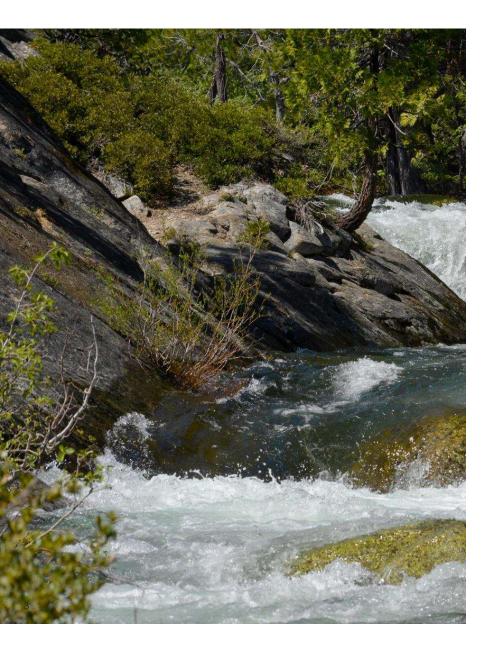


TIME	AGENDA ITEM	PRESENTER
9:00	Welcome	Kyle Ericson, EDWA
9:05	Previous Meeting Recap	BC Team
9:10	Key Definitions	BC Team
9:15	Meeting Objectives	BC Team
9:20	Drought and Water Shortage Resilience Plan (CDRP) Status	BC Team
9:25	How Risk and Vulnerability Assessment Informs Actions	BC Team
9:35	Short- and Long-term actions (several sections)	BC Team
10:15	Task Force Roundtable	Task Force Open Discussion
10:45	Next Steps	BC Team
10:50	Meeting Adjourned	Kyle Ericson, EDWA

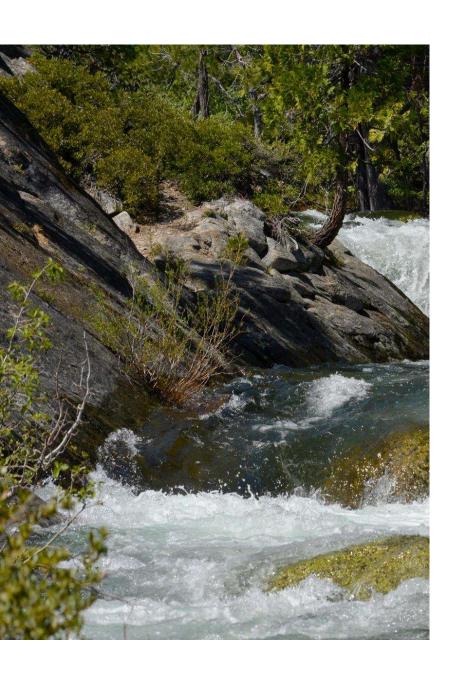




Previous Meeting Recap

- Review of roles, responsibilities, and history leading up to current County Drought and Water Shortage Resilience Plan (CDRP) activities
- Drinking water assistance programs for households on domestic wells or state smalls
 - Rural Communities Assistance Corporation (RCAC)
- EMD Water Well Program & Well Data
 - · Water quality emergency notification plans
 - GIS data for South Tahoe basin wells
- Review of Risk and Vulnerability Assessment
 - · Findings by vulnerability categories, risk factors, region
- Task Force round table discussion
 - SB552 compliance for schools and resources
 - Issues for domestic well owners and reporting considerations





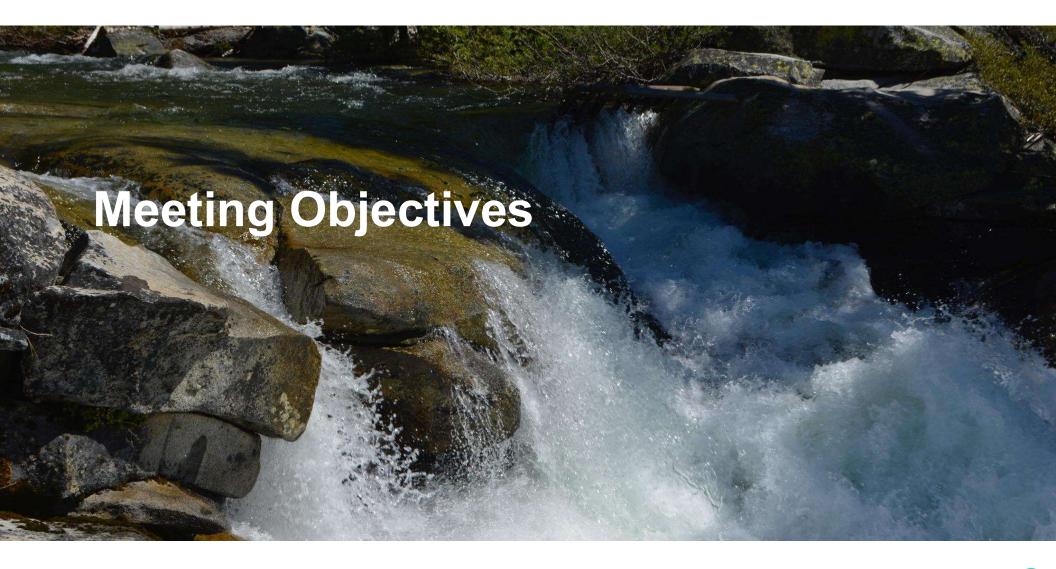
Key Definitions

Short-term Emergency Response Actions

- "Short-term response actions recognize the vulnerability and expeditiously mitigate impacts during the early stages and during ongoing drought conditions and water shortage events." (County Guidance, p.4-1)
- These address immediate impacts of drought (e.g., water shortage and water quality issues)

