

NID PLAN FOR WATER WORKSHOP #3
WATER SERVICE AREA OVERVIEW

Plan For Water Workshop #3

Water Service Area Overview



- ▶ This is an open forum workshop
 - ▶ Feel free to ask questions as we go
 - ▶ Zoom attendees; raise hand on zoom app, or press *9 on your phone
 - ▶ We will call on you to unmute and join the conversation



NID Lands Divided by Watershed Collection and Service Area

Watershed Area

- ▶ Generally known as NID's Mountain Division
- ▶ Operated and Maintained by NID's Hydroelectric Division

Service Area

- ▶ Lands where NID provides water delivery for consumptive uses
- ▶ Operated and maintained by NID's Water Division





SIERRA COUNTY

NEVADA COUNTY

YUBA COUNTY

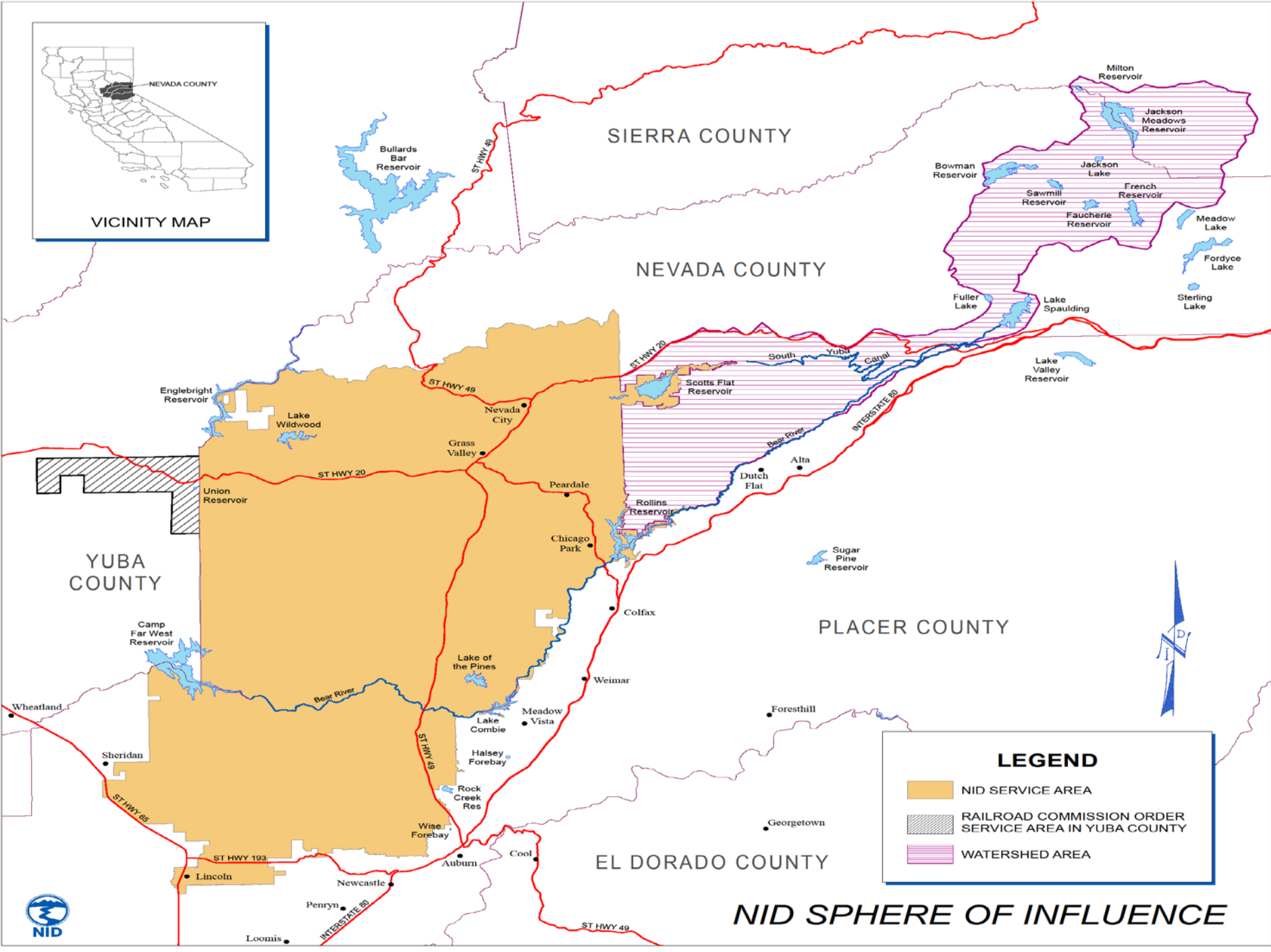
PLACER COUNTY

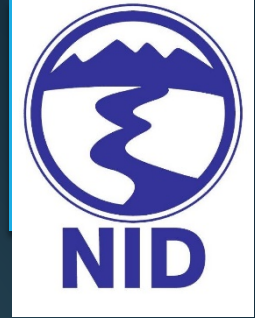
EL DORADO COUNTY

LEGEND

- NID SERVICE AREA
- RAILROAD COMMISSION ORDER SERVICE AREA IN YUBA COUNTY
- WATERSHED AREA

NID SPHERE OF INFLUENCE





Two Halves of NID

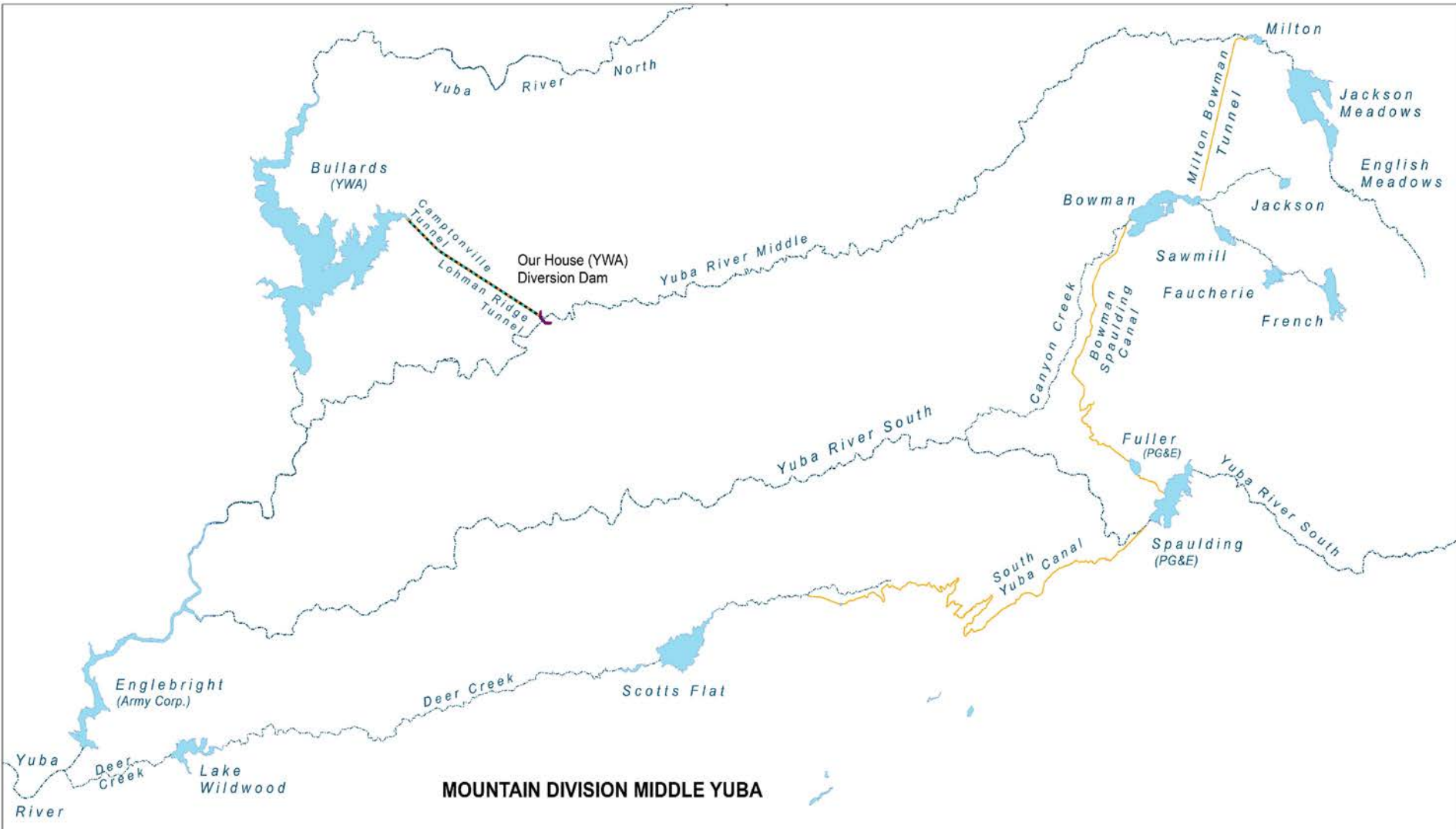
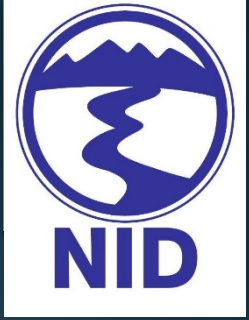
Watershed Lands

- ▶ 70k acres
- ▶ Lands Purchased With Water Rights
- ▶ Area of interest in NID SOI
- ▶ 9 Storage Res
- ▶ 270,089 Acre Feet Total Volume
- ▶ 24.4 Miles of Canal, Flume and Tunnel
- ▶ 7 Powerhouses
 - ▶ 82.2 Megawatts Max Cap.
- ▶ 19 Campgrounds and Dispersed Camping
- ▶ Roughly 300,000 Annual Visitors

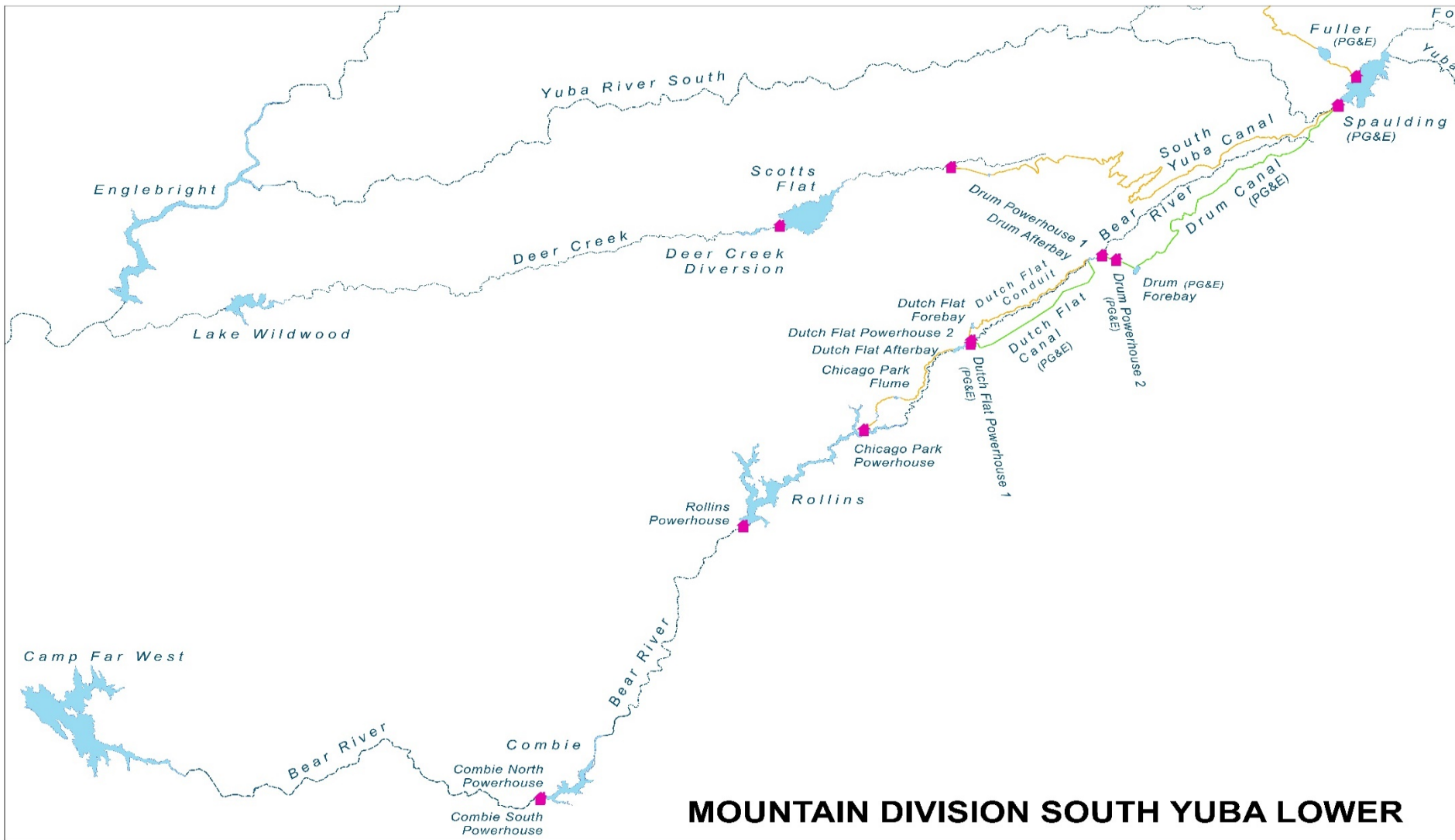
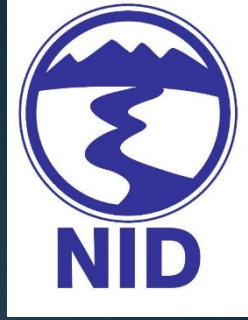
Water Distribution Service Area

- ▶ 287,000 Acres of Land
- ▶ Lands Included in Water Rights Service Area for Consumptive Use
- ▶ > 500 Miles of Canal
- ▶ > 6,500 Raw Water Customers
- ▶ 8 Water Treatment Plants
 - ▶ 6 NID
 - ▶ 1 City of GV & 1 City of NC
- ▶ > 400 Miles Treated Water Pipes
- ▶ 19,600 NID Treated Water Connections
 - ▶ 5,520 local city connections
- ▶ Utilize Roughly 150,000 Acre Feet a Year

