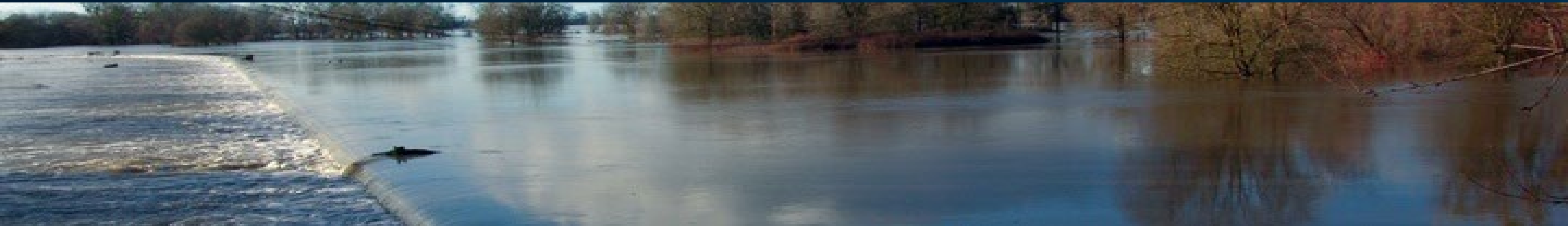


# YOLO BYPASS SALMONID HABITAT RESTORATION & FISH PASSAGE (BIG NOTCH) PROJECT INFORMATION IN SUPPORT OF RESOLUTIONS OF NECESSITY

April 20, 2022



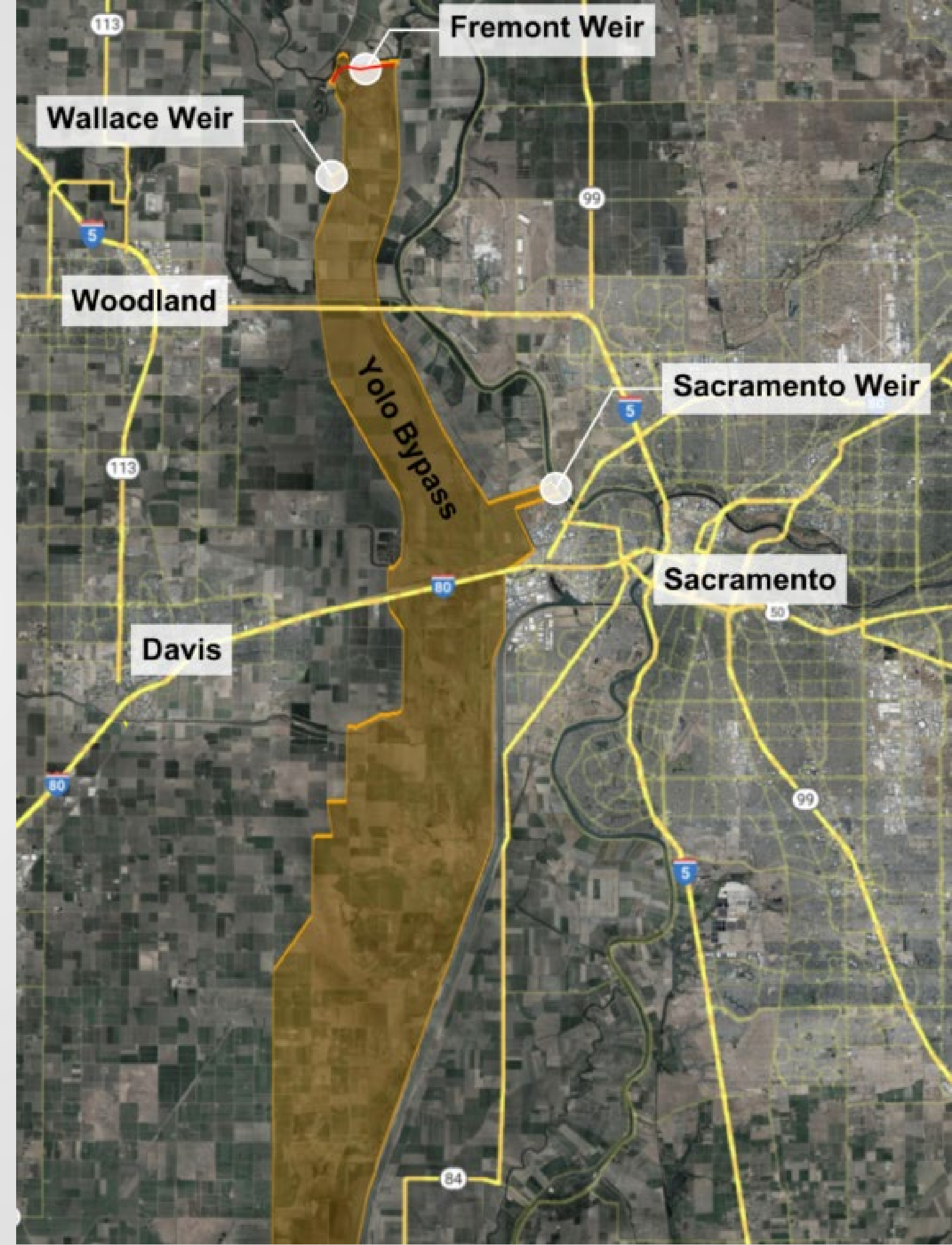
CALIFORNIA DEPARTMENT OF  
WATER RESOURCES

