



Board of Directors
Sheldon G. Berger President
Lynn E. Maulhardt, Vice President
Catherine P. Keeling, Secretary/Treasurer
Keith Ford
Mohammed A. Hasan
Steve Huber
Gordon Kimball

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

AGENDA REGULAR BOARD MEETING

**Wednesday, October 9, 2024, 12:00 p.m.
Board Room, UWCD Headquarters
1701 N. Lombard Street, Oxnard CA 93030**

BOARD MATTERS

Normally, Action (Motion) Items will be considered and acted upon separately; Consent Items will be considered and acted upon collectively, although a Consent Item may be considered and acted upon separately; and Information Items will be considered separately without action. The Board of Directors in its discretion may change the order of agenda items.

ROLL CALL

1. FIRST OPEN SESSION 12:00 P.M.

Items to be discussed in Executive (Closed) Session will be announced.

1.1 Public Comments Information Item

Members of the public may address the Board on any matter on the Executive (Closed) Session agenda or on any non-agenda item within the jurisdiction of the Board. All comments are subject to a five-minute time limit.

1.2 EXECUTIVE (CLOSED) SESSION 12:05 P.M.

The Board will discuss matters outlined in the attached Executive (Closed) Session Agenda (Exhibit A).

2. SECOND OPEN SESSION AND CALL TO ORDER 1:00 P.M.

2.1 Pledge of Allegiance

2.2 Public Comment Information Item

Members of the public may address the Board on any item on the Consent Calendar or on any non-agenda item within the jurisdiction of the Board. No action will be taken by the Board on any non-agenda item. All comments are subject to a five-minute time limit.

2.3 Approval of Agenda Motion

2.4 Oral Report Regarding Executive (Closed) Session Information Item

Presented by District Legal Counsel David D. Boyer.

**2.5 Board Members' Activities Report
Information Item**

Receive and file information regarding meeting participation provided by each of the Board Members through Monthly Activities (aka per diem) Reports.

**2.6 General Manager's Report
Information Item**

The General Manager will present information on his activities of possible interest to the Board and that may have consequence to the District.

**2.7 Fiscal Year 2023-2024 Fourth Quarter Financial Report (July 1, 2023 – June 30, 2024)
Information Item**

Review the Fiscal Year End 2023-24 Financial Reports for the period of July 1, 2023, through June 30, 2024, as well as receive a presentation from the District's chief financial officer.

**2.8 Ventura Local Agency Formation Commission Nomination for Ventura LAFCo Special District Regular Member
Motion Item**

The Board will consider nominating a candidate to fill the position expiring December 31, 2024 and adopt a Resolution nominating a board member.

**2.9 Overview of the District's Strategic Plan
Information Item**

The General Manager will present an overview of the District's Strategic Plan.

3. CONSENT CALENDAR: All matters listed under the Consent Calendar are considered routine by the Board and will be enacted by one motion. There will be no separate discussion of these items unless a Board member pulls an item from the Calendar. Pulled items will be discussed and acted on separately by the Board. Members of the public who want to comment on a Consent Calendar item should do so under Public Comments. (ROLL CALL VOTE REQUIRED)

**3.1 Approval of the September 11, 2024 Regular Meeting Minutes
Motion**

Approve the minutes.

**3.2 Groundwater Basin Status Reports
Information Item**

Receive and file Monthly Hydrologic Conditions Report for the District.

**3.3 Investment Monthly Report (August 2024)
Information Item**

Receive and review the most current investment report.

3.4 Approval of the Request from Sierra Pacific Farms, Inc. to Waive the Penalties and Interest Charges for Late Submission and Payment

Motion Item

Approve the request from Sierra Pacific Farms, Inc.'s to waive penalties and interest charges of \$11,079.48 for a late payment and filing for well numbers 04N19W26P02S, 04N18W19P02S, 03N20W03P01S, 03N20W03J02S, 04N19W26J03S, and 04N18W30E01S.

3.5 Adopt a Resolution Approving and Adopting the California Environmental Quality Act Initial Study-Mitigated Negative Declaration and issuance of the Notice of Determination for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (CIP 8018)

Motion Item

Adopt a Resolution approving and adopting the Initial Study-Mitigated Negative Declaration (IS-MND) and accompanying Mitigation Monitoring and Reporting Program (MMRP) for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (Project), authorizing its implementation by the General Manager, and directing the Environmental Services Manager to file a Notice of Determination in accordance with the California Environmental Quality Act (CEQA).

4. MONTHLY REPORTS BY DEPARTMENT

4.1 Operations and Maintenance Department Monthly Report

Craig Morgan

Information Item

Summary report and presentation on monthly activities of the Operations and Maintenance Department, including but not limited to the District's facilities (Santa Felicia Dam and hydroplant; the Piru Groundwater Recharge facility; the Freeman Diversion; the Saticoy and El Rio Groundwater Recharge facilities; the Pleasant Valley and Pumping Trough Pipeline systems; and the Oxnard Hueneme Pipeline system), encompassing operating plans, the quantity and quality of water diverted and delivered, fish ladder operations, major maintenance problems and repairs, status of Operations and Maintenance projects and safety and training issues.

4.2 Park and Recreation Department Monthly Report

Craig Morgan

Information Item

Summary report and presentation on monthly activities of the Park and Recreation Department, including but not limited to the Lake Piru Recreation Area, encompassing camping and boating policies at the lake; operations and activities; financing and status of facility improvement projects; maintenance activities; security issues; and emergency response activities.

4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs)

John Lindquist
Information Item

Summary report and presentations on the monthly activities of the Water Resources Department including but not limited to updates to the District's Groundwater Flow Model; reservoir releases; importation of State Water Project (SWP) water; optimization of diversion and recharge operations; hydrologic and well conditions; available Forebay storage; support of design of the Extraction Barrier and Brackish (EBB) Water Treatment Project; other potential water supply and sustainability water projects; outreach and educational activities; and various user groups (including but not limited to Oxnard Plain and Pumping Trough Pipeline groups) including monthly activities of the three local Groundwater Sustainability Agencies (Mound Basin GSA, Fillmore and Piru Basins GSA, and the Fox Canyon Groundwater Management Agency), for which the District serves as a member director, and the Santa Paula basin (adjudicated) Technical Advisory Committee (including formation of groundwater sustainability agencies in the District's basins, stakeholder and basin user groups, joint powers or governance agreements, development of water markets, and potential basin boundary changes).

4.4 Administrative Services Department Monthly Report

Josh Perez and Brian Zahn
Information Item

Summary report and presentation on the monthly activities of the Administrative Services Department including but not limited to issues associated with budget development, financial performance versus budget plan, financial accounting requirements and procedures, potential debt issuance and related financial services, status of District investments and reserves, updates on its capital improvement programs, human resources and safety, District property and facilities maintenance and administration, District records and reports, groundwater extraction statements administration, risk management and District liability insurance matters, management of District contracts, policy development, governance procedures, and supporting activities of Board and staff.

4.5 Engineering Department Monthly Report

Dr. Maryam Bral
Information Item

Summary report and presentation on the monthly activities of the Engineering Department, including but not limited to water resources, planning efforts and department programs impacting the District, such as project design and construction; dam safety; FERC license compliance; Freeman Diversion; recycled water; pipeline operations and various engineering analysis.

4.6 Environmental Services Department Monthly Report
Marissa Caringella
Information Item

Summary report and presentation on the monthly activities of the Environmental Services Department, including but not limited to environmental and regulatory issues of note to the District, water releases, operations of the fish ladder at the Freeman Diversion, various monitoring efforts, study plans and issues associated with the Endangered Species Act, including the Section 10 MSHCP process, future fish passage requirements, compliance with the District's FERC license/Biological Opinion, the Santa Felicia Dam, studies and operations in and near Piru Creek.

5. MOTION ITEMS

5.1 Adopt a Resolution Approving the Revised Owners Dam Safety Program and Overarching Dam Safety Program Policy dated October 2024 (CIP 8002-8003)
Dr. Maryam Bral
Motion

Adopt a Resolution approving the revised Santa Felicia Dam Owners Dam Program, revision 10.0 dated October 2024, and the Overarching Dam Safety Program Policy.

5.2 Approve a Construction Contract with Toro Enterprises, Inc., in the Amount of \$5,092,286 for the Construction of the Recycled Water Connection – Laguna Road Pipeline Project (CIP 8043)
Dr. Maryam Bral
Motion

Approve a construction contract with Toro Enterprises, Inc., in the amount of \$5,092,286 for the construction of the Recycled Water Connection – Laguna Road Pipeline Project (CIP 8043) subject to and conditioned upon United obtaining additional grant funding to cover the budget shortfall and authorizing the General Manager to execute the construction contract upon securing such additional funding.

5.3 Approve an Amendment to the Professional Services Agreement with Cramer Fish Sciences for Final Analyses and Deliverables Associated with the Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan in the Amount of \$149,687
Marissa Caringella, Environmental Services Manager
Motion Item

Approve an amendment to the professional consulting services agreement with Cramer Fish Sciences in the amount of \$149,687 to develop final project analyses and deliverables associated with the "Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan" and authorize the General Manager to execute the amendment.

6. BOARD OF DIRECTORS READING FILE

7. FUTURE AGENDA ITEMS

8. ADJOURNMENT

All testimony given before the Board of Directors is recorded. Materials, which are non-exempt public records and are provided to the Board of Directors to be used in consideration of the above agenda items, including any documents provided subsequent to the publishing of this agenda, are available for inspection at the District's offices at 1701 N. Lombard Street, Suite 200, Oxnard CA 93030 during normal business hours.

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, or if you require agenda materials in an alternative format, please contact the District Office at (805) 525- 4431. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

Approved: _____


Mauricio Guardado, General Manager

This agenda was posted Thursday, October 3, 2024, at 4:30 p.m. at the United Water Conservation District Headquarters, Oxnard, CA and www.unitedwater.org.


Tracy J. Oehler, Clerk of the Board

EXHIBIT A
EXECUTIVE (CLOSED) SESSION AGENDA

1. LITIGATION

1.1 CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Pursuant to Government Code Section 54956.9(d)(2), three (3) cases.

1.2 CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Pursuant to Government Code Section 54956.9 (d)(1)

- A. Wishtoyo Foundation, et al v. United Water Conservation District, U.S. District Court for the Central District of California, Case No.2:16-cv-03869 GHK (PLAx).
- B. OPV Coalition v Fox Canyon Groundwater Management Agency, Superior Court of the State of California, County of Ventura, Case No. 56-2021-00555357-CU-PT-VTA; Complaint for Comprehensive Groundwater Adjudication of the Oxnard Groundwater Subbasin (No. 4-004.02) and Pleasant Valley Subbasin (No. 4-006) Pursuant to Sections 830, *Et Seq.* of the Code of Civil Procedure; Declaratory Relief; Quiet Title; and Petition for Writs of Mandate.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Tracy J. Oehler, Clerk of the Board

Date: October 1, 2024 (October 9, 2024 Meeting)

Agenda Item: 2.5 Board Members' Activities Reports
Information Item

Staff Recommendation:

Receive and file information regarding meeting participation provided by each of the Board of Directors through monthly activities reports (per diems).

Discussion:

This item is provided on the agenda of each regular meeting in order to allow Directors to report on non-agenda activities such as:

- 1) UWCD Committee participation – Committee Chair to report on Committee's objectives and actions to the Board.
- 2) Meetings, workshops, conferences, and functions attended during the previous month on behalf of the District.
- 3) Possible conflicts the Directors might have with respect to issues on the agenda.

Attachment(s):

A – Directors' Monthly Activities Reports

Board of Directors
Activities and Expenses for Month September **Year** 2024

Due on last day of month

Director: S. Huber

1. UWCD Board Meetings Regular, special or emergency meetings.			Date	Mileage	✓	
			9/11	8		
2. UWCD Committee/Advisory Body Meetings Environmental, Executive, Finance/Audit, Groundwater, Operations, Planning, Recreation and RiverPark JPA Committees.		Committee Name & Location	Date	Mileage	✓	
		Admin and Finance Committee/HQ	9/30	8		
3. Meeting with GM or District Legal Counsel (LC)	W/ GM or LC	Meeting Description & Location	Date	Mileage		
4. Conferences/Trainings. Includes conferences or educational activities organized by ACWA, AWAVC & CSDA.		Event Name & Location	Date	Mileage		
5. Appointed representative to meetings of other entities' Boards. Includes FCGMA, LAFCO, RiverPark JPA, AWAVC BoD, Oxnard Chamber of Commerce Water Committee, ACWA, CSDA and GSA. Or preparatory meetings with GM regarding above meetings.		Entity Name & Location	Date	Mileage	✓	
		RDP/ VC Gov Ctr	9/12	10		
		AWA Water Issues Comm/ Zoom	9/17	0		✓
6. Meetings of other government entities at request of BoD, BP or GM. Such as PVCWD, FCGMA or Oxnard City Council.		Entity Name & Location	Date	Mileage	✓	
		Oxnard Water WorkshopOxnard CA	9/17	6		
7. Meetings with board members or executive management of other agencies. Includes FCGMA, LAFCO, RiverPark JPA, AWAVC BoD, Oxnard Chamber of Commerce Water Committee, ACWA, CSDA, GSA.		Entity Name & Location	Date	Mileage		
8. Public meetings hosted by District regarding District matters Such as Section 10 HCP, Vern Freeman Fish Panel.		Meeting Description & Location	Date	Mileage		

Board of Directors
Per Diem and Expenses for Month September **Year** 2024

Due on last day of month

9. Meetings with state or federal legislators or officials or representatives from other entities. At the request of the BoD, BP or GM.	Official Name/Meeting Description & Location	Date	Mileage

Other Expenses	Total
Days of out of town travel	
Lodging*	\$
Meals*	\$
Transportation*	\$
Misc.*	\$

* attach all receipts

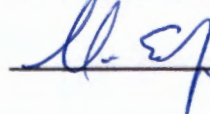
This section to be completed by Finance Department only			
Phone Allowance			\$50.00
Total # of meetings**	<u>5</u>	x \$260	\$ <u>1300 -</u>
**not to exceed 10 meetings and \$2,600. per month or 1 meeting per day			
Total days of travel		x \$100.00/day	
Total # of miles	<u>32</u>	x \$0.67/mile	\$ <u>21.44</u>
Total other expenses			\$
TOTAL MILEAGE AND OTHER EXPENSES			\$ <u>1371.44</u>

Director Signature



Date: 9/30/24

General Manager Signature



Date: 10/2/24

Definitions

BoD: Board of Directors

BP: Board President

GM: General Manager

Board of Directors
Activities and Expenses for Month 8 _____ Year 24 _____

Due on last day of month

Director: Mohammed A. Hasan, P.E.

1. UWCD Board Meetings Regular, special or emergency meetings.		Date	Mileage
2. UWCD Committee/Advisory Body Meetings Environmental, Executive, Finance/Audit, Groundwater, Operations, Planning, Recreation and RiverPark JPA Committees.	Committee Name & Location	Date	Mileage
3. Meeting with GM or District Legal Counsel (LC)	W/ GM or LC	Meeting Description & Location	Date
4. Conferences/Trainings. Includes conferences or educational activities organized by ACWA, AWAVC & CSDA.	Event Name & Location	Date	Mileage
	~~Ventura River Watershed~~	~~8-1~~	~~-~~
	Santa Clara River Watershed	8-22	-
5. Appointed representative to meetings of other entities' Boards. Includes FCGMA, LAFCO, RiverPark JPA, AWAVC BoD, Oxnard Chamber of Commerce Water Committee, ACWA, CSDA and GSA. Or preparatory meetings with GM regarding above meetings.	Entity Name & Location	Date	Mileage
	CSDA	8-6	26
	Ventura City council	8-20	-
6. Meetings of other government entities at request of BoD, BP or GM. Such as PVCWD, FCGMA or Oxnard City Council.	Entity Name & Location	Date	Mileage
	Meeting Director Cole Casitas MWD	8-2	10
7. Meetings with board members or executive management of other agencies. Includes FCGMA, LAFCO, RiverPark JPA, AWAVC BoD, Oxnard Chamber of Commerce Water Committee, ACWA, CSDA, GSA.	Entity Name & Location	Date	Mileage
	~~Ventura River Watershed Council~~	~~8-1~~	~~-~~
	Mound Beain	8-26	-
8. Public meetings hosted by District regarding District matters Such as Section 10 HCP, Vern Freeman Fish Panel.	Meeting Description & Location	Date	Mileage

DUPLICATE ✓

✓
✓

✓

✓

Board of Directors
Per Diem and Expenses for Month 8 Year **24**

Due on last day of month

9. Meetings with state or federal legislators or officials or representatives from other entities. At the request of the BoD, BP or GM.	Official Name/Meeting Description & Location	Date	Mileage

Other Expenses	Total
Days of out of town travel	
Lodging*	\$
Meals*	\$
Transportation*	\$
Misc.*	\$

* attach all receipts

This section to be completed by Finance Department only			
Phone Allowance			\$50.00
Total # of meetings**	5	x \$260	\$ 1300 -
**not to exceed 10 meetings and \$2,600. per month or 1 meeting per day			
Total days of travel		x \$100.00/day	
Total # of miles	36	x \$0.67/mile	\$ 24.12
Total other expenses			\$
TOTAL MILEAGE AND OTHER EXPENSES			\$ 1374.12 TD

Director Signature

Mohammed Hassan Date: 9-3-24

General Manager Signature

AL Date: 9/18/24

Definitions

BoD: Board of Directors

BP: Board President

GM: General Manager



STAFF REPORT

To: UWCD Board of Directors

From: Mauricio E. Guardado, Jr., General Manager

Date: October 1, 2024 (October 9, 2024 Meeting)

Agenda Item: 2.6 General Manager's Report
Information Item

Staff Recommendation:

The General Manager will present information on his activities of possible interest to the Board and that may have consequences to the District.

Discussion:

The General Manager's primary responsibility is to ensure that the policies and directions of the Board of Directors are adhered to as he oversees and manages the efforts of the department managers and their staff in the day-to-day operation and administration of the District. All of these efforts are to be consistent with the District's Mission Statement and within the fiscal constraints set by the Board of Directors.

The District's managers provide detailed monthly updates to the Board of Directors which outline projects' statuses, accomplishments, issues of concern, projects planning, etc. The monthly General Manager's report provides an opportunity for the General Manager to discuss issues that may impact the efforts of the separate departments as they pursue their defined goals and objectives. The report also provides the Board with information on the District's efforts and involvement in local, regional and state-wide issues.

Finally, the monthly General Manager's report offers the Board of Directors an overview of how their policies and directions are being administered through discussion of the work plan and efforts of the General Manager.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Anthony Emmert, Assistant General Manager

From: Brian H. Zahn, Chief Financial Officer

Date: September 24, 2024 (October 9, 2024, meeting)

Agenda Item: 2.7 Fiscal Year 2023-2024 Fourth Quarter Financial Report
(July 1, 2023 – June 30, 2024)
Information Item

Staff Recommendation:

Review the Fiscal Year End (FYE) 2023-24 Financial Reports for the period of July 1, 2023, through June 30, 2024, as well as receive a presentation from the District's chief financial officer.

Discussion:

The District prepares quarterly financial reports for each quarter which provide an analysis of District operations through the end of each quarter to highlight variances and for fiscal accountability.

This report represents twelve months of financial information for District operations for FYE 2023-24 (100 percent of the total fiscal year). Included in this report are budget to actual comparisons to date for District revenues, expenditures, and water deliveries, as well as discussion of any significant variances. This report is based on unaudited financial data and, therefore, is subject to revision as staff makes any necessary adjustments that may occur during the year.

While some funds appear to have some savings potential, adjustment recommendations may not be made at this time because the potential savings may be the result of delays in timing and, therefore, may not materialize.

Staff currently offer no recommendations for budget adjustments.

Attachments:

- A – CIP Status FY2023-24 4Q Financial Reports
- B – FY2023-24 Fiscal Year End Financial Reports



Board of Directors
 Sheldon G. Berger, President
 Lynn E. Maulhardt, Vice President
 Catherine P. Keeling, Secretary/Treasurer
 Keith Ford
 Mohammed A. Hasan
 Steve Huber
 Gordon Kimball

September 26, 2024

General Manager
 Mauricio E. Guardado, Jr.

Legal Counsel
 David D. Boyer

Board of Directors
 United Water Conservation District

Subject: Fourth Quarter Fiscal Year 2023-2024 Financial Reports

Dear Board Members:

Enclosed for your review are the District's Fiscal Year (FY) 2023-2024 Fourth Quarter Financial Reports. These reports represent 12 months of financial information for District operations (July 1, 2023, through June 30, 2024) and Capital Improvement Project (CIP) updates (April 1 through June 30, 2024).

The report focuses primarily on the operating funds of the District and corresponding CIP funds:

- General/Water Conservation Fund
- Recreation and Ranger Activities Sub-fund
- Freeman Fund
- Oxnard/Hueneme Pipeline (OHP) Fund
- Pleasant Valley Pipeline (PVP) Fund
- Pumping Trough Pipeline (PTP) Fund
- State Water Import Fund
- Overhead Fund

Staff provides the Board's Finance and Audit Committee with monthly cash position and pipeline delivery activities reports throughout the fiscal year. Quarterly financial reports are submitted to the Board to provide information on the financial status of the District and to assure the Directors and District customers that staff is operating within the parameters of the annual adopted budget, including any supplemental appropriations. At the end of each fiscal year, an outside certified public accounting firm performs an independent financial audit to test staff's financial reporting accuracy and internal controls. It is staff's responsibility to ensure that the Board has received adequate financial information throughout the year so that there are no surprises, and so that fiscally prudent decisions can be made when the Board is asked to consider approval of budgeted and unbudgeted expenditure requests.

This report compares the revenues and budget appropriations for the fiscal year-to-date with data to provide the Board and District customers a preliminary financial view (subject to audit adjustments at year-end). The following discussion will provide a summary of the District's projected revenues and approved spending plan compared to what actually occurred throughout the fiscal year. It also provides an update on approved and funded CIPs.



OPERATING FUNDS

Narrative and graphical analyses are provided by fund (and the Recreation sub-fund) on the pages following the Capital Improvement Program Status.

CAPITAL IMPROVEMENT PROGRAM STATUS

A one-page summary of the District's current Five-Year Capital Improvement Program appears along with Benchmark Interest Rates as part of Attachment B. **As of June 30, 2024**, all CIP expenditures are within the total amount appropriated by the Board.

The majority of the CIPs that have been funded are currently underway, either in the planning, design, or construction stages of the project.

- ***Well Replacement Program (CIP # 8000)***

Construction and equipping of Well 20 is complete and waiting for the California Department of Drinking Water to amend the District's permit in order to put Well 20 in service.

- ***Freeman Diversion Expansion (CIP # 8001)***

GEI Consultants (GEI) continued to advance the engineering design drawings to the 90% level. Hydrosience and Engineering staff continued work on the sediment model.

- ***Santa Felicia Dam Outlet Works Rehabilitation (CIP # 8002)***

- o On May 23, 2024, Engineering and O&M staff along with construction management services consultants from Black and Veatch Corporation (BV) conducted a constructability review site visit for the Outlet Works Improvement Project. In addition, the group reviewed a three-dimensional model of the proposed Outlet Works Facility to ensure that there is appropriate access, clearance, and egress in the Intake Control Facility and Downstream Control Facility for day-to-day operations and maintenance.
- o On June 19, 2024, staff received a finalized proposal from BV for Amendment No. 1 to the Professional Consulting Services Agreement (PCSA) for Construction Management and Inspection Services for the Outlet Works Improvement Project. The proposed not-to-exceed fee for the services included in this amendment is \$1,780,888, which would bring the total contract amount to \$3,279,511 to date. The contract term would span from July 2024 through June 2025.
- o On June 21, 2024, staff submitted a request for authorization to construct the Santa Felicia Dam (SFD) 72" Butterfly Valve Redundancy Plan to the Federal Energy Regulatory Commission (FERC). If authorized by FERC, construction of this project would take place in September 2024.
 - Design Potential Failure Mode Analysis (PFMA) Workshop - The design PFMA workshop was conducted at District Headquarters from January 22 to 25, 2024, and three virtual overflow days were conducted on February 2, February 5, and March 11, 2024. The final report was electronically filed with FERC on June 7, 2024.



- ***Santa Felicia Dam Probable Maximum Flood Containment (CIP # 8003)***
On June 21, 2024, staff received a finalized proposal from GEI for the 90% Design, 100% Design, and Bid Phase Support Services for the Santa Felicia Dam (SFD) Spillway Improvement Project. The proposed not-to-exceed fee for these services is in the amount of \$2,154,576 and the contract term would span from July 2024 through June 2028.
- ***Santa Felicia Dam Sediment Management (CIP # 8005)***
The feasibility study was completed in 2022. No updates to report.
- ***Oxnard Hueneme Pipeline Iron and Manganese Treatment Facility (CIP # 8007)***
 - o Construction achieved substantial completion on April 10, 2024, and delivery of treated water to the Oxnard Hueneme Pipeline (OHP) commenced.
 - o Certified laboratory sampling and analysis confirmed successful iron and manganese removal which was reported to the State Water Resources Control Board's Division of Drinking Water (DDW).
 - o Change Order No. 43 in the amount of \$21,387.56 for various electrical and instrumentation modifications was executed on June 5, 2024.
 - o Change Order No. 44 in the amount of \$76,316.75 for various Air Scour System modifications was executed on June 18, 2024.
 - o The District's Board of Directors approved a supplemental appropriation in the amount of \$343,126 at the May 15, 2024, Board of Director's Meeting.
 - o Amendment No. 5 to the Professional Services Agreement for Construction Management Services in the amount of \$38,479 was issued to HDR, Inc. on June 5, 2024.
 - o Submitted Amendment No. 2 to the Office of Local Defense Community Cooperation for time extension related to Defense Community Infrastructure Program Grant through December 31, 2024.
 - o GSE's work in this reporting period included the following:
 - Buried and replaced a 24" filtered water butterfly valve.
 - Washwater recovery tank dolphin strainer hose replaced.
 - Vertical turbine pump maintenance at the Filter Drain Pump Station.
 - Filter vessel air scour electrically actuated valve repairs.
 - Multiple programming corrections made by GSE's system integrator (RoviSys) to improve process reliability and facilitate continued facility startup and commissioning.
 - New filter level instrument probes were installed to address an outstanding issue with faulty level readings.
 - The three-month operational period to comply with the DDW requirements for demonstrating full treatment efficacy started on April 10, 2024.
- ***Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (CIP # 8018)***
A construction contract was issued to Granite Construction Company for the Inverted Siphon Replacement Project. A contract was also awarded to HERC Rentals for the diversion bypass operation. An application was submitted by the County of Ventura to



ACOE for a 408 permit for the Three-Barrel Culvert Replacement Project. Design progressed to the pre-final milestone for the Vineyard Avenue Undercrossing Project and a permit application was submitted to Caltrans.

- ***Extraction Barrier and Brackish Water Treatment (CIP # 8019) – Robert Richardson***
 - o *New Monitoring Wells:*
 - ABC Liovin mobilized to Naval Base Ventura County Point Mugu the week of May 20, 2024.
 - As of June 30, 2024:
 - Ten wells were installed in the semi-perched aquifer.
 - One well was installed in the Oxnard aquifer.
 - A piezometer was installed in the Fox Canyon aquifer.
 - Five wells in the Oxnard aquifer and four wells in the Mugu aquifer remain to be drilled.
 - Jacobs Engineering Group has provided field support and managed characterization of investigation derived waste.
 - o *Grants:*
 - Grant application requesting \$20M in Federal funds for the Phase 1 Project submitted on June 17, 2024, to the Office of Local Defense Community Cooperation related to the FY2024 Defense Community Infrastructure Program.
 - Started to prepare grant application requesting \$300K in Federal funds for the United States Bureau of Reclamation Desalination and Water Purification Research Program: Pitch to Pilot Grant for Phase 2 Project Treatment Pilot Testing.
 - o *Environmental Documentation:*
 - On April 22, 2024, a draft Description of Proposed Action and Alternatives was delivered to United States Navy staff.
 - o *Design:*
 - In April to May 2024, spearhead locating services performed field utility markings and Encompass Consultant Group performed land surveying in preparation for topographic survey for the Phase 1 project.
 - In April to May 2024, Earth Systems completed geotechnical exploration work in preparation of a geotechnical report for the Phase 1 project.
 - In June 2024, Environmental Science Associates conducted a shear vane study in the Mugu Lagoon to assist in the Phase 1 discharge alternatives design.
 - In June 2024, Water Resources staff conducted a velocity study in the Mugu Lagoon to assist in the Phase 1 discharge alternatives design.
 - Kennedy Jenks Consultants (the design engineer) developed multiple discharge alternative concepts.