Long-term Mitigation Actions

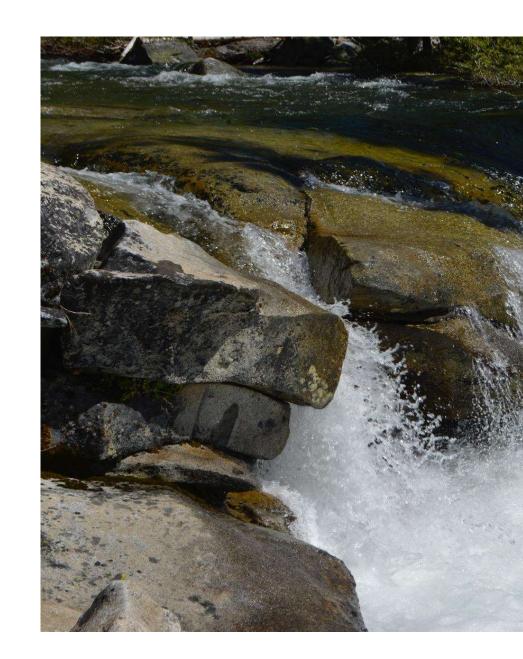
- "actions [that] fall under mitigation, preparation, and capacity building" and are "taken before a drought or water shortage event to reduce potential impacts" (County Guidance, p.5-1)
- These include projects, activities, or processes taken to reduce or eliminate long-term impacts from drought conditions





Meeting Objectives

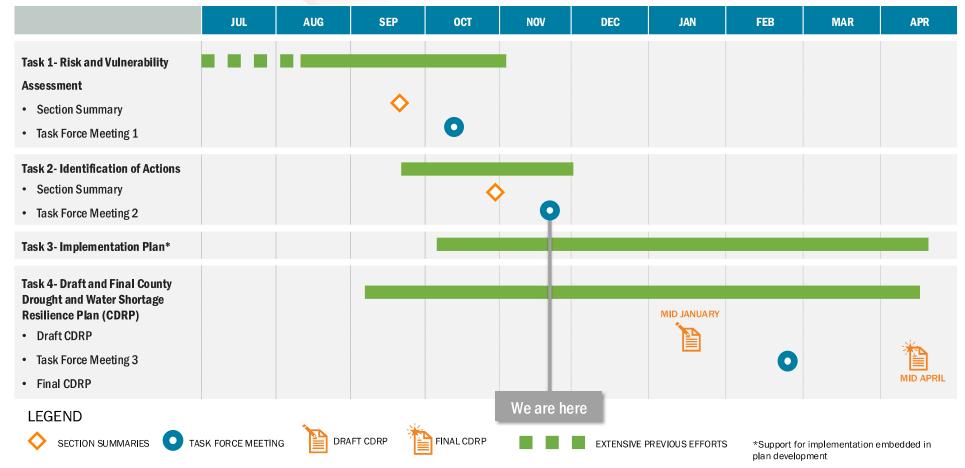
- Communicate how findings from the risk and vulnerability assessment inform short- and long-term actions
- Present and discuss proposed shortand long-term actions
- Receive input via roundtable with Task Force members on proposed short- and long-term actions lists



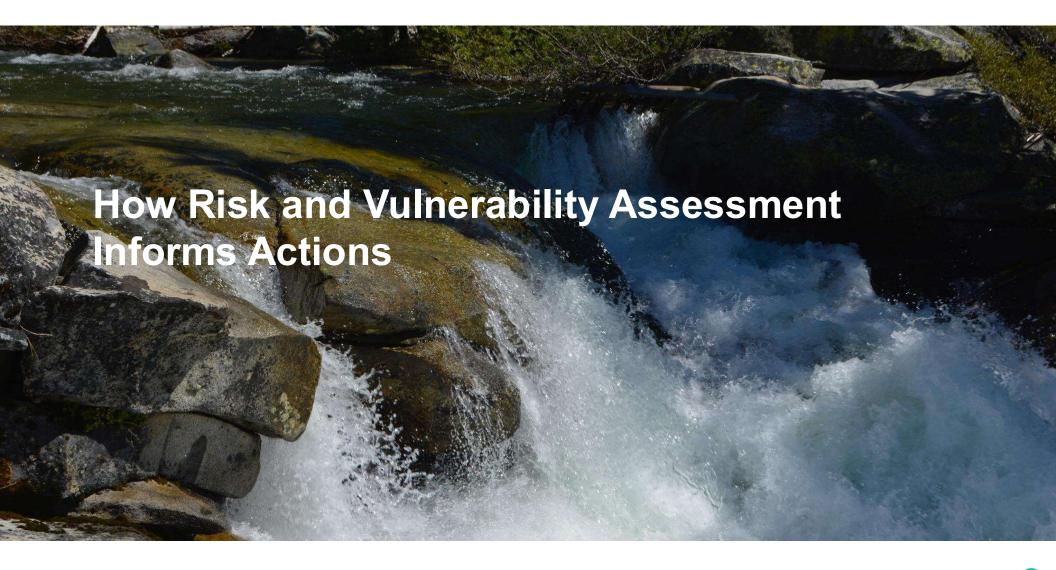




CDRP Development Process (Where We Are)









Approach Overview: Risk & Vulnerability **Assessment to Short- and Long-Term Actions**

Address Risk Factors by Vulnerability Categories

- Environmental
- Infrastructure
- Regulatory
- Social

Short-Term Emergency Response

Actions

Long-Term Mitigation **Actions**

Identify Actions

- Water Supply
- Emergency Potable Water Supply
- Water Conservation
- Planning and Assistance
- Water Supply
- Water System Infrastructure
- Consolidation
- Water Conservation
- Data/Information
- Planning and Assistance
- Education

Align with other Strategies

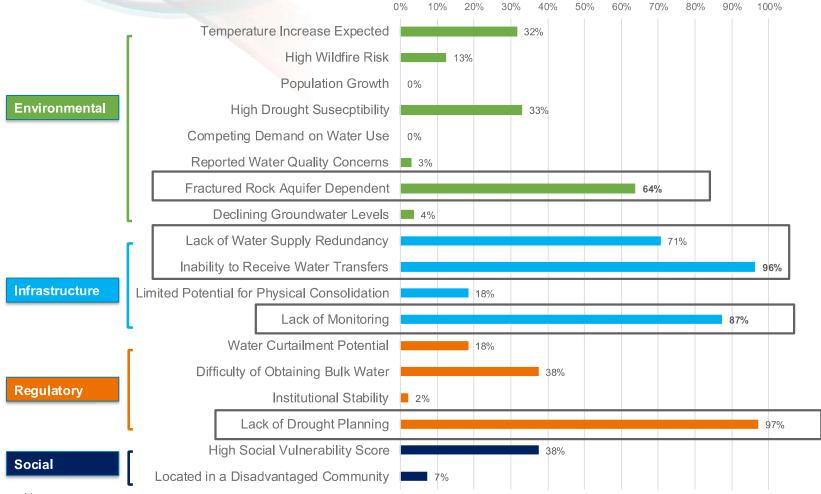
- Lead entities
- System types
- Water Resources Development and Management Plan (WRDMP) Resource Management Strategies (RMS)