Liz Vasquez, PM  
Rachel Taylor, Attorney

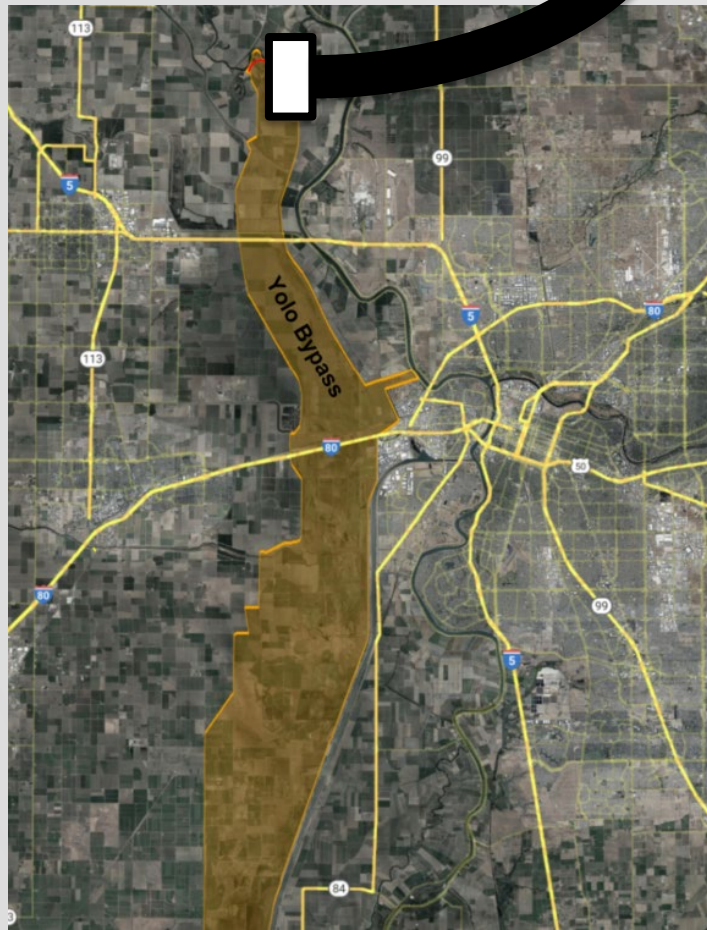


# Project Description

- 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

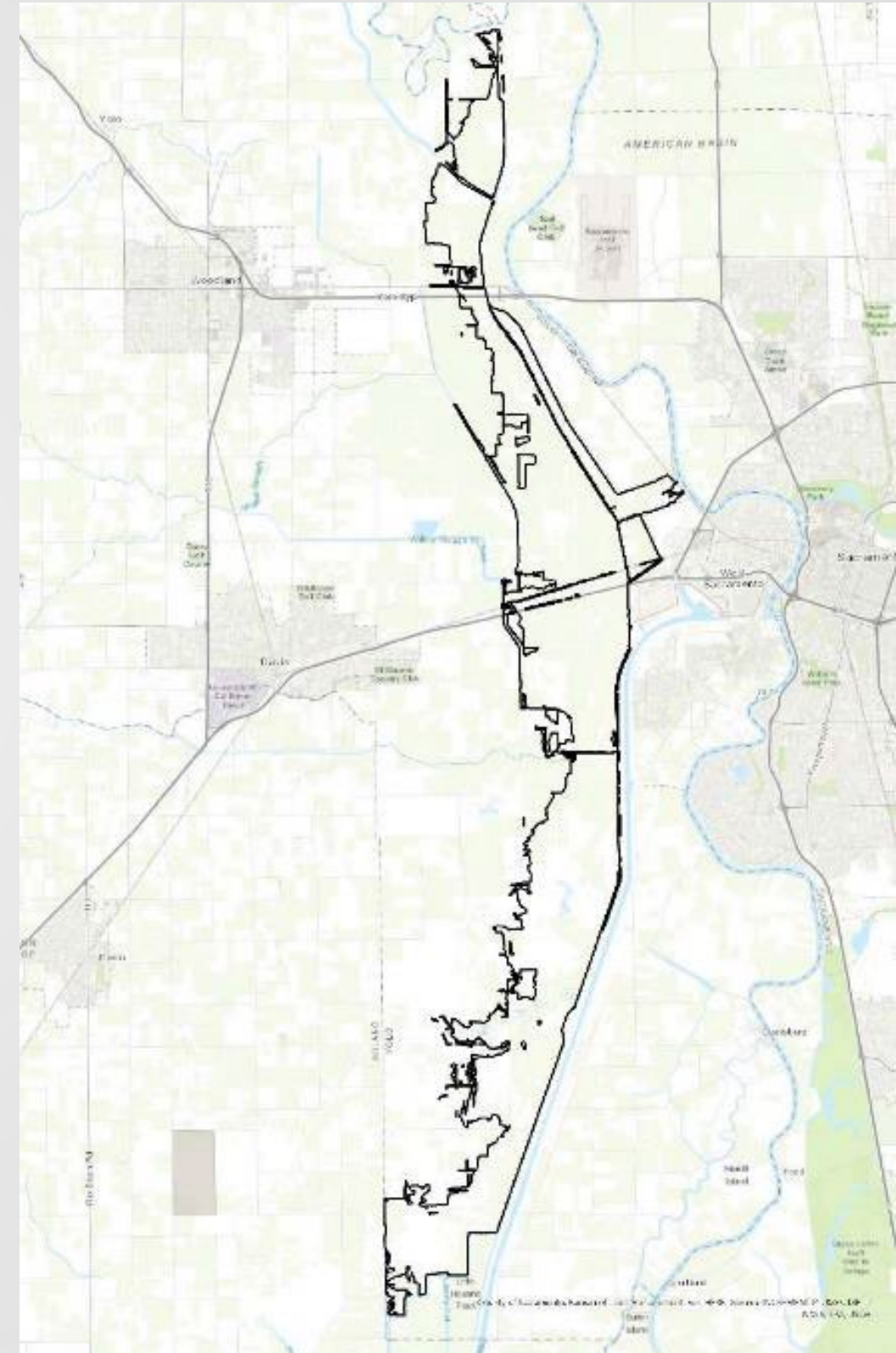
NMFS

Army Corps of Engineers

US Fish and Wildlife

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.