- ***Rice Avenue Overpass Pumping Trough Pipeline (CIP # 8021)***
The City of Oxnard has included a “Coordination Clause” in the project bid documents. The Coordination Clause will provide the District access to Well Site No. 4 and a segment of the 30-inch Pumping Trough Pipeline (PTP) main line on Rice Avenue northwest of the Union Pacific Railroad right-of-way during the construction phase.
- ***Pumping Trough Pipeline Metering Improvement Project (CIP # 8022)***
 - o Fully executed Task Order No. 3 with Hamner, Jewell & Associates for acquisition of outstanding easements.
 - o Purchase order issued for eight (8) battery operated electro-magnetic flow meters (includes spare part inventory).
 - o Utility easement deeds for PTP Turnout Nos. 120, 142, 145 and 150 fully executed and recorded with the Ventura County Recorder’s Office.
- ***State Water Interconnection (CIP # 8025)***
The 100% design documents for the project were nearly complete in this reporting period. The interconnection is designed to flow in both directions, delivering water to the Calleguas Municipal Water District (Calleguas) on one end and the City of Ventura (City) on the other. It has a capacity of up to 13,150 acre-feet per year (AFY) and will enable the City to access its State Water Project (SWP) allocation of 10,000 AFY. A connection from the interconnection to the District facilities, once designed and constructed by the District, could deliver the District’s SWP allocation of 3,150 AFY. The City is planning to advertise for bids in August 2024.
- ***Replace El-Rio Trailer (CIP # 8028)***
Final installation and construction tasks for this project have been completed as of July 1, 2024.
- ***Asset Management System – CMMS System (CIP # 8041)***
Staff is in the process of developing an asset management system. In May 2024, Engineering and Operations staff met with Calleguas to learn about their Condition Assessment Program. Staff continued to meet internally to prepare for a shutdown of the OHP planned for November 2024, in connection with the construction of an emergency connection to the OHP by CalAm. Staff are planning to utilize the opportunity to assess the condition of a short segment of the OHP.
- ***Pumping Trough Pipeline Recycled Water Connection – Laguna Road Pipeline (CIP # 8043)***
 - o Mott MacDonald Group, Inc. (MacDonald) was awarded a Construction Management and Inspection Services contract (\$470,969 including 10% contingency) that included a scope to provide constructability review through the final design.
 - o Design was progressed to 100% by MKN and Associates with multiple reviews and input provided by staff and MacDonald.
 - o Initial comments and Mitigated Negative Declaration went through public review with minor public comments and Notice of Determination was submitted to the County of Ventura (County) and the State of California.



- o County permits (Watershed Protection District and Public Works Agency) were initiated, with staff working with County staff to acquire conditional permits prior to construction award for California Department of Water Resources CEQA review.
- o Staff is currently working to finalize the Design and preparing all necessary bid items to release projects for construction bidding in July 2024. Construction is anticipated to be awarded in September 2024 and begin in October 2024.
- ***SCADA Hardware Update (CIP # 8046)***
Staff are currently working on upgrading PLCs for the moss screen and the El Rio VFDs. Also, the install of a new PLC for the Aux and Smolt Bypass flow meters. Additionally, added a level transducer to the Saticoy Master PLC for the Inverted Siphon Project.
- ***Lake Piru Recreation Area Pavement Maintenance Program (CIP # 8047)***
No updates to report.
- ***Condor Point Improvement Project (CIP # 8048)***
No updates to report. This project is complete.
- ***Main Supply Pipeline Sodium Hypochlorite Injection Facility (CIP # 8053)***
This project has been postponed until further notice.
- ***Lake Piru Campground and Recreation Area Renovations (CIP # 8055)***
The 30% design phase for this project was advanced during this reporting period. The 30% design phase remains on track to be completed by December 2024.
- ***Oxnard Hueneme Pipeline Low-Flow Upgrade (CIP # 8056)***
This project has been postponed until further notice.
- ***Critical Well Environmental Improvement (CIP # 8057)***
No updates to report.
- ***Piru Early Warning System Replacement (CIP # 8058)***
Staff has met with a potential contractor to discuss requirements for the new early warning system, specifically migrating from analog to digital with additional functionality and compatibility with the new District radios in the 700 MHz Public Safety Band that ties into the County's Regional Radio Project.
- ***Oxnard Hueneme Well No. 13 Rehabilitation (CIP # 8059)***
This project has been postponed until further notice.
- ***OH Well 14 Energy Efficiency Upgrades (CIP # 8060)***
Staff reviewed the draft Preliminary Design Report (PDR) and provided comments to the design consultant, MNS Engineers, Inc. A revised PDR was submitted for review.



CASH POSITION AND INVESTMENTS OF THE DISTRICT

As of June 30, 2024, the District had a total of \$35.6M in cash and investments. As noted in the cash position report, some of the District's resources are readily available for use while other funds have restrictions that limit how they can be used. The District must adhere to any legal, bond or contractual restrictions placed on funds. However, some restrictions are based on Board designations and can be redirected for other uses if the Board so determines.

The District's cash, cash equivalents and securities held in the various accounts as compared to the prior year are as follows:

	Jun-24	Jun-23
Bank of Sierra	\$ -	\$ 3,631,299
Citizens Business Bank	\$ 6,158,652	\$ 4,910,151
US Bank - 2020 COP Bond Balance	\$ -	\$ 6,113,344
Petty Cash	\$ 5,400	\$ 4,400
County Treasury	\$ 1,884	\$ 1,712
LAIF Investments	\$ 29,413,935	\$ 29,958,313
Total	\$ 35,579,871	\$ 44,619,219

Any restrictions on the remaining \$35.6M are listed in this report.

If you have any questions regarding this report on the financial position, please let me know.

Respectfully submitted,

A blue ink signature of Brian H. Zahn is written over the name and title.

Brian H. Zahn
Chief Financial Officer

ATTACHMENT B



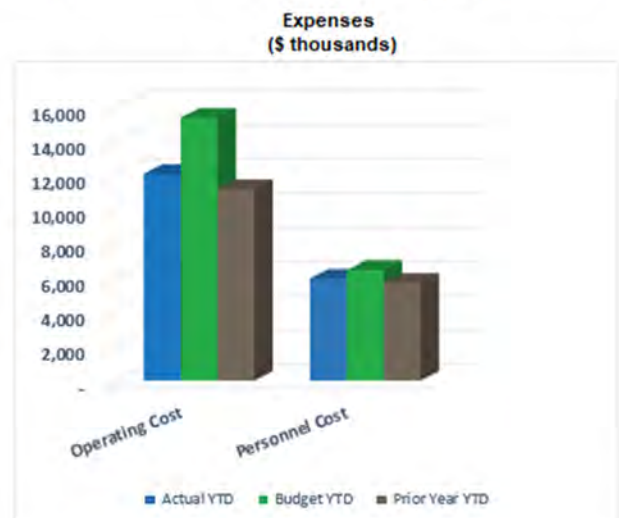
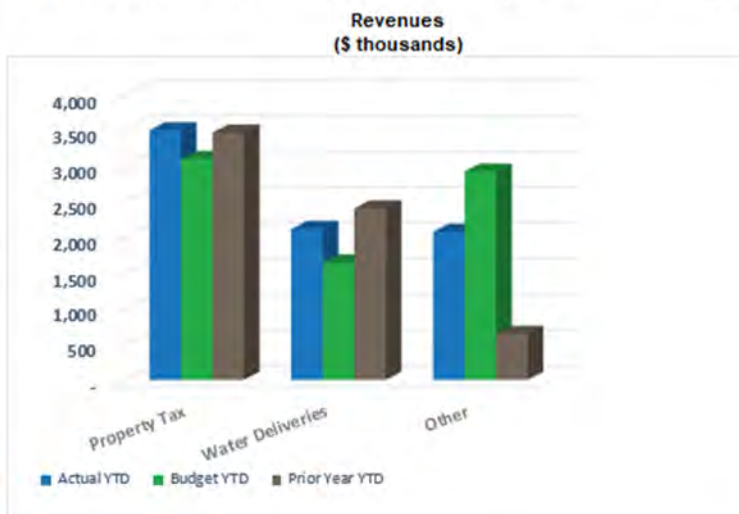
FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

General/Water Conservation Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Water Delivery	2,114	1,641	473	29%	2,402	(288)	-12%
Groundwater	10,264	13,618	(3,355)	-25%	12,133	(1,870)	-15%
Supplemental Water	0	0	0	0%	0	0	0%
Property Taxes	3,501	3,097	404	13%	3,466	34	1%
Earnings on Investments	1,021	294	727	247%	447	574	129%
Other	3,230	6,795	(3,564)	-52%	1,668	1,563	94%
Transfers in	549	0	549	0%	451	98	0%
Total Revenues	20,679	25,444	(4,765)	-19%	20,567	112	1%
Expenses							
Personnel Costs	5,984	6,485	(500)	-8%	5,749	235	4%
Operating Expenditures	12,093	15,386	(3,293)	-21%	11,198	895	8%
Capital Outlay	1,612	1,861	(249)	-13%	94	1,518	1618%
Transfers out	9,679	12,204	(2,525)	-21%	9,164	515	6%
Total Expenses	29,368	35,935	(6,567)	-18%	26,205	3,163	12%
Net Surplus / (Shortfall)	(8,689)	(10,491)	1,802	-17%	(5,638)	(3,051)	54%



Revenue Status v. Budget

- Revenue received through FY 2023-24 is \$20.7M, \$4.8M (19%) below Plan. This is predominantly due to a 25% (37,125 AF) decrease in Groundwater Pumping, which resulted in a \$3.4M Budget shortfall.
- Grant revenue also contributed to the revenue decrease, which was \$2.7M under Plan. Grant revenue pertains to FEMA reimbursement for Lake Piru Flooding and SGM Grant for CIP Projects Ferro-Rose Recharge and Brackish Water Treatment. FEMA reimbursement is delayed and not considered a grant. Funds will be categorized differently in the upcoming fiscal year.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Proceeds from Financing related to the WIFIA Loan are also under Budget (\$2.5M) due to a timing difference. Funds were expected to be received in FY 2023-24, but now projected to be collected in FY 2024-25.
- Underrun is offset by an SDRMA reimbursement of \$1.2M for the Lake Piru Marina Project.
- Earnings on Investments (\$727K), Water Delivery (\$473K), Property Taxes (\$404K), and CIP Transfers In (\$549K) also offset revenue deficit.
- Investment increase is due to higher interest earnings and market value adjustments for LAIF.
- Water Deliveries 29% higher than Plan, which is caused by 5,238 AF more deliveries for the OH, PV, and PTP Pipelines combined.
- Property taxes revenue was higher than predicted.
- Piru Early Warning System Replacement Project (CIP 8058) was put on hold, and therefore funds of \$98K were transferred back to fund 050 to be used for the purchase of New District Radios.
- Alternative Supply Assurance Pipeline Project (CIP 8030) was also completed in FY 2023-24. The remaining \$323K funds were transferred back to fund 050.
- Higher than expected Revenue Reimbursements from the City of San Buenaventura for consulting services (\$267K), a rise in Lake Piru Filming Revenue (\$105K), and a surge in GW/Pipeline Late Fees (\$100K) also helped offset decrease in revenue.

Revenue Status v. Prior Year

- FY 2023-24 Revenue was in line with the prior fiscal year's Revenue with only \$112K (1%) increase in current fiscal.
- Groundwater Revenue is \$1.9M lower in the current fiscal year. Decrease in Groundwater Revenue was the result of a decline in pumping of 14,853 AF (13%) compared to the prior fiscal year.
- Water Deliveries were higher in current fiscal year by 5,087 AF. However, Water Delivery Revenue was lower by \$288K (12%) due to the reduction in M&I Rate that took effect in FY 2023-24.
- Offsetting decreases is an increase in Other/Miscellaneous Revenue (\$1.4M), which consists of the SDRMA reimbursement payment received in FY 2023-24 for the Lake Piru Marina Repairs as well as Filming Revenue.
- Earnings on Investments were also \$574K higher in current fiscal year due to higher interest earnings in FY 2023-24.
- CIP Transfers-In \$98K higher in current fiscal year which was attributed to savings from the Alternative Supply Assurance Pipeline Project (CIP 8030).
- Lake Piru Revenue (\$84K), Grant Revenue (\$53K), and Property Taxes (\$34K) were also higher in the current fiscal year, which contributed to the revenue decrease offset.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Appropriation/Expenditure Status v. Budget

- Total Expenditures were \$29M, \$6.6M (18%) under Plan primarily due to lower than expected Operating Expenditures (\$3.3M) and a delay of CIP Transfers Out (\$2.5M) for Debt Proceeds related to CIP Projects SFD Outlet and SFD PMF.
- Overhead costs \$924K lower than anticipated for FY 2023-24 due to lower expenses charged to Fund 510.
- Principal (\$606K) and Interest payments (\$707K) related to 2020 COP Payments are budgeted as expenses but paid directly to liability.
- Professional Fees (\$513K), related to Public Relations Consulting Services and Environmental Professional Services, are lower than anticipated due to funds not being needed.
- Office Expense \$315K lower than Budget, which is caused lower than expected public and community outreach.
- Personnel Cost (\$500K) also under Plan due to vacant Full-Time positions Environmental Services and Recreation Department.
- Insurance Expense \$142K lower than Plan, which was caused by a decrease in property and liability costs for FY 2023-24 SDRMA Insurance.
- Travel Expenses showed savings of \$137K due to a decline in travel from the Board of Directors and General Manager.
- Capital Outlay (\$249K) also below Budget as a result of a FY 2023-24 End of Year GASB journal entry for the District's subscriptions.

Appropriation/Expenditure Status v. Prior Year

- Expenditures are \$3.2M (12%) higher in the current fiscal year largely due to an increase in Capital Outlay Expense of \$1.5M.
- Capital Outlay increase was caused by supplemental funds approved by the Board for the Lake Piru Marina Replacement Project, which is anticipated to be reimbursed by FEMA. In addition, there were new vehicle purchases for the General Manager, Chief Operations Officer, and a Patrol Vehicle for the Recreation Department. Lastly, there were also purchases of New District Radios, Gator Vehicle for El Rio, and two Can-Am Defenders for Saticoy.
- Operating Expenditures (\$895K) are also higher in FY 2023-24 compared to the last fiscal year.
- Professional Fees up \$631K, which was attributed to the first installment payment for a lawsuit settlement.
- Maintenance in the current fiscal year increased by \$232K due to an increase in maintenance in Lake Piru Recreation and aging District Equipment/Vehicles.
- Office Expense higher in FY 2023-24 by \$97K due to Checkpoint Software purchase that was budgeted in fund 510 and expensed using overhead allocation.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Salaries and Benefits (\$235K) are higher in the current fiscal year, which is caused by a Board approved 4% COLA increase and annual merit increases.
- Transfers-Out for Capital Improvement Projects higher by \$515K in FY 2023-24, which is caused by multiple projects transitioning into construction phase.

Fund Balance

- The ending undesignated working capital balance at the end of FY 23-24 is approximately \$4.1M.
- The District's reserve policy requires a \$4 to \$5M undesignated balance, which has been met.

FY 2023-24 Fourth Quarter Financial Review

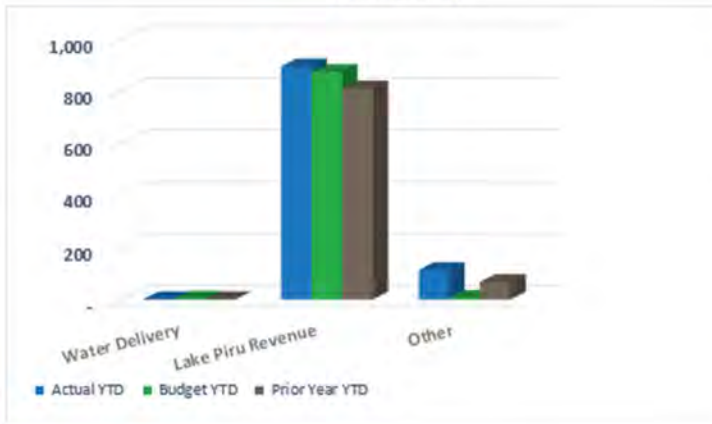
July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

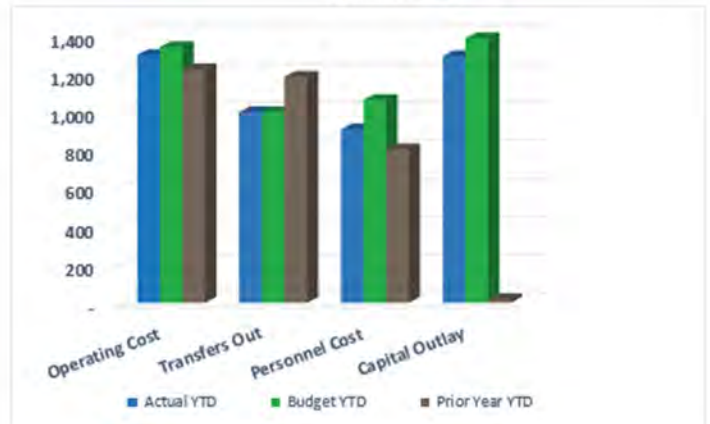
Recreation Sub-Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Water Delivery	1	3	(2)	-60%	1	0	18%
Earnings on Investments	0	0	0	0%	0	0	0%
Lake Piru Revenue	896	875	21	2%	812	84	10%
Other	113	5	108	1998%	68	46	67%
Total Revenues	1,011	883	127	14%	881	130	15%
Expenses							
Personnel Costs	910	1,065	(155)	-15%	805	105	13%
Operating Expenditures	1,300	1,342	(42)	-3%	1,225	75	6%
Capital Outlay	1,295	1,389	(94)	-7%	19	1,276	6845%
Transfers out	1,001	1,001	0	0%	1,186	(186)	-16%
Total Expenses	4,506	4,797	(291)	-6%	3,235	1,270	39%
Net Surplus / (Shortfall)	(3,495)	(3,913)	418	-11%	(2,355)	(1,140)	48%

Revenues
(\$ thousands)



Expenses
(\$ thousands)



Revenue Status v. Budget

- Operational Revenue received through FY 2023-24 above Budget by \$127K (14%), which is mainly due to Other/Miscellaneous Revenue (\$108K) that consist of Filming Fees, Shower Fees and Misc. Sales. Lake Piru Revenue (\$21K) was also higher than Plan which was related to Day Use, Camping, Boating fees and reservations. Slightly offsetting increase is Water Delivery Revenue (\$2K).

Revenue Status v. Prior Year

- FY 2023-24 Operational Revenue \$130K (15%) higher due to increases in Day Use, Camping, Boating fees, reservations, and filming fees in the Current Year.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Appropriation/Expenditure Status v. Budget

- Total expenditure were \$4.5M, \$291K (6%) under Budget due to Personnel Costs (\$155K), Capital Outlay (\$94K), and Operating Expenditures (\$42K).
- Salaries and Benefits below Plan due to two vacant Park Ranger Cadet positions and resignation of Chief Park Ranger.
- Capital Outlay under Budget caused by Supplemental Appropriation funds for Lake Piru Marina Project not fully used. Also due to a delay in purchase of a Recreation Department Replacement Truck and 4000 Gallon Water Truck.
- Professional Fees (\$35K) under Budget due to under-utilized Grant Solicitation and Legal fees.
- Overhead Costs (\$68K), Permits/Licenses (\$15K), and Office Expenses (\$13K) are lower than forecast due to delay in needed expenses.
- Savings are partially offset by an increase in Miscellaneous Expenses (\$43K) that pertained to higher-than-expected restroom rentals and unplanned inventory purchases for the new Lake Piru Store.
- Maintenance is also higher than Budget by \$15K, due to aging vehicles within the department.
- Utilities higher than anticipated by \$24K which is related to ongoing rate increases.

Appropriation/Expenditure Status v. Prior Year

- Expenditures are \$1.3M (39%) higher in the current year mainly due to an increase in Capital Outlay Expenses (\$1.3M).
- Capital Outlay increase pertains to a Board approved Supplemental Appropriation for the Lake Piru Marina Project, which was a total of \$1.1M. As well as the purchase of District Radios and Lake Piru Security System.
- Salaries and Benefits (\$105K) are also higher in the current fiscal year due to the Board Approved 4% COLA increase and annual merits increases.
- Maintenance (\$203K), Overhead Cost (\$24K), and Miscellaneous Expenses (\$12K) are also higher in FY 2023-24 versus the prior fiscal year.
- Offsetting increase are lower CIP Transfers Out (\$186K) in PY for the Lake Piru Campground and Recreation Area Renovations.
- Utilities (\$92K), Permits/Licenses (\$46K), Office Expense (\$23K), and Water Chemicals (\$15K) also offset increase in current fiscal year.

FY 2023-24 Fourth Quarter Financial Review

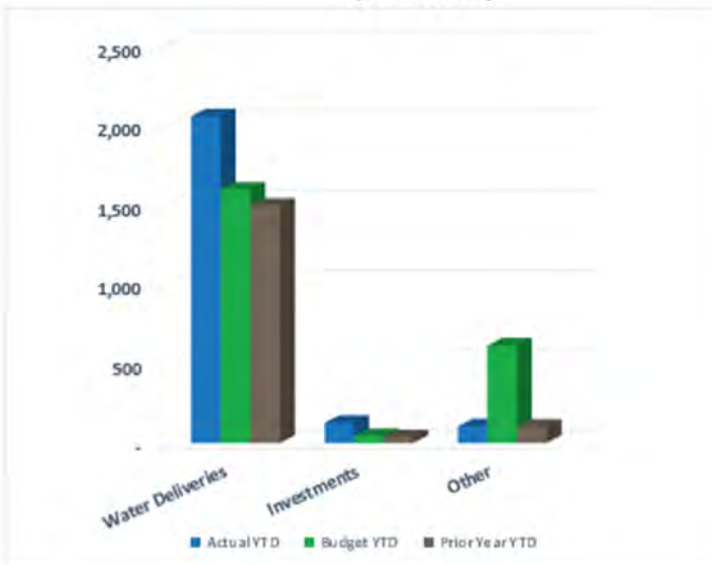
July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

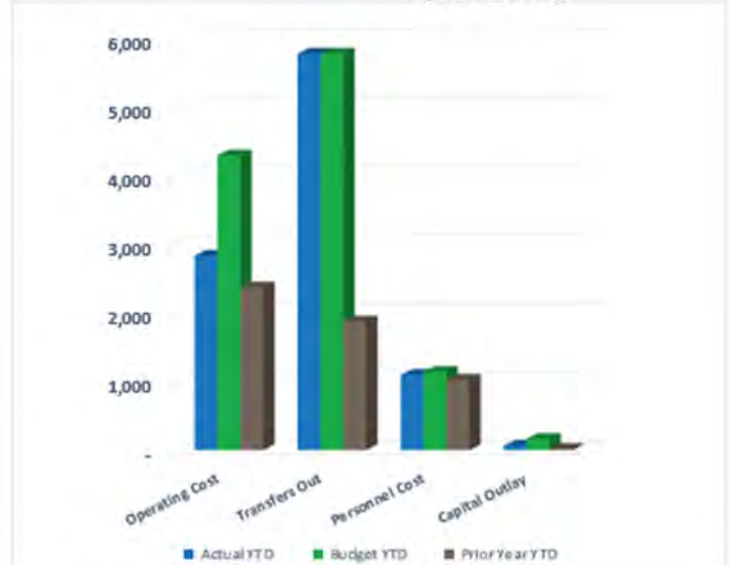
Freeman Diversion Fund (Zone B)

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Groundwater	4,502	6,117	(1,615)	-26%	3,822	680	18%
Water Delivery	2,048	1,587	460	29%	1,487	561	38%
Earnings on Investments	126	44	82	185%	37	89	242%
Other	185	611	(426)	-70%	116	69	59%
Transfers in	0	0	0	0%	86	(86)	0%
Total Revenues	6,861	8,359	(1,498)	-18%	5,548	1,314	24%
Expenses							
Personnel Costs	1,099	1,143	(44)	-4%	1,027	72	7%
Operating Expenditures	2,841	4,304	(1,464)	-34%	2,375	466	20%
Capital Outlay	65	166	(101)	-61%	17	48	283%
Transfers out	5,790	5,790	0	0%	1,879	3,911	208%
Total Expenses	9,795	11,403	(1,608)	-14%	5,298	4,497	85%
Net Surplus / (Shortfall)	(2,934)	(3,044)	110	-4%	250	(3,184)	-1275%

Revenues
(\$ thousands)



Expenses
(\$ thousands)



Revenue Status v. Budget

- Revenue received through year was \$6.9M, down \$1.5M (18%) primarily caused by Groundwater revenue down \$1.6M (26%) due to less AF pumped throughout the year.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Proceeds from Financing also down from plan \$560K delayed due to timing issues.
- Offsetting the deficit is Water Deliveries revenue \$460K (29%) higher than Plan, which is caused by 5,898AF more than budgeted deliveries for the OH, PV, and PTP Pipelines combined.
- Earnings on Investments also exceeded the Budget by \$82K (185%) through the year.

Revenue Status v. Prior Year

- Current Year revenue is higher by \$1.3M (24%). The increase is primarily due to Pipeline Deliveries up \$561K as 5,122AF more were delivered in FY 23-24 amongst three pipelines and Groundwater deliveries were up \$680K (18%).
- Grant Revenue received is higher by \$65K (472%) compared to FY 22-23 for funding related to NFWF grant.
- Slightly offsetting the increase is lower Transfers In by \$86K in FY 22-23 for completed Floc Building and Recycled Water Projects.

Appropriation/Expenditure Status v. Budget

- Total expenditure through year are \$9.8M, which is \$1.6M (14%) below Plan. Savings predominantly in Operating Expenditures of \$1.5M (34%) and under-utilized Capital Outlay costs of \$101K due to delay in purchase of Freeman flow meters and gear box.
- Professional services down \$503K primarily due to savings in Environmental consultants. Additional savings in salaries \$44K and Overhead costs by \$262K.
- Principal (\$574K) and Interest (\$20K) payments related to 2020 COP are budgeted as expense but paid directly to liability.
- Additional Operating Expenditures under Budget are Rents and Leases (\$31K), Fuel Expenses (\$30K) and Permits/Licenses (\$31K).
- Savings are partially offset by an increase in purchases for Safety Supplies of \$6K and Office Expenses of \$23K.

Appropriation/Expenditure Status v. Prior Year

- Total Expenditures are \$4.5M (85%) higher than in the Prior Year, which is largely due to higher CIP transfers out of \$3.9M related to the Freeman Expansion Project.
- Operating Expenditures (\$466K), Personnel Cost (\$72K), and Capital Outlay (\$48K) are also higher in FY 2023-24.
- Contributing to the Operating Expenditures overrun from prior year are Professional Fees (\$411K) Water Treatment Chemicals (\$41K), Maintenance (\$115K), and Overhead costs (\$30K).
- Salaries and Benefits (\$72K) are also higher than prior year due to the Board approved 4% COLA increase, annual merit increases and unfunded liability payment.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Fund Balance

- The ending undesignated working capital balance at the end of FY 23-24 is approximately -\$943K.
- The District's reserve policy requires an undesignated balance of \$1.5M which has not been met.

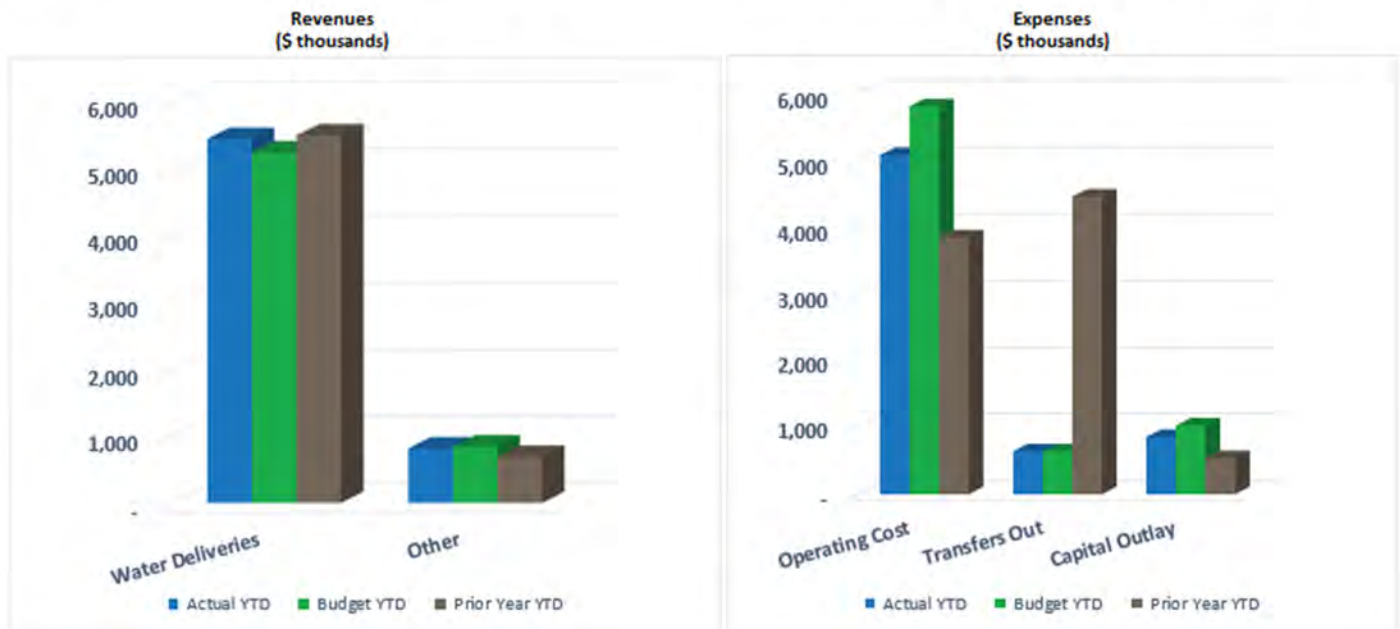
FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Oxnard Hueneme Pipeline Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Water Delivery	5,307	5,246	62	1%	5,498	(190)	-3%
Earnings on Investments	66	63	3	5%	88	(21)	-24%
Grants	0	250	(250)	-100%	6,276	(6,276)	-100%
Other	736	769	(33)	-4%	590	146	25%
Total Revenues	6,109	6,328	(218)	-3%	12,451	(6,342)	-51%
Expenses							
Personnel Costs	1,195	1,024	171	17%	883	312	35%
Operating Expenditures	3,887	4,786	(899)	-19%	2,968	919	31%
Capital Outlay	848	1,019	(172)	-17%	533	315	59%
Transfers out	632	632	(0)	0%	4,461	(3,829)	-86%
Total Expenses	6,561	7,461	(900)	-12%	8,844	(2,283)	-26%
Net Surplus / (Shortfall)	(452)	(1,133)	681	-60%	3,608	(4,059)	-113%



Revenue Status v. Budget and v. Prior Year

- Total Revenue \$218K (3%) under Budget for the fourth quarter of FY 2023-24, which was near the forecasted Budget.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Under budget is primarily due to the timing of Grant Revenue (\$250K) for Prop 1 Round 2 IRWM Grant revenue expected to be received in FY 24-25. Compared to the prior year, Grant Revenue is \$6.3M lower due to multiple grants being completed in FY 2022-23.
- Fox Canyon Revenue was under Budget by \$125K for year and down \$34K compared to the prior year due to the decrease in water deliveries.
- Slightly offsetting decrease was transfers in of \$70K, up by \$67K compared to FY 2022-23, this was due to CIP 8036 being completed and remaining funds transferred in.
- Water Deliveries also above budget by \$197K due to 551AF (5%) more water delivered than planned.