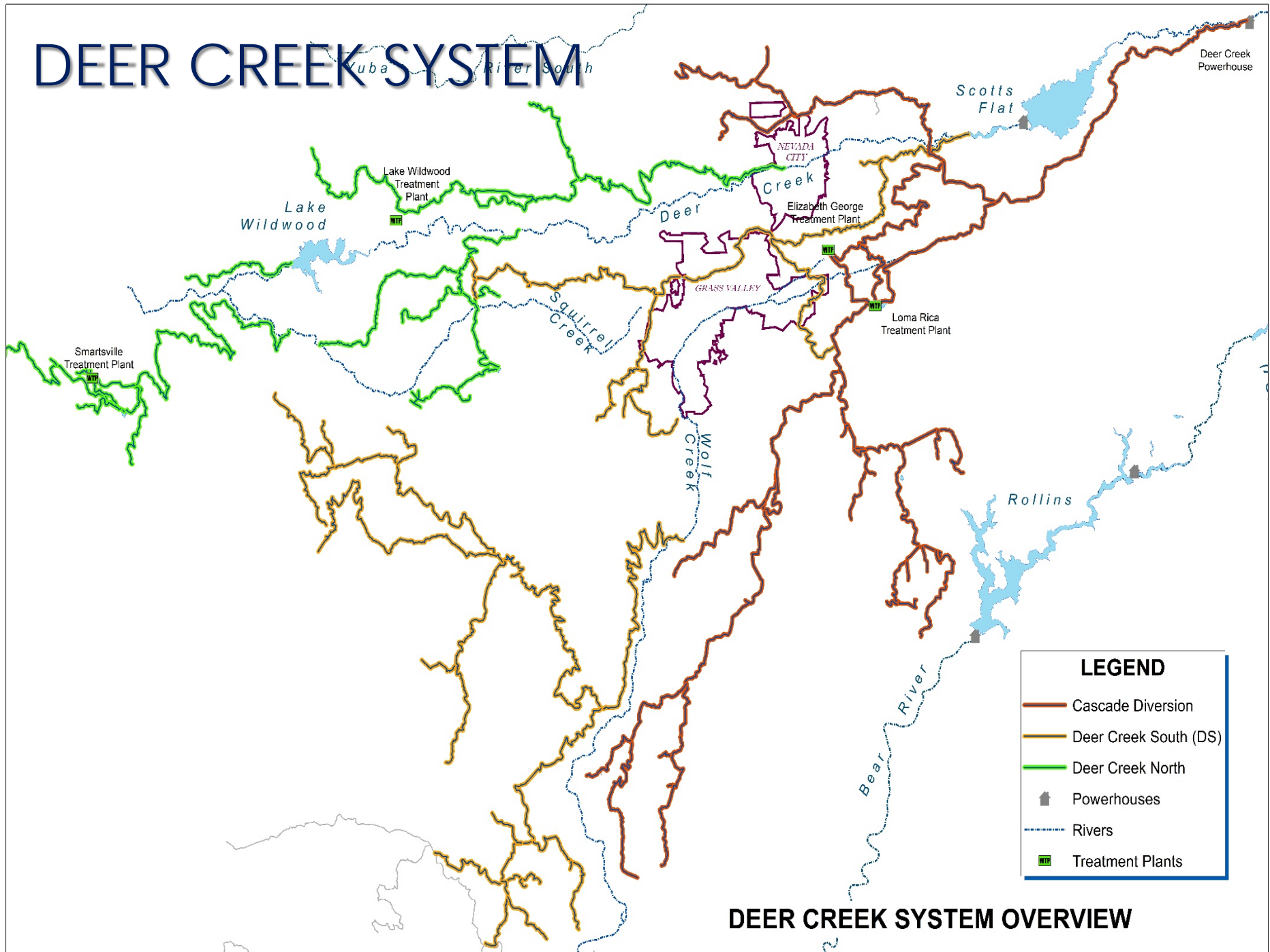
MIDDLE YUBA RIVER SYSTEM



SOUTH YUBA RIVER SYSTEM (LOWER)



DEER CREEK SYSTEM

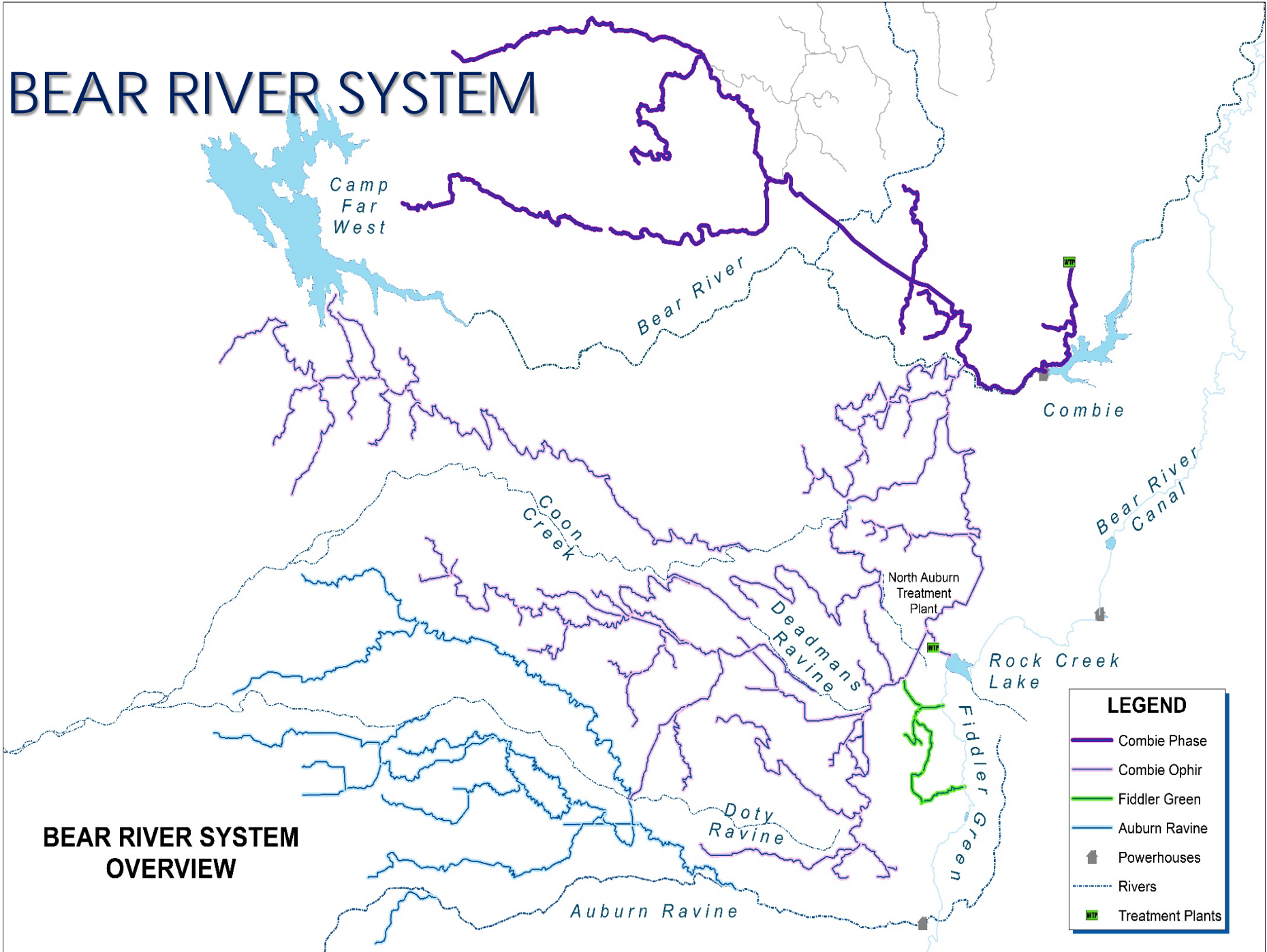


LEGEND

- Cascade Diversion
- Deer Creek South (DS)
- Deer Creek North
- Powerhouses
- Rivers
- Treatment Plants

DEER CREEK SYSTEM OVERVIEW

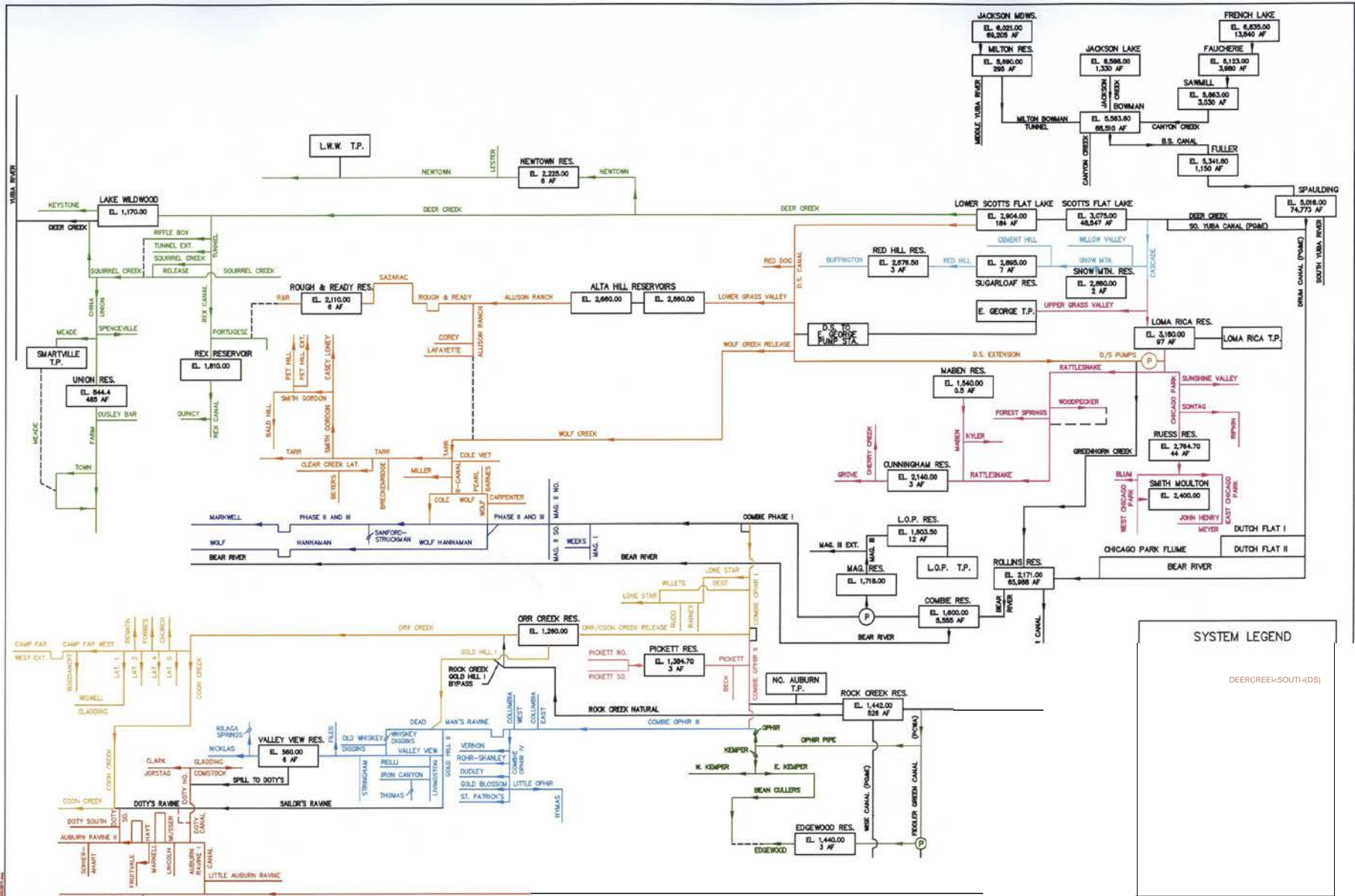
BEAR RIVER SYSTEM



BEAR RIVER SYSTEM OVERVIEW

LEGEND

- Combie Phase
- Combie Ophir
- Fiddler Green
- Auburn Ravine
- Powerhouses
- Rivers
- Treatment Plants



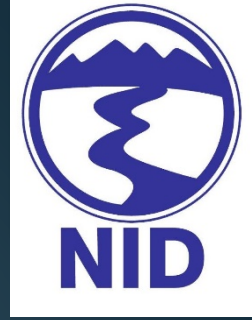
D.R.H.	2005 REVISIONS, NEW PUMP STATIONS AND ALTA HILL RES.	02/15/07	5
D.R.H.	2004 CANALS, REVISIONS FROM ISSUES, EROSION	02/15/07	5
	ADDED T.P.'S & PUMP STATIONS, MISC. CHGS./REDRAWN	10/7/99	4
R.L.G.	GENERAL REVISIONS	4/24/86	3
	FIXED CHERRY MTS. BRICKS & 3000'-HIGH	10/30/83	2
P.S.	REVISED ELEVATIONS	2/82	1

N.I.D.
NEVADA IRRIGATION DISTRICT
 NEVADA COUNTY — PLACER COUNTY
 GROSS WILLY
 CALIFORNIA

N.I.D. CANALS & RESERVOIRS
 FLOW SCHEMATIC

SYSTEM LEGEND

DEERCREEK-SOUTH(DS)



Two Primary Distribution Supplies Water

Deer Creek System

- ▶ Primary Supply to Nevada County
- ▶ 2019 Diversions 53,000 Acre-Feet
- ▶ Supplies 75 Canals
- ▶ 3,315 Raw Water Customers
 - ▶ 3,000 Summer Water Cust.
 - ▶ 315 Winter Water Cust.
- ▶ Supports 6 Potable Water Treatment Plants
- ▶ Supplies >18,260 Treated Water Connections
 - ▶ Population 52,300

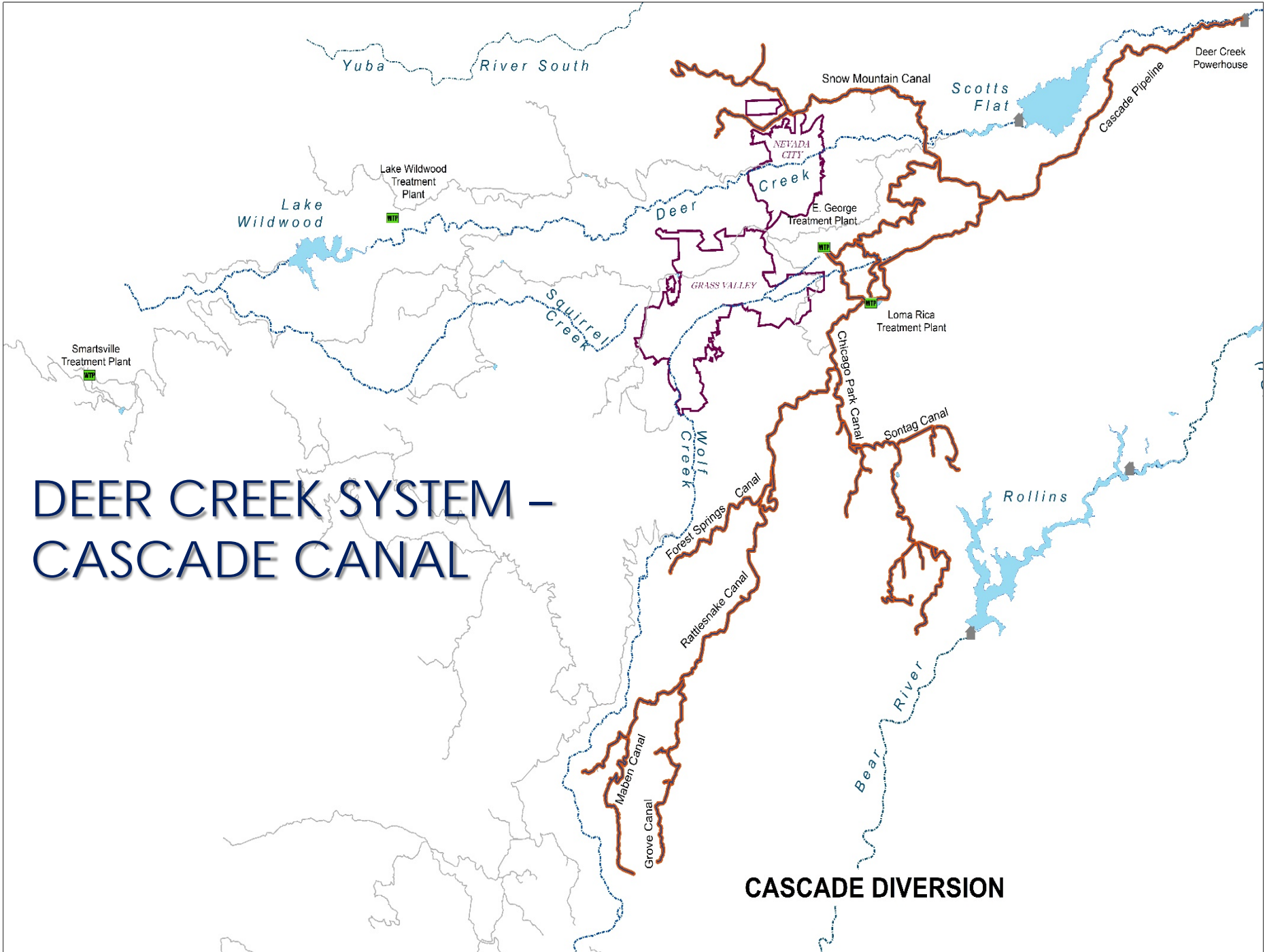
Bear River System

- ▶ Primary Supply to Placer County
- ▶ 2019 Diversions 87,500 Acre-Feet
- ▶ Supplies 86 Canals
- ▶ 3,680 Raw Water Customers
 - ▶ 3,083 Summer Water Cust.
 - ▶ 597 Winter Water Cust.
- ▶ Supports 2 Potable Water Treatment Plants
- ▶ Supplies 5,074 Treated Water Connections
 - ▶ Population >15,000

