



San Bernardino Valley Water Conservation District

Helping Nature Store Our Water

OPERATIONS COMMITTEE AGENDA

Tuesday, May 21, 2024 – 9:00 a.m.

Any member of the public wishing to listen to or participate in the meeting can join via Zoom:

Call in (669) 900-6833, Meeting ID: 869 3816 1542

To join the Zoom meeting on <https://us02web.zoom.us/j/86938161542>

While the District makes every attempt to follow all guidance re COVID-19 safety protocols, the District cannot assure in-person attendees that they will not be exposed to COVID-19 or persons who have been so exposed, and attendees are advised to exercise caution in limiting their own incidences of exposure, particularly those who may be in groups at higher risk of infection, or serious symptoms of COVID-19 if infected.

Note: Copies of staff reports and other documents relating to the items on this agenda are on file at the District office and are available for public review during normal District business hours. New information relating to agenda topics listed, received, or generated by the District after the posting of this agenda, but before the meeting, will be made available upon request at the District office and in the Agenda Package on the District’s website. It is the intention of the San Bernardino Valley Water Conservation District to comply with the Americans with Disabilities Act (ADA) in all respects. If you need special assistance with respect to the agenda or other written materials forwarded to the members of the Board for consideration at the public meeting, or if as a participant at this meeting you will need special assistance, the District will attempt to accommodate you in every reasonable manner. Please contact Athena Laroche at (909) 793-2503 at least 48 hours prior to the meeting to inform her of your particular needs and to determine if accommodation is feasible. Please advise us at that time if you will need accommodations to attend or participate in meetings on a regular basis.

CALL TO ORDER

1. PUBLIC PARTICIPATION

Members of the public may address the Board of Directors on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) Section 54954.2 of the Government Code.

2. ADDITIONS/DELETIONS TO AGENDA

Section 54954.2 provides that a legislative body may take action on items of business not appearing on the posted agenda under the following conditions: (1) an emergency situation exists, as defined in Section 54956.5; (2) a need to take immediate action and the need for action came to the attention of the District subsequent to the agenda being posted; and (3) the item was posted for a prior meeting occurring not more than five calendar days prior to the date action is taken on the item, and at the prior meeting the item was continued to the meeting at which action is being taken.

3. APPROVAL OF MEETING MINUTES FROM APRIL 17, 2024

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BOARD OF DIRECTORS

Division 1:
Richard Corneille
Division 2:
David E. Raley

Division 3:
Robert Stewart

Division 4:
John Longville

Division 5:
Melody McDonald

GENERAL MANAGER

Betsy Miller

4. **PERC STATUS REPORT NO. 18**
 - A. **PRELIMINARY ESTIMATED COSTS**
 - B. **COST TRACKING AND BUDGET WORKSHEET**
 - C. **EXPEDITED PROJECT**
5. **MENTONE SHOP VERBAL UPDATE**
6. **NEXT QUARTERLY MEETINGS**
 - A. **AUGUST 6, 2024**
 - B. **NOVEMBER 5, 2024**
7. **ADJOURN MEETING**

Committee Members:

Richard Corneille, Chair
Robert Stewart

Alternate:

Melody McDonald

SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT
MINUTES OF THE OPERATIONS COMMITTEE MEETING
APRIL 17, 2024
9:00 A.M.

Chairman Corneille called the Operations Committee meeting to order at 9:00 A.M. The meeting was held as a hybrid meeting with in-person and Zoom/teleconference attendance.

OPERATIONS COMMITTEE MEMBERS PRESENT:

Richard Corneille, Chairman
Robert Stewart, Vice President

STAFF PRESENT:

Betsy Miller, General Manager
Manuel Colunga, Field Supervisor
Katelyn Scholte, Principal Engineer
John Lambie, Consulting Chief Engineer and Hydrogeologist
Laura Torres, Assistant Engineer
Athena Laroche, Administrative Specialist

OTHERS PRESENT:

None

1. PUBLIC PARTICIPATION

There was no public present.

2. ADDITIONS/DELETIONS TO AGENDA

There were none.