All Risk Factors

141 systems → 136 systems

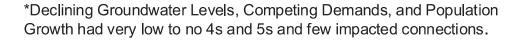
Percentage of 4s and 5s





Environmental Risk Factors

Risk Factors*	Impacts (what should our actions try to address)	Considerations for Potential Actions (location and system types)
Fractured Rock Aquifer Dependent	Uncertainty with availability of supply source	Impacting West Slope areas primarily
High Wildfire Risk	 Infrastructure damage and destruction Water quality degradation Power shutoffs for safety 	 May need infrastructure replacement All areas impacted May need alternative power and/or emergency water supply
High Drought Susceptibility	 Springs and groundwater wells have run dry in past years and could again SWRCB unprecedented curtailments and statewide mandatory conservation 	Impacts half of all State Smalls in County and a school
Temperature Increase Expected	Higher water demands	 Increases low to high from West to East (per WRDMP 2024 figure p. 21) Incorporate impact into supply vs demand forecasting
Reported Water Quality Concerns	Wells down due to water quality issues	 2 residential NC and 2 State Smalls are currently affected AND do not have secondary supply 43 SWS had/have had water quality issues





Infrastructure Risk Factors

Risk Factors*	Impacts (what should our actions try to address)	Considerations for Potential Actions (location and system types)
Lack of Water Supply Redundancy	Temporary loss of water services	County-wide impact71% of SWS rely on a single water source
Inability to Receive Water Transfers	Temporary loss of water services	 County-wide impact except City of Placerville in West Slope and 4 Community Water Systems in Tahoe 96% of SWS do not have interties
Lack of Monitoring (percentage of metered connections)	Water loss due to distribution system leaks	 87% of SWS have no or low metering coverage N/A to SSWS, domestic wells

*Limited Potential for Physical Consolidation removed. The substantial infrastructure needed for SWS to overcome difficult terrain and extensive distance to connect to a major public water purveyor is often cost prohibitive and long-term O&M costs are also likely unaffordable for most SWS.



Regulatory Risk Factors

Risk Factors*	Impacts (what should our actions try to address)	Considerations for Potential Actions (location and system types)
Water Curtailment Potential (whether supply is dependent upon a water right)	May mean reduced availability of water supply	 Consider supply planning and diversification of supply sources where possible Primarily impacting residential connections in West Slope
Difficulty of Obtaining Bulk Water (whether near a major transportation corridor)	Limited ability to receive emergency water supply.	Majority of systems impacted are wells in West Slope
Lack of Drought Planning (whether system has a drought preparedness or water shortage contingency plan)	 Potential delays in actions taken during emergency May miss funding opportunities, risks of temporary loss of water supplies 	Systems to leverage CDRP

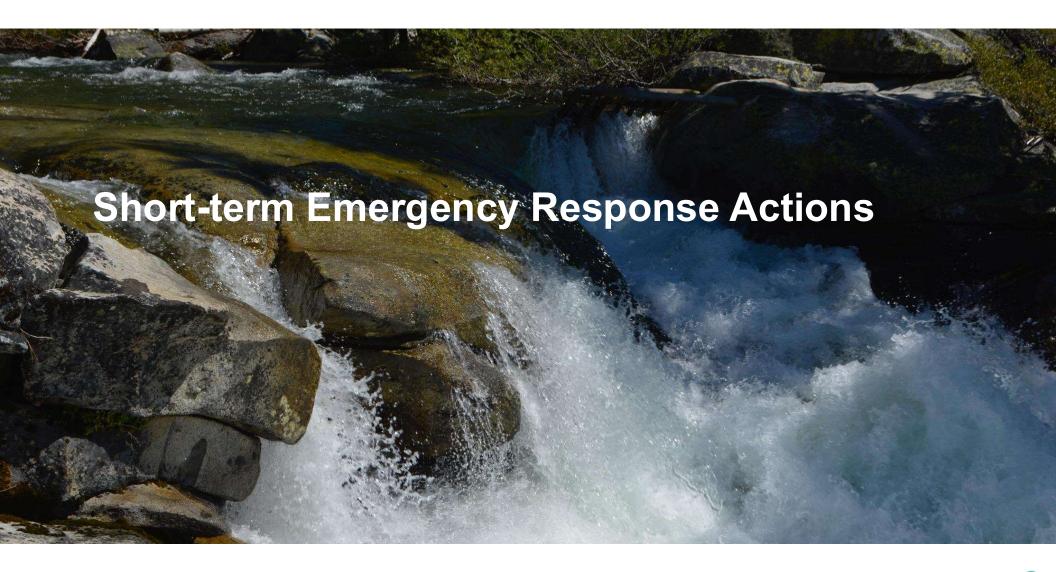
^{*}Institutional Stability removed. Generally low institutional barriers for operators



Social Risk Factors

Risk Factors	Impacts (what should our actions try to address)	Considerations for Potential Actions (location and system types)
Located in a Disadvantaged Community (whether located in a disadvantaged or severely disadvantaged community) → Based on annual median household income	Areas not having adequate financial resources to access or purchase alternative supplies or maintain current supply sources	 Impacts approximately 6,000 connections 12 severely disadvantaged system, all located in Tahoe Basin
High Social Vulnerability Score → Based on age, vehicles access, education	 Areas with low vehicle access may have difficulty obtaining alternative water supplies Areas of impacted elderly population 	Impacts to both West Slope and Tahoe systems with many impacts wells in Tahoe Basin



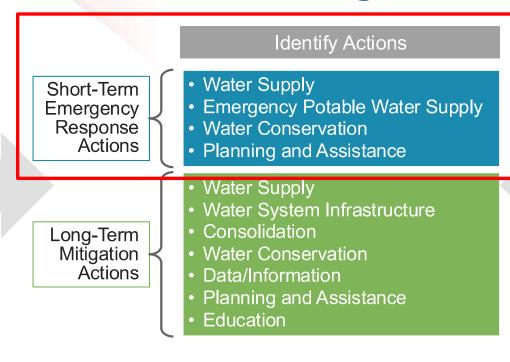




Approach Overview: Risk & Vulnerability Assessment to Short- and Long-Term Actions

