



Antelope Valley IRWM

Stakeholder Group Meeting
City of Palmdale



Presenter:
Brian Dietrick, P.E.

January 23, 2019

Agenda

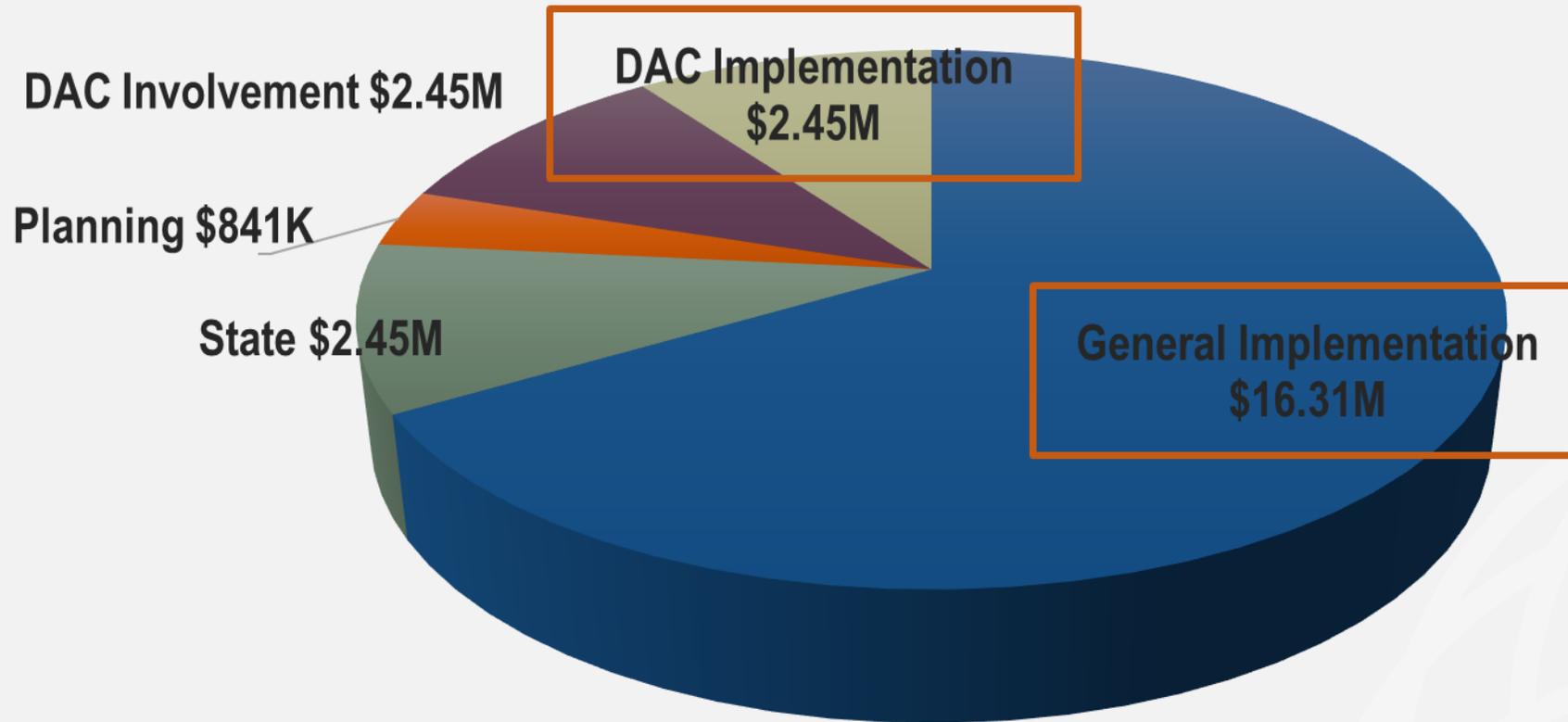
1. Prop. 1 Updates
2. Prop. 1 Implementation Grant PSP Guidelines
3. Project List – Implementation Projects
4. Next Steps



Prop 1. Updates

- Contacted Holly, awaiting response on the following items:
 - Funding Area split between Round 1 & Round 2?
 - Pre-Application Workshop date?
 - Which Regions are applying for Round 1?
 - How much is each Region requesting?