3. APPROVAL OF MEETING MINUTES FROM FEBRUARY 6, 2024

It was moved by Vice President Stewart and seconded by Director Corneille to approve the meeting minutes from February 6, 2024 as presented. The motion carried 2-0, with all directors present voting in the affirmative.

Vice President Stewart: Yes

Director Corneille: Yes

4. FIELD OPERATIONS UPDATE PRESENTATION

Mr. Colunga introduced this item for discussion. The Enhanced Recharge Project was reviewed, including construction of seven new drop structures. He indicated that the new basins are operating well. Mr. Colunga reviewed facility trespassing, noting that several locks were vandalized using super glue, and one of the gates was cut. Michael Guizar, Field Operations Specialist, met with multiple agencies, including

the City of Redlands, the City of Highland, the Redlands Police Department, and the Highland Sheriff, to perform outreach efforts for persons experiencing homelessness. The Committee expressed their appreciation of Mr. Guizar's efforts. Field staff continue to manage invasive plants by spraying herbicides. Mr. Colunga reviewed Mentone Shop construction support performed by field staff. Safety of Mill Creek overflow structures was reviewed, including treatment of grasses and weeds around the overflow structures and removal of debris and other potentially hazardous materials.

5. MENTONE SHOP IMPROVEMENTS CONSTRUCTION VERBAL UPDATE

Ms. Scholte introduced this item for discussion. She indicated that the contractor is installing rebar and anchors for the building. The building inspector is scheduled for Monday, and the slab is scheduled to be poured on Tuesday. The fire hydrant is functional, and field staff provided significant support by delivering soil for backfill in order to meet compaction requirements for the building pad. The building is scheduled for delivery in three weeks, which lines up with the twenty-eight day cure period for the concrete.

6. ENHANCED RECHARGE CONSTRUCTION VERBAL UPDATE

Ms. Scholte introduced this item for discussion. She noted that 144 CFS was picked up on Monday; basins G, H and 17 are online in addition to the previously completed basins. Mr. Colunga said that the newly constructed canal percolates a significant amount of water. Vice President Stewart asked if there was a particular pond that would take the majority of the silt. Ms. Scholte indicated that the majority of the sediment is trapped in Basin 1A (sedimentation basin), which is functioning well. Director Corneille asked if they are taking quality measurements to keep track of functionality. Ms. Scholte stated that the contractor, Nate Scheevel, is tracking these data.

7. PRIORITIZED MAINTENANCE LIST FOR FY25

Ms. Miller introduced this item for discussion. She indicated that staff will conduct full maintenance needs surveys of all District facilities, with our focus currently on the Mill Creek facilities. She said that the maintenance survey of the Santa Ana basins is planned following completion of Enhanced Recharge project construction. Laura Torres, Assistant Engineer, has reviewed the Mill Creek facilities and prepared a prioritized list of recommendations for FY25.

Ms. Torres stated that she has collaborated with field staff to complete the maintenance survey and identify priority maintenance items based on survey results. Staff has completed a detailed walk-through of the Mill Creek Groundwater Recharge Facility; noted areas of concern regarding field safety; prioritized maintenance based on factors such as safety, recharge rate, time cost, etc.; and have held preliminary discussions of Santa Ana River Recharge Facility maintenance needs. Ms. Torres reviewed the items that are prioritized using the Mill Creek Recharge Facility Maintenance Map that was provided as a handout. It was noted that there are a number of culverts that need to be replaced and some areas where a culvert is needed. Staff indicated that field staff may be able to install culverts in some areas, but there may be others that require a contractor. Ms. Torres stated that we are looking into additional training for field staff to be able to perform the culvert installation and replacements independently. Ms. Scholte noted that we have budgeted funds to bring in a geotechnical firm to assist in materials testing to ensure appropriate compaction. She noted that field staff is coordinating closely with our natural resources team to perform clearance and monitor sites. Ms. Miller indicated that today's presentation is specific to the FY25 budget,