Address Risk Factors by Vulnerability Categories

- Environmental
- Infrastructure
- Regulatory
- Social



Align with other Strategies

- Lead entities
- System types
- Water Resources
 Development and
 Management
 Plan (WRDMP)
 Resource
 Management
 Strategies (RMS)



Short-term Action Categories by Lead Entity - DRAFT

	Response Action Category		Action	Lead Entity(ies)
3	Water Supply	S 1	Treat available water from non-regular sources ¹	sws
<u></u>			Maintain (and possibly expand) water filling station locations	EID, GDPUD, County
	Emergency Potable Water Supply	S 3	Water trucking and bulk water hauling	SWS
	water Supply	S 4	Purchase packaged or bottled water	SWS, Domestic Wells
	Water Conservation	S 5	Enact water rationing	SWS
		S6	Use mutual aid agreement with PWA	County, Agency, SWS
n—/2-1		S 7	Implement streamlined well permitting system during drought or water shortage events	County
	Planning and Assistance	S8	More frequent County Drought and Water Shortage Task Force coordination	Agency, County
		S9	Support and assist with funding opportunities for emergency water supply	Agency, County
		S10	Distribute emergency communication templates	Agency, County

<u>Key</u>: El Dorado Water Agency (Agency); County of El Dorado (County); El Dorado Irrigation District (EID); Georgetown Divide Public Utility District (GDPUD); public water agency (PWA); small water system(s)(SWS)



¹When regular sources of water become scarce, residents may suggest the use of alternate water supplies that may have been rejected for use in the past or new water supplies that residents secure on a short-term basis. Approval for use of alternative supply required by the State Water Board or County Public Health Officer for domestic use. (DWR County Drought Resilience Plan Guidebook, Section 4-7).

Short-term Actions by Vulnerability Categories

Response Action Category	ID Action	Environmental	Infrastructure	Regulatory	Social
Water Supply	S1 Treat available water from non-regular sources	0	0	0	
Emergency	S2 Maintain (and possibly expand) water filling station locations	0	0	0	•
Potable Water	S3 Water trucking and bulk water hauling	0	0		
Supply	S4 Purchase packaged or bottled water	0	0	0	0
Water Conservation	S5 Enact water rationing	0	0	0	
	S6 Use mutual aid agreements with Public Water Agency	0	0		
	S7 Implement streamlined well permitting system during drought or water shortage events	0	0	0	
Planning and	S8 More frequent County Drought and Water Shortage Task Force coordination	0	0	•	
Assistance	Support and assist with funding opportunities for emergency water supply			0	
	S10 Distribute emergency communication templates with information, tips, and resources for distribution during drought/water shortage			•	•



Short-term Actions by System Types

Re	esponse Action Category	ID	Action	С	NC	NTN	ssws	Domestic Wells
₽	Water Supply	S1	Treat available water from non-regular sources	X	X	X	X	
	Emergency	S2	Maintain (and possibly expand) water filling station locations	X	X	X	X	X
	Potable Water Supply	S3	Water trucking and bulk water hauling	Х	Х	Х	Х	Х
		S4	Purchase packaged or bottled water	Χ	Х	Χ	Х	Х
	Water Conservation	S5	Enact water rationing	X	X	X	X	
		S6	Use mutual aid agreements with Public Water Agency	X	Х	Χ	Х	
		S7	Implement streamlined well permitting system during drought or water shortage events	X	X	X	Х	X
	Planning and Assistance	S8	More frequent County Drought and Water Shortage Task Force coordination	X	X	X	X	X
	Assistance	S9	Support and assist with funding opportunities for emergency water supply	X	X	X	X	X
		S10	Distribute emergency communication templates with information, tips, and resources for distribution during drought/water shortage	X	X	X	X	Х

²⁰ Key: Community (C), Non-community (NC), Non-transient Non-community (NTN), State Small Water System (SSWS)

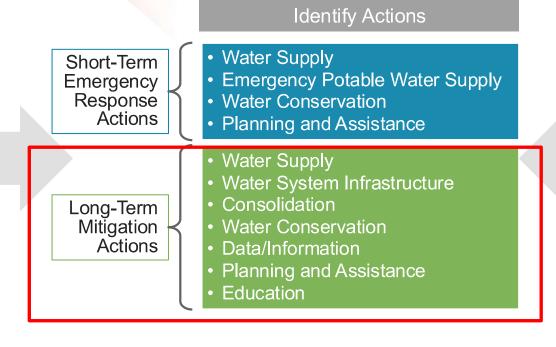




Approach Overview: Risk & Vulnerability Assessment to Short- and Long-Term Actions

Address Risk Factors by Vulnerability Categories

- Environmental
- Infrastructure
- Regulatory
- Social



Align with other Strategies

- Lead entities
- System types
- Water Resources
 Development and
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 Strategies (RMS)



Long-term Mitigation Actions By Lead Entity - DRAFT

Mitigation Action Category	ID Action	Lead Entity(ies)
Water Supply	L1 Drill new wells or deepen existing ones	SWS, Domestic Well Owner
vater Supply	L2 Install water treatment facilities	SWS
	L3 Install reserve tanks	SWS
Motor Cyators	L4 Install emergency intertie with neighboring PWA	SWS
Water System Infrastructure	L5 Update water system infrastructure	SWS
Imastructure	L6 Line/coat canals or other conveyance infrastructure	SWS
	L7 Install standby generator	SWS, Domestic Wells Owner
Consolidation	L8 Pursue physical consolidation	SWS, Domestic Wells Owner
Consolidation	L9 Pursue managerial consolidation	SWS
	L10 Encourage and implement water conservation measures	SWS, County, Agency,
	LTO Encourage and implement water conservation measures	Domestic Well Owner
	L11 Install flow meters	SWS
Water Conservation	L12 Improve leak reporting and response programs	SWS
	L13 Conduct water loss audits	SWS
	L14 Improve efficiency of existing irrigation systems	SWS, Domestic Well Owner
	L15 Implement volumetric rate structure	SWS

Key: El Dorado Water Agency (Agency); County of El Dorado (County); public water agency (PWA); small water system(s)(SWS)



Long-term Mitigation Actions (continued)