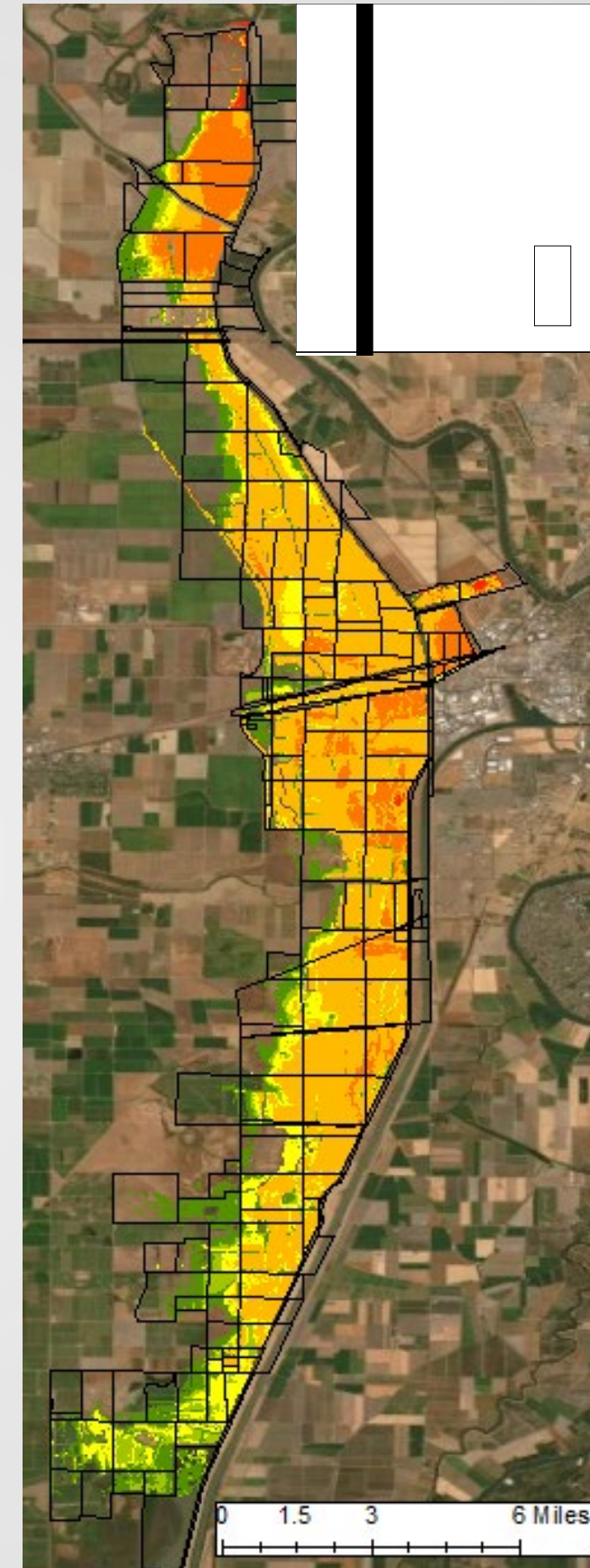
DWR has authority under Water Code §§ 250, 253, 258, 11575 and 11580 to acquire property rights required and necessary for the operation of the State Water Project.

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.