and this is the first look. that staff will bring a prioritized maintenance plan to the Committee once they have concluded their analysis of existing and future needs. She noted that these maintenance needs reflect the last few years being some of the highest rainfall years in District history, making a full analysis of existing and future needs essential. Director Corneille spoke in support of the comprehensive analysis being performed by staff. Ms. Scholte said that some maintenance needs result from the District's aggressive recharge approach that was implemented approximately five years ago at Mill Creek. Ms. Torres said that the cleaning of basin 10 and D-Dike at SAR is proposed for this fiscal year. She said that staff also proposes cleaning of basins 1, 2, 13, 42-53 and compact west end of basin 22 to improve safety and improve overflow safety at Mill Creek for the FY25 budget. Discussion on maintenance ensued. A long-term prioritized maintenance plan will be prepared following additional field surveys at Mill Creek and detailed field surveys at Santa Ana River following Enhanced Recharge construction, with close coordination during development of the Enhanced Recharge Operations Manual.

8. BASIN 10 CLEANING BUDGET AMENDMENT FY24

Ms. Miller said that the District may elect to perform maintenance on basins 10 18 in May or June, prior to the end of the current fiscal year. She noted that this work was initially planned for FY25 but there is an opportunity to complete the work while the area is dry for Enhanced Recharge Project construction, decreasing the time that our recharge capacity is limited. Ms. Scholte said that once basins C, D, and E are completed, Valley Municipal will begin the new connections to the District's existing basins. In order to install the new connections, they will need to dry down basins 10, 11, 12, 13, and 14, which is planned for June. Staff are soliciting bids to determine the costs of the cleaning. If the Committee supports this approach, staff will present an action for a contract and budget adjustment to the Board. Ms. Miller said that the cost for the cleaning would be allocated to GL 5050 Basin Cleaning. The Committee concurred with the staff's recommendation.

9. COUNTY VECTOR CONTROL CONTRACT EXTENSION

Ms. Miller introduced this item for discussion, reviewing the agreement's history. The agreement for Vector Control with the County of San Bernardino Department of Public Health is set to expire this year. The County reached out to the District to obtain their interest in extending the agreement through 2029 at an average cost of \$53,274 per year. Costs for this work are included in the proposed budget. Since the initial contract was approved, the District has received no complaints regarding vector issues.

10. ZANJA RESTORATION PLAN VERBAL UPDATE

Ms. Miller said that there was a call to discuss the potential of a Feasibility Study and communication with key stakeholders a month ago. Director Corneille asked if ESRI was involved. Ms. Miller indicated that the local participants have reached out to Mr. Dangermond. Vice President Stewart said Loma Linda included the Zanja in its trails plan. Ms. Miller has reached out to the Redlands Conservancy. Ms. Scholte said that Crafton Water Company utilizes the upper portion of the Zanja for deliveries and stated that the lower portion is used for flood control.

11. GRANT APPLICATION FOR PLANNING AND DESIGN FOR MILLE CREEK PERC PROJECT

Ms. Miller introduced this item for discussion. Staff is moving forward with the WaterSMART Planning and Project Design Grants for FY23 and FY24 for the Mill Creek PERC Project. This would allow the

District to obtain up to \$400,000 in cost recovery for the existing Q3 contract for the Mill Creek PERC Project. The application is due by May 21.

12. NEXT QUARTERLY MEETINGS

The next quarterly meetings are May 21, August 6 and November 5.

13. ADJOURN MEETING TO FIELD TOUR

There was no further business, and the meeting adjourned at 10:20 A.M.

It was moved by Director Corneille and seconded by Director Stewart to adjourn. The motion carried 2-0, with all directors present voting in the affirmative.

Vice President Stewart: Yes

Director Corneille: Yes



San Bernardino Valley Water Conservation District

Helping Nature Store Our Water

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PERC Status Report No.18

To: Partnership Agreement Policy Committee

From: John Lambie, P.E., C.E.G., Consulting Chief Engineer and Groundwater Hydrologist

Date: May 21, 2024

Subject: PERC Project Status Report

BACKGROUND

The boards of the San Bernardino Valley Water Conservation District (Conservation District) and San Bernardino Valley Municipal Water District (Valley District) have agreed to draw from the best of both districts to promote a brighter future for groundwater storage and protection of threatened species in the region. This collaborative effort has been realized through the execution of the Partnership Agreement for Active Recharge Project Development under the Upper Santa Ana River Habitat Conservation Plan (Agreement).

