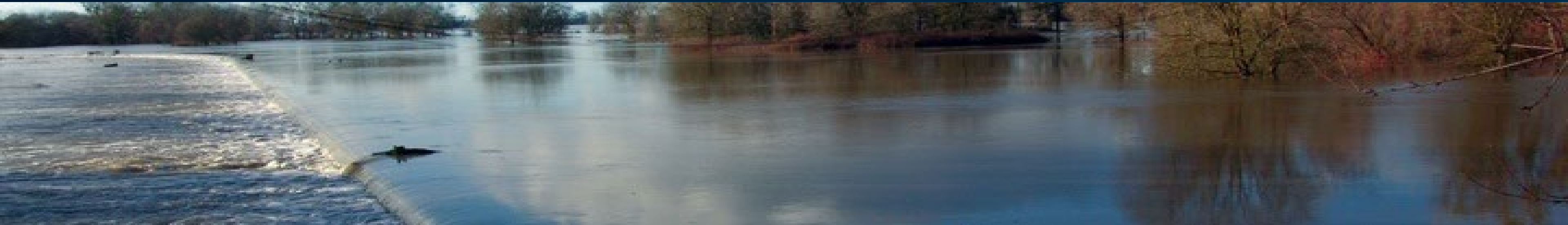


YOLO BYPASS SALMONID HABITAT RESTORATION & FISH PASSAGE (BIG NOTCH) PROJECT INFORMATIONAL BRIEFING RESOLUTIONS OF NECESSITY

March 16, 2022



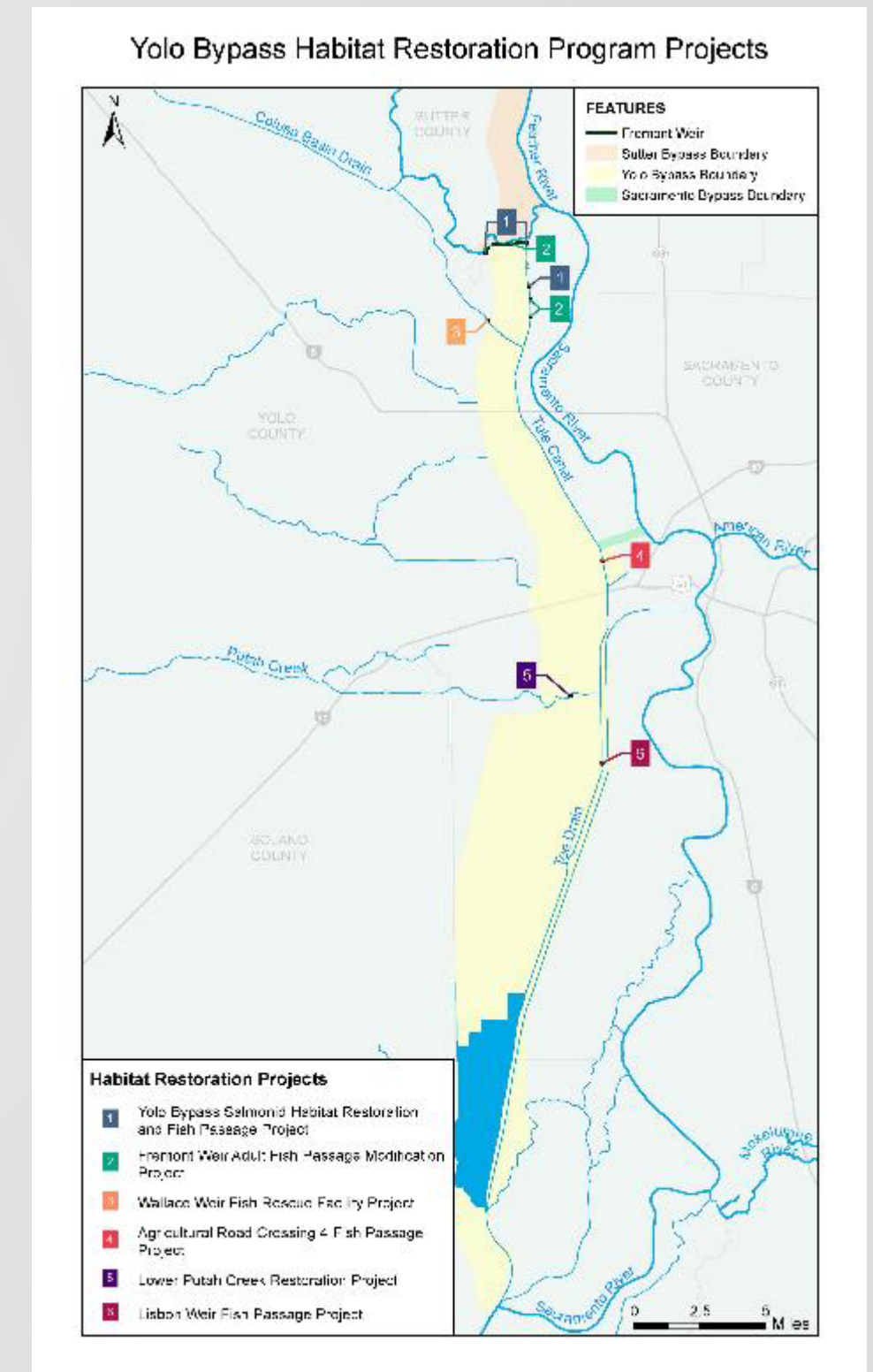
CALIFORNIA DEPARTMENT OF
WATER RESOURCES

