WESTSIDE SAC IRWM
Integrated Regional Water Management Plan

Notice of Public Meeting

COORDINATING COMMITTEE REGULAR BUSINESS MEETING

Date: Wednesday, September 12, 2018 **Time**: 10:00 am - Noon
Location: : Solano County Water Agency, 810 Vaca Valley Parkway, Suite 203, Vacaville, CA 95688
Call-in number: 800-510-5879 **Guest Code**: 385498

AGENDA

1. **Call Meeting to Order and Introductions** –Sabatini, Chair (5 min)
2. ***Approve Consent Agenda** – Sabatini (5 min)
   a. **Approve Today's Agenda ****To add an item to the agenda, see note below**
   b. **Approve Minutes for July 11th Regular Meeting in Lake County**
   c. **Financial Report, YCRCD**
   d. **Coordinating Committee Financial Report, SCWA**
   e. **Approve Will Evans as Lake County CC Representative and David Cowan as Alternate**
3. ***** Public Comment:** This is time reserved for the public to address the Coordinating Committee on matters not on the agenda (5 min)
4. **DWR Update** – Tang (5 min)
5. ***Report – UC Davis Disadvantaged/Unincorporated Community & Public Water System Study** – London (20 min)
6. ***DWR DACI Grant Update and Work Plan Approval** – Lessard/Burdick (15 min)
7. ***Brownfields Project – Updates, Work Plan Revision Approval, Schedule Meetings with County Staff/Supervisors** – McCord (5 min)
8. ***Prop 1 Application Process Readiness** – Sabatini (20 min)
   a. ***Ranking of IRWM and SWRP Projects for Prop 1 Round 1 RFP** – Kennedy/Jenks
   b. ***Status of Westside IRWM Plan Update** – Kennedy/Jenks
   c. **Funding Area Coordination** – Burdick/Lessard
9. ***Attendance at Roundtable of Regions IRWM/DACI Summit, Fall 2018** – Sabatini (10 min)
10. **2017-18 Annual Work Plan Review –** Sabatini (5 min)
11. **2018-19 Annual Work Plan Development –** Sabatini (10 min)
12. **CC Member Reports, Regional Activities and Updates** – all (5 min)
13. **Confirm Next Meeting Date and Location:** Wednesday, November 14th, 10:00 am, Napa County.
14. **Adjourn**

*Indicates Action Item
** Consideration of items not on the posted agenda: items must fit one of the following categories: 1) a majority determination that an emergency

(as defined by the Brown Act) exists; or 2) a three-fourths vote by Coordinating Committee members present that the need to take action arose subsequent to the agenda being posted.
*** Members of the public may address any subject that is not otherwise on the agenda during Public Comment. Reasonable time limits will be imposed.

I declare under penalty of perjury that the foregoing was posted prior to 10 am on July 6, 2018 on the door of the Lake County Water Resources Dept.

Elisa Sabatini, Chair _____ Date_____

REGULAR BUSINESS MEETING MINUTES
WESTSIDE Sac IRWM Coordinating Committee
DATE: July 11, 2018 **SCHEDULED TIME:** 10:00 AM – Noon
LOCATION: Lake County Department of Water Resources, 255 N. Forbes St., Lakeport, CA 95453
Coordinating Committee Members Attending:

	County		Representative		Alternate
	Lake	✓	David Cowan, Director, Lake Cty. DWR		Position not yet filled
	Napa	✓	Chris Silke, County of Napa		Jeff Sharp, Napa Cty. Flood Control, phone
	Solano	✓	Chris Lee, SCWA (phone)		Sabrina Colias, SCWA
	Yolo	✓	Elisa Sabatini, Chair, Water Res. Assn. (phone)	✓	Max Stevenson, YCFCWCD

Others Present:
Karola Kennedy – Elem Indian Colony; Alison Tang – DWR; Stephen McCord, PhD; Tim Busch and Matt Cohen – City of Woodland Dept. of Public Works; Janet Coppinger – Lake County Special Districts; Thi Pham – RCAC (phone); JoAnna Lessard – Cramer Fish Sciences and DACI Project Manager (phone) ; Jennifer Lau Larsen and Sachi Itagaki – Kennedy/Jenks (phone); Jeanette Wrysinski – Yolo County RCD/Westside IRWM Administrative Coordinator.

1. **Call Meeting to Order and Introductions**. The meeting was called to order at 10:32 a.m. by Yolo County Alternate Max Stevenson since Chair Sabatini was participating by phone. He called for self-introductions. The delay in start time was due to the regular conference call line being down and efforts to engage an alternate call-in line and notify the interested public.
2. **Approve Consent Agenda.** Two items on the Consent Agenda were discussed prior to a vote. Mr. Stevenson and Ms. Sabatini both expressed potential interest in attending the California Land Recycling Conference in Carson, CA and said they would contact Dr. McCord directly. Mr. Stevenson read through the list of new projects and clarified the name of number 8 to "City of Davis Recycled Water Pump Station." ACITON: Approve the Consent Agenda as presented; MOTION: Silke; SECOND: Cowan; AYES: Unanimous (Cowan, Silke, Lee, Sabatini).
3. **Public comment.** 1) Mr. Cowan announced that he has been officially appointed as the Director of the Lake County Dept. of Water Resources. 2) Ms. Pham announced that RCAC will be conducting a "Well Assessment and Water Quality for Industry Professionals" workshop in conjunction with the California Groundwater Association (CGA) during the 2018 CGA Annual Convention and Trade Show in Reno, Thursday, October 25th 2018 from 12:00 – 2:00 PM. The workshop will provide training on well systems, source water protection, well construction, operation and maintenance and water quality treatments. 3) Mr. Busch announced that the City of Woodland will be hosting an Aquifer Storage and Recovery (ASR) well session on August 10th, 9:00 AM at the new water treatment plant. If interested, contact him at tim.busch@cityofwoodland.org .
4. **DWR Update.** Ms. Tang reviewed the information provided in the packet and highlighted the Central Valley Tributaries Program – a new grant opportunity; the Prop 1 schedule has been pushed later; the Draft IRWM Implementation PSP will now be out in September; there will be 3 public meetings in October; Comments will close the end of October; the Final PSP will be out in late fall and applications will be due around April 2019. Mr. Stevenson commented that Yolo County Flood Control has applied for implementation funding for abandoned well de-commissioning – required by law - a number of times and when guidelines come out they are ineligible

because of fine points of well classification. He would like to get this comment to DWR through the Roundtable of Regions. Ms. Wrysinski will assist with the contact.

5. **Expand the Brownfield Project Area**. Ms. Wrysinski referred to the letter in the meeting packet from the Clerk of the Colusa County Board of Supervisors and reviewed the need to expand the project area slightly into Colusa County to include the Elgin Mine so that it could be assessed. ACTION: Expand the area of the Brownfields Assessment Coalition Project to include the Elgin Mine in Colusa County. MOTION: Stevenson; SECOND: Silke; AYES: Unanimous (Cowan, Silke, Lee, Sabatini).
6. **Prop 1 Application Process Readiness/Roundtable of Regions.** Ms. Wrysinski directed attendees to the Roundtable of Regions (RoR) notes in the meeting packet. DWR has been taking feedback through the RoR on concepts for the upcoming IRWMP Implementation Round 1 Guidelines. The entire Sacramento River Funding Area (FA) needs to provide unified decisions to DWR on, 1) The percent of the total funding allotted to the FA to split between Round 1 and Round 2; 2) The percent of funding to go toward Planning; 3) The percent of funding to go to Disadvantaged Communities; 4) How to equitably distribute the funding among the Regions within the FA (one Advisory Committee participant provided a draft of options for calculating distribution of funds from Prop 84); 5) Selection of a location/venue for the Pre-Application Workshop where selected Project Proponents from each Region will give presentations on projects for funding. Ms. Tang provided an update on the timing in #4 above. The group recognized that there is minimal funding for such a large area - $1M - $2M for each region – so discussed other possible funding sources for project implementation such as the Parks Bond. The RoR will be losing its leadership after 10 years due to retirement and re-prioritization. Keeping the RoR functioning will require part-time staff, which will likely require contributions from the Regions. Leaders within the group are taking steps to develop a position description and distribute some current tasks. See the packet information. Further discussion will be held during the September Regular meeting.
7. ***Ranking of IRWMP and SWRP Projects for Prop 1 Round 1 RFP.** Ms. Lau and Ms. Itagaki recapped the update from the May meeting, explained the difference between scoring/ranking and prioritization. They have done a variety of "sorts" such as by type, location and primary objectives. This is different from IRWM Implementation Grant scoring. Also, there is separate grant funding, including a 2nd round - ~$90M statewide from the State Water Resources Control Board (SWRCB) - for storm water projects. K/J needs confirmation on the following in order to finish updating the plan. 1) How should they prioritize projects (ranking system)? Shall they keep the prior system, highlighting the ranking challenges of restoration and outreach projects? 2) Are the objectives in the plan still prioritized the way the CC wants them? After discussion the CC confirmed that they should keep the prior system for prioritizing, and that the objectives are still prioritized appropriately. They asked that K/J add a new objective to address Harmful Algal Blooms (HAB). This is an EPA "emerging contaminant" and is a drinking water quality, recreation (exposure) and cultural use issue. Incidence is increasing, per Mr. Silke. This will tie into CC-HAB on the SWRCB website per Ms. Kennedy. K/J will work with Ms. Kennedy on drafting language. (https://www.waterboards.ca.gov/drinking_water/programs/habs/) K/J reported that the remaining chapters for review are still in progress. They are expected to be ready for review in late July or early August.
8. **Set Annual Escalator for RWMG Contributions to the Westside.** Chair Sabatini reminded the group of the related discussion at the May meeting to cover costs for grant writing, the Small Grant Program and other work. She and Mr. Stevenson volunteered to write a draft justification for the annual escalation of fees for discussion at the September meeting and ultimately for presentation to the Board of Supervisors for each of the member counties.
9. **IRWM Plan Project Subsets – Guidance to Administrative Coordinator.** Ms. Wrysinski requested guidance from the CC on whether individual projects that fit within a general project already submitted should be considered

sub-projects with a, b, c, d . . . identification or be given separate project status. After discussion the CC recommended numbering them as separate projects.

10. **Annual Budget**. Ms. Wrysinski explained options for a more useful budget format vs. the current one. After discussion the CC decided to keep the existing format for now and explore other ways that Mr. Lee could provide organization financial reports that allow better tracking. ACTION: Approve the 2018-19 Annual Budget as presented. MOTION: Stevenson; SECOND: Silke; AYES: Unanimous (Cowan, Silke, Lee, Sabatini).
11. **2017-2018 Annual Work Plan Review.** This topic is deferred to the next meeting.
12. **2018-19 Annual Work Plan Development.** This topic was deferred to the next meeting.
13. **Guidance for Administrative Coordinator: Budget Expenditure.** Ms. Wrysinski asked if, given the work load, the CC prefers that she limit her work to stay within the contract budget or that she do the work required and if funds run short that she seek a budget supplement. After brief discussion the CC agreed that she should do the work required and if supplemental funds are needed to bring that before the CC.
14. **CC Member Reports, Regional Activities and Updates.** No additional reports were provided.
15. **Confirm Next Meeting Date and Location:** The next meeting will be Wednesday, September 12th, 10:00 AM. In Napa County.
16. **Adjourn –** the meeting was adjourned at 12:15 PM by Mr. Stevenson.

Minutes respectfully submitted by: Jeanette Wrysinski, YCRCD. Approved on September 12, 2018 by the Westside Sac IWRMP Coordinating Committee.

By:_____
Name, position

DS03

YCRCD Budget - Westside Sac IRWMP Facilitation Support 2018-19

				9/30/2018		as of 9/1
Task		Item	Total Cost	Invoice	Amount	Amount
1 MEETING FACILITATION AND SUPPORT				20	Spent	Remaining
	Develop meeting agendas, supporting materials; meeting preparation,					
	Facilitation/support at meetings; Prepare meeting summarie; meeting follow-up					
	Labor		**$26,563.95**	**$4,797.50**	**$4,797.50**	**$21,766.45**
	Materials		**$1,635.00**	**$38.51**	**$38.51**	**$1,596.49**
	Travel		**$401.25**	**$0.00**	**$0.00**	**$401.25**
Task Subtotal			**$28,600.20**	**$4,836.01**	**$4,836.01**	**$23,764.19**
2 PUBLIC OUTREACH						
	Support all outreach efforts by IRWM CC, Quarterly Newsletters					
	Labor		**$7,644.00**	**$1,056.00**	**$1,056.00**	**$6,588.00**
	Materials		**$960.00**	**$0.00**	**$0.00**	**$960.00**
Task Subtotal			**$8,604.00**	**$1,056.00**	**$1,056.00**	**$7,548.00**
3 DATA MANAGEMENT						
	Tracking Sheet #1 - IRWM Project Progress, Tracking Sheet #2 - IRWMP Regional Progress					
	Tracking Sheet #3 - Funding Opportunities					
	Labor		**$11,466.00**	**$1,872.00**	**$1,872.00**	**$9,594.00**
Task Subtotal			**$11,466.00**	**$1,872.00**	**$1,872.00**	**$9,594.00**
4 FUNDING UPDATES						
	Provide periodic funding updates at quarterly meetings					
	Labor		**$2,409.90**	**$912.00**	**$912.00**	**$1,497.90**
Task Subtotal			**$2,409.90**	**$912.00**	**$912.00**	**$1,497.90**
5 OTHER DUTIES AS NEEDED TO SUPPORT THE CC						
	Support the CC in Administering the Westside IRWMP					
	Labor		**$9,555.00**	**$2,160.00**	**$2,160.00**	**$7,395.00**
	Travel		**$192.60**	**$0.00**	**$0.00**	**$192.60**
Task Subtotal			**$9,747.60**	**$2,160.00**	**$2,160.00**	**$7,587.60**
Subtotal			**$60,827.70**	**$10,836.01**	**$10,836.01**	**$49,991.69**
Administration (15%)			$478.33	$5.78	$5.78	$472.55
Grand Total			**$61,306.03**	**$10,841.79**	**$10,841.79**	**$50,464.24**

SCHEDULE OF DEPOSITS RECEIVED - WESTSIDE IRWMP

2110SC

Solano County Water Agency

DEPOSIT DATE	June 30, 2016	SOLANO COUNTY WATER AGENCY	LAKE COUNTY WATER RESOURCES	NAPA COUNTY PUBLIC WORKS	WATER RESOURCES ASSOC OF YOLO	Total
	Contributions					
11/19/13	IRWMP NOV 2013		20,000.00	20,000.00	20,000.00	60,000.00
11/5/14	IRWMP NOV 2014		20,000.00	20,000.00	20,000.00	60,000.00
10/15/15	IRWMP BY2015-2016		20,000.00	20,000.00	20,000.00	60,000.00
10/1/16	IRWMP BY 2016-2017	20,000.00	20,000.00	20,000.00	20,000.00	60,000.00
7/1/17	SCWA UNFUNDED CONTRIBUTION 2013 FUNDED 7/1/17	20,000.00				20,000.00
7/1/17	SCWA UNFUNDED CONTRIBUTION 2014 FUNDED 7/1/17	20,000.00				20,000.00
7/1/17	SCWA UNFUNDED CONTRIBUTION 2015/16 FUNDED 7/1/17	20,000.00				20,000.00
9/1/17	IRWMP BY 2017-2018	20,000.00	20,000.00	20,000.00	20,000.00	80,000.00
9/1/2018	IRWMP BY 2018-2019					0.00
	Total Contributions	100,000.00	100,000.00	100,000.00	100,000.00	400,000.00

INVOICE DATE	INVOICE	Expenditures	INVOICE AMOUNT					
4/11/14	1	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ASMIN ASSISTANCE: SEP - DEC 2013	1,630.49	407.62	407.62	407.62	407.62	1,630.49
4/11/14	2	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ASMIN ASSISTANCE: JAN - MAR 2014	4,767.05	1,191.76	1,191.76	1,191.76	1,191.76	4,767.05
6/30/14	3	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ASMIN ASSISTANCE: APR - JUNE 2014	4,914.10	1,228.53	1,228.53	1,228.53	1,228.53	4,914.10
10/8/14	4	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JULY - SEPT 2014	2,523.39	630.85	630.85	630.85	630.85	2,523.39
12/3/14	24.01-1	MCCORD ENVIRONMENTAL, INC. - USEPA BROWNFIELDS PROGRAM-COALITION ASSESSMENT GF	4,560.00	1,140.00	1,140.00	1,140.00	1,140.00	4,560.00
1/7/15	24.01-2	MCCORD ENVIRONMENTAL, INC. - USEPA BROWNFIELDS PROGRAM-COALITION ASSESSMENT GF	3,800.00	950.00	950.00	950.00	950.00	3,800.00
1/26/15	5	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: OCT - DEC 2014	4,731.46	1,182.87	1,182.87	1,182.87	1,182.87	4,731.46
5/8/15	6: 1.1.15 - 4.4.15	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JAN - MAR 2015	7,485.36	1,871.34	1,871.34	1,871.34	1,871.34	7,485.36
6/18/15	EPA GRANT 2015	GOVERNMENT CONTRACT REGISTRATI - ELIGIBILITY FOR FEDERAL GRANTS	600.00	150.00	150.00	150.00	150.00	600.00
6/30/15	4.1.15 - 6.30.15	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: APR - JUN 2015	9,506.61	2,376.65	2,376.65	2,376.65	2,376.65	9,506.61
10/15/15	7.1.15 - 9.30.15	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JULY - SEPT 2015	7,413.05	1,853.26	1,853.26	1,853.26	1,853.26	7,413.05
1/11/16	10.1.15 - 12.31.15	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: OCT - DEC 2015	10,666.76	2,666.69	2,666.69	2,666.69	2,666.69	10,666.76
5/13/16	1.1.16 - 3.31.16	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JAN - MAR 2016	12,003.18	3,000.80	3,000.80	3,000.80	3,000.80	12,003.18
6/28/16	1	CITY OF WINTERS - WESTSIDE SAC IRWMP SMALL GRANT PROGRAM	12,000.00	3,000.00	3,000.00	3,000.00	3,000.00	12,000.00
6/30/16	11	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: APR - JUN 2016	18,517.14	4,629.29	4,629.29	4,629.29	4,629.29	18,517.14
7/30/16	582	CACHE CREEK CONSERVANCY - WESTSIDE SAC IRWMP SMALL GRANT PROGRAM-IMPLEMENTAT	9,490.34	2,372.59	2,372.59	2,372.59	2,372.59	9,490.34
8/25/16	LEE JUL 2016	BANK OF THE WEST - GO DADDY - RENEWAL	69.99	17.50	17.50	17.50	17.50	69.99
10/18/16	2016 CREEK CLEANUP	PUTAH CREEK COUNCIL - WESTSIDE SAC IRWMP SMALL GRANT - 2016 PUTAH CREEK FALL CLEANUP	2,500.00	625.00	625.00	625.00	625.00	2,500.00
12/31/16	1	LAKE COUNTY RESOURCE CONSERVAT - GOAT'S RUE NOXIOUS WEED MGT PROJECT - 9/1/16 - 12	5,428.38	1,357.10	1,357.10	1,357.10	1,357.10	5,428.38
1/3/17	13	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: 10/1/16-12/31/16	11,241.97	2,810.49	2,810.49	2,810.49	2,810.49	11,241.97
2/1/17	12	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JULY - SEPT 2016	17,130.44	4,282.61	4,282.61	4,282.61	4,282.61	17,130.44
4/21/17	14	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: JAN - MAR 2017	15,103.58	3,775.90	3,775.90	3,775.90	3,775.90	15,103.58
5/23/15	2	LAKE COUNTY RESOURCE CONSERVAT - GOAT'S RUE NOXIOUS WEED MGT PROJECT -1/1/17-3/31	1,230.15	307.54	307.54	307.54	307.54	1,230.15
6/30/17	3	LAKE COUNTY RESOURCE CONSERVAT - GOAT'S RUE NOXIOUS WEED MGT PROJECT -04/01/17 -	4,846.87	1,211.72	1,211.72	1,211.72	1,211.72	4,846.87
6/30/17	2017.0509	YOLO COUNTY FLOOD CONTROL & WA - IRWM 2015 GRANT IMPLEMETATION 31/16 - 4/30/17 - WE	11,780.62	2,945.16	2,945.16	2,945.16	2,945.16	11,780.62
6/30/17	1140	SOLANO RESOURCE CONSERVATION D - DRY ARROYO CREEK CONSTRUCTION	12,500.00	3,125.00	3,125.00	3,125.00	3,125.00	12,500.00

6/30/17	15	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN ASSISTANCE: APR - JUN 2017 -	18,104.11	4,526.03	4,526.03	4,526.03	4,526.03	18,104.11
10/24/17	#1	LAKE COUNTY WATERSHED PROTECTI - QUAGGA MUSSEL BOAT DISPLAY	18,172.00	4,543.00	4,543.00	4,543.00	4,543.00	18,172.00
10/5/17	IRWM W #4600011493	DEPT OF WATER RESOURCES - IRWM WESTSIDE PASS-THRU YOLO COUNTY FLOOD CONTROL - I	(11,780.62)	(2,945.16)	(2,945.16)	(2,945.16)	(2,945.16)	(11,780.62)
10/11/17	16	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN 7/01/17 - 9/30/17	12,017.19	3,004.30	3,004.30	3,004.30	3,004.30	12,017.19
01/08/18	17	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN 10/1/17-12/31/17	15,522.45	3,880.61	3,880.61	3,880.61	3,880.61	15,522.45
1/29/18	118989	KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - DEC 2017	5,815.00	1,453.75	1,453.75	1,453.75	1,453.75	5,815.00
1/31/18	4	LAKE COUNTY RESOURCE CONSERVAT - GOAT'S RUE NOXIOUS WEED MGT PROJECT -7/1/17 - 1/31/2018- SCWA SHARE	1,564.46	391.12	391.12	391.12	391.12	1,564.46
2/28/18	119709	KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - JAN 2018	6,972.50	1,743.13	1,743.13	1,743.13	1,743.13	6,972.50
03/15/18	Adopt A Flat	PUTAH CREEK COUNCIL - WESTSIDE SAC IRWMP SMALL GRANT - ADOPT-A-FLAT JAN-SEPT 2017-	11,039.14	2,759.79	2,759.79	2,759.79	2,759.79	11,039.14
4/2/18	120537	KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - FEB 2018	5,862.50	1,465.63	1,465.63	1,465.63	1,465.63	5,862.50
4/9/18	18	YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN 1/1/18-3/31/18	22,166.80	5,541.70	5,541.70	5,541.70	5,541.70	22,166.80
4/18/18	121047	KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - MAR 2018	14,056.25	3,514.06	3,514.06	3,514.06	3,514.06	14,056.25
5/21/18	121908	KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - APR 2018	7,993.75	1,998.44	1,998.44	1,998.44	1,998.44	7,993.75
6/30/18	122845	F KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - may 2018	7,382.50	1,845.63	1,845.63	1,845.63	1,845.63	7,382.50
6/30/18	19	F YOLO COUNTY RCD - WESTSIDE SAC IRWMP ADMIN 4/1/18-6/30/18	16,616.23	4,154.06	4,154.06	4,154.06	4,154.06	16,616.23
6/30/18	123669	F KENNEDY/JENKS CONSULTANTS - WESTSIDE IRWMP ASSISTANCE - JUN 2018	6,496.25	1,624.06	1,624.06	1,624.06	1,624.06	6,496.25
		Total Expenditures		88,610.36	88,610.36	88,610.36	88,610.36	354,441.44
		REMAINING BALANCE		11,389.64	11,389.64	11,389.64	11,389.64	45,558.56

Westside IRWM Disadvantaged Unincorporated Communities Study
September 12, 2018

Methodology

Prepare the data

A. The CRC team gathered the necessary data for the Westside IRWM area, including the following:
    A. Westside IRWM boundary
    B. Block, blockgroup, tract, place, incorporated areas, census designated areas (CDP), and county boundary data from the US Census
    C. Parcel data from each of the five counties
    D. 2010 Census block-level demographic data (total population, including race/ethnicity)
    E. ACS 2012-2016, 2011-2015, and 2010-2014 Median Household Income (MHI) data by blockgroup, tract, and place
    F. Farmland Mapping Monitoring Program (FMMP) data
    G. Water service boundary areas, downloaded in June 2018 from the California Environmental Health Tracking Program
    H. Public Water System Compliance Status, downloaded in June 2018 from the California State Water Resources Control Board

Calculate parcel density

A. Using the Kernel Density tool (which calculates the density of point features around each output raster cell) , the CRC made a grid of the IRWM area, calculating the parcel density for each grid cell.
B. We then eliminated cells whose centroid fell within incorporated areas and within blocks with a population of zero. We then selected all lands to be included in the parcel density analysis, instead of those that spatially correlated with the FMMA Urban and Built-Up land designation.

Identify Unincorporated Communities

A. We selected all grid cells with a parcel density of 150 parcels/sq. mi. or greater. The SJV study analyzed areas with a parcel density of 250 parcels/sq. mi. The CRC decided to lower the threshold for an unincorporated community since this is a very rural area.

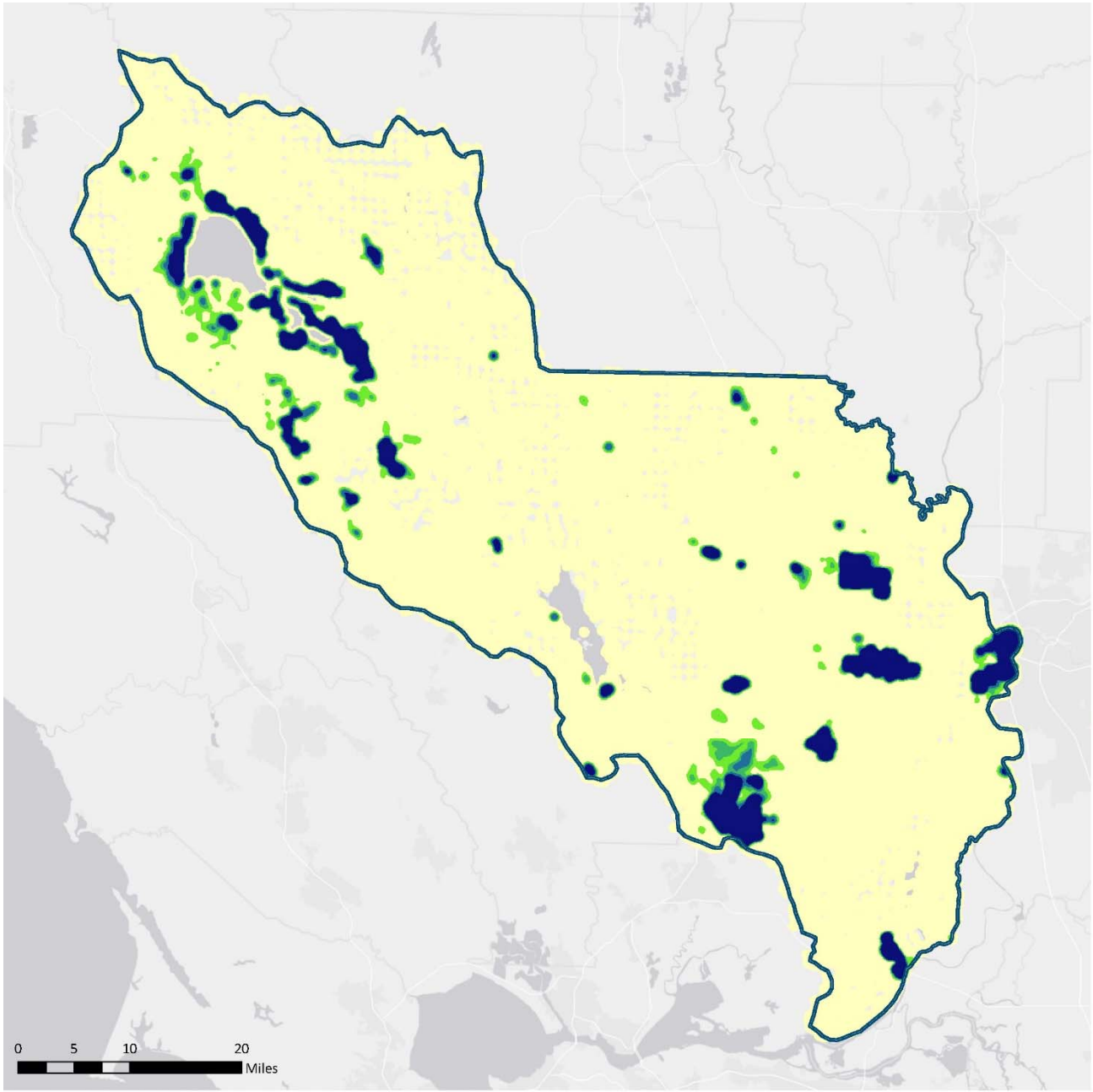
Identify Disadvantaged Unincorporated Communities

A. The CRC used the latest Median Household Income data from the ACS 2012-2016 dataset. The MHI for California was $63,783 for this dataset; hence, the Disadvantaged Community (DAC) threshold was $51,026. The CRC identified all blockgroups, tracts, and places with an MHI of $51,026 or lower, and created one feature class for DAC analysis.
B. We then intersected the DAC and filtered parcel density feature classes to determine possible Disadvantaged Unincorporated Communities (DUC). We named them according to their proximity to other incorporated areas or CDPs.
C. We eliminated DUCs appearing to border larger communities and demonstrating low density parcels.
D. We changed the boundaries of 5 DUCs to exclude surrounding agricultural lands.
E. Finally, we expanded the boundaries of 5 DUCs to reflect the entire community.

Determine proximity to safe drinking water

A. The CRC compared the initial DUC feature class to the most current water service boundary data.
B. We found that the high density areas of many DUCs were overlapped by a public water system; however, several DUCs, especially surrounding Clear Lake, appeared to lie outside of the nearby service area or are only partially intersected.