The Agreement includes the requirement for the formation of a Partnership Agreement Policy Committee to review and advise the Conservation District staff on a number of items covered in the Agreement. The committee is to meet quarterly throughout the duration of the development of Active Recharge Transfer Projects. Major items of work in the partnership include:

- The Conservation District will provide up to 295 acres of conservation easements to the San Bernardino Valley Conservation Trust, to help offset the environmental impacts of active recharge projects being undertaken to enhance groundwater recharge and storage.
- Valley District will provide funding to the Conservation District, for building new recharge projects, for each acre of conservation easement the Conservation District transfers to the trust.
- Valley District will fund a permanent endowment with the Conservation Trust to support the management of habitat mitigation land.
- Valley District will transfer to the Conservation District the implementation, management, and eventual ownership of the following tentative list of proposed Active Recharge Projects:
 1. Mill Creek Diversion (expansion, construction, and operations)
 2. Plunge Creek Basins 1 (construction and operations)
 3. Plunge Creek Basins 2 (construction and operations)
 4. City Creek Basins (construction and operations)
 5. Waterman Percolation Basins (reconstruction and maintenance)

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- 6. East Twin Creek Basin (repairs and maintenance)
 - The Conservation District will develop plans, specifications, estimates and bid packages (Construction Package) on planned projects and submit them to the Committee for review and concurrence.
 - Valley District will draft, and process all required permits and any items of work required under NEPA or CEQA including Water Rights.

This status report is a summary of work completed to date on these major items and provides a look ahead at the planned work in the upcoming quarter.

PROGRAM UPDATE

Conservation Easement (CE) Payment Obligation

The agreement requires payment of 50% of the funds for the CE at completion of the Due Diligence which was paid on June 20, 2019. The remainder was paid on January 13, 2022, for a total paid to date of \$36,875,000.

Conservation Easement Usage Status (295 Acres initially set aside)

Covered Activity (project)	Implementing Agency	Easement Area required (ac)	Easement recordation date	Remaining Available Acreage
				295

Program Management

The following items of work have been performed:

1. A Program Management Plan to guide the long-term implementation of the program was developed and is being adhered to.
2. A planning level Memo of Understanding (MOU) was developed and adopted by SBVWCD and SBCFCD. Meetings have been held as necessary to keep the coordination and approval processes moving forward. A resolution was passed by the County Board of Supervisors to support the coordination.
3. Request for Qualifications (RFQ) process was undertaken to develop a list of qualified consultants. process resulted in a summary matrix of the fourteen consulting firms based on category and type of work for which they are qualified.
4. Requests for Proposals (RFPs) were issued for three (3) different project groupings to address eight (8) potential project locations. Three contracts were awarded.
 - i. Tetra Tech was awarded a Feasibility Study Support Services contract for the project facilities owned and operated by San Bernardino County Flood Control District

(SBCFCD) Waterman Percolation Basins and Twin Creek Spreading Grounds, along with the addition of SBCFCD's Lynwood Basins. Contract is in the amount of \$1,530,615. Contract expenditures to date are approximately \$993,000.

- ii. Q3 was awarded a Feasibility Study Support Services contract for Mill Creek, City Creek, Bledsoe Creek , and Cook Creek with the inclusion of engineering design services up to 65% design on the best alternative, total contact amount of \$2,190,644. City Creek diversion improvements evaluations were removed from the contracted scope of services and in their stead studies of Bledsoe and Cook Creeks project alternatives were added. The contract includes preliminary engineering for all three sites. Contract expenditures to date are approximately \$677,000.
- iii. CASC Engineering was awarded the Feasibility Study Support Services contract for the Plunge Creek and Oak Creek in the amount of \$786,880 and the Notice to Proceed has been issued. Contract expenditures to date are approximately \$390,000.