Appropriation/Expenditure Status v. Budget and v. Prior Year

- Total Expenses \$900K under Budget for FY 2023-24, which was primarily due to lower-than-expected Operating Expenditures (\$900K).
- Utilities (\$60K) below Budget due to decreased costs on Edison invoices.
- Contractual Services (\$84K) below Budget primarily due to underutilized Environmental professional fees.
- Maintenance Costs of \$371K were also lower (\$187K) than Plan but increased by \$41K compared to the prior year.
- Capital Outlay Expenditures (\$172K) shortcoming caused by a delay in gas engine piping improvements and Overhead costs under by \$243K.
- Principal payments \$285K under Plan due to payments budgeted as expense but paid directly to liability.
- Offsetting savings are Personnel Cost of \$171K (17%) as there was higher than expected work for the OH Pipelines, OH Booster Plant, and OH Well repairs resulting in increased salary costs.
- Compared to the last fiscal year, total expenditures were lower by \$2.3M (26%) in the current fiscal year. This was predominantly attributable to a decrease in Transfers-Out (\$3.8M) for CIP Projects.
- Offsetting savings over the prior year are increases in Personnel Costs (\$312K), Maintenance (\$41K), Insurance (\$42K), Treatment Chemicals (170K) Utilities (\$379K), and Capital Outlay (\$315K).

Fund Balance

- The ending undesignated working capital balance for FY 23-24 is approximately \$542K.
- The District's reserve policy requires an undesignated balance of \$1.1M for this fund which was not met.

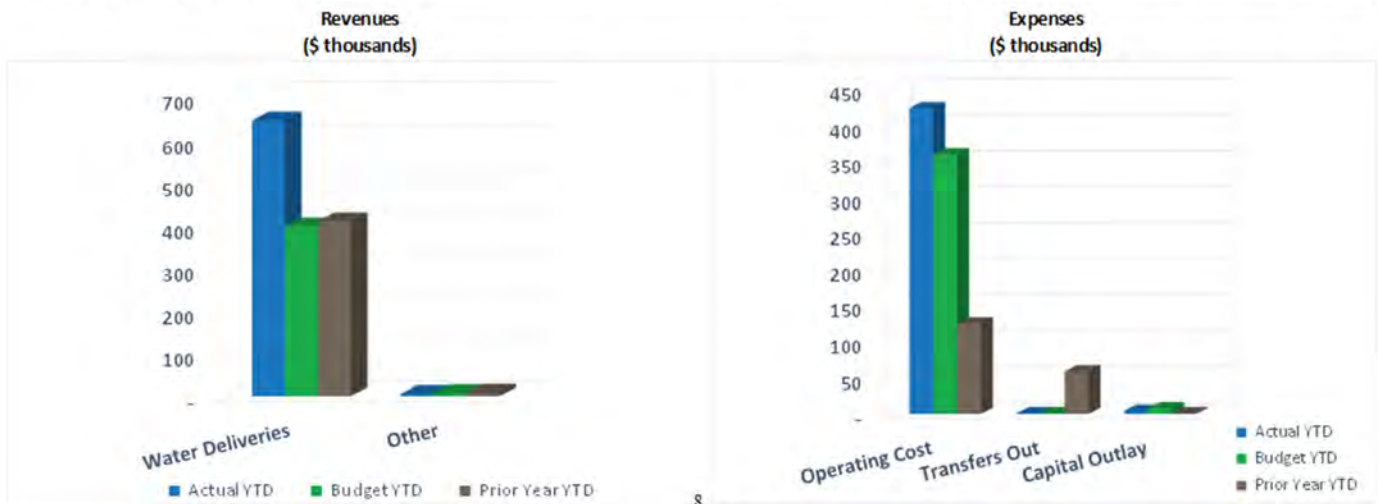
FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Pleasant Valley Pipeline Fund

in \$ thousands	CY Actuals	CY Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Water Delivery	645	398	247	62%	410	235	57%
Earnings on Investments	50	15	36	244%	10	41	419%
Other	5	7	(2)	-33%	8	(3)	-42%
Total Revenues	701	420	280	67%	428	272	64%
Expenses							
Personnel Costs	118	63	55	87%	52	66	127%
Operating Expenditures	305	297	8	3%	74	232	313%
Capital Outlay	4	8	(4)	-47%	1	3	341%
Transfers out	1	1	0	0%	59	(58)	-98%
Total Expenses	429	370	59	16%	186	243	131%
Net Surplus / (Shortfall)	272	51	221	438%	243	29	12%



Revenue Status v. Budget and v. Prior Year

- Revenue received \$701K through year end, over budget by approximately \$280K (67%).
- Water Delivery revenue greater than Budget by \$247K (62%). Due to availability of surface water, 5,152 AF more than budgeted water was delivered through year end.
- Revenue has an increase of \$272K (64%) from prior fiscal year, as there was 4,274 AF more water delivered in FY 23-24.

Appropriation/Expenditure Status v. Budget and v. Prior Year

- Total Expenditures are over Budget by \$59K (16%) this fiscal year. Operating Expenditures were higher than planned primarily in utility costs (\$20K), this was due to an increase in electricity usage. Treatment chemicals specifically for the Moss Screen was also higher than budgeted.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Additionally contributing to the overrun are Salaries and Benefits by \$55K (87%) due to additional staff time spent working on Pleasant Valley Pipeline.
- Slightly offsetting the overrun are savings in Capital Outlay (\$4K), Professional Fees (\$6K) and Overhead costs (\$13K).
- Compared to prior year, expenses are up \$243K principally due to Operating Expenditures up \$232K due to PV Reservoir maintenance work. Salaries and Benefits are also higher by \$66K from the prior year because of board approved 4% COLA increase and annual merit increases.

Fund Balance

- The ending undesignated working capital balance at the end of FY 23-24 is approximately \$961K.
- The District's reserve policy requires a \$258K minimum undesignated balance which is met.

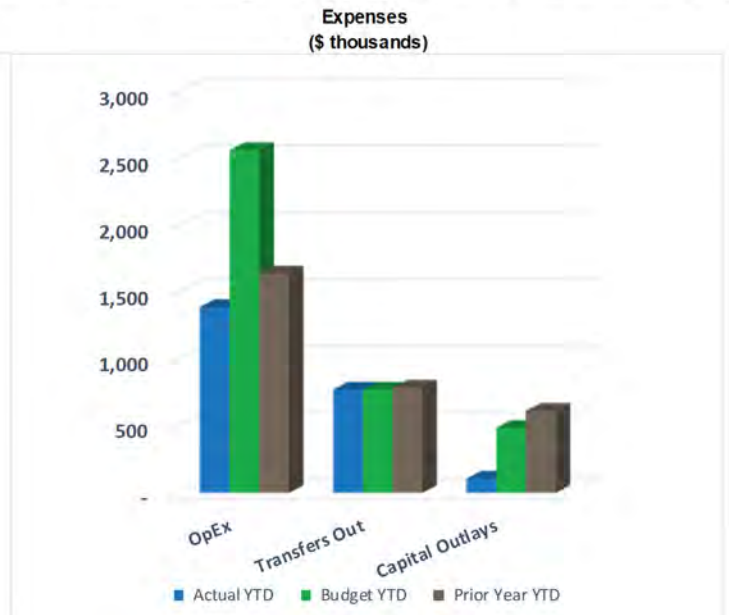
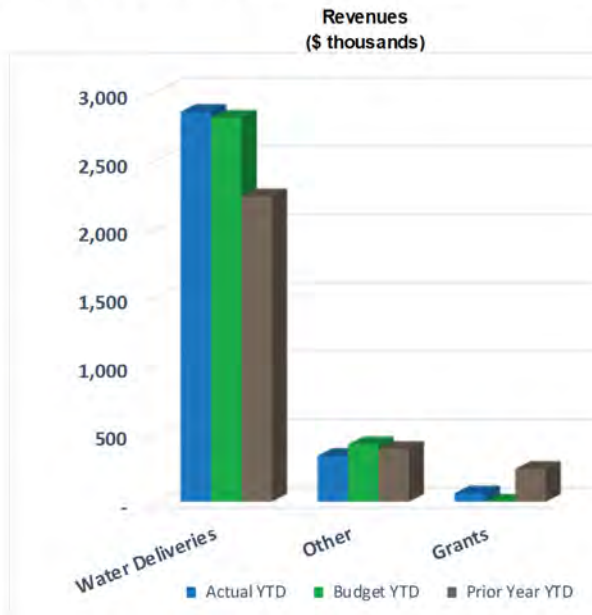
FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

Pumping Trough Pipeline Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Water Delivery	2,849	2,806	43	2%	2,232	617	28%
Earnings on Investments	108	32	76	241%	42	66	158%
Grants	61	0	61		239	(179)	0%
Other	227	387	(160)	-41%	343	(117)	-34%
Total Revenues	3,245	3,225	21	1%	2,857	388	14%
Expenses							
Personnel Costs	367	370	(3)	-1%	317	50	16%
Operating Expenditures	1,026	2,195	(1,169)	-53%	1,326	(299)	-23%
Capital Outlay	109	488	(379)	-78%	615	(506)	-82%
Transfers out	775	775	0	0%	789	(14)	-2%
Total Expenses	2,277	3,829	(1,552)	-41%	3,046	(769)	-25%
Net Surplus / (Shortfall)	968	(604)	1,572	-260%	(189)	1,157	-611%



Revenue Status v. Budget

- Revenue received through year end was \$3.2M, which was on target with Budget.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Slight surplus of \$21K (1%) was primarily caused by State Grants in the amount of \$61K which was offset by lower Fox Canyon GMA Revenue (\$356K) due to more surface water deliveries. CIP Transfers In also over budget (\$198K) related to a CIP Board approved allocation correction.
- Earnings on Investments over budget by \$76K due to Market Value Adjustment and higher than anticipated rates.
- Water Deliveries over Plan by \$76K which was caused by 195 AF (4%) more deliveries than expected.

Revenue Status v. Prior Year

- Revenue is up \$388K (14%) from prior year. This is primarily due to \$617K (28%) increase in Water Delivery Revenue which was attributed to higher rates and 281 AF more water deliveries in FY 2023-24.
- Earnings on Investments up \$66K (158%) from prior year due to higher interest rates.
- Offsetting Revenue increase was Grants (\$178K) and Fox Canyon GMA Revenue of (\$133K), due to more surface water deliveries in current fiscal.

Appropriation/Expenditure Status v. Budget

- Total expenditures through fourth quarter are \$2.3M, \$1.6M (41%) below Budget predominantly due to lower Operating Expenditures of \$1.2M (53%).
- Utilities were \$298K lower than projected which was caused by less electricity used for well pumping.
- Maintenance \$186K and Overhead costs \$118K under Plan.
- Fox Canyon GMA expenditure \$103K under projection because of more surface water deliveries.
- Principal payments of \$354K under Budget due to 2020 COP payments budgeted as expense but paid directly to liability.
- Professional fees underutilized by \$52K because of a delay in PTP infrastructure analysis.
- Capital outlay also \$379K lower than anticipated due to fewer than planned PTP isolation valves and VFD replacements.

Appropriation/Expenditure Status v. Prior Year

- Compared to prior fiscal year, expenditures are lower by \$769K (25%) predominantly due to lower Capital Outlay expenditures of \$506K (82%). This was attributed to PTP Booster Replacement and PTP Pump #3 Rehabilitation that occurred in FY 2022-23.
- Operating Expenditures are also lower by \$299K (23%) in FY 2023-24 compared to last fiscal year. This is largely caused by lower electricity costs and Fox Canyon charges due to significant surface water deliveries in the current fiscal year.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Offsetting expenditures decrease is higher Personnel Costs (\$50K) due to recent new hires and filling of open District positions in FY 2023-24.

Fund Balance

- The ending undesignated working capital balance at the end of FY 2023-24 is approximately \$1.7M.
- The District's reserve policy requires an undesignated balance of \$1M for this fund which has been met.

FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

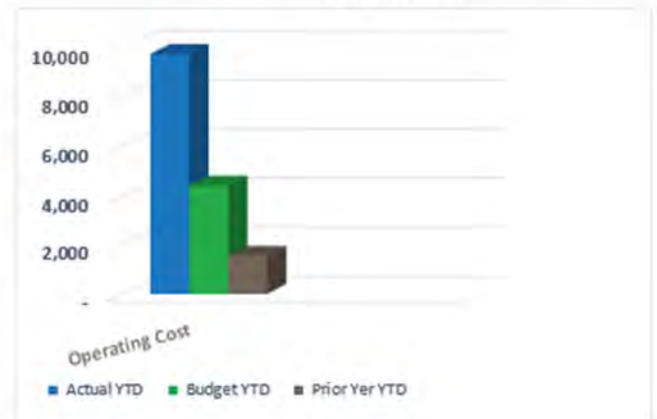
State Water Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Revenues							
Earnings on Investments	230	67	163	244%	80	150	187%
Property Taxes	7,018	5,460	1,558	29%	3,205	3,813	119%
Total Revenues	7,249	5,527	1,722	31%	3,286	3,963	121%
Expenses							
Personnel Costs	0	0	0	0%	0	0	0%
Operating Expenditures	9,790	4,401	5,390	122%	1,558	8,233	529%
Capital Outlay	0	0	0	0%	0	0	0%
Debt Service	0	0	0	0%	0	0	0%
Transfers out	0	0	0	0%	0	0	0%
Total Expenses	9,790	4,401	5,390	122%	1,558	8,233	529%
Net Surplus / (Shortfall)	(2,541)	1,126	(3,668)	-326%	1,728	(4,269)	-247%

Revenues
(\$ thousands)



Expenses
(\$ thousands)



Revenue Status v. Budget and v. Prior Year

- Revenue received through Q4 was \$7.2M, up by \$1.7M (31%) over budget.
- Property tax revenue was favorable by \$1.6M (28%) largely due to higher than budgeted secured and passthrough taxes. Earnings on investments also over Plan by \$163K due to GAAP market value adjustment to LAIF and an increased rate of return.
- Compared to Prior Year, revenue is up \$4M (121%) due to increase in property taxes (119%) and increase in Earnings (187%).

Appropriation/Expenditure Status v. Budget and v. Prior Year

- Total expenditures of \$9.7M over budget by \$5.4M (122%). This is due to higher variable costs from State Water Purchases and additional water purchases from Casitas Mutual Water, Palmdale Water and Santa Clarita Valley Water.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

100% of Fiscal Year Completed

- Compared to Prior Year, expenditures are up by \$8.2M (529%). This is also due to water purchases in FY 23-24.

Fund Balance

- The ending undesignated working capital balance at the end of FY 23-24 is approximately \$5.0M. This is within the District's fund reserve maximum of \$5.5M.
- The entire fund balance is designated for the fixed and variable costs related to the District's State Water Project allocation of 5,000 acre feet per year plus allowable Table A water.



FY 2023-24 Fourth Quarter Financial Review

July 1, 2023, through June 30, 2024

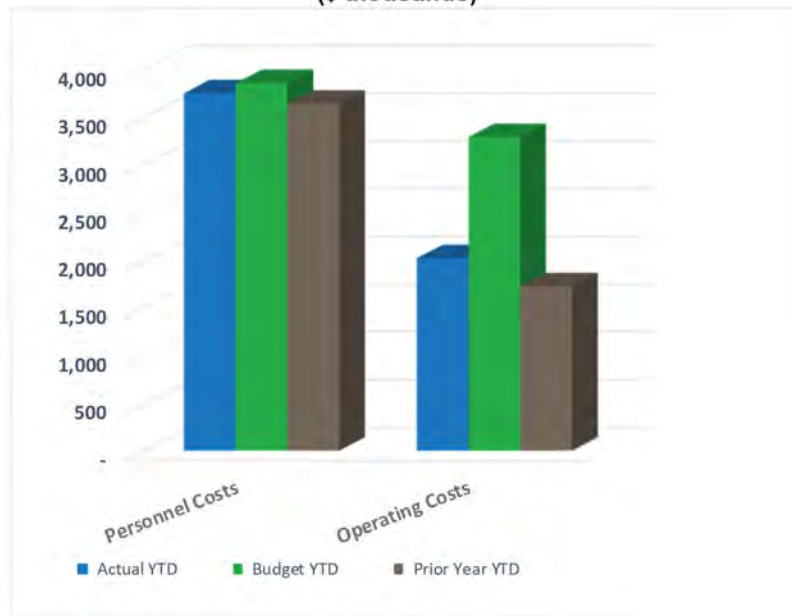
100% of Fiscal Year Completed

Overhead Fund

in \$ thousands	CY Actuals	CY Revised Budget	Variance	% Variance	PY Actuals	Variance	% Variance
Expenses							
Personnel Costs	3,745	3,853	(107)	-3%	3,636	110	3%
Operating Expenditures	2,018	3,286	(1,268)	-39%	1,724	294	17%
Capital Outlay	0	385	(385)	0%	0	0	0%
Total Expenses	5,764	7,523	(1,760)	-23%	5,360	404	8%

Expenses

(\$ thousands)



Appropriation/Expenditure Status v. Budget and v. Prior Year

- Expenditures under budget by \$1.8M (23%).
- The largest savings were in Professional Fees, \$1.1M primarily due to Prof. Fees – Other savings of \$500K. Contributing to the variance are Personnel Costs \$107K, Office Exp \$123K with savings of \$61K in Computer licensing/Support and underutilized Travel of \$47K.
- Slightly offsetting the savings are Telephone Expenses, which were \$25K over plan mainly due to District Telephone – Landlines expenses increasing with additional district cellphones being issued.
- Capital Outlay expenditures of \$385K for Checkpoint Enterprise and new District Radios were distributed out of Overhead Fund using the District Overhead allocation.
- Compared to prior year, expenditures are higher by \$404K (8%). This is mainly due to Office Expenses of \$127K, Prof Fees \$102K and salaries \$110K.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Tracy Oehler, Executive Assistant/Clerk of the Board

Date: October 2, 2024 (October 9, 2024, meeting)

Agenda Item: 2.8 Ventura Local Agency Formation Commission Nomination for Ventura LAFCo Special District Regular Member
Motion

Staff Recommendation:

The Board will consider nominating a candidate to fill a position expiring December 31, 2024 and adopt a Resolution nominating the board member.

Background:

As explained in the LAFCo cover letter to the District (Attachment A), a special district regular member's term will be expiring on December 31, 2024. As such, an appointment must be made for the subsequent four-year term (January 1, 2025 through December 31, 2028) (Govt. Code §56334).

The Board will discuss the nomination and make a motion and vote for one Regular Member. Staff will prepare the Resolution with the nominated Board Member (Attachment B). **Nomination resolutions and candidate statements/resumes must be received by 5p.m. on Friday, October 11, 2024.**

If at the end of the nominating period only one candidate is nominated, that candidate shall be deemed appointed. If two or more candidates are nominated, LAFCo staff will prepare and deliver a ballot and voting instructions to each eligible district. For the election to be valid, a quorum of the 29 independent special districts (Attachment C) must submit valid ballots.

Fiscal Impact: None.

Attachments:

- A LAFCo Letter to UWCD
- B Resolution
- C Independent Special District List

ATTACHMENT A



VENTURA LOCAL AGENCY FORMATION COMMISSION
801 S. Victoria Avenue, Suite 301, Ventura, CA 93003
(805) 654-2576
ventura.lafco.ca.gov

CALL FOR NOMINATIONS LAFCO SPECIAL DISTRICT REGULAR MEMBER

August 28, 2024

Chair of the Board
United Water Conservation District
1701 N. Lombard St, Ste 200
Oxnard, CA 93030

RE: CALL FOR NOMINATIONS – Ventura LAFCo Special District Regular Member

Dear Chair of the Board:

The term of LAFCo special district regular member Mary Anne Rooney will expire on December 31, 2024. As such, an appointment must be made for the subsequent four-year term (January 1, 2025 through December 31, 2028) (Govt. Code § 56334). Pursuant to state law, LAFCo special district members are appointed by the independent special district selection committee, which consists of the presiding officer of the legislative body of each independent special district in the county (Govt. Code § 56332).

Pursuant to Govt. Code 56332(f), I have determined that a meeting of the committee for the purpose of selecting a regular member to LAFCo is not feasible due to the likelihood that a quorum will not be achieved. Thus, both the nominating process and the election itself will be conducted by mail (most special districts have consented to conducting the election via electronic mail).

If your district wishes to nominate an individual to be a candidate for the regular special district member on LAFCo, please submit a nominating resolution (attached is a sample resolution for your use) and a candidate's statement and/or resume of no more than one page to Kai Luoma, Executive Officer, at Ventura LAFCo either by mail or via email (for those districts that have previously consented to email – see attached list).

The deadline for submitting nominating resolutions and candidate statements/resumes is 5:00 p.m., Friday, October 11, 2024. Any nomination submitted after the deadline will not be considered.

If at the end of the nominating period only one candidate is nominated, that candidate shall be deemed appointed. If two or more candidates are nominated, LAFCo staff will prepare and

Chair of the Board, United Water Conservation District
CALL FOR NOMINATIONS – Ventura LAFCo Special District Regular Member
August 28, 2024
Page 2

deliver a ballot and voting instructions to each eligible district. For the election to be valid, a quorum of the 29 independent special districts must submit valid ballots.

Thank you for your attention to this matter. Please let me know if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kai Luoma', with a stylized flourish at the end.

Kai Luoma
Executive Officer

c: General Manager

ATTACHMENT B

RESOLUTION OF THE [DISTRICT NAME]

NOMINATING [NAME OF BOARD MEMBER] TO FILL THE REGULAR SPECIAL DISTRICT MEMBER TERM ON THE VENTURA LOCAL AGENCY FORMATION COMMISSION FROM JANUARY 1, 2025 THROUGH DECEMBER 31, 2028

WHEREAS, the Executive Officer of the Ventura Local Agency Formation Commission (LAFCo) has notified the District of an anticipated regular member vacancy on LAFCo for the four-year term beginning January 1, 2025 and ending December 31, 2028. Pursuant to Government Code Section 56332(c), the LAFCo Executive Officer has issued a call for written nominations to fill the anticipated vacancy to each eligible district, and

WHEREAS, at the time and in the manner required by law, the [NAME OF DISTRICT] met on [DATE] to consider the call for nominations by the LAFCo Executive Officer.

NOW THEREFORE BE IT RESOLVED by the [NAME OF DISTRICT] as follows:

- 1) [NAME OF BOARD MEMBER] is hereby nominated to fill the anticipated independent special district regular member vacancy on the Ventura LAFCo for the four-year term beginning January 1, 2025 and expiring December 31, 2028.
- 2) The General Manager shall transmit a signed copy of this Resolution and a copy of the resume or candidate statement for [NAME OF BOARD MEMBER] to the Ventura LAFCo Executive Officer.

This resolution was adopted on [DATE].

AYES

NOES

ABSTAINS

Dated: _____

Chair, [NAME OF DISTRICT] _____

ATTACHMENT C



VENTURA LOCAL AGENCY FORMATION COMMISSION

801 S. VICTORIA AVENUE, SUITE 301 • VENTURA, CA 93003

TEL (805) 654-2576 • FAX (805) 477-7101

WWW.VENTURA.LAFCO.CA.GOV

INDEPENDENT SPECIAL DISTRICTS IN VENTURA COUNTY

As of August 2024

1. Bardsdale Public Cemetery District
2. Bell Canyon Community Services District
3. Blanchard/Santa Paula Library District*
4. Calleguas Municipal Water District*
5. Camarillo Health Care District*
6. Camrosa Water District*
7. Casitas Municipal Water District*
8. Channel Islands Beach Community Services District*
9. Conejo Recreation & Park District*
10. El Rancho Simi Public Cemetery District*
11. Fillmore-Piru Memorial District
12. Fox Canyon Groundwater Management Agency*
13. Hidden Valley Municipal Water District
14. Meiners Oaks Water District*
15. Ojai Valley Sanitary District*
16. Ojai Water Conservation District
17. Oxnard Drainage District No. 1*
18. Oxnard Drainage District No. 2*
19. Oxnard Harbor District*
20. Piru Public Cemetery District*
21. Pleasant Valley County Water District
22. Pleasant Valley Recreation & Park District*
23. Rancho Simi Recreation & Park District*
24. Saticoy Sanitary District
25. Triunfo Sanitation District*
26. United Water Conservation District*
27. Ventura County Resource Conservation District*
28. Ventura Port District*
29. Ventura River County Water District*

* Special Districts that have provided written consent to conduct the election via email as of August 28, 2024.



STAFF REPORT

To: UWCD Board of Directors

From: Mauricio E. Guardado, Jr., General Manager

Date: October 1, 2024 (October 9, 2024 Meeting)

Agenda Item: 2.9 Overview of the District's Strategic Plan
Information Item

Staff Recommendation:

The General Manager will present an overview of the District's Strategic Plan.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Tracy Oehler, Executive Assistant/Clerk of the Board

Date: October 1, 2024 (October 9, 2024, meeting)

Agenda Item: 3.1 Approval of the September 11, 2024 Regular Meeting Minutes
Motion

Staff Recommendation:
Approve the minutes.



Board of Directors
Sheldon G. Berger President
Lynn E. Maulhardt, Vice President
Catherine P. Keeling, Secretary/Treasurer
Keith Ford
Mohammed A. Hasan
Steve Huber
Gordon Kimball

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

MINUTES REGULAR BOARD MEETING

**Wednesday, September 11, 2024, 12:00 p.m.
Board Room, UWCD Headquarters
1701 N. Lombard Street, Oxnard CA 93030**

ROLL CALL

Present: Directors Ford, Hasan, Huber, Maulhardt, Keeling (arrived 12:32 p.m.)
Kimball, and President Berger

Absent: None

1. FIRST OPEN SESSION: 12:00 p.m.

1.1 Public Comments: None

1.2 EXECUTIVE (CLOSED) SESSION: 12:05 p.m.

The Board will discuss matters outlined in the attached Executive (Closed) Session Agenda (Exhibit A).

2. SECOND OPEN SESSION AND CALL TO ORDER: 1:01 p.m.

2.1 Pledge of Allegiance: Director Huber

2.2 Public Comment: Donny Aiken

2.3 Approval of Agenda

Action: M/S/C (Maulhardt/Hasan) to approve the agenda.

Voice Vote: All Ayes

2.4 Oral Report Regarding Executive (Closed) Session

District Legal Counsel Suparna Jain stated there was no reportable action.

2.5 Board Members' Activities Report

Received and filed.

2.6 General Manager's Report

Received and filed.

3. CONSENT CALENDAR

Action: M/S/C (Hasan/Keeling) to approve the consent calendar.

Vote: Ayes: Ford, Hasan, Kimball, Maulhardt, and Berger; Noes: None; Absent: None; Abstain: Huber and Keeling

3.1 Approval of the July 10, 2024 Regular Meeting Minutes and the July 30, 2024 Special Meeting Minutes

Approved the minutes.

Action: M/S/C (Hasan/Keeling) to approve the consent calendar.

Vote: Ayes: Ford, Hasan, Huber, Keeling, Kimball, Maulhardt, and Berger; Noes: None; Absent: None

3.2 Groundwater Basin Status Reports

Received and filed.

3.3 Investment Monthly Reports (June 2024 and July 2024)

Received and filed.

3.4 Approval of the District's Conflict of Interest Code

Approved the District's Conflict of Interest Code and directed staff to submit the Local Agency Biennial Notice the County of Ventura.

4. MONTHLY REPORTS BY DEPARTMENT

4.1 Operations and Maintenance Department Monthly Report

Report received and filed; no presentation was given.