Mit	igation Action Category	ID	Action	Lead Entity(ies)
		L16	Install groundwater level monitoring devices	Well Owners
		L17	Establish well monitoring network in the West Slope	Agency, County
	Data/	L18	Develop a county-wide dry well reporting system	Agency, County
~~	\sim	L19	Maintain website with drought resources	Agency, County
_	Information	L20	Update the Agency's online mapping and data portal	Agency, County
		L21	Maintain accurate SWS service area boundaries	SWS
		L22	Update the County permits/forms to collect relevant water- and system-related data	County
		L28	Develop and maintain drought preparedness or Water Shortage Contingency Plans	SWS
		L23	Foster regional collaboration with neighboring counties	Agency, County
		L24	Develop and maintain emergency response, drinking water distribution plan, and emergency communication template	SWS
∩ <u></u>	Planning	L29	Support next update of County's Local Hazard Mitigation Plan	County
	and	L26	Perform an annual drought supply evaluation	SWS
	Assistance	L27	Provide technical assistance for SB 552 compliance	Agency
		L32	Technical assistance support (including State and Fed resources)	Agency
		L33	Support and assist with funding opportunities	Agency
		L34	Develop mutual aid agreement	County, Agency, SWS
		L35	Develop streamlined well permitting system	County
		L30	Collaborate with SAFER's Water Partnership Training Program	Agency
	Education	<u>L31</u>	Collaborate with the Rural Community Assistance Corporation's training/workshops	Agency
	Ladodion	L36	Educate residents about water conservation	Agency, County, SWS
		L25	Educate residents about the resources available during drought/water shortage	Agency, County



Long-term Actions by Vulnerability Categories

ID Action	Environmental	Infrastructure	Regulatory	Social
L1 Drill new wells or deepen existing ones	0	0		
L2 Install water treatment facilities	0	0		
L3 Install reserve tanks		0		
L4 Install emergency intertie with neighboring PWA		0		
L5 Update water system infrastructure		0		
L6 Line/coat canals or other conveyance infrastructure		0		
L7 Install standby generator	0	0		
L8 Pursue physical consolidation	0	0		
L9 Pursue managerial consolidation	0	0		
L10 Encourage and implement water conservation measures	0			
L11 Install flow meters	0	0		
L12 Improve leak reporting and response programs	0	0		
L13 Conduct water loss audits	0	0		
L14 Improve efficiency of existing irrigation systems	0	0		
L15 Implement volumetric rate structure	0	0		
	L1 Drill new wells or deepen existing ones L2 Install water treatment facilities L3 Install reserve tanks L4 Install emergency intertie with neighboring PWA L5 Update water system infrastructure L6 Line/coat canals or other conveyance infrastructure L7 Install standby generator L8 Pursue physical consolidation L9 Pursue managerial consolidation L10 Encourage and implement water conservation measures L11 Install flow meters L12 Improve leak reporting and response programs L13 Conduct water loss audits L14 Improve efficiency of existing irrigation systems	L1 Drill new wells or deepen existing ones L2 Install water treatment facilities L3 Install reserve tanks L4 Install emergency intertie with neighboring PWA L5 Update water system infrastructure L6 Line/coat canals or other conveyance infrastructure L7 Install standby generator L8 Pursue physical consolidation L9 Pursue managerial consolidation L10 Encourage and implement water conservation measures L11 Install flow meters L12 Improve leak reporting and response programs L13 Conduct water loss audits L14 Improve efficiency of existing irrigation systems	L1 Drill new wells or deepen existing ones Install water treatment facilities Install reserve tanks L3 Install reserve tanks Install emergency intertie with neighboring PWA Install emergency intertie with neighboring PWA L5 Update water system infrastructure Install standby generator Install standby generator L7 Install standby generator Install standby generator L8 Pursue physical consolidation Install fow maters L9 Pursue managerial consolidation Install flow meters L11 Install flow meters Install flow meters L12 Improve leak reporting and response programs Install flow meters L13 Conduct water loss audits Install flow meters L14 Improve efficiency of existing irrigation systems Install flow meters	L1 Drill new wells or deepen existing ones L2 Install water treatment facilities L3 Install reserve tanks L4 Install emergency intertie with neighboring PWA L5 Update water system infrastructure L6 Line/coat canals or other conveyance infrastructure L7 Install standby generator L8 Pursue physical consolidation L9 Pursue managerial consolidation L10 Encourage and implement water conservation measures L11 Install flow meters L12 Improve leak reporting and response programs L13 Conduct water loss audits L14 Improve efficiency of existing irrigation systems

	gation Action Category	ID Action	Environmental	Infrastructure	Regulatory	Social		
		L16 Install groundwater level monitoring devices	0	0				
		L17 Establish well monitoring network in the West Slope						
	Data/	L18 Develop a county-wide dry well reporting system		0				
		L19 Maintain County website with drought resources						
	Information	L20 Update the Agency's online mapping and data portal		0	0			
		L21 Maintain accurate SWS service area boundaries		0	0			
		L22 Update the County permits/forms to collect relevant water- and system-related data		0	0			
		L28 Develop and maintain drought preparedness or Water Shortage Contingency Plans	0		0			
		L23 Foster regional collaboration with neighboring counties			0			
					L24 Develop and maintain emergency response, drinking water distribution plan, and emergency communication template	0		0
0—/2	Planning	L29 Support next update of County's Local Hazard Mitigation Plan	0		0			
	· ·	L26 Perform an annual drought supply evaluation	0		0			
0	and Assistance	L27 Provide technical assistance for SB 552 compliance			0			
		L32 Technical assistance support (including State and Fed resources)			0			
		L33 Support and assist with funding opportunities			0			
		L34 Develop mutual aid agreement	0		0			
		L35 Develop streamlined well permitting system	0	0	0			
		L30 Collaborate with SAFER's Water Partnership Training Program	0	0	0			
		L31 Collaborate with the Rural Community Assistance Corporation's training/workshops			0			
	Education	L36 Educate residents about water conservation	0		<u> </u>			
		L25 Educate customers about the resources available during drought/water shortage	0		0			