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Active Recharge Transfer Projects (as listed in the Agreement) PS&E Status

Project Name	Project Priority	Current Plan Phase	CEQA Status	Required Agreements / Permits w/ status	Construction Target date	Recent Activity
Mill Creek Diversion	1	Best Alternative Identification	Not started	ACOE – Not started SBCFCD – Not Started	FY25/26	Percolation testing was completed Fall 2023 and a partial geotechnical report drafted on the project-design percolation rates received in March 2024. Percolation rates have been integrated into the existing condition hydraulic model and the proposed condition hydraulic modeling using those rates for the Mill Creek South Boundary Canal and basin enhancements is in development as of April 17, 2024.. An average annual stormwater availability analysis using regional flood frequency analysis was completed for Mill Creek and Bledsoe Creek and accepted by District staff. Hydraulic modeling for 2 additional alternatives is in development by Consultant
Plunge Creek Basin 1 &2 (now Plunge Creek Quarry Basins)	3	Preliminary Design	Not started	RRM – Initiated Concept Level Discussion SBCFCD – Initiated through MOU	Not determined	Existing Q100 hydrology and geotechnical testing has been completed. The draft floodplain modeling report was completed and SBCFCD accepted the cross sections. The draft geotechnical report was submitted and well received by staff. The project hydrologic sizing analysis for average annual yield was rescoped with CASC. The sediment transport analysis has been completed and is under review by District staff.
City Creek (now Bledsoe and Cook Creek)	0	Concept	Not started	SBCFCD – Not Started	Not determined	Note: Cook Creek project has been eliminated. Bledsoe Creek site determined to have low annual yield and environmental conditions, proposed for elimination.
Waterman Percolation Basins	2	Conceptual Operational Alternatives and Grading Alternatives Design	Not started	SBCFCD - Initiated through MOU	Not determined	Hydrology modeling has been accepted. Existing conditions hydraulic models have been completed in 1D and 2D. Geotechnical testing is completed, and the preliminary report received. The Average Annual Storm report was finalized. The diversion analysis has been completed for the existing condition current gate settings. The existing condition basin routing results have been shared with District staff and discussed. An operational conditions set of alternatives for gate settings at Waterman is under review and development with District staff.
Twin Creek	2	Preliminary Design	Not started	SBCFCD – Initiated through MOU	Not determined	The sediment transport model has been developed and was submitted to District staff in March 2024 for review...See Waterman Spreading Grounds.

Additional Active Recharge Transfer Projects (not listed in the ARTP Agreement) Status

Project Name	Project Priority	Current Plan Phase	CEQA Status	Required Agreements / Permits w/ status	Construction Target date	Recent Activity
Oak Creek Basin	1	Preliminary Design	Not started	SBVMWD– Initiated SBCFCD – Initiated through MOU	FY 25/26	See Plunge Creek Basin 1 & 2. Hydraulic analysis of the existing City Storm drains has been completed and submitted to District.
Lynwood Basins	1	Conceptual Design	Not started	SBCFCD – Initiated through MOU	Not determined	Geotechnical testing was completed, and the preliminary report received identified lower anticipated infiltration rates in the Lynwood Basins than in the nearby Twin Creek Spreading Grounds.

“Next Steps” - Planned Work upcoming Quarter

Project	Planned Activity
Mill Creek Diversion	Model grading Alternative provided by District in RFP using infiltration rates from geotechnical testing to account for a clean basin scenario and for a clogged basin scenario. Continue work on basin routing designs to develop two additional grading alternatives per Scope of Work. Work with consulting team on sediment transport model and report draft
Plunge Creek Quarry Basins	Develop project hydrology from gage data for diversion and basin sizing. Meet with SBCFCD on project concepts. Meet with City of Highland and discuss both Plunge and Oak Creek Project sites.
Bledsoe and Cook Creek	Committee should eliminate Bledsoe Creek as a viable site based on average annual storm event results and environmental. Cook Creek has been eliminated.
Waterman Spreading Grounds	Meet with SBCFCD to review project alternatives especially on operational alternatives.
Twin Creek Spreading Ground	Meet with SBCFCD on concept .