4.2 Park and Recreation Department Monthly Report

Senior Park Ranger Bernard Riedel gave a presentation; received and filed.

4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs)

Public Speaker: Donny Aiken

Water Resources Supervisor John Lindquist gave a presentation; received and filed.

4.4 Administrative Services Department Monthly Report

Chief Financial Officer Brian Zahn and Risk and Safety Manager Tony Huynh gave a presentation; received and filed.

4.5 Engineering Department Monthly Report

Chief Engineer Dr. Maryam Bral gave a presentation; received and filed.

4.6 Environmental Services Department Monthly Report

Report received and filed; no presentation was given.

5. BOARD OF DIRECTORS READING FILE

6. FUTURE AGENDA ITEMS

7. ADJOURNMENT

The meeting was adjourned at 1:43 p.m.

I certify that the above is a true and correct copy of the minutes of the UWCD Board of Directors meeting of September 11, 2024.

ATTEST: _____
Catherine P. Keeling, Board Secretary

ATTEST: _____
Tracy J. Oehler, Clerk of the Board



United Water
CONSERVATION DISTRICT

BOARD OF DIRECTORS MEETING
September 11, 2024

1



LAKE PIRU
RECREATION AREA

September 11, 2024
PARK AND RECREATION DEPARTMENT
Lake Piru Recreation Area Highlights and Updates

2



3



Condor Point Store

- ▶ Opened Memorial Day Weekend
- ▶ Soft drinks, premade sandwiches and salads, candy, ice cream, and various sundries
- ▶ Locally designed and produced Lake Piru clothing
- ▶ Fishing equipment and bait is forthcoming

4

4



United Water Conservation District

5



Vending Machines

- ▶ Eight machines offering a variety of soft drinks and water
- ▶ Located throughout the campgrounds, Day Use Park, and outside Ranger Station

United Water Conservation District

6

6



7



8

Operational Update

Revenue Recap

(January 1 – August 31, 2024)

Year	Day Use Revenue	Camping Revenue	All Other Revenue	Revenue Received (after refunds)	Visitation (# of people)
2024	\$211,657 \$47,605 29%	\$479,933 \$8,005 2%	\$226,987 \$79,000 53%	\$918,577 \$134,610 17%	108,732 16,260 18%
2023	\$164,052	\$471,928	\$147,987	\$783,967	92,472
2022	\$146,279	\$422,838	\$138,260	\$707,377	73,295
2021	\$182,239	\$409,953	\$101,840	\$694,032	57,129

United Water Conservation District

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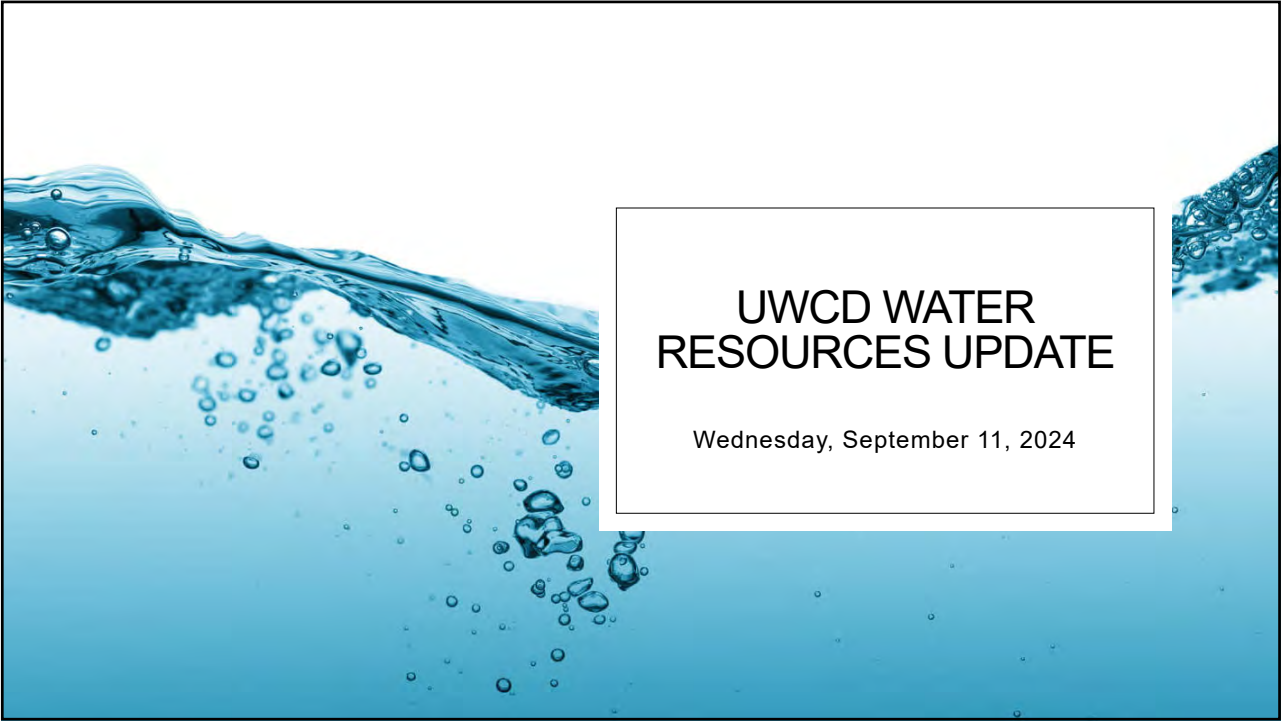
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QUESTIONS?

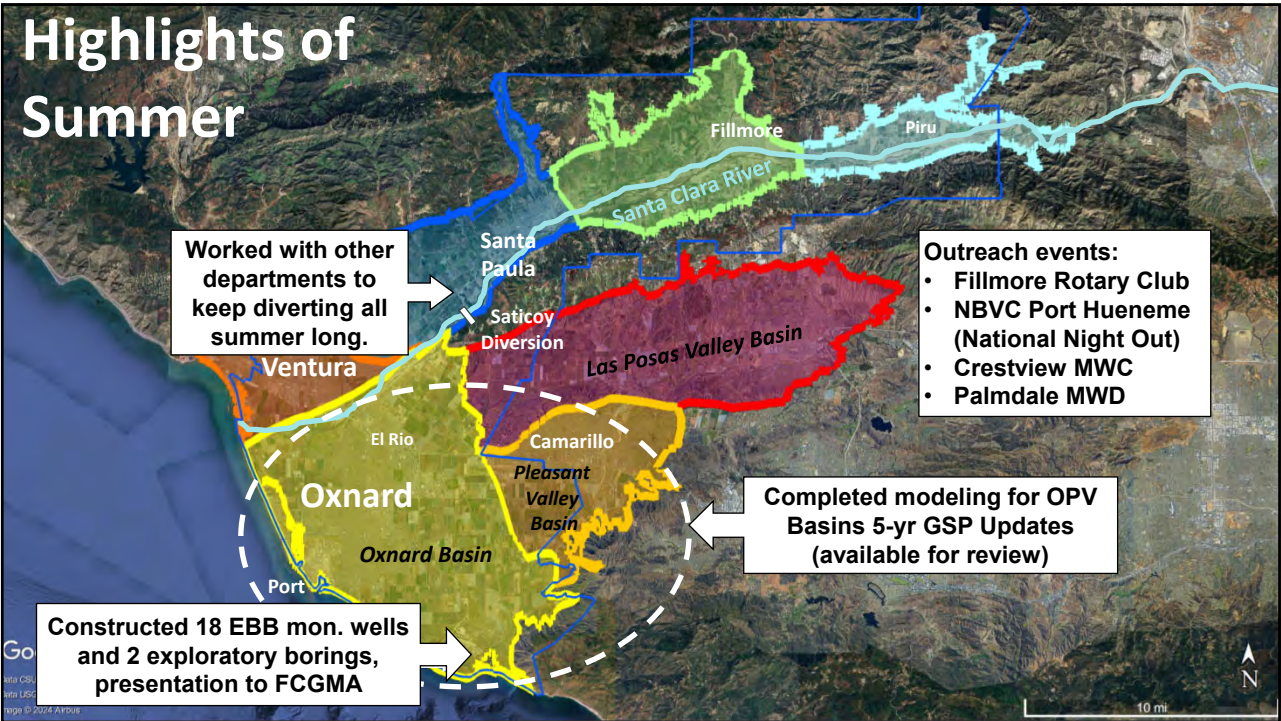
United Water Conservation District

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11



12

A Few More Thoughts...

- Collaboration with other departments has been key to our successes this summer.
- Positive relationships between United and other agencies has benefited all stakeholders.
- New staff are awesome! The future looks bright.
- Decisions and direction of United's Board of Directors and GM laid the groundwork.

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14

Santa Felicia Dam Safety Improvement Project

☐ August 19: Site tour for new BOC member, Michael Forrest

Michael Forrest, P.E., G.E.

Vice President, Senior Consultant (w/AECOM)

☐ August 20-21: Board of Consultants Meeting No. 9

15

15

Santa Felicia Dam Safety

☐ August 26: FERC Annual Dam Inspection

Inspection of Ogee Weir

Inspection of Spillway Slab

16

16

8

A. WATER SUPPLY

B. SYSTEM RELIABILITY

Freeman Conveyance System Upgrade Inverted Siphon Replacement

- Construction began July 15.
- On August 14, precast elements were placed by Crane.
- Below-water portion Completed on September 5.
- Construction completion by mid-October.

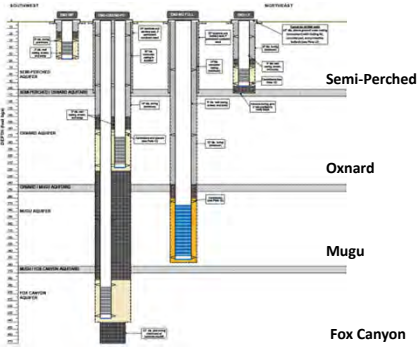


17

A. WATER SUPPLY

EBB Water – Phase 1 Monitoring Wells Construction

- Completed as of September 6:
 - 10 Semi-Perched Wells
 - 7 Oxnard/Mugu Wells
 - 1 Fox Canyon Piezometer
 - 2 exploratory boreholes for Phase 1 Design
- Remaining Work:
 - 1 Ox/Mu nested well & 1 Mugu well
 - Pumping, Surface Completions, Demob
- Project Completion by November 2024



EM1-Ox/Mu Construction, Simulprobe Sampling, and Exploratory Drilling Core

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9

F. COMMUNICATIONS AND
COMMUNITY OUTREACH

Public Outreach

- ❑ National Night Out at Port Hueneme - August 6
 - Representation by Chris Coppinger, Kathleen Kuepper, and Tessa Lenz



UPCOMING

- ❑ RDP Monthly Meeting – September 12
 - Mauricio Guardado and Maryam Bral to present the District’s Recent Successes and Vision of the Future.
- ❑ City of Oxnard Water Workshop with City Council Members - September 17
 - John Lindquist and Robert Richardson to present United's Past, Current and Future Role in Water Resources Management on the Oxnard Plain.





STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Maryam Bral, Chief Engineer
John Lindquist, Water Resources Supervisor

From: Kathleen Kuepper, Hydrogeologist
Bram Sercu, Senior Hydrologist

Date: September 25, 2024 (October 9, 2024, Meeting)

Agenda Item: 3.2 Groundwater Basin Status Report
Informational Item

Staff Recommendation:

The Board will receive and file the Monthly Hydrologic Conditions Report for the District for the month of August 2024.

Summary:

Diversions, Recharge and Ag Pipeline Deliveries for Month of August 2024*

Activity	Amount (acre-feet)
Total Diversions at Freeman Diversion	2,307
Lloyd-Butler Mutual Water Company surface water use	39
Recharge to Saticoy basins (metered + unmetered)	319
Recharge to Noble and Rose basins	0
Recharge to El Rio basins	1,275
Total Ag Pipeline Deliveries of water diverted at Freeman	674
Total Ag Pipeline Deliveries of water pumped from Saticoy Well Field	688
Recharge to Piru spreading grounds	0

*Provisional data. Final data are made available in the September Hydrologic Conditions Report of each water year.

Groundwater Basin Available Storage at End of Month of August 2024

Basin	Available Storage (acre-feet)
Oxnard Forebay	17,700

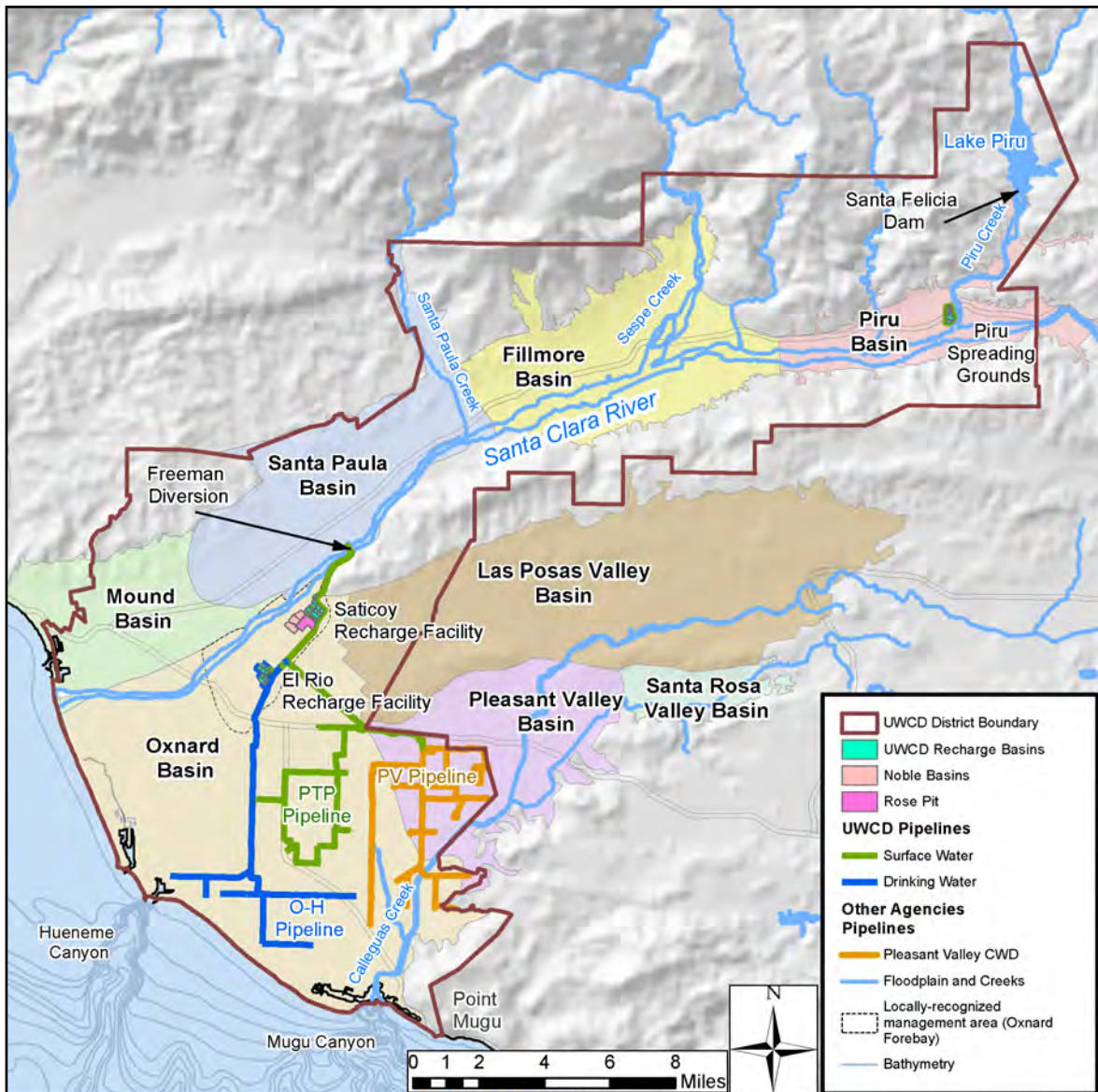
Precipitation for Month of August 2024

Location	Precipitation (inches)
Lake Piru	0.00
Santa Paula	0.00
El Rio	0.00

August 2024 Hydrologic Conditions Report

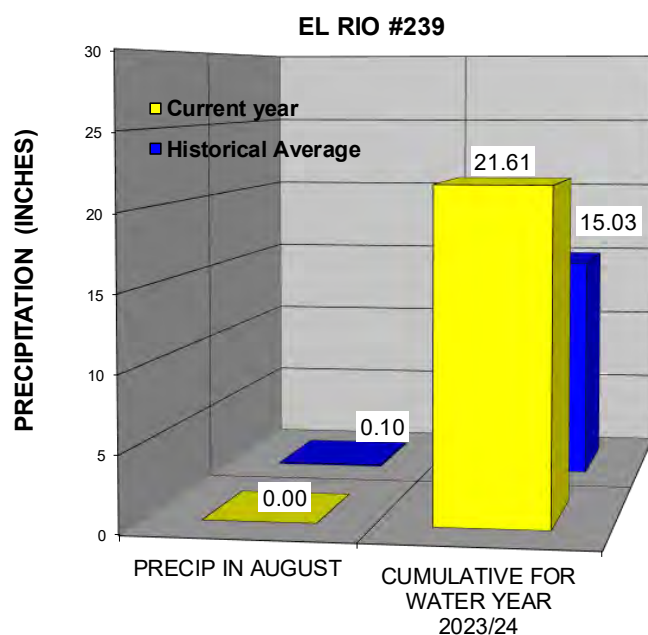
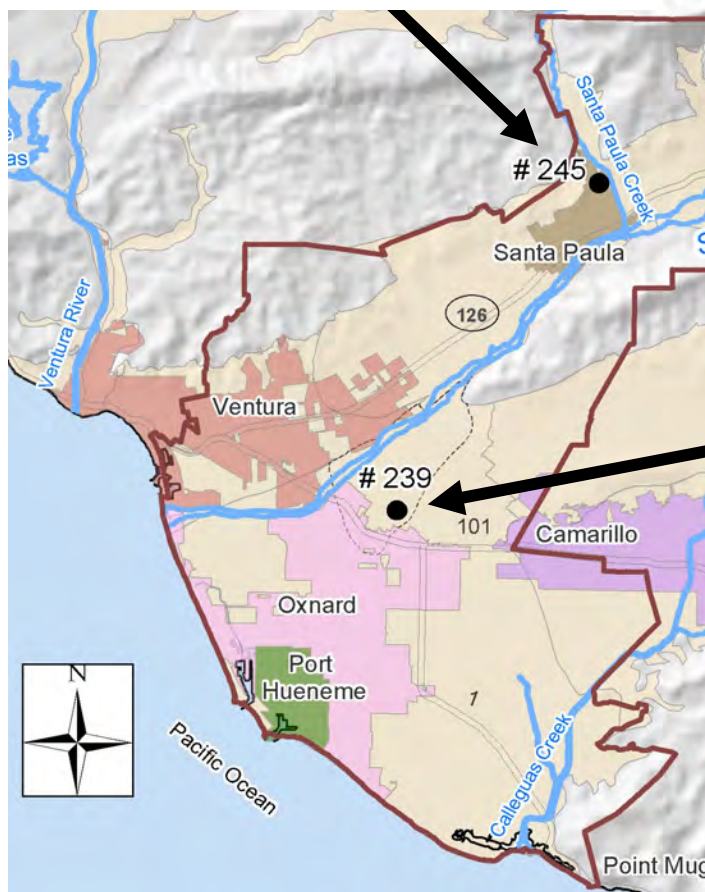
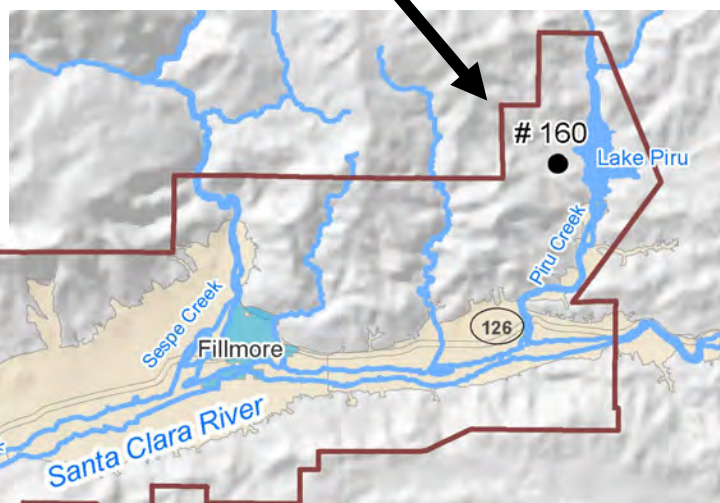
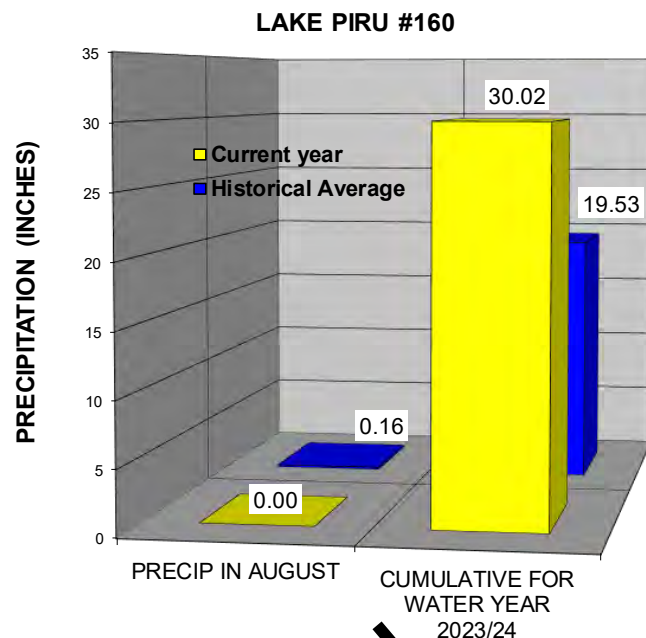
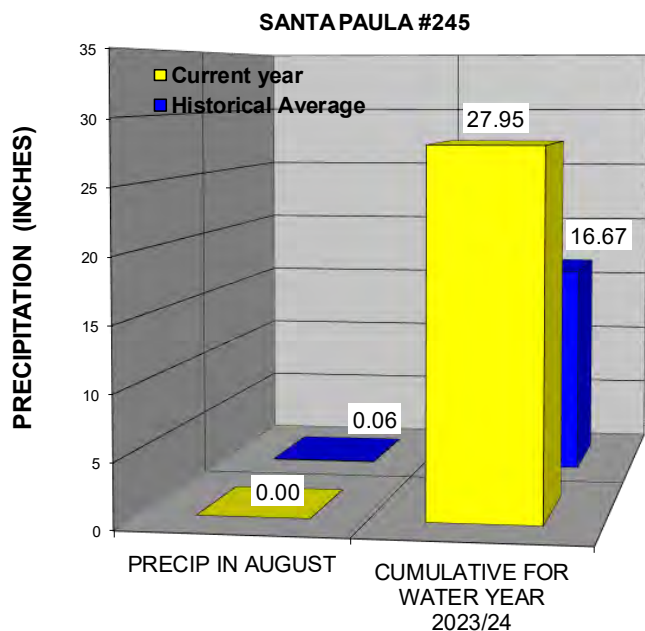
2023/24 Water Year

September 25, 2024



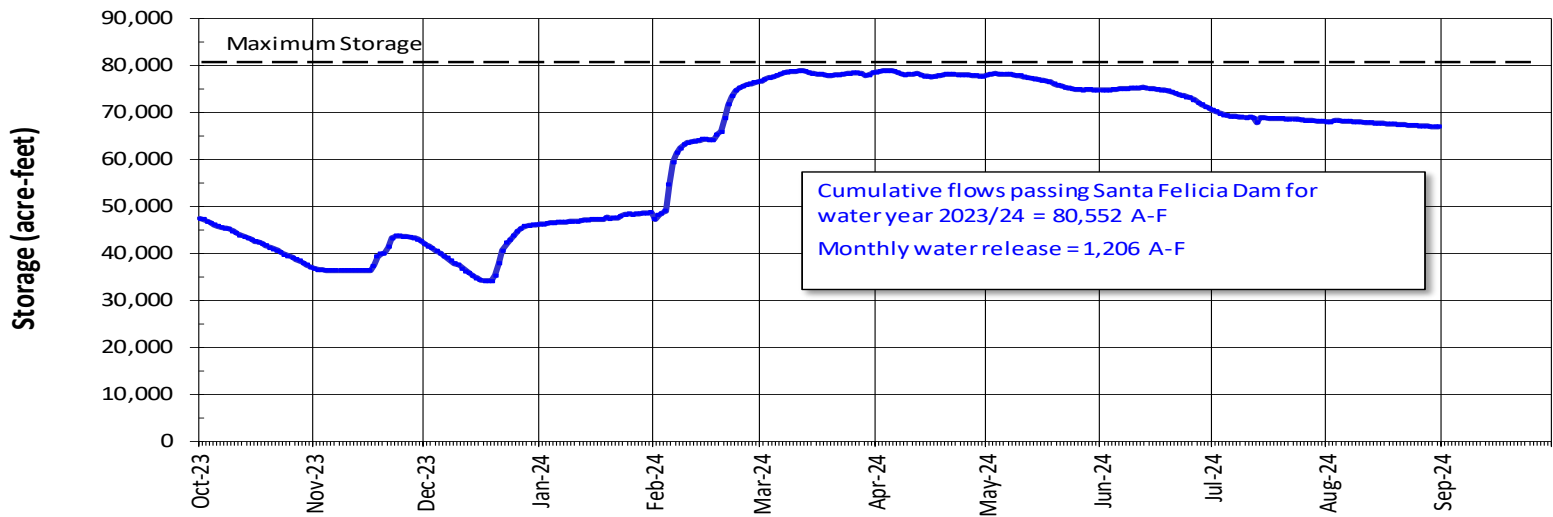
Note: This report may contain provisional data until final review at the end of the water year.