Long-term Mitigation Actions By System Types

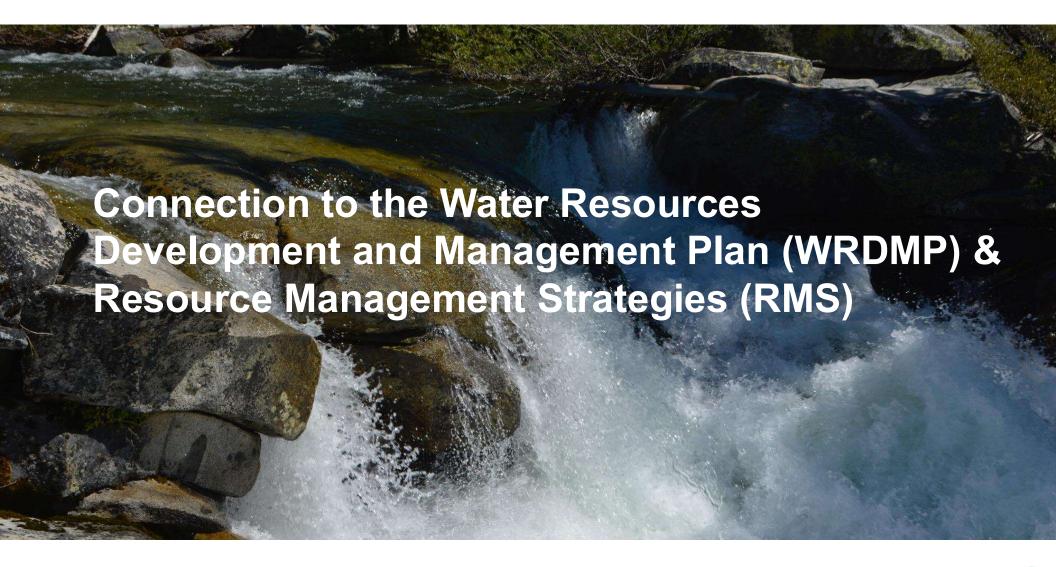
Mitigation Action Category	ID	Action	С	NC	NTN	ssws	Domestic Wells
Water Supply	L1	Drill new wells or deepen existing ones	X		X	X	X
vvaler Suppry	L2	Install water treatment facilities	Х	Х	Х	Х	Х
Water System Infrastructure	L3	Install reserve tanks			Х	Х	Х
	L4	Install emergency intertie with neighboring PWA			Х	Χ	X
	L5	Update water system infrastructure			Х	Χ	X
	L6	Line/coat canals or other conveyance infrastructure			X	Χ	X
	L7	Install standby generator			X	Χ	X
Consolidation	L8	Pursue physical consolidation	X	X	X	X	X
Consolidation	L9	Pursue managerial consolidation	Х	Χ	X	Χ	X
	L10	Encourage and implement water conservation measures	Х	Χ	X	Χ	X
	L11	Install flow meters	Х	Χ	X	Χ	X
Water Conservation	L12	Improve leak reporting and response programs	X	X	X	Χ	X
vvaler Conservation	L13	Conduct water loss audits	Х	Х	X	Χ	X
	L14	Improve efficiency of existing irrigation systems	Х	Х	X	Χ	X
	L15	Implement volumetric rate structure	Х	X	Х	Χ	X



Long-term Mitigation Actions By System Types (continued)

10001000		tion Action tegory	ID	Action	С	NC	NTN	ssws	Domestic Wells
			L16	Install groundwater level monitoring devices	Х	Х	Х	Х	Х
		Data/ Information	L17	Establish well monitoring network in the West Slope	Х		Х	Х	Х
			L18	Develop a county-wide dry well reporting system	Х	Х	Χ	Х	Χ
	-wa		L19	Maintain County website with drought resources	Χ	X	X	Х	Χ
			L20	Update the Agency's online mapping and data portal	Х	Х	Χ	Х	Χ
			L21	Maintain accurate SWS service area boundaries	X	X	Χ	X	Χ
			L22	Update the County permits/forms to collect relevant water- and system-related data	Χ	X	X	X	X
Ī		Planning and Assistance	L28	Develop and maintain drought preparedness or Water Shortage Contingency Plans	Х	Х	Χ	Х	Х
			L23	Foster regional collaboration with neighboring counties	X	Χ			
			L24	Develop and maintain emergency response, drinking water distribution plan, and	Х	X	X	X	Х
				emergency communication template					
	Λ _ /2π		L29	Support next update of County's Local Hazard Mitigation Plan	X	Х	Х	Х	X
			L26	Perform an annual drought supply evaluation	Х	Х	Х	Х	X
			L27	Provide technical assistance for SB 552 compliance	X	X	Х	X	X
			L32	Technical assistance support (including State and Fed resources)	Х	X	X	Χ	X
			L33	Support and assist with funding opportunities	Χ	Χ	Χ	Χ	Χ
			L34	Develop mutual aid agreement	Х	Х	Х	Х	
			L35	Develop streamlined well permitting system	X	X	X	X	X
		Education	L30	Collaborate with SAFER's Water Partnership Training Program	X	Χ	Х	Χ	X
			L31	Collaborate with the Rural Community Assistance Corporation's training/workshops	Х	Х	Χ	Х	Χ
			L36	Educate residents about water conservation	Х	Χ	Χ	Х	Χ
			L25	Educate customers about the resources available during drought/water shortage	X	X	X	X	Х
				W (10) N					

²⁸ Key: Community (C), Non-community (NC), Non-transient Non-community (NTN), State Small Water System (SSWS)





Approach Overview: Risk & Vulnerability Assessment to Short- and Long-Term Actions

Address Risk Factors by Vulnerability Categories

- Environmental
- Infrastructure
- Regulatory
- Social

Short-Term Emergency Response Actions

Long-Term Mitigation Actions

Identify Actions

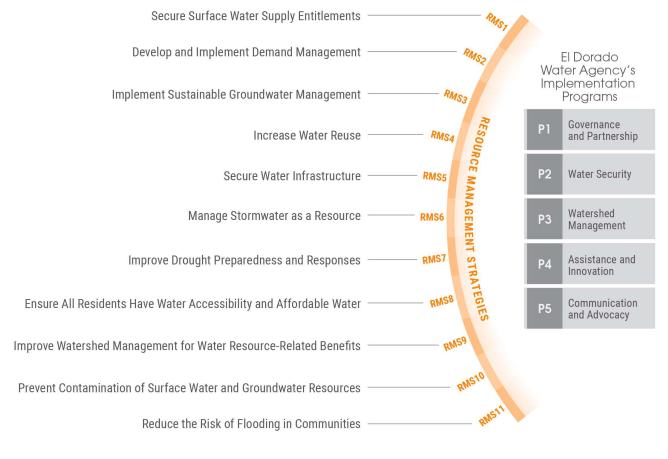
- Water Supply
- Emergency Potable Water Supply
- Water Conservation
- Planning and Assistance
- Water Supply
- Water System Infrastructure
- Consolidation
- Water Conservation
- Data/Information
- Planning and Assistance
- Education

