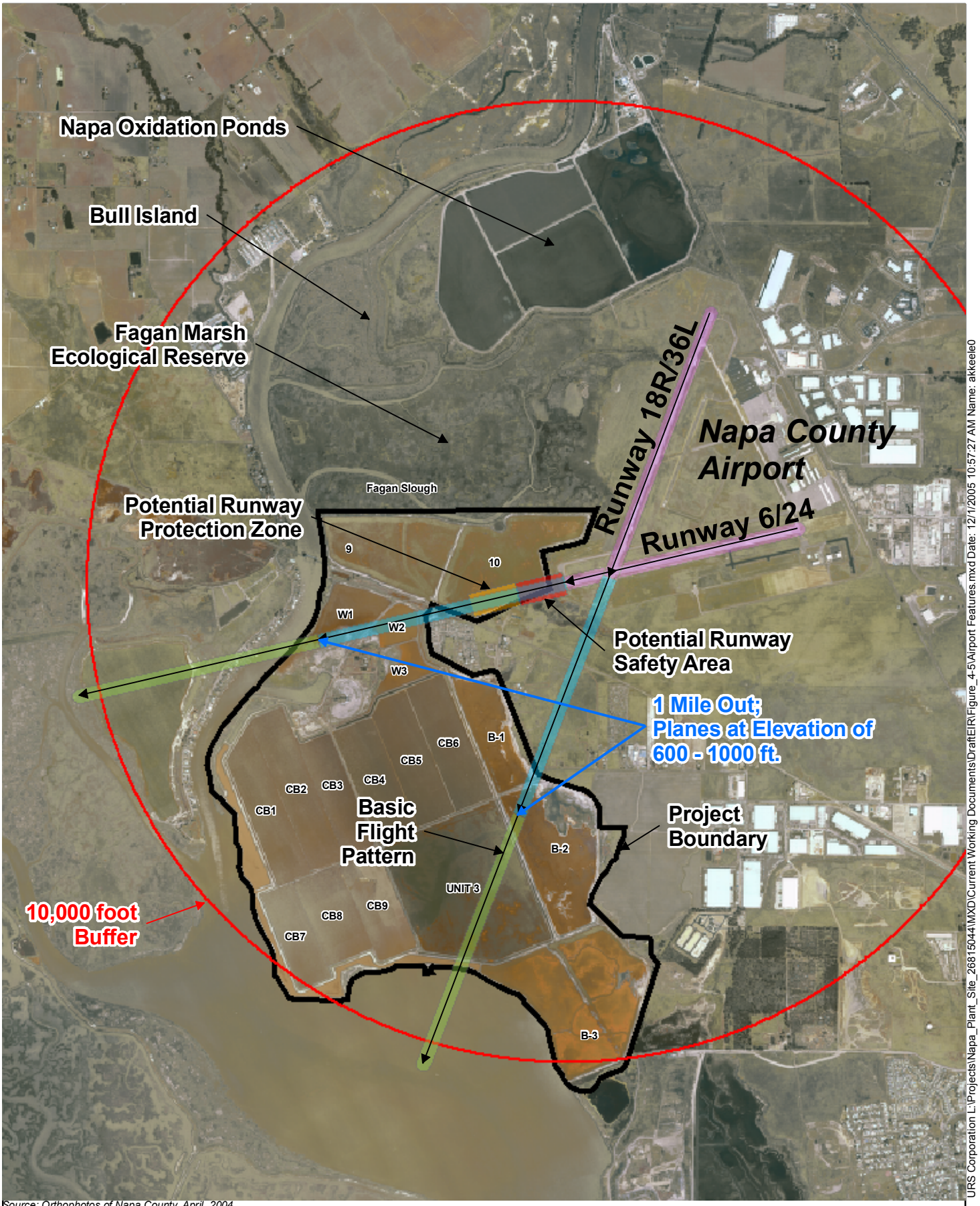
URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-5\FEMA Flood Zone.mxd Date/Time: 12/2/2005 11:49:00 AM Name: dhwrigh0



Napa County 02/07/2005

Feet
0 1,450 2,900 5,800 8,700

URS	Napa Plant Site Restoration Project 26815044	Napa County Airport Compatibility Zones	Figure 4-6



Source: Orthophotos of Napa County, April, 2004

0 0.5 1 Miles

N W E S

URS

Napa Plant Site Restoration Project	Napa County Airport Operations and Runway Safety Features	Figure 4-7
26815044		

URS Corporation L:\Projects\Napa_Plant_Site_26815044\MXD\Current Working Documents\DraftEIR\Figure_4-5\Airport Features.mxd Date: 12/1/2005 10:57:27 AM Name: akkeele0