Precipitation



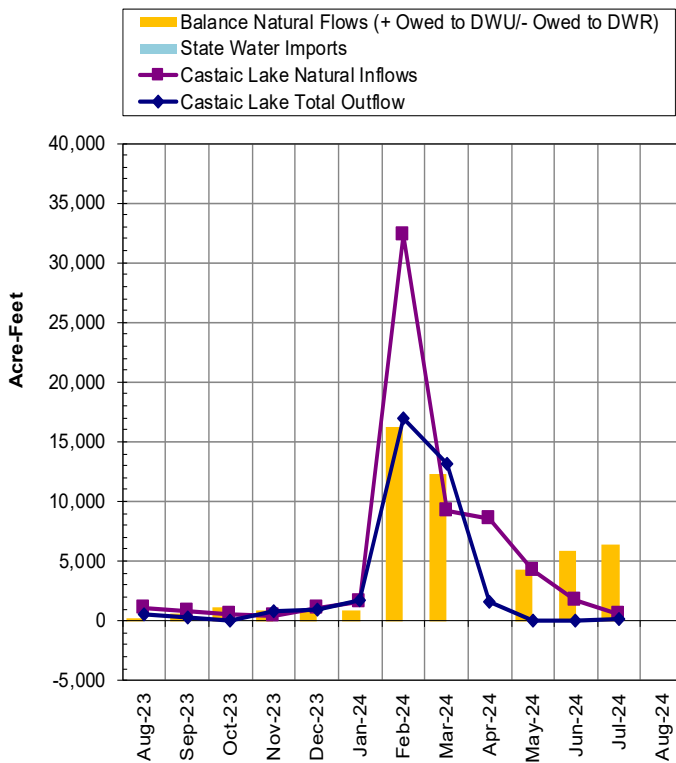
District-wide percent of normal precipitation = 156%

Lake Piru Storage and Outflow

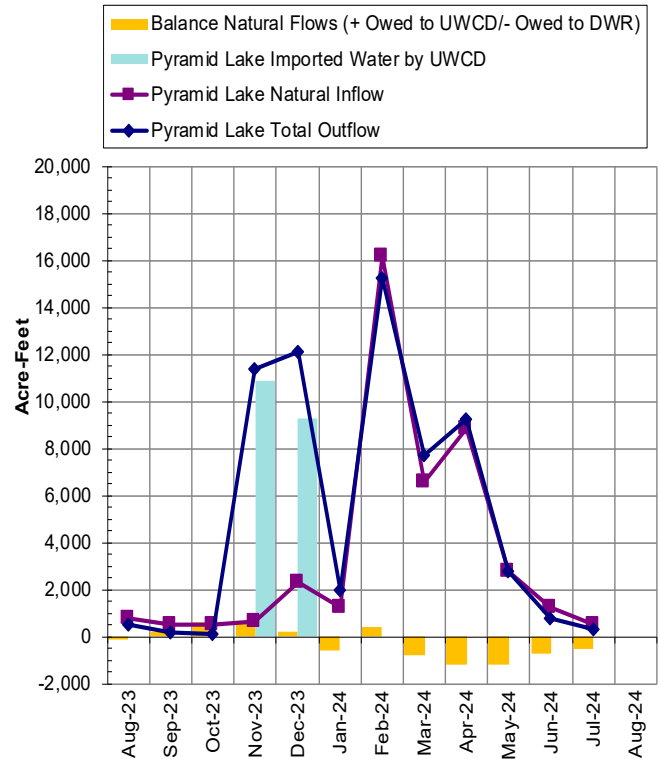


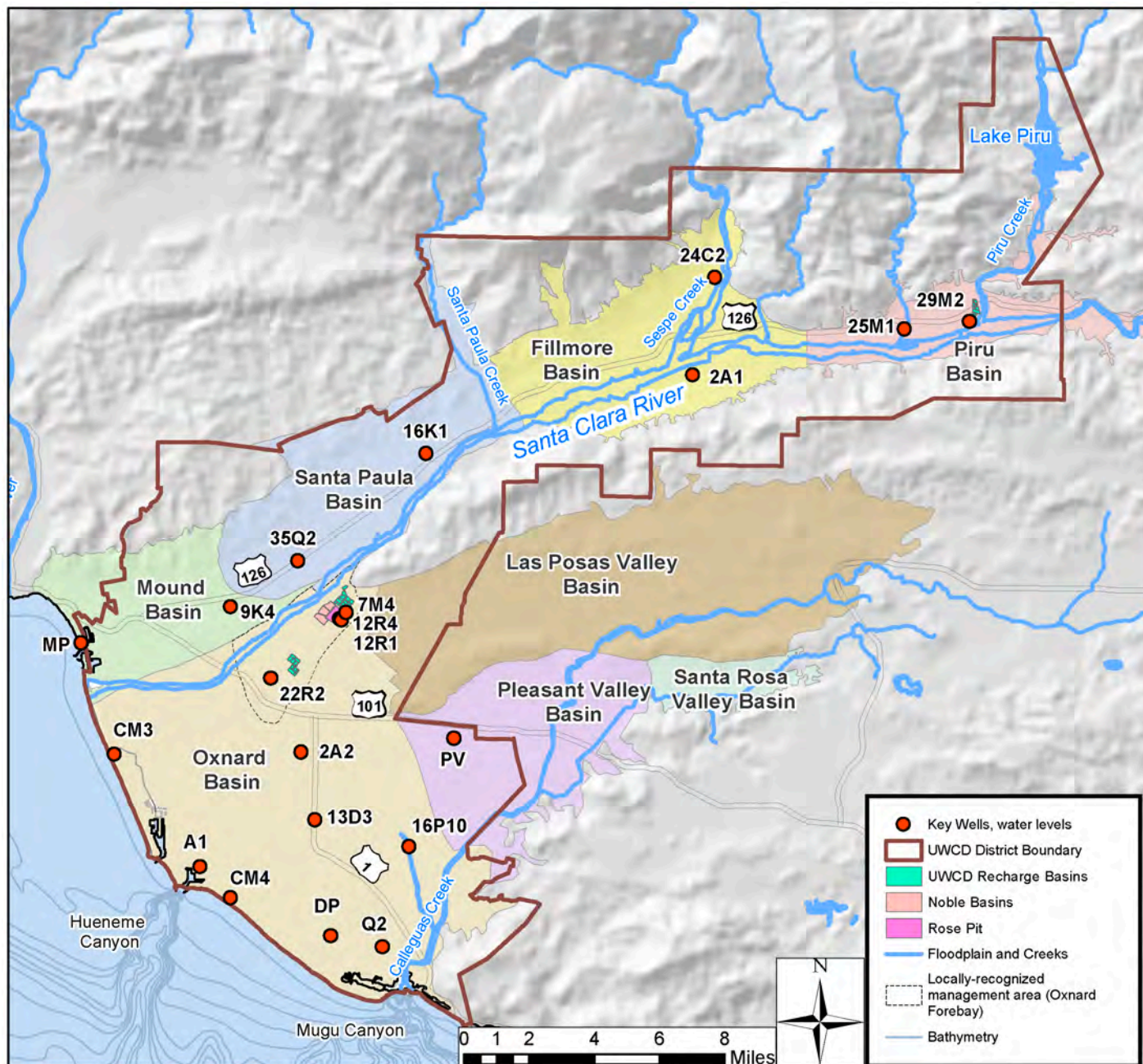
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Hydro Plant Outflow (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	
Cumulative Hydro Plant Outflow (A-F)	0	0	0	0	0	0	0	0	0	0	0	

Castaic Lake releases to downstream water users (DWU)



Pyramid Lake releases to UWCD

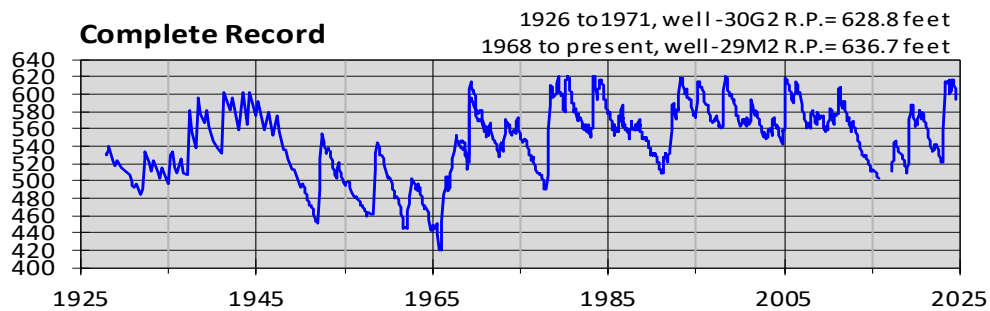
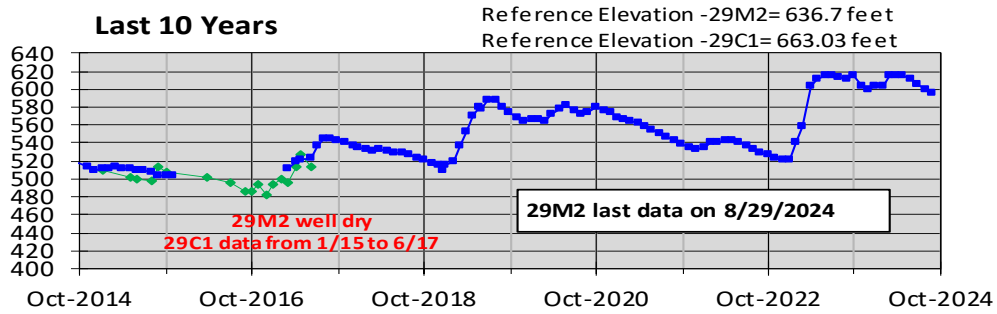




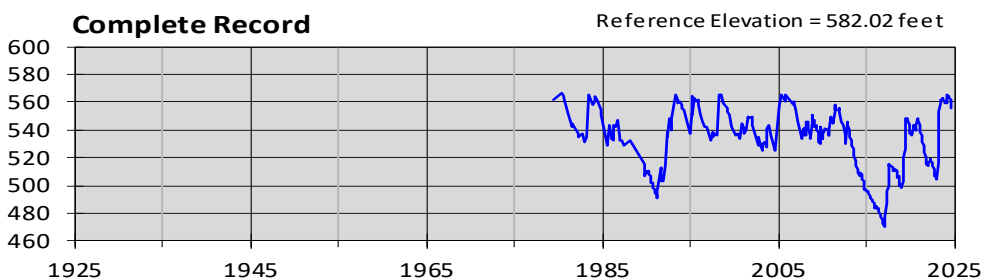
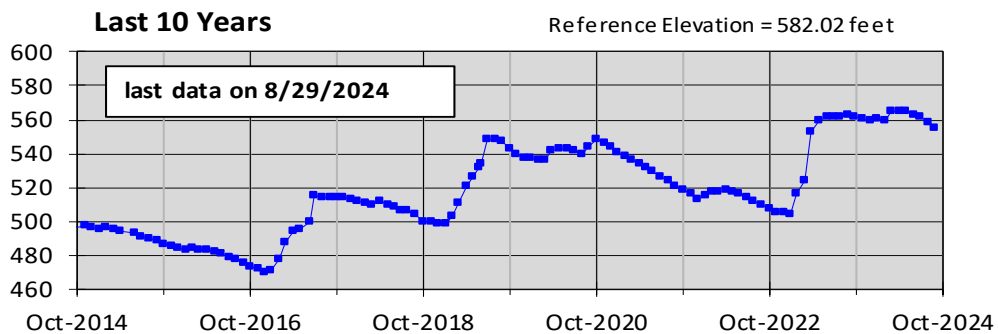
Locations of Key Wells, Monthly Groundwater Elevation Monitoring

Groundwater Elevation Records – Piru Basin

Well 04N18W29M02S (29M2)

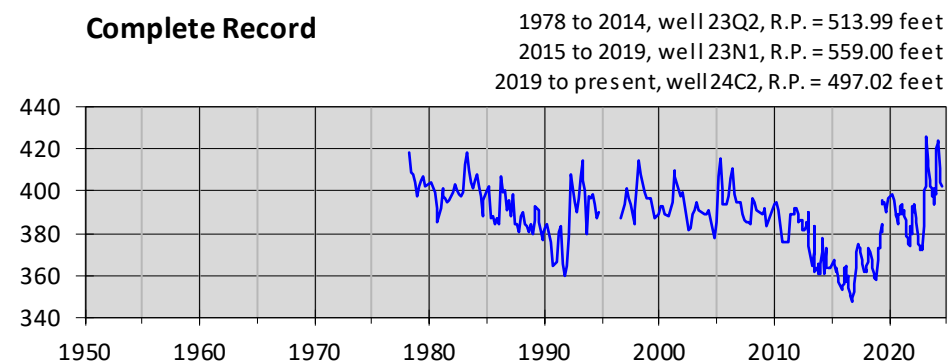
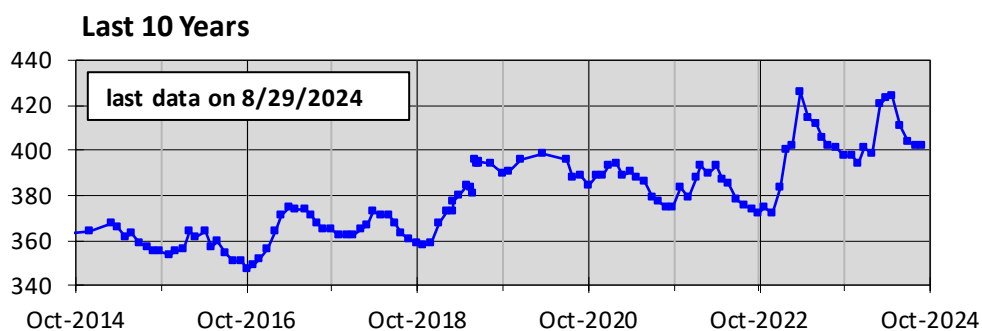


Well 04N19W25M01S (25M1)

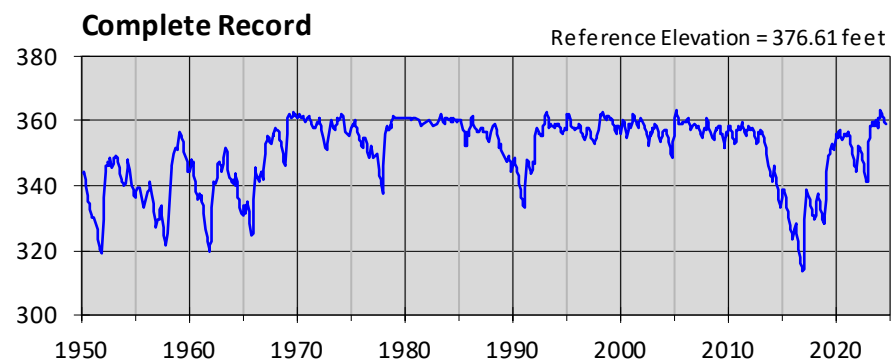
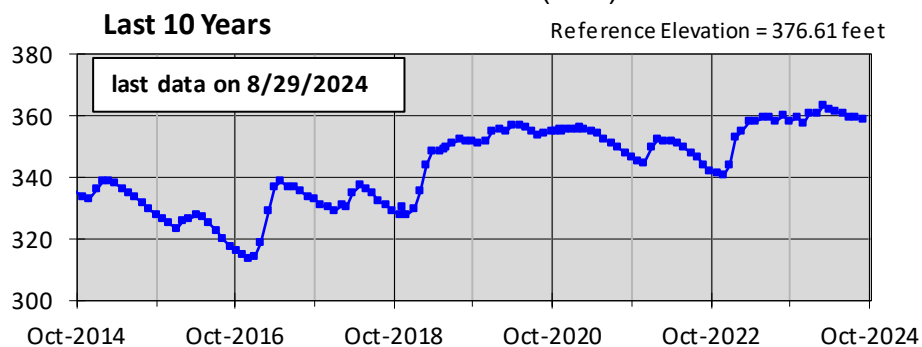


Groundwater Elevation Records – Fillmore Basin

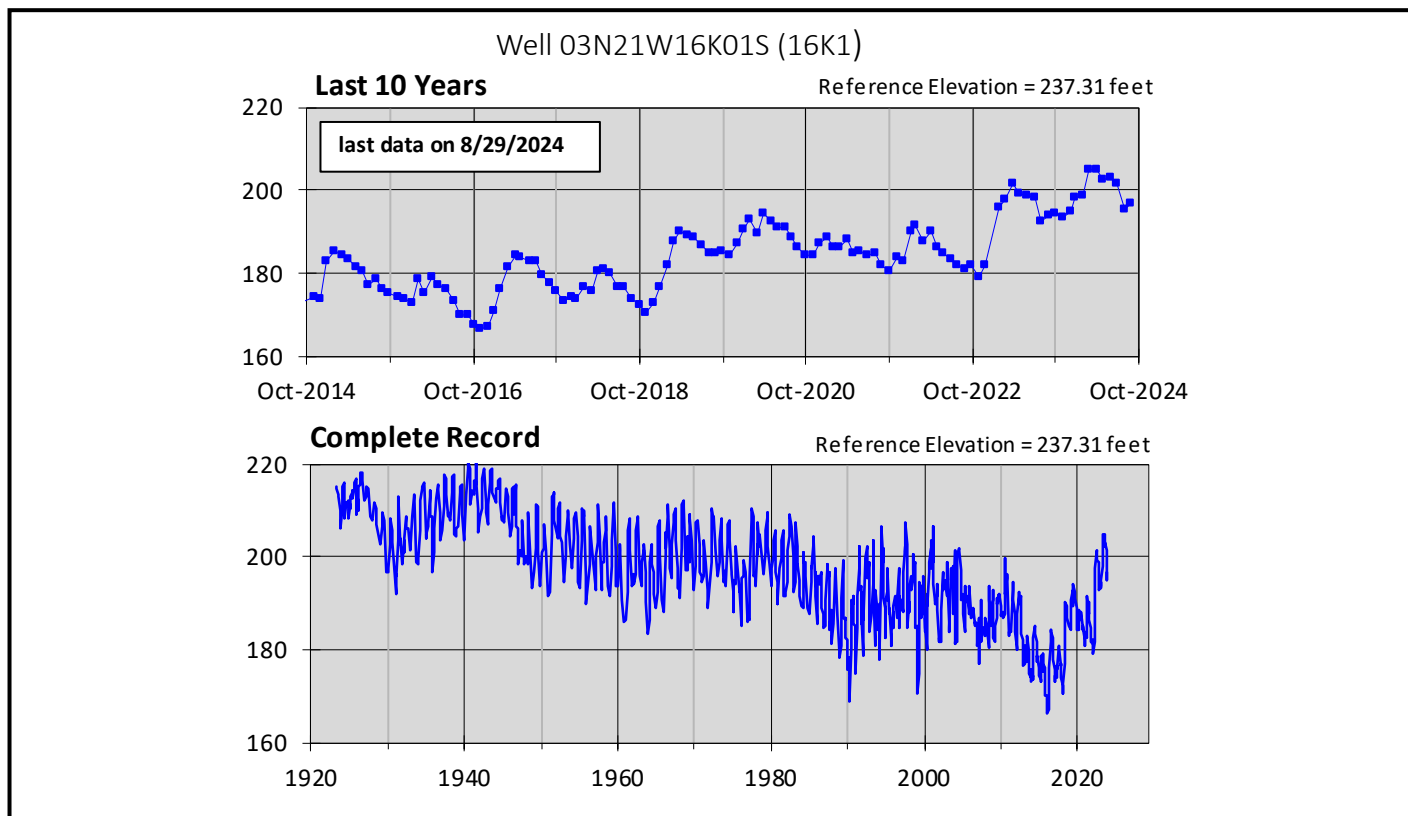
Well 04N20W24C02S (24C2)



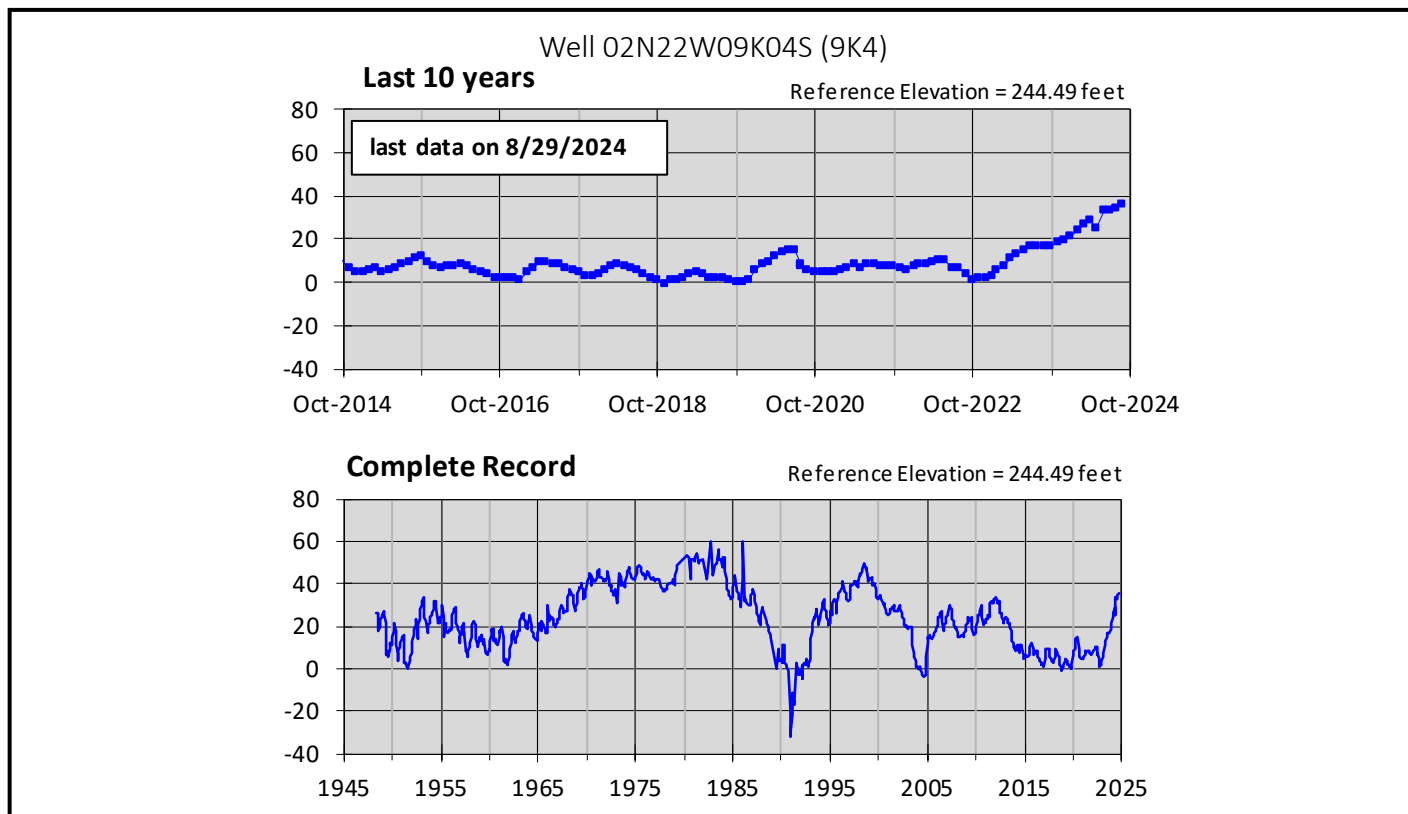
Well 03N20W02A01S (2A1)



Groundwater Elevation Records – Santa Paula Basin



Groundwater Elevation Records – Mound Basin

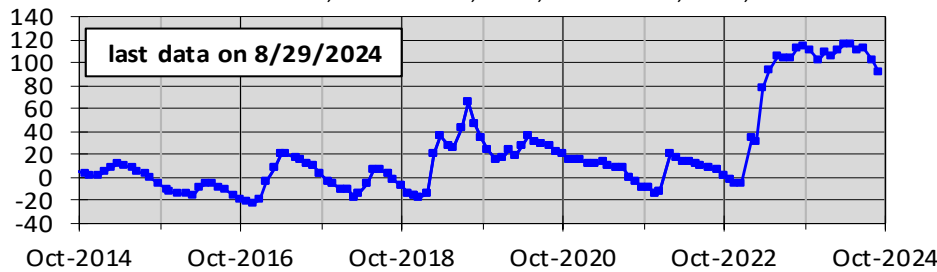


Groundwater Elevation Records – Oxnard Basin, Forebay

Wells 02N22W12R01S (12R1), 02N22W12R04S (12R4), and 02N21W07M04S (7M4)

Last 10 Years

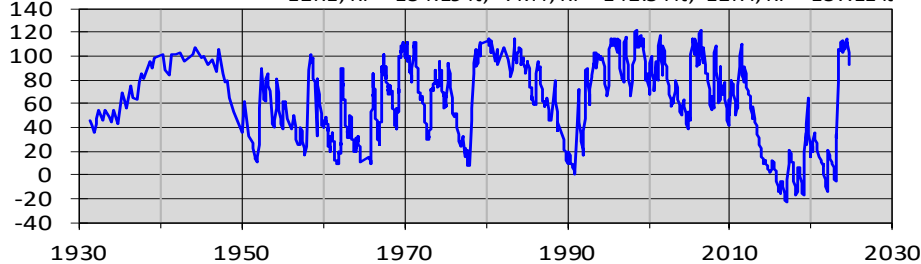
-12R1; RP = 134.19 ft; - 7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft



Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Complete Record

-12R1; RP = 134.19 ft; - 7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft

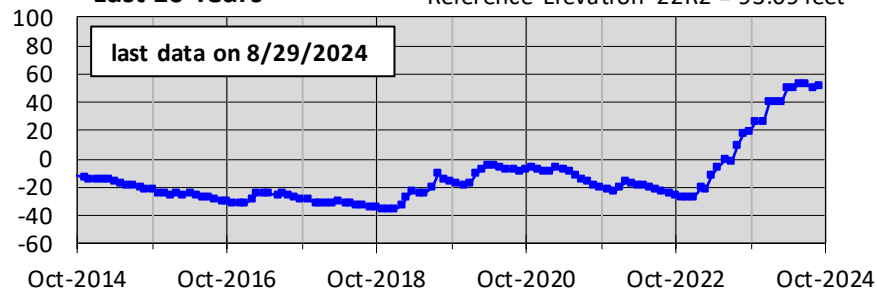


Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Well 02N22W22R02S (22R2)

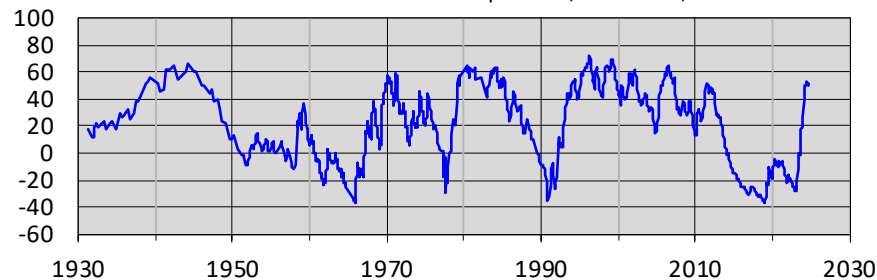
Last 10 Years

Reference Elevation -22R2 = 93.09 feet

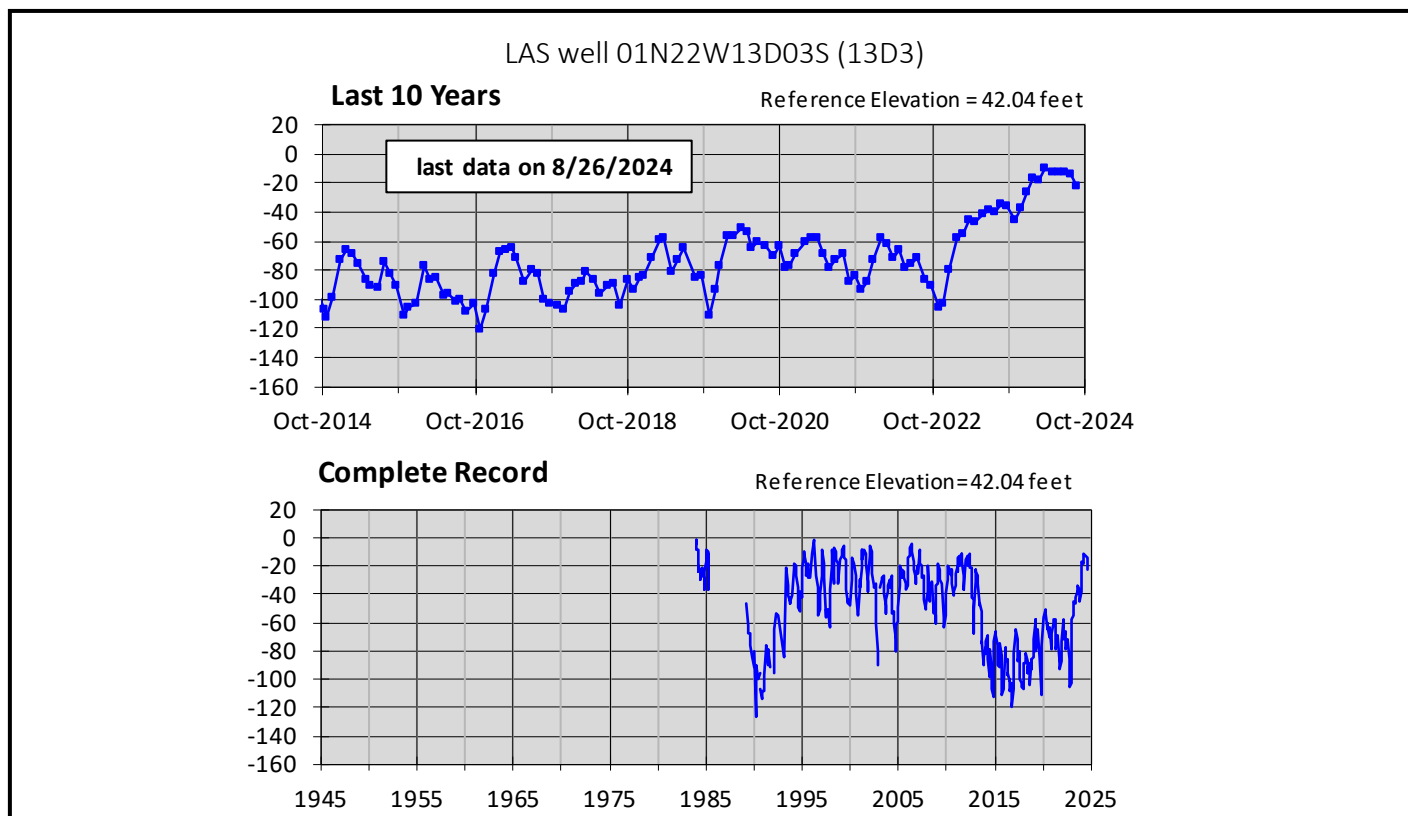
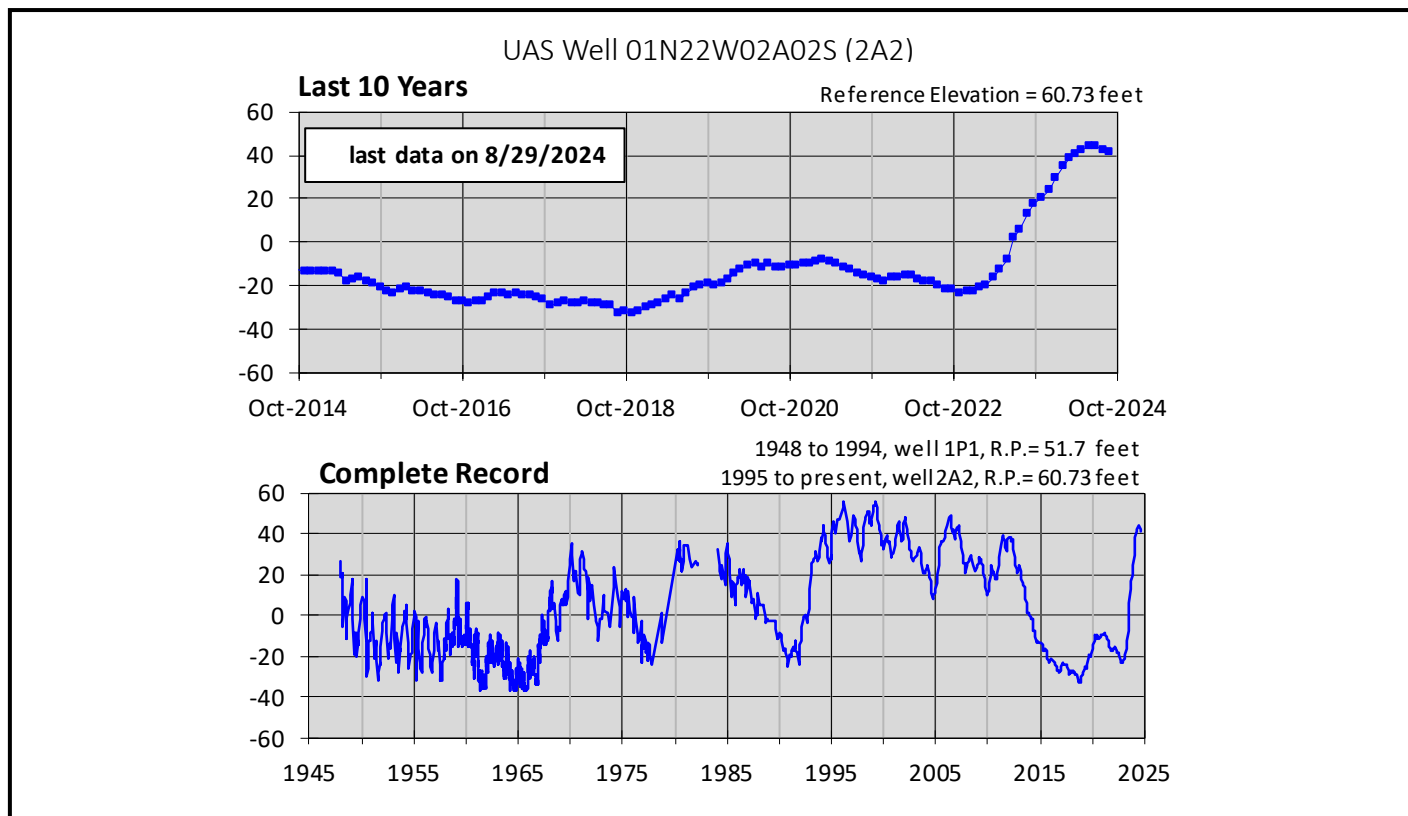