Westside IRWM Disadvantaged Unincorporated Communities Study
September 12, 2018



Area Detail

Westside Parcel Density

Westside IRWM

Parcels/sq. mile

- 1 - 49
- 50 - 99
- 100 - 149
- 150 - 249
- 250 - 2147

Data sources: Census 2010; Lake, Colusa, Napa, Solano, and Yolo counties; Westside IRWM
Map created by S. Watterson, September 2018

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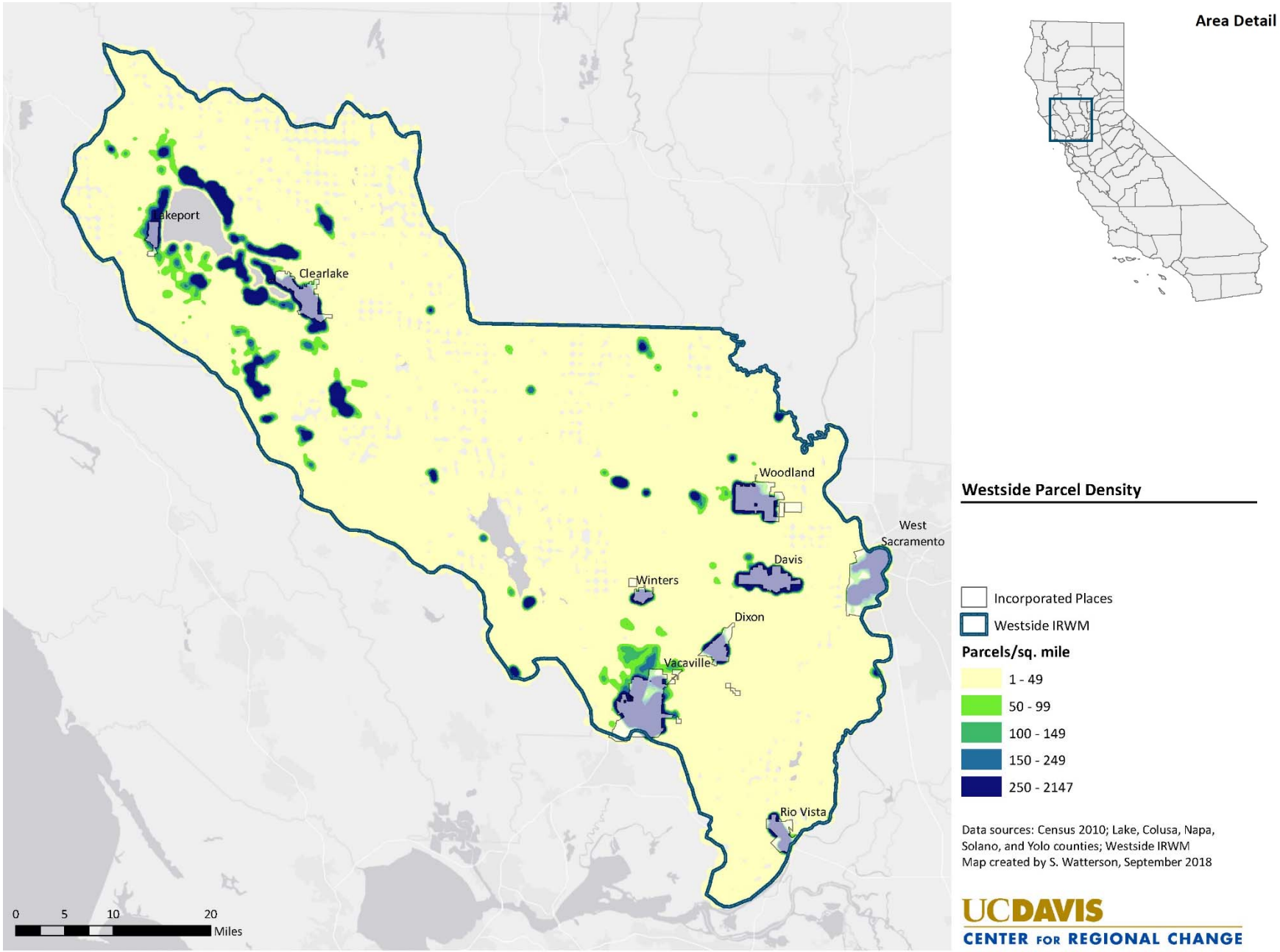

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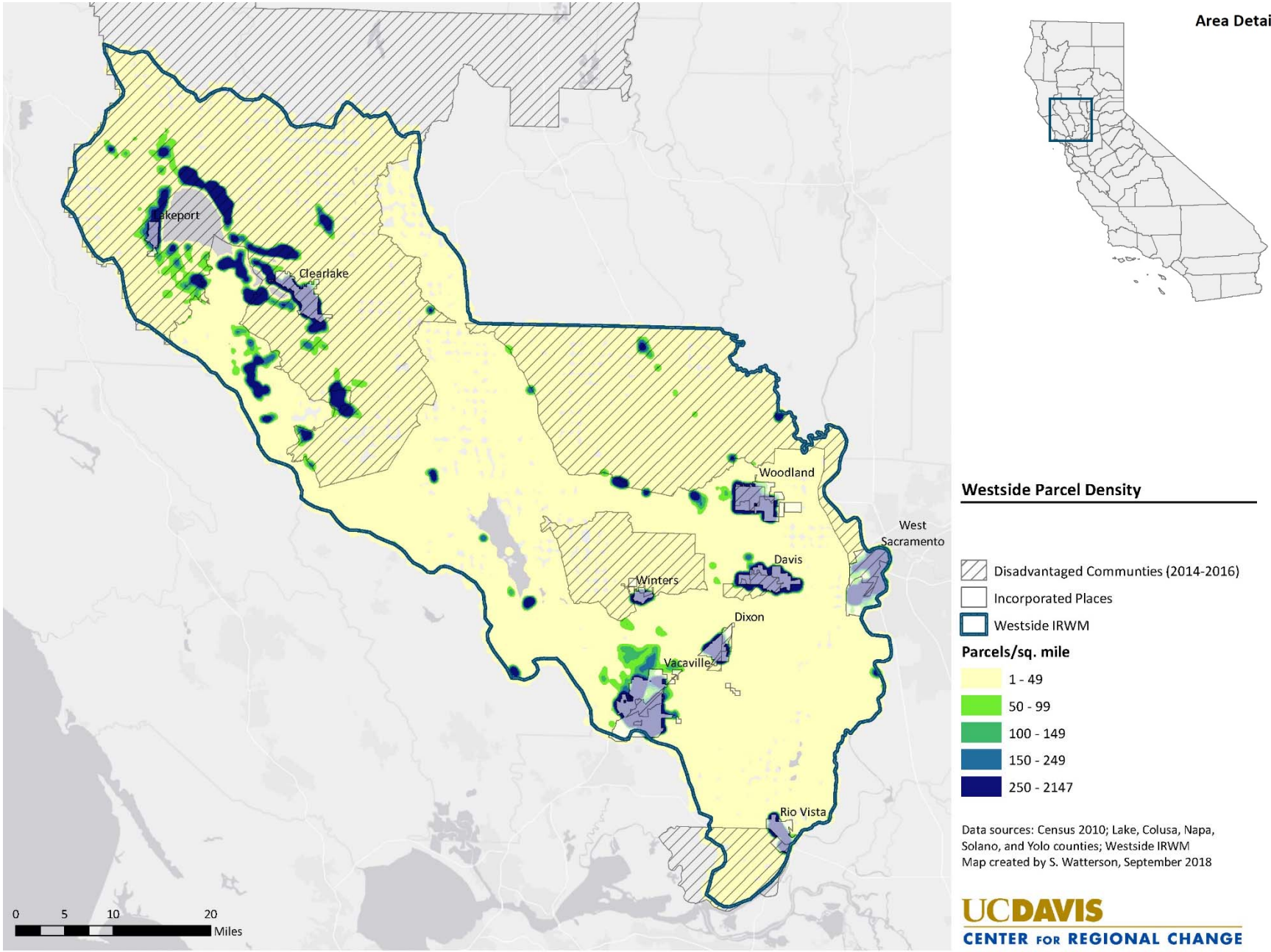

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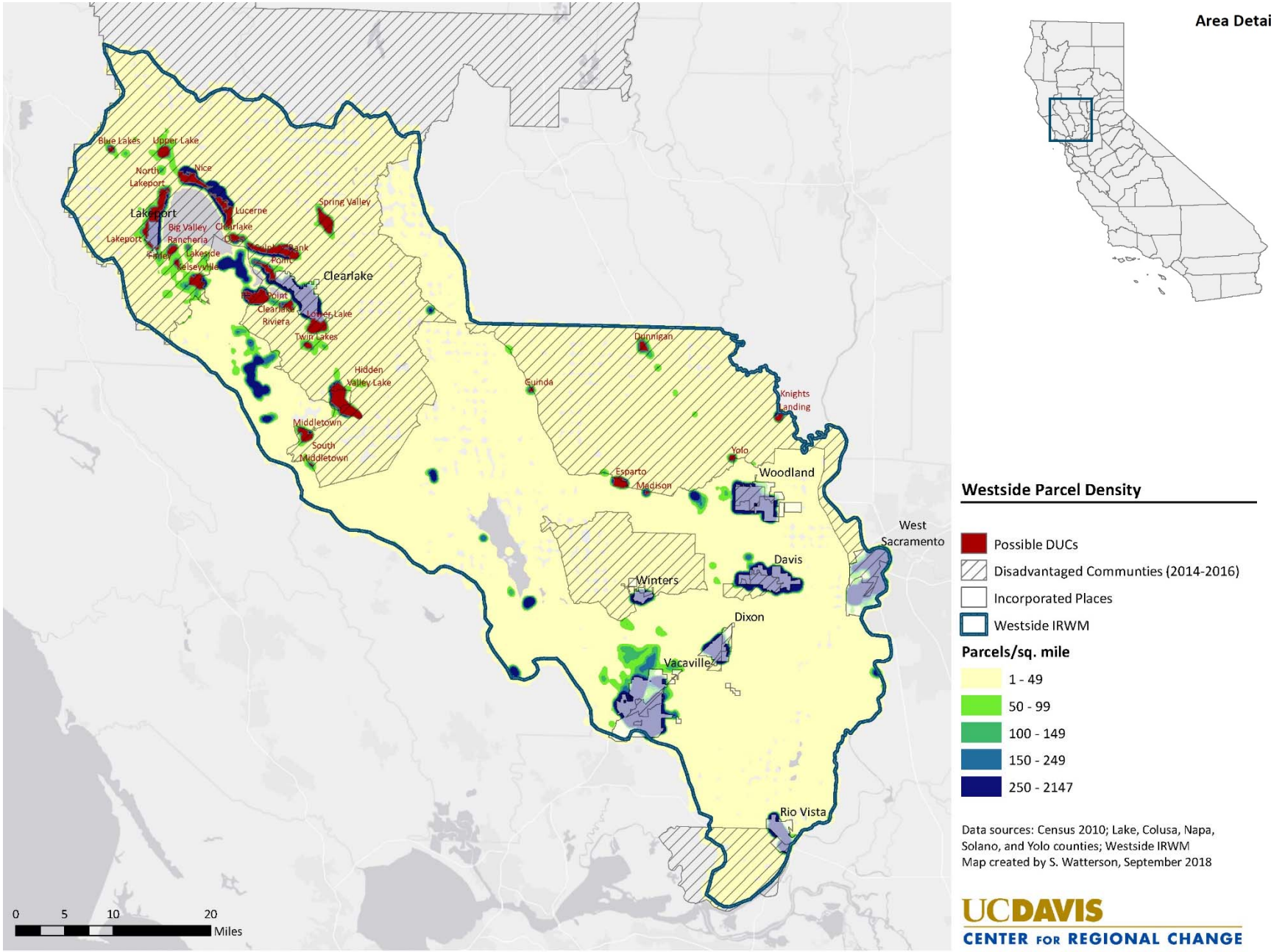
September 12, 2018



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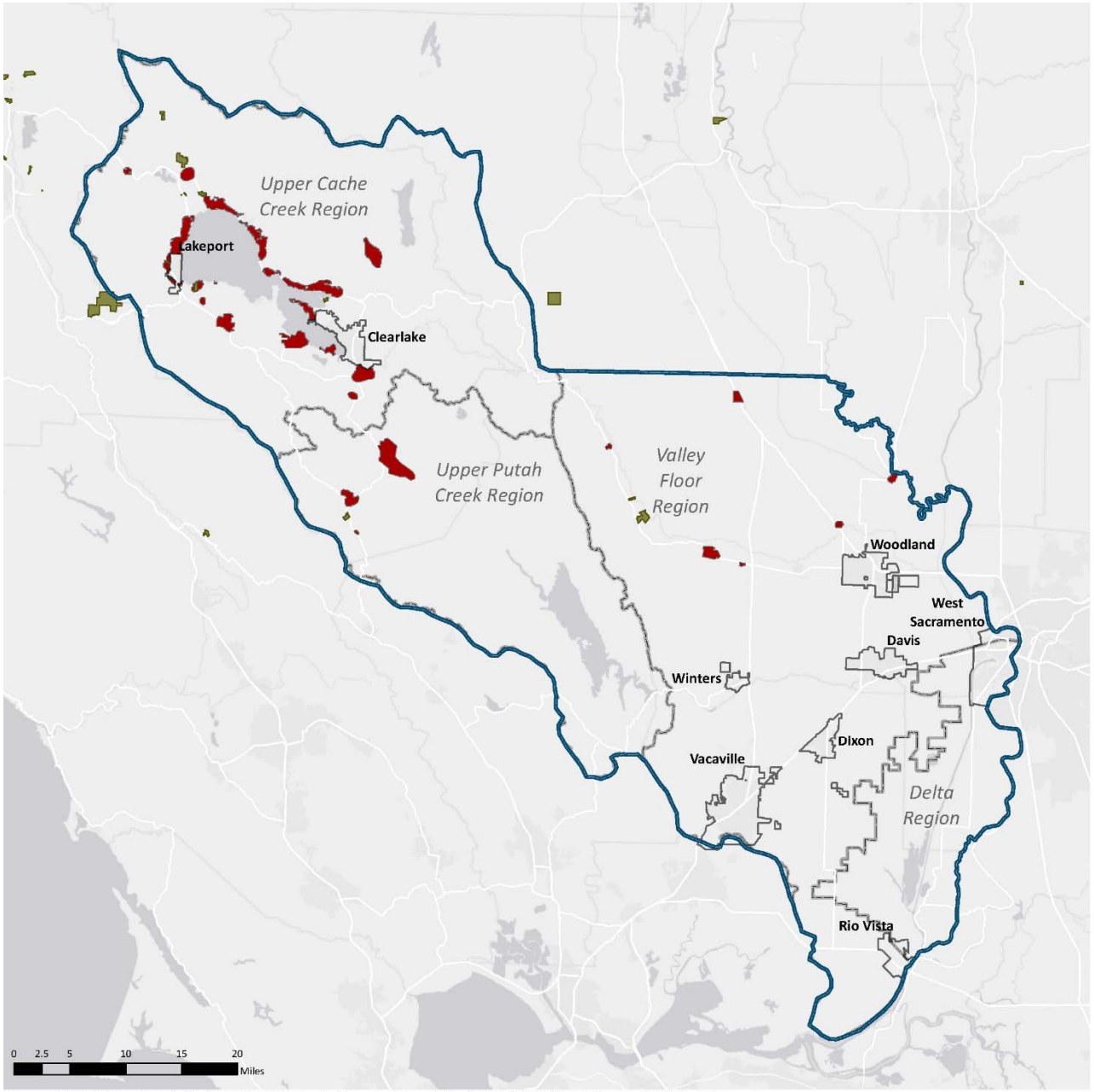

Document Path: C:\Users\sahalie\Box\Westside Water Justice\Mapping\Presentations\180912_Sep12\Westside_PossibleDUCs.mxd

Possible Disadvantaged Unincorporated Communities (DUCs)

- Possible DUCs
- Tribal Lands
- Incorporated Areas
- Westside IRWM Boundary
- Westside IRWM Regions

Data sources: Census 2010, Westside IRWM
Map created by S. Watterson, Sep 2018

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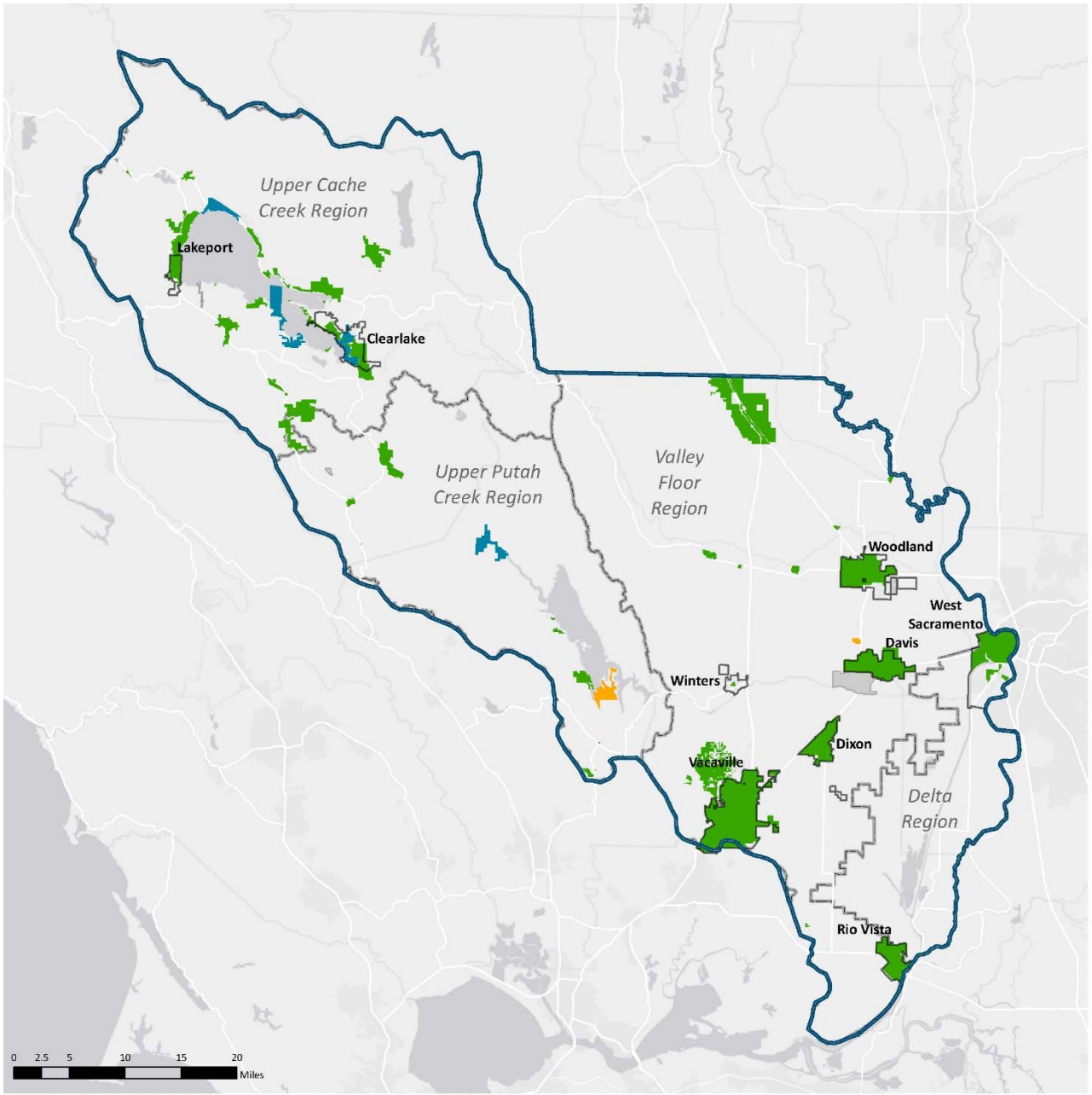

Document Path: C:\Users\sahalie\Box\Westside Water Justice\Mapping\Presentations\180912_Sep12\Westside_WaterServiceBoundaries.mxd

Westside Water Service Boundaries

- Westside IRWM Boundary
- Westside IRWM Regions
- Incorporated Areas

Public Water System boundaries*

- In Compliance (67)
- Returned to Compliance (8)
- Out of Compliance (2)
- Not Available (5)

* Current as of June 6, 2018

Data sources: Census 2010, CA SWRCB, Westside IRWM
Map created by S. Watterson, Sep 2018

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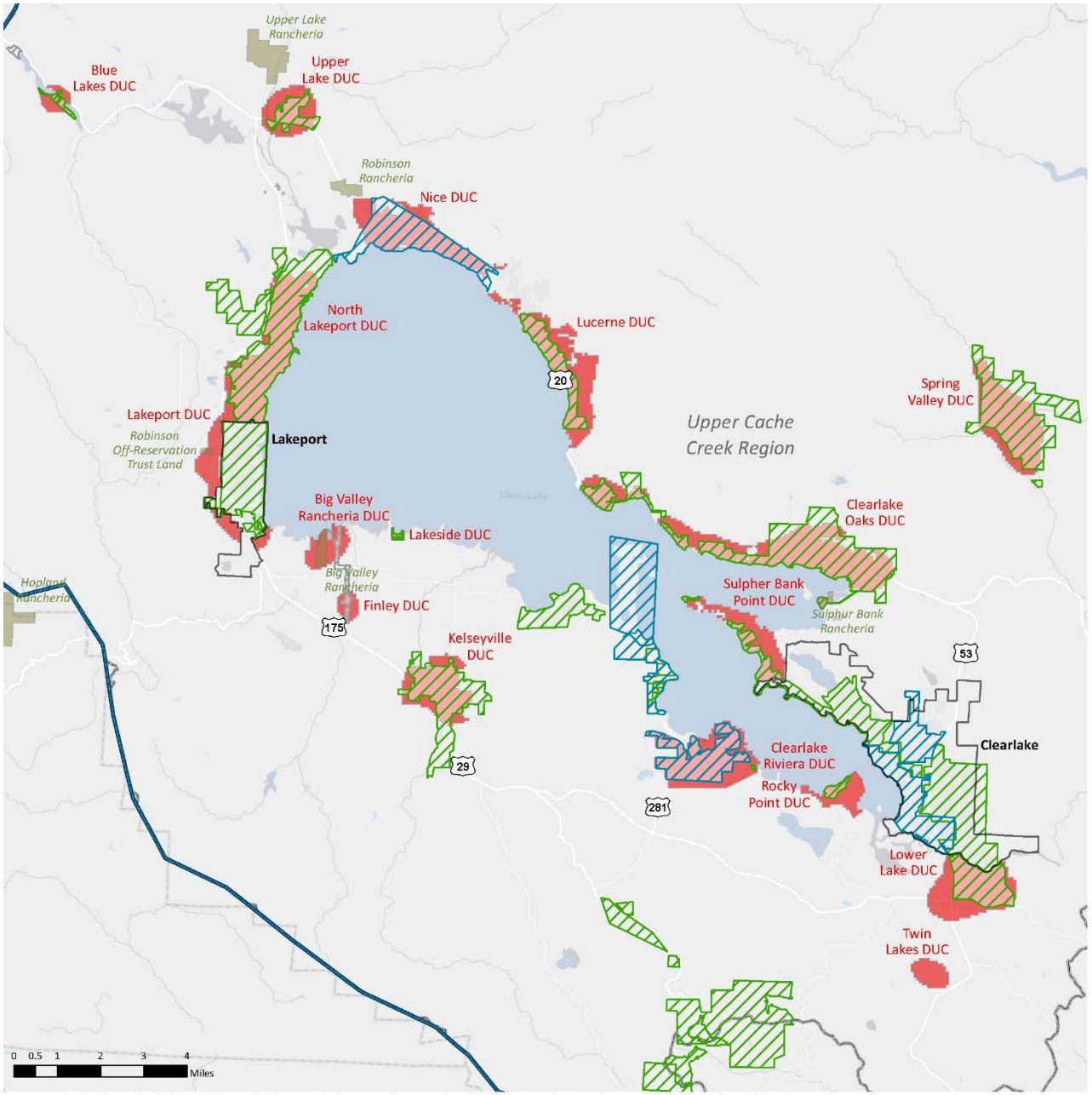
Westside IRWM Disadvantaged Unincorporated Communities Study
September 12, 2018



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Westside IRWM Communities: Clear Lake Region

- Westside IRWM Boundary
- Westside IRWM Regions
- Incorporated Areas
- Tribal Lands
- Possible DUCs
- DUC Intersected by a PWS

Public Water System (PWS)*

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Boundaries and compliance status current as of June 6, 2018

Data Sources: Census 2010, CA SWRCB, CEHTP, Westside IRWM
Map created by S. Watterson, September 2018

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Westside IRWM Disadvantaged Unincorporated Communities Study
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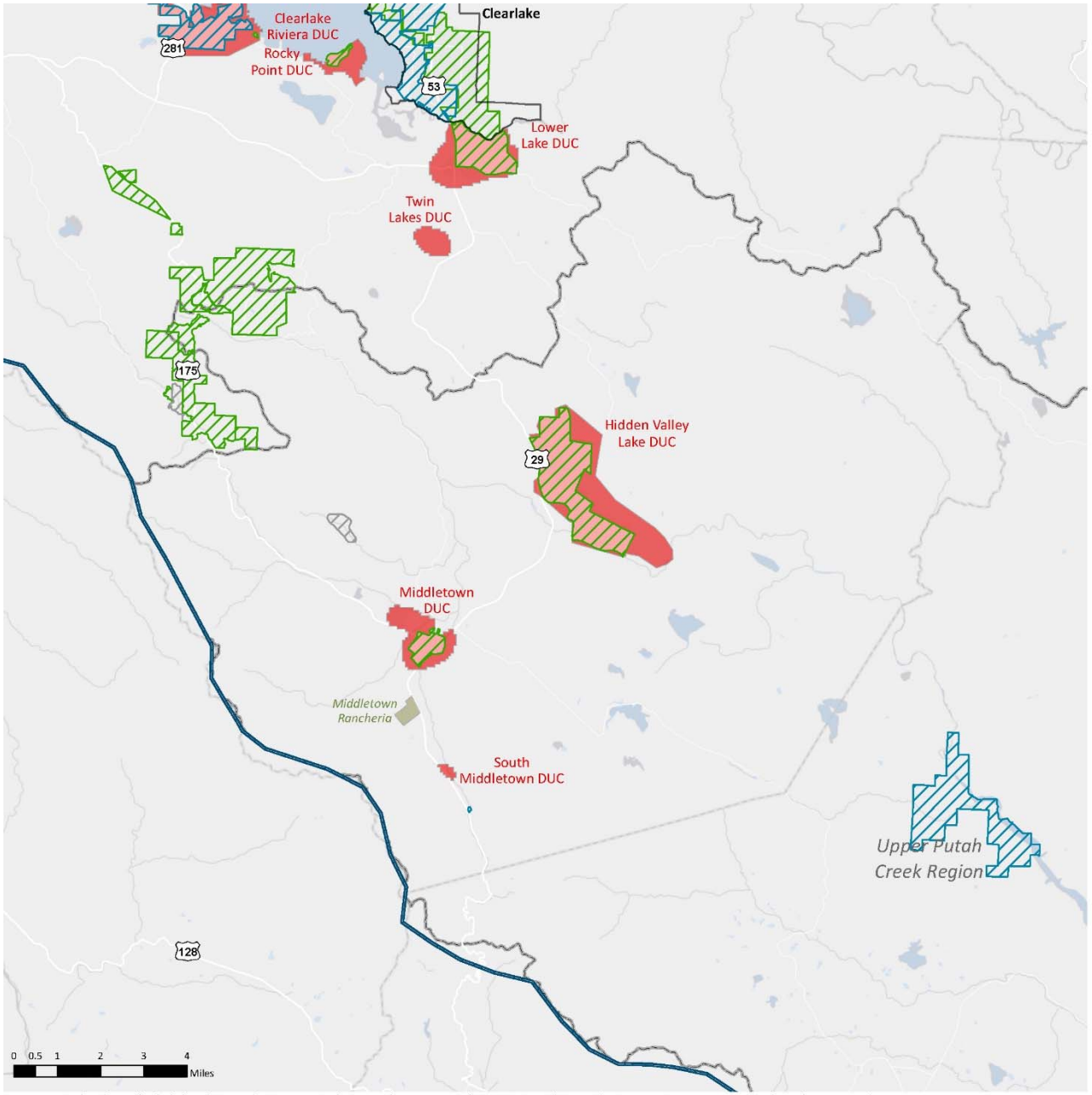

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Westside IRWM Communities:
Upper Putah Creek Region

- Westside IRWM Boundary
- Westside IRWM Regions
- Incorporated Areas
- Tribal Lands
- Possible DUCs
- DUC Intersected by a PWS

Public Water System (PWS)*

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Boundaries and compliance status current as of June 6, 2018

Data Sources: Census 2010, CA SWRCB, CEHTP, Westside IRWM
Map created by S. Watterson, September 2018

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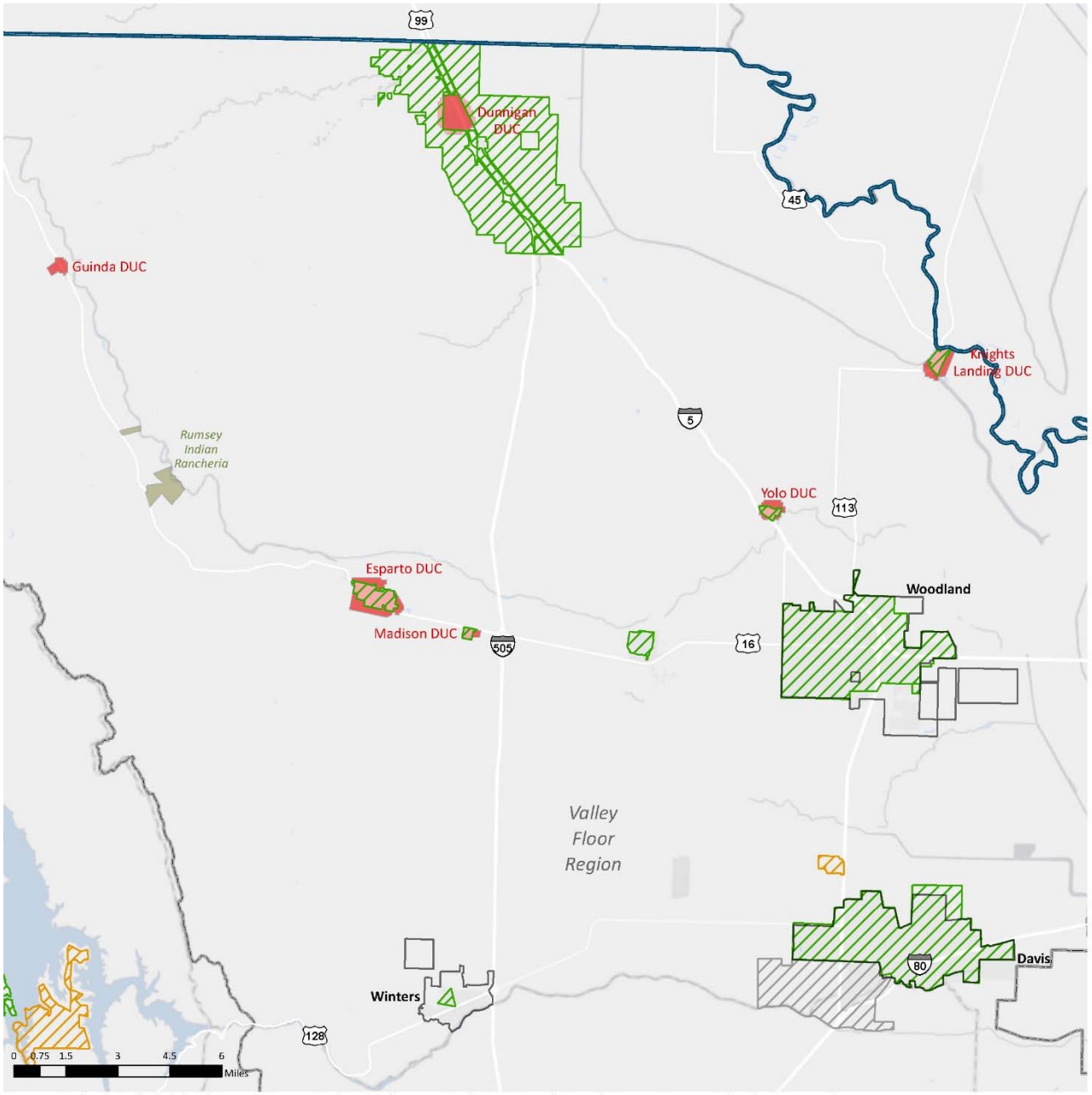

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Westside IRWM Communities: Valley Floor Region

- Westside IRWM Boundary
- Westside IRWM Regions
- Incorporated Areas
- Tribal Lands
- Possible DUCs
- DUC Intersected by a PWS

Public Water System (PWS)*

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Boundaries and compliance status current as of June 6, 2018

Data Sources: Census 2010, CA SWRCB, CEHTP, Westside IRWM
Map created by S. Watterson, September 2018