Align with other Strategies

- Lead entities
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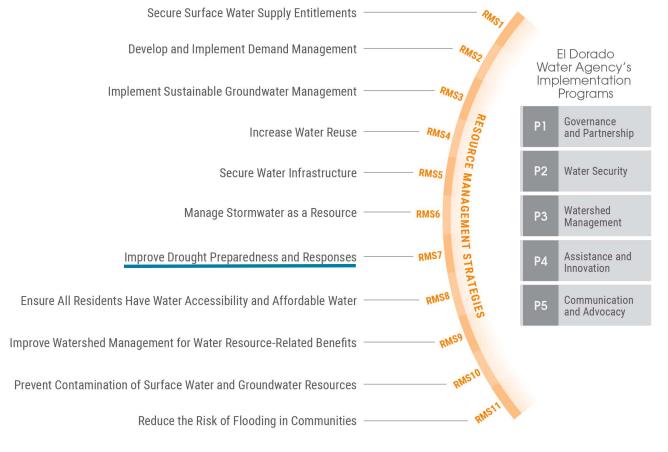
Short- and Long-term Actions are in alignment with the Water Resources Development and Management Plan (WRDMP) Resource Management Strategies (RMS)





Short- and Long-term Actions are in alignment with the Water Resources Development and Management Plan (WRDMP) Resource Management Strategies (RMS)

Key
CDRP Shortterm Action
In Alignment

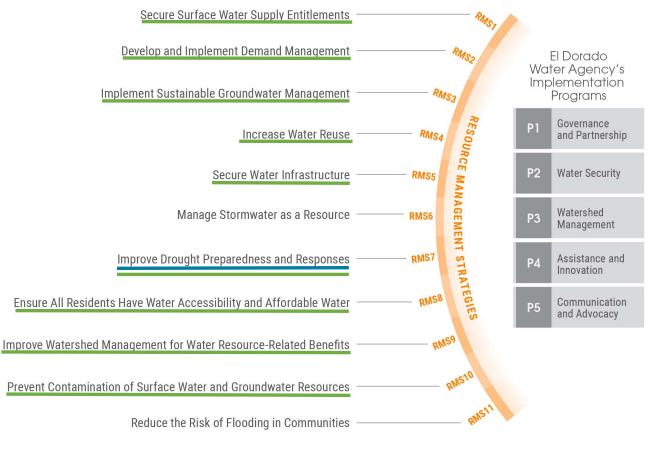




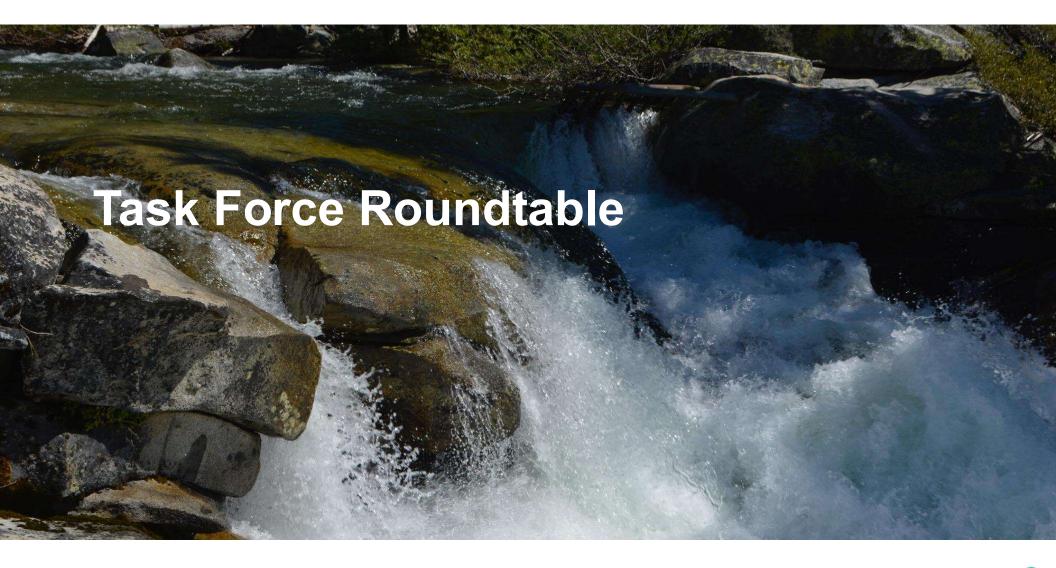
Short- and Long-term Actions are in alignment with the Water Resources Development and Management Plan (WRDMP) Resource Management Strategies (RMS)