Complete Record

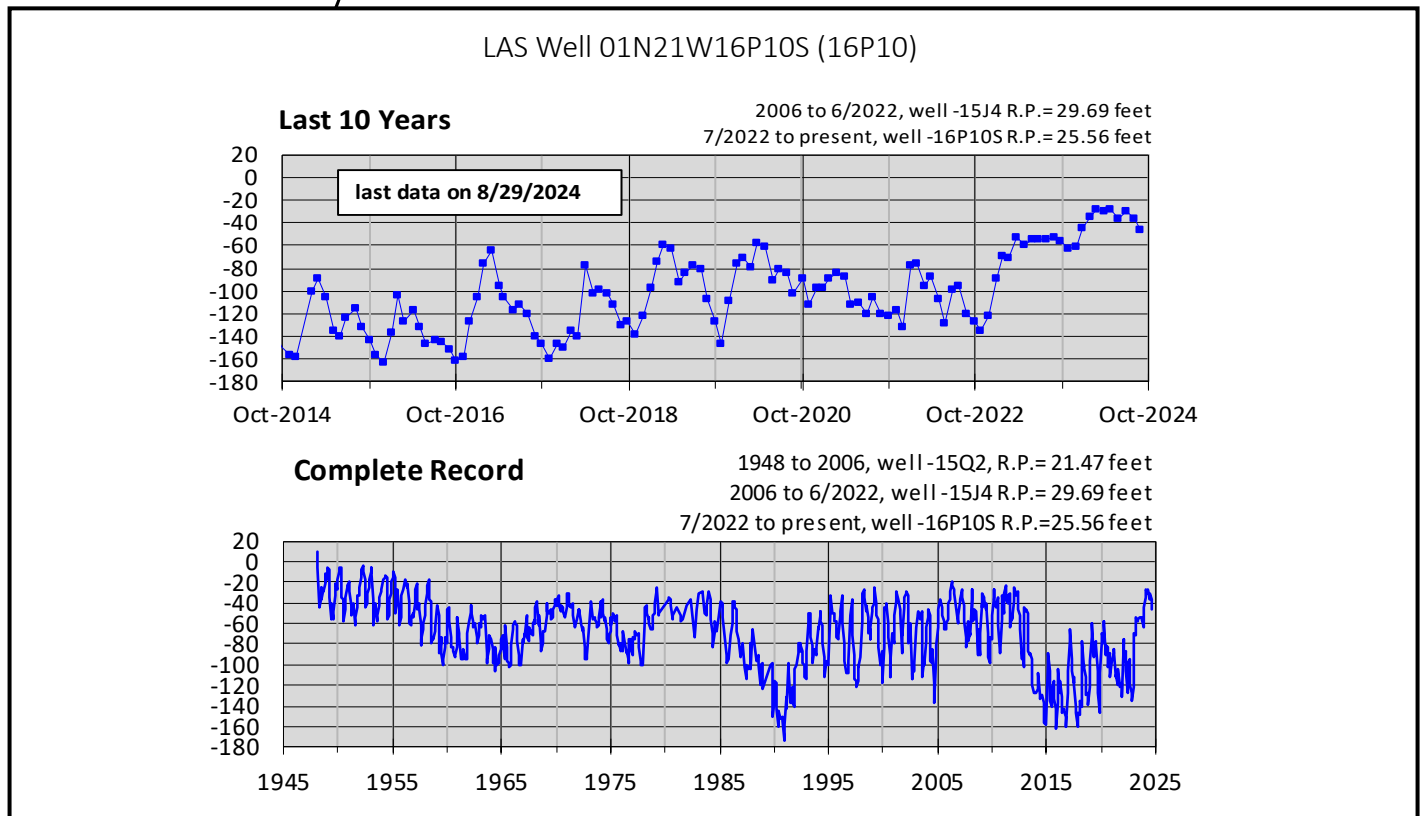
1931 to 2004, well -22R1, RP= 93.6 feet
2004 to present, well -22R2, RP = 93.09 feet



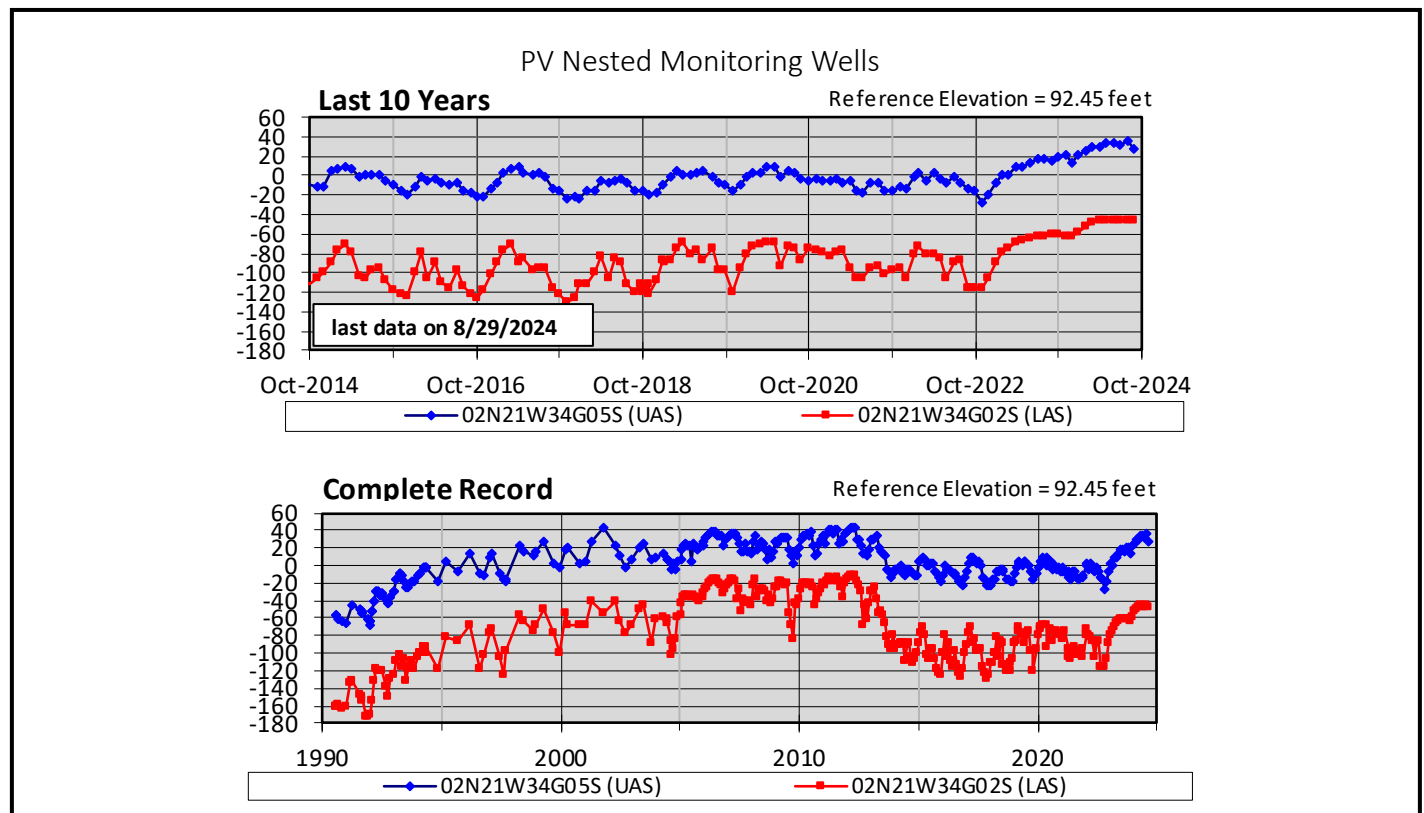
Groundwater Elevation Records – Oxnard Basin



Groundwater Elevation Records – eastern Oxnard/Pleasant Valley Basin Boundary Area

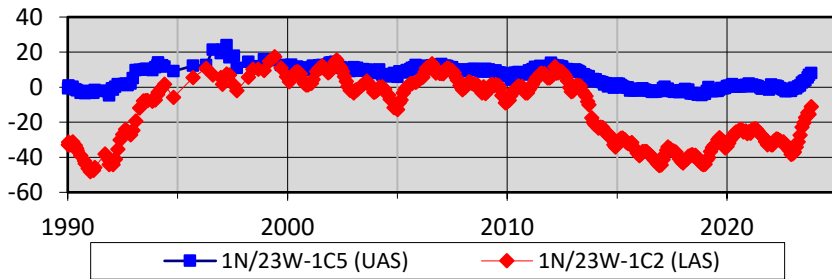


Groundwater Elevation Records – Pleasant Valley Basin

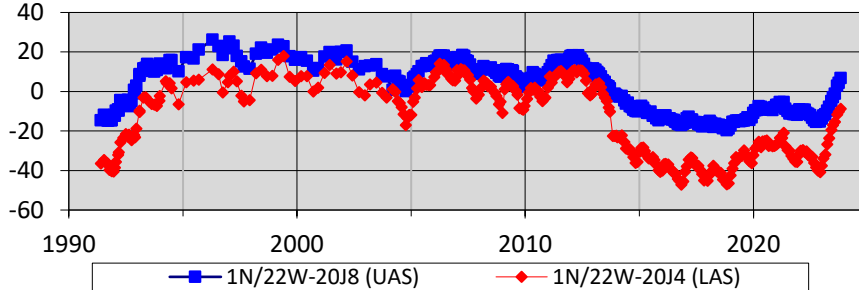


Groundwater Elevation Records – Coastal Nested Monitoring Wells

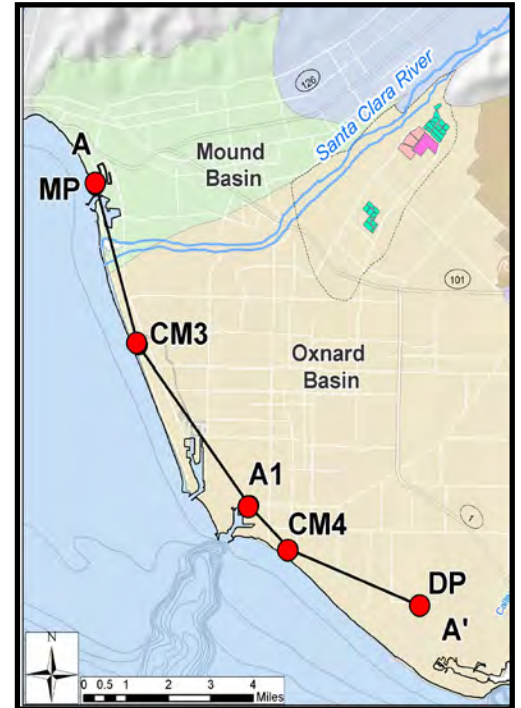
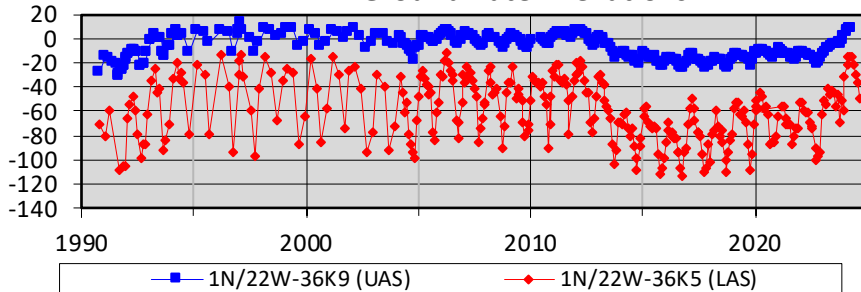
CM3 Groundwater Elevations



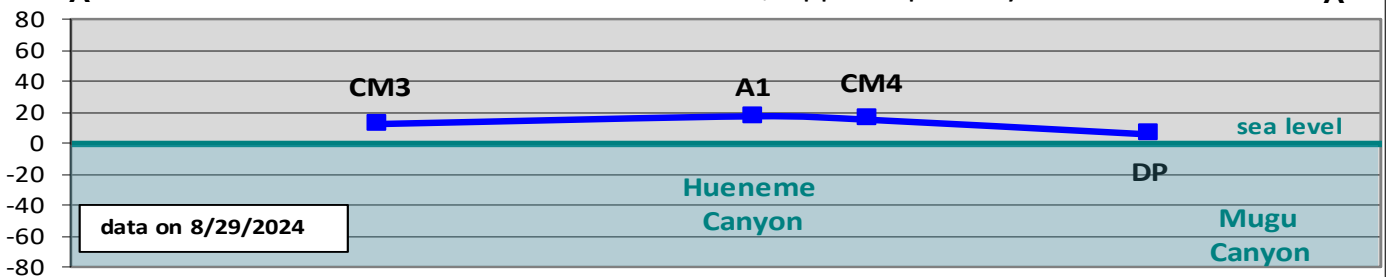
A1 Groundwater Elevations



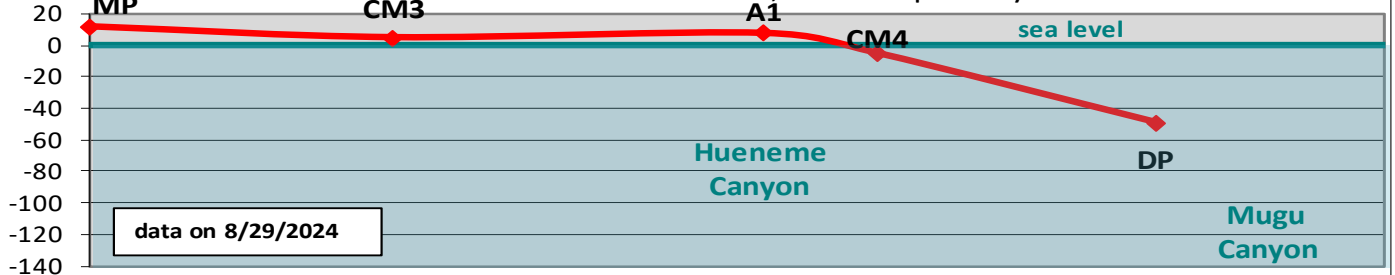
DP Groundwater Elevations



Coastal Groundwater Elevation Transect, Upper Aquifer System



Coastal Groundwater Elevation Transect, Lower Aquifer System



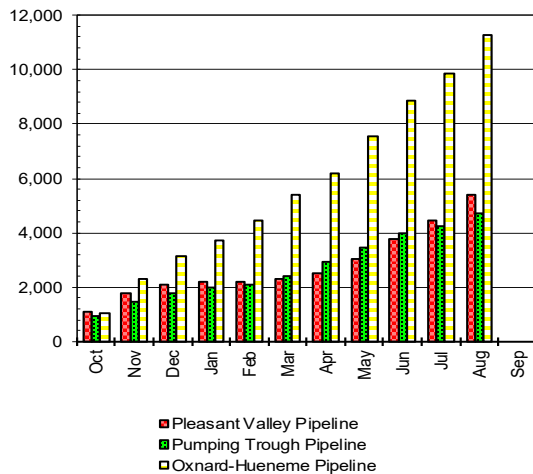
Monthly Water Deliveries, acre-feet (Water Year 2023/24)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	1,114.2	555.3	314.4	96.3	0.0	109.8	204.3	527.5	717.6	408.3	478.5	
PV Pipeline (Saticoy well field)	0.0	105.8	0.0	4.1	0.0	0.0	0.0	0.0	0.0	296.1	488.5	
Total to Pleasant Valley Pipeline	1,114.2	661.1	314.4	100.4	0.0	109.8	204.3	527.5	717.6	704.4	967.0	
PTP (surface water)	913.9	359.0	289.4	201.6	129.1	305.5	452.3	527.2	516.3	126.4	195.1	
PTP (PTP 1-5)	10.5	54.2	7.1	16.2	10.3	7.1	36.3	3.6	0.1	90.2	93.8	
PTP (OH-12/13)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PTP (Saticoy well field)	0.0	118.6	0.0	3.9	0.0	0.0	0.0	0.0	0.0	60.7	199.5	
Total PTP	924.4	531.8	296.5	221.6	139.5	312.6	488.6	530.8	516.4	277.2	488.4	
C-customers (surface water)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Saticoy Well Field (groundwater)	0.0	224.4	0.0	8.0	0.0	0.0	0.0	0.0	0.0	356.8	688.0	
O-H Pipeline (groundwater)	1,066.4	1,221.4	842.2	608.9	717.7	962.1	766.0	1,387.7	1,274.2	1,014.7	1,418.3	
Total Surface Water Delivery (PTP, PV, c-cust)	2,028.1	914.3	603.8	297.9	129.1	415.3	656.6	1,054.7	1,233.9	534.7	673.6	
Total Groundwater Delivery (PTP, OH, Sat)	1,076.9	1,500.0	849.3	633.1	728.0	969.2	802.3	1,391.3	1,274.3	1,461.6	2,200.1	
Total Delivery (surface water, groundwater)	3,105.0	2,414.3	1,453.1	931.0	857.2	1,384.5	1,458.9	2,446.0	2,508.2	1,996.3	2,873.7	

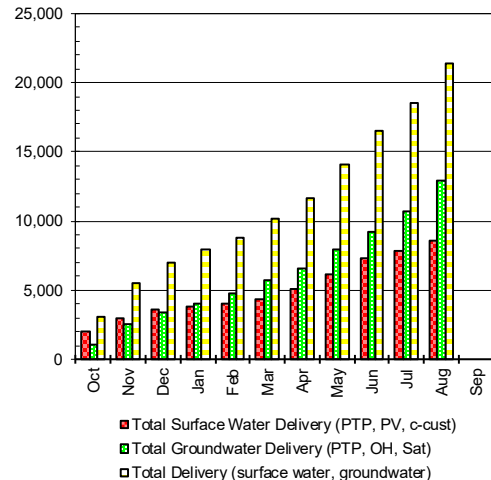
Cumulative Water Deliveries, acre-feet (Water Year 2023/24)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	1,114.2	1,669.5	1,983.9	2,080.2	2,080.2	2,190.0	2,394.3	2,921.8	3,639.4	4,047.7	4,526.3	
PV Pipeline (saticoy well field)	0.0	105.8	105.8	109.9	109.9	109.9	109.9	109.9	109.9	406.0	894.5	
Total to Pleasant Valley Pipeline	1,114.2	1,775.3	2,089.7	2,190.1	2,190.1	2,299.9	2,504.2	3,031.7	3,749.3	4,453.7	5,420.7	
PTP (surface water)	913.9	1,272.9	1,562.3	1,763.9	1,893.0	2,198.5	2,650.8	3,178.0	3,694.3	3,820.7	4,015.8	
PTP (PTP 1-5)	10.5	64.7	71.8	88.0	98.3	105.4	141.7	145.4	145.5	235.6	329.4	
PTP (OH-12/13)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PTP (Saticoy well field)	0.0	118.6	118.6	122.5	122.5	122.5	122.5	122.5	122.5	183.2	382.7	
Total PTP	924.4	1,456.2	1,752.7	1,974.3	2,113.8	2,426.4	2,915.0	3,445.8	3,962.2	4,239.5	4,727.8	
C-customers (surface water)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Saticoy Well Field (groundwater)	0.0	224.4	224.4	232.4	232.4	232.4	232.4	232.4	232.4	589.1	1,277.1	
O-H Pipeline (groundwater)	1,066.4	2,287.8	3,130.0	3,738.9	4,456.6	5,418.7	6,184.7	7,572.4	8,846.6	9,861.3	11,279.6	
Total Surface Water Delivery (PTP, PV, c-cust)	2,028.1	2,942.4	3,546.2	3,844.1	3,973.2	4,388.5	5,045.1	6,099.8	7,333.7	7,868.4	8,542.0	
Total Groundwater Delivery (PTP, OH, Sat)	1,076.9	2,576.9	3,426.2	4,059.2	4,787.3	5,756.5	6,558.8	7,950.1	9,224.4	10,686.0	12,886.1	
Total Delivery (surface water, groundwater)	3,105.0	5,519.3	6,972.4	7,903.3	8,760.5	10,145.0	11,603.9	14,050.0	16,558.2	18,554.5	21,428.1	

Cumulative deliveries by system



Cumulative deliveries by source/type



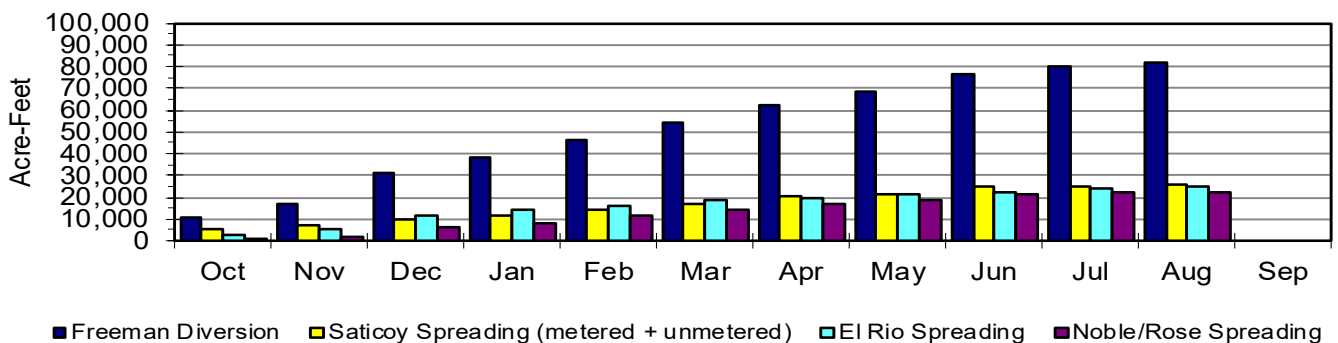
Monthly diversion and recharge totals by facility, 2023/24, in acre-feet

Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	10,946	5,094	2,591	1,186	47
Nov	0	6,363	1,702	3,283	464	32
Dec	0	13,794	3,235	5,550	4,370	35
Jan	0	7,168	1,776	2,958	2,123	5
Feb	0	7,770	2,392	2,073	3,173	4
Mar	0	8,585	3,016	2,183	2,964	7
Apr	0	7,679	2,996	1,404	2,607	15
May	0	5,978	1,555	1,199	2,117	51
Jun	0	8,045	2,959	1,370	2,450	32
Jul	0	3,538	657	1,337	992	17
Aug	0	2,307	319	1,275	0	39
Sep						

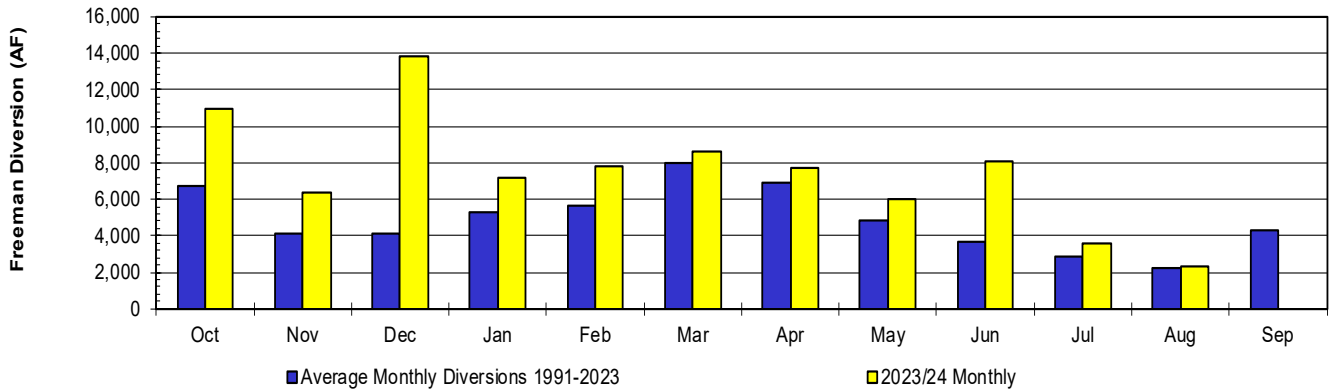
Cumulative diversion and recharge totals by facility, 2023/24, in acre-feet

Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	10,946	5,094	2,591	1,186	47
Nov	0	17,309	6,796	5,875	1,650	78
Dec	0	31,103	10,031	11,425	6,020	113
Jan	0	38,271	11,807	14,383	8,143	118
Feb	0	46,041	14,199	16,455	11,316	122
Mar	0	54,626	17,215	18,638	14,279	128
Apr	0	62,305	20,212	20,042	16,886	144
May	0	68,283	21,766	21,241	19,004	195
Jun	0	76,327	24,726	22,611	21,454	227
Jul	0	79,865	25,383	23,948	22,445	244
Aug	0	82,172	25,702	25,223	22,445	284
Sep						

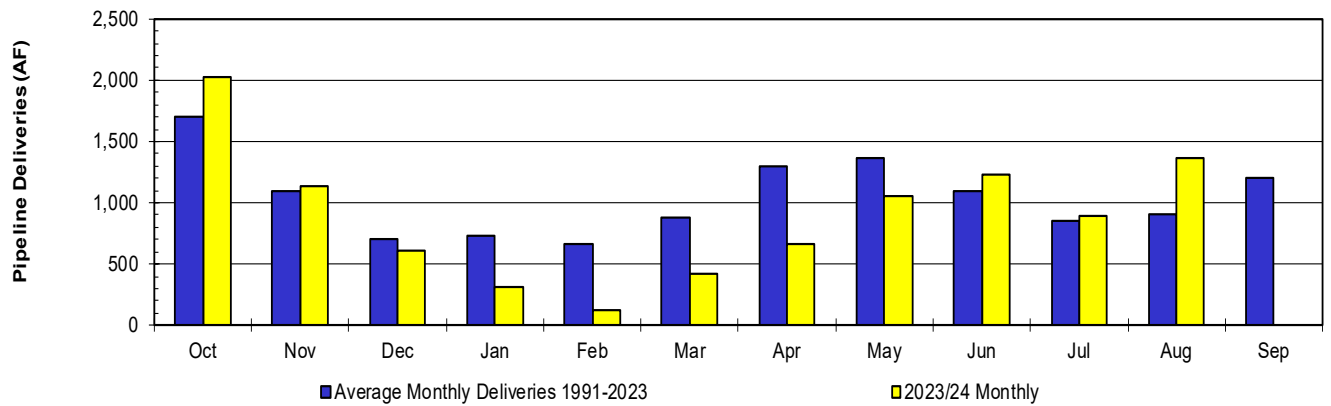
Cumulative diversion at Freeman, and distribution to recharge facilities