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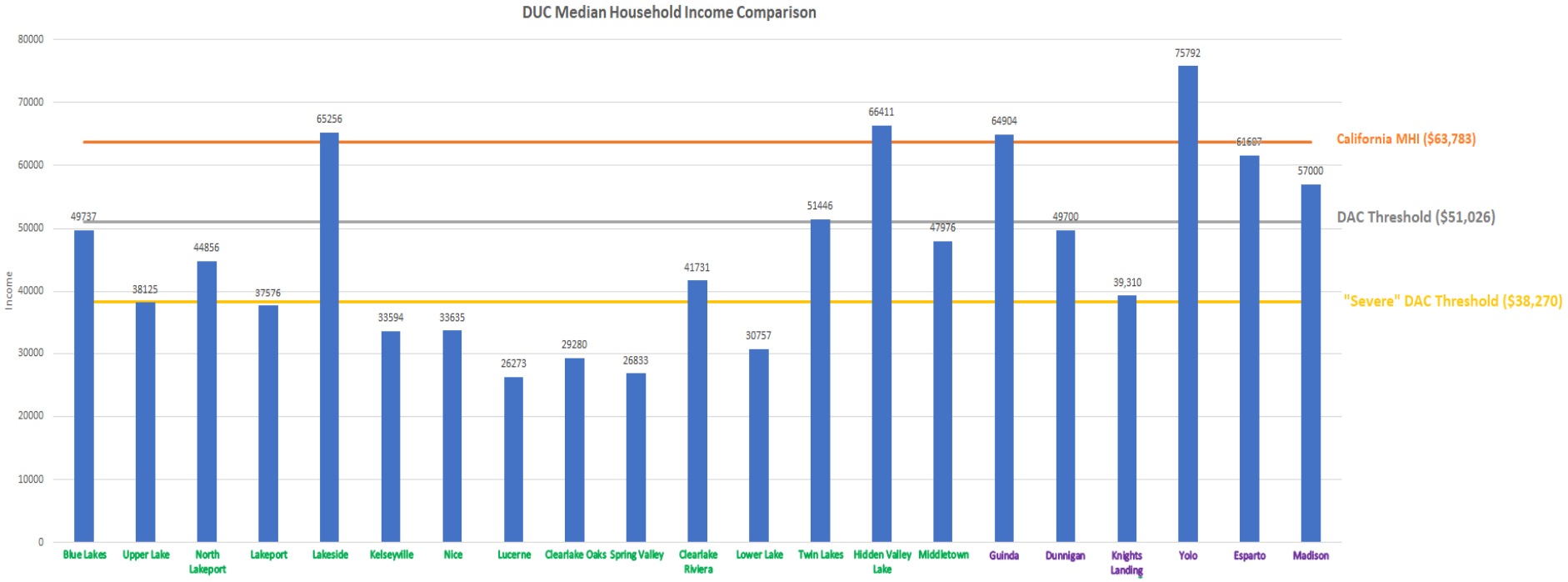

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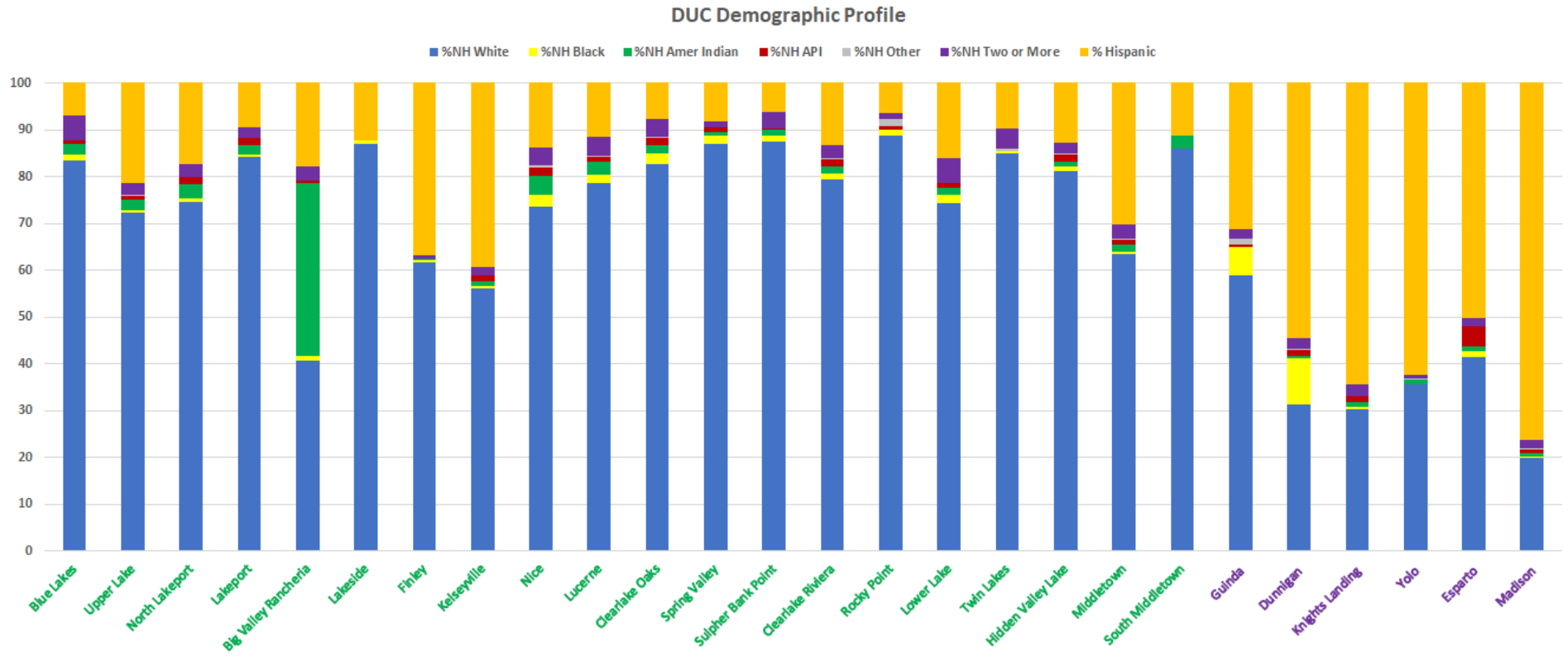
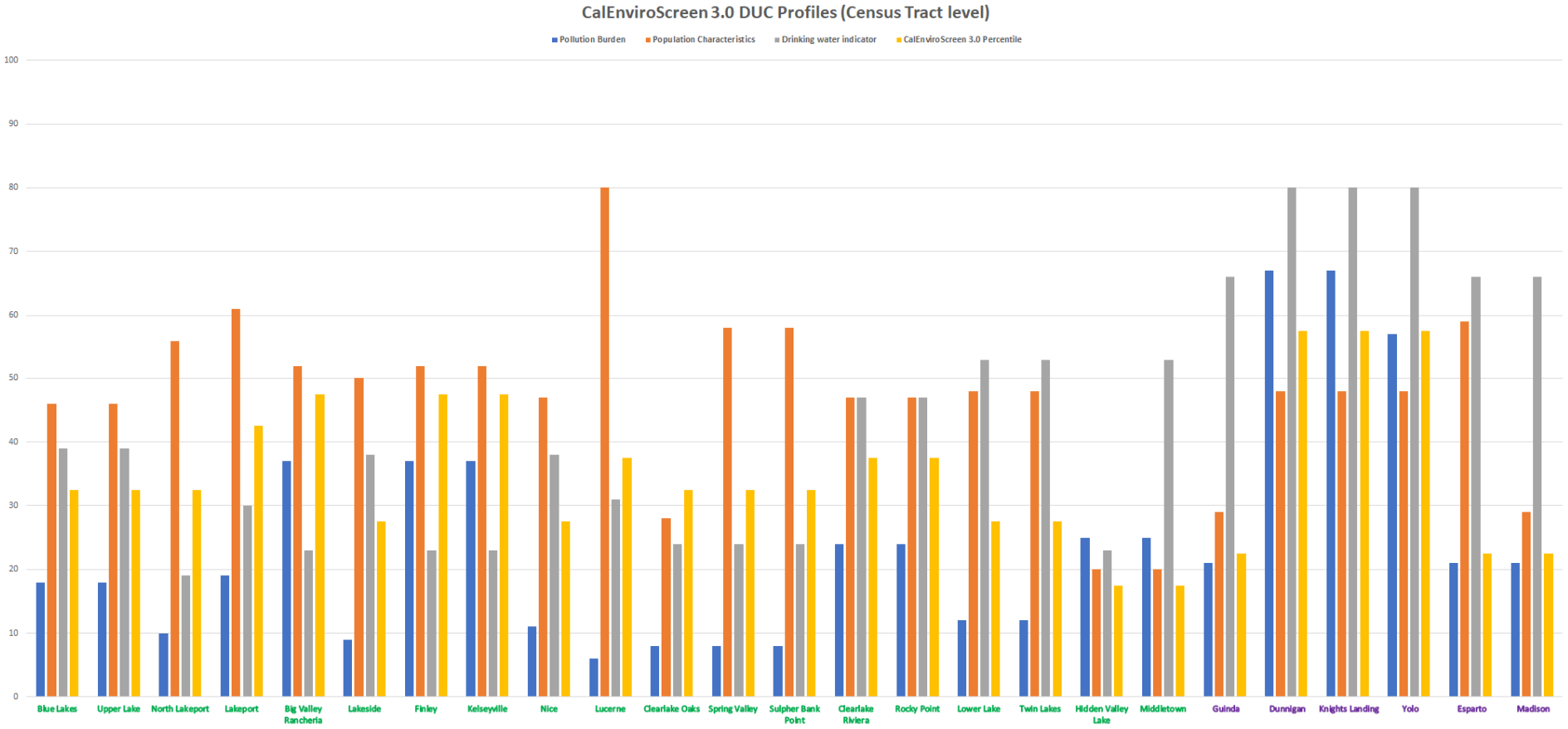

DUC Demographic Profile
%NH White
%NH Black
%NH Amer Indian
%NH API
%NH Other
%NH Two or More
% Hispanic
100
90
80
70
60
50
40
30
20
10
0
Blue Lakes
Upper Lake
North Lakeport
Lakeport
Big Valley Rancheria
Lakeside
Finley
Kelseyville
Nice
Lucerne
Clearlake Oaks
Spring Valley
Sulpher Bank Point
Clearlake Riviera
Rocky Point
Lower Lake
Twin Lakes
Hidden Valley Lake
Middletown
South Middletown
Guinda
Dunnigan
Knights Landing
Yolo
Esparto
Madison



*No data for South Middleton

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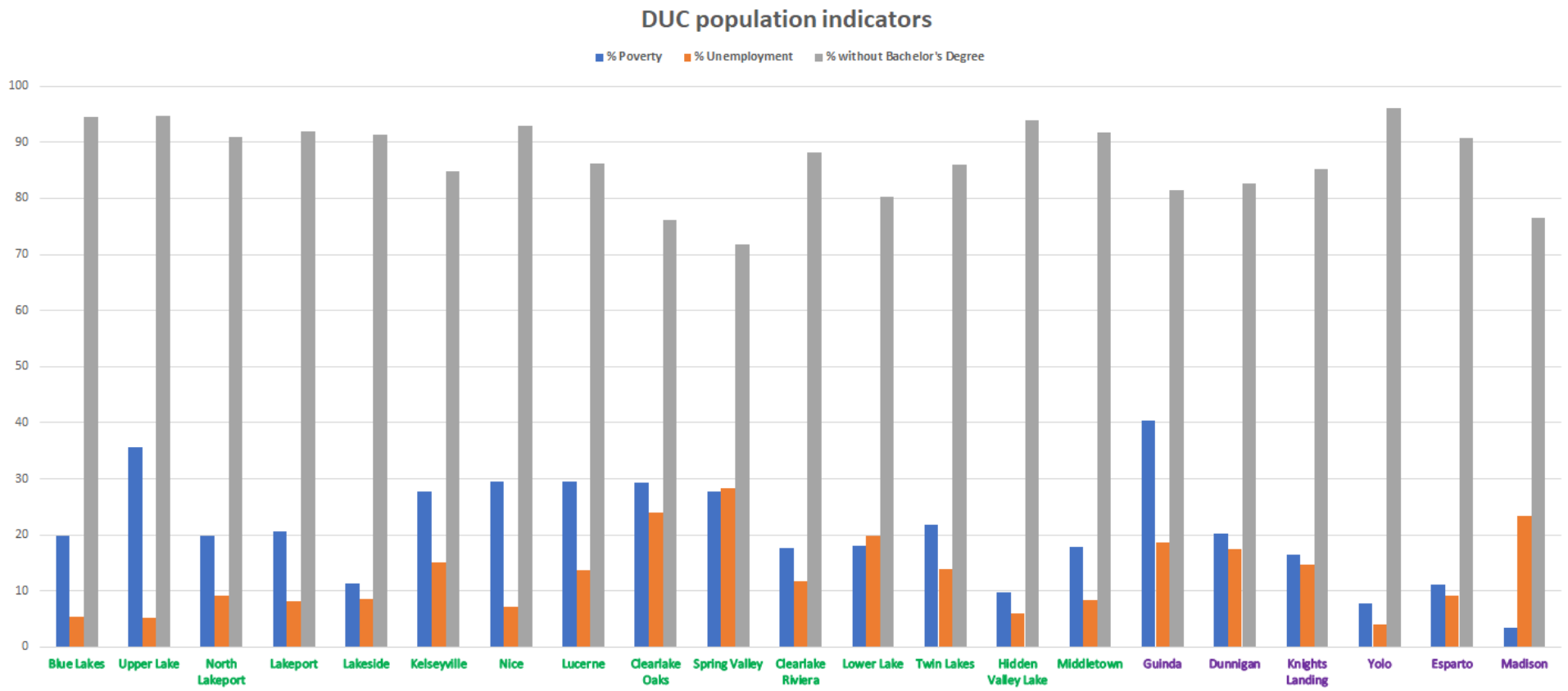
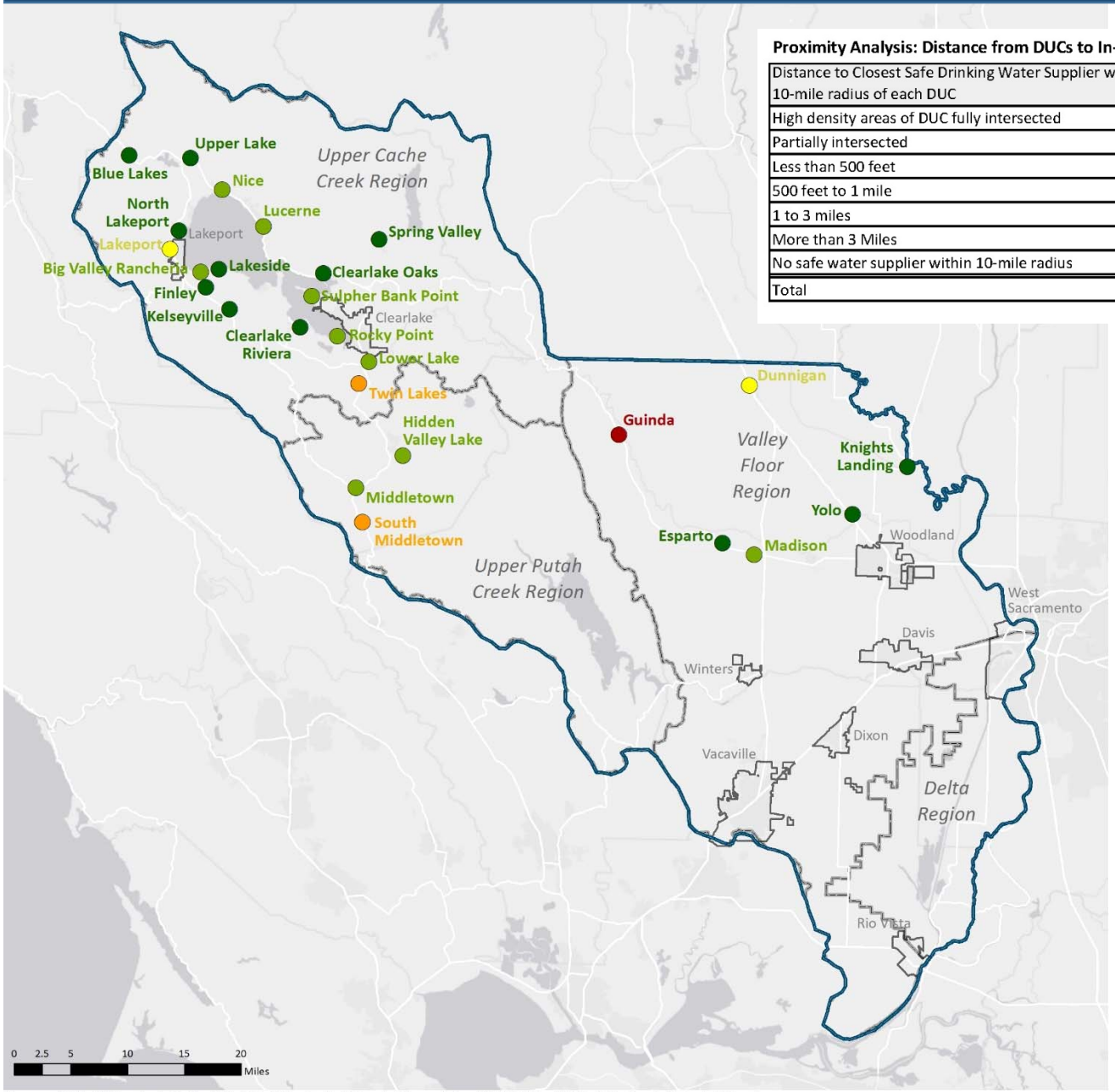


*No data for Big Valley Rancheria, Finley, Sulpher Bank Point, Rocky Point, South Middleton

Westside IRWM Disadvantaged Unincorporated Communities Study
September 12, 2018

Proximity Analysis: Distance from DUCs to In-Compliance PWSs

Distance to Closest Safe Drinking Water Supplier within a 10-mile radius of each DUC	Number of DUCs	Percentage of DUCs	Number of people	Percentage of people
High density areas of DUC fully intersected	12	46.2%	20,177	52.9%
Partially intersected	9	34.6%	15,736	41.3%
Less than 500 feet	2	7.7%	1,643	4.3%
500 feet to 1 mile	0	0.0%	0	0.0%
1 to 3 miles	2	7.7%	395	1.0%
More than 3 Miles	0	0.0%	0	0.0%
No safe water supplier within 10-mile radius	1	3.8%	185	0.5%
Total	26	100%	38,136	100%



Proximity of DUCs to a Safe Drinking Water Supply

Proximity to an In-Compliance PWS

- High density areas fully intersected
- Partially intersected
- Less than 500 feet
- 1 to 3 miles
- No safe water supplier within 10-mile radius
- Westside IRWM Boundary
- Incorporated Areas
- Westside IRWM Regions

Data sources: Census 2010, CA SWRCB, CEHTP, Westside IRWM
Map created by S. Watterson, Sep 2018

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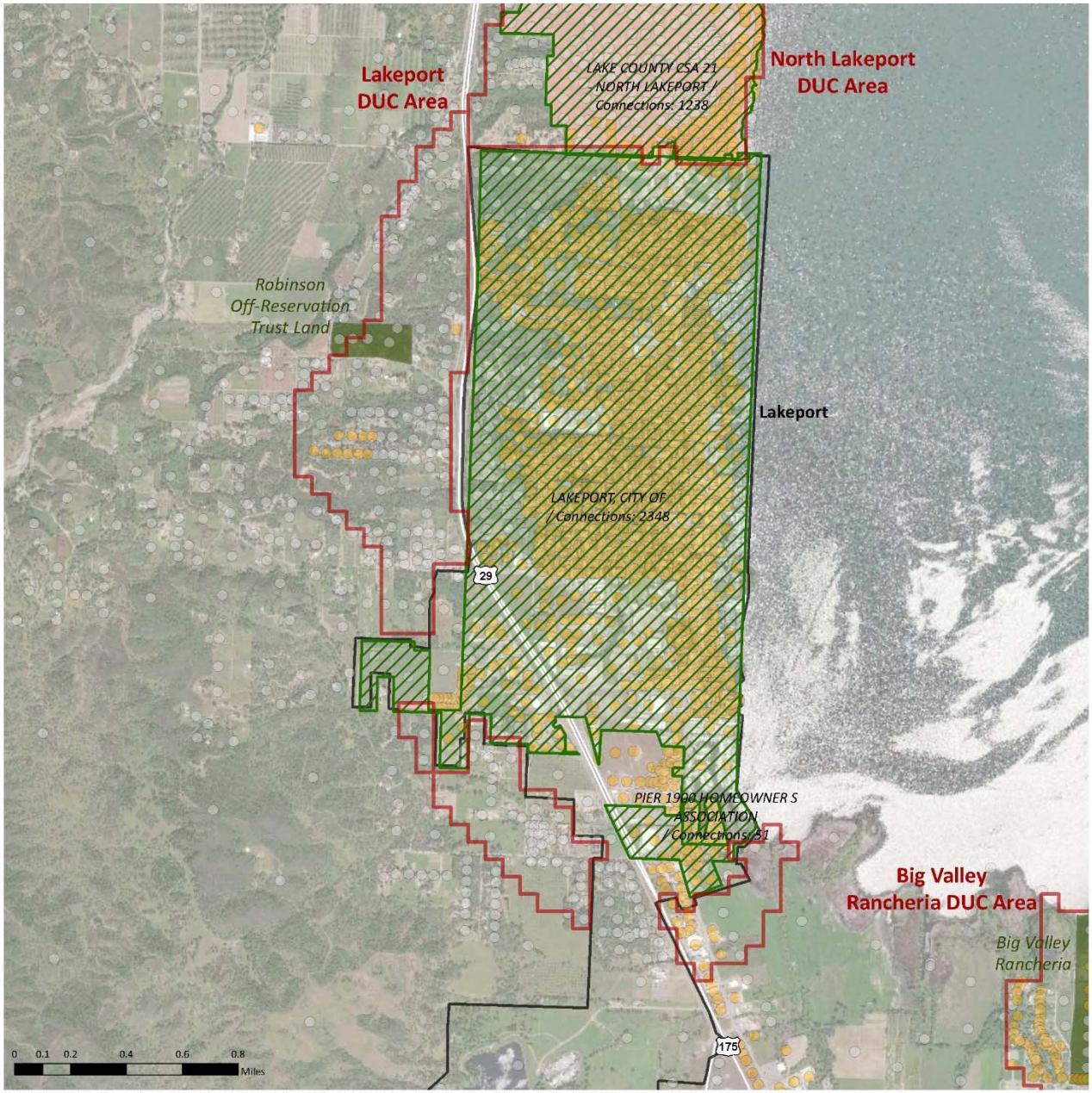

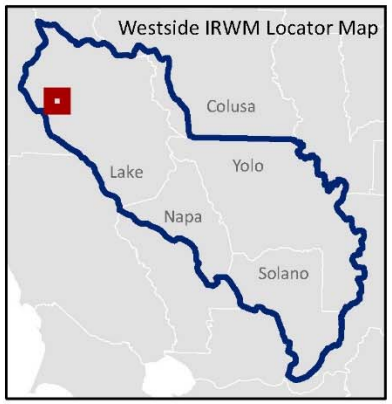

Westside IRWM Communities: Lakeport

DUC Population: 661

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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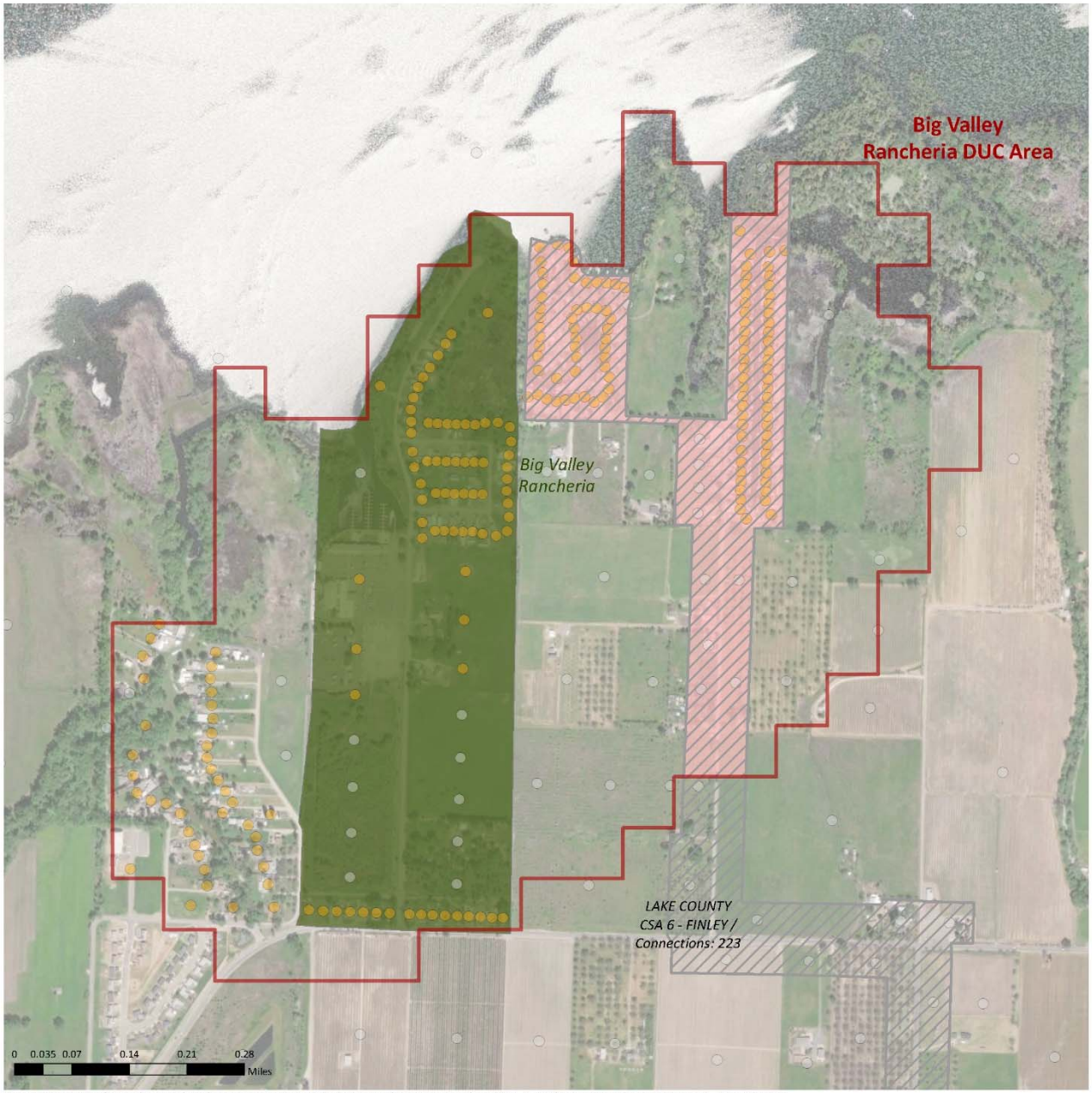

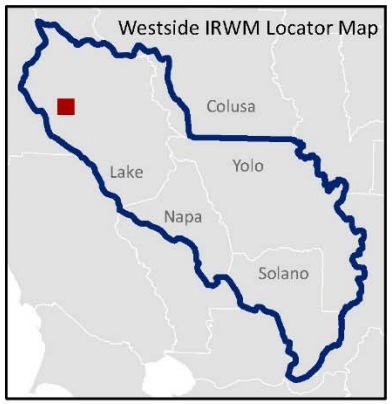

Westside IRWM Communities:
Big Valley Rancheria

DUC Population: 528

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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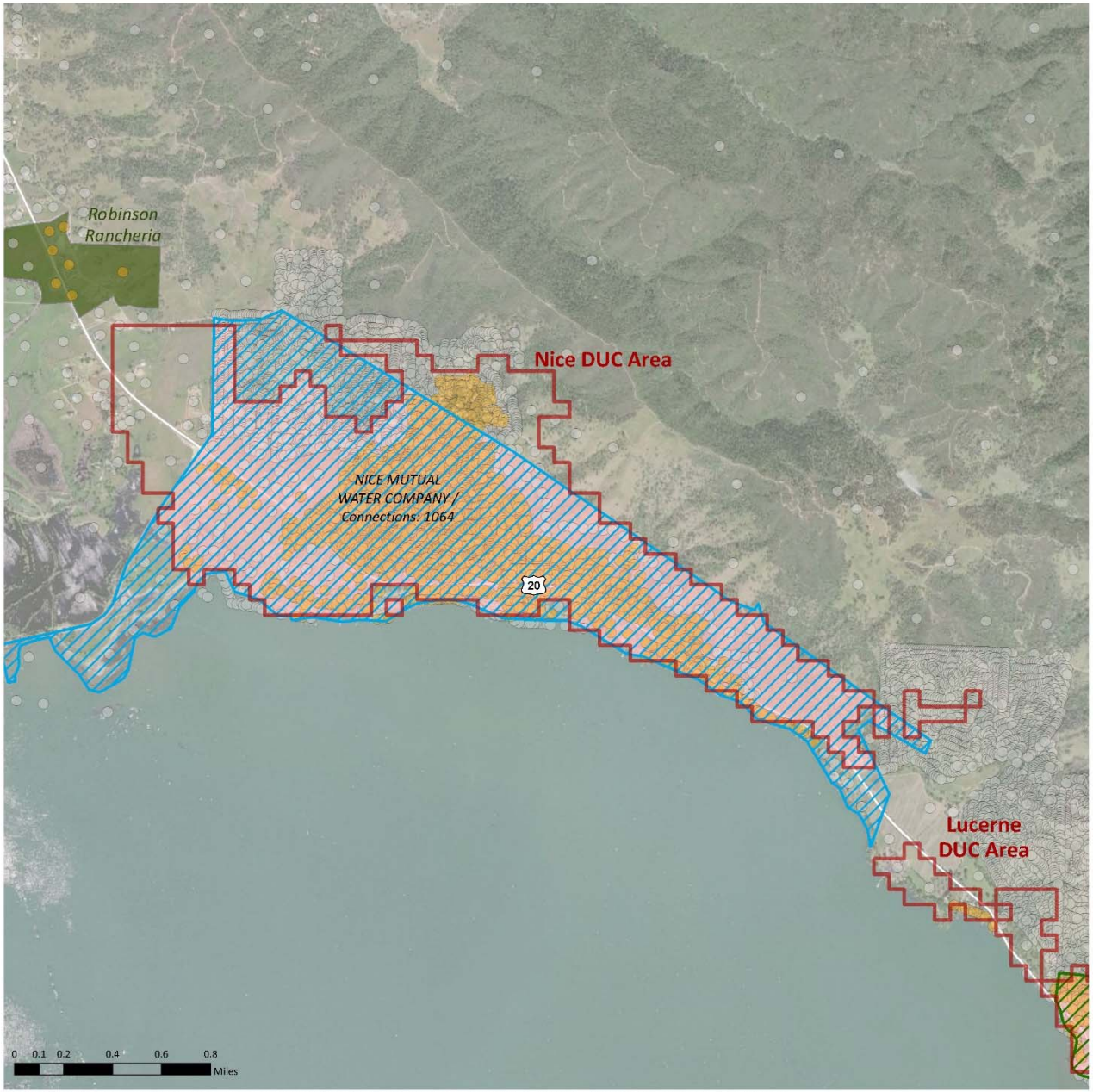