Key
CDRP Shortterm Action
In Alignment

Longterm Action in Alignment







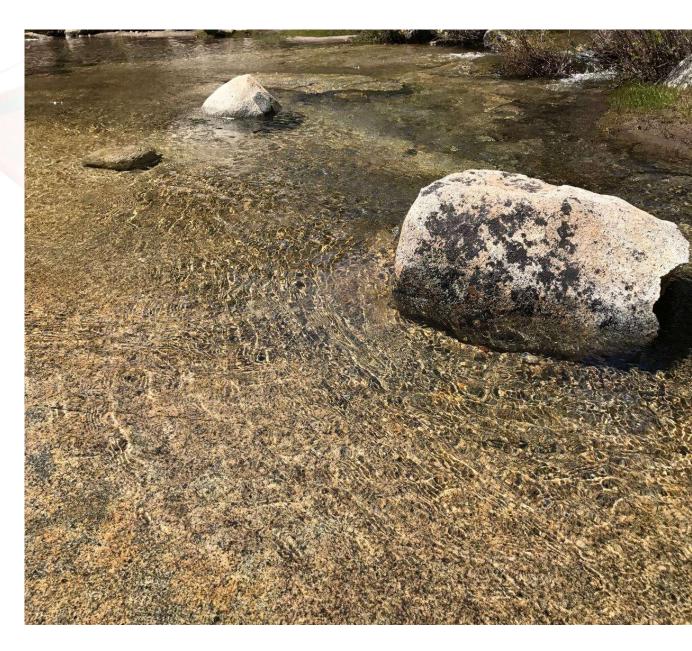


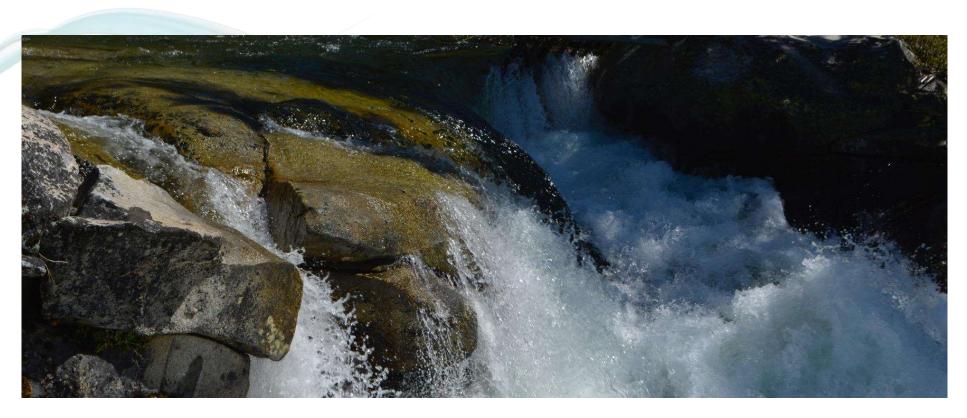
Roundtable

What resonates: Which of these actions resonate with you? Do you think these will be impactful?

Any Adjustments: Are there any actions you feel should be removed or changed?

Potential gaps: Are there other actions we are missing?

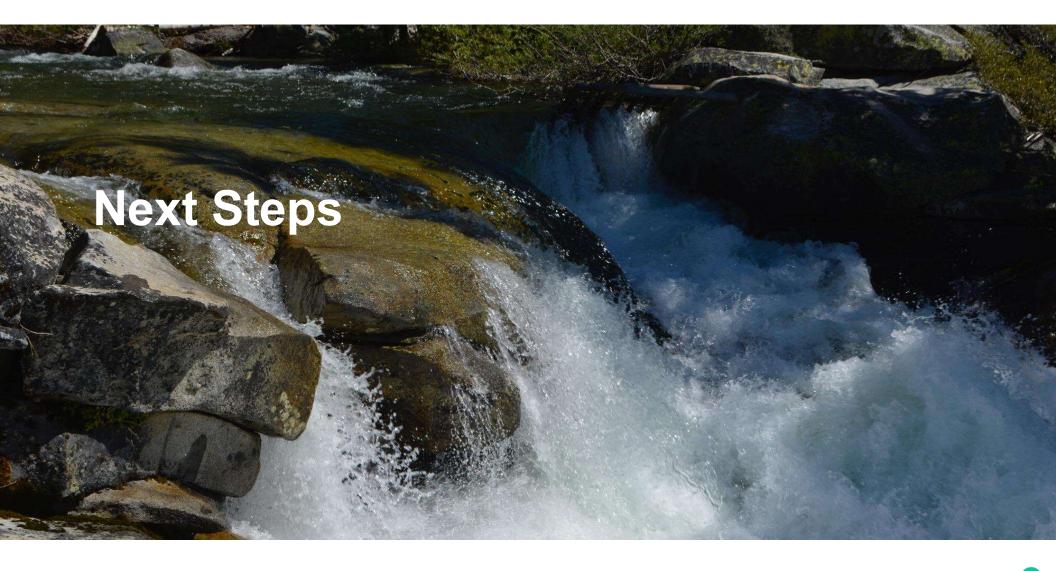




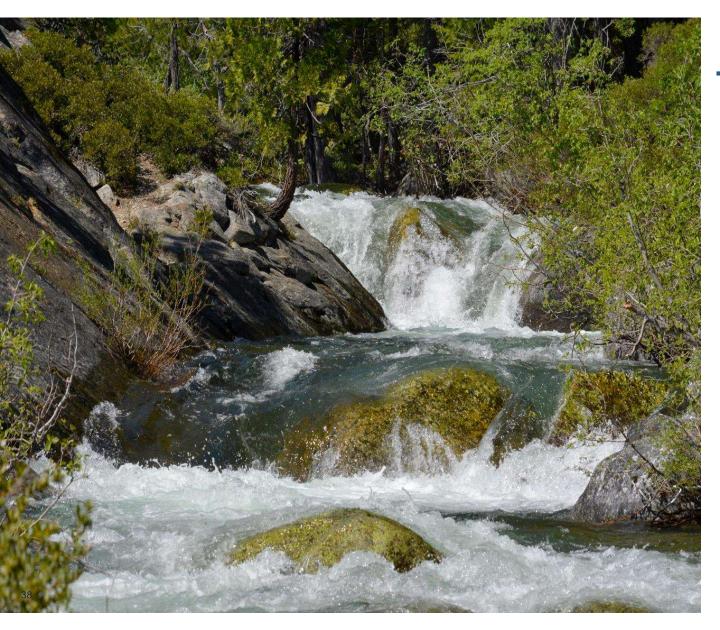
Questions?

Do you have any questions for the CDRP development team?









Next Steps

December

Completion of written sections for CDRP Short- and Long-Term Actions and integration of feedback from TF Discussion

January

Completion and submittal of Draft CDRP (full document) Scheduling and preparation of Task Force Meeting #3

February

Review and discussion for Draft CDRP with focus on Implementation Section



Next Steps: Request for Task Force Input

The team is looking for input on:

- Short-term Emergency Response Actions
- Long-term Mitigation Actions

Request to Task Force members: Please provide feedback by Dec.13th

- Review current short- and long-term actions lists
- Are there any that should be removed/adjusted?
- Do you see any gaps (by system, location, etc.) that need further actions?



Next Steps: Task Force Meeting Schedule

Task Force Meeting	Proposed Date	Meeting Focus
Task Force Meeting 3*	Feb. 27 th (2025)	Draft Drought and Water Shortage Resilience Plan, especially Implementation Plan Section



^{*}Date subject to change with Task Force availability