Liz Vasquez, PM
Rachel Taylor, Attorney

Project Necessity (CCP § 1245.230(c)(1)) and Public Use (CCP § 1245.230(a))

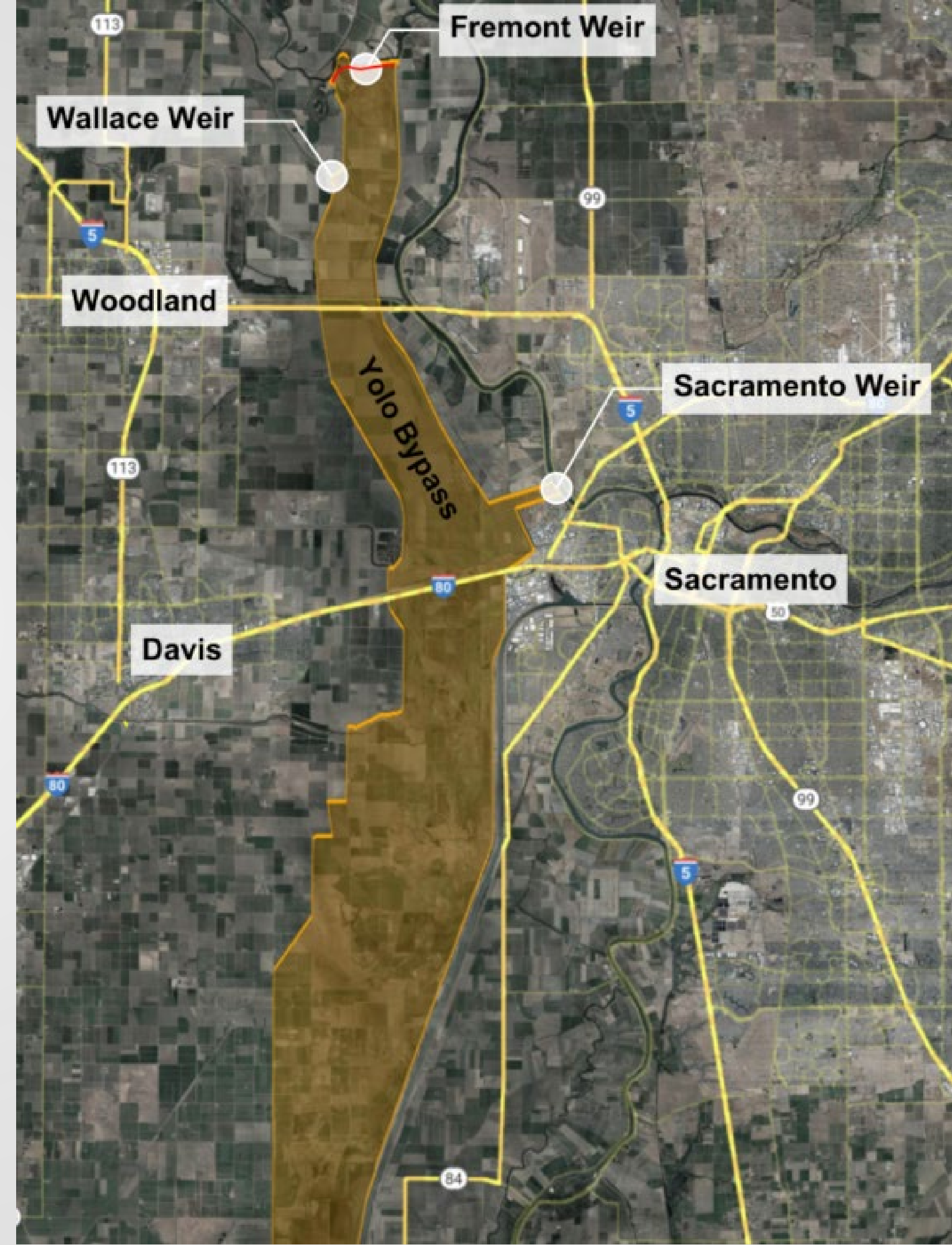
The Project will **enhance floodplain rearing habitat and fish passage** in the **Yolo Bypass** and is required for the long-term coordinated operations of the State Water Project and Central Valley Project compliance.