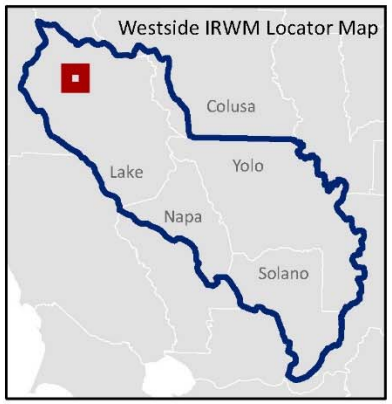

Westside IRWM Communities:
Nice

DUC Population: 2809

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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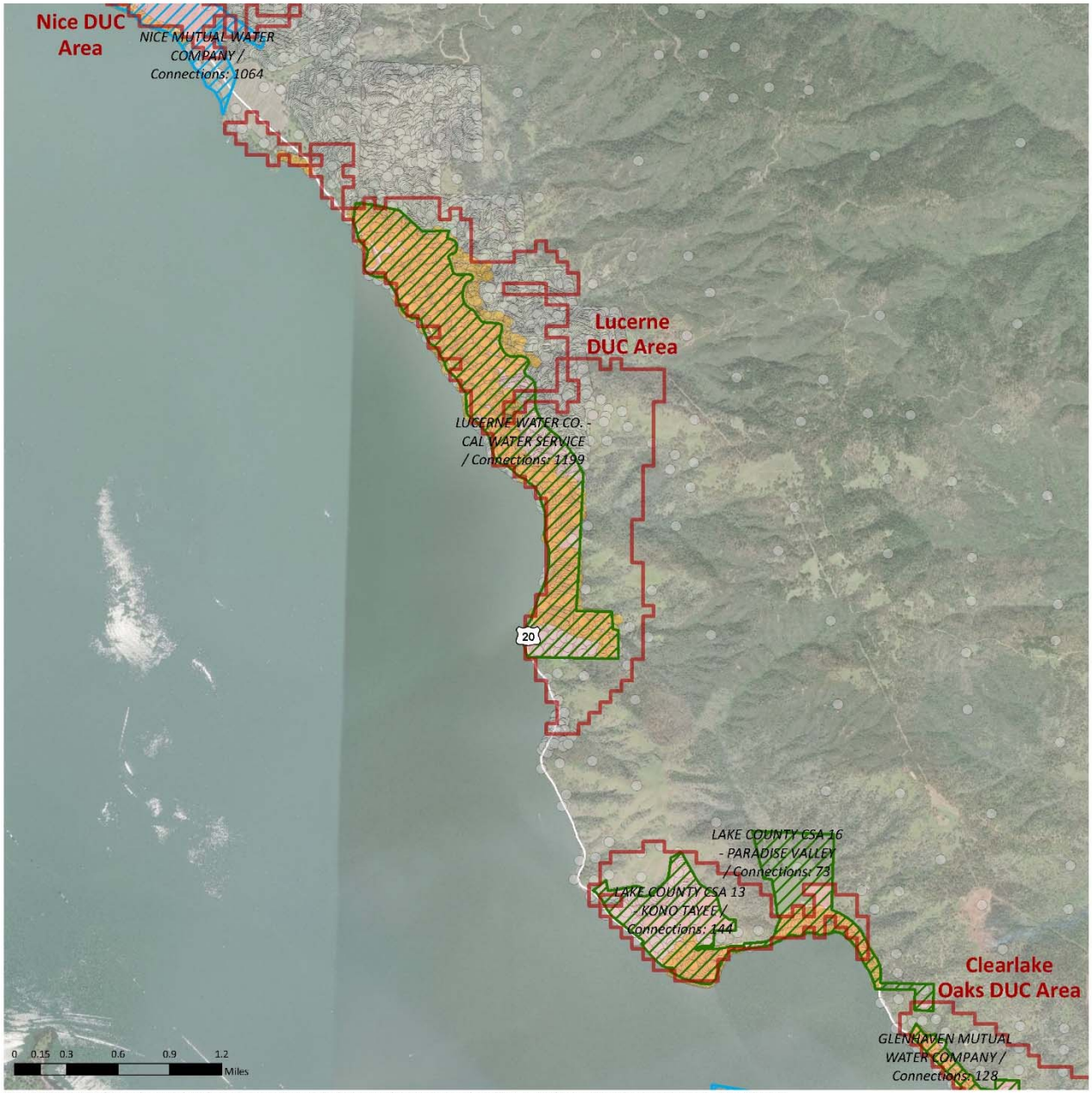

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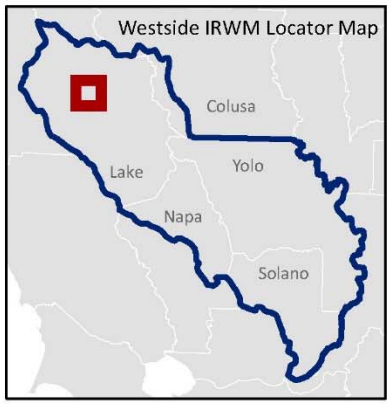

Westside IRWM Communities: Lucerne

DUC Population: 3105

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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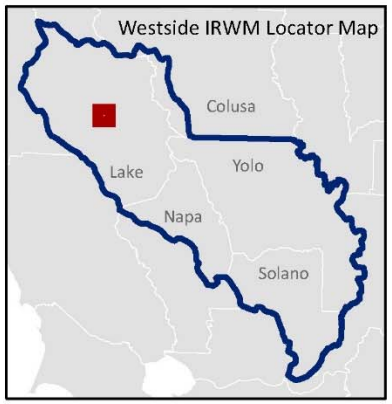

Westside IRWM Communities: Sulpher Bank Point

DUC Population: 359

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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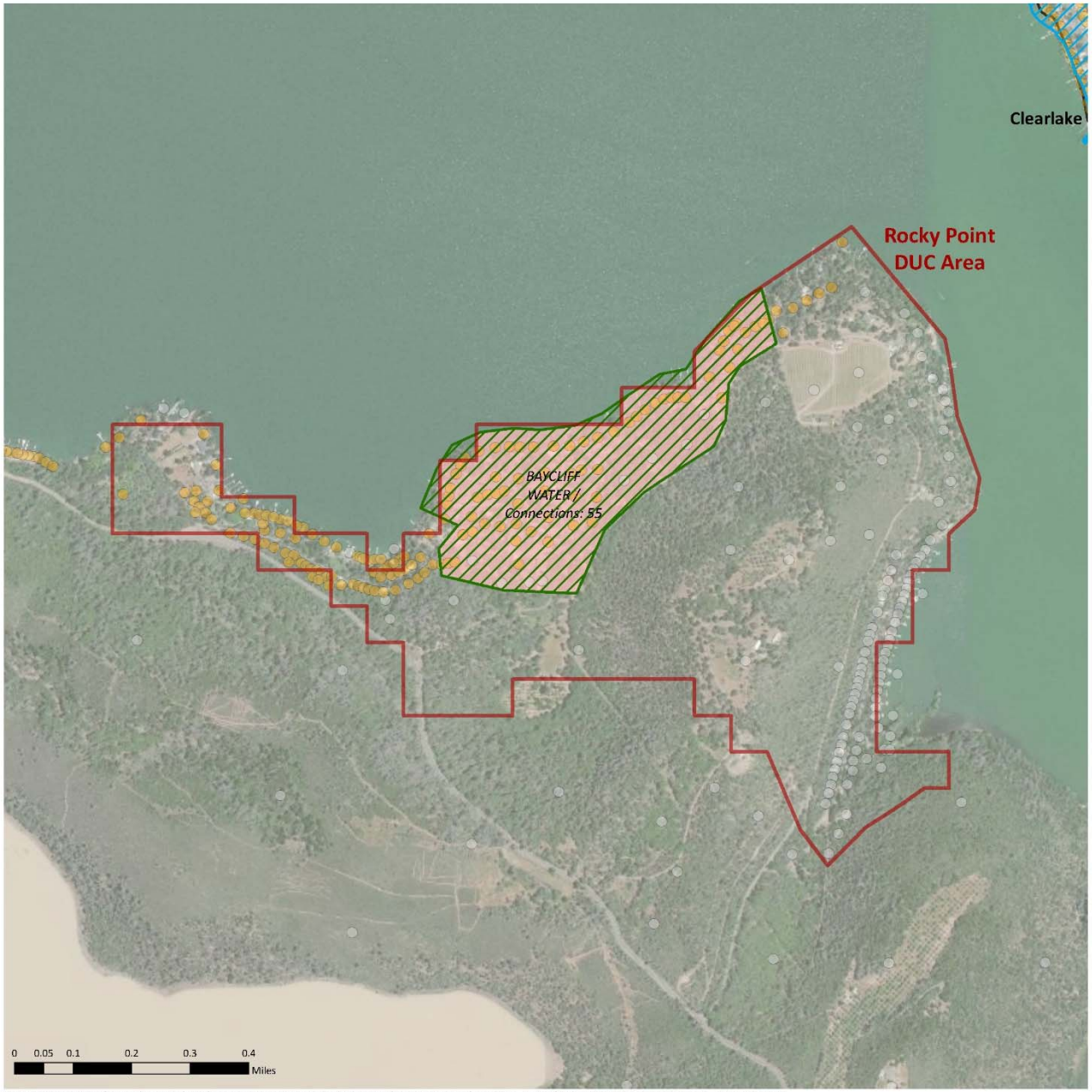

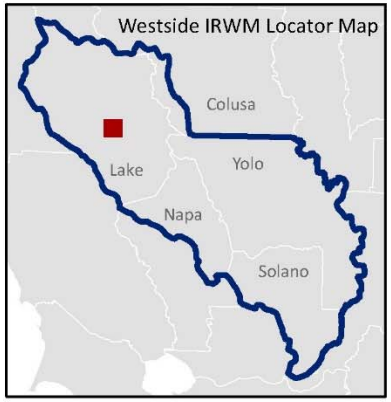

Westside IRWM Communities:
Rocky Point

DUC Population: 150

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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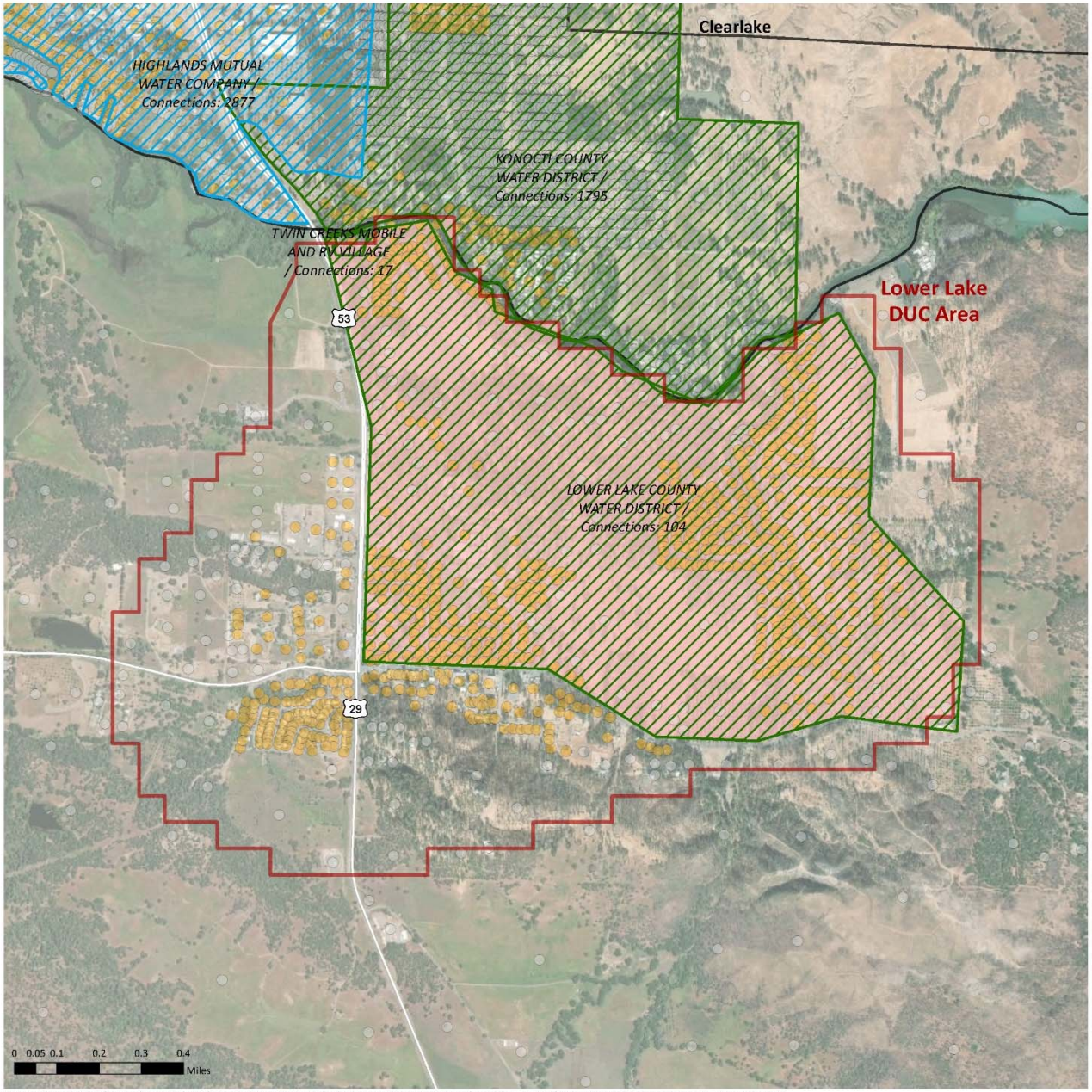
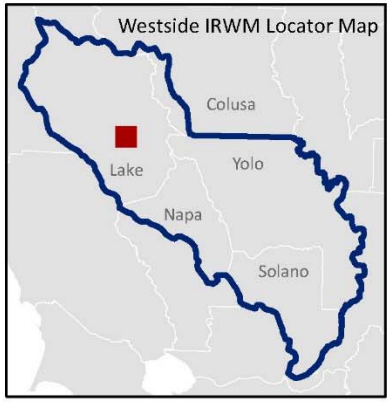
September 12, 2018





Westside IRWM Communities: Lower Lake

DUC Population: 1434

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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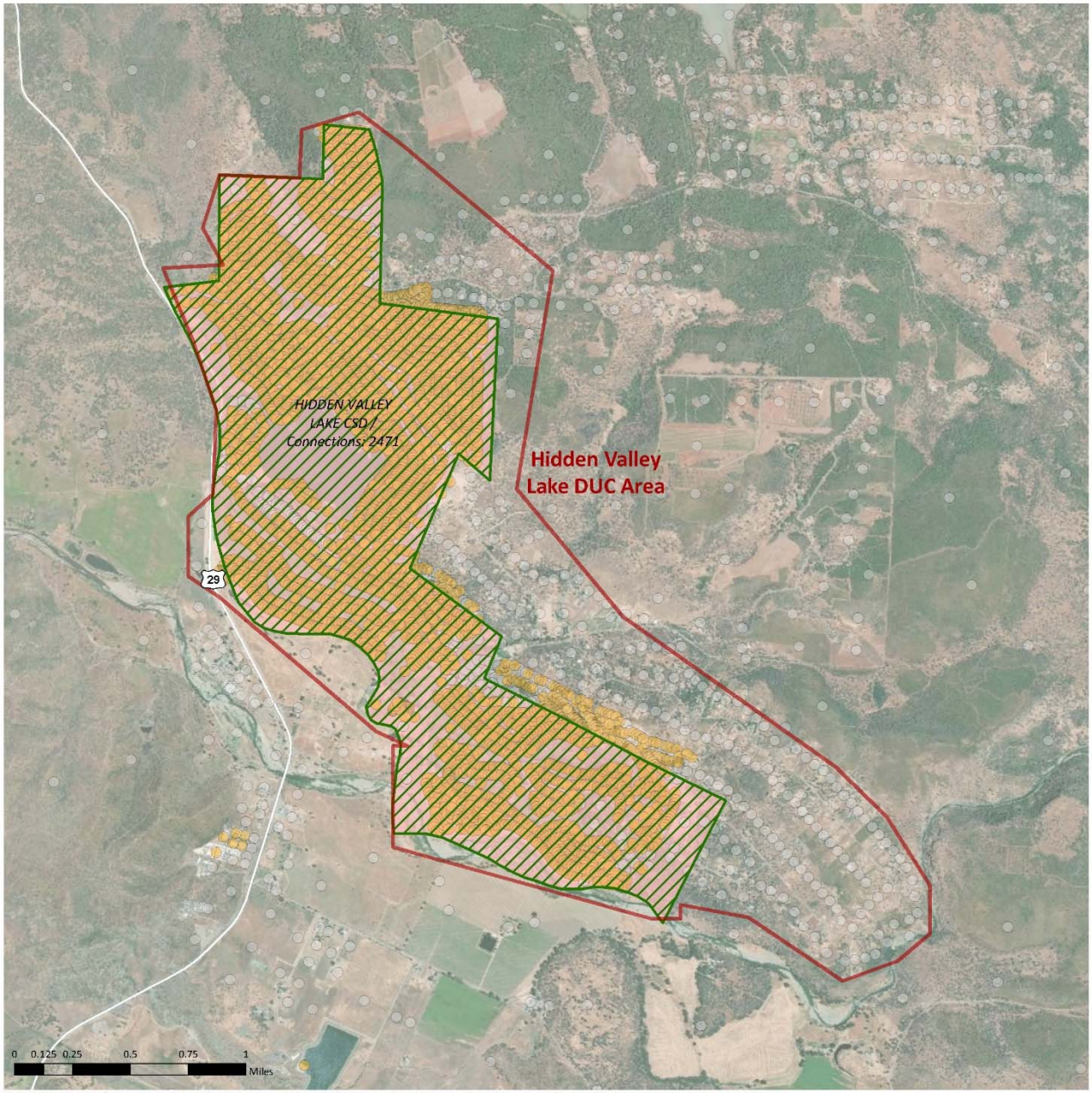

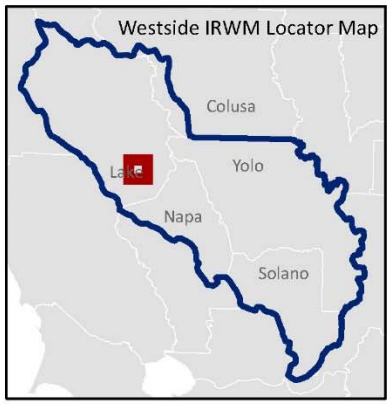

Westside IRWM Communities:
Hidden Valley Lake

DUC Population: 5522

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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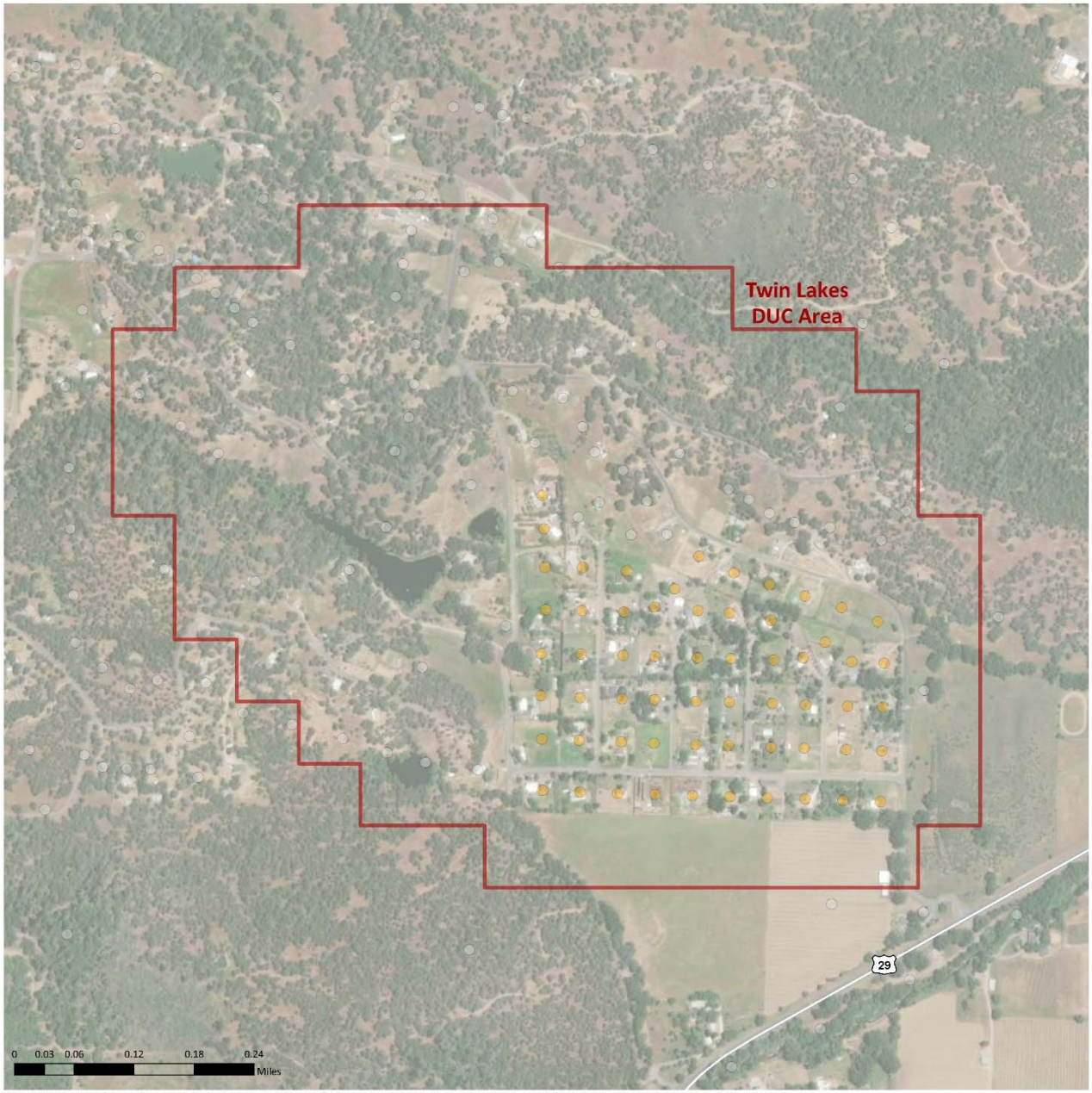

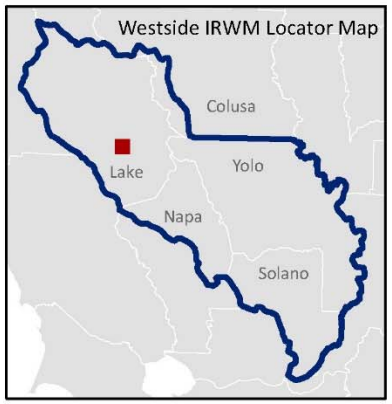

Westside IRWM Communities:
Twin Lakes

DUC Population: *281*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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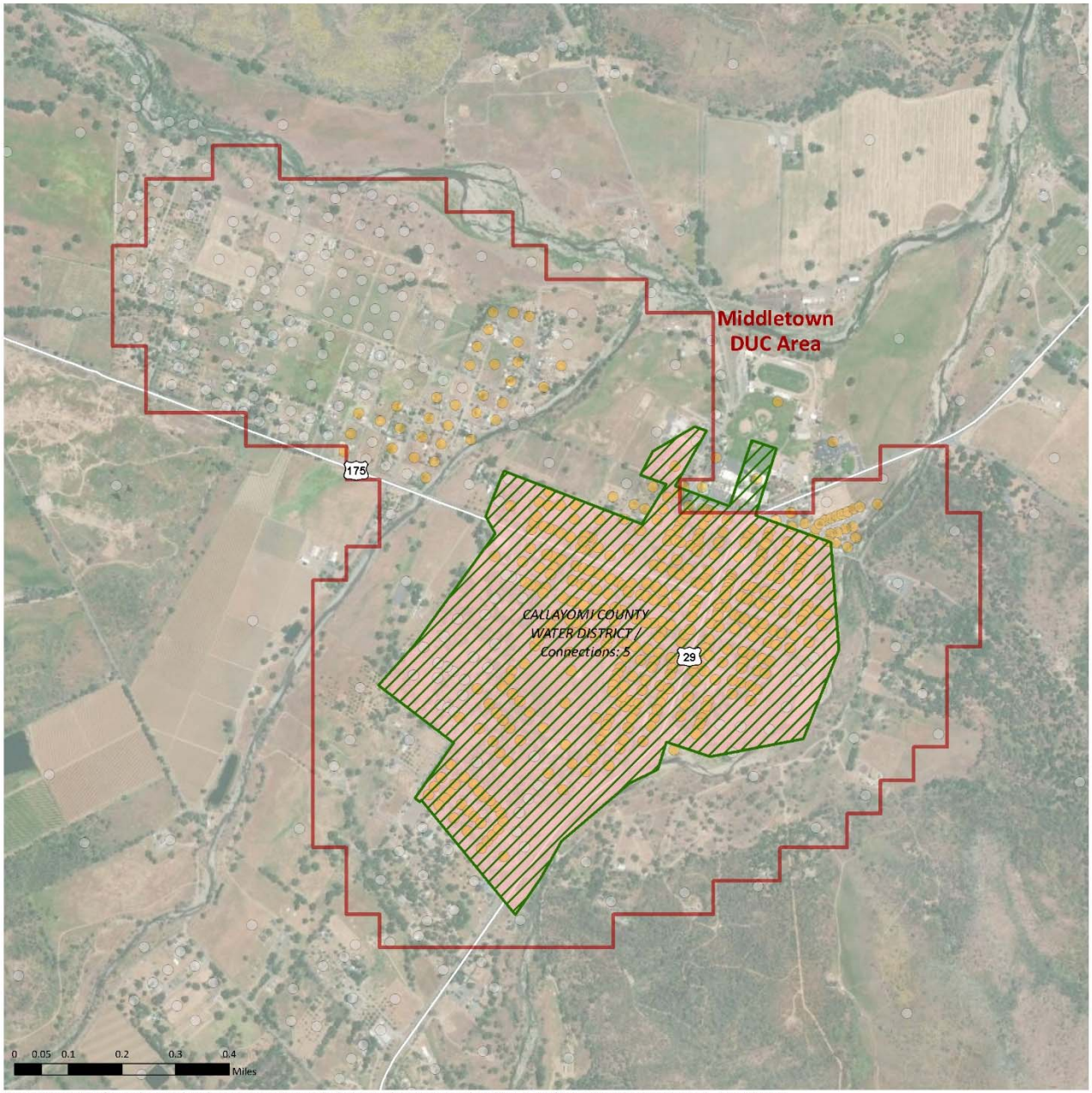

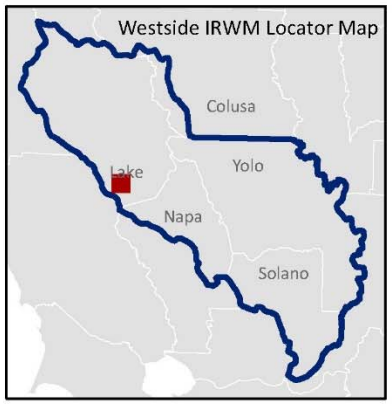

Westside IRWM Communities: Middletown

DUC Population: *1334*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
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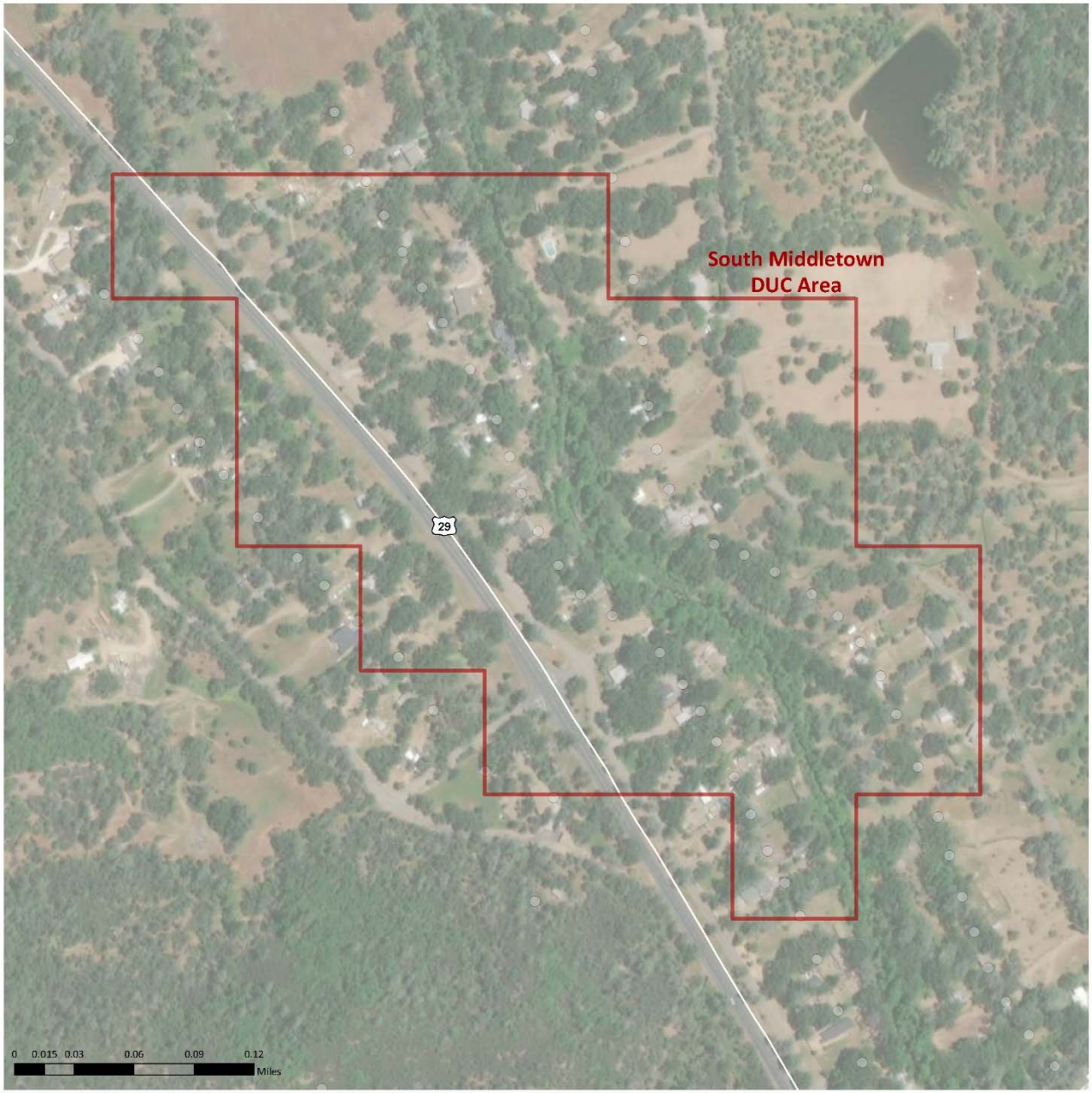

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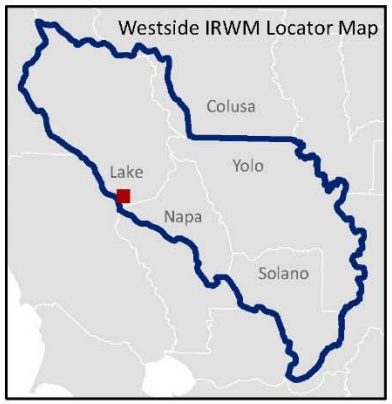

Westside IRWM Communities:
South Middletown

DUC Population: *114*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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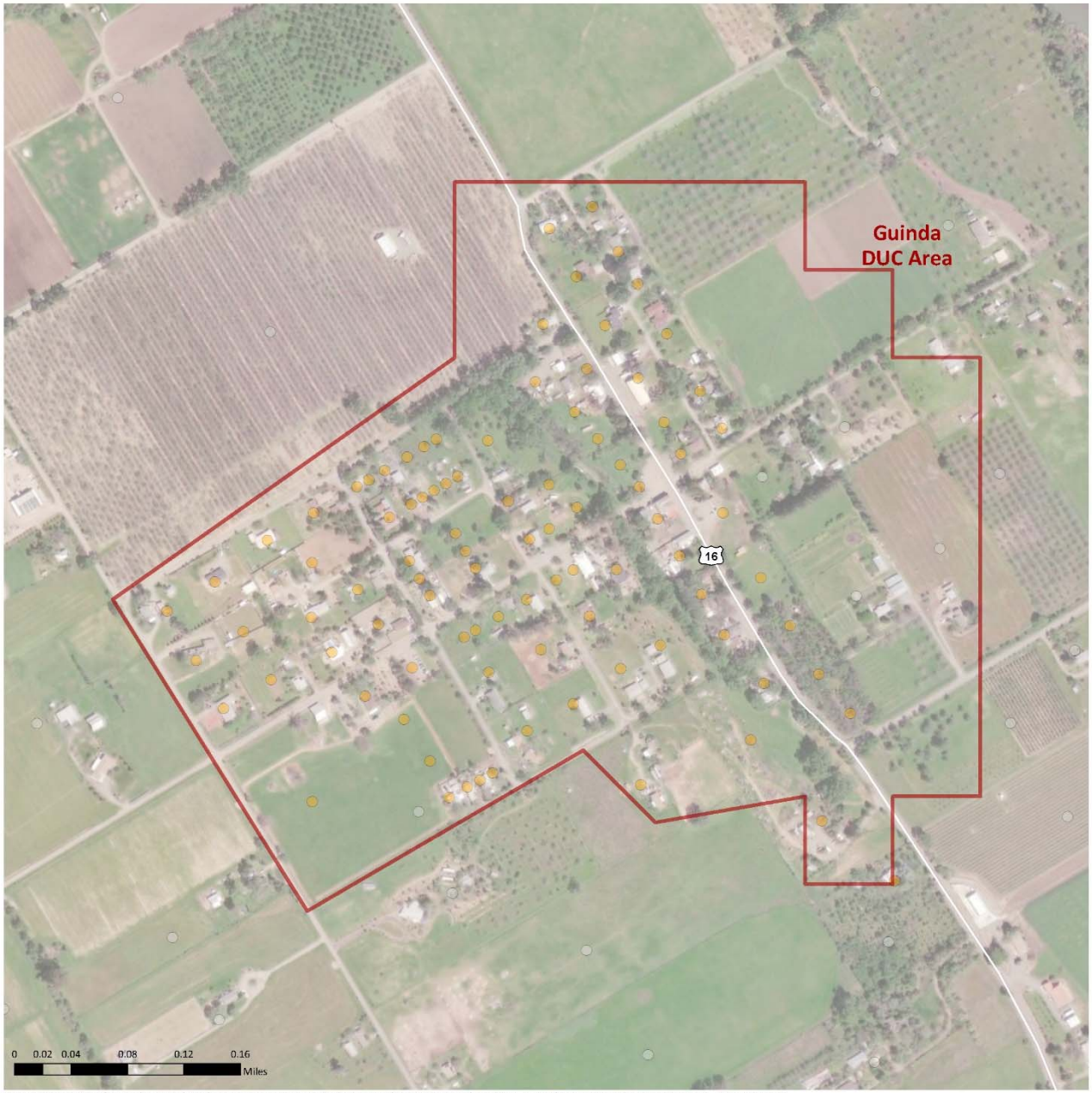