Prop. 1 Implementation Grant PSP – Funding



Total Lahontan Funding Area Prop. 1 Allocation: \$24.5M. The Lahontan Funding Area has approximately \$18.8 million remaining for Implementation Round 1 and 2

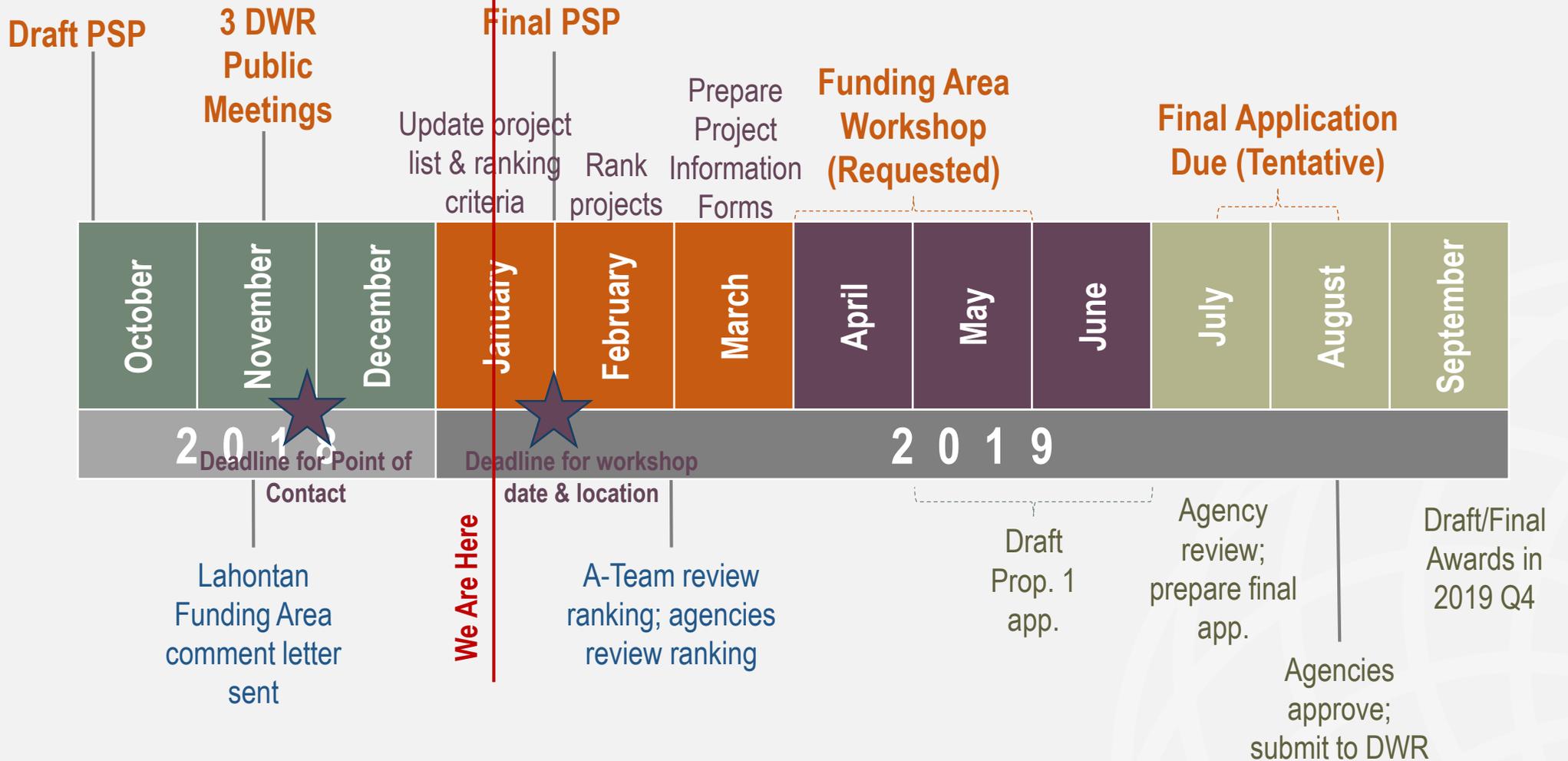
Prop. 1 Implementation Grant PSP – Process