Project	Planned Activity
Oak Creek Diversion	Hydraulic analysis of the existing City storm drains has been completed and submitted to District. Complete initial hydrology and hydraulics studies. Continue hydraulics, basin routing, and sediment transport studies. Initiate preliminary design and feasibility study for potential Small Storage Grant funding.
Lynwood Basins	Meet with SBCFCD to discuss operational alternatives and modifications to basin inerties.

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**ACTIVE RECHARGE TRANSFER PROJECTS (a.k.a. PERC Projects)
PRELIMINARY ESTIMATES OF CAPITAL COST BY PROJECT**

PROJECT	PRELIMINARY TOTAL BID ITEMS	CONTINGENCY (30%)	DESIGN and PERMITTING (20%)	HABITAT MITIGATION MEASURES	CONSTRUCTION ADMIN (15%)	PRELIMINARY TOTAL PROJECT CONSTRUCTION COST	NOTES
MILL CREEK Phase 1	\$9,986,500	\$3,000,000	\$2,000,000	\$200,000	\$1,500,000	\$16,690,000	Costs will be refined as designs are developed in current scope
MILL CREEK Phase 2	\$37,978,500	\$11,390,000	\$7,600,000	\$3,000,000	\$5,700,000	\$65,668,500	Costs will be refined as designs are developed in current scope
OAK CREEK BASINS	\$19,422,000	\$5,830,000	\$3,880,000	\$2,600,000	\$2,913,000	\$34,645,000	Costs will be refined as 30% designs are developed in current scope
PLUNGE CREEK BASINS (FORMER SILT POND ULTIMATE COND)	\$24,150,000	\$7,250,000	\$4,830,000	\$3,000,000	\$3,623,000	\$42,853,000	Total project cost will be on the order of \$15MM if site is mined as excavation for export and other misc. items will also be zero cost in a mined site scenario
WATERMAN SPREADING GROUNDS / BASINS	\$43,842,000	\$13,150,000	\$8,770,000	\$2,600,000	\$6,576,000	\$74,938,000	Costs will not be refined further until a conceptual project plan is agreed upon with the Flood Control District
EAST TWIN CREEK SPREADING GROUNDS / BASINS	\$26,400,000	\$7,920,000	\$5,280,000	\$3,500,000	\$3,960,000	\$47,060,000	Costs will not be refined further until a conceptual project plan is agreed upon with the Flood Control District
LYNWOOD BASINS	\$8,510,300	\$2,550,000	\$1,700,000	\$1,000,000	\$1,277,000	\$15,037,000	The interim phase will be assuming operations of the basins and instituting some operational modifications at a cost of approximately \$2 million
Preliminary Estimates Total Costs				\$15,900,000		\$296,891,500	Total Cost of all projects (assuming Plunge Creek Silt Pond Basin is mined)

**ACTIVE RECHARGE TRANSFER PROJECTS (a.k.a. PERC Projects)
5-YEAR PROJECTED COSTS (including maintenance and operations)**