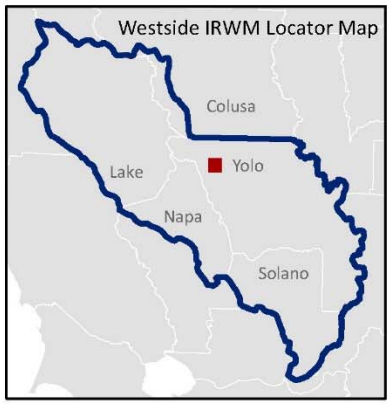

Westside IRWM Communities:
Guinda

DUC Population: *185*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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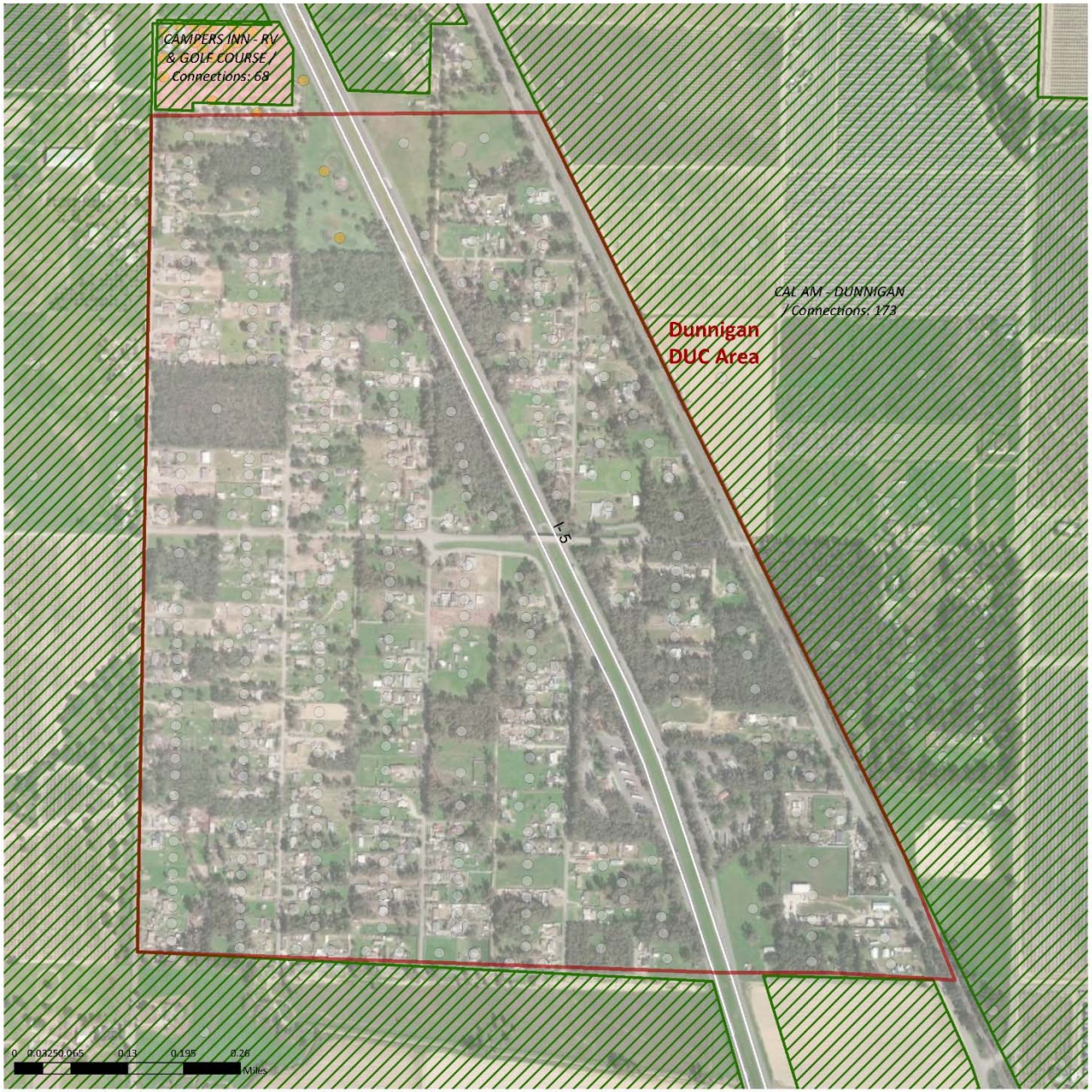

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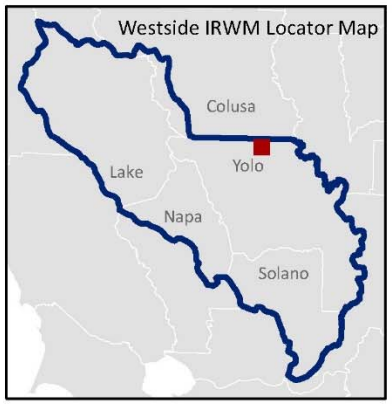

Westside IRWM Communities:
Dunnigan

DUC Population: *982*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM Map created by S. Watterson, September 2018

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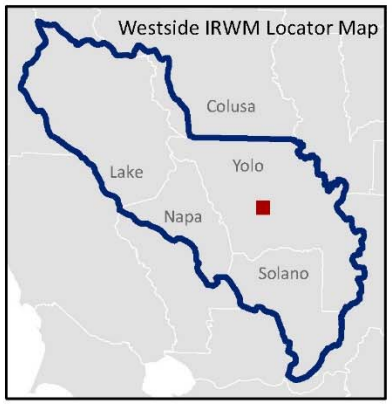

Westside IRWM Communities: Madison

DUC Population: *495*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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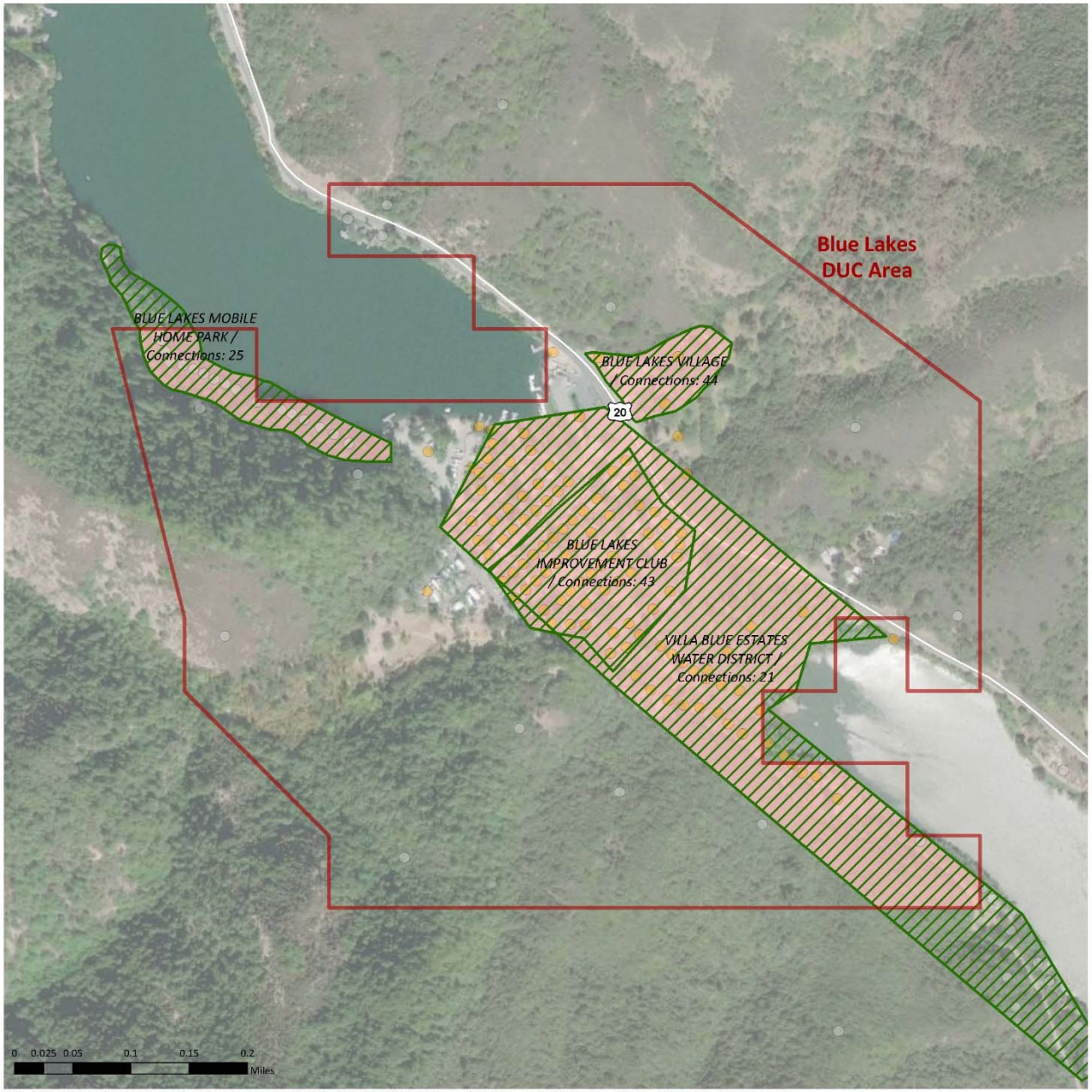
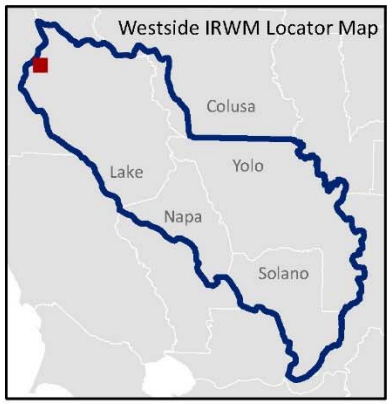
Further Discussion

- Do you agree with identified DUCs?
- Do you think some DUCs should be eliminated from the list, and are there other communities that should be on it?
- Are there other elements or data that should be represented on the maps?





Westside IRWM Communities:
Blue Lakes

DUC Population: *272*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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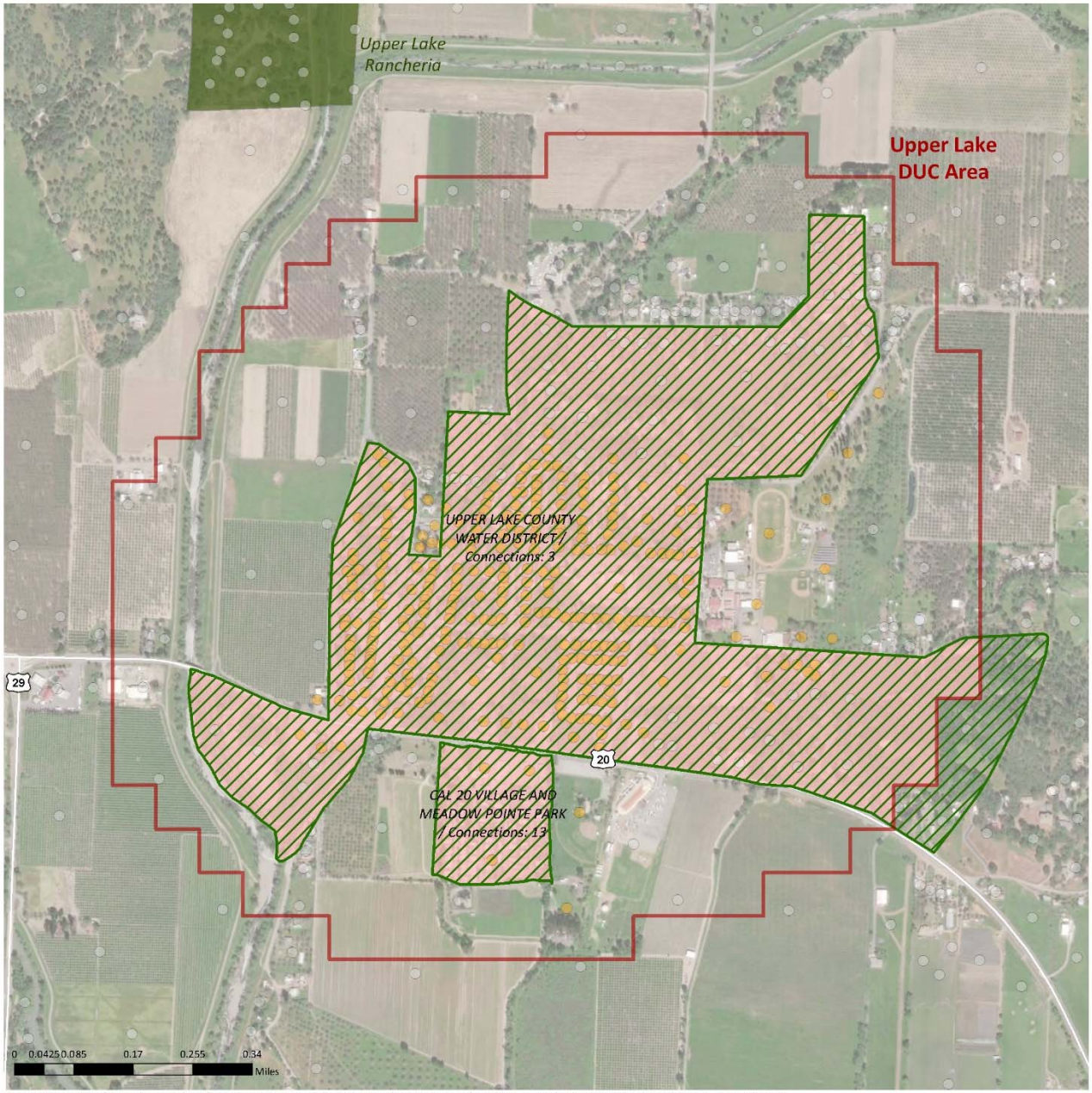

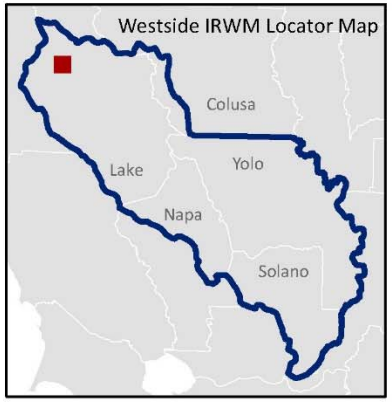

Westside IRWM Communities:
Upper Lake

DUC Population: *1173*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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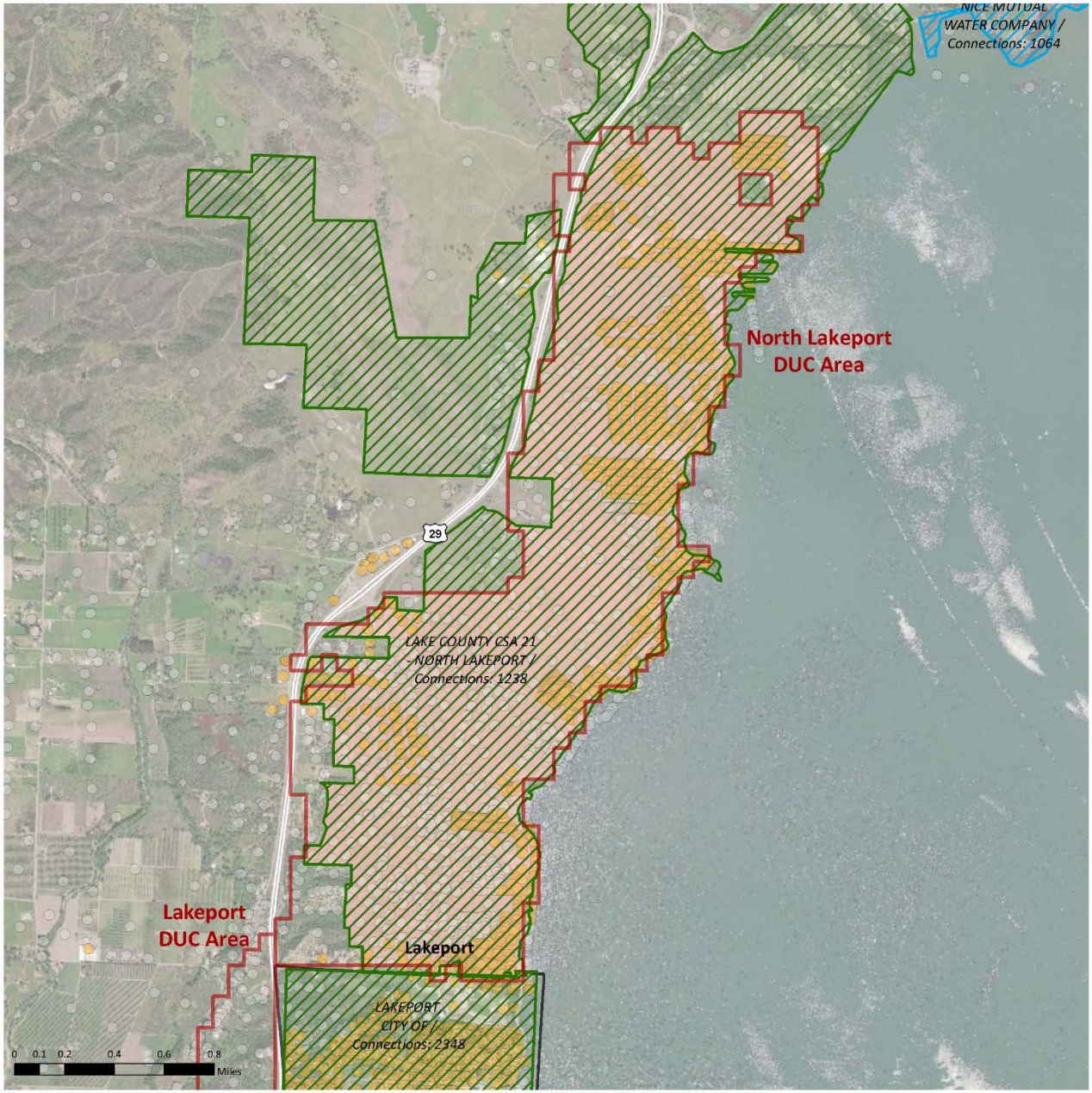

Westside IRWM Communities:
North Lakeport

DUC Population: *3311*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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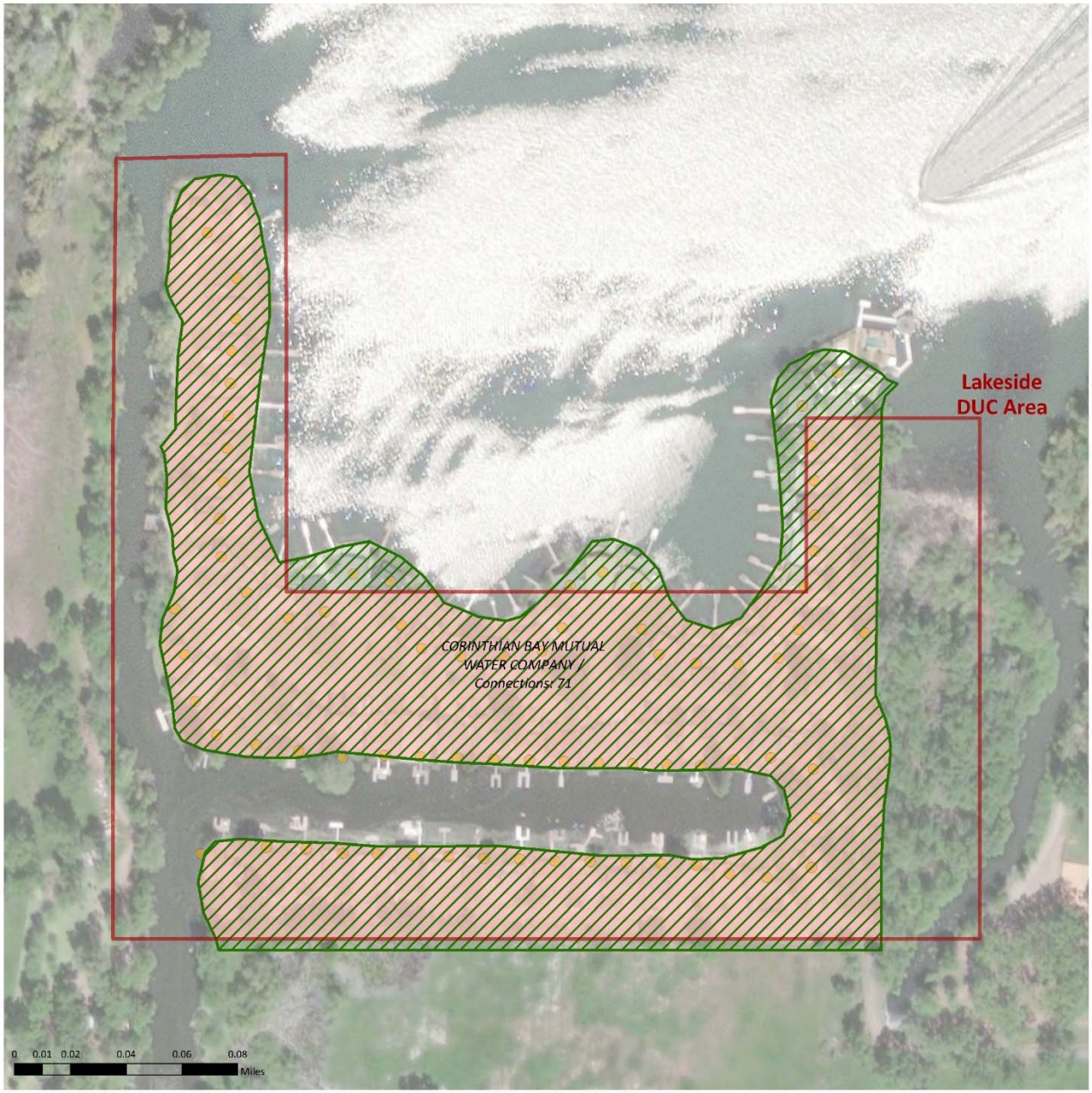

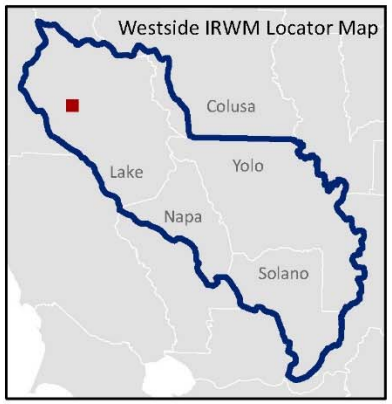

Westside IRWM Communities:
Lakeside

DUC Population: 129

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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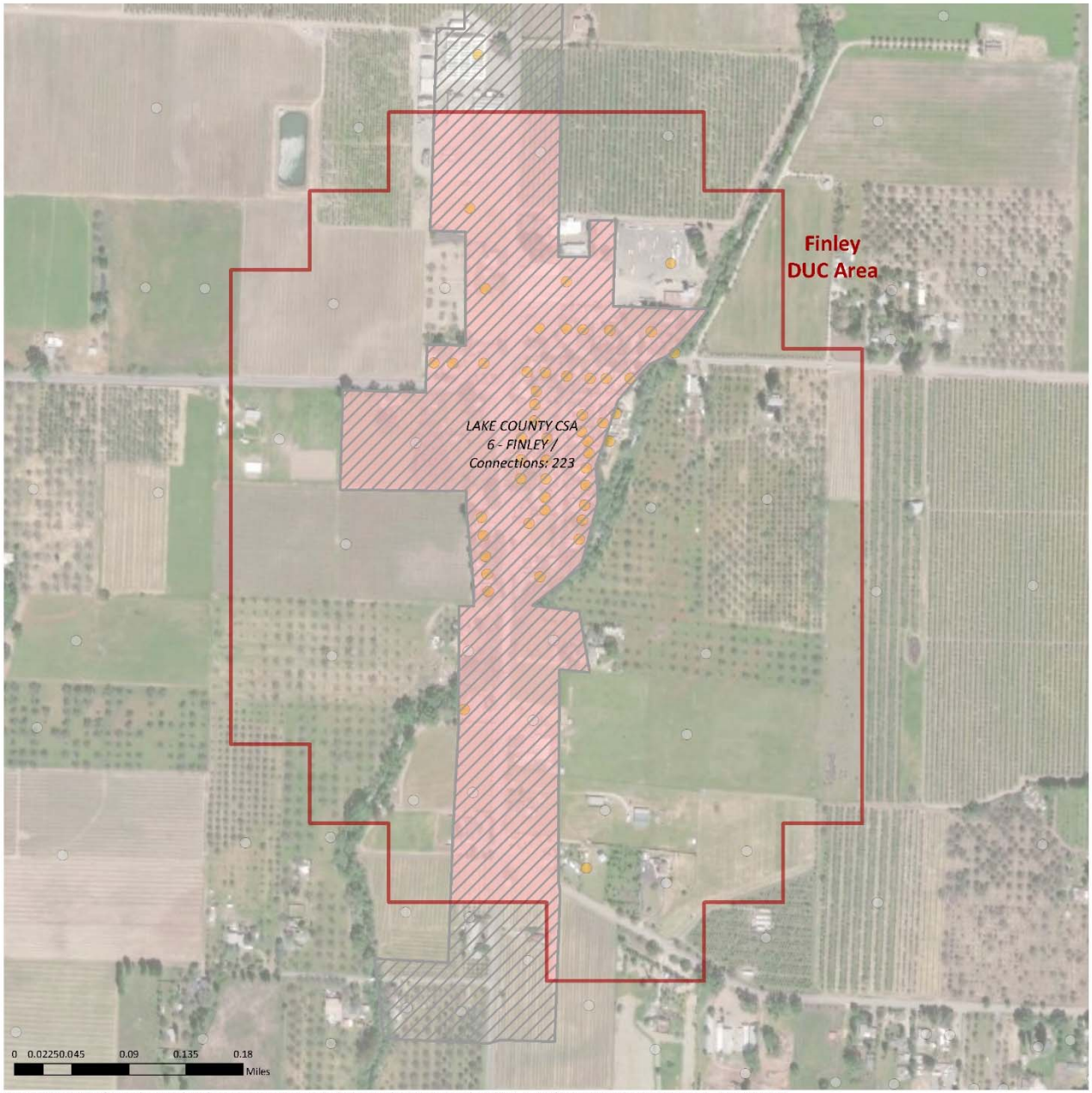

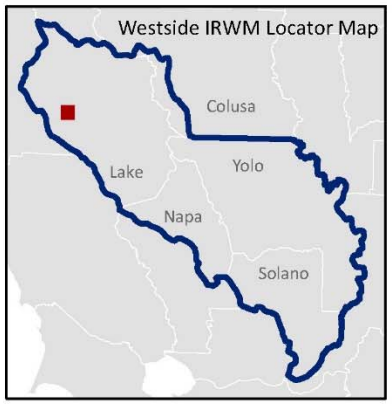

Westside IRWM Communities:
Finley

DUC Population: *266*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
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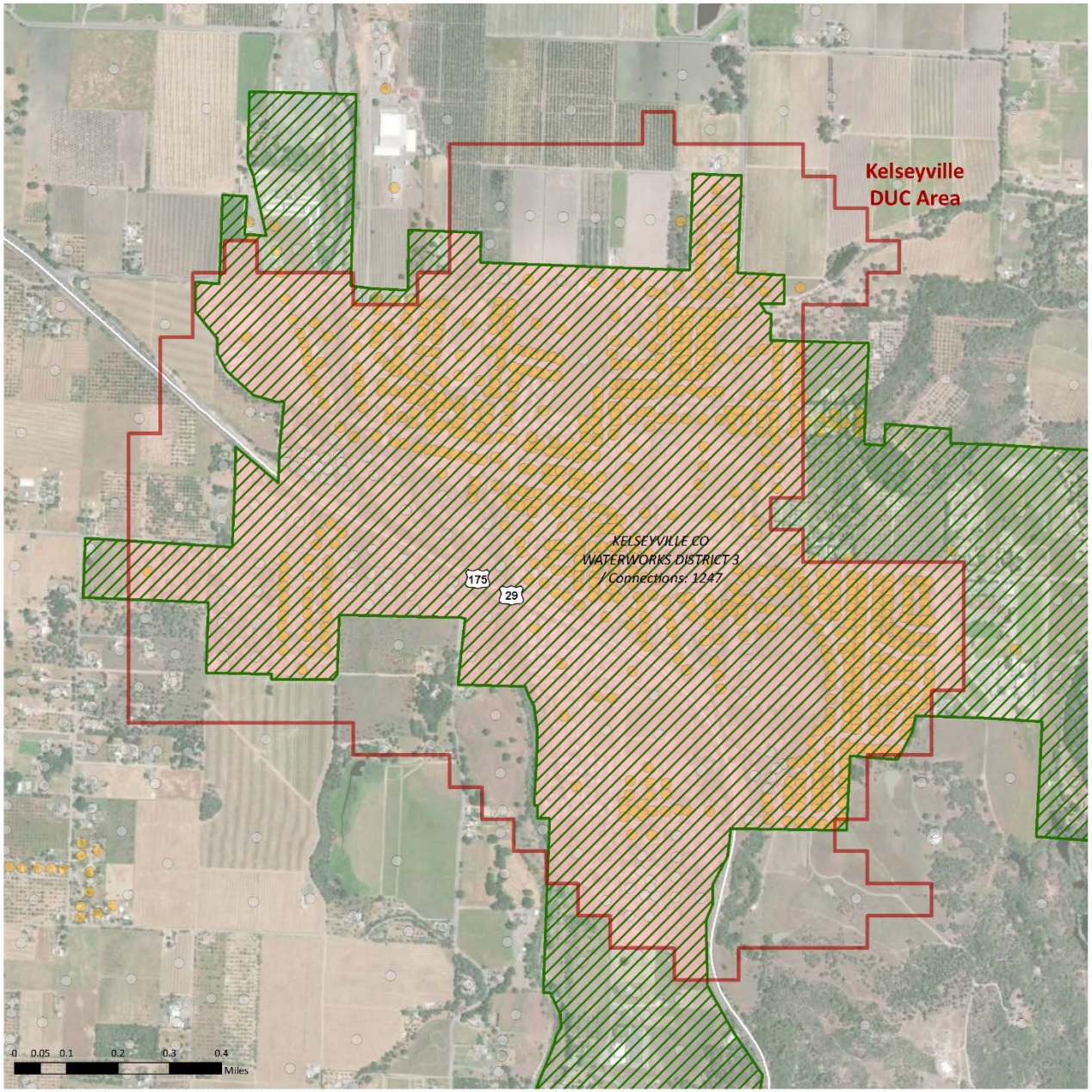