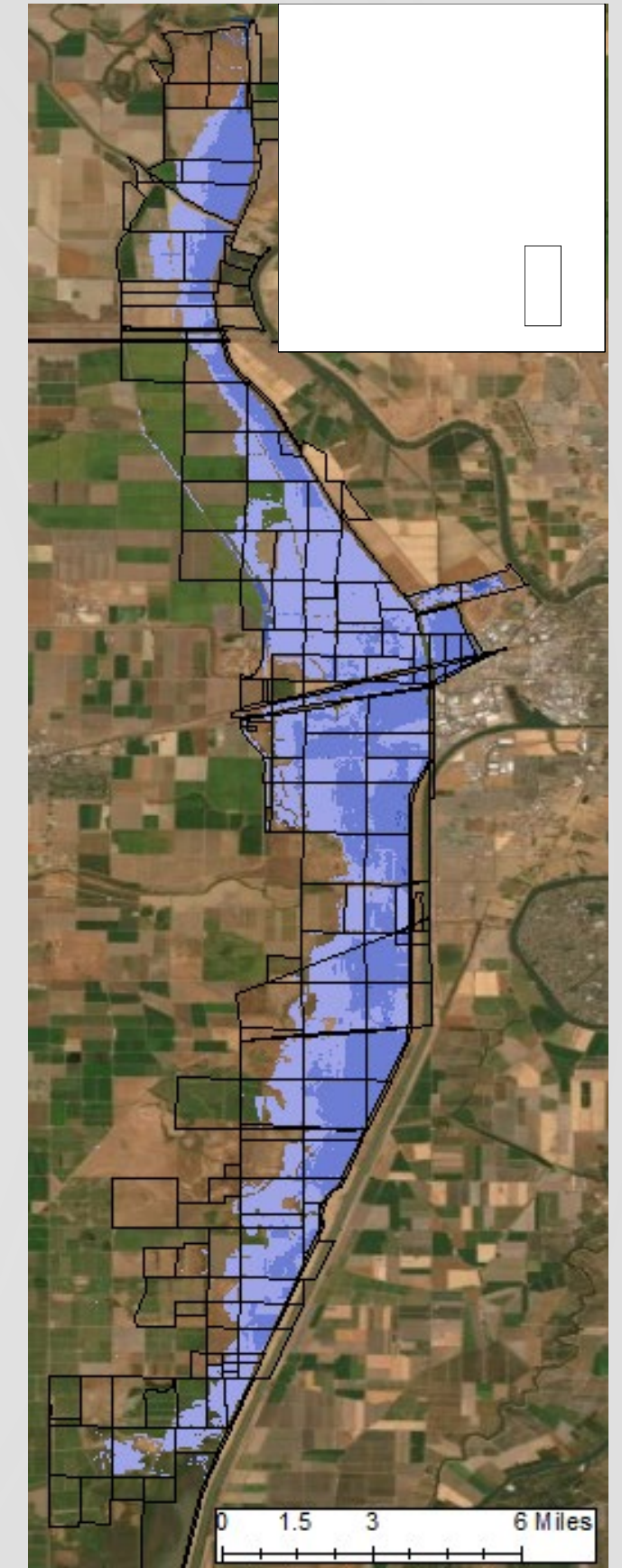


# Properties Impacted (CCP § 1245.230(c)(3))

- 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

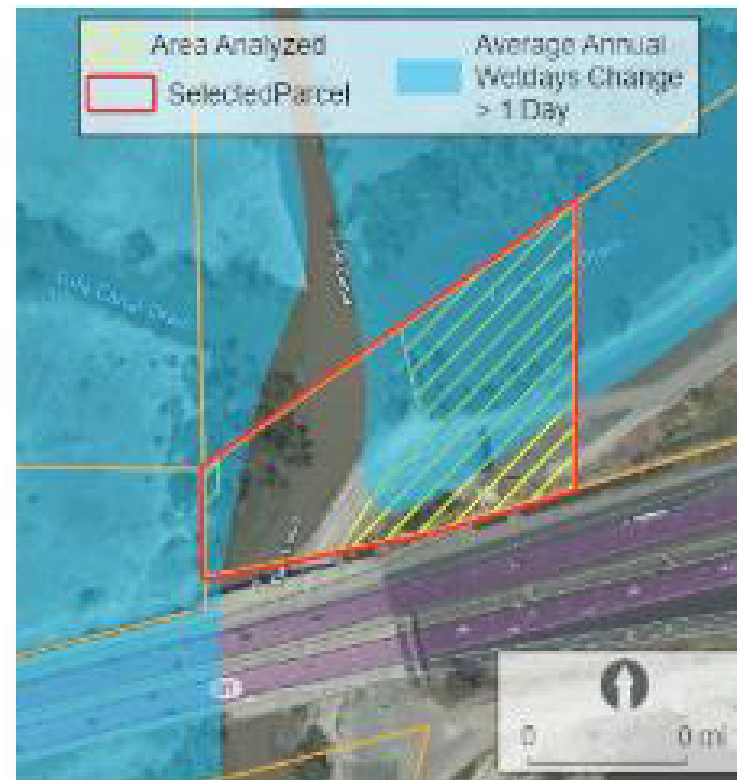
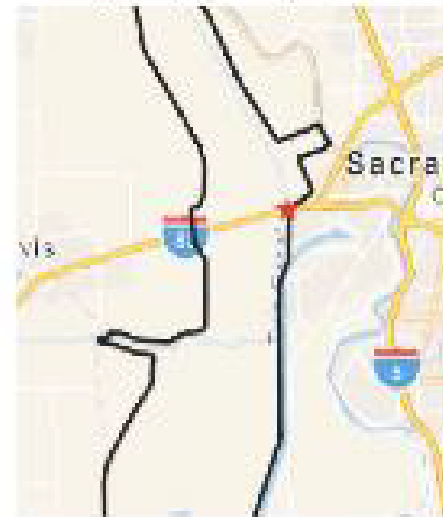
Annual wetted-days

Current: 158.2

Project: 162.2

Change: 4.1

Average depth change: 0.6