- 2019 National Marine Fisheries Service (NMFS) Biological Opinion (BO)
- 2020 California Department of Fish and Wildlife (CDFW) Incidental Take Permit (ITP)

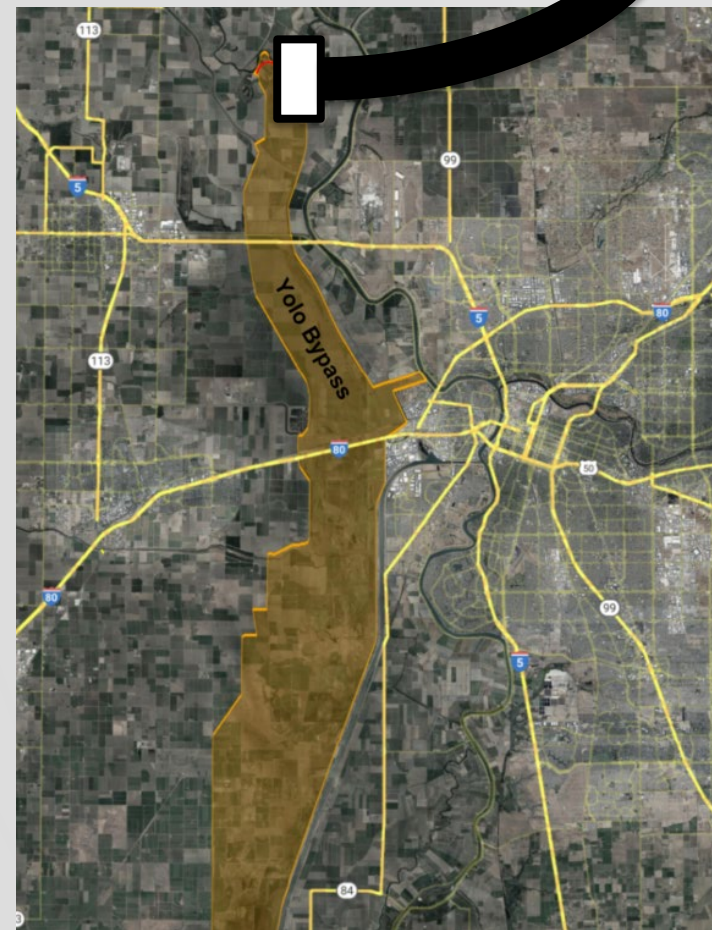


Project Description

- Fremont Weir
 - Originally constructed 1924
 - 1.8-mile-long concrete passive weir and apron
 - State Plan of Flood Control facility
 - Diverts flood water into the Yolo Bypass
 - Disconnects the Sacramento River and the floodplain during fish migration periods
- Proposed BNP includes excavated channels and a gated headworks that reintroduce the connection for fisheries purposes



Project Location



Project Design (CCP § 1245.230(c)(2))

Alternative 1 - East Side Gated Notch
Operation Period: November 1 – March 15

Three of the six alternatives studied were developed through coordination with various partners, including:

Department of Fish & Wildlife

Yolo County

Bureau of Reclamation

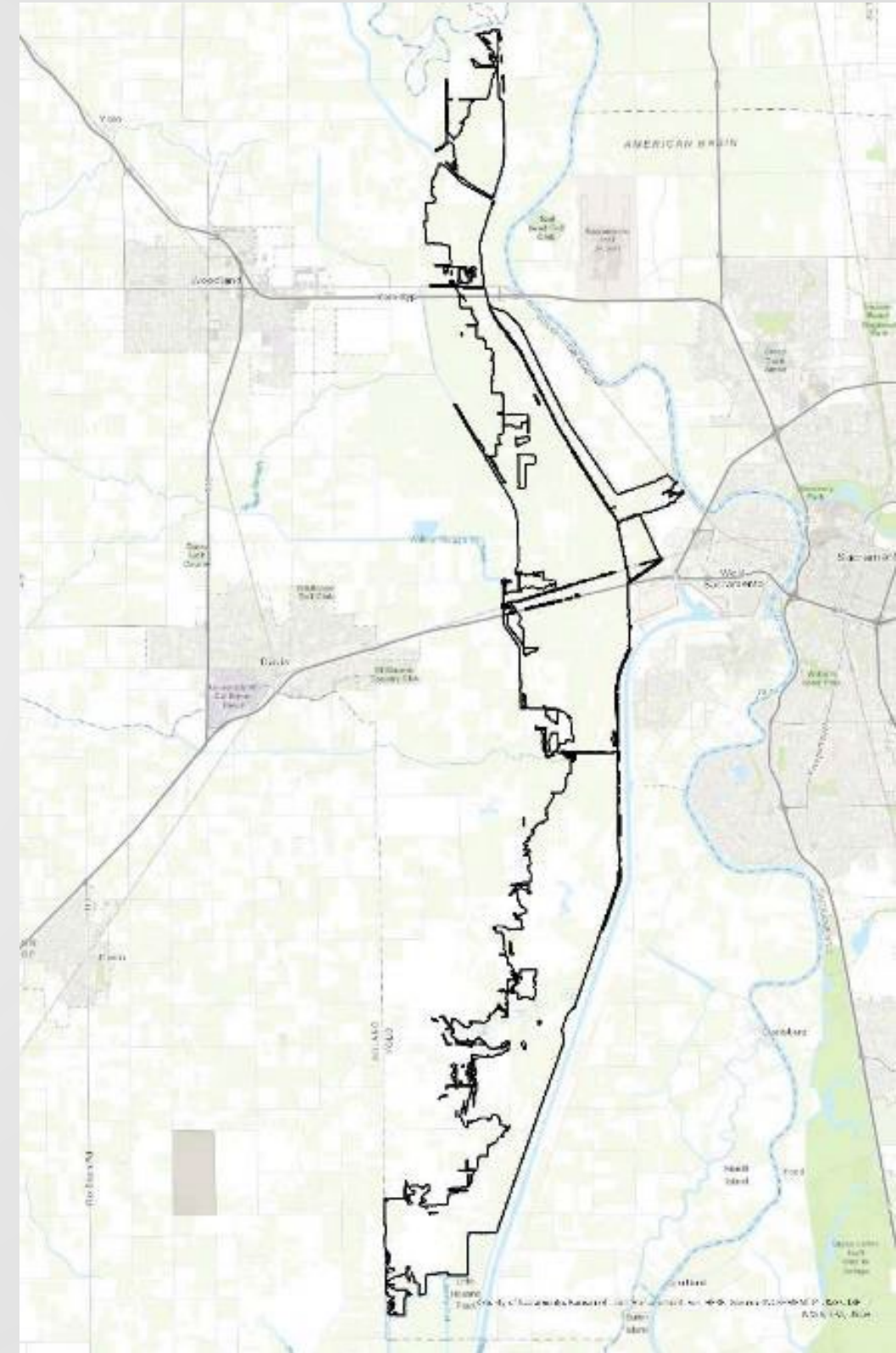
NOAA - Fisheries

NMFS

Army Corps of Engineers

Landowners

Non-Governmental Organizations



DWR Eminent Domain Authority

DWR is seeking flowage easements for the purpose of fish passage as required mitigation for the long-term operations of the State Water Project.

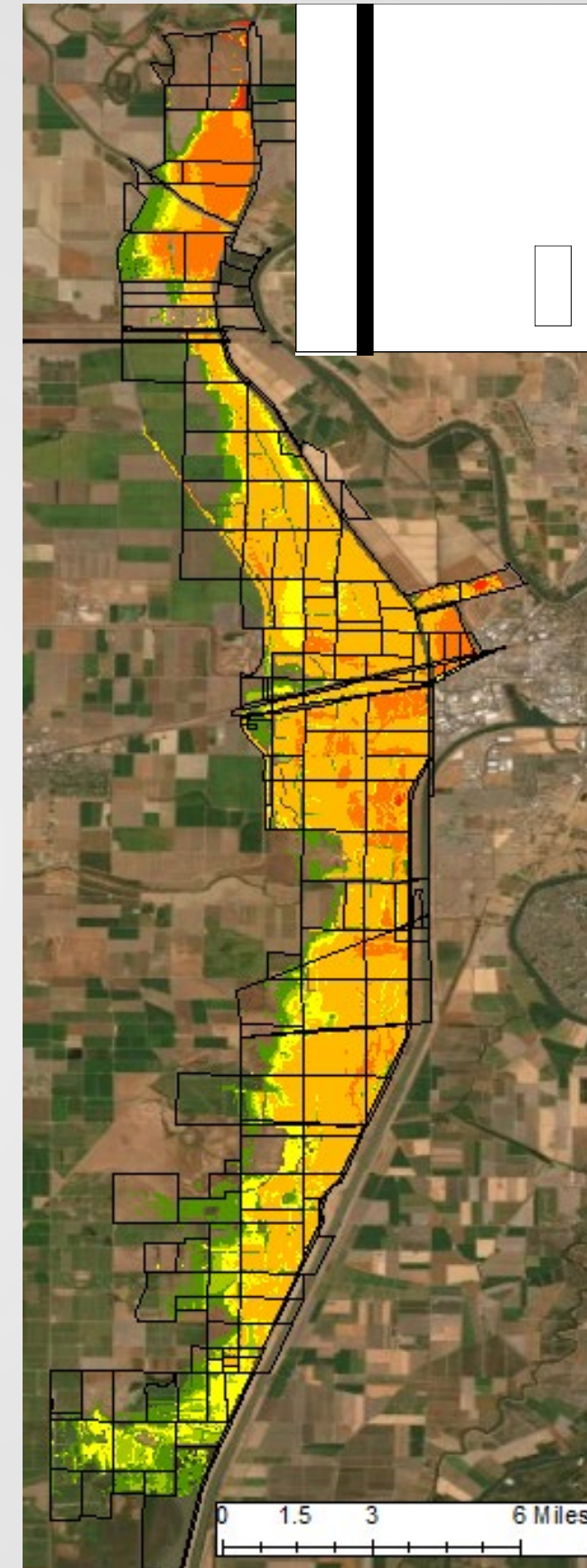
DWR has authority under Water Code §§ 250, 253, 258, 11575 and 11580 to acquire property rights required and necessary for the operation of the State Water Project.