Deer Creek Cascade Canal Diversion



DEER CREEK SYSTEM – CASCADE CANAL



CASCADE DIVERSION

Cascade Canal System Diversion



- ▶ Diversion Located Above Scotts Flat
 - ▶ Supplied via natural Deer Creek and imported SYC flows
 - ▶ Flows continuously measured and reported via SCADA
 - ▶ Average flows in 2019 = 32 CFS in summer & 12.2 CFS in winter
 - ▶ Instream flow requirement of 10 CFS in winter and 3 CFS in summer (flows into Scotts Flat)
 - ▶ Supplies 31 Downstream canals covering a distance of > 76 Miles
 - ▶ Provides 1,401 summer irrigation water customers and 246 winter water customers
 - ▶ Is the main source of drinking water supply for Nevada City, Cascade Shores, Alta Sierra, and Chicago Park areas

Deer Creek Cascade Canal Diversion

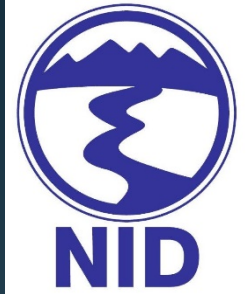




Cascade Canal System Diversion

Deer Creek System					
Cascade Canal Diversion					
	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Cascade	6.1	31.9	12.2	81	18
Cascade Pipe	12			19	4
Snow Mtn	5.2	2.8		65	13
Willow Valley	0.45			7	4
Cement Hill	3.7	1.1		69	11
Lake Vera Pipe	0.66			14	0
Sugar Loaf Res/Pipe				2	0
Red Hill	2.3	0.8		70	10
Red Hill Res/Pipe				3	1
Buffington	0.136			10	4
Upper G.V.	0.86	0.2		1	1
Chicago Park	8.27	17.6		217	35
Sunshine Valley	1.53	1.4		73	16
Sontag	2.35	0.5		56	17
Ripkin	0.62	0.2		11	0
Russ Reservoir				4	0
Chicago Park East	1.56	1.1		54	8
Chicago Park West	1.84	1.4		53	5
Meyer Bierwagen Pipe	0.49			17	1
Smith Moulton	0.83			21	2
Blum Pipe	0.33			5	0
John Henry Meyer	1.52	0.2		24	5
Rattlesnake	10.25	7.6		173	32
Woodpecker	1.41	0.6		60	19
Forest Springs	3.2	0.9		59	11
Maben	5.77	0.9		75	11
Maben Res/Pipe				20	5
Kyler	1.7			48	6
Grove	3.26	2.4		68	7
Cherry Creek	0.3			15	0
O Leary Pipe				7	0
Total: 31 Canals	76.636	71.6	12.2	1401	246

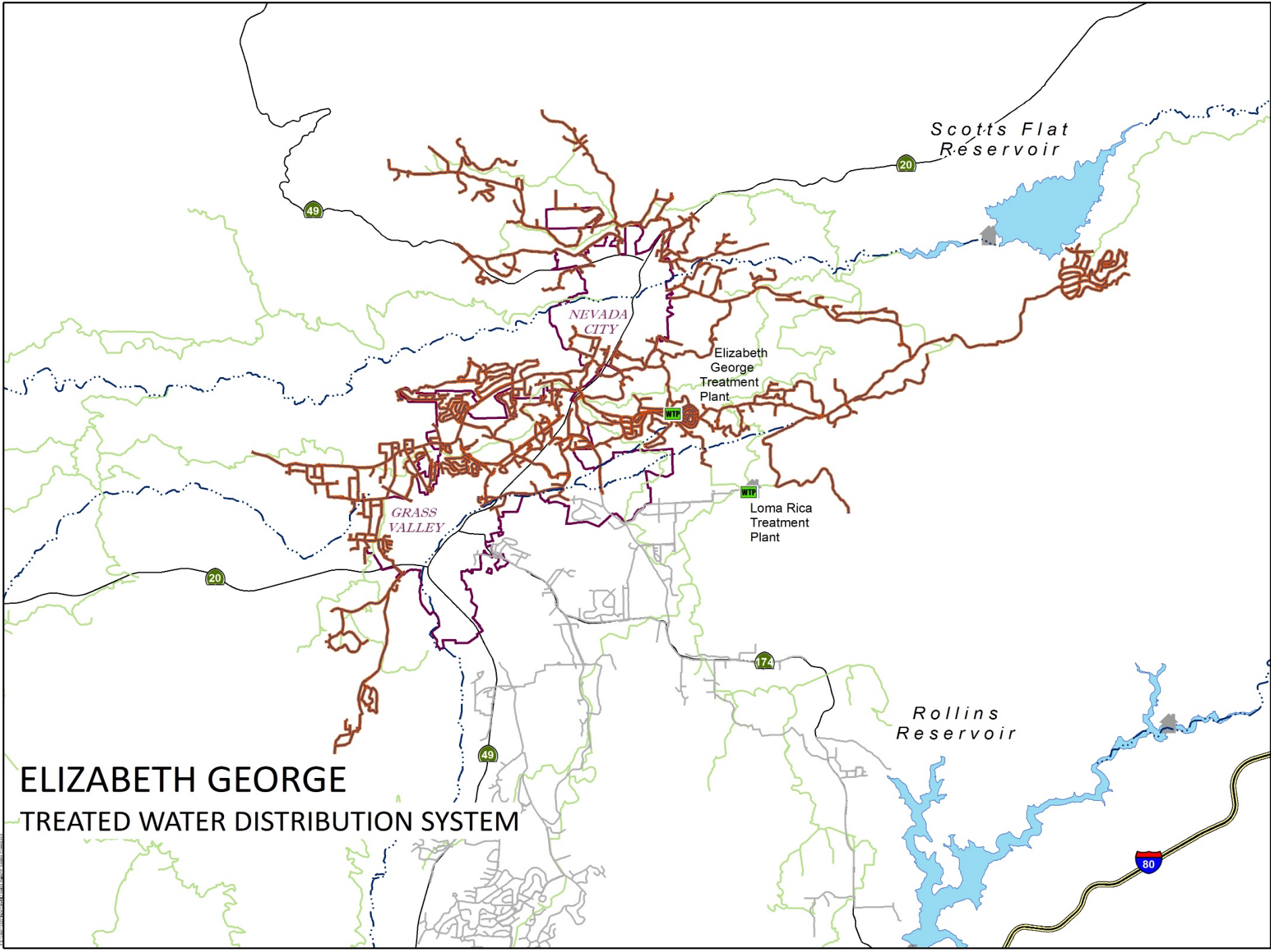
Cascade System Drinking Water Treatment Plants



Elizabeth George Water Treatment Plant

- ▶ 18 MGD Capacity
- ▶ Serves 6,342 Connections
 - ▶ Equivalent to population of 18,000 people
- ▶ 153 Miles of Pipeline
- ▶ >60 Pressure zones
- ▶ Intertied with Loma Rica, City of Nevada City, & Grass Valley
- ▶ Combined with Cascade Shores in 2013
- ▶ Produced 1.269 Billion Gallons in 2020





Scotts Flat Reservoir

NEVADA CITY

Elizabeth George Treatment Plant

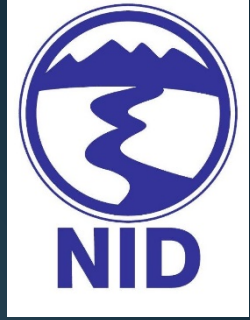
GRASS VALLEY

Loma Rica Treatment Plant

Rollins Reservoir

ELIZABETH GEORGE TREATED WATER DISTRIBUTION SYSTEM

80

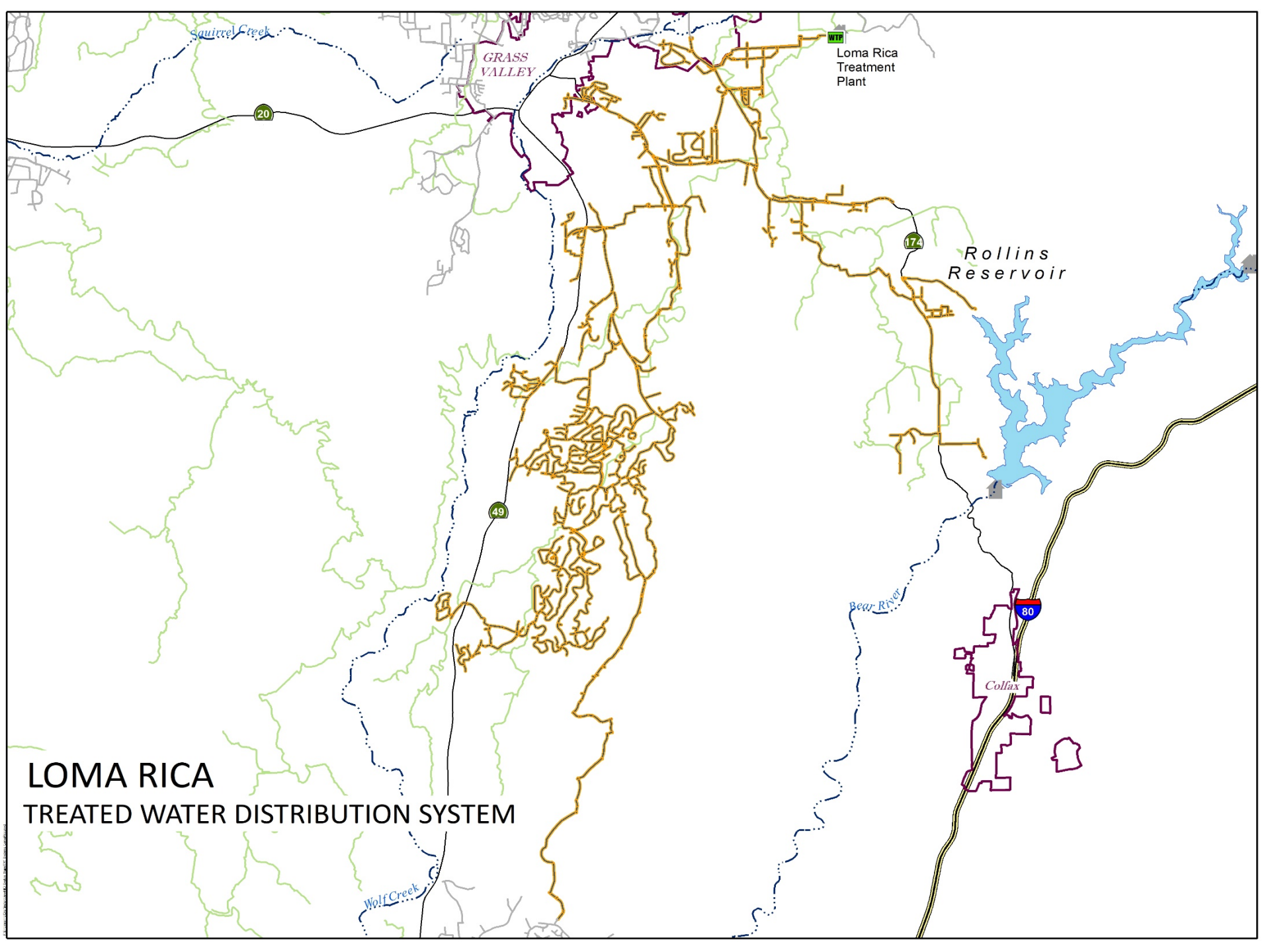


Loma Rica Water Treatment Plant

- ▶ 8.3 MGD Capacity
- ▶ Serves 5,065 Connections
 - ▶ Equivalent to population of 14,385 people
- ▶ 120 Miles of Pipeline
- ▶ >30 Pressure Zones
- ▶ Intertied with Lake of the Pines Distribution System
- ▶ Produced 660 Million Gallons in 2020