Water Year	Last Day Wet <sup>1</sup>		Wetdays <sup>1</sup>		Average Depth (ft)		
	Current	Project	Current	Project	Daily Change <sup>2</sup>	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

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

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

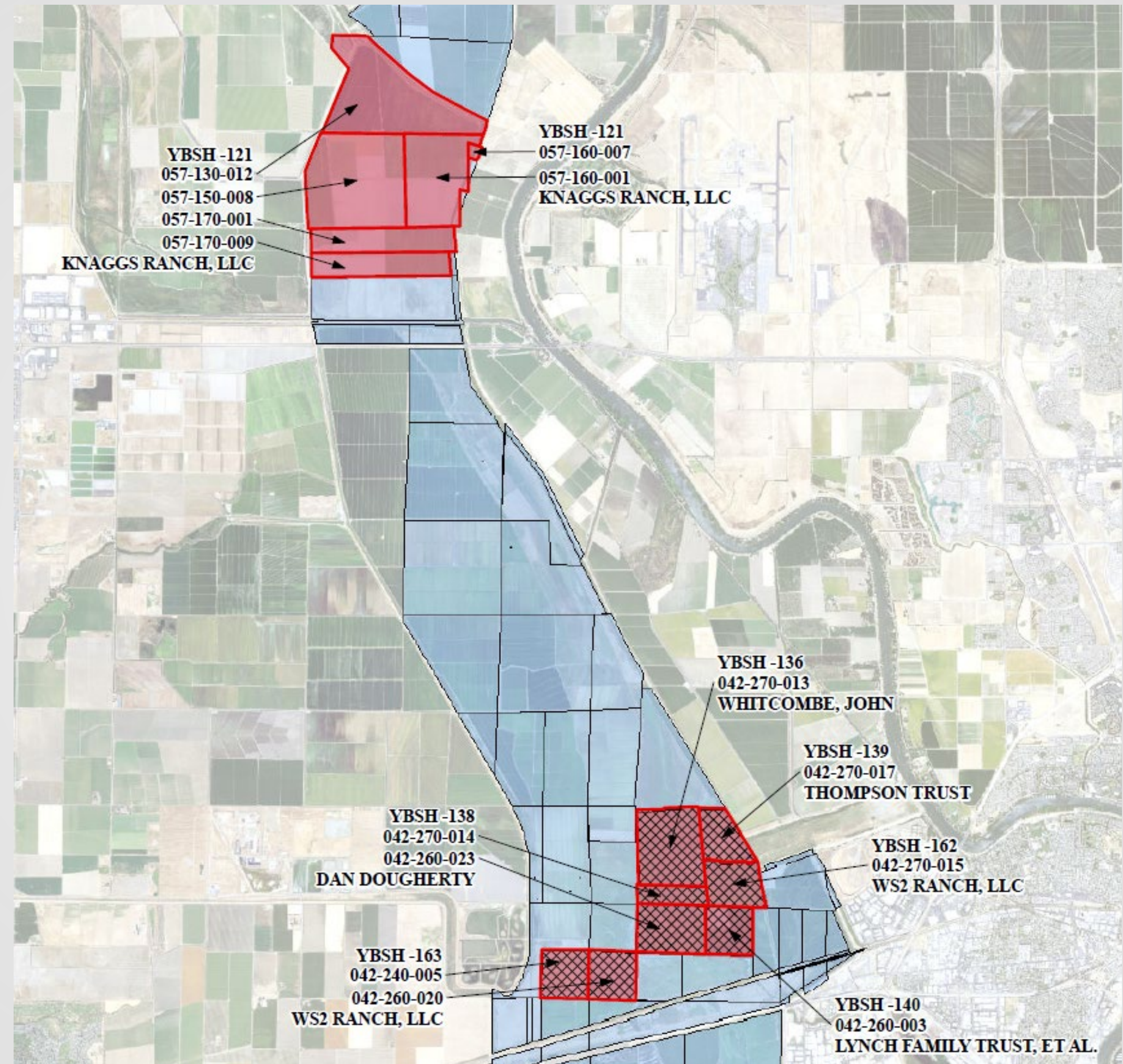
	Monthly Average				Monthly Average Percent Area (%)													
	Depth (ft)		Wetdays		Dry		< 6 in		6-12 in		12-18 in		18-24 in		24-36 in		>36 in	
	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project	Current	Project
November	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