- **Phase 1 – Funding Area Pre-Application Workshops (Mandatory)**
 - February – July 2019
 - Includes DWR, State, and IRWM Region representatives
 - Led by representatives from each IRWM RWMG, applying entities, local project sponsors, DAC, EDAs, and Tribes
 - Present information on overall proposal and each Project
 - Funding Areas to select a date & location for workshop by **February 1st**

Prop. 1 Implementation Grant PSP – Process

- **Phase 2 – Final Application Submittal**
 - Funding Areas/Regions to submit application within 12 weeks of workshop
 - IRWMs need to submit updated IRWM Plan compliant with 2016 Guidelines prior to applying

Prop. 1 Implementation Grant PSP – Schedule



Prop. 1 Implementation Grant PSP – Guidelines

Proposal Eligibility

- **Climate Change:** Proposal must include at least 1 project that directly responds to climate change by mitigating the potential impacts
- **Regional Self Reliance:** Overall proposal must help improve regional water self-reliance with one or more projects

Project Eligibility

1. Addresses “most” critical needs of IRWM region,
2. Is consistent with Statewide Priorities,
3. Has an expected useful life of 15 years, and
4. CEQA/permits will be completed within 6 months of funding award or prior to agreement execution, whichever occurs first

Project List Updates – Implementation Projects

Sponsor	Project Name	Prop. 1 Round 1 Eligibility
Palmdale Water District	Palmdale Regional Groundwater Recharge	High
Palmdale Water District	Littlerock Dam Sediment Removal - Phase 2	High
Rosamond CSD	WWTP Rehabilitation and Groundwater Protection	High
Willow Springs Water Bank	Antelope Valley Water Bank	High
AVEK	SNIP Phase 2	Med
AVEK	South Antelope Valley Intertie Project	Med
AV Resource Conservation District	Antelope Valley Regional Conservation Project	Med
City of Lancaster	Whit Carter Park Recycled Water Conversion	Med
Palmdale Recycled Water Authority	Phase 2 Distribution System	Med
City of Palmdale	Recycled Water Pipeline at Power Plant	Low

Palmdale Regional Groundwater Recharge

- **Project Sponsor:** Palmdale Water District
- **Description:** Deliver water from LACSD No. 20 Palmdale Water Reclamation Plant, blend it with the Palmdale Water District's SWP entitlement, and recharge it into the AV groundwater basin. The basin could supply an additional 10,800 AFY (and up to 40,000 AFY some years).
- **Benefits:** 10,800 AFY water supply, offset Delta water, reduce energy consumption, reduce GHG emissions
- **Costs:** \$48,000,000
- **Schedule:** CEQA complete, 30% design, proposed start date 9/1/2019

Littlerock Dam Sediment Removal - Phase 2

- **Project Sponsor:** Palmdale Water District
- **Description:** Remove up to 1,165,000 cubic yards of sediment that has accumulated in Littlerock Reservoir and contributed to the loss of 500 AF of water supply storage.
- **Benefits:** 500 AFY water supply, improve water quality, offset water supply from the Delta, flood management/protection
- **Costs:** XXX (need estimate for phase 2)
- **Schedule:** Construction for phase 1 underway

Wastewater Treatment Plant Rehabilitation and Groundwater Protection

- **Project Sponsor:** Rosamond CSD
- **Description:** Implement improvements to the existing RCSD WWTP to remedy nitrate and TDS contamination in the groundwater originating from the WWTP evaporation ponds. The project will also increase groundwater supplies through groundwater recharge.
- **Benefits:** 1,500 AFY water supply created, 1.1 MGD water quality improved
- **Costs:** \$12,150,000
- **Schedule:** CEQA almost done, 60% planning, proposed start date FY19-20