California Code of Civil Procedure §§ 1245.210 and 1245.220 requires DWR to obtain a Resolution of Necessity from the Commission, as the appropriate governing body.

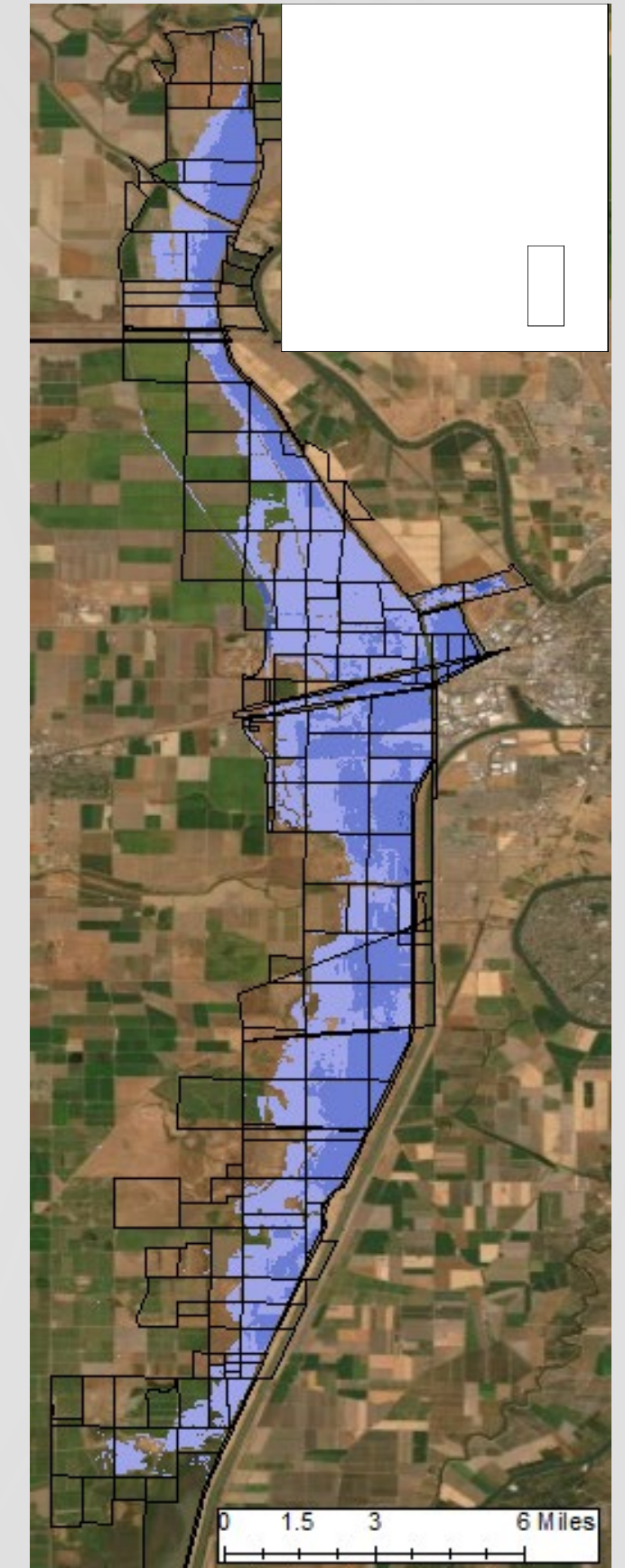


Properties Impacted (CCP § 1245.230(c)(3))

- Impacts modeled using TUFLOW (inundation model):
 - 16 water years from 1997 to 2012
 - Figures averaged over those years
 - Analysis based on difference in wetted days and depth



Average Difference in Wetted Days



Average Difference in Depth (ft)



Example

Yolo Bypass Big Notch Project

APN: 008-010-013

Owner: PATRICK REALTY CORP.