LOMA RICA TREATED WATER DISTRIBUTION SYSTEM



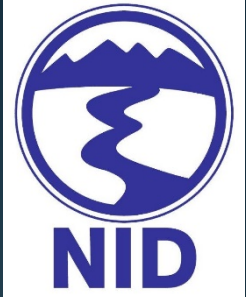


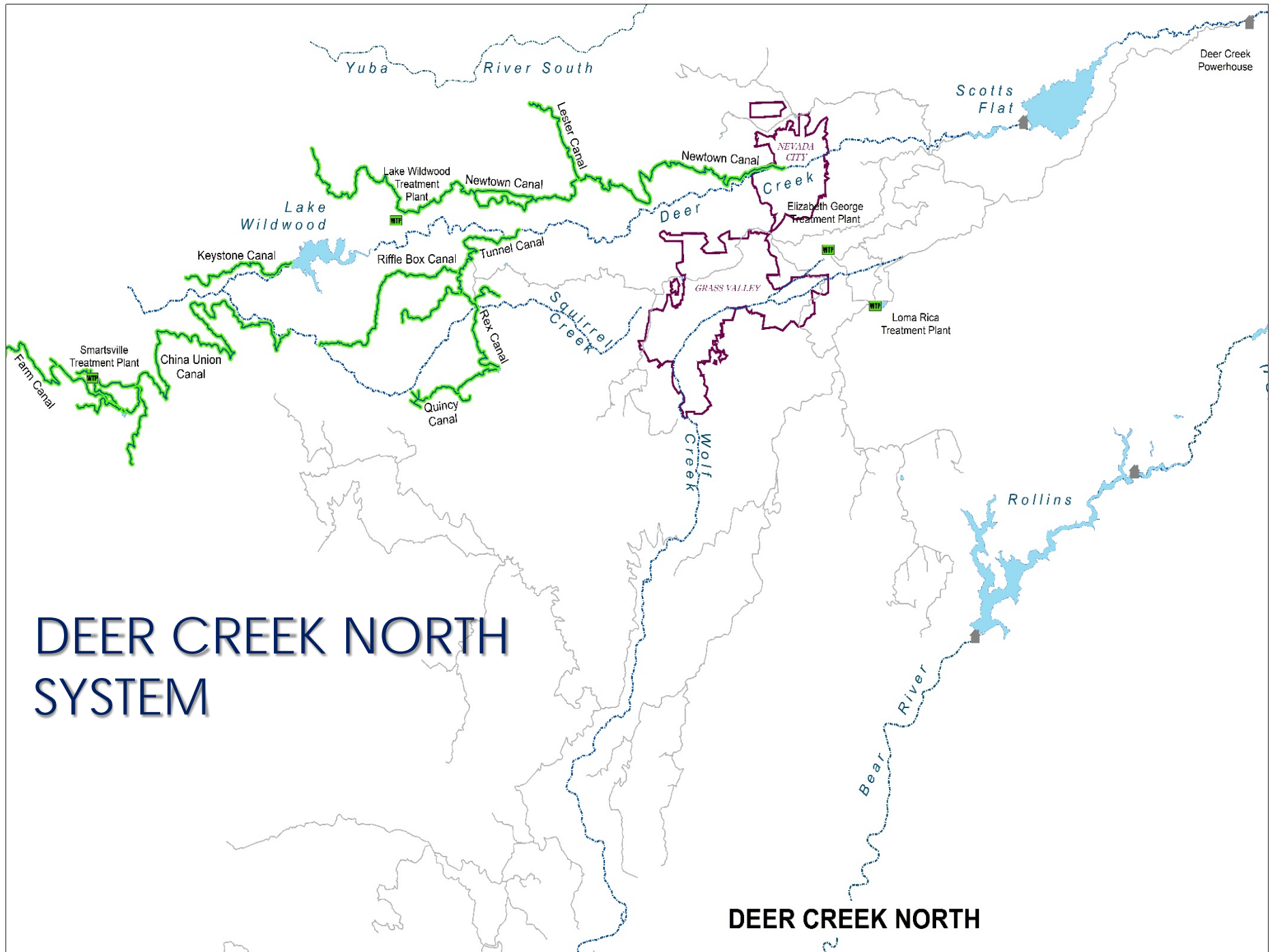
City of Nevada City Water Treatment Plant



- ▶ 2 MGD Per Day Capacity
- ▶ Services 1,252 Connections
 - ▶ Equivalent to population of 3,148
- ▶ Water Service Provider Within City Limits
- ▶ Intertied with NID Elizabeth George System

Deer Creek North System Regulation





DEER CREEK NORTH SYSTEM

DEER CREEK NORTH

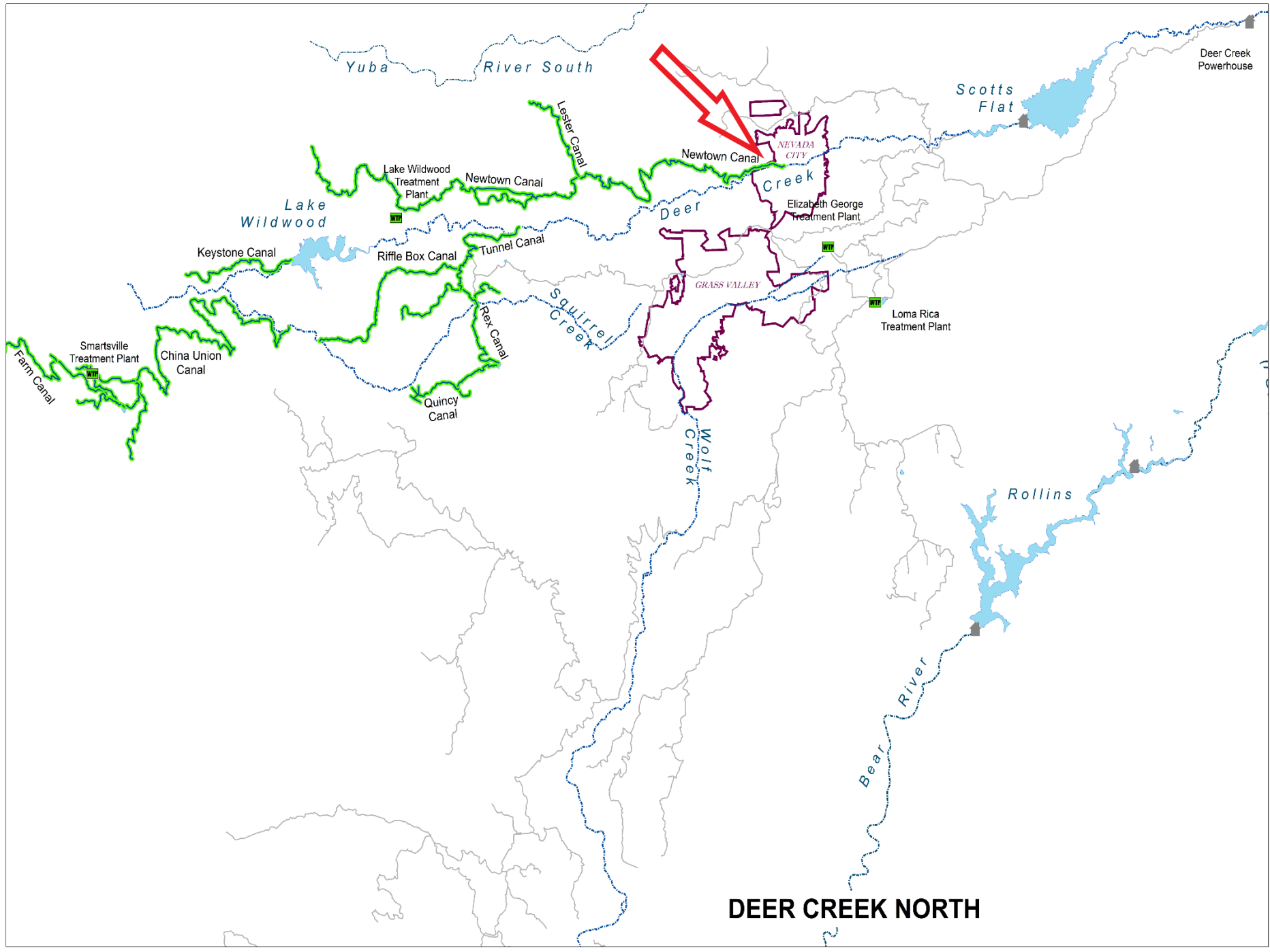


Deer Creek System

- ▶ Metering located at Lower Scotts Flat
 - ▶ Supplied via natural Deer Creek and SYC flows
 - ▶ Flows regulated and distributed into Deer Creek
 - ▶ Average flows in 2019 = 31 CFS in summer & 7 CFS in winter
 - ▶ Supplies 19 downstream canals covering a distance of > 65 Miles
 - ▶ Provides summer irrigation water to 595 customers and 32 winter water customers
 - ▶ Is the main source of drinking water supply for Lake Wildwood and Smartsville

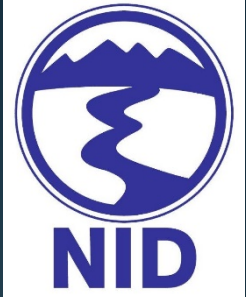
Newtown System Diversion

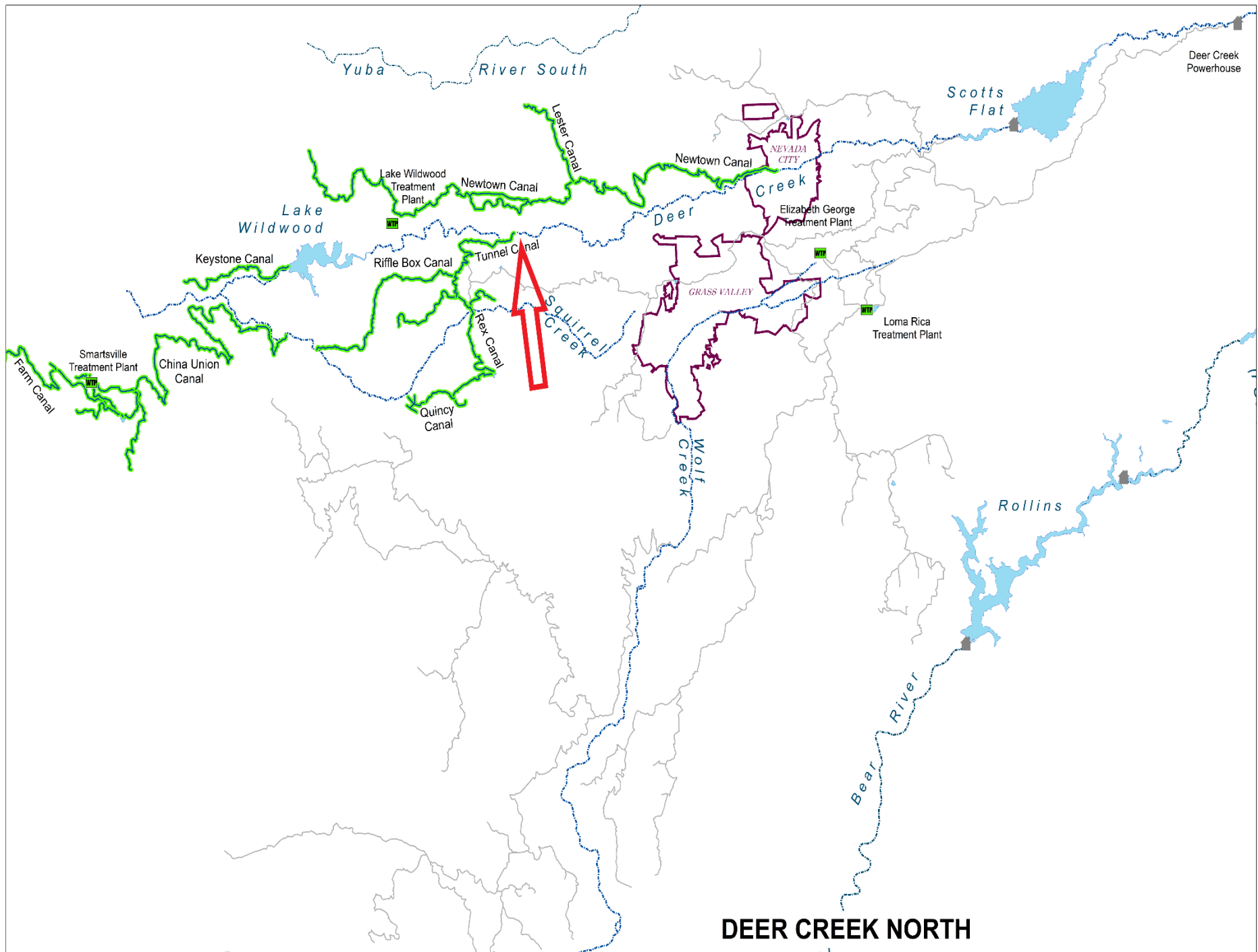




DEER CREEK NORTH

Tunnel System Diversion



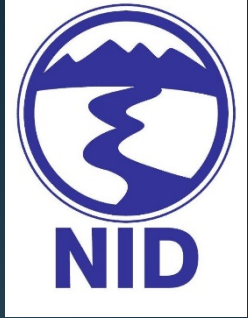


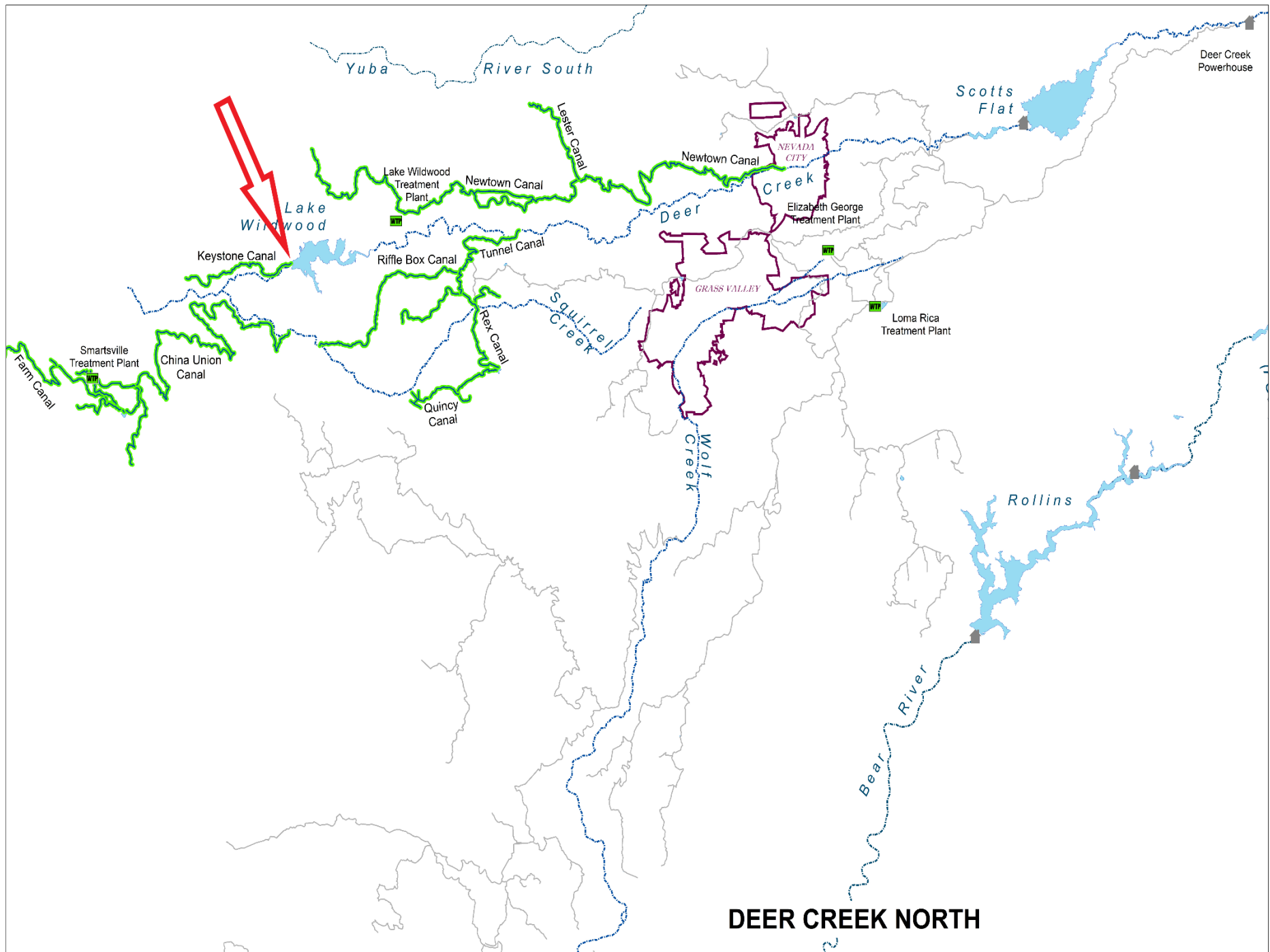
DEER CREEK NORTH

Tunnel System Diversion Measuring Station



Keystone System Diversion



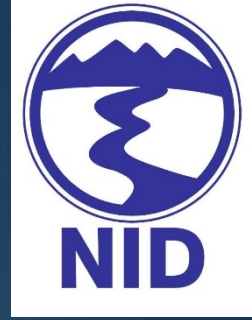


DEER CREEK NORTH



Deer Creek System Diversions

Deer Creek System					
Newtown, Tunnel, Keystone Diversions					
	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Canal					
Deer Creek Nat.		20.2	2.2	2	0
Newtown Diversion					
Newtown	18	11.8	3.3	169	12
Lester	2.34	1.3		48	3
Tunnel Diversion					
Tunnel	3.45	18.9	3.2	30	0
Riffle Box	4.5	4		69	7
Tunnel Ext.	2.21	1.8		74	2
Rex Canal	4.33			33	0
Portugese	1			10	1
Quincy	0.85	1.6		2	0
Quincy Pipe	0.42			21	0
Squirrel Creek Nat.	0.72			12	0
China Union	11.68	8.5		55	4
Spenceville	2.4	3		20	0
Meade	1.38	1.1		12	0
Ousley Bar	1.59			7	0
Town	1.31			3	0
Farm	6.78	3.1		17	3
Smartsville Irrig.				2	0
Keystone Diversion					
Keystone	3	1.2		9	0
Total: 19 Canals	65.96	76.5	8.7	595	32