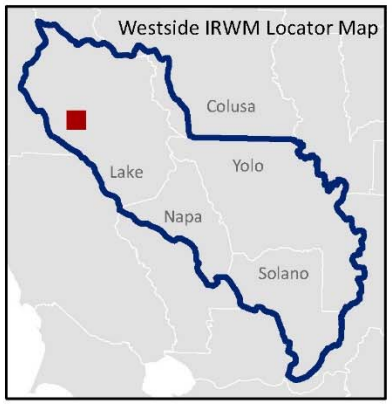

Westside IRWM Communities:
Kelseyville

DUC Population: *3497*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
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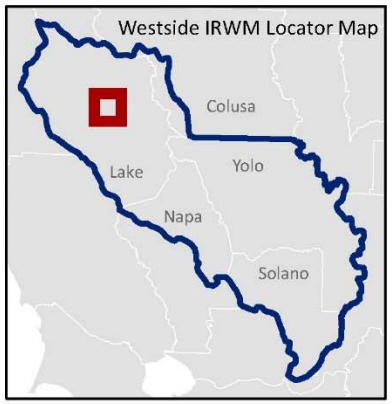

Westside IRWM Communities: Clearlake Oaks

DUC Population: 2873

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

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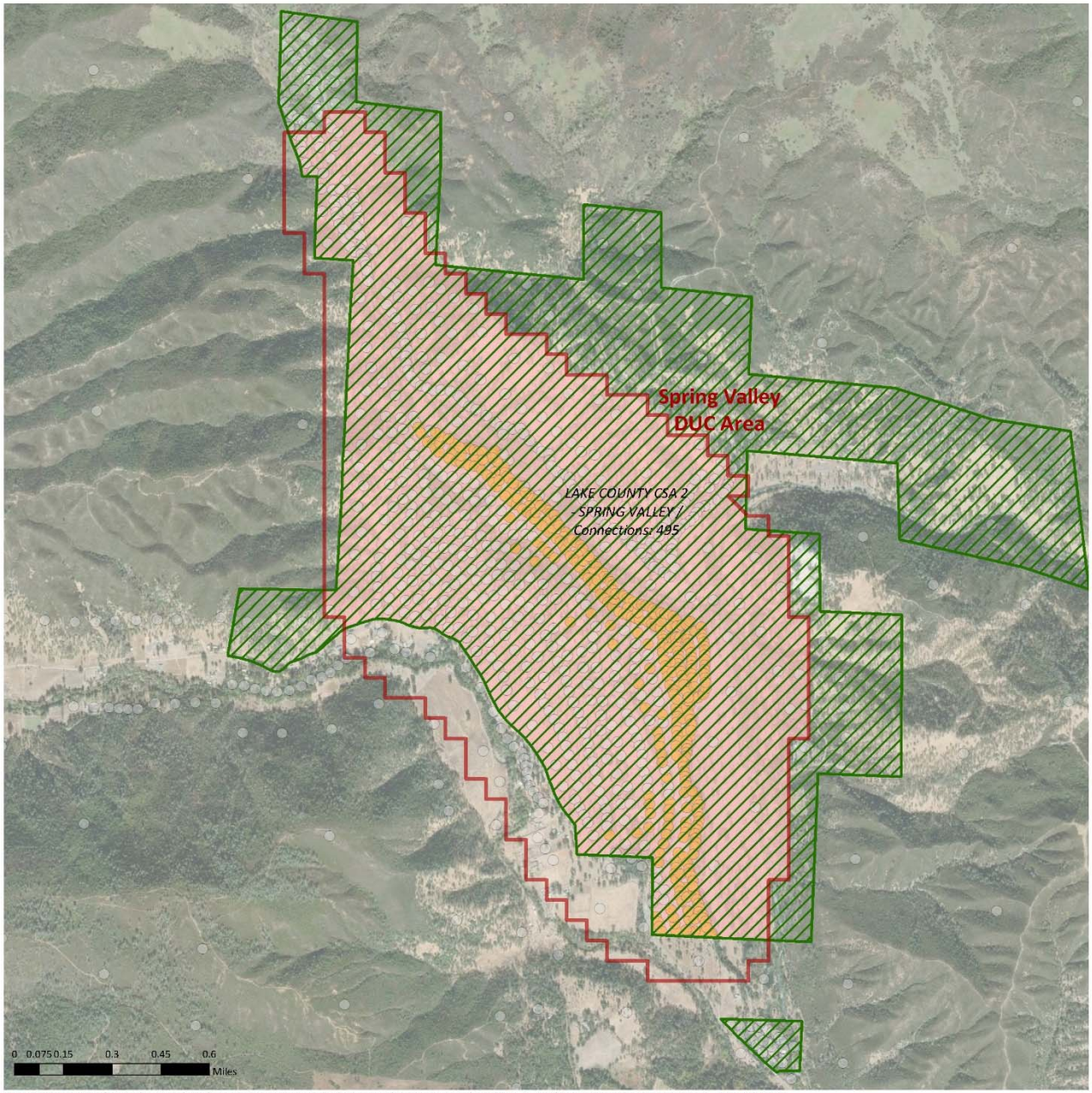

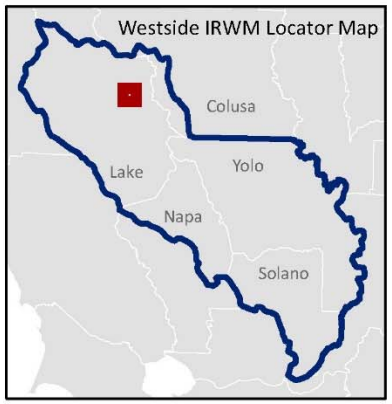

Westside IRWM Communities:
Spring Valley

DUC Population: 843

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
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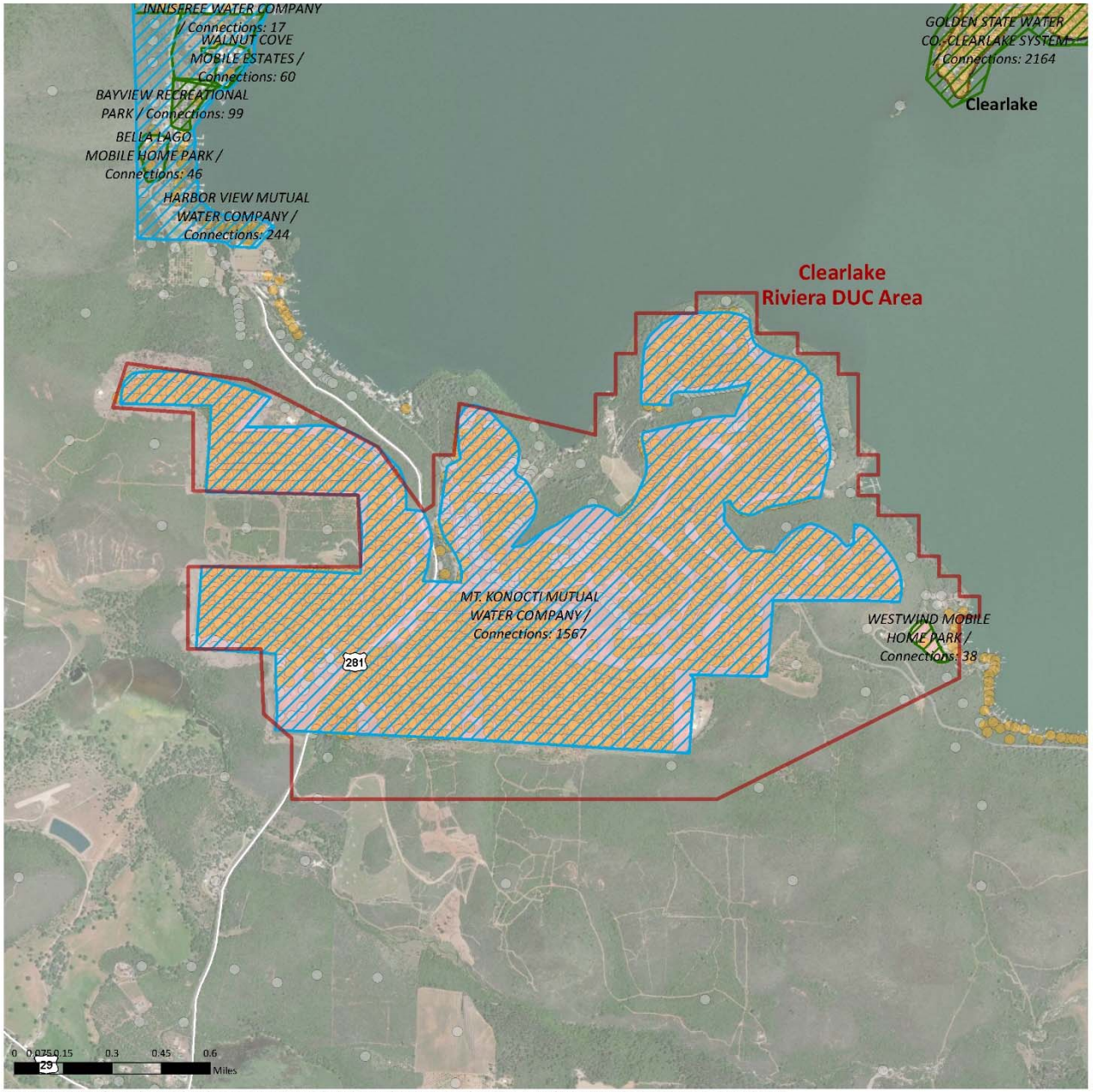

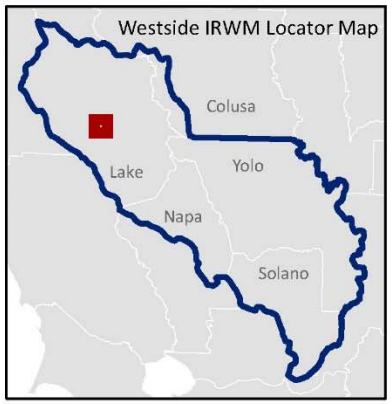

Westside IRWM Communities: Clearlake Riviera

DUC Population: 3209

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM Map created by S. Watterson, September 2018

UCDAVIS CENTER FOR REGIONAL CHANGE

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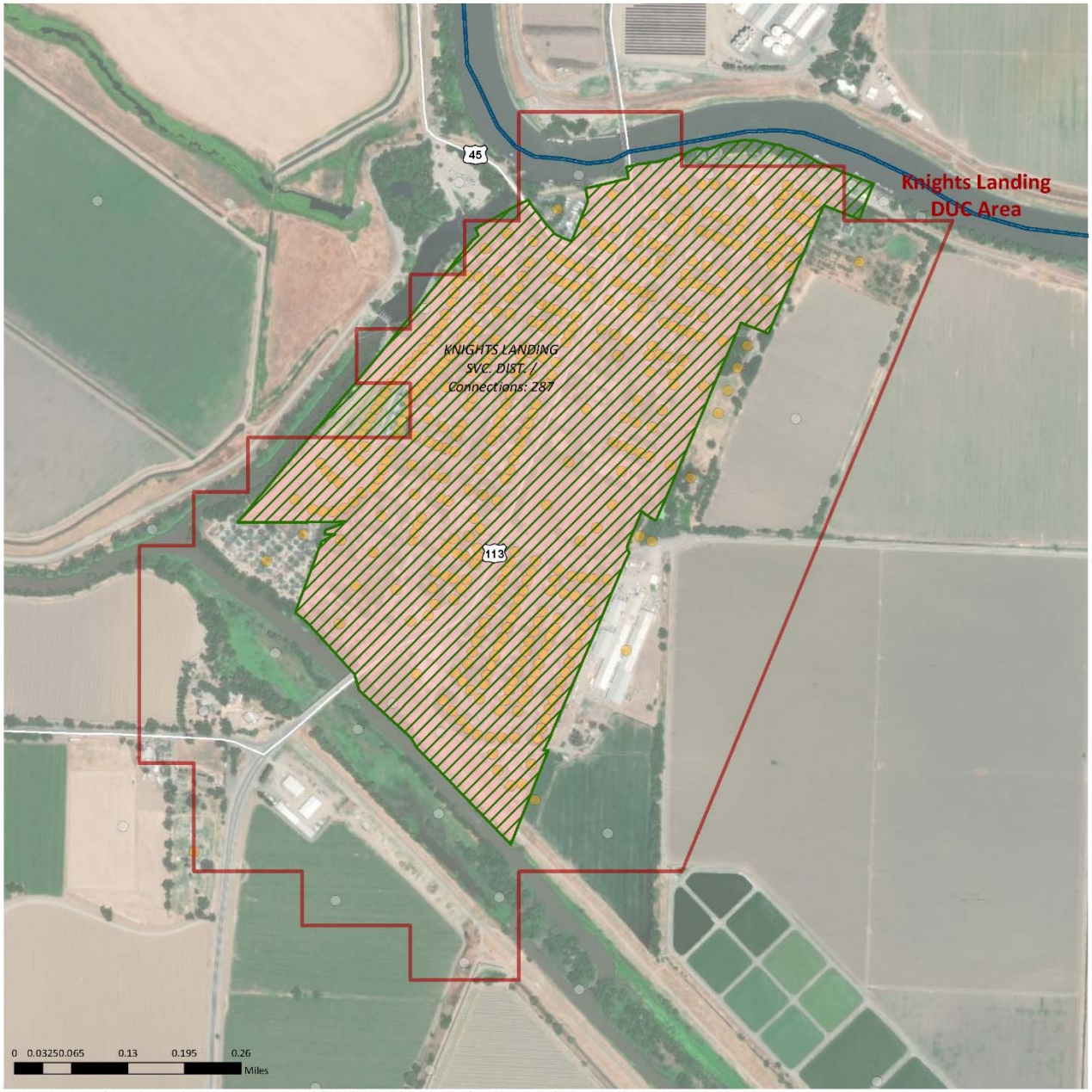

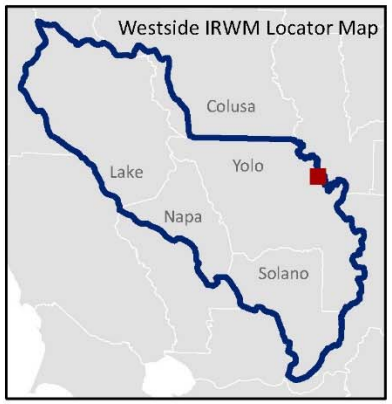

Westside IRWM Communities:
Knights Landing

DUC Population: *1105*

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
Map created by S. Watterson, September 2018

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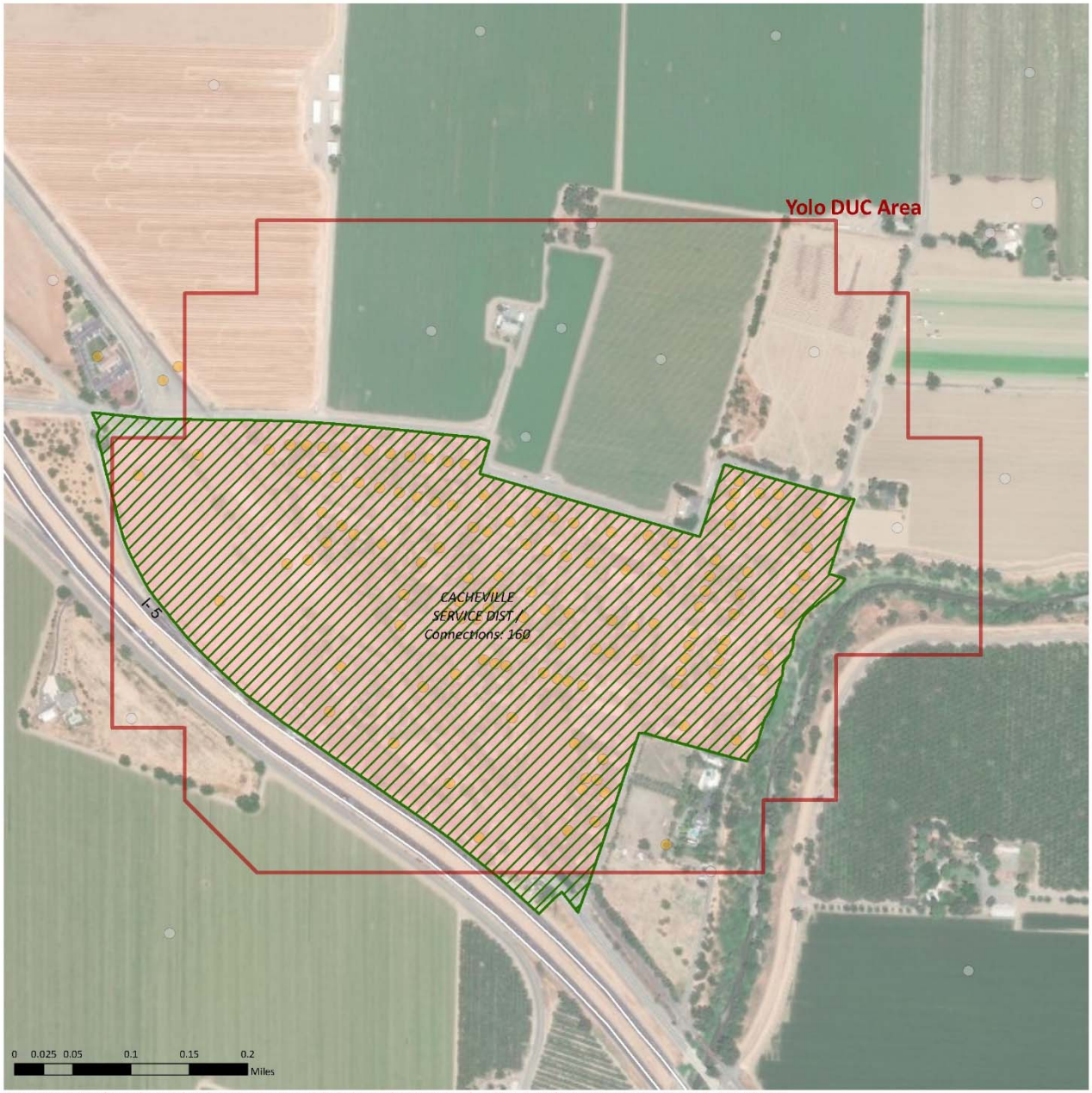

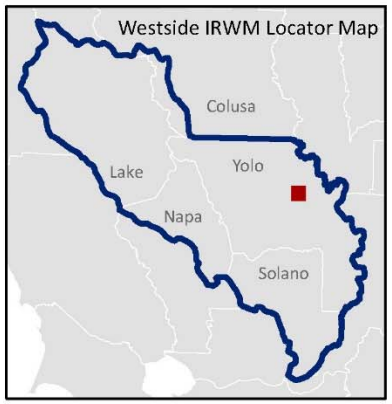

Westside IRWM Communities:
Yolo

DUC Population: 494

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

* Some parcels might be holdings/undeveloped
** Boundaries and compliance status current as of June 6, 2018

Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM
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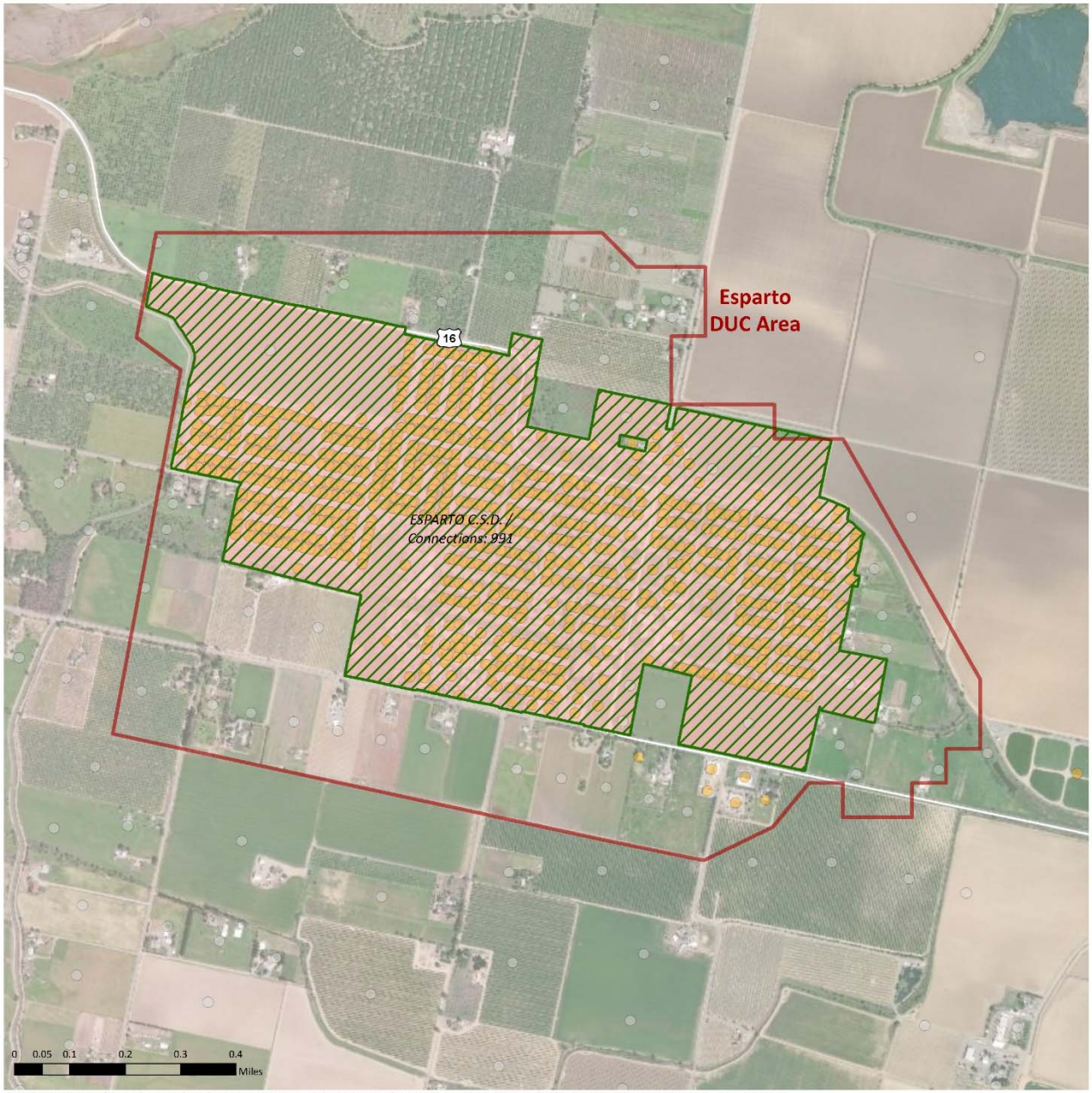

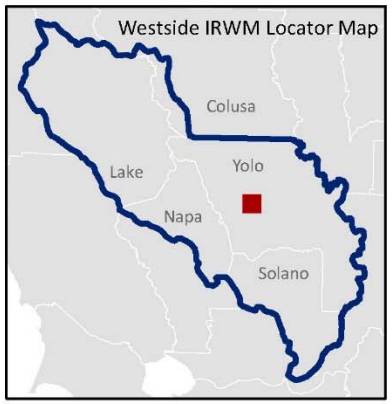

Westside IRWM Communities:
Esparto

DUC Population: 3005

- Parcels on urban & built up lands
- Parcels on all other lands*
- Possible DUCs
- DUC Intersected by a water provider
- Incorporated Areas
- Tribal Lands
- Westside IRWM Boundary

Public Water System (PWS)**

- In Compliance
- Returned to Compliance
- Out of Compliance
- Not Available

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Sources: Census 2010; CA SWRCB; CEHTP; Colusa, Lake, Napa, Solano, and Yolo counties; FMMP; Westside IRWM Map created by S. Watterson, September 2018

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Sacramento River Funding Area DACIP

Phase 1 Status Update

1. **TMF Needs Assessments**: Formal Water Purveyor-based TMF (Technical, Managerial, and Financial) **Needs Assessments** of all of the **DAC PLACES as identified by DWR's 2014 version of the DAC mapping tool** have been underway in the region since October of 2017. The table at the end of this report provides summary results for all TMF-NA completed in Westside by the various Technical Circuit Riders during Phase 1. These results have informed the Phase 2 (year 2) Work Plan.

2. **Community-based Needs Assessment:** A sub-task to the DAC-Place Water Purveyor Needs Assessments was the Community-based Needs Assessments. Westside selected the community of Kelseyville for this task in Phase 1.

   Throughout the spring of this year, Quiroz Communications engaged the community of Kelseyville in an effort to better understand the water-related issues affecting the community and public's perceptions of these issues. They conducted extensive outreach to the Latino community, including visiting housing complexes inhabited almost exclusively by Latinos, doing a presentation to parents of English Learner Program students at Kelseyville Elementary, interviewing representatives of community-based organizations serving the Latino community and visiting agricultural labor camps.

   Key Findings:

   - **Regional Water Quality Issues** – The team identified regional variation in reported water quality during the CBNA, possibly due to variation distribution system age. The people interviewed in the lower income, older and mostly Latino part of town voiced concerns about the quality of the tap water. Many describe it as murky and odorous. Some describe the smell as chlorine, iron or mildew. Many noted that the water stains their clothes when they do laundry. Most of the people interviewed indicated that they won't drink their tap water and instead rely on bottled water for consumption and some even for cooking. Respondents reported spending anywhere from $20 to more than $100 a month on bottled water—a significant amount for many low-income families. However, additional door-to-door outreach in a more centralized, newer looking neighborhood, right behind Main Street, resulted in different responses regarding the water service. Everyone with whom we spoke in that neighborhood reported being happy with their water, many indicating they drink it directly from the faucet. The satisfaction with the water situation in Kelseyville was much higher in this area than in the older parts of town.
   - **Seasonal Work Cycles** – Many of the people we spoke to are farmworkers, who expressed difficulties paying for their water bill during certain times due to the fact that agricultural work is very seasonal. Farmworkers' income fluctuates significantly from month to month, depending on weather and crop cycles. Interest was expressed in perhaps developing a payment plan that would mirror these cycles.

- **Notifications** – Many of the Latinos we interviewed are renters and pay for utilities with their rent. Among those individuals, virtually none of them reported having seen any information from the water agency or even knowing who serves their residence with water. An anecdotal incident was reported during which a notice was sent advising residents not to drink the water because it was unsafe. A second notice was sent a short time later informing them that the issue had been addressed but many renters never received that important notice. Omissions such as these could have significant public health implications. Additionally, of those people who did notes receipt of communication from the water department all stated that the information they received was only in English.

Possible Next Steps in Kelseyville: As part of Phase 2's early coordination effort, the team will engage with Kelseyville's Water Purveyor on possible next steps to follow-up on the issues identified during the CBNA. Potential Phase 2 follow-up could involve:

- Develop informational materials on water service and important notices in English and Spanish to be distributed to all residences and customers (if different) in Kelseyville.
- Conduct a point of use water quality testing project to diagnose and verify reports of water quality issues in different parts of town

3. **Small Water System GIS:** The final Phase 1 task completed in Westside was the collation of DAC Small Water System data for the entire IRWM Region and the creation of a GIS database. The table below provides a summary overview of the DAC SWSs found in the Westside Region based on data collected in Phase 1. These data will be used to support the Phase 2 outreach efforts.

Small Water Systems by Type	**Total #**
Community <200 Service Connections + State Smalls	31
Community 200+ Service Connections	10
Non-transient Non-community	2
Transient Non-community	28
Total # of Small Water Systems	71
DAC Population Served	51,205

TMF Needs Assessment Summary Results for the Westside IRWM DAC Places

Community	Summary	Critical Drinking Water Deficiencies	Waste Water Deficiencies	Contractor
Highlands Mutual Part of the Clearlake Group	The Highlands Water Company Treatment Plant Facility is located in the City of Clearlake. The source of water for treatment is surface water derived from Clear Lake. The treatment plant is capable of producing two million five hundred thousand gallons of treated water daily. Servicing Two thousand nine hundred meters in the district	None identified		RCAC
Kelseyville Staged	Kelseyville is a census-designated place in Lake County with a population of 3300. This four-well ground water system provides chlorination before distribution and storage. The Kelseyville system is also intertied with the Finley (CSA #6), and the system will need ongoing replacement of the water lines.	Continual upgrades needed to system as it ages out since parts of the system are over 40 years old		RCAC
Knights Landing Services District	Knights landing is a small community in Yolo County located northwest from Sacramento. The water system is run by the board of directors, with the supervisor conducting the majority of outreach, and their district engineer is from Laugenour and Meikle. The district engineer was not familiar with the local increased cancer risk with the population in Knights Landing. The System has suffered drought related issues and needs additional storage and a booster station to the system. The system also contains old pipes which are cement, some pvc pies are new pipes.	No shut off valves at the houses; Lack of storage tanks; The main lines are asbestos-concrete pipes that are over 50 years old; Failing controls at one of two of the pumping stations.		RCAC
Clearlake City (Clearlake Oaks, Clearlake Riviera) Konocti County Water District	The Clearlake area (Konocti County Water District) is in Lake County and is on Clear Lake and provides water to the Konocti County Water District which serves a portion of the community of Clearlake City and requires conventional surface water treatment methods to meet drinking water standards. The water system has a nine million dollar improvement project in the planning stages to update aging infrastructure and increase treatment capacity.	Sludge drying bed replacement and expansion Backwash sludge compactor distribution tanks. Replacement media	Storm- water turbidity issues near the intake, and high-water sewer overflow pose problems.	RCAC

Community	Summary	Critical Drinking Water Deficiencies	Waste Water Deficiencies	Contractor
Lakeport, City of	Lakeport is an incorporated city and county seat of Lake County, California and has a current population under 5,000. The primary sources are groundwater wells, including two permanent sources and two seasonal sources. The seasonal wells are located in a creek bed and have mandatory use restrictions from CA Water board during the season when the creek is wet due to the lack of annular seal and surface water influence without corresponding treatment. A surface water treatment system is in place as a back-up source of drinking water.	Seasonal well fencing lacking. Distribution looping needed. Increasing main size for fire flow. Replacement of groundwater wells (with 1 new well). Water treatment plant upgrades (increase clear well & replace ozone).	Collection system inflow and infiltration.	RCAC
Lower Lake	Lower Lake Water Works provides treated ground water to 1451 people via 850 connections. The utility has some water quality issues due to the ground water challenges near the lake. There are 9 wells and some require arsenic treatment. The area has a constricted aquifer. Due to seasonal fires and a large seasonal flux of water use they are in need of a permanent intertie with 2 nearby agencies. More source reliability. A preliminary engineering application has already been completed for this work. Water not always aesthetically pleasing. Hard water causes swamp cooler and hot water heater issues, some areas have hydrogen sulfide. Used to have aerators in facilities to remove the hydrogen sulfide but were taken down. Expecting growth in coming years; also a tourist recreation area.	No operator contract; finalize emergency response plan; comprehensive fiscal policy and procedures	None	CRWA
Madison Community Services District	Madison CSD serves approximately 503. This is a groundwater system has 3 active production wells. The main lines are cement and date back to 1967, they also lack proper sand bedding. The system doesn't have any storage tanks. The system is unmetered. One street in the community lacks fire hydrants.	No Storage tanks for an emergency or to meet daily demand; Old and cracking pipes create health hazards; Back flow assemblies are needed for the back-up well; Flooding creates contamination issues for the drinking water.	Upgrade evaporative lagoons.	RCAC

Community	Summary	Critical Drinking Water Deficiencies	Waste Water Deficiencies	Contractor
Middleton Callayomi County Water District	Middletown is in Lake County, with a population of approximately 1,323. The utility is working with FEMA on receiving funds to rebuild post fire, but there is a remainder of funding for FEMA construction of the treatment plant and office which they hope to receive other funding to help repair the system. The current storage supply is also in need of increasing, and they hope to replace the 125,000 gallon storage tank with a new 300,000 gallon tank. The town has inadequate fire hydrants and they hope to replace the warfhead type fire hydrants.	Construction of treatment plant and office covered lost in fire. Replace 125k tank with 300k tank to provide. adequate storage Replace 47 inadequate fire hydrants. Replace aged water meters.		RCAC
Nice Mutual Water Company	Nice is a small census-designated community located in Lake County. Nice Mutual Water System services water by the treatment of surface water, main source being Clear Lake. There are 950 residential connections and 80 commercial. Water quality challenges associated with surface water treatment. These include high labor costs and high treatment costs	Water storage needs; CIP for hydrants; SCADA upgrade; No emergency power; Increased filtration capabilities.		RCAC
Spring Valley Lakes Water, County Service Area #2,	The surface water system serves a population of 995. Distribution lines are old and deteriorated. They need replaced. Spring Valley Lake needs to be restored to be used as backup supply for drinking water and fire suppression in drought years.	Drought is always an issue. Old infrastructure. TTHM exceeds during drought when flushing stops due to lack of water.	Failing septic tanks. Old homes leach septic waste into lake.	RCAC
Upper Lake CDP	Upper Lake CWD serves a population of 1,089 with ground water no treatment is utilized. The district has a 5 member board and two employees.	Distribution system looping		RCAC

Proposed SRFA DACIP Phase 2 Work Plan

PHASE 1 – WORK SUMMARY

The Phase 1 work effort was comprised of 4 key activities:

1. Regional Coordination and DAC Documentation (Funding area coordination, Subcommittee Coordination, RWMG updates, DACI-Coordinator time, Small Water Systems (SWS) GIS Database and DAC status)
2. Regional Engagement and Assessment/Synthesis of Needs (DAC Place Needs Assessments (NA), Community-based NAs, Tribal Coordination, ARB/URC, and summary report)
3. Phase 2 Work Plan Development
4. Grant Admin

The primary outcomes of this Phase have been evaluated extensively by the Technical and Management Team and have been discussed with the various RWMGs. The results of this evaluation are the recommended Phase 2 Activities described below.