Parcel area: 3.0 acres

Area within YB: 1.8 acres

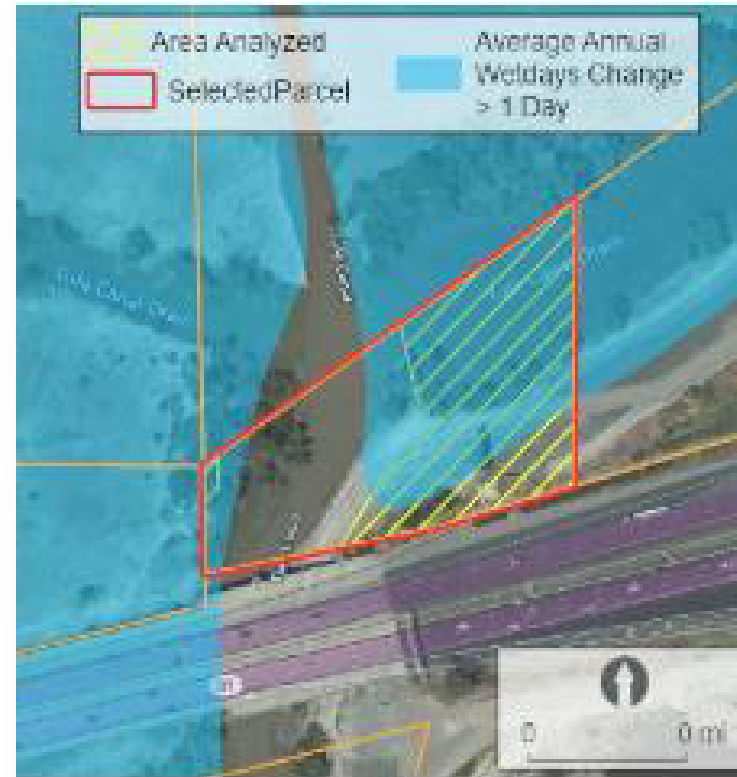
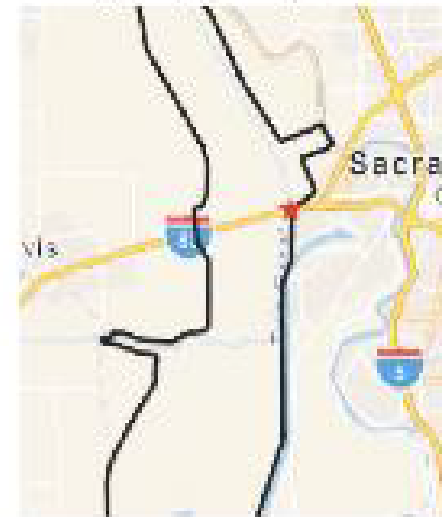
Annual wetted-days

Current: 158.2

Project: 162.2

Change: 4.1

Average depth change: 0.6



Water Year	Last Day Wet ¹		Wetdays ¹		Average Depth (ft)		
	Current	Project	Current	Project	Daily Change ²	Current	Project
1997	06-30	06-30	178	180	0.3	4.7	4.8
1998	06-30	06-30	211	212	0.3	5.3	5.5
1999	06-26	06-28	178	188	1.2	3.4	4.2
2000	06-30	06-30	153	153	0.6	3.8	4.2
2001	06-29	06-30	133	136	0.4	1.5	1.8
2002	06-30	06-30	164	168	0.5	1.9	2.2
2003	06-30	06-30	188	180	0.8	3.0	3.8
2004	06-30	06-30	178	178	0.6	3.4	3.8
2005	06-30	06-30	242	242	0.2	3.0	3.2
2006	06-30	06-30	198	200	0.3	5.5	5.7
2007	04-21	05-08	139	147	0.6	0.8	1.2
2008	05-01	05-01	110	111	0.4	2.3	2.6
2009	04-17	06-07	63	71	1.0	1.6	2.4
2010	06-01	06-02	127	129	0.6	2.7	3.1
2011	06-30	06-30	204	205	0.7	3.4	3.9
2012	05-18	05-18	63	86	0.9	1.0	1.5

¹ Parcels are classified wet if 35% or more of a parcel area is wet to ignore shallow standing water