Antelope Valley Water Bank

- **Project Sponsor:** Willow Springs Water Bank
- **Description:** Provide 1 million AFY of storage in the AV Basin, recharge 280,000 AFY, and recover 225,000 AFY. The project is a conjunctive use and reservoir reoperation project integrating the SWP reservoir and conveyance system with south-of-Delta groundwater storage.
- **Benefits:** Offset imported water supplies, 1,800 acres of open space, improved water quality, ~320 acres of hiking and walking trails, 293,000 metric tons/year GHG reduction from onsite renewables
- **Costs:** \$343,143,000
- **Schedule:** Planning 1/1/18-2/1/19

SNIP Phase 2

- **Project Sponsor:** AVEK
- **Description:** The proposed pipeline and high lift pumps will allow groundwater to reach all Quartz Hill Water Treatment Plant and blended for THM control; this water will be delivered to the Quartz Hill area. The project will also allow SWP water to reach Boron.
- **Benefits:** Reduced operating costs, improved efficiency, improved reliability
- **Costs:** \$24,346,800 +
- **Schedule:** CEQA underway, design underway, two options for alignment

South Antelope Valley Intertie Project

- **Project Sponsor:** AVEK
- **Description:** Connect AVEK's South Feeder with East Feeder for balancing imported water supplies in the southern portion of AV, provide the transmission of recovered water from proposed Eastside Banking Project, transport groundwater pumped further west to areas of greatest demand, and allow the recovery of water stored in AV's eastside recharge projects.
- **Benefits:** Better distribution for lower THM formation, increased water supply, improved water quality
- **Costs:** \$17,250,000
- **Schedule:** Status - design

Antelope Valley Regional Conservation Project

- **Project Sponsor:** Antelope Valley Resource Conservation District
- **Description:** Provide resources to water districts for rebates to reduce water use, coordinate and lead workshops on resource protection and water conservation, and perform outreach to residents and students to reduce water supply demand. AVRCD will also develop a water conservation garden.
- **Benefits:** Water demand reduction, 2 acres of recreational/open space, dust control, and flood management, GHG reduction through planting trees
- **Costs:** \$985,776
- **Schedule:** Design complete, ready for construction

Whit Carter Park Recycled Water Conversion

- **Project Sponsor:** City of Lancaster
- **Description:** Construction of a recycled water main from the existing regional backbone in Division Street to Whit Carter Park and conversion of the irrigation system to recycled water. This main extension will also make recycled water available to the industrial park between Division Street and Sierra Highway.
- **Benefits:** Offset ~50 AFY of irrigation
- **Costs:** \$815,417
- **Schedule:** No CEQA or design

Phase 2 Distribution System

- **Project Sponsor:** Palmdale Recycled Water Authority
- **Description:** Deliver 500 AF of recycled water from LACSD No. 20 Palmdale Water Reclamation Plant to parks and landscape areas within the City of Palmdale. Project will construct approximately 16,000 linear feet of recycled water main trunk line pipe and 7,800 linear feet of lateral line pipe.
- **Benefits:** New water supply (500+ AF), offset Delta water, reduce GHG emissions
- **Costs:** \$7,500,000
- **Schedule:** CEQA complete 2014

Recycled Water Pipeline at Power Plant

- **Project Sponsor:** City of Palmdale
- **Description:** The project will serve recycled water from Lancaster WRP
- **Benefits:** Identified user of approximately 3,400 AFY of recycled water
- **Costs:** \$48,000,000
- **Schedule:** Design done



Project List Updates – Implementation Projects

Sponsor	Project Name	Prop. 1 Round 1 Eligibility	Total Cost	Requested Funds	CEQA Status	Permits	DAC?	Technical Docs?
Palmdale Water District	Palmdale Regional Groundwater Recharge	High	\$48,000,000	XX	Complete	XX	XX	XX
Palmdale Water District	Littlerock Dam Sediment Removal - Phase 2	High	XX	XX	XX	XX	XX	XX
Rosamond CSD	WWTP Rehabilitation and Groundwater Protection	High	\$12,150,000	XX	Almost done	XX	XX	XX
Willow Springs Water Bank	Antelope Valley Water Bank	High	\$343,143,000	XX	XX	XX	XX	XX
AVEK	SNIP Phase 2	Med	XX	XX	Underway	XX	XX	XX
AVEK	South Antelope Valley Intertie Project	Med	\$24,346,800 +	XX	XX	XX	XX	XX
AV Resource Conservation District	Antelope Valley Regional Conservation Project	Med	\$985,776	XX	XX	XX	XX	XX
City of Lancaster	Whit Carter Park Recycled Water Conversion	Med	\$815,417	XX	Haven't started	XX	XX	No
Palmdale Recycled Water Authority	Phase 2 Distribution System	Med	\$7,500,000	XX	Complete	XX	XX	XX
City of Palmdale	Recycled Water Pipeline at Power Plant	Low	XX	XX	XX	XX	XX	XX