Lake Wildwood WTP

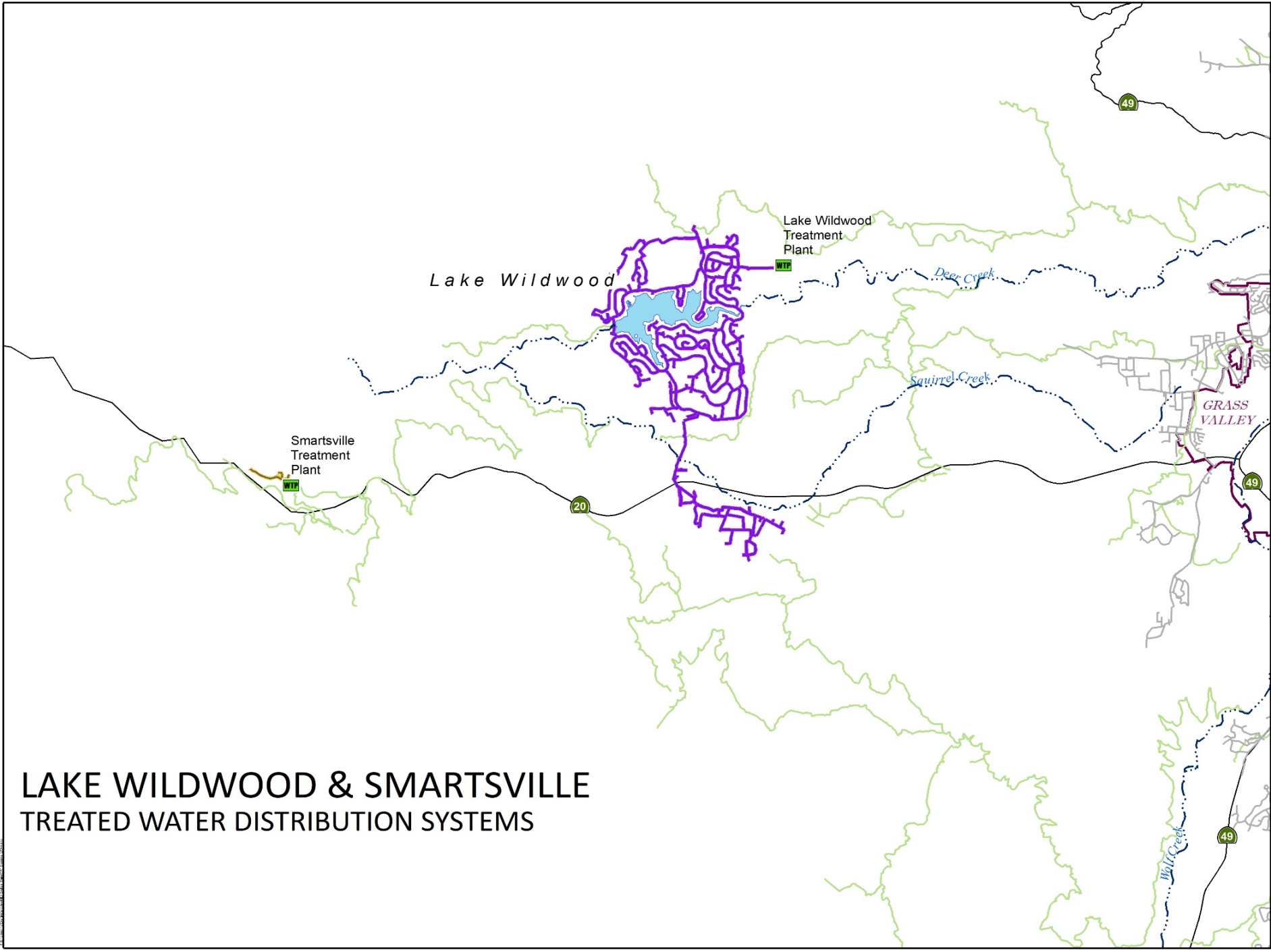
- ▶ 4 MGD Per Day Capacity
- ▶ Services 3,252 Connections
 - ▶ Equivalent to population of 9,236
- ▶ 44 Miles of Pipeline
- ▶ 10 Pressure Zones
- ▶ Also Supplies Penn Valley
- ▶ Produced 435 Million Gallons in 2020



Smartsville WTP

- ▶ 63 GPM Capacity
- ▶ Services 43
Connections
 - ▶ Equivalent to
population of
100
- ▶ 1 Mile of Pipeline
- ▶ Produced 7.1
Million Gallons in
2020



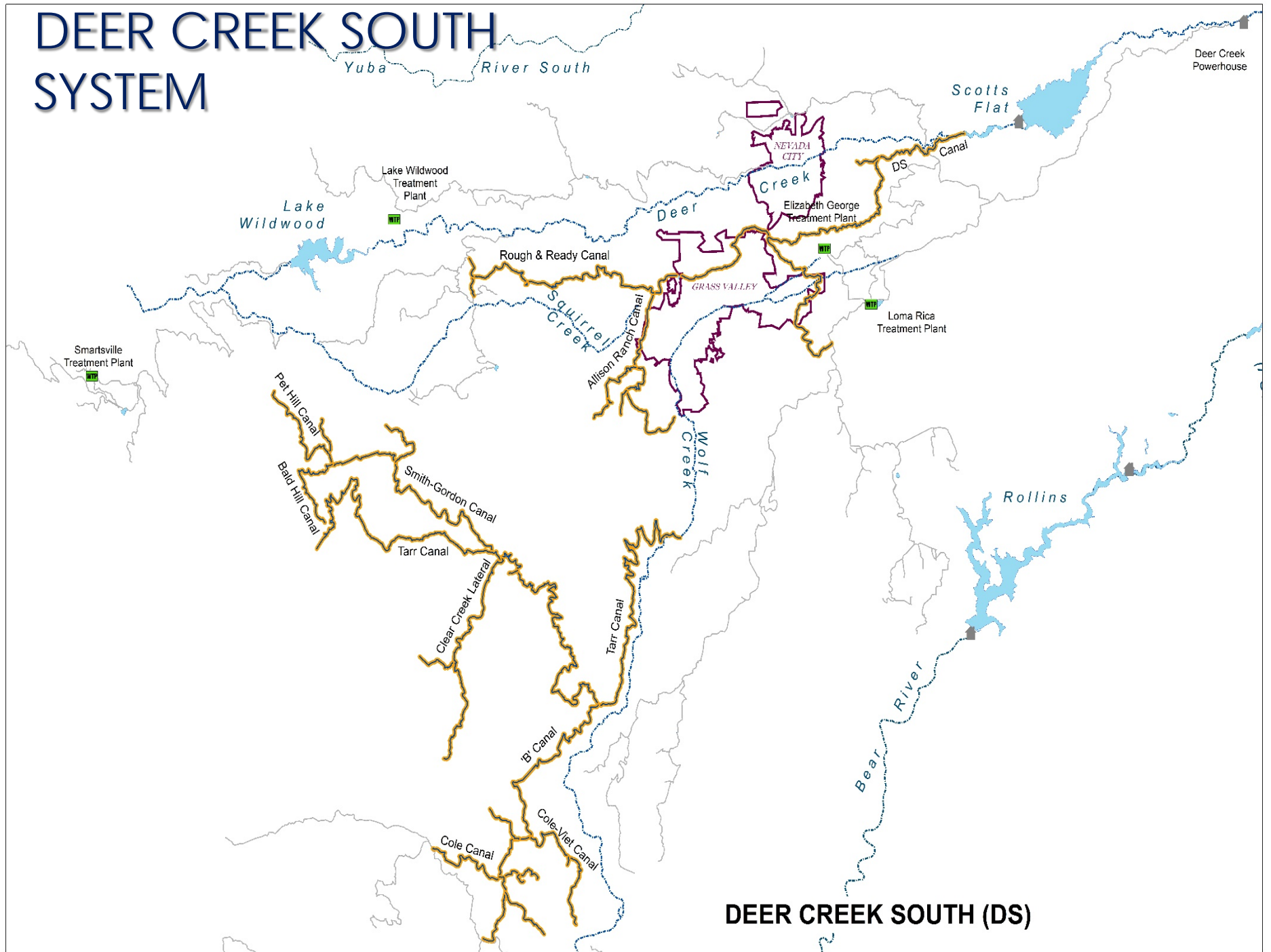


LAKE WILDWOOD & SMARTSVILLE TREATED WATER DISTRIBUTION SYSTEMS

Deer Creek South System Diversion



DEER CREEK SOUTH SYSTEM



DEER CREEK SOUTH (DS)

Deer Creek South System Diversion

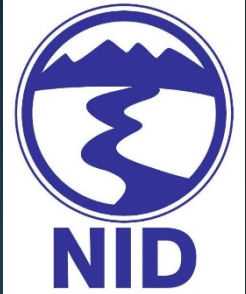


Deer Creek South System Diversion



- ▶ Diversion Regulated at Lower Scotts Flat
 - ▶ Supplied via natural Deer Creek and imported SYC flows
 - ▶ Flows continuously measured and reported via SCADA
 - ▶ Average flows in 2019 = 49 CFS in summer & 11 CFS in winter
 - ▶ Supplies 25 Downstream canals covering a distance of roughly 83 Miles
 - ▶ Provides 1,004 summer irrigation water customers and 37 winter water customers
 - ▶ Is the main source of drinking water supply for City of Grass Valley

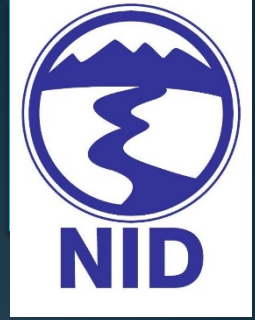
Measuring Station Head of DS





Deer Creek South System Diversion

Deer Creek System					
DS Diversion					
	Average Flows 2019			No. of Customers	
Canal	Length Miles	Summer	Winter	Summer	Winter
D.S.	7.95	48.9	11	43	1
Red Dog	0.55	0.2		13	2
Lower G.V.	2.84	8.3		11	1
Allison Ranch	5.3	4.8		54	4
Corey	1.7	1.3		50	3
Lafayette	0.46			2	0
Rough & Ready	5.3	2.3		115	19
Wolf Creek Nat.				3	0
Tarr	22.3	44.4		148	0
Breckenridge	0.18			2	0
Clear Creek	5.6	6		78	0
Beyers	1.02			13	0
Smith Gordon	6.19	7.9		91	0
Casey Loney	1.41	0.8		14	0
Stinson Pipe				11	0
Pet Hill	2.84	1.8		70	0
Pet Hill Ext.	0.77			26	0
Bald Hill	2.43	2.2		7	0
B Canal	6.02	12.9		64	2
Cole Viet	3.14	2.2		82	3
Miller	1			12	0
Wolf	1.74	3.4		33	0
Pearl Barnes	1.07	0.7		15	0
Carpenter	1.36	1.6		23	1
Cole	2.15	3.1		24	1
Total: 25 Canals	83.32	152.8	11	1004	37

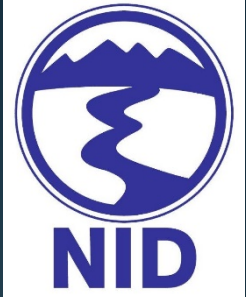


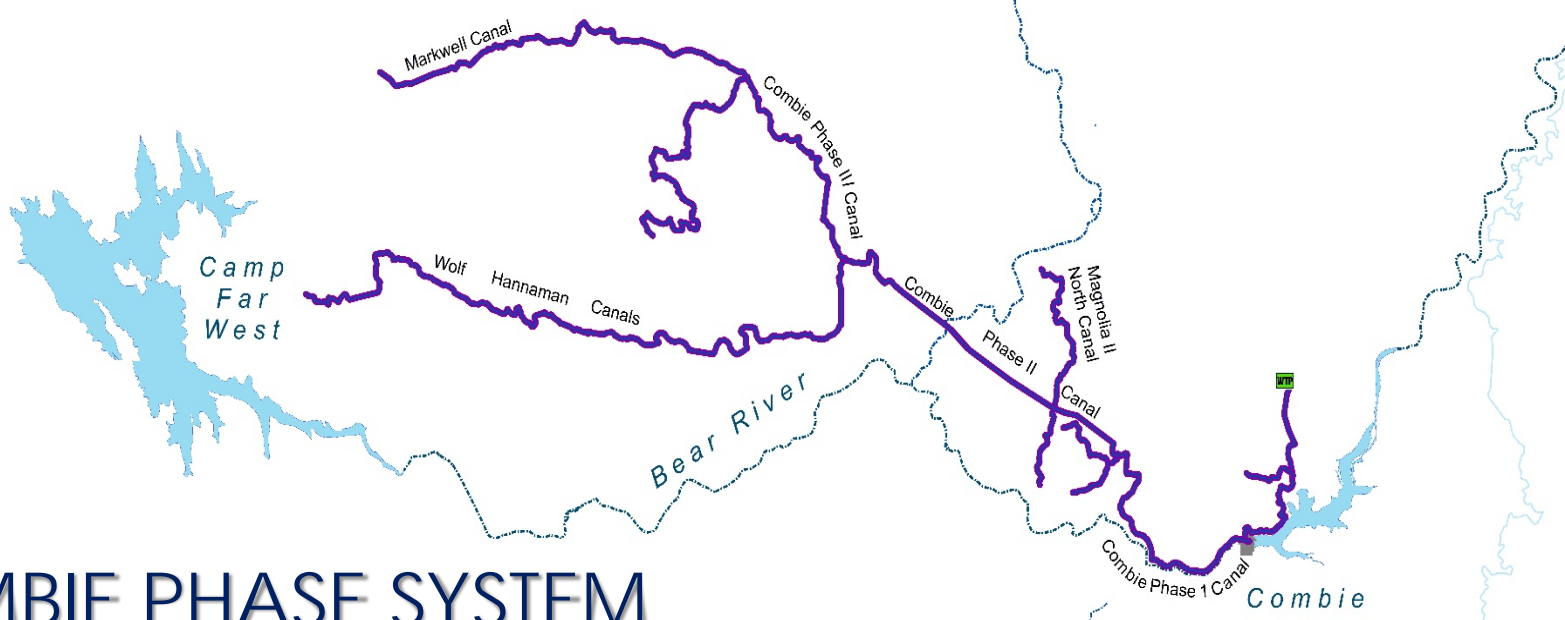
City of City of Grass Valley Water Treatment Plant