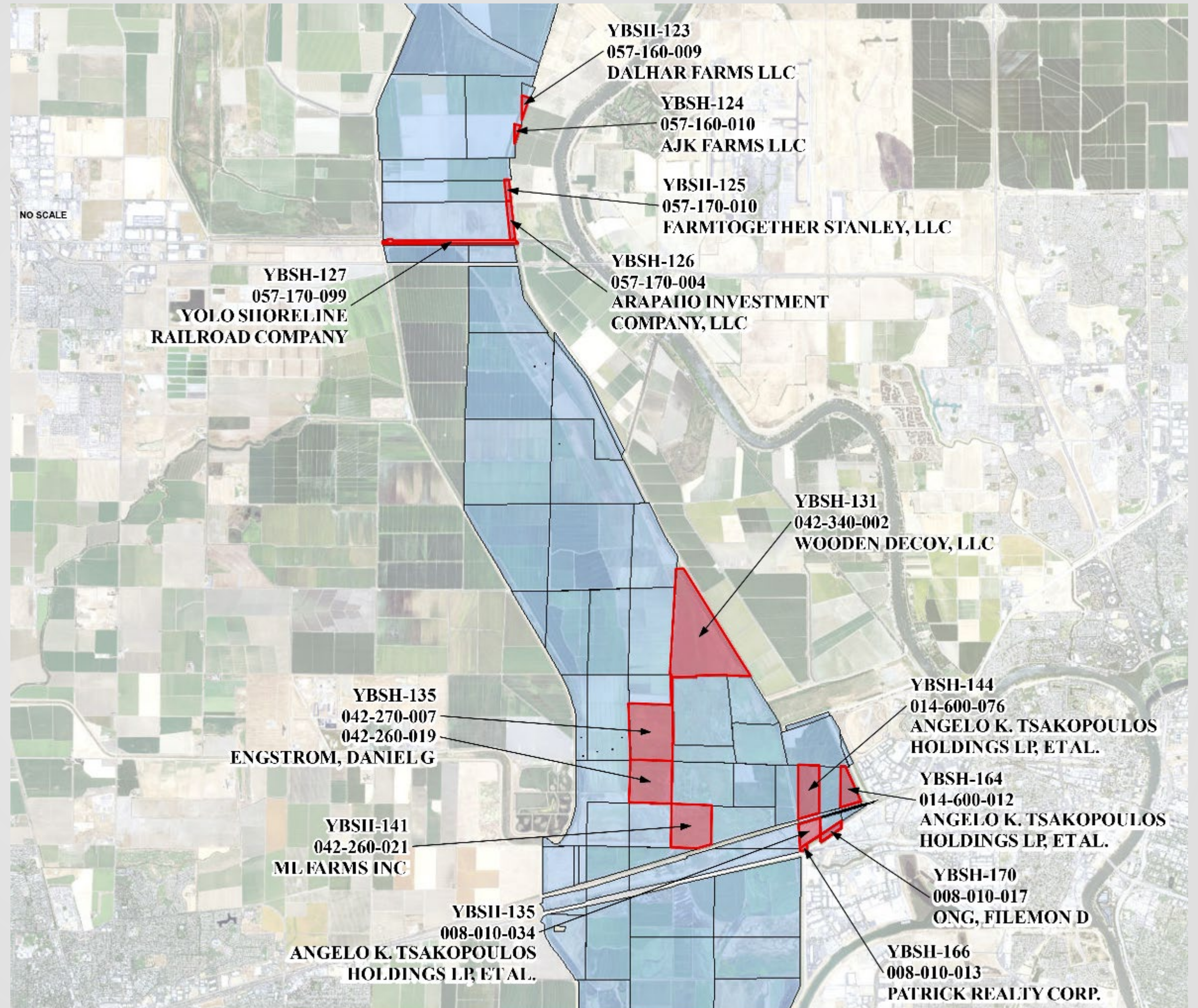
² Daily change is calculated for pixels and then averaged and may not be equal to project - current

	Monthly Average				Monthly Average Percent Area (%)													
	Depth (ft)		Wetdays		Dry		< 6 in		6-12 in		12-18 in		18-24 in		24-36 in		>36 in	
	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project
November	1.2	1.2	4.9	4.9	92.4	92.2	2.5	2.2	1.0	0.8	0.5	1.2	2.2	2.2	1.6	0.9	0.0	0.4
December	2.6	3.3	16.2	16.8	73.5	71.6	2.7	1.9	3.0	2.2	2.9	2.1	3.5	3.5	5.4	5.1	8.9	13.6
January	4.5	4.9	22.8	23.2	59.0	57.5	3.2	2.4	4.2	3.3	3.8	1.5	2.2	2.4	2.5	4.4	25.0	28.4
February	4.1	4.5	25.4	26.3	50.9	48.0	2.8	3.0	5.0	3.5	4.7	4.0	2.5	2.2	7.4	5.9	26.7	33.5
March	3.8	4.1	30.1	30.4	48.1	46.5	5.6	3.5	6.6	5.4	4.3	4.8	3.9	3.7	5.6	5.6	25.8	30.6
April	3.1	3.3	25.4	26.0	56.4	54.9	8.5	8.3	4.3	3.8	4.3	3.4	4.4	3.1	5.1	5.5	17.2	20.9
May	2.2	2.6	17.2	15.2	72.5	70.2	6.0	6.0	3.5	3.5	2.3	1.3	2.7	2.1	4.0	3.8	9.1	13.1
June	1.7	1.7	16.1	16.3	74.2	73.8	6.5	6.6	4.9	5.0	4.5	4.2	2.5	2.6	3.2	3.3	4.2	4.4