Next Steps

- Continue coordination with Lahontan Funding Area and DWR
- Select projects for Prop. 1 implementation
- Complete project information forms
- Write grant application for Prop. 1 implementation round
- Full IRWM Plan Update



Project List Updates – Conceptual Projects

Sponsor	Project Name
Antelope Valley Duck Hunting Club	Multi-use/Wildlife Habitat Restoration Project
AVEK	Water Supply Stabilization Project (WSSP) – Westside Expansion (Implementation; not shovel ready)
AVEK	Expansion of Eastside Water Bank
AVSWCA	Big Rock Creek Recharge and Recovery Project
City of Lancaster	Lancaster National Soccer Center Recycled Water Conversion (Implementation; not shovel ready)
City of Lancaster	Pierre Bain Park Recycled Water Conversion (Implementation; not shovel ready)
City of Lancaster	Division Street and Avenue H-8 Recycled Water Tank (Implementation; not shovel ready)
City of Lancaster	Lancaster Cemetery Recycled Water Conversion
City of Lancaster	Tertiary Treated Water Conveyance and Incidental Groundwater Recharge of Amargosa Creek Avenue M to Avenue H
City of Lancaster	Amargosa Creek Pathways Project
City of Lancaster	Ecosystem and Riparian Habitat Restoration of Amargosa Creek Ave J to Ave H
City of Palmdale	45th Street East Groundwater Recharge and Flood Control Basin
City of Palmdale	Avenue Q and 20th Street East Groundwater and Flood Control Basin (Q-West Basin)
City of Palmdale	Avenue R and Division Street Groundwater Recharge and Flood Control Basin
City of Palmdale	Barrel Springs Groundwater Recharge and Flood Control Basin
City of Palmdale	Hunt Canyon Groundwater Recharge and Flood Control Basin
City of Palmdale	42nd Street East, Sewer Installation
City of Palmdale	Lower Amargosa Creek Recharge Project
City of Palmdale	Upper Amargosa Creek Recharge and Channelization Project (Implementation; needs SWRP)



Project List Updates – Conceptual Projects

Sponsor	Project Name
LACDPW	Big Rock Creek In-River Spreading Grounds
LACDPW	Little Rock Creek In-River Spreading Grounds
LACWD 40	Implement ET Controller Program
LACWD 40	Ultra-Low Flush Toilet Change-out Program
LACWD 40	Waste Water Ordinance
LACWD 40	Water Conservation School Education Program
LACWD 40	Avenue K Transmission Main, Phases I-IV
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 3
LACWD 40	North Los Angeles/Kern County Regional Recycled Water Project - Phase 4
LACWD 40	Avenue M and 62th Street West Tanks
Leona Valley Town Council	Precision Irrigation Control System
Leona Valley Town Council	Stormwater Harvesting
Little Rock Creek Irrigation District	SWP Turnout Upgrade
Little Rock Creek Irrigation District	SWP Turnout Upgrade
North Edwards WD	Arsenic Contamination Project
Palmdale Water District	New PWD Treatment Plant
QHWD	QHWD Partial Well Abandonment
Rosamond CSD	Fremont Valley Basin Potable Groundwater Well Treatment Project
Road Maintenance Division (LACDPW)	Build a bridge at the existing dip crossing of Mt. Emma Road @ Littlerock Creek
Road Maintenance Division (LACDPW)	Flooding issues Avenue P-8, between 160th and 170th Street East
Road Maintenance Division (LACDPW)	Flooding issues Avenue W, near 133rd Street East