All information provided by the Department of Water Resources made available to provide immediate access for those with need of immediate purposes. While the Department believes the information to be reliable, human or mechanical error is a possibility. Therefore, the Department does not guarantee the accuracy, completeness, timeliness, or correct sequencing of the information. Neither the Department of Water Resources nor any of the sources of the information shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information.





# Properties in Relation to the Project



## Agenda Item 10A

**Dan and Neil Dougherty, et al.**

APN(s): 042-270-014 and 042-260-023

DWR Parcel No. YBSH-138

Acres: 323.54±

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

Conservation Easement: US Fish and Wildlife Service

Notice of Intent to Acquire: January 24, 2022



## Agenda Item 10B

**John and Judy Whitcombe, et al.**

APNs: 042-270-013

DWR Parcel No. YBSH-136

Acres: 338.21±

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

Conservation Easement: US Fish and Wildlife Service

Notice of Intent to Acquire: January 24, 2022



## **Agenda Item 10C**

### **WS2 Ranch, LLC**

APN: 042-270-015, 042-240-005, and 042-260-020

DWR Parcel No. YBSH-162 & -163

Acres: 493±

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

Conservation Easement: US Fish and Wildlife Service

Notice of Intent to Acquire: January 24, 2022



## Agenda Item 10D

### Ray and Della Thompson Trust, et al.

APNs 042-270-017

DWR Parcel No. YBSH-139

Acres: 142.09±

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

Conservation Easement: US Fish and Wildlife Service

Notice of Intent to Acquire: January 24, 2022



## **Agenda Item 10E**

### **Lynch Family Trust, et al.**

APN: 042-260-003

DWR Parcel No. YBSH-140

Acres: 160± acres

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

## **Agenda Item 10F**

### **Knaggs Ranch, LLC**

APN: 057-130-012, 057-150-008, 057-160-001, 057-160-007, 057-170-001, and  
057-170-009

DWR Parcel No. YBSH-121

Acres: 2,140±acres

First Written Offer: January 24, 2022

Notice of Informational Hearing: March 24, 2022