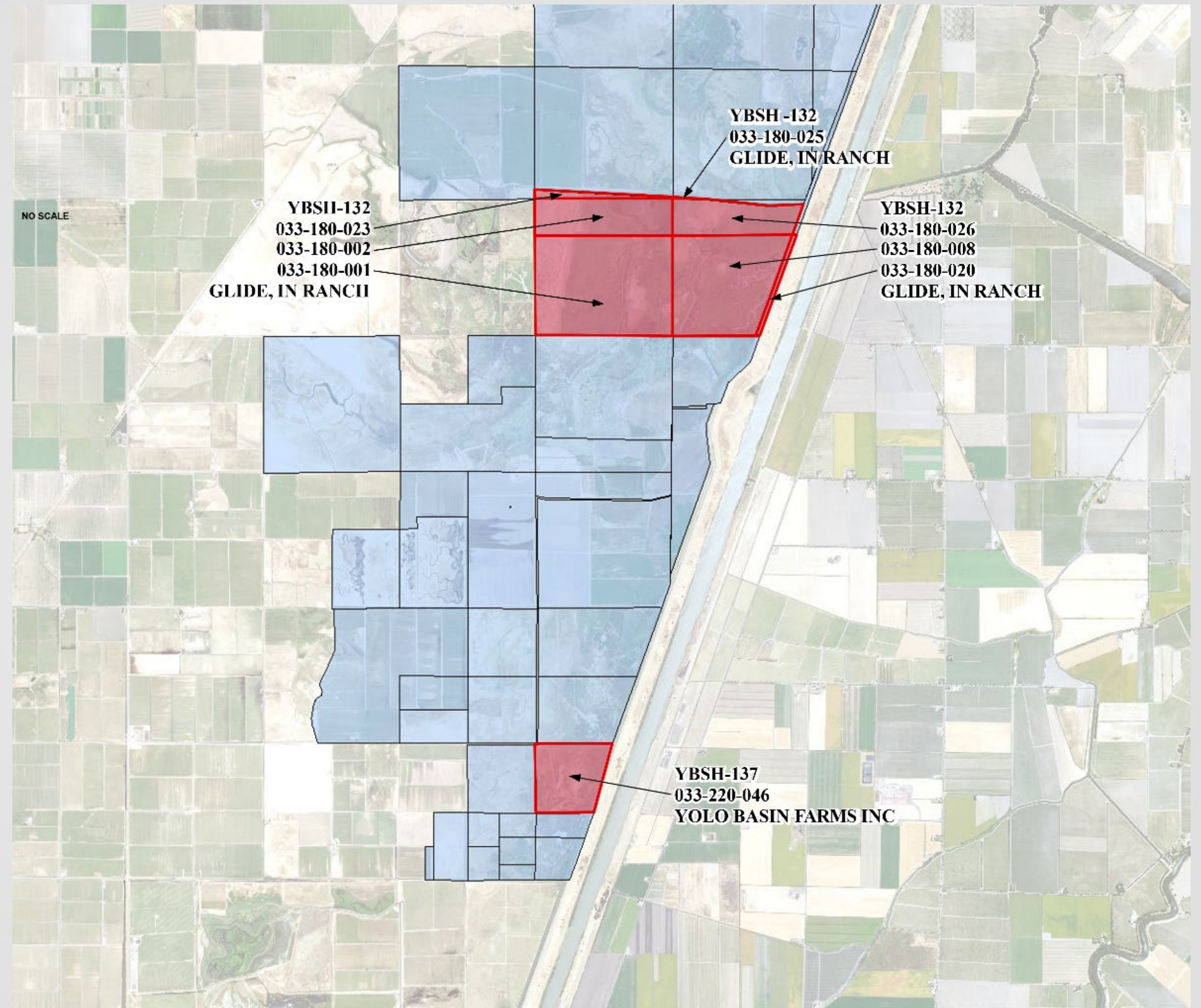
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Properties in Relation to the Project



Properties in Relation to the Project



Agenda Item 8A

Yolo Basin Farms Inc.

APN: 033-220-046

DWR Parcel No. YBSH-137

Agenda Item 8B

Daniel G. Engstrom, et al.

APNs: 042-270-007 and 042-260-019

DWR Parcel No. YBSH-135

Agenda Item 8C

Filemon D. Ong

APN: 008-010-017

DWR Parcel No. YBSH-170



Agenda Item 8D

Glide in Ranch

APNs 033-180-001, 033-180-002, 033-180-008, 033-180-020, 033-180-023, 033-180-025,
and 033-180-026

DWR Parcel No. YBSH-132

Agenda Item 8E

FarmTogether Stanley, LLC

APN: 057-170-010 (portion)

DWR Parcel No. YBSH-125

Agenda Item 8F

ML Farms Inc.

APN: 042-260-021

DWR Parcel No. YBSH-141



Agenda Item 8G

AJK Farms, LLC

APN: 057-160-010 (portion)

DWR Parcel No. YBSH-124

Agenda Item 8H

Dalhar Farms, LLC

APN: 057-160-009 (portion)

DWR Parcel No. YBSH-123

Agenda Item 8I

Angelo K. Tsakopoulos Holdings LP, et al.

APNs: 014-600-076, 014-600-012, and 008-010-034

DWR Parcel No. YBSH-144, YBSH-164, YBSH-165



Agenda Item 8J

Yolo Shortline Railroad Company

APN: 057-170-099 (portion)

DWR Parcel No. YBSH-127

Agenda Item 8K

Arapaho Investment Company, LLC

APN: 057-170-004 (portion)

DWR Parcel No. YBSH-126

Agenda Item 8L

Wooden Decoy, LLC

APN: 042-340-002

DWR Parcel No. YBSH-131

Agenda Item 8M

Patrick Realty Corp.

APN: 008-010-013

DWR Parcel No. YBSH-166