- ▶ 5 MGD Per Day Capacity
- ▶ Services 2,486 Connections
 - ▶ Equivalent to population of > 4,900
- ▶ Water Service Provider Within City Limits
- ▶ Intertied with NID E. George System

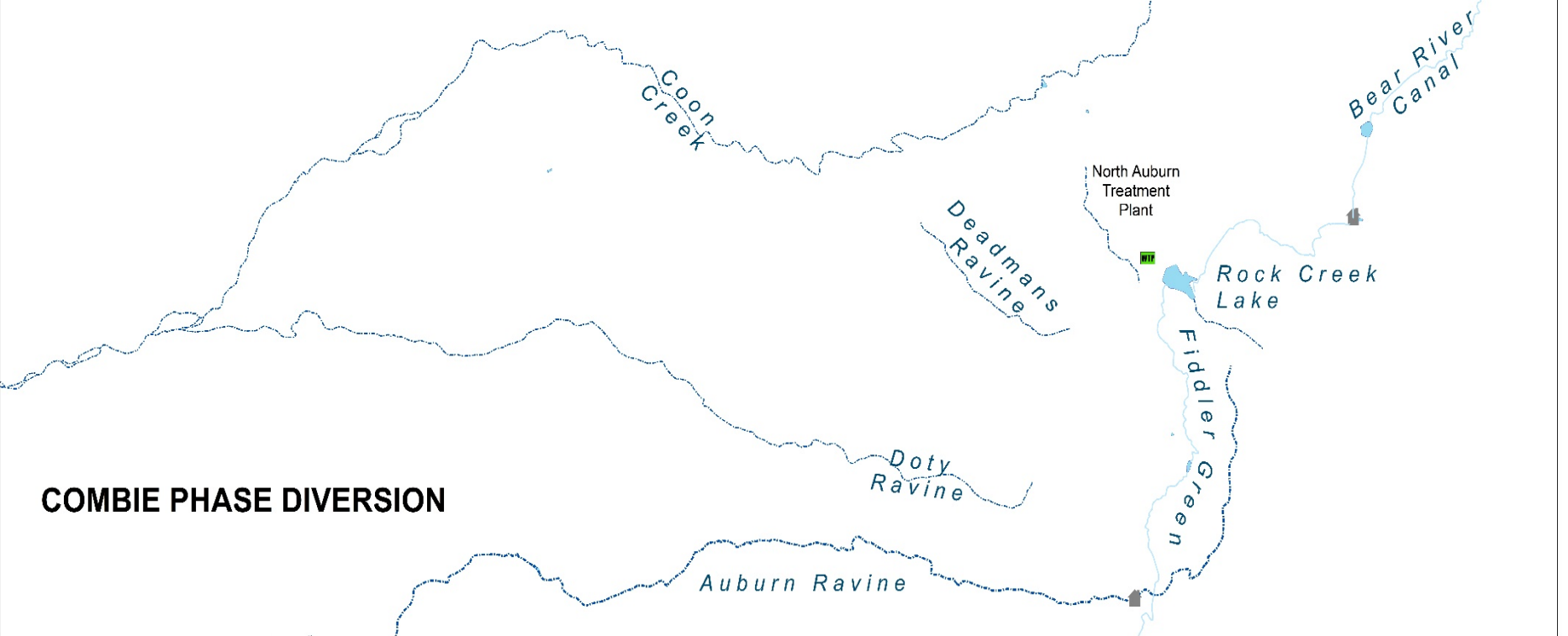


Combie Phase System Diversion





COMBIE PHASE SYSTEM



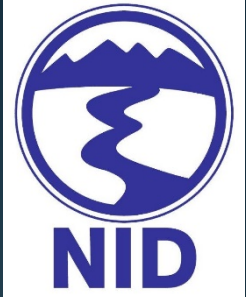
COMBIE PHASE DIVERSION

Combie Phase System Diversion



- ▶ Diversion Located at Lake Combie
 - ▶ Supplied via natural Bear River and imported Yuba River flows
 - ▶ Flows continuously measured and reported via SCADA
 - ▶ Average flows in 2019 = 123 CFS in summer & 35 CFS in winter
 - ▶ Also supplies the Combie Ophir System
 - ▶ Instream flow requirement of 5 cfs (below Combie in Bear River)
 - ▶ Supplies 12 Downstream canals covering a distance of > 33 Miles
 - ▶ Provides 400 summer irrigation water customers and 34 winter water customers
 - ▶ Is the main source of drinking water supply for Lake of the Pines

Combie Phase System Diversion





Combie Phase System Diversion

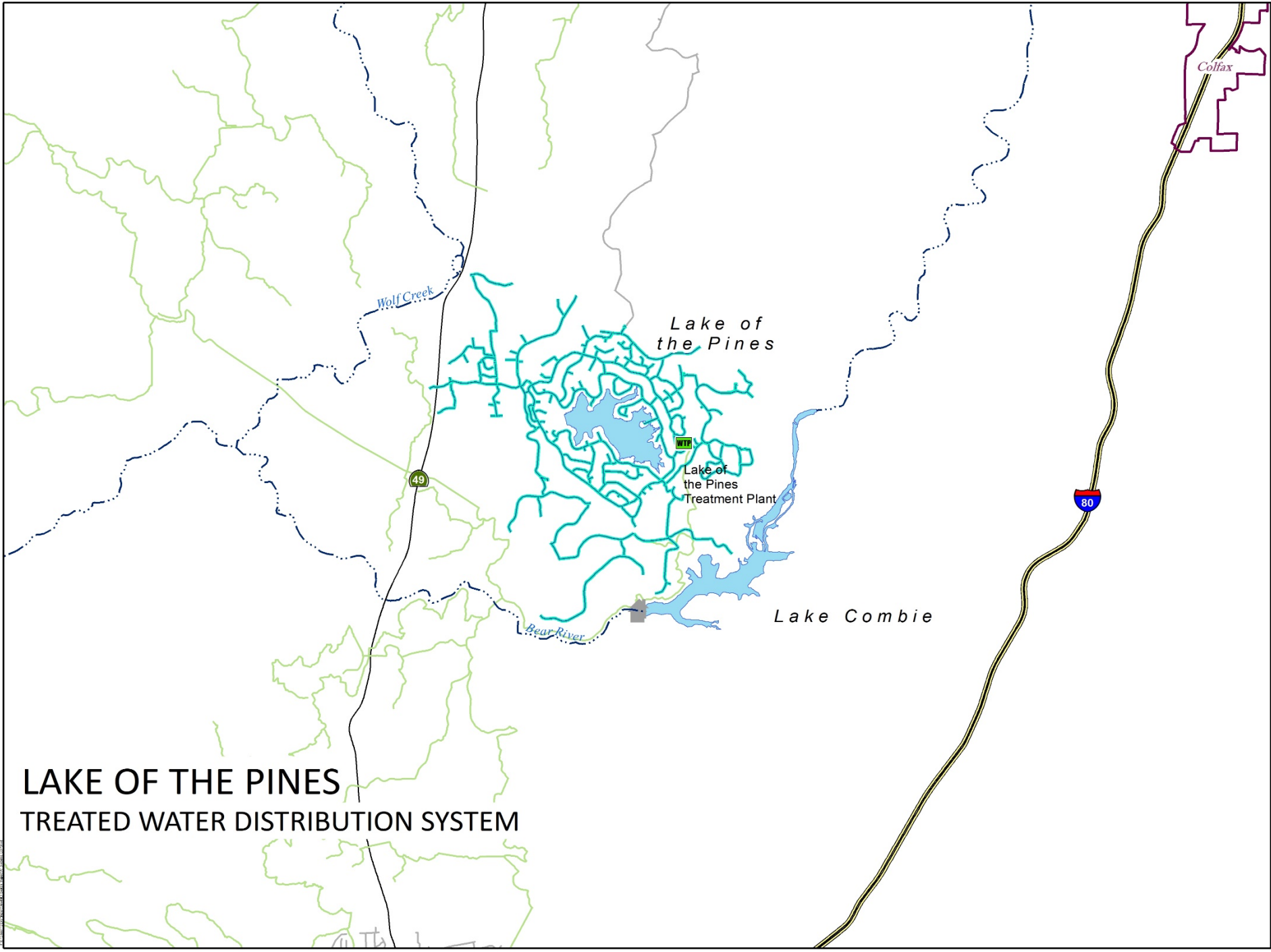
Bear River System					
Combie Phase 1 Diversion					
Canal	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Combie Phase I	1.78	122.2	34.8	0	0
Magnolia III	2.76	6.3		42	11
Magnolia III Ext.	0.63			5	0
Combie Phase II&III	5.46	19		114	14
Combie Phase III	3.44				
Magnolia I	1.02	0.8		22	2
Weeks	0.6	0.4		14	0
Mag. II South	1	1.2		29	1
Mag. II North	2.2	1.1		50	6
Markwell	4.14	6.3		25	0
Wolf Hannaman	5.68	7.2		53	0
Sanford Struckman	4.65	3.7		46	0
Total: 12 Canals	33.36	168.2	34.8	400	34



Lake of the Pines WTP

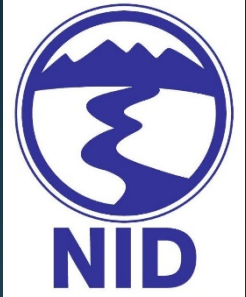
- ▶ 5 MGD Per Day Capacity
- ▶ Services 2,568 Connections
 - ▶ Equivalent to population of 7,293
- ▶ 42 Miles of Pipeline
- ▶ 5 Pressure zones
- ▶ Intertied with Loma Rica System
- ▶ Produced 401 Million Gallons in 2020





LAKE OF THE PINES TREATED WATER DISTRIBUTION SYSTEM

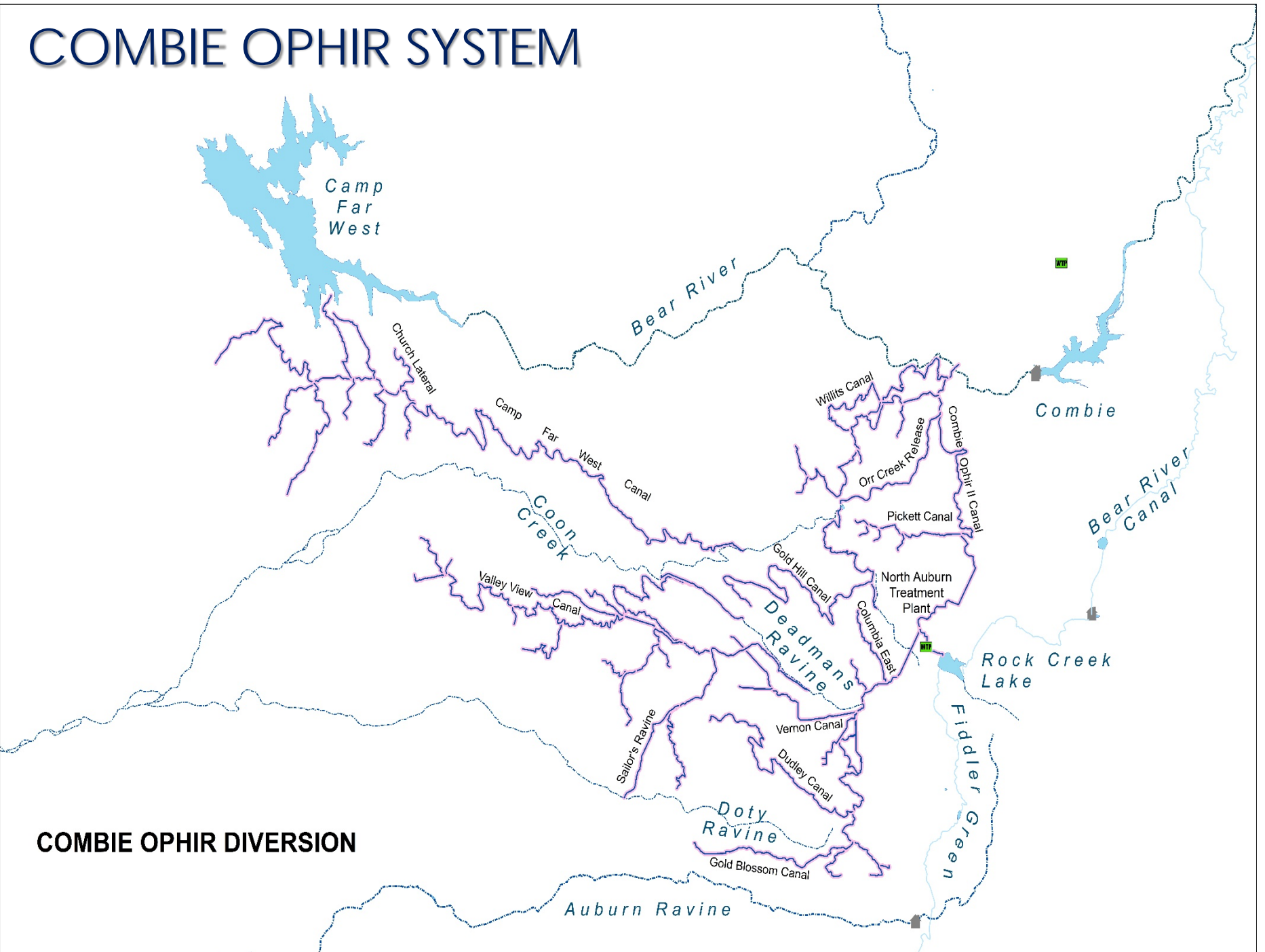
Combie Ophir System Diversion



Combie Ophir System Diversion

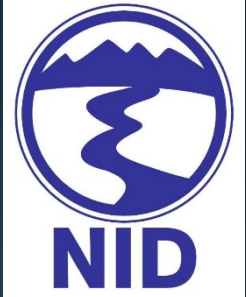


COMBIE OPHIR SYSTEM



COMBIE OPHIR DIVERSION

Combie Ophir System Diversion



Combie Ophir System Diversion



- ▶ Diversion From Lake Combie
 - ▶ Supplied via natural Bear River and Imported Yuba River flows
 - ▶ Flows continuously measured and reported via SCADA
 - ▶ Average flows in 2019 = 88 CFS in summer & 29 CFS in winter
 - ▶ Supplies 46 downstream canals covering a distance of > 106 Miles
 - ▶ Provides 1,991 summer irrigation water customers and 497 winter water customers
 - ▶ Is the back up source of drinking water supply to the North Auburn area