PROJECT	PRELIMINARY ESTIMATED TOTAL PROJECT CONSTRUCTION COST	PHASE 1 PRELIMINARY ESTIMATED CONSTRUCTION COST	Sum Prior FY's	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	ESTIMATED 5-YR PROJECTED COSTS	ESTIMATED FIRST YEAR OF CONST.	NOTES
PROGRAM MANAGEMENT/ GENERAL EXPENSES	n/a	n/a	\$1,091,379	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	n/a	Costs post FY 22/23 are general admin
MILL CREEK DIVERSION AND BASINS	\$82,358,500	\$16,690,000	\$1,517,039	\$1,000,000	\$250,000	\$250,000	\$250,000	\$2,500,000	\$4,250,000	2030	FY 23/24 & 24/25 costs are feasibility study engineering. FY 25/26 thru FY 27/28 costs are final design /permitting for Phase 1 construction. Phase 1 consists of Basin 1 and Basin 2 reconfiguration and portion of new South Boundary Canal. FY28/29 includes final permitting and initial construction of Phase 2 for increasing basin sizes and percolation capacity west of Garnet St.
OAK CREEK BASINS	\$34,645,000	\$18,743,000	\$309,901	\$500,000	\$500,000	\$500,000	\$500,000	\$16,743,000	\$18,743,000	2028	FY 23/24 & 24/25 costs are feasibility study engineering. FY 25/26 thru FY 27/28 costs are final design /permitting for Phase 1 construction. Phase 1 consists of all work except Oak Creek diversion
PLUNGE CREEK BASINS (FORMER SILT POND ULTIMATE COND)	\$42,853,000	\$0	\$539,437	\$20,000	\$20,000	\$20,000	\$20,000	\$50,000	\$130,000	TBD	FY 23/24 & 24/25 costs are feasibility study engineering. FY 25/26 thru FY 27/28 costs are final design /permitting for Phase 1 construction. Phase 1 consists of Interim Basin and interim diversion structure. That work depends on coordination with BLM land transfer and mining operations.
WATERMAN SPREADING GROUNDS / BASINS	\$74,938,000	\$0	\$670,253	\$50,000	\$20,000	\$20,000	\$50,000	\$100,000	\$240,000	TBD	FY 23/24 & FY 24/25 costs are to complete feasibility study and cost benefit ratio. FY 25/26 & FY 26/27 costs are to obtain a water spreading agreement. FY 27/28 are O&M costs assuming water surface agreement has been obtained
EAST TWIN CREEK SPREADING GROUNDS / BASINS	\$47,060,000	\$0	\$662,817	\$300,000	\$20,000	\$20,000	\$0	\$100,000	\$440,000	TBD	FY 23/24 & FY 24/25 costs are to complete feasibility study and cost benefit ratio. FY 25/26 & FY 26/27 costs are to obtain a water spreading agreement. No cost assumed post 26/27 due to size of project
LYNWOOD BASINS	\$15,037,000	\$2,000,000	\$142,563	\$30,000	\$20,000	\$20,000	\$100,000	\$50,000	\$220,000	TBD	FY 23/24 & FY 24/25 costs are to complete feasibility study and cost benefit ratio. FY 25/26 costs are to coordinate under either the water spreading agreement or under a stormwater detention plan. FY26/27 and beyond are coordination costs with SBCFCD
COOK CREEK BASINS	n/a	n/a	\$79,077	\$0	\$0	\$0	\$0	\$0	\$0	na	Project has been eliminated
BLED SOE CREEK BASINS	n/a	n/a	\$12,166	\$0	\$0	\$0	\$0	\$0	\$0	na	Project does not appear feasible
Preliminary Estimates of Total Costs	\$296,891,500	\$37,433,000	\$5,024,631	\$2,000,000	\$930,000	\$930,000	\$1,020,000	\$19,643,000	\$24,523,000		