PHASE 2 – PROPOSED DRAFT WORK PLAN

Activity 1. Project Management and SRFA-wide IRWM Coordination and DACIP Grant Communications

This Activity will be a carry-over task that continues from Phase 1 and will include all Project/Consultant Management, presentation of updates to the SRFA Subcommittee, and attendance at the six IRWM region's RWMG meetings during Phase 2 (as requested/required). This activity also includes the ongoing support of the DACI-Coordinators for the Activity 2 Technical Assistance, Phase 1 Follow-up and On-going Outreach, described below.

Activity 2. Technical Assistance, Phase 1 Follow-up and On-going Outreach

This activity is the primary focus for the Phase 2 work effort.

The scope for this portion of the work effort is based on the outcomes of the three primary Phase 1 technical activities: the TMF-Needs Assessments, the Small Water Systems GIS, and the Community-based Needs Assessments.

Targeted Project Development (using results from DAC Place Needs Assessments)

The first part of the Phase 2 schedule will focus on RCAC's technical staff working with DAC communities within the SRFA for direct, one-on-one, Project Development and identification of funding opportunities for two high priority objectives:

1. **Fire Recovery:** The catastrophic fires that have plagued the SRFA in recent months have created additional, emergency needs for several DAC communities in our funding area. RCAC will be tasked with reaching out to these communities to see if the technical assistance task under this grant can help support these communities in obtaining funding for key water and wastewater infrastructure recovery.

2. **Direct DAC Project Development**: The outcomes of the DAC Place Needs Assessments that were conducted in Phase 1 will be reviewed by the technical team to determine where opportunities exist for Project Development for Round 1 IRWM Implementation Applications or for other imminent funding opportunities.

Technical Workshops

The primary goal of the Phase 2 Technical Workshops is to provide as many DAC Water Purveyors as possible in each IRWM Region (from DAC Places *and* Small Water Systems) with technical assistance addressing their system's most urgent needs. The SRFA Technical Team will develop workshops and materials for each IRWM Region in Phase 2 in collaboration with the relevant RWMG (if desired) to focus workshop materials for each Region.

This technical focus for each Workshop may include (but is not limited to):

- O&M Plans
- Capital Improvement Plans
- Vulnerability Assessments and Emergency Response Planning
- Emergency response simulation
- Consumer Confidence Reports
- Sampling and sample siting plans
- Developing Technical Support Networks via WARN-type Agreements
- Targeted follow-up with Communities and Water Purveyors based on CNA outcomes
- Additional Needs Assessments (if not already conducted)

The table below represents the current assumptions for the number of workshops in each IRWM in Phase 2 (see SWS Cluster Map). Any system not within a cluster will be invited to attend the nearest cluster's workshops.

Tools Development

Online Tools: The Technical Team will develop a YouTube Channel where videos are uploaded covering key topics of interest. The contents of these videos will target topics planned to be covered in the Workshops, as well as more specialized topics, answers to Frequently Asked Questions and/or common needs.

Technical Support Materials**:** A key need for DAC Water Systems is capacity/experience in maneuvering through the various State and Federal Programs that are available for financial and technical assistance.

To help bridge this gap, the SRFA Technical Team will develop a suite of materials focused on assisting DAC Water Systems through key aspects of these Programs. Possible products to be developed in Phase 2 include:

- Project development manual
- Community outreach tools (for Community-Needs Assessment Follow-up)
- Materials for non-operators (e.g., Board basics: board responsibilities; Clerk/Admin responsibilities; Private well owner and septic owner pamphlets)
- Customer outreach materials and notices in multiple languages

Tribal Committee Activities and Coordination

This Activity will cover the creation of the Tribal Advisory Committee, as well as the activities recommended by the Tribal Advisory Committee for outreach to Tribal Communities and Tribal Water systems. Tribal representatives will be included in the announcements of the Workshops described above, and invited to attend, so that any interested Tribal water system staff or board member will have access to the information provided in these Activity 2 workshops. The intent of this task is to see what additional support, in addition to the above Activities, Tribal members would like to see done to address Tribal Water and Wastewater Needs and improved engagement with IRWM.

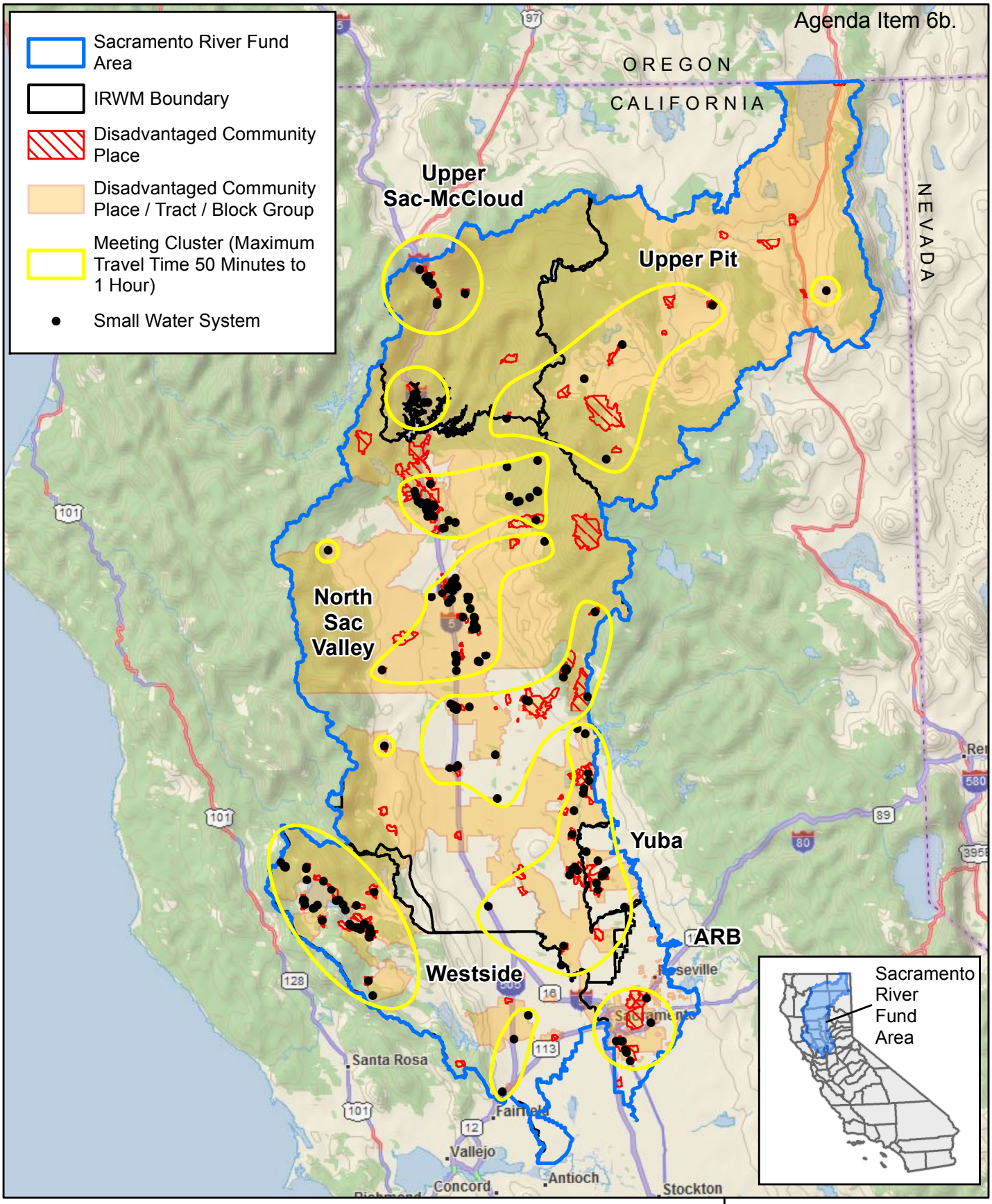
Activity 3: Phase 3 Strategy Development

As in Phase 1, the work plan and budget for year 3 (Phase 3) of this grant will be developed near the end of year 2 (Phase 2) to allow for the coordination, relationship building and learning that will occur during Phase 2 to inform the final year's efforts for the SRFA DACI Program. The budget reflects a similar level of effort as the Phase 2 Work Plan Development Task that was in the Phase 1 Budget.

Activity 4: Grant Administration

Ongoing management and preparation of grant invoicing with associated reporting to DWR. The budget reflects a similar level of effort that was in the Phase 1 Budget for this task.

Cluster #	SRFA IRWM(s)	Minimum Phase 2 Workshops	Comments
1	ARB	1	ARB is largely served by large, well-staffed, water purveyors who are not in need of the technical assistance these workshops would provide. The Workshop developed for ARB instead could focus on Private well owner/septic owner workshops for those not on city water/sewer. This type of Workshop, if successful, could be a Phase 3 task that is also conducted in the other IRWM Regions.
2	Yuba/NSV/ Westside/ ARB	2	The Yuba does have several DAC Places and Small Water Systems that would benefit from a local, targeted Workshop. The area around the Yuba includes several other DAC Places and SWS within the NSV, Westside and ARB that could attend one workshop to reduce travel in this southeast corner of the SRFA. Two workshops will be planned for this population of systems
3	Westside/ Clearlake Area	2	The Clearlake area of the Westside, which lies in Lake County, includes most of the DAC Places and SWS in this IRWM. This area is known for the very high level of need for water and wastewater treatment and should be targeted for specific workshops to provide technical support. At least two workshops will be planned for this population of systems
4-6	NSV	6	NSV is a very large IRWM that includes the most DAC Places and DAC SWS in the Funding Area. Three additional clusters moving from the south (just above the Yuba cluster) to the northern part of this IRWM will be developed to target the needs in this region while reducing travel for these DAC systems. Two workshops per cluster will be planned for this population of systems
7	UPR	1-2	The Upper Pit (UPR) is a very rural and remote IRWM that is entirely DAC. This area however, does not have a high number of DAC Places and SWS due to the very low population density. Therefore, this population of DAC systems will be targeted for at least one workshop to provide technical support for this small population of systems, and a second may be planned if needed or wanted in the region.
8-9	USR	2-4	The Upper Sacramento (USR) is a very rural and remote IRWM that is entirely DAC. This area does not have a high number of DAC Places and SWS due to the very low population density; however, the region does have two distinct and geographically separated clusters of DAC systems. Therefore, this population of DAC systems will be targeted for at least one workshop in each cluster of these small clusters. A second workshop in each may be planned if needed or wanted in the region.



Source: California Department of Water Resources GIS (2018); DeLorme World Map 2016

GANDA

* Prepared by the Yuba County IRWM Region, in support of the SRFA DACI Proposal

Figure 1. Sacramento River Funding Area Small Water Systems Meeting Clusters

June 2018

Sacramento River Funding Area DACIP
Phase 2 Work Plan Proposal

PHASE 1 – WORK SUMMARY

The Phase 1 work effort was comprised of 4 key activities:

1. Regional Coordination and DAC Documentation (Funding area coordination, Subcommittee Coordination, RWMG updates, DACI-Coordinator time, Small Water Systems (SWS) GIS Database and DAC status)
2. Regional Engagement and Assessment/Synthesis of Needs (DAC Place Needs Assessments (NA), Community-based NAs, Tribal Coordination, ARB/URC, and summary report)
3. Phase 2 Work Plan Development
4. Grant Admin

The primary outcomes of this Phase have been evaluated extensively by the Technical and Management Team and have been discussed with the various RWMGs. The results of this evaluation are the recommended Phase 2 Activities described below.

PHASE 2 – PROPOSED DRAFT WORK PLAN

Activity 1. Project Management and SRFA-wide IRWM Coordination and DACIP Grant Communications

This Activity will be a carry-over task that continues from Phase 1 and will include all Project/Consultant Management, presentation of updates to the SRFA Subcommittee, and attendance at the six IRWM region's RWMG meetings during Phase 2 (as requested/required). This activity also includes the ongoing support of the DACI-Coordinators for the Activity 2 Technical Assistance, Phase 1 Follow-up and On-going Outreach, described below.

Activity 2. Technical Assistance, Phase 1 Follow-up and On-going Outreach

This activity is the primary focus for the Phase 2 work effort.

The scope for this portion of the work effort is based on the outcomes of the three primary Phase 1 technical activities: the TMF-Needs Assessments, the Small Water Systems GIS, and the Community-based Needs Assessments.

Technical Workshops

The primary goal of the Phase 2 Technical Workshops is to provide as many DAC Water Purveyors as possible in each IRWM Region (from DAC Places, as well as Small Water Systems) with direct technical assistance addressing their system's most urgent needs. The SRFA Technical Team will develop workshops and materials for each IRWM Region in Phase 2 in collaboration with the relevant RWMG if desired.

This technical assistance may include (but is not limited to):

- Targeted Project development (using results from Needs Assessments)
- O&M plans
- Capital Improvement Plans

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- Consumer Confidence Reports
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- Developing Technical Support Networks via WARN-type Agreements
- Targeted follow-up with Communities and Water Purveyors based on CNA outcomes
- Additional Needs Assessments (if not already conducted)

The table below represents the current assumptions for the number of workshops in each IRWM in Phase 2 (also see Cluster Map). Any system not within a cluster will be invited to attend the nearest cluster's workshops.

Tools Development

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To help bridge this gap, the SRFA Technical Team will develop a suite of materials focused on assisting DAC Water Systems through key aspects of these Programs. Possible products to be developed in Phase 2 include:

- Project development manual
- Community outreach tools (for Community-Needs Assessment Follow-up)
- Materials for non-operators (e.g., Board basics: board responsibilities; Clerk/Admin responsibilities; Private well owner and septic owner pamphlets)

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This Activity will cover the creation of the Tribal Advisory Committee, as well as the activities recommended by the Tribal Advisory Committee for outreach to Tribal Communities and Tribal Water systems. Tribal representatives will be included in the announcements of the Workshops described above, and invited to attend, so that any interested Tribal water system staff or board member will have access to the information provided in these Activity 2 workshops. The intent of this task is to see what additional support, in addition to the above Activities, Tribal members would like to see done to address Tribal Water and Wastewater Needs and improved engagement with IRWM.

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MEMO

MCCORD ENVIRONMENTAL

To:	Chris Lee, Solano County Water Agency
Cc:	Westside Sacramento Integrated Regional Water Management Coordinating Committee
Date:	September 7, 2018
Subject:	Brownfields project – Work Plan revisions

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The ongoing brownfields assessment project's objectives are to inventory, assess, conduct planning (both planning site cleanup actions and supporting regional planning), and engage the community regarding mine-impacted lands within the five counties of the Cache Creek and Putah Creek watersheds.

The primary challenge has been in finding/contacting landowners and convincing them to allow the project team to access the abandoned mine site(s) on their land and conduct a publicly available environmental site assessment (ESA). By broadening the applicable site criteria to include non-mine sites and sites outside of the target watersheds (yet still within the participating counties) we have found additional sites.

Attached is a revised project work plan. These minor revisions in the scope, schedule and budget shift some efforts among project team members and tasks. As the project manager, I would like the Coordinating Committee to approve the following minor changes to the project scope and budget shifts among tasks. **The total budget is not changed. The revised schedule extends the project to the end of federal fiscal year 2019, as recommended by the USEPA grant manager.**

The USEPA grant manager requested a workplan revision. Attached to this memo is the workplan with track changes for Coordinating Committee approval.

Task	Original Budget	Budget Revision	Scope & Budge Revisions
Task 1 – Public Outreach and Engagement	$120,176	$115,853	Shifted some of original budget estimate for CBO engagement
Task 2 – Site Identification / Selection	$54,090	$47,965	Task is largely completed, although sites continue to be identified and pursued
Task 3 – Environmental Site Assessments	$136,680	$146,828	Continue to assess additional eligible sites for Phase I and II ESAs; per-site costs increased due to site complexities
Task 4 – Cleanup/Reuse Planning	$61,304	$42,344	Streamlined by combining some effort in Task 3; likely to provide 2 Cleanup Plans and more
Task 5 – Area-wide Brownfields Planning	$43,610	$59,930	Increase budget to engage more local community members, municipal staff, and county supervisors
Task 6 – Program Management/ Reporting	$27,990	$35,890	Increased to 8% of overall budget
Task 7 – Institutional Controls	$16,150	$11,190	Task is largely completed, but continue to track local controls

U.S. ENVIRONMENTAL PROTECTION AGENCY BROWNFIELDS ASSESSMENT PROGRAM

WORK PLAN

Cooperative Agreement #: 99T30301

FOR

ABANDONED MINE SITES in the CACHE and PUTAH CREEK WATERSHEDS
in the COUNTIES of LAKE, NAPA, SOLANO, and YOLO

September 12, 2018~~March 31, 2016~~

For
Eric Byous
Brownfield Program, Superfund Division
(415) 972-3531 byous.eric@epa.gov

Submitted by
Solano County Water Agency
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Westside Brownfields Coalition Assessment Project Work Plan

A. Recipient Title

Solano County Water Agency

B. Background

This proposal is distinct from typical brownfields in that the targeted s~~i~~ites are predominantly abandoned mine sites in rural areas. This project provides a unique opportunity to address our region's mining legacy of contamination holistically, consistently, and collectively. Mercury is our state's leading cause of water quality impairment, and abandoned mine sites in our two watersheds were—and continue to be—major sources of that contamination. Within the 1,500-square mile planning area, there are approximately 100 abandoned mine features. Mercury monitoring in sediments, water, and fish downstream of these features has led to the listing of five reservoirs and many miles of streams as mercury-impaired.

The mining legacy is often associated with the Gold Rush in the late 1800's, but mining also occurred sporadically to supply munitions for the world wars, and industrial products (thermometers, hearing aids, fluorescent light bulbs) into the early 1970's. The upper watersheds were exploited by miners during each era with no regard to environmental protection. Now, several of the rural communities are economically disadvantaged and separated from the economic development experienced in the valleys below. The target community has over 10% unemployment and nearly 40% of people live below poverty levels. This project will connect these communities to downstream water users and to significant regional development plans.

C. Goals and Objectives

EPA Strategic Plan

This project supports EPA's Strategic Plan and GPRA Goal 3: Cleaning Up Communities and Advancing Sustainable Development, Objective 3.1 Promote Sustainable and Livable Communities.

Outputs: *Provide work plan deliverables, such as Sampling Plans, Phase I and Phase II reports, property profile forms, community outreach materials, etc.*

Outcomes: *Provide the anticipated number of assessments, inventories, and if known, the number of acres that will be ready for reuse, dollars leveraged, and number of jobs created.*

Project Goals

This project proposes to complete seven major tasks, which will involve rural community members through targeted outreach as we inventory all mine-scarred brownfields in the Cache and Putah Creek watersheds, conduct six Phase I and two Phase II Environmental Site Assessments, prepare two Site Cleanup Plans, and address institutional controls. The project primarily supports the counties of Lake, Solano, Napa, and Yolo. Nonetheless, projects within the Cache Creek watershed in Colusa County and projects in the other counties but not in the Cache-Putah creeks watersheds will also be considered for assessment, if prioritized.

D. Tasks

Chris Lee, Principal Water Resources Specialist at SCWA, is the Project Director referenced in the tasks below. Each Coalition member assigns primary and alternate representatives to participate. SCWA will follow EPA procurement rules in soliciting proposals and selecting a consultant team with knowledge, training, qualifications and experience for the following roles:

- Project Manager—Manage subcontracts; direct and track all project team activities; interface with the Project Director and the Westside CC; coordinate internal reviews and submission of deliverables; communicate with stakeholders; support grant reporting by Solano County Water Agency.
- Facilitator—Lead Task 1 outreach activities to engage stakeholder; maintain the project's email distribution list; provide content for the project web page.
- Land Use Planner—Lead efforts to compile, manipulate and analyze regional geospatial and non-physical data under Tasks 2 and 5. This role fulfils the work plan's role of Spatial Analyst, as well as additional planning and project land use assessment responsibilities.
- Site Assessor / Cleanup Planner—Support the identification and prioritization of brownfields under Task 2; follow EPA Brownfields Program protocols in leading the assessment (Task 3) and cleanup planning (Task 4) of prioritized sites; support regional planning under Task 5.

Consultant team will be selected 3-6 months after the contract between SCWA and EPA is signed.

Task 1 – Public Outreach and Engagement

Task Description

The Coalition will identify, inform and engage potential stakeholders through several venues, as shown in Table 1 along with relevant output. Early actions will focus on educating the targeted community about the project's goals, process, and information needs; subsequent meetings on intersecting land uses; and later meetings on explaining ESA results and cleanup plans. Actions and outputs will be assigned and tracked online and in quarterly Coalition meetings. The Facilitator will conduct general outreach to identified stakeholders. Each Coalition member will be responsible for updating their jurisdiction on relevant program information obtained during the quarterly meetings and for soliciting input on potential brownfields.

The Coalition will address both urban and open space redevelopment uses of brownfields (community gardens, solar/wind farms, bike trails) and the stakeholders that take interest in those issues. Stakeholders include community organizations, industries (energy purveyors, mining companies), and municipal staff (planning, parks, open space, recreation, and economic development).

Table 1. Public Outreach Actions to Conduct for Coalition Assessment Grant

Outreach Action	Metrics / Outputs / Outcomes
Contact individuals	Identify 10 individual contacts per County
Contact community organizations (COs)	Identify 10 CO contacts
Produce project flyer	Print and distribute 100 project flyers to stakeholders during the project term

Outreach Action	Metrics / Outputs / Outcomes
Lead community engagement meetings	Facilitate (prepare for, lead, summarize) quarterly Coalition meetings; provide remote access option; distribute via email list agendas prior to and summaries following each meeting; solicit project submittals
Create and maintain project web page	Upload project web page within 6 months of startup; provide links to web page in newsletter articles, project flyer, listserv emails, and Coalition member meetings; include contact information for Project Director
Maintain email distribution list	Active email distribution list maintained as needed
Contribute news articles	Provide project updates twice annually, distribute to over 725 recipients
Compile land use/ redevelopment plans	Land use/ redevelopment plans uploaded or referenced on project web site, portrayed in map overlays, and referenced in Area-wide Brownfields Plan (Task 5)
Promote financing & implementation for cleanup & redevelopment	Public input on Area-wide Brownfields Plan (Task 5) financing & implementation strategy
Participate in regional forums to exchange information	Provide project updates to Delta Tributaries Mercury Council (quarterly regional stakeholder forum) and statewide mercury control program; ~~four Coalition members~~ project representatives attend ~~two~~ Brownfields conferences ~~each~~

Task Budget

Cost Assumptions: ~~$24 for outreach supplies; C~~consultant team: $115,853~~120,176, including $12,000 for COs honoraria (to be paid through consultant team contract)~~

Cost: Brownfields Grant $ ~~120,200~~115,853

Schedule

Task Start Date: 0-3 months after Consultant team is selected. Task Completion Date: ~~20-34~~40 months after starting task.

Deliverables

- Summaries of outreach to elected officials, environmental authorities, and government land managers about mine site cleanup opportunities and priorities
- Creation/maintenance of project web page
- Active stakeholders email distribution list
- Public Coalition meetings

Task 2 – Site Identification / Selection

Task Description

The Consultant team will compile existing brownfield site information and review land use plans and

general plans to determine where the most contaminated sites intersect with current land use/planning priorities. The Consultant team will consult with Coalition members, as well as the stakeholders engaged under Task 1, to develop quantifiable criteria to prioritize sites ~~(see section 2.a.iii above)~~ for ESAs under Task 3. The Land Use Planner will attribute criteria values to each prospective site, and apply the criteria to rank sites for ESAs. Coalition members will present the sites to their respective county/town boards to gather public input on prioritized and new sites to evaluate site eligibility. The Project Manager will populate and maintain the Sites List. ~~Coalition members in each county~~The Consultant team will contact landowners to request site access consistent with the state's Gatto Act, which grants cities, counties and housing authorities the right to obtain environmental information from brownfield property owners, the authority to compel cleanup, the right to recover the full costs of cleanup, and immunities for any release or releases addressed in an approved cleanup plan.

Task Budget

Cost Assumptions: Travel: $7,354; Consultant team: $47,965~~54,090~~

Cost: Brownfields Grant $ ~~61,444~~55,319

Schedule

Task Start Date: 0-3 months after Consultant team is selected. Task Completion Date: ~~10-13~~6 months after start of task.

Deliverables

- Site inventories
- Develop and apply Environmental Site Assessment (ESA) prioritization criteria
- Sites prioritization scheme memo
- Priority Sites List updated annually
- Obtain access authorization for selected sites

Task 3 – Environmental Site Assessments

Task Description

The Coalition will assess prioritized sites to determine the nature and extent of contamination and to evaluate its public health and environmental risks. The Site Assessor / Cleanup Planner will prepare and submit site eligibility forms for sites identified and prioritized under Task 1 with landowner authorization, for ~~review and subsequent~~ submittal to the EPA Project Officer for review and determination. The Site Assessor / Cleanup Planner will conduct at least six Phase I and two Phase II ESAs for sites determined eligible by EPA. If selected sites for ESAs are deemed ineligible (most likely due to inaccessibility), new site eligibility forms will be prepared additional sites on the prioritized list and contingent upon landowner authorization and remaining budget. Prior to beginning work on any Phase II ESAs, the Site Assessor / Cleanup Planner will prepare Sampling and Analysis Plans, Quality Assurance Project Plans, and/or Health and Safety Plans (as applicable) for the Project Director to review and submit to EPA for review and approval.

Task Budget

Cost Assumptions: Site eligibility forms: $19,680; Phase I ESAs = ~~6~~ 5 x $~~7~~10,000 = $~~42~~50,000; Phase

II ESAs = ~~2~~ 3 x $~~37,500~~25716 = $7~~5,000~~7,148

Cost: Brownfields Grant $ ~~136,680~~146,828

Schedule

Task Start Date:0-3 months after Consultant team is selected. Task Completion Date: ~~16-24~~36 months after start of task.

Deliverables

- 16 site eligibility forms
- 6 Phase I ESAs
- 2 Phase II ESAs

Task 4 – Cleanup/Reuse Planning

Task Description

The Site Assessor / Cleanup Planner will develop two Site Cleanup Plan~~s~~, addressing input received from Coalition members, property owners, and other stakeholders. Each plan will include an Analysis of Brownfields Cleanup Alternatives (ABCA) and address concerns related to climate change.

Task Budget

Cost Assumptions: ~~Site Cleanup Plans = $20,000/plan x 2 plans = $40,000; c~~Consultant team ~~related planning~~: $~~21,304~~ 42,344

Cost: Brownfields Grant $ ~~61,304~~ 42,344

Schedule

Task Start Date: ~~0-~~36 months after Consultant team is selected. Task Completion Date: ~~16-24~~34 months after start of task.

Deliverables

- Two Site Cleanup Plans and ABCAs

Task 5 – Area-wide Brownfields Planning

Task Description

The Coalition, supported by stakeholders engaged under Task 1, will leverage regional reuse and development plans to set cleanup goals and strategies beyond the scope and term of this project. The Land Use Planner will produce an Area-wide Brownfields Plan that will describe the area's history with brownfields; identify key land use policies, planning initiatives, pertinent developments, and potential market considerations; list all sites identified and assessed under the Brownfields Program and proposed redevelopment opportunities; and recommend funding and implementation activities.

Task Budget

Cost Assumptions: Consultant team: $59,930~~$43,610~~

Cost: Brownfields Grant $59,930~~$ 43,610~~

Schedule

Task Start Date: 0-3 months after Consultant team is selected. Task Completion Date: ~~5-1~~40 months after start of task.

Deliverables:

- Map-based catalog of relevant regional plans and known brownfields
- Area-wide Brownfields Plan

Task 6 – Program Management/ Reporting

Task Description

The Project Director will develop specifications, advertise, select and contract with qualified contractors. The Project Director, supported by the Project Manager, will also schedule meetings with EPA staff to review progress, track progress of all tasks, review all outputs, and confirm budget status. The Administrative Services Manager, supported by the Project Manager, will prepare and submit annual financial status reports, and Minority-Owned Business Enterprise (MBE) / Woman-Owned Business Enterprise (WBE) utilization updates. The Project Manager will submit quarterly progress reports and a final program report in compliance with EPA program requirements and the cooperative agreement; and update the ACRES online database to track project progress.

Quarterly Reports:

- Summary of Successes/Challenges over the past quarter
- Assistance Needed from EPA Project Officer
- Assessment Tracking Table
- Narrative Update by Task that follows the task descriptions in the approved work plan
- Budget Summary Report of expenses invoiced during the reporting period and cumulatively
- Site Assessment Inventory Tracking Sheet

Final Report:

- Overall Project Goals: Provide a summary of the project's overall redevelopment and brownfields goals.
- Successes: A short narrative (1-2 paragraphs) summary description of the project successes (es), such as sites that are ready for reuse or have moved to redevelopment, or planning or policy documents completed under the grant. For site specific successes, information will be provided on the former use of the site, number of acres, future reuse of the site, and why the site is a priority or catalyst site. Site photos or schematic images of future reuse plans will be included.
- Lessons Learned/Best Practices: Lessons learned and best practices/materials transferable to other communities will be identified; opportunities for sharing information, including how the Solano County Water Agency and EPA, and others can share that information across multiple media types (meetings, conferences, changes to local policy, social media, etc.)

- Partnering/Leveraging: Significant partnering with other organizations and/or leveraging of resources, as well as any resources leveraged to continue the project after the expiration of the brownfields grant will be identified.
- Work Plan Accomplishments: A summary of accomplishments for each of the grant Work Plan tasks and/or and tasks that were not completed and why will be identified.
- EPA Acknowledgment: Information on how EPA has been acknowledged as a funding partner will be identified.
- ACRES/Site Assessment Spreadsheet: A final site assessment spreadsheet (following EPA template) will be included. All site entries will be up to date in ACRES.
- Budget: A budget table that compares total budgeted amounts and total amounts spent and any funds that will be returned to EPA will be included.

Task Budget

Cost Assumptions: Consultant team: $35,890~~$27,990~~

Cost: Brownfields Grant $35,890~~$ 27,990~~

Schedule

Task Start Date: 0-3 months after Consultant team is selected. Task Completion Date: Task will continue until completion of project.