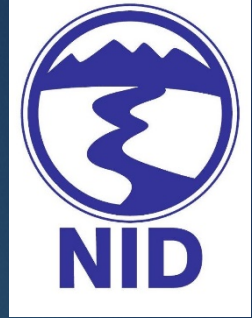
Combie Ophir System

Bear River System					
Combie Ophir 1 Diversion					
Canal	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Combie Ophir I	0.93	88	29	6	2
Lone Star	7.29	5.9		112	21
Rudd	0.37	2		21	2
Rainey	0.24			1	0
Oest	1.34	5.5		40	6
Willets	3			43	9
Orr Creek Nat.		33.7		13	1
Gold Hill I	8.73	7.5		132	17
Camp Far West		31		74	21
Lateral V	0.77	0.6		10	3
Lateral IV	1.4	1.9		31	8
Lateral II	0.82	0.4		5	0
Lateral I	1.51	3.8		30	2
Wiswell Gladding	0.95			17	4
Church	1.18	0.3		7	0
Forbes	1.45			12	8
Renken	1.8	0.9		18	6
Bogdanoff	1.8	2.6		18	2
Camp Far West Ext	13.03			27	0
Combie Ophir II	5.51	42.8		114	16
Picket	1.36	1.9		41	6
Beck	0.3			12	1
Picket North	0.75	0.8		28	3
Picket South	0.18			6	0
Rock Creek Bypass				0	0
Combie Ophir III	1.69			13	3
Columbia East	1.43	0.8		37	9
Columbia West	0.64	0.4		41	5
Combie Ophir IV	3.84	27.3		106	30
Vernon	2.8	4.7		100	40
Rohr-Shanley	1.1			54	17
Herkomer Pipe	0.78			27	8
Dudley	5.27	7.7		176	73
Gold Blossom	3.24	6.8		155	46
St. Patricks	0.92	1		33	13
Little Ophir	1.06			82	32
Hymas	0.24			13	13
Gold Hill II	5.66	3.9		65	5
Dead Mans Ravine		15.3		12	3
Wiskey Diggins	3.1	6.6		4	0
Old Wiskey Diggins	1.07			3	2
Valley View	8.41	9.7		68	20
Kilaga Springs	0.9	1.4		23	4
Nicklas	0.65	1.2		7	2
Livingston	1.32	7.1		64	23
Rielli	2.45	1		22	6
Iron Canyon	1.57	2.4		22	2
Thomas	1.1			21	3
Stringham	1.5	0.8		19	0
Files	0.26	0.9		6	0
Total: 46 Canals	105.71	328.6	0	1991	497

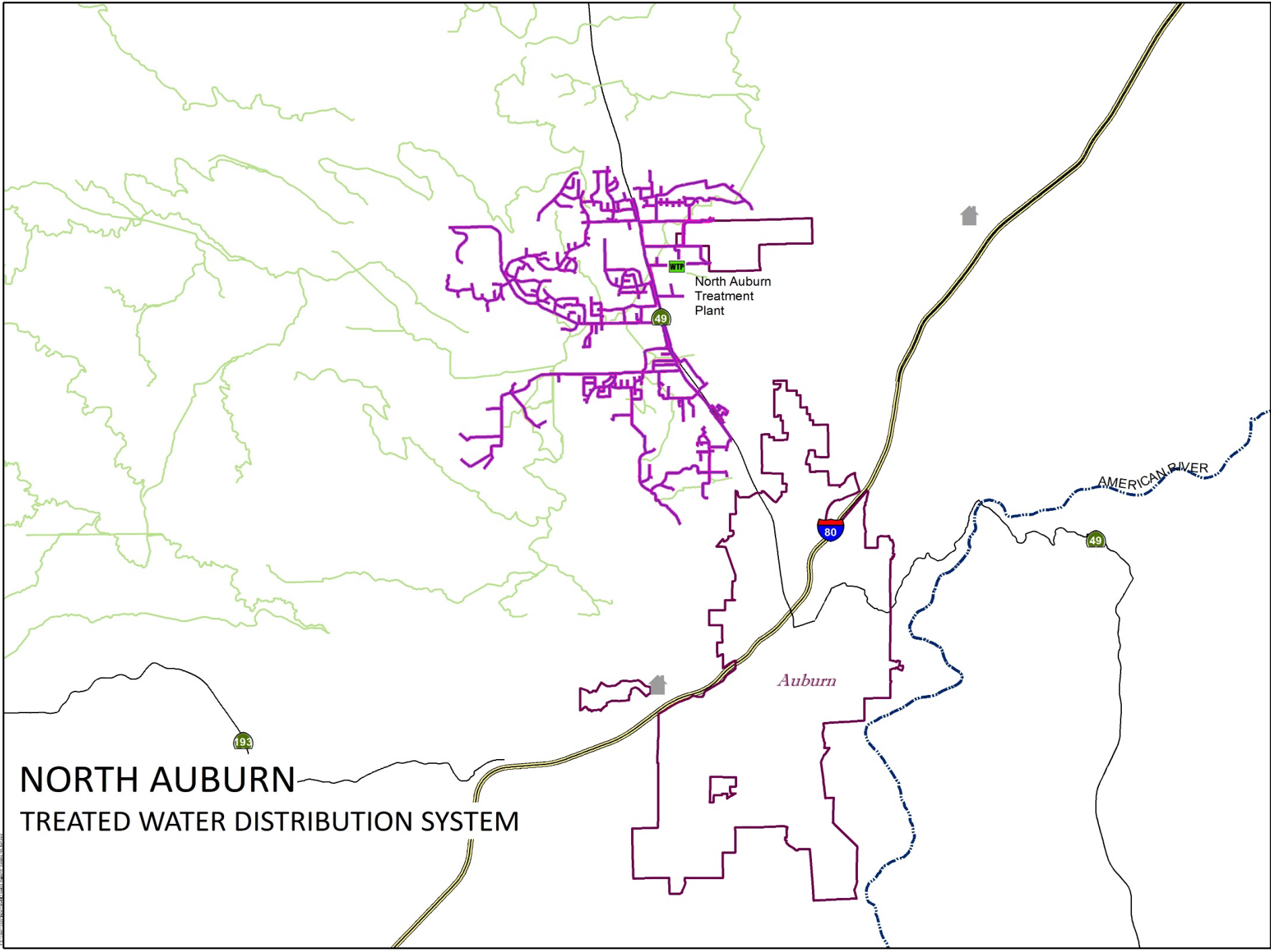




North Auburn WTP



- ▶ Redundant Supply
- ▶ 6 MGD Per Day Capacity
- ▶ Services 2,506 Connections
 - ▶ Equivalent to population of 7,500
- ▶ 49 Miles of Pipeline
- ▶ 4 Pressure zones
- ▶ Intertied with PCWA
- ▶ Produced 661 Million Gallons in 2020



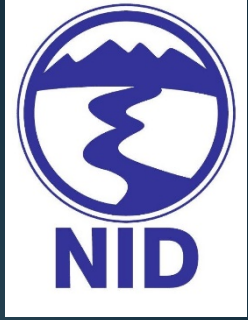
**NORTH AUBURN
TREATED WATER DISTRIBUTION SYSTEM**

North Auburn
Treatment
Plant

AMERICAN RIVER

Auburn

Fiddler Green System Diversion



FIDDLER GREEN SYSTEM

Camp
Far
West

Bear River

Combie

Bear River
Canal

Coon
Creek

Deadmans
Ravine

North Auburn
Treatment
Plant

Rock Creek
Lake

Ophi
Canal

Kemper
Canal

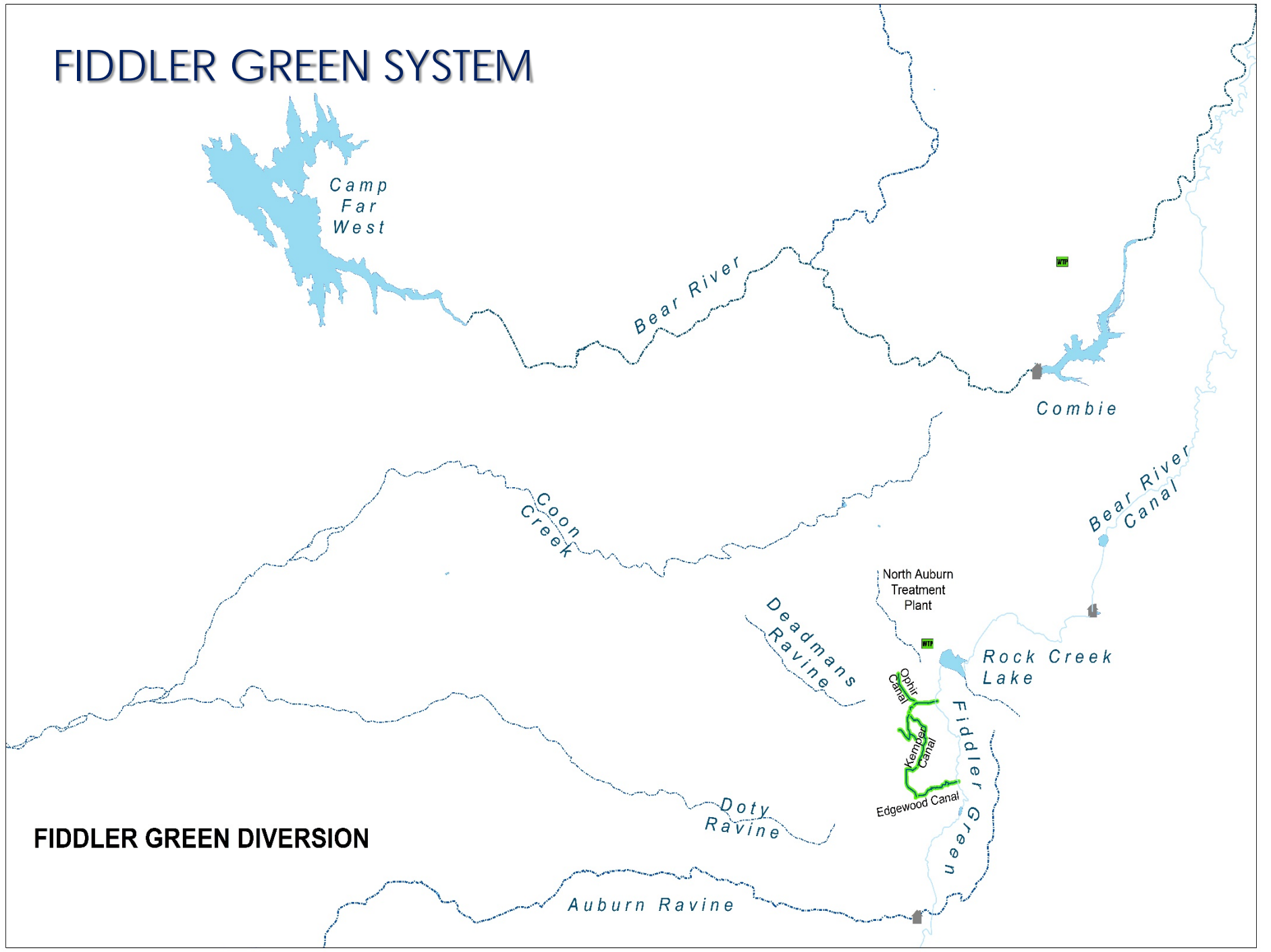
Edgewood Canal

Fiddler
Green

Doty
Ravine

Auburn Ravine

FIDDLER GREEN DIVERSION





Fiddler Green System

Bear River System					
Fiddler Green (Rock Creek)					
Canal	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Fiddler Green				0	0
Ophir	0.8	7.4		2	0
Kemper	0.18	2.5		1	0
East Kemper	0.72			9	0
West Kemper	0.4			59	12
Bean Cullers	0.67			4	1
Edgewood Canal	0.85	1.1		45	19
Total: 7 Canals	3.62	11	0	120	32

Auburn Ravine System Diversion



AUBURN RAVINE DIVERSION



Camp
Far
West

Bear River

Combie

Bear River
Canal

Coon
Creek

Comstock Gladding Canal

Clark Jorstad Canal

Doty North Canal

Deadmans
Ravine

North Auburn
Treatment
Plant

Rock Creek
Lake

Fiddler
Green

Doty South Canal

Hayt Canal

Auburn Ravine

II Canal

Fruitvale Canal

Doty
Ravine

Auburn Ravine 1 Canal

Lincoln Canal

Auburn Ravine

Hemp Hill
Canal

AUBURN RAVINE DIVERSION



Auburn Ravine System Diversions



Auburn Ravine System Diversions

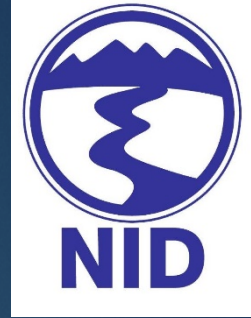


- ▶ Diversions Located Approximately 2 Miles West of Ophir and in the City of Lincoln
 - ▶ Supplied via natural Bear River and Imported Yuba River flows
 - ▶ Flows continuously measured and reported via SCADA
 - ▶ Average flows in 2019 = 161 CFS in summer & 3.8 CFS in winter
 - ▶ No instream flow requirement
 - ▶ Supplies 16 downstream canals covering a distance of 55 Miles
 - ▶ Provides 572 summer irrigation water customers and 34 winter water customers



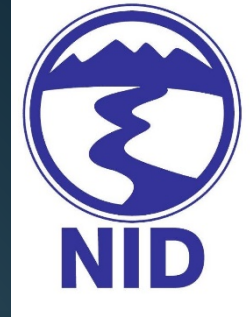
Auburn Ravine System Diversions

Bear River System					
Auburn Ravine					
	Length Miles	Average Flows 2019		No. of Customers	
		Summer	Winter	Summer	Winter
Canal					
Auburn Ravine Nat.				30	0
Auburn Ravine I	3.17	47.6	3.8	65	7
Chevallier Pipe	1.17			38	15
Auburn Ravine II	10.01	23.3		77	4
Lincoln	6.5	3.2		75	4
Musser	2.6	10.2		22	1
Markell	1.9	6.4		25	1
Fruitvale	2.17			35	0
Sohier-Ahart	1.26	1.9		3	0
Hayt	2.72	4		37	2
Doty	0.2	21.2		0	0
Doty Natural				8	0
Doty South	4.91	8.7		36	0
Doty North	8.51	16.4		78	0
Comstock Gladding	3.5	4.2		8	0
Clark Jorstad	4.9	9.1		26	0
Hemphill	1.89	4.3		9	0
Total: 16 Canals	55.41	160.5	3.8	572	34



Water Measurement

Treated Water Metering



- ▶ Switching to Cellular Meter Tech.
- ▶ Approximately 11,288 Badger meters installed as of January 2022