ACTIVE RECHARGE TRANSFER PROJECTS (aka PERC) PROGRAM COST TRACKING AND BUDGET WORKSHEET

**San Bernardino Valley
Water Conservation District**
Helping Nature Store Our Water

10-YEAR COST PLANNING

Project or Study Effort	Project Estimated Cost	Prior Years Actual	Budget Yr. 1 Actual FY 22-23	Budget Yr. 2 FY 23-24	Budget Yr. 3 FY 24-25	Budget Yr. 4 FY 25-26	Budget Yr. 5 FY 26-27	Budget Yr. 6 FY 27-28	Budget Yr. 7 FY 28-29	Budget Yr. 8 FY 29-30	Budget Yr. 9 FY 30-31	Budget Yr. 10 FY 31-32	Total Budgeted Amount	Future Funding Needs
Available Budgeted Funding	\$ 36,875,000	\$ 35,685,298	\$35,114,065	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Projected Program Management Expenditures														
Overall Planning and Program Management	\$ 4,750,000	\$ 989,795	\$ 307,510	\$ 490,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 3,600,000	TBD
Feasibility Study and Preliminary Engineering	\$ 5,543,139	\$ 436,515	\$ 1,173,589	\$ 2,375,000	\$ 1,608,035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,160,000	\$ -
CEQA, Permitting and Conservation Easement Related	\$ 2,400,000	\$ 5,619	\$ 11,024	\$ -	\$ 800,000	\$ 500,000	TBD	TBD	TBD	TBD	TBD	TBD	\$ 1,310,000	TBD
Engineering Design and Special Studies	\$ 21,000,000	\$ 600	\$ -	\$ -	\$ 1,955,000	\$ 1,955,000	TBD	TBD	TBD	TBD	TBD	TBD	\$ 3,910,000	TBD
Total of Program Management, Design and Environmental Documents	\$ 33,693,139	\$ 1,432,530	\$ 1,492,122	\$ 2,865,000	\$ 4,713,035	\$ 2,805,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 13,980,000	\$ -
Construction Phase Work Items (includes design and permitting)														
Mill Creek	\$ 82,358,500	\$ -	\$ -	\$ -	\$ 500,000	\$ 7,743,250	\$ 7,243,250	TBD	TBD	TBD	TBD	TBD	\$ 82,358,500	TBD
Plunge Creek Basin	\$ 42,853,000	\$ -	\$ -	\$ -	\$ -	\$ -	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Waterman Basins	\$ 74,938,000	\$ -	\$ -	\$ -	\$ -	\$ -	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Twin Creek	\$ 47,060,000	\$ -	\$ -	\$ -	\$ -	\$ -	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Oak Creek	\$ 34,645,000	\$ -	\$ -	\$ -	\$ 1,455,000	\$ 1,455,000	\$ 25,000,000	TBD	TBD	TBD	TBD	TBD	\$ 34,645,000	TBD
Lynwood basins	\$ 15,037,000	\$ -	\$ -	\$ -	\$ -	\$ -	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Total Construction Phase	\$ 296,891,500	\$ -	\$ -	\$ -	\$ 1,955,000	\$ 9,198,250	\$ 32,243,250	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**ACTIVE RECHARGE TRANSFER PROJECTS (aka PERC)
COST SUMMARY MAY 2024**

Project	Contract Totals	Actual FY 19/20	Actual FY 20/21	Actual FY 21/22	Actual FY 22/23	Total Cost to Date	
In-House Costs							
Salaries and Benefits	Program Management	n/a	\$161,343	\$179,535	\$198,156	\$69,677	\$608,710
Overhead	Program Management	n/a	\$77,276	\$155,064	\$84,335	\$52,616	\$369,291
Salaries / Benefits / Overhead	Plunge / Oak Creek Basins	n/a	n/a	n/a	\$10,157	\$60,745	\$70,902
Salaries / Benefits / Overhead	Waterman / East Twin / Lynwood	n/a	n/a	n/a	\$22,036	\$98,596	\$120,632
Salaries / Benefits / Overhead	Mill / Bledsoe / Cook Creek Basins	n/a	n/a	n/a	\$52,667	\$75,876	\$128,543
Total Cost	n/a	\$238,619	\$334,599	\$367,351	\$357,510	\$1,298,079	
Outside Contracts							
Mikael Romich	Plunge Creek Basins	\$1,252	\$0	\$1,252	\$0	\$0	\$1,252
Black Gold Engineering	Mill Creek	\$600	\$0	\$0	\$600	\$0	\$600
AECOM	Mill / Plunge / Oak Creek	\$118,950	\$0	\$0	\$3,594	\$11,024	\$14,617
CASC Engineering	Plunge / Oak Creek Basins	\$786,880	\$0	\$0	\$74,458	\$253,579	\$328,037
Tetra Tech	Waterman / East Twin / Lynwood Basins	\$1,530,615	\$0	\$0	\$254,415	\$549,616	\$804,031
Q3 Consulting	Mill / Bledsoe / Cook Creek Basins	\$2,190,644	\$0	\$0	\$157,643	\$320,393	\$478,036
Total Cost	\$4,628,941	\$0	\$1,252	\$490,709	\$1,134,612	\$1,626,573	
Grand Total	\$4,628,941	\$238,619	\$335,850	\$858,060	\$1,492,122	\$2,924,652	