Deliverables

- RFP or other contractor selection documents
- Revised Work Plan
- 12 quarterly progress reports
- 3 annual MBE/WBE utilization updates
- 3 annual SF425 federal financial status reports
- 1 final program report

Task 7 – Institutional Controls

Task Description

The Coalition will evaluate each participating county's existing institutional controls that address brownfields, leading to three activities. First, ESAs (Task 3) will be incorporated into existing databases of mine-scarred and other contaminated sites. Second, existing controls will be referenced and addressed in Site Cleanup Plans (Task 4). And third, additional controls will be considered under Task 5: (1) evaluating construction projects for brownfield status and ESA records; (2) requiring a Phase I ESA for tax-foreclosed properties with observed environmental impairment prior to public auction, for which the cost would be recovered in the auction price; and (3) updating county-wide hazardous sites maps used by local permitting agencies.

Task Budget

Cost Assumptions: Consultant team: $~~16,150~~11,190

Cost: Brownfields Grant $ 11,190~~16,150~~

Schedule

Task Start Date: 0-3 months after Consultant team is selected. Task Completion Date: ~~20-34~~36 months after start of task.

Deliverables

- Report on existing institutional controls for brownfields
- Up to one new institutional control per county will be developed
- Report on impacts of implemented institutional controls

E. Schedule of Milestones & Deliverables

The project end date is 10/31/2019.

Fiscal Year [1]	Quarter [1]	Quarterly Report Due	Milestones and Deliverables Due with Quarterly Report
2016	1st	Jan 30	• Task 6: Procure Project Manager
2016	2nd	Apr 30	• Task 6: RFP or other contractor selection documents • Task 6: Revised Work Plan
2016	3rd	Jul 30	• Task 1: Create project web page • Task 2: Sites inventory • Task 2: Sites prioritization scheme memo
2016	4th	Oct 30	• Task 5: Assemble Coalition members' planning/land use information, mine site inventories, and mercury contamination information
2017	1st	Jan 30	• Task 1: Active stakeholders email distribution list • Task 2: Develop and apply Environmental Site Assessment (ESA) prioritization criteria • Task 3: 16 site eligibility forms • Task 2: Obtain access authorization for selected sites
2017	2nd	Apr 30	• Task 7: Report on existing institutional controls for brownfields • Task 3: ~~6~~ 3 Phase I ESAs
2018~~7~~	3rd	Jul 30	• Task 3: 1~~2~~ Phase II ESA~~s~~
2018~~7~~	4th	Oct 30	• Task 4: ~~2~~ 1 Site Cleanup Plan~~s~~ and ABCA~~s~~
2018	1st	Jan 30	
2018	2nd	Apr 30	• Task 4: 1 Site Cleanup Plan and ABCA • Task 5: Map-based catalog of relevant regional plans and known brownfields
2018	~~3rd~~4th	~~Jul~~ Oct 30	• Task 3: 3 Phase I ESAs • Task 3: 1 Phase II ESA • ~~Task 5: Area-wide Brownfields Plan~~ • ~~Task 7: Up to one new institutional control per county~~
2019	2nd	Apr 30	• Task 5: Area-wide Brownfields Plan • Task 7: Up to one new institutional control per county
2019~~8~~	~~4th~~3nd	~~Oct~~ Jul 30	• Task 7: Report on impacts of implemented institutional controls • Task 6: 1 Final program report
Ongoing – Quarterly	--	--	• Task 1: Host public Coalition meetings • Task 1: Summary of outreach to elected officials, environmental

Fiscal Year [1]	Quarter [1]	Quarterly Report Due	Milestones and Deliverables Due with Quarterly Report
			authorities, and government land managers about mine site cleanup opportunities and priorities • Task 1: Update/maintain project webpage • Task 6: 12 progress reports
Ongoing – Annually	--	--	• Task 2: Priority Sites List updated annually • Task 6: 3 annual MBE/WBE utilization updates • Task 6: 3 annual SF425 federal financial status reports

[1] The federal fiscal year begins October 1.

F. Budget Summary

Budget Categories	Project Tasks							
	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Total
Personnel	$0	$0	$0	$0	$0	$0	$0	$0
Fringe Benefits	$0	$0	$0	$0	$0	$0	$0	$0
Travel	$0	$7,354	$0	$0	$0	$0	$0	$7,354
Supplies	$24	$0	$0	$0	$0	$0	$0	$24
Contractual	$115,853~~$120,176~~	$47,965~~$54,090~~	$146,828~~$136,680~~	$42,344~~$61,304~~	$59,930~~$43,610~~	$35,890~~$27,990~~	$11,190~~$16,150~~	$460,000
Total	$115,853~~$120,200~~	$55,319~~$61,444~~	$146,828~~$136,680~~	$42,344~~$61,304~~	$59,930~~$43,610~~	$35,890~~$27,990~~	$11,190~~$16,150~~	$467,378

G. Greening Grants

EPA has a *Greening Grants Policy*, which encourages grantees to incorporate green practices into their projects. The Solano County Water Agency does the following green practices already and will incorporate them into the tasks performed for this grant:

- Environmentally preferable purchasing (e.g., office supplies)
- Recycling (e.g., in SCWA office)
- Green meetings (e.g., for any community meetings)

Table 8-4: High-Importance/High-Urgency Projects

Project No.	Lead Agency/ Organization	Project Title	Planned Project/Program Types and Activities	Primary Objective	Project Type	Importance	Urgency
23	Solano County Water Agency	Aquatic Nuisance Vegetation Management	The goal of the Aquatic Nuisance Species Management Plan is to minimize the harmful ecological, economic, and social impact of aquatic nuisance species through prevention and management of introduction, population growth, and dispersal into, within, and from Solano County.	7	Implementable Program	High	High
32	Solano County Water Agency	Solano Invasive Species Program	Program will prevent colonization of any regional water body by quagga or zebra mussels and eliminate or prevent the spread of New Zealand mud snails from Putah Creek.	7	Implementable Program	High	High
34	Solano County Water Agency	Research on Improving Water Treatment for Delta Sources	The project would build upon past research done at the NBA Treatment Facility, and by other Delta users, to improve water treatment methods, reduce disinfection byproducts, and improve water treatment for Delta water users, including the State Water and Central Valley Projects.	22	Implementable Project	High	High
40	RWMG with Selected Lead Agency	Regional Invasive Plants, Aquatic and Terrestrial Weeds Management Plan	Formation of an invasive species task force/subcommittee to prepare a regional invasive plants, aquatic and terrestrial weeds management/eradication plan that documents the extent of invasive species that could be leveraged, and identify supplemental programs to be developed to fill gaps in existing programs to manage invasive species.	8	Implementable Program	High	High
48	Crescent Bay Improvement Company	Crescent Bay Improvement Company	Crescent Bay Improvement Company has been on a Boil Water Order since 1999. There are three objectives to this project: 1) replace the 80-year old distribution lines, which are leaking, 2) drill a well and replace surface water source with ground water, and 3) explore the feasibility of purchase of a neighboring water company and develop an intertie with that system.	22	Implementable Project	High	High
54	City of Davis	Wastewater Treatment Plant Secondary and Tertiary Improvements	To meet new surface water discharge limitations at Willow Slough, the City of Davis must cease its surface water discharge to Willow Slough, all or in part, through upgrades to its existing treatment process to provide for tertiary treatment.	22	Implementable Project	High	High
55	Clearlake Oaks County Water District	Plant Intake	Install a new water intake in the lake that is capable of drawing water from different depths, with installation of an Amiad pre-filter at the pier where the intakes are located. This will allow greater control of influent turbidity and pH by controlling what depth the intake will be drawing water from.	22	Planning	High	High
76	RWMG with Selected Lead Agency	Regional Invasive Mussels Management Plan	Formation of an invasive species task force/subcommittee to prepare a regional invasive mussels species prevention plan and identify supplemental programs to be developed to fill gaps in existing programs to prevent invasive species infestation.	7	Implementable Program	High	High
87	Lake Berryessa Resort Improvement District	LBRID Wastewater Storage Pond and Disposal Improvements	This project will upgrade the wastewater storage ponds and disposal spray fields.	22	Implementable Project	High	High
90	Napa Berryessa Resort Improvement District	NBRID Water Treatment Plant Replacement	The existing water treatment plant will be replaced with a new, more technically advanced water treatment plant.	22	Implementable Project	High	High
92	Napa Berryessa Resort Improvement District	NBRID Wastewater Treatment Plant Replacement (WWTP)	This project will upgrade the existing WWTP. The project will also repair or replace all the existing sewer lift stations.	22	Implementable Project	High	High
93	Rural Community Assistance Corporation	Rural Disadvantaged Community (DAC) Partnership Project	RCAC will manage the Prop. 84 grant funds to address inadequate water supply and water quality in rural disadvantaged communities (DACs) in the Westside Sacramento IRWM Region.	22	Planning	High	High
95	Reclamation District (RD) 2035	Sacramento River Joint Intake Project	The project consists of a 400-cubic-feet-per-second (cfs) intake and integrally constructed pump station, new discharge pipeline and appurtenant structures, and demolition of the existing facilities.	23	Implementable Project	High	High
110	Woodland-Davis Clean Water Agency (WDCWA)	Davis-Woodland Water Supply Project	The project comprises four regional facility components: (1) a joint RD 2035/WDCWA Sacramento River Intake facility (up to 80-cfs capacity for the WDCWA); (2) 4.5-mile raw water pipeline(s) to convey untreated surface water to a water treatment facility; (3) a regional water treatment facility to treat the surface water before delivery; and (4) 10 miles of treated water pipelines to deliver treated water to local water systems.	22	Implementable Project	High	High
158	Lake County Watershed Protection District	Quagga Boat Display	The project consists of displaying a boat infested with quagga mussel for the purposes of educating the public on the harm invasive mussels can do to aquatic ecosystems and how to prevent their spread. The quagga boat shall be used on a regional basis to bring awareness about invasive mussels to the residents and visitors to the region by visual example. The boat will be available to the Westside IRWM members for display, and will be displayed at events such as boat shows, County fairs, the State Fair, major fishing tournaments, etc.	7	Implementable Project	High	High

Westside Sacramento IRWM Coordinating Committee

Meeting date: 9/12/18
Agenda item:
Subject: Update on Roundtable of Regions Activities

1. Liz Mansfield and other partners in the Mountain Counties Funding Area are working with DWR and the IRWM **Roundtable of Regions to conduct a (1 ½ day) summit.**
    - Liz has asked the Roundtable to establish a subcommittee to assist in developing this summit. Please let Tracy Hemmett, Liz Mansfield and I (Lynn Rodriguez) know as soon as possible if you are interested in serving on this subcommittee.
    - Subcommittee will work with DWR and reps of Mountain Counties IRWM regions, to set the agenda topics and identify speakers.
    - Summit will be held in late October (date TBD) at North Lake Tahoe
    - Topics:
        - DAC Involvement Program funded through the Prop. 1 IRWM grant program.
        - Lessons learned.
    - Attendees:
        - The 12 Hydrologic Regions in the State
    - Panel discussion topics (possible):
        - Outreach strategies, success stories and hurdles
        - Water and Wastewater Assessment, strategies, templates, outcomes
        - DWR PSP and/or workshop agendas, purpose
        - Community identification, capacity and needs assessments
        - Tribal outreach, engagement in IRWMs
        - Technical assistance projects/programs/Toolbox
        - Mapping and other technical assistance
        - Application strategies/DAC Projects

2. **Future of IRWM through Roundtable of Regions**
    - Scope of Work for new RoR Coordinator/Consultant mostly complete
    - Get funding (through Regions?) to support the Coordinator.
    - Summit between RoR representatives and Kris Tjernell, Deputy Director – IRWM, State DWR, this fall
3. Clarifying what the Roundtable of Regions IS
    - Per Mike Antos (Ph.D. Sr. Watershed Mgr. Santa Ana Watershed Project Authority), "I remain committed to sharing my sense for how the Roundtable is a **Network**, and how important it is to not start treating it like an Organization.
        - I think we need a coordinator who does the coordination part of the Lynn and Tracy show, following the path picked by the consensus of voices.
        - We don't want to pay for the leadership; if we start paying for that we remove the incentive for those of us in the Roundtable to step up. The moment we have a paid leader we have an organization, where the leader is looking for our advice on how to execute the organizational mission.
        - Roundtable makes us each better at what we are already tasked with doing, so, it strengthens how our home organizations achieve THEIR missions, and, those missions are all unique based on local conditions."
    - Per Matt Frary (Sr. Civil Engineer, LA County Public Works), "I think the SOW, the video letter, and anything stemming from the RoR should clearly and succinctly state the purpose of the RoR; it still seems appropriate for a network such as RoR to identify around its primary shared missions. In our case, **I think RoR exists to facilitate and pursue the success of IRWM (both regionally and State-wide) through a two-pronged approach**:
        1) Promoting the IRWM philosophy
            a. "When IRWM succeeds, California succeeds." (p1, Stakeholder Perspectives)
            b. Alignment/influence with State Water Plan Updates

c. Build bigger nexus/partnerships where appropriate (ACWA IRWM subcommittee, etc
d. Advocacy, starting with efforts inside each participating agency so that Executives have shared vision
e. Education (joint video with DWR), raising profile, etc

2) Pursuing resources/practices to equip sustainable IRWM efforts
   a. Sustainable funding of IRWMP-approved projects, even (especially) beyond State grant funds
   b. Standardization/best practices (while acknowledging region-specific issues), including recommendations to address messaging, training, advocacy, governance ideas, addressing challenges, etc…
   c. Promoting broader adherence to California Water Code Section 10544 ("for water management activities, the [State entity] shall include in any set of criteria used to select projects and programs for funding, a *criterion that provides a preference for regional projects or programs*").

The network of practitioners that meet would continue to share ideas and team up to help each other out, but I think consistently using (and speaking with) this framework could help everyone out regionally, collectively, and programmatically.

Explanatory Notes on Funding Allocation Scenarios for Sacramento River Funding Area DWR Prop 1 IRWM Implementation Funding

A few clarifications on the Allocation discussion:

- the SRFA Funding Area was allocated $37 million from Prop 1 for IRWM. $3.7 million of this was set aside for the DAC-Involvement Program (10% of total) that Katie and I are managing. **This money is not for projects**, but rather needs assessments, outreach and technical support to help IRWMs to be able to identify key DAC water and wastewater needs in their implementation funding discussions as well as to get DAC Projects ready for implementation applications.

- An additional 10% of the $37 million also was set aside for planning, of which the SRFA used $314,222.00 which leaves $3.4 million for planning projects in rounds 1 and 2 combined.

- Minus some money for DWR's administration the total implementation funding available for BOTH rounds =$26.7 million (which includes another 10% for DAC Benefit Projects for both rounds=$3.7 million)

    - DWR has indicated that they want the funding areas to only use 50% of this available funding in round 1 (for the SRFA that's $13.35 million), to leave adequate money in round 2 (they also want funding areas to save DAC benefit projects to round 2, to allow time for the DACIP work to near completion)—
    - **HOWEVER, this funding area can propose changes to this guidance from DWR**. We could elect to use 100% of both rounds for DAC benefit projects; we could allocate money to each IRWM so they can strategize and plan what projects to go for in which rounds (planning only in round 1 an implementation in round 2, for example---OR, only shovel ready no planning, OR only DAC, OR something else.).
    - The allocation table I created (**Scenarios described below used the implementation funding only, so the $26.7 Million**) was intended to help each IRWM see what their funding ***could look like*** if we all agreed to an allocation. These scenarios are the same as ones developed previously, and I also added a few with DAC areas considered as a factor.
    - **Your IRWM should discuss these allocations and determine if you want to support one of these scenarios or propose an additional one**

Attached are the Draft allocation tables using most of the scenarios that were contemplated under Prop 84 as well as a couple of scenarios including DAC as a consideration. The scenario descriptions are below (and in tab 2 of the attached) and are hopefully easy to follow. The attached excel still has the formulas used, so if you want to follow the logic you can (please let me know if you see any errors).

1. Please contact me with any questions or found errors
2. Also feel free to send me any additional scenarios you think would be useful
3. Feel free to discuss this file in your region to help you get direction, ~~we will use this as a basis for discussion at the next subcommittee call~~ (note that DWR has delayed the planned release of the final draft guidance until September, so I'm not certain what if any decisions your regions will want to make ahead of that). Please let us know your thoughts on this.

Notes on the Excel:

- Round 1 assumptions are in the first table and assume maximum funding=$13.35 million
- Assumptions for both rounds together (in case we wanted each region to get a full allocation now to let them decide what to put forward in which round based on knowledge of total implementation funding) were also calculated under similar scenarios.

- For contemplation of the impact of DAC coverage on the allocations, *I made up a scenario where 30% of the total funding in Round 1* (so 30% of $13.35 million) *would be set aside for DAC projects and split based on a "DAC Ratio"*. I created the DAC Ratio statistic by allocating a region a score based on the sum of the maximum DAC coverage (either the DAC Tract or Block Group layer, whichever was larger) plus the area of DAC Places—thinking that the DAC places highlight DAC population centers. These scores were then normalized into a "DAC Ratio" that totals 1 across all 6 regions. Then the DAC set aside (assumed to be $4,005,000 for Round 1 which =30% of $13.35 million) was provide to each region based on their DAC Ratio and the remainder of money split as shown in the table below. The DAC Ratio calculations are also shown in the attached excel. I calculated them for both round 1 alone and also for the total funding in both rounds.

Round 1 Scenarios	**Explanation**
Scenario 1: Even	even split of round 1 total funding
Scenario 2:% Total Area	split based on % land area of the IRWM within the SRFA
Scenario 3: % Population	split based on % of total population of the IRWM within the SRFA
Scenario 4: 50% area and pop.	split based 50/50 on % of total area and total population of the IRWM within the SRFA
Scenario 5: $1 million each, rest % Area	$1million to each IRWM, then a split based on % Area
Scenario 6: $1 million each, rest % Pop.	$1million to each IRWM, then a split based on % Population
Scenario 7: $1 million each, rest 50 % Area and Pop.	$1 million to each IRWM; then split based 50/50 on % of total area and total population of the IRWM within the SRFA
Scenario 8:30% DAC set aside rest % Area	30% of Round 1 based on ***DAC Ratio*** (DAC Ratio calculated based on maximum areal coverage by a DAC Tract or Block Group + total DAC Place area); rest based on total IRWM % area
Scenario 9:30% DAC set aside rest % Pop	30% of Round 1 based on ***DAC Ratio*** (DAC Ratio calculated based on maximum areal coverage by a DAC Tract or Block Group + total DAC Place area); rest based on total IRWM % population
Scenario 10:30% DAC set aside rest 50% Area and Pop	30% of Round 1 based on ***DAC Ratio*** (DAC Ratio calculated based on maximum areal coverage by a DAC Tract or Block Group + total DAC Place area); rest split based on 50/50 total IRWM % area and % population

Here is the process our GIS analyst went through, to calculate the population stats of your IRWM inside the SRFA—I checked these numbers against a few IRWMPs and they look correct to me (but note that Tract level population stats are still approximate, especially when split between funding areas, because it is assumed that the population is evenly distributed across that tract, which of course they won't be).

1) Obtained US Census 2010 data for California Profile Tracts. This is a GIS layer that fully covers the entire state, in census tract areas. These areas have data for the total population within that area. This is the most current population data available.
2) Calculated the acreage of the original census tract, which has a known population assigned to it.
3) Clipped the US Census tract so that only the Census tract area within the SRFA remains
4) Intersected the clipped SRFA US Census tracts so that they are now cut by IRWM boundaries, and assigned corresponding IRWM names.
5) Calculated the remaining acreage for each Census tract that is within the SRFA IRWMS.
6) Calculated the percent the remaining US Census tract acreage is, of the ORIGINAL US Census tract area.
7) Used the remaining area percent to calculate the remaining percent of the original US Census tract population.
8) Added all of the remaining population numbers, by IRWM, to calculate the table below.

So basically, if I had a US census tract that was 100 acres and 500 people, and half (50 acres) of that tract falls within my SRFA IRWM, this calculation would tell me that a population of 250 people live within the SFRA IRWM

Round 1	$13,350,000								$7,350,000	$7,350,000				
Abbrev.	Total IRWM Acres in SRFA	% Area	Total IRWM Population in SRFA	% Population	Scenario 1: Even	Scenario 2:% Total Area	Scenario 3: % Population	Scenario 4: 50% area and pop.	Scenario 5: $1 million each, rest % Area	Scenario 6: $1 million each, rest % Pop.	Scenario 7: $1 million each, rest 50 % Area and Pop.	Scenario 8:30% DAC set aside rest % Area	Scenario 9:30% DAC set aside rest % Pop	Scenario 10:30% DAC set aside rest 50% Area and Pop
ARB	438,502.000	0.021	1,521,918.000	0.608	$2,225,000	$281,482.46	$8,116,004.35	$4,198,743.41	$1,154,973.49	$5,468,361.95	$3,311,667.72	$577,555.04	$6,061,720.37	$3,319,637.71
North Sac Val	9,442,174.103	0.454	549,618.000	0.220	$2,225,000	$6,061,104.32	$2,930,974.00	$4,496,039.16	$4,337,012.49	$2,613,682.31	$3,475,347.40	$4,901,781.49	$2,710,690.26	$3,806,235.87
Upper Pit	5,507,736.371	0.265	16,300.000	0.007	$2,225,000	$3,535,516.75	$86,923.78	$1,811,220.27	$2,946,520.46	$1,047,856.91	$1,997,188.69	$3,545,759.31	$1,131,744.23	$2,338,751.77
Upper Sac	2,284,215.998	0.110	13,251.000	0.005	$2,225,000	$1,466,280.04	$70,664.24	$768,472.14	$1,807,277.78	$1,038,905.03	$1,423,091.40	$2,065,383.21	$1,088,452.15	$1,576,917.68
Westside	2,847,426.269	0.137	340,423.000	0.136	$2,225,000	$1,827,815.02	$1,815,389.89	$1,821,602.46	$2,006,325.12	$1,999,484.32	$2,002,904.72	$1,649,337.96	$1,640,640.36	$1,644,989.16
Yuba	276,984.482	0.013	61,890.000	0.025	$2,225,000	$177,801.41	$330,043.74	$253,922.57	$1,097,890.66	$1,181,709.48	$1,139,800.07	$610,183.00	$716,752.63	$663,467.81
Total	**20,797,039.2**	**1.0**	**2,503,400.0**	**1.0**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**	**$13,350,000**

Both Rounds	$26,700,000								$14,700,000	$14,700,000				
Abbrev.	Total IRWM Acres in SRFA	% Area	Total IRWM Population in SRFA	% Population	Scenario 1: Even	Scenario 2:% Total Area	Scenario 3: % Population	Scenario 4: 50% area and pop.	Scenario 5: $2 million each, rest % Area	Scenario 7: $2 million each, rest % Pop.	Scenario 6: $2 million each, rest 50 % Area and Pop.	Scenario 8:30% DAC set aside rest % Area	Scenario 9:30% DAC set aside rest % Pop	Scenario 10:30% DAC set aside rest 50% Area and Pop
ARB	438,502.000	0.021	1,521,918.000	0.608	$4,450,000	$562,964.91	$16,232,008.71	$8,397,486.81	$2,309,946.98	$10,936,723.90	$6,623,335.44	$1,155,110.08	$12,123,440.74	$6,639,275.41
North Sac Val	9,442,174.103	0.454	549,618.000	0.220	$4,450,000	$12,122,208.64	$5,861,947.99	$8,992,078.32	$8,674,024.98	$5,227,364.62	$6,950,694.80	$9,803,562.97	$5,421,380.52	$7,612,471.75
Upper Pit	5,507,736.371	0.265	16,300.000	0.007	$4,450,000	$7,071,033.50	$173,847.57	$3,622,440.53	$5,893,040.92	$2,095,713.83	$3,994,377.37	$7,091,518.61	$2,263,488.46	$4,677,503.54
Upper Sac	2,284,215.998	0.110	13,251.000	0.005	$4,450,000	$2,932,560.09	$141,328.47	$1,536,944.28	$3,614,555.55	$2,077,810.06	$2,846,182.81	$4,130,766.42	$2,176,904.29	$3,153,835.36
Westside	2,847,426.269	0.137	340,423.000	0.136	$4,450,000	$3,655,630.04	$3,630,779.78	$3,643,204.91	$4,012,650.25	$3,998,968.64	$4,005,809.45	$3,298,675.91	$3,281,280.73	$3,289,978.32
Yuba	276,984.482	0.013	61,890.000	0.025	$4,450,000	$355,602.81	$660,087.48	$507,845.15	$2,195,781.32	$2,363,418.95	$2,279,600.14	$1,220,365.99	$1,433,505.26	$1,326,935.63
Total	**20,797,039.2**	**1.0**	**2,503,400.0**	**1.0**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**	**$26,700,000**

	30%	Remaining	30%	Remaining				
DAC Analysis	$4,005,000.0	$9,345,000.0	$8,010,000.0	$18,690,000.0				
Abbrev.	Total IRWM Acres	Area of DAC Tracts (acres)	DAC Tract Total % Cover	**DAC Places Total % Cover**	**Max DAC Plus Places**	**DAC Ratio**	30% Round 1	30% Total
ARB	438,502.000	84,309.0	19.2	11.1	36.2	0.095011	$380,517.32	$761,034.64
North Sac Val	9,442,174.1	5,519,142.4	**58.5**	4.2	62.6	0.164546	$659,008.46	$1,318,016.92
Upper Pit	5,507,736.4	5,507,730.2	**100.0**	1.8	101.8	0.267390	$1,070,897.58	$2,141,795.16
Upper Sac	2,284,216.0	2,234,825.4	**97.8**	0.9	98.8	0.259423	$1,038,987.18	$2,077,974.36
Westside	2,847,426.3	681,193.9	23.9	1.8	35.2	0.092351	$369,867.44	$739,734.88
Yuba	276,984.5	48,672.6	17.6	7.5	46.2	0.121279	$485,722.01	$971,444.02
					380.7	1	$4,005,000.00	$8,010,000.00

Abbrev.	Total IRWM Acres	Area of DAC Block Groups (acres)	Block Group Total % Cover
ARB	438,502.000	110,190.6	**25.1**
North Sac Val	9,442,174.1	4,565,409.1	48.4
Upper Pit	5,507,736.4	4,390,164.4	79.7
Upper Sac	2,284,216.0	1,618,418.2	70.9
Westside	2,847,426.3	950,056.9	**33.4**
Yuba	276,984.5	107,020.0	**38.6**

Scenarios	Explanation
Scenario 1: Even	even split of round 1 total funding
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Scenario 4: 50% area and pop.	split based 50/50 on % of total area and total population of the IRWM within the SRFA
Scenario 5: $1 million each, rest % Area	$1million to each IRWM, then a split based on % Area
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WESTSIDE SAC IRWM
Integrated Regional Water Management Plan

Annual Work Plan 2017-2018 - Review of Accomplishments

Action	Complete	Partially Complete	Not Complete	Notes
Goals and Objectives:				
Goal 1: Coordinate with adjacent IRWM Regions and other organizations and activities related to Integrated Regional Water Management Planning				
Objective 1: Communicate and coordinate with neighboring IRWM Regions				
Task 1: Report coordination activities at Regular Westside IRWMP meetings.				
Task 2: Include water agencies in communication and activities of the Westside IRWM and foster increased interaction.				
Goal 2: Increase focus on and funding opportunities for diverse objectives contained in the Plan				
Objective 1: Support the implementation of the Disadvantaged Community Involvement grant				
Task 1: CC members provide information and cooperate with Phase I Identification and Assessment activities				
Objective 2: Support the implementation of the EPA Brownfields Coalition Assessment Project				
Task 1: CC members support Brownfields Team in coordinating with county agencies, staff and landowners for outreach and guidance.				
Task 2: CC members support Brownfields Team with timely review and input on draft deliverables.				
Objective 3: Secure sustainable funding for the Small Grants Program				
Task 1: Request increased annual contribution from members of the Regional Water Management Group				
Objective 4: Promote awareness and prevention of invasive species				
Task 1: Support completion of wildlife agency permits to allow cross-county transport of quagga-mussel boat				
Task 2: Develop and distribute informational materials on quagga/zebra mussels				
Task 3: Display quagga-mussel boat and educational materials at two or more events outside of Lake County				
Objective 5: Promote water-related education				
Task 1: Support and/or promote at least one education project for funding as opportunities arise.				
Objective 6: Support water-related habitat improvement.				
Task 1: Support at least one habitat project for funding as opportunities arise				
Goal 3: Bring the Westside IRWM Plan into compliance with current requirements				
Objective 1: Have a compliant plan completed to timely qualify for a DWR grant award under the 2018 Prop-1 IRWM Implementation Round.				
Task 1: Secure a contract for updating the Westside Sac IRWM Plan.				
Task 2: Complete the update of the Westside Sac IRWM Plan before grant award.				
Task 3: Track and update accomplishments of the Westside Sac IRWMP Coordinating Committee and include in the next Annual Report.				
Goal 4: Report to the public on implementation progress for the Westside Sac IRWM Plan				
Objective 1: Determine progress toward accomplishing Westside Plan Goals and Objectives.				
Task 1: Review and develop an update of broad accomplishments under the Westside Plan.				
Task 2: Complete an assessment of individual project progress.				
Task 3: Publish update and accomplishments in the Westside's next Annual Report.				

WESTSIDE SAC IRWM
Integrated Regional Water Management Plan

Annual Work Plan 2018 – 2019 – DRAFT

Purpose of Work Plan

The purpose of this Work Plan is to state clearly the goals, objectives and tasks the IRWM Coordinating Committee (CC) will focus on for the 2018 – 2019 Fiscal Year.

Introduction and Background

This is the 4th Annual Work Plan for the Westside Sac IRWM Coordinating Committee (CC). The CC will maintain its foundational activities of function and governance, will sustain its commitment to the grant-funded projects in progress, and will move toward a broader examination and fulfillment of Plan Objectives based on importance, urgency and area of focus.

Goals and Objectives for 2018-19:

Goal 1: Coordinate with adjacent IRWM Regions and other organizations and activities related to Integrated Regional Water Management Planning

- Objective 1: Communicate and coordinate with neighboring IRWM Regions
  - Task 1: Report coordination activities at Regular Westside IRWMP meetings.
  - Task 2: Include water agencies in communication and activities of the Westside IRWM and foster increased interaction.

Goal 2: Increase focus on and funding opportunities for diverse objectives contained in the Plan

- Objective 1: Support the implementation of the Disadvantaged Community Involvement grant
  - Task 1: CC members provide information and cooperate with Phase I Identification and Assessment activities
- Objective 2: Support the implementation of the EPA Brownfields Coalition Assessment Project
  - Task 1: CC members support Brownfields Team in coordinating with county agencies, staff and landowners for outreach and guidance.

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Task 2: CC members support Brownfields Team with timely review and input on draft deliverables.

Objective 3: Secure sustainable funding for the Small Grants Program

Task 1: Request increased annual contribution from members of the Regional Water Management Group

Objective 4: Promote awareness and prevention of invasive species

Task 1: Support completion of wildlife agency permits to allow cross-county transport of quagga-mussel boat

Task 2: Develop and distribute informational materials on quagga/zebra mussels

Task 3: Display quagga-mussel boat and educational materials at two or more events outside of Lake County

Objective 5: Promote water-related education

Task 1: Support and/or promote at least one education project for funding as opportunities arise.

Objective 6: Support water-related habitat improvement.

Task 1: Support at least one habitat project for funding as opportunities arise

Goal 3: Bring the Westside IRWM Plan into compliance with current requirements

Objective 1: Have a compliant plan completed to timely qualify for a DWR grant award under the 2018 Prop-1 IRWM Implementation Round.

Task 1: Secure a contract for updating the Westside Sac IRWM Plan.

Task 2: Complete the update of the Westside Sac IRWM Plan before grant award.

Task 3: Track and update accomplishments of the Westside Sac IRWMP Coordinating Committee and include in the next Annual Report.

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Goal 4: Report to the public on implementation progress for the Westside Sac IRWM Plan

Objective 1: Determine progress toward accomplishing Westside Plan Goals and Objectives.

Task 1: Review and develop an update of broad accomplishments under the Westside Plan.

Task 2: Complete an assessment of individual project progress.

Task 3: Publish update and accomplishments in the Westside's next Annual Report.