- Existing meters are replaced when components fail

NID Monitoring Page



Welcome Kaycee Strong
NEVADA IRRIGATION DISTRICT



BEACON
Advanced Metering Analytics

At a Glance

Monitor

Analytics

Assets

Users



6,415 meters

Filters

Actions

Tags

- ▶ Continuous Flow Expected
- ▶ Main Use
- ▶ Site

Account

- ▶ Billing City
- ▶ Billing State
- ▶ Billing Zip
- ▶ Class Code
- ▶ EyeOnWater

Location

- ▶ City
- ▶ Cycle
- ▶ Route
- ▶ State
- ▶ Zip

Total 36,599,327 Gallons ⚠

Minute Hour Day Month Year

Today



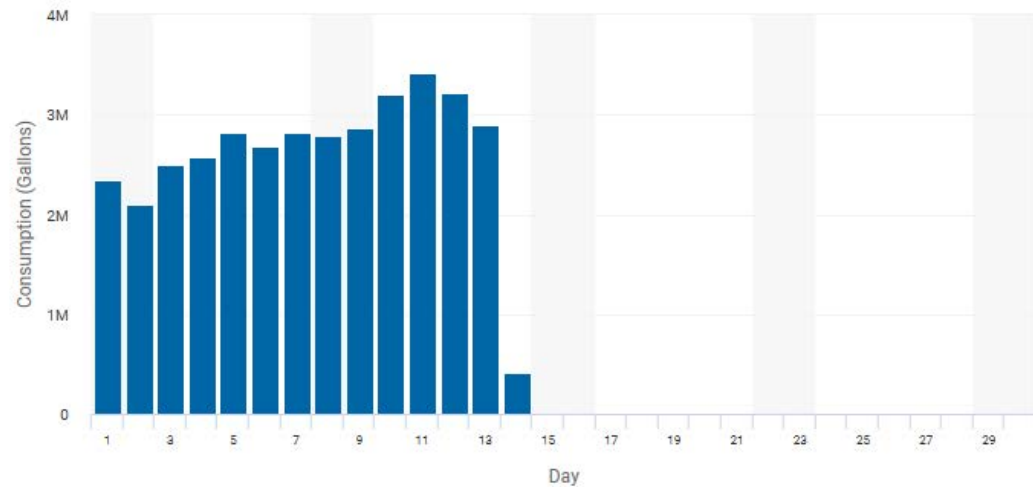
Gallons

Overlays

Print/Download

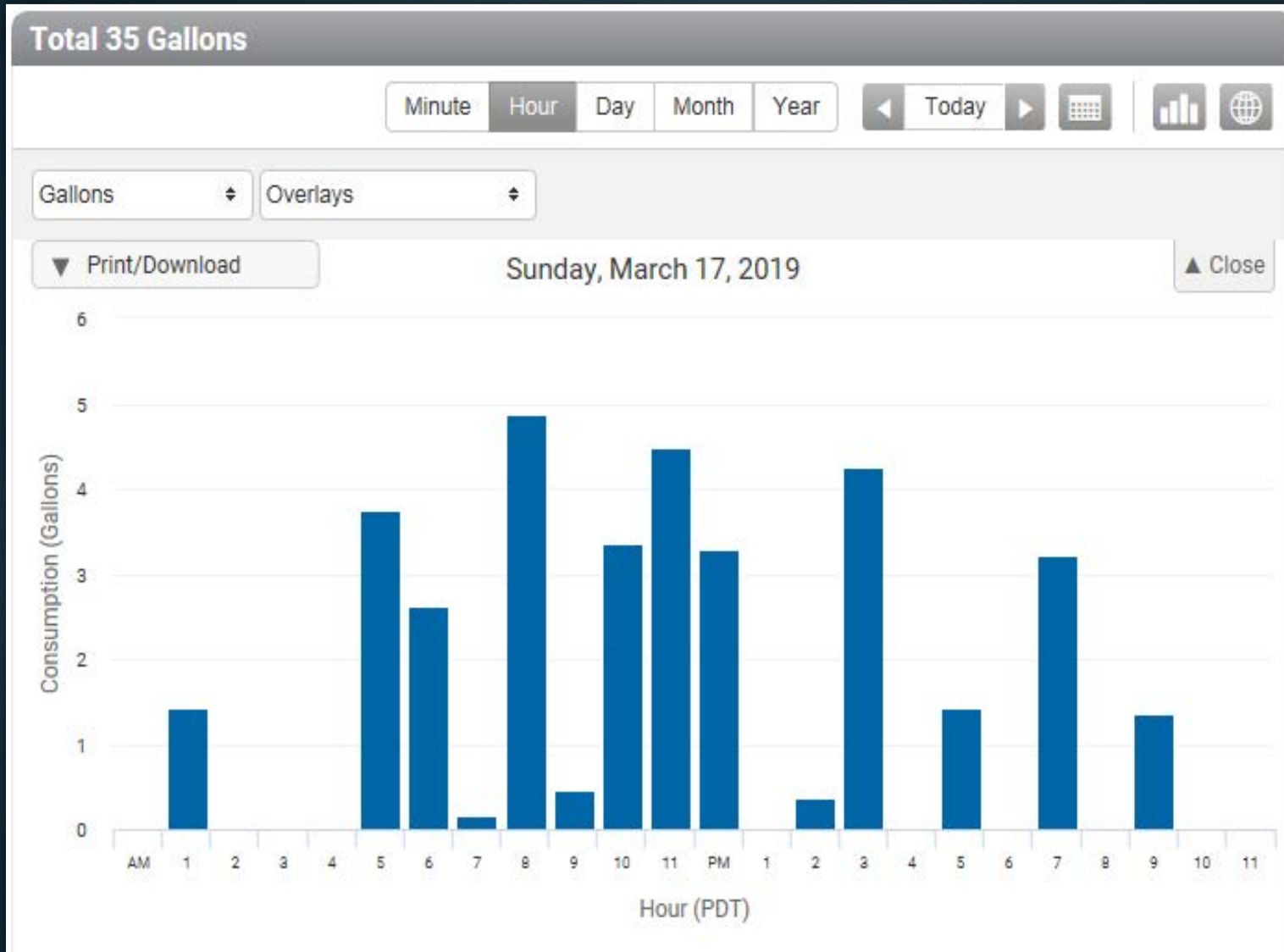
Daily for June, 2019

Close



Total of 6173 Meters

Hour by Hour Water Use

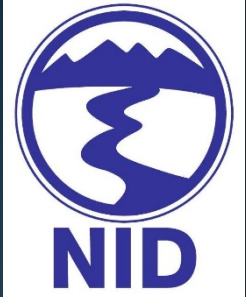


Average = 43 gallons per day

Raw Water Measurement



Raw Water Measurement



Raw Water Measurement



Raw Water Measurement



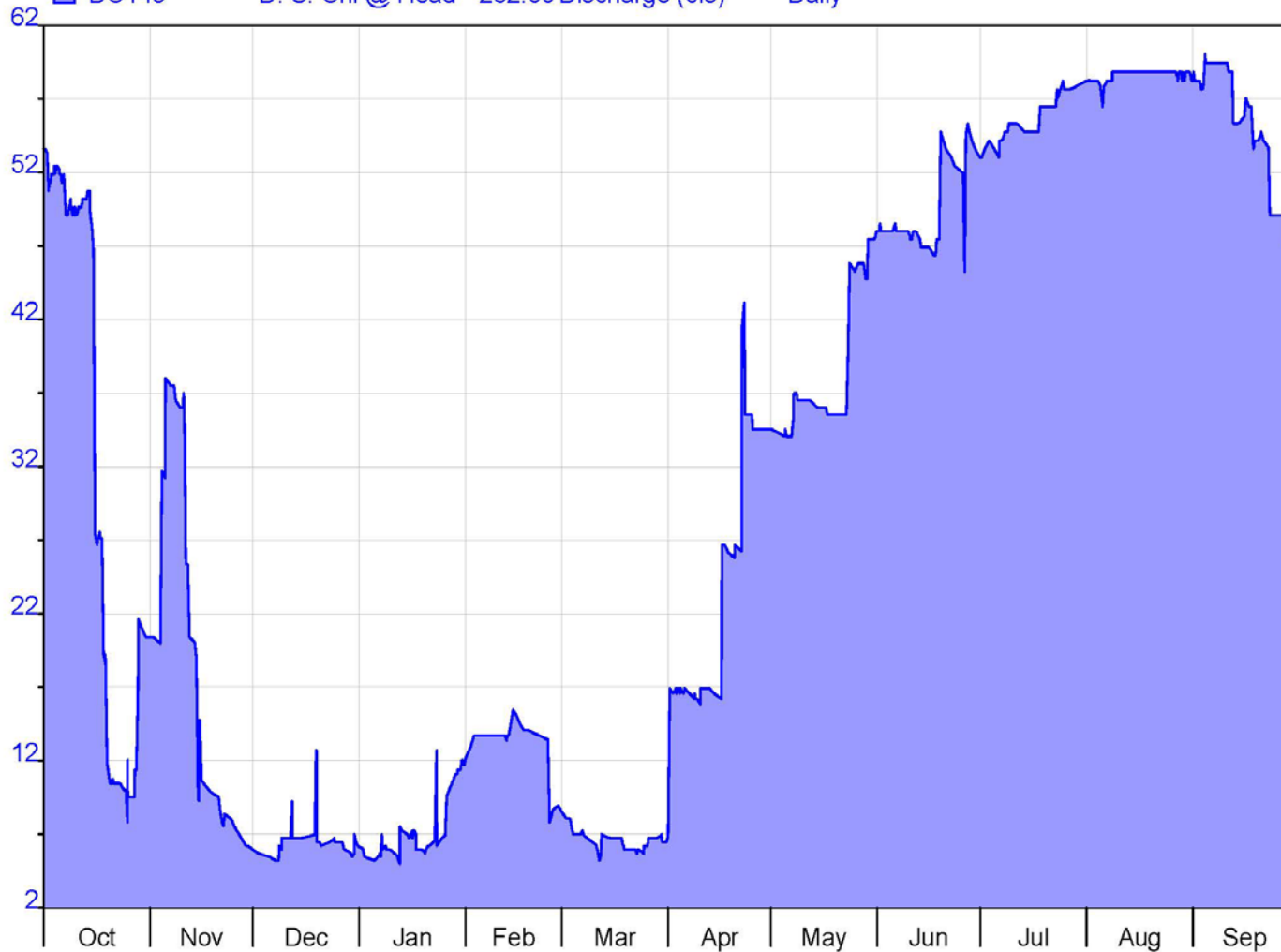
Nevada Irrigation District

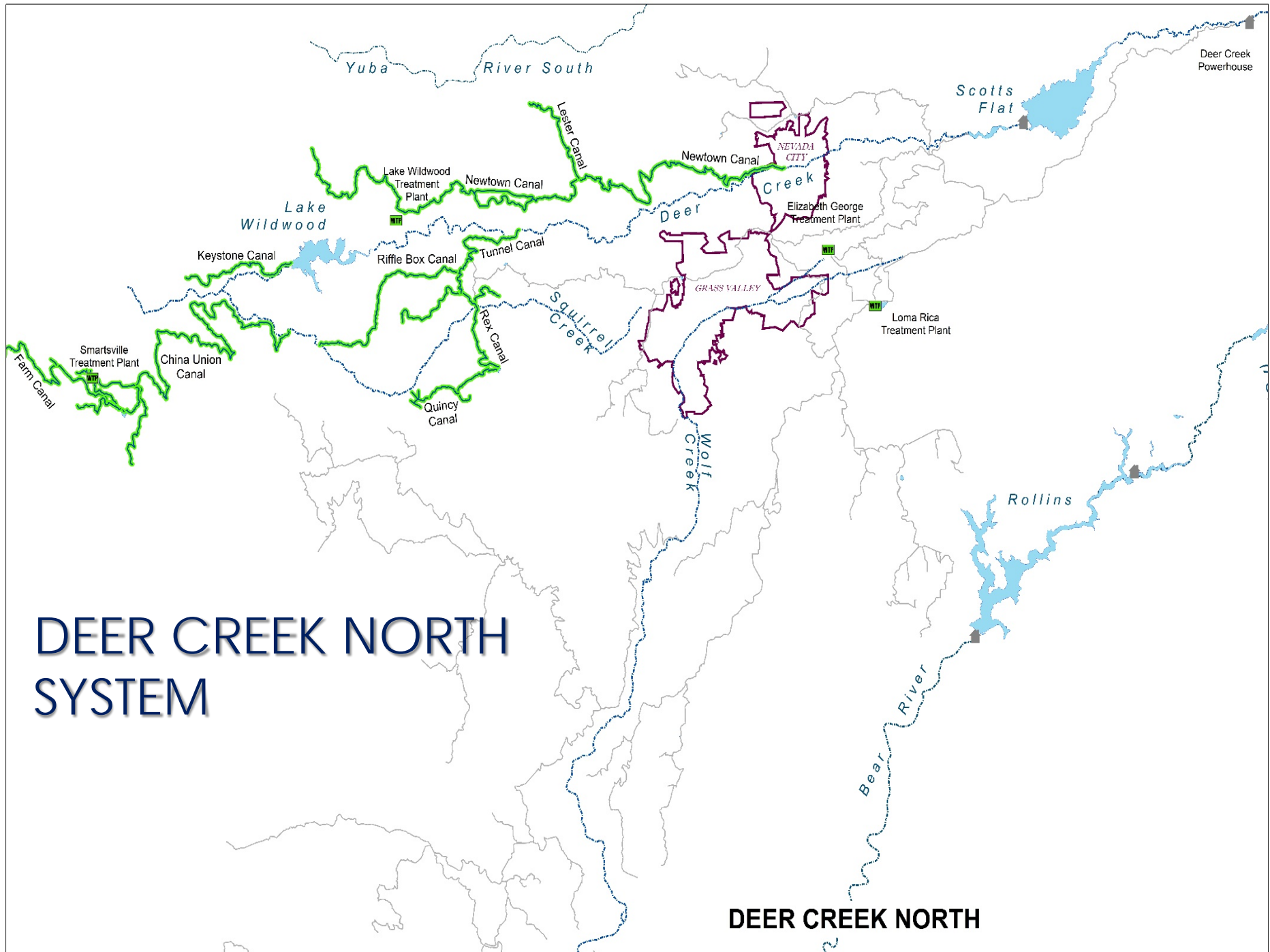
HYPLOT V134 Output 01/05/2022

Period 1 Year 10/01/2018 to 10/01/2019

2018-19

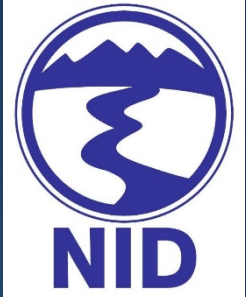
DC145 D. S. Cnl @ Head 262.00 Discharge (cfs) Daily





DEER CREEK NORTH SYSTEM

DEER CREEK NORTH

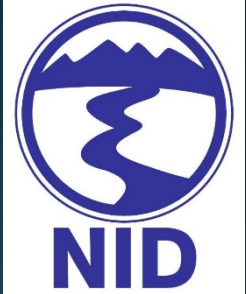


Raw Water Customer Regulation

- ▶ Two types
 - ▶ Water Box
 - ▶ Piped Manifold
- ▶ Each are regulated to an allowable maximum flow based upon purchase allotment

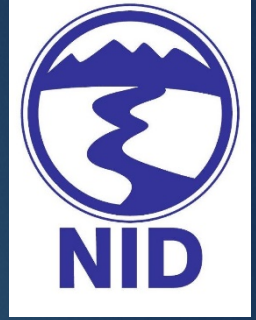


6" Head Pressure Over Orifice





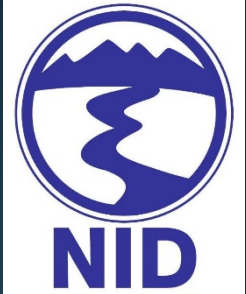
Raw Water Measurement

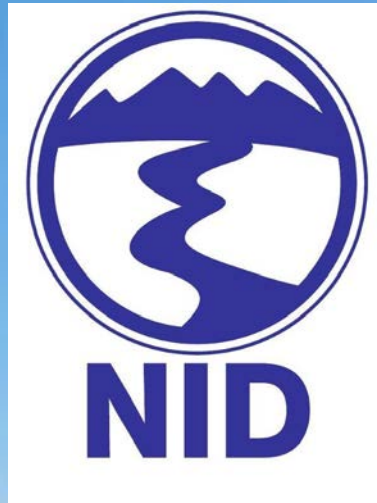


- ▶ Some water box boards have holes on both ends
 - ▶ Summer & Winter Service



Raw Water Manifold Service





QUESTIONS?

NID PLAN FOR WATER WORKSHOP #3
WATER SERVICE AREA OVERVIEW