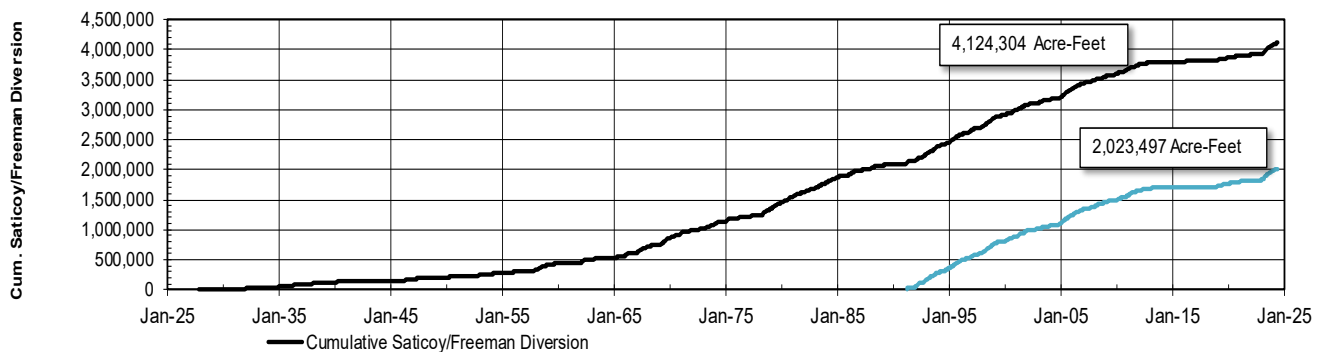
Monthly 2023/24 diversion at Freeman,
compared to average monthly diversions (1991-2023)



Monthly 2023/24 pipeline deliveries (surface water deliveries),
compared to average monthly pipeline deliveries (1991-2023)

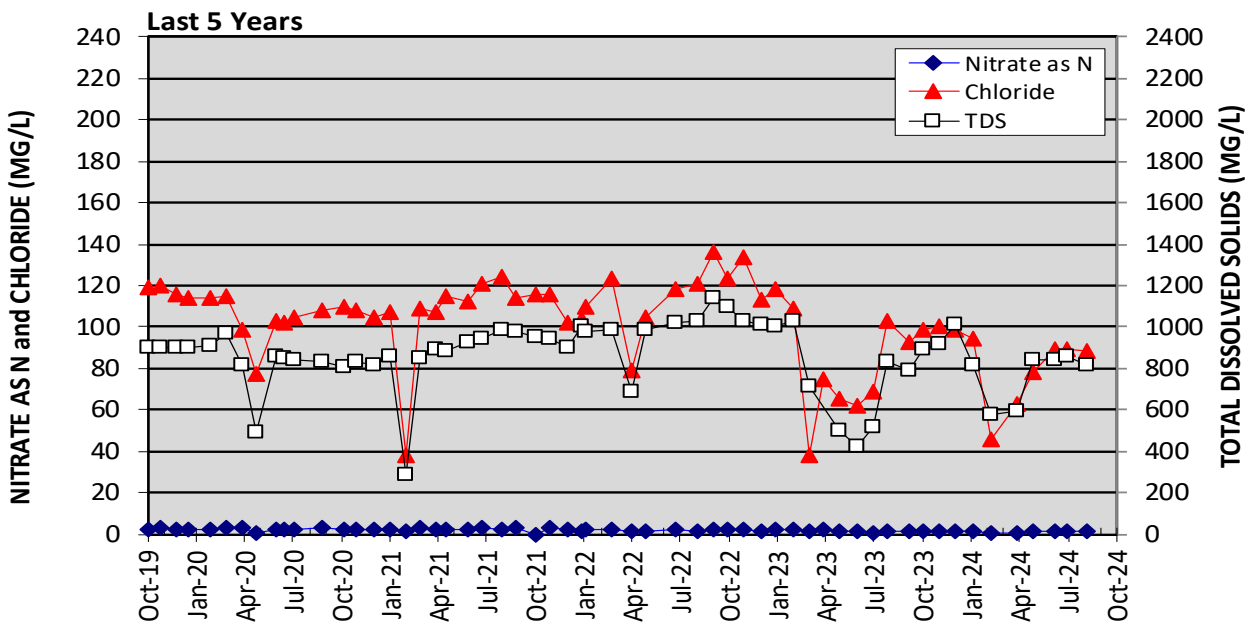


Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

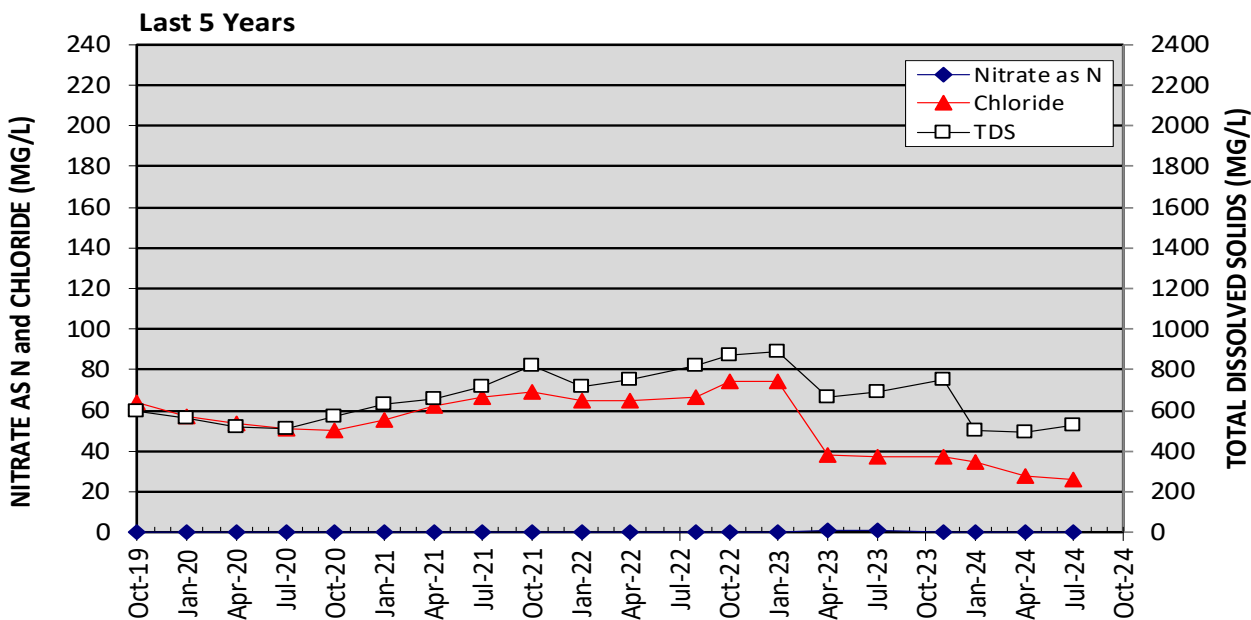


Water Quality

Santa Clara River water quality near Los Angeles/Ventura County line

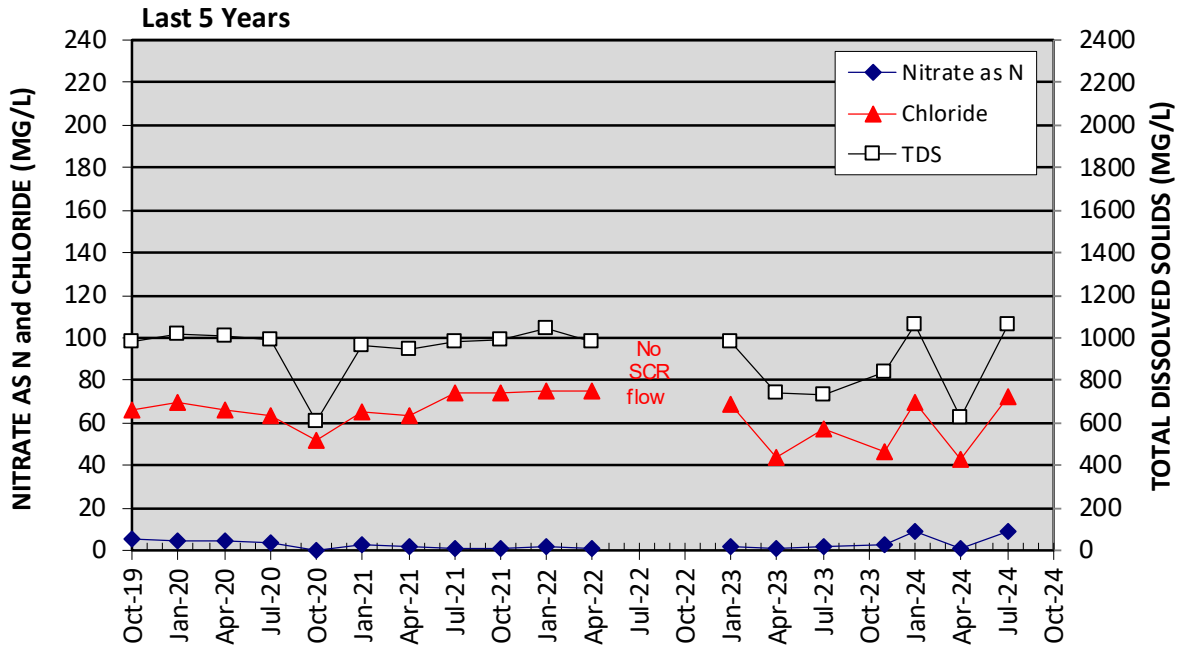


Piru Creek water quality below Santa Felicia Dam

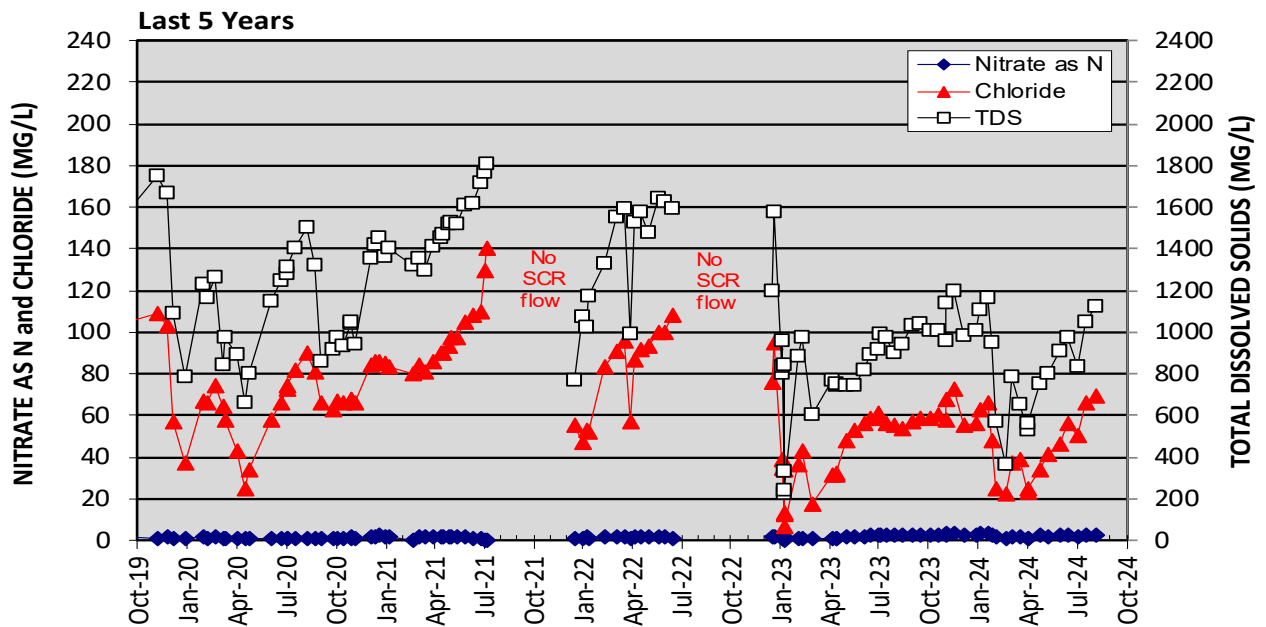


Water Quality

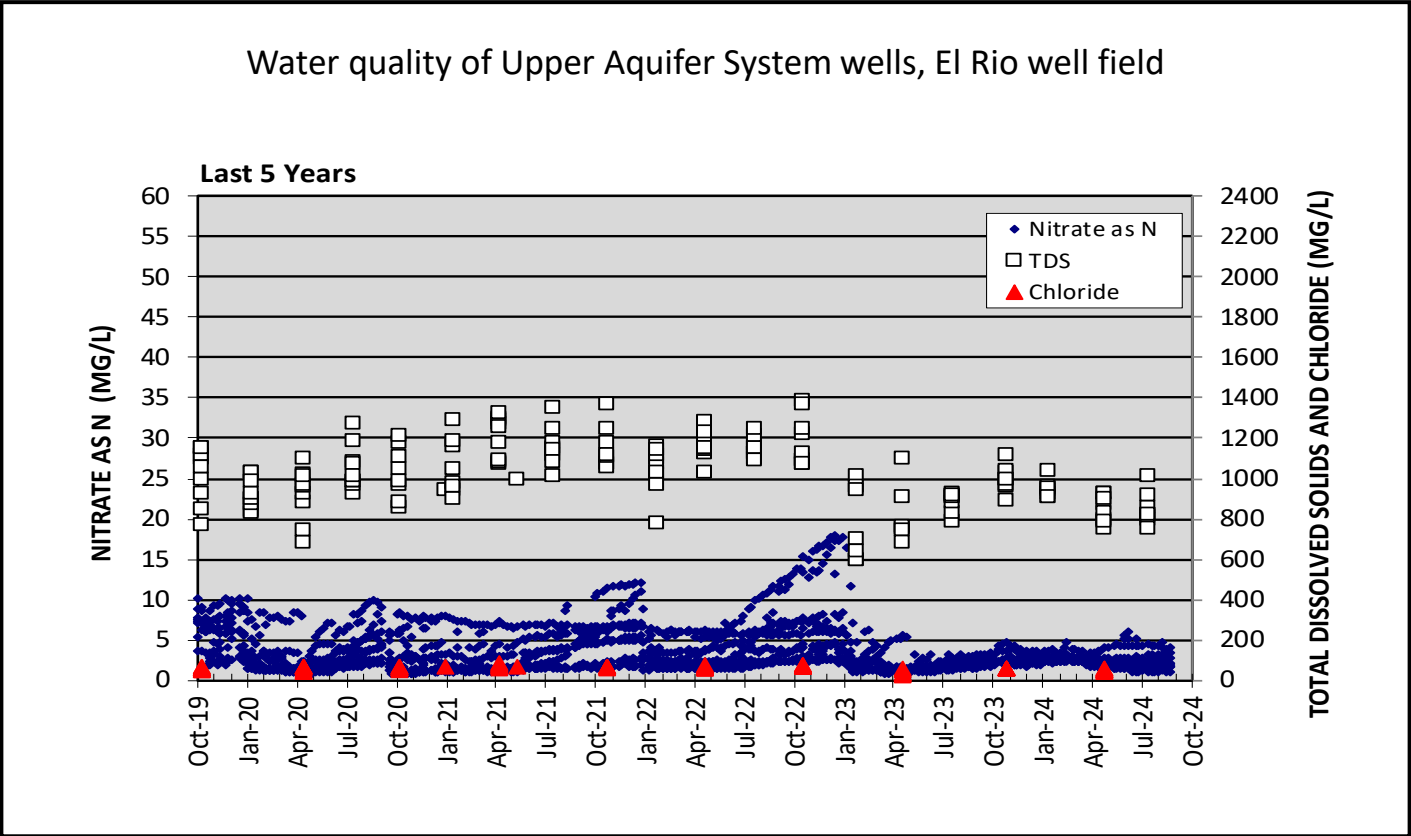
Santa Clara River water quality near Fillmore Fish Hatchery

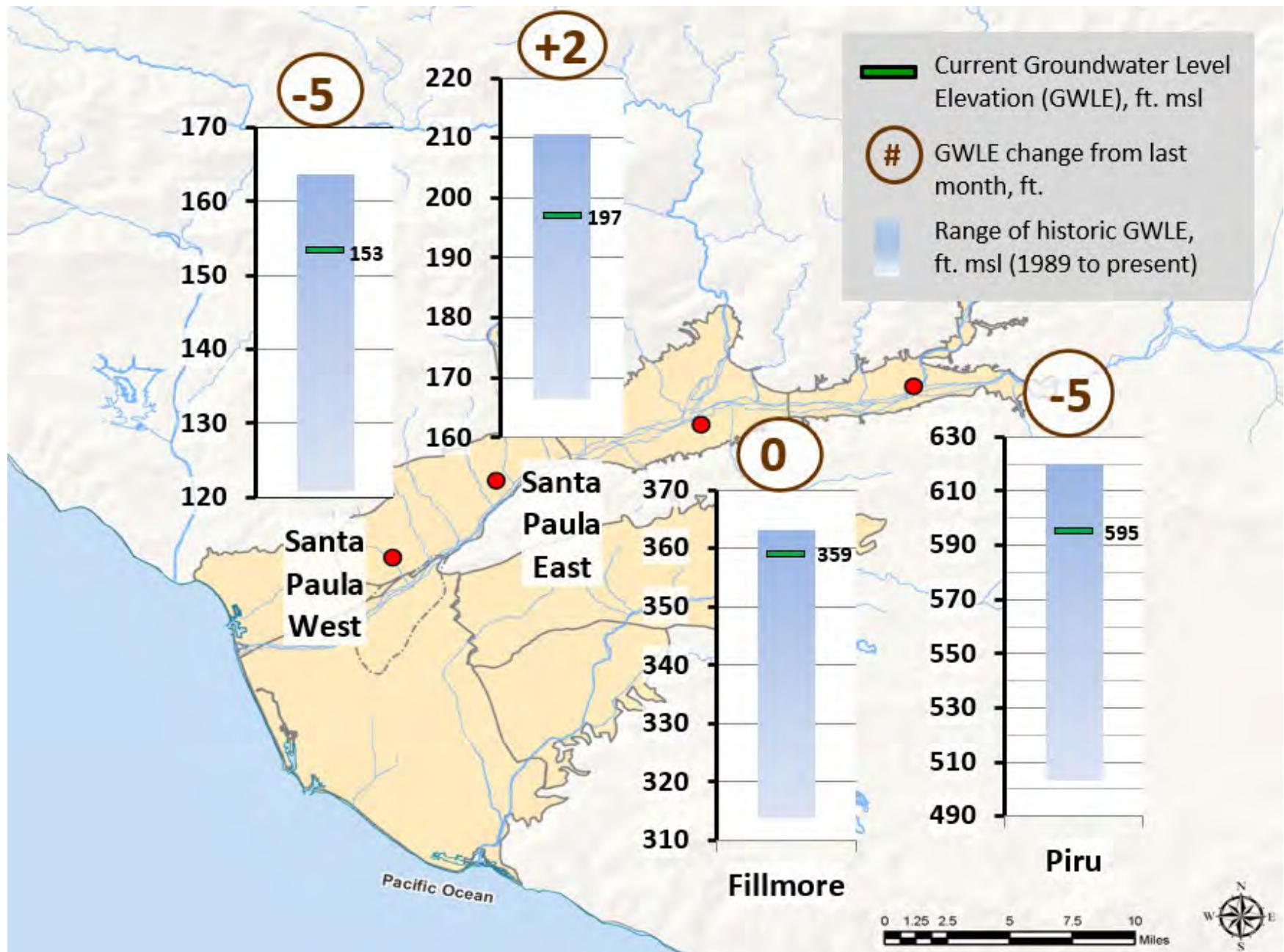


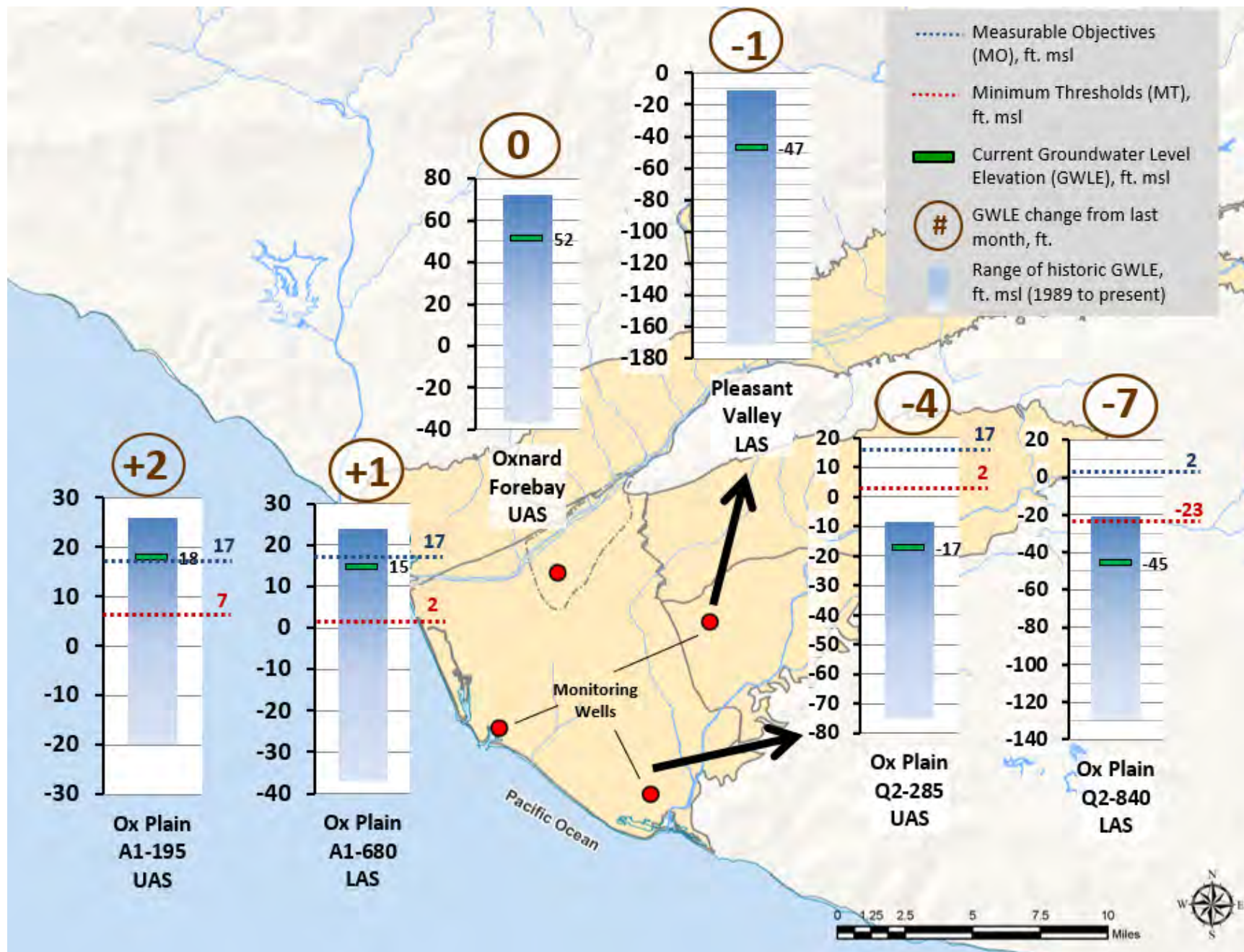
Santa Clara River water quality at Freeman Diversion



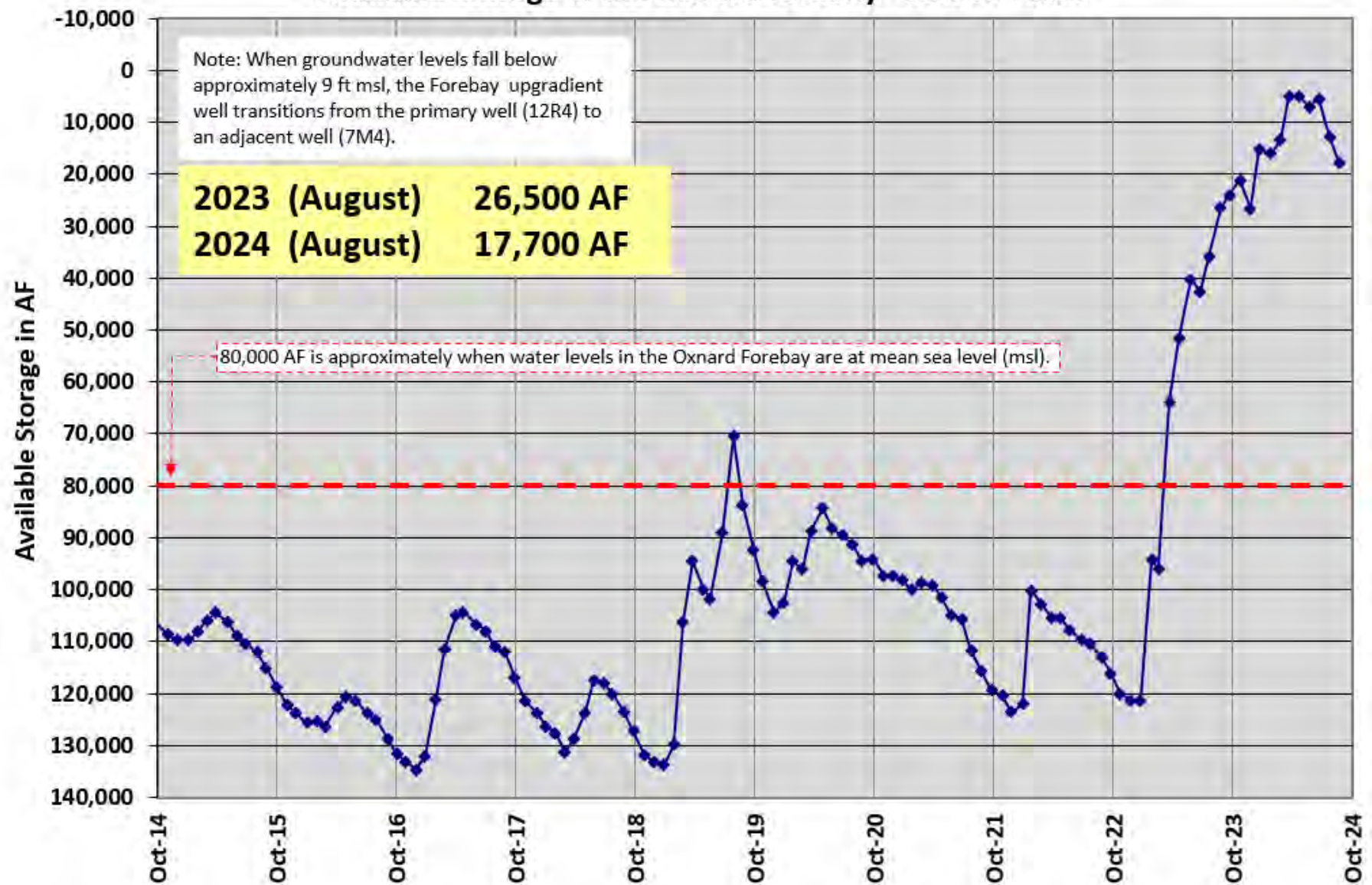
Water Quality

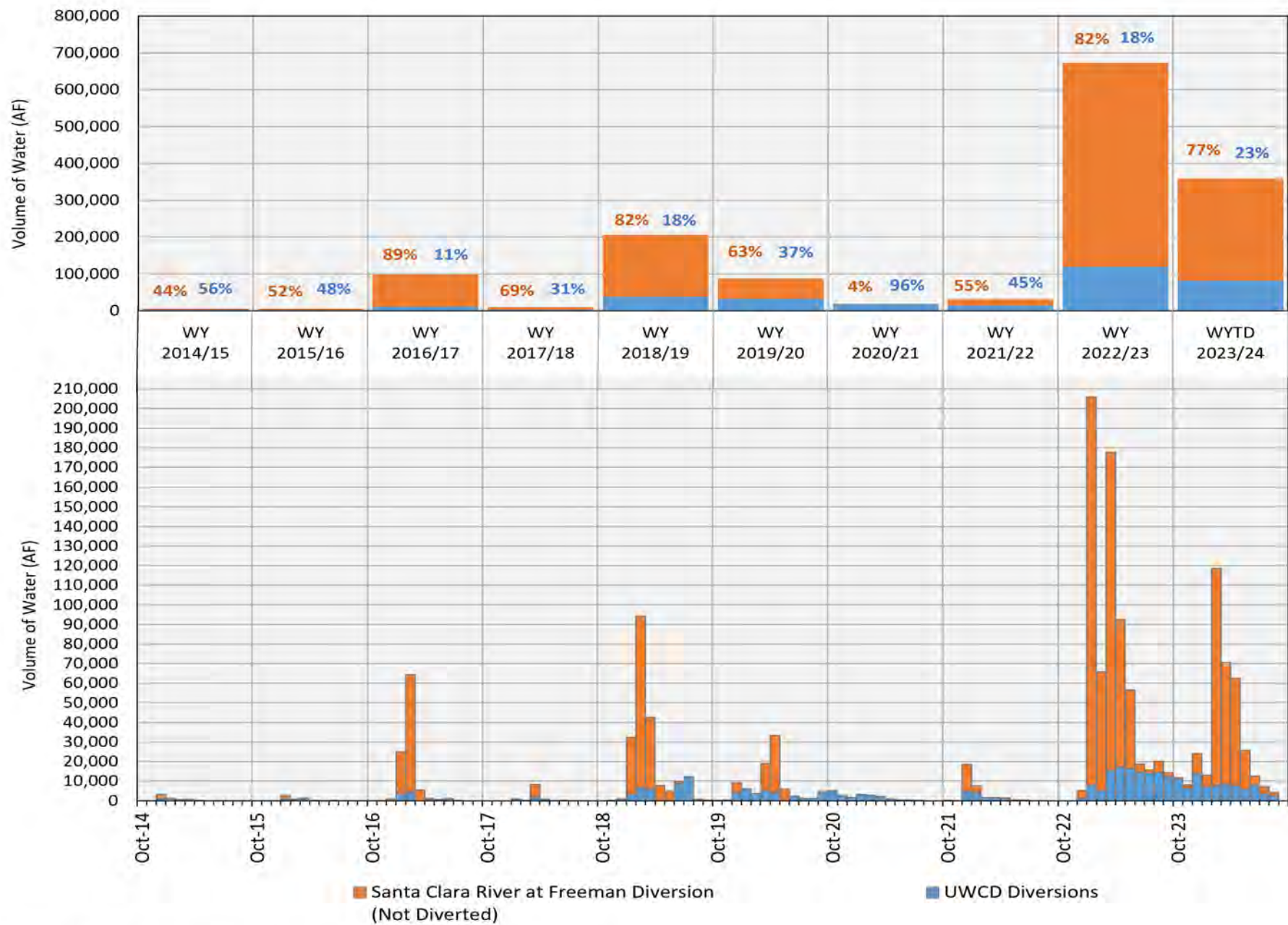






Available Storage in the Oxnard Forebay - Last 10 Years





Water Year (WY) = October 1 to September 30; WYTD = Water Year To Date



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Anthony A. Emmert, Assistant General Manager

From: Brian H. Zahn, Chief Financial Officer
Sara Guzman, Finance Supervisor

Date: September 23, 2024 (October 9, 2024, meeting)

Agenda Item: 3.3 Investment Monthly Report (August 2024)
Information Item

Staff Recommendation:

Review the most current investment reports for the month ending August 31, 2024.

Discussion:

Based on the information included in the attached report, staff will present a summary and discuss key information as an overview.

Fiscal Impact:

As shown.

Attachment:

Combined Investment Monthly Report – August 2024

ATTACHMENT

United Water Conservation District Monthly Investment Report August 31, 2024

<u>Investment Recap</u>	<u>G/L Balance</u>	<u>Weighted Avg Days to Maturity</u>	<u>Diversification Percentage of Total</u>
Citizens Business Bank	6,738,704	1	18.46%
Petty Cash	5,400	1	0.01%
County Treasury	1,884	1	0.01%
LAIF Investments	29,759,145	1	81.51%
Total Cash, Cash Equivalents and Securities	36,505,133		100.00%
 Investment Portfolio w/o Trustee Held Funds	36,505,133		
Trustee Held Funds	-		
Total Funds	36,505,133		

Local Agency Investment Fund (LAIF)	Beginning Balance	Deposits (Disbursements)	Ending Balance
	29,759,145	-	29,759,145
	Interest Earned YTD	Interest Received YTD	Qtrly Yield
	-	345,209	4.55%

ll District investments are shown above and conform to the District's Investment Policy. All investment transactions during this period are included in this repor
Based on budgeted cash flows the District appears to have the ability to meet its expenditure requirements for the next six months.

DocuSigned by:

51950C116BDC414...

Mauricio E. Guardado, Jr., General Manager

9/24/2024

Date Certified

DocuSigned by:

70D59ECF0D8D46E...

Anthony Emmert, Assistant General Manager

9/23/2024

Date Certified

DocuSigned by:

6685DB362A674A3...

Brian H. Zahn, Chief Financial Officer

9/23/2024

Date Certified

United Water Conservation District			
Cash Position			
August 31, 2024			
Fund	Total	Composition	Restrictions/Designations
General/Water Conservation Fund:			Revenue collected for district operations
General/Water Conservation	8,722,398	(3,806,810)	Includes General, Rec & Ranger, Water Conservation
		4,962,000	Reserved for legal expenditures
		1,715,556	Designated for replacement, capital improvements, and environmental projects
		5,851,651	Supplemental Water Purchase Fund
General CIP Funds	12,878,882	12,878,882	Appropriated for capital projects
	5,301,352	5,301,352	Reserved for CIP Projects
Special Revenue Funds:			Revenue collected for a special purpose
State Water Project Funds	3,564,470	3,564,470	Procurement of water/rights from state water project
Enterprise Funds:			Restricted to fund usage
Freeman Fund	(1,253,426)	(1,253,426)	Operations, Debt Service and Capital Projects
		-	Designated for replacement and capital improvements
		-	Reserved for legal expenditures
Freeman CIP Fund	2,338,437	2,338,437	Appropriated for capital projects
OH Pipeline Fund	(69,876)	(69,876)	Delivery of water to OH customers
OH CIP Fund	1,713,886	1,713,886	Appropriated for capital projects
OH Pipeline Well Replacement Fund	(149,977)	(149,977)	Well replacement fund
PV Pipeline Fund	974,322	974,322	Delivery of water to PV customers
PV CIP Fund	241,019	241,019	Appropriated for capital projects
PT Pipeline Fund	1,367,812	1,367,812	Delivery of water to PTP customers
PT CIP Fund	875,835	875,835	Appropriated for capital projects
Total District Cash & Investments	36,505,133	36,505,133	



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado Jr., General Manager
Anthony A. Emmert, Assistant General Manager

From: Brian Zahn, Chief Financial Officer

Date: September 19, 2024 (October 9, 2024, meeting)

Agenda Item: 3.4 Approval of the Request from Sierra Pacific Farms, Inc. to Waive the Penalties and Interest Charges for Late Submission and Payment
Motion

Staff Recommendation:

Approve the request from Sierra Pacific Farms, Inc.'s (Sierra) to waive penalties and interest charges of \$11,079.48 for a late payment and filing for well numbers 04N19W26P02S, 04N18W19P02S, 03N20W03P01S, 03N20W03J02S, 04N19W26J03S, and 04N18W30E01S.

Discussion:

Sierra has requested a waiver for \$11,079.48 in penalty and interest charges due to the late reporting and payment for July to December 2023. Their Accounts Payable Manager Mr. Alex Morales explained that he emailed the statements to gwreporting@gmail.com instead of the correct address, gwreporting@unitedwater.org. He forwarded the email to the District to show that Sierra submitted the statements before the due date.

The District received full payment from Sierra on March 7, 2024, for the groundwater production of all their wells.

Fiscal Impact:

Forfeiture of \$11,079.48 of General Water Conservation Funds, which were not previously anticipated or included in the adopted budget.

Breakdown of Penalty and Interest Charges:

Well Number	GW 2023-2 P&I	Previous 3 Year P&I Waiver
04N19W26P02S	\$1,053.03	No
04N18W19P02S	\$388.97	No
03N20W03P01S	\$2,240.70	No
03N20W03J02S	\$91.84	No
04N19W26J03S	\$2,324.96	No
04N18W30E01S	\$4,979.98	No
Total:	\$11,079.48	



Staff Report

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Ph.D., P.E., Chief Engineer
Marissa Caringella, Environmental Services Manager
Nathan Summerville, P.E., Senior Engineer
Hannah Garcia-Wickstrum, Environmental Scientist

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 3.5 Adopt a Resolution Approving and Adopting the California Environmental Quality Act Initial Study-Mitigated Negative Declaration and issuance of the Notice of Determination for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (CIP 8018)
Motion

Staff Recommendation:

Adopt a Resolution approving and adopting the Initial Study-Mitigated Negative Declaration (IS-MND) and accompanying Mitigation Monitoring and Reporting Program (MMRP) for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (Project), authorizing its implementation by the General Manager, and directing the Environmental Services Manager to file a Notice of Determination in accordance with the California Environmental Quality Act (CEQA).

Discussion:

The District is the lead agency for the Project under CEQA. The purpose of the Project is to recharge groundwater during wet conditions when additional surface water flows are available. The Noble Basin and Ferro Basin, located along Vineyard Avenue, are among the approximately 600 acres of spreading grounds United operates. The Ferro Basin is not currently connected to United's diversion and recharge infrastructure and cannot be used for groundwater recharge. United proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Noble Basin to the Ferro Basin, which would enable the conveyance of water to the Ferro Basin for groundwater recharge. United estimates connecting the basins would provide an additional 2,000 to 3,000 acre-feet of groundwater recharge per year on average. The Project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations.

3.5 Adopt a Resolution Approving and Adopting the California Environmental Quality Act Initial Study-Mitigated Negative Declaration and issuance of the Notice of Determination for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (CIP 8018)
Motion

Mission Goal:

The Project meets mission-related Goal A (Water Supply) and Goal B (System Reliability), and the CEQA document meets Goal C (Regulatory and Environmental Compliance).

Fiscal Impact:

The California Department of Fish and Wildlife environmental filing fee is \$ 2,916.75 and the County Clerk and Recorder's Office filing fee for the CEQA NOD is \$50.00 which is included in the Adopted Fiscal Year 2024-2025 Budget under account 051-400-81080; 8018-815.

Attachments:

Attachment A – Resolution

Attachment B – Initial Study-Mitigated Negative Declaration

Attachment C – Response to Comments Matrix

Attachment D – Mitigation Monitoring and Reporting Program

Attachment E – Notice of Determination

ATTACHMENT A

RESOLUTION

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT MAKING CERTAIN FINDINGS AND DETERMINATIONS IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT FOR ADOPTION OF A MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM AND APPROVAL OF THE GROUNDWATER RECHARGE CAPACITY EXPANSION PROJECT - FERRO RECHARGE

WHEREAS, the United Water Conservation District ("District") proposes to conduct the Groundwater Recharge Capacity Expansion Project – Ferro Recharge ("Project") by constructing an undercrossing at Vineyard Avenue through installation of two reinforced concrete pipelines, 60 inches in diameter and approximately 520 feet in length, to connect the Ferro and Noble Basins and constructing metal grating and control gates on the open ends of the pipelines within the Ferro and Noble Basins respectively, to prevent public access and control flow; and

WHEREAS, once the proposed Project is complete, water would be conveyed from the Noble Basin to the Ferro Basin via gravity; and

WHEREAS, the proposed Project is for the purpose of recharging groundwater during wet conditions when additional surface water flows are available and would not modify the District's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations; and

WHEREAS, the proposed Project is located in an unincorporated area of the County of Ventura approximately one mile north of the Oxnard city limits and three miles northeast of the Camarillo city limits; and

WHEREAS, California Public Resources Code Section 21000 et seq. sets forth the provisions of the California Environmental Quality Act ("CEQA"), and regulations set forth at Title 14, Division 6, Chapter 3 (commencing with Section 15000) of the California Code of Regulations constitute the "State Guidelines for Implementation of the California Environmental Quality Act" (the "State CEQA Guidelines"); and

WHEREAS, CEQA requires that, in the consideration of approval of a project for which a mitigated negative declaration has been prepared, the decision-making body shall review the mitigated negative declaration and make certain findings regarding the potentially significant effects on the environment identified in the mitigated negative declaration; and

WHEREAS, such decision-making body in this case is the District's Board of Directors ("Board"); and

WHEREAS, the proposed Project is the subject of a mitigated negative declaration entitled "Initial Study Mitigated Negative Declaration Groundwater Recharge Capacity Expansion Project – Ferro Recharge" (SCH # 2024071176) ("IS/MND"), prepared by the District as lead agency under CEQA (a true and correct copy of the draft IS/MND is attached hereto as Exhibit "A"); and

WHEREAS, the District published a Notice of Intent to Adopt an Initial Study/MND ("Notice of Intent") in the *Ventura County Star* newspaper on August 1, 2024; and

WHEREAS, on July 30, 2024, the District emailed the Notice of Intent to Fox Canyon Groundwater Management Agency, Ventura County Department of Transportation, Ventura County Watershed Protection District, and Ventura County Department of Planning; and

WHEREAS, on July 30, 2024, the District posted the Notice of Intent and the draft IS/MND on its website: <https://www.unitedwater.org/key-documents>; and

WHEREAS, on July 30, 2024, the District filed a "Notice of Completion," a "Summary Form for Electronic Document Submittal," the Notice of Intent and the draft IS/MND with the State Clearinghouse and Planning Unit of the Governor's Office of Planning and Research; and

WHEREAS, on July 30, 2024, the Notice of Intent was posted by the Ventura County Clerk-Recorder; and

WHEREAS, in compliance with State CEQA Guidelines section 15073(a), the public review period for the draft IS/MND commenced on July 30, 2024, and continued through August 29, 2024 ("Public Review Period"); and

WHEREAS, a copy of the draft IS/MND was available for review at the District's office, located at 1701 N. Lombard Street, Suite 200, Oxnard, California 93030 during the Public Review Period; and

WHEREAS, the Ventura County Air Pollution Control District, Ventura County Environmental Health Division, Ventura County Public Works Watershed Planning and Permits Division, California Department of Fish and Wildlife, and California Department of Transportation provided the only comments on the draft IS/MND during the Public Review Period (a true and

correct copy of the comments and responses is attached hereto as Exhibit “B”); and

WHEREAS, the draft IS/MND concluded that implementation of the proposed Project could result in potentially significant effects on the environment, and further identified mitigation measures that would reduce any potentially significant effects to a point where clearly no significant effect on the environment would occur; and

WHEREAS, such mitigation measures are set forth in a Mitigation Monitoring and Reporting Program (“MMRP”) prepared by the District, as lead agency, together with and as part of the draft IS/MND (a true and correct copy of the MMRP is attached hereto as Exhibit “C”); and

WHEREAS, with the incorporation and implementation of measures contained in the MMRP into the proposed Project, any potentially significant effects on the environment arising from the proposed Project will be reduced to a point where clearly no significant effect on the environment would occur; and

WHEREAS, the District has independently reviewed and analyzed the draft IS/MND and the draft IS/MND reflects the independent judgment and analysis of the District; and

WHEREAS, the draft IS/MND, the MMRP and the comments received from the Ventura County Air Pollution Control District, Ventura County Environmental Health Division, Ventura County Public Works Watershed Planning and Permits Division, California Department of Fish and Wildlife, and California Department of Transportation are hereby incorporated into this Resolution as if fully set forth herein; and

WHEREAS, the draft IS/MND has not been substantially revised after public notice of its availability (which would require recirculation pursuant to State CEQA Guidelines section 15073.5); and

WHEREAS, the District held a duly noticed public meeting on October 9, 2024, to receive additional public comments on the IS/MND and the proposed Project; and

WHEREAS, the draft IS/MND, the public comments and response(s) thereto, and the MMRP constitute the “Final IS/MND;” and

WHEREAS, the Board has reviewed and considered the environmental information contained in the Final IS/MND and has determined that it is adequate, complete, and has been prepared in accordance with CEQA and the State CEQA Guidelines.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT AS FOLLOWS:

1. All of the above-listed recitals and attachments are incorporated herein by this reference and shall hereinafter be deemed to be the findings of the Board.

2. The draft IS/MND has not been substantially revised after public notice of its availability (which would require recirculation pursuant to State CEQA Guidelines section 15073.5).

3. The Board has reviewed all written public comments submitted to the District, and oral public comments made at the public meeting on October 9, 2024.

4. The Board finds that (1) the Final IS/MND was presented to and considered by the Board; (2) the Board has reviewed and considered the information contained within the Final IS/MND, including public comments and responses to such comments; (3) the Final IS/MND has been completed in compliance with CEQA and State CEQA Guidelines; (4) with the incorporation and implementation of measures contained in the MMRP into the proposed Project, any potentially significant effects on the environment arising from the proposed Project will be reduced to a point where clearly no significant effect on the environment would occur; (5) there is no substantial evidence in light of the whole record before the District supporting a fair argument that the proposed Project, with the incorporation of the identified mitigation measures in the Final IS/MND, may have a significant effect on the environment; (6) the Final IS/MND reflects the Board's independent judgment and analysis; and (7) the Board hereby adopts the Final IS/MND, along with all responses to public comments on the Final IS/MND.

5. The Board hereby approves and adopts the mitigation measures contained in the Final IS/MND and the program for reporting on or monitoring the changes that the Board has required in the proposed Project to mitigate or avoid significant environmental effects as set forth in the MMRP.

6. The Board hereby approves the proposed Project and authorizes its implementation when deemed appropriate by the General Manager.

7. The Board designates the District's Environmental Services Manager as the custodian of documents and the record of proceedings on which this decision is based are on file at the District's office, located at 1701 N. Lombard Street, Suite 200, Oxnard, California 93030.

8. The Board authorizes and directs the District's Environmental Services Manager to file a Notice of Determination in accordance with the provisions of CEQA.

PASSED, APPROVED AND ADOPTED this 9th day of October 2024

ATTEST: _____
Sheldon G. Berger, Board President

ATTEST: _____
Catherine P. Keeling, Board Secretary/Treasurer

ATTACHMENT B



Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Final Initial Study – Mitigated Negative Declaration

prepared by

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

prepared with the assistance of

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, California 93003

September 2024

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Initial Study

1. Project Title

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

2. Lead Agency/Project Sponsor and Contact

Lead Agency/Project Sponsor

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

Contact Person

Hannah Garcia-Wickstrum, Environmental Scientist
United Water Conservation District
(805) 525-4431
hannahg@unitedwater.org

3. Project Location

The project site is located in unincorporated Ventura County, approximately one mile north of the Oxnard city limits and three miles northeast of the Camarillo city limits (see Figure 1). The project site is located within the Oxnard Subbasin of the Santa Clara River Valley groundwater basin. The project site traverses State Route (SR) 232 (Vineyard Avenue) in an undeveloped area between properties located at 5625 Vineyard Avenue and 5721 Vineyard Avenue. The project site also includes portions of existing groundwater spreading basins maintained and operated by United Water Conservation District (United), including a portion of the Noble Basin located east of Vineyard Avenue and a portion of the Ferro Basin located west of Vineyard Avenue.

Figure 1 shows the regional location of the project site, and Figure 2 and Figure 3 show the project alignment at a local scale. Figure 4 shows photographs of the project site.

4. Surrounding Land Uses

The project site is generally surrounded by agricultural and agricultural commercial land uses. Agricultural land uses and produce retailers are located to the north and south, the Ferro Basin is located to the west, and the Noble Basin is located to the east. Residences are located approximately 500 feet northeast of the pipeline alignment's intersection with Vineyard Avenue. The project site is located approximately 0.3 mile east of the Santa Clara River.

United Water Conservation District
Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Figure 1 Regional Project Location



★ Project Location

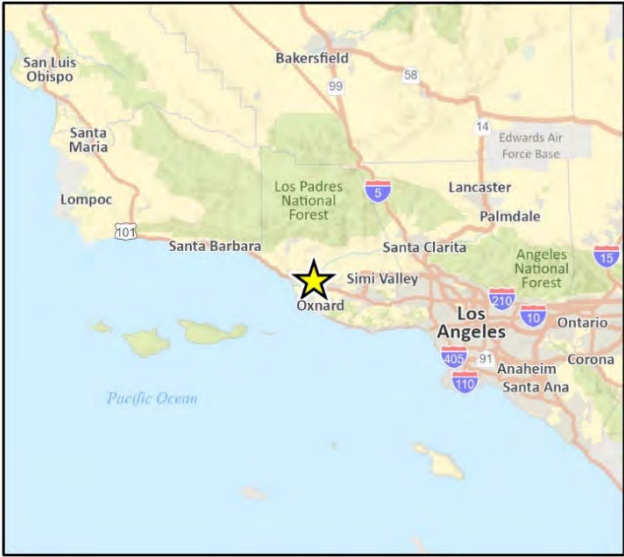


Figure 2 Project Site Location



Figure 3 Project Site Location – Northern Extent

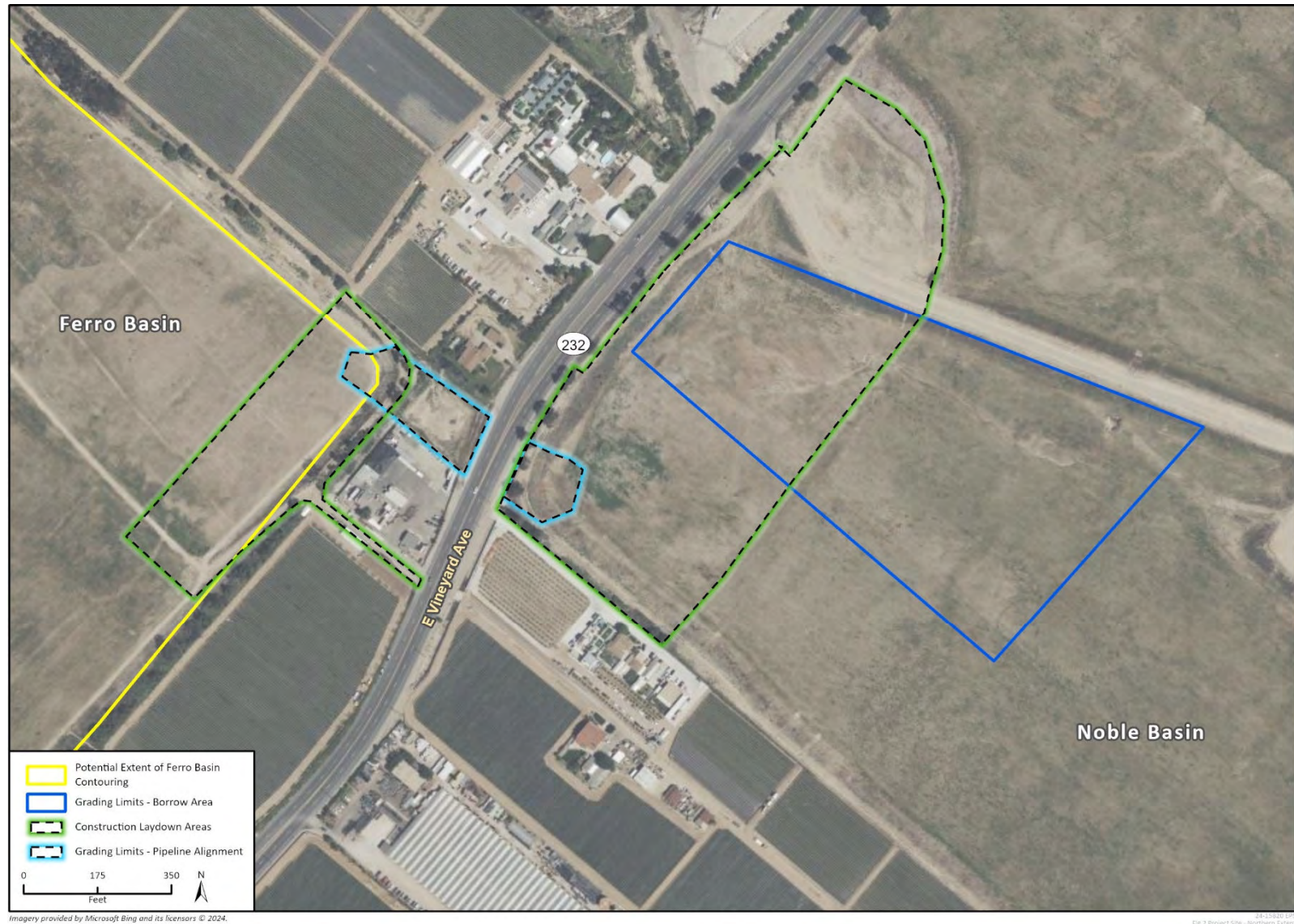


Figure 4 Site Photographs



Photograph 1. The Ferro Basin from the grading limits west of Vineyard Avenue, facing north.



Photograph 2. The Noble Basin from the grading limits east of Vineyard Avenue, facing north.



Photograph 3. The borrow area in the Noble Basin, facing south.



Photograph 4. Construction laydown area in the Ferro Basin, facing south.

5. General Plan Designation

The project site is within the El Rio/Del Norte Area Plan of the Ventura County 2040 General Plan, and is designated as Agricultural. A portion of the pipeline alignment would be located within the public right-of-way of Vineyard Avenue, which does not have a Ventura County 2040 General Plan designation (County of Ventura 2020).

6. Zoning

The project site is zoned Agricultural Exclusive (AE-40 ac) and is within a Mineral Resources Protection overlay zone. A portion of the pipeline alignment would be located within the public right-of-way of Vineyard Avenue, which does not have a County of Ventura zoning designation (County of Ventura Resource Management Agency 2024).

7. Description of Project

Project Background

United is a California Special District, originally formed as the Santa Clara Water Conservation District in 1927, then transitioned to its current role by voter approval in 1950. United's mission is to manage, protect, conserve, and enhance the water resources of the Santa Clara River, its tributaries, and associated aquifers. United's boundaries encompass nearly 213,000 acres of central and southern Ventura County, including the Ventura County portion of the Santa Clara River Valley and the Oxnard Plain. Within this area, United operates and maintains several water facilities, groundwater recharge basins, and associated water delivery infrastructure. These facilities directly and indirectly provide potable water to municipal customers and irrigation supplies in the Oxnard area, sometimes in lieu of coastal groundwater extractions. United's operations facilitate groundwater recharge, mitigate seawater intrusion and groundwater overdraft across the Oxnard Plain, and provide water supply for municipal, industrial, and agricultural uses in Ventura County.

United operates and maintains approximately 600 acres of spreading grounds (also referred to as "basins"), which are used to percolate water and recharge groundwater supplies with Santa Clara River water diverted at the Freeman Diversion. The water diverted at the Freeman Diversion is limited to the amount that can be legally diverted pursuant to United's State Water Resources Control Board (SWRCB) License 10173, which was issued in 1973; and Permit 18908, which was issued in 1982 and amended in 1987 and 1992. United's maximum annual diversion volume on a calendar year basis is 144,630 acre-feet. However, under typical conditions, an average of approximately 60,000 acre-feet per year of surface flow is diverted at the Freeman Diversion.

In previous years when conditions were dry with less precipitation, United did not have a need for additional groundwater recharge capacity as its current basins were sufficient. However, during periods of heavy precipitation, United is currently constrained by the infiltration rates of the existing spreading grounds, and therefore needs to make use of opportunities to recharge additional surface water within permitted diversion amounts.

The Noble Basin and Ferro Basin, located along Vineyard Avenue, are among the approximately 600 acres of spreading grounds United operates. The Ferro Basin is not currently connected to United's diversion and recharge infrastructure and cannot be used for groundwater recharge. United

proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Noble Basin to the Ferro Basin, which would enable the conveyance of water to the Ferro Basin for groundwater recharge. United estimates connecting the basins would provide an additional 2,000 to 3,000 acre-feet of groundwater recharge per year on average.

Project Description

The Groundwater Recharge Capacity Expansion Project – Ferro Recharge (Project) would involve construction of an undercrossing at Vineyard Avenue through installation of two reinforced concrete pipelines, 60 inches in diameter and approximately 520 feet in length, to connect the Ferro Basin to the Noble Basin. Pursuant to California Department of Transportation (Caltrans) requirements, the portion of the pipeline within the Vineyard Avenue right-of-way would be installed via trenchless methods. The remaining portion of the pipeline would be installed via open cut trench. The project would also involve the construction of metal grating and control gates on the open ends of the pipelines within the Ferro and Noble Basins respectively, to prevent public access and control flow. Once complete, water would be conveyed from Noble Basin to Ferro Basin via gravity.

The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations.

Construction Activities

Project construction would occur over approximately six to eight months. United would initiate construction as early as July 2025; however, United could delay construction to be complete by June 2027. To provide a conservative analysis, both potential construction start dates are considered herein. Anticipated project phases and their durations are summarized in Table 1. Actual project phasing would be determined by the construction contractor.

Table 1 Anticipated Construction Schedule

Construction Phase	Estimated Duration
Construction Mobilization and Procurement	8 to 11 weeks
Trenchless Pipeline Installation	3 to 6 weeks
Open Cut Trench Pipeline Installation	3 to 5 weeks
Grading and Contouring (Noble Basin)	3 weeks
Construction of Gates	3 to 4 weeks
Construction of Grating	2 to 3 weeks
Start of Project Operation	2 to 3 weeks
Potential Ferro Basin Grading and Contouring	4 weeks

Construction activities would generally occur from 6:30 a.m. to 6:30 p.m., Monday through Friday. Trenchless pipeline installation, described further below, may require constant (24 hours a day, 7 days a week) construction activities. Construction equipment staging and worker parking areas would be located in the southwestern portion of the Noble Basin and the northeastern portion of the Ferro Basin, as shown in Figure 2. Construction personnel would adhere to the Public Resources Code to minimize fire risk; these regulations include PRC Section 4442, which requires earth-moving

and portable construction equipment with internal combustion engines to use spark arrestors when operating on any forest-covered, brush-covered, or grass-covered land.

If groundwater conditions are approaching historical high levels during project construction, it is possible that groundwater would be encountered and that construction activities would require groundwater dewatering. Dewatered groundwater would be percolated in a separate area of the basin where it was encountered (e.g., groundwater encountered in the Ferro Basin would be percolated elsewhere in the Ferro Basin).

Trenchless Pipeline Installation

The portion of the pipelines within the right-of-way of Vineyard Avenue would be installed via trenchless construction methods such as jack and bore or micro-tunneling. Trenchless pipeline installation would involve excavation of entry and exit pits on either end of the pipeline alignment, and the use of an auger and hydraulic jacks to push pipe casing through the ground between the pits. After completion of the casing, the proposed pipelines would then be installed inside the casing. The pipeline may also be direct jacked, without a casing. Micro-tunnelling would involve the use of drilling fluid to prevent caving. Pursuant to Caltrans requirements, the pipelines would be installed with a minimum spacing of 156 inches apart. The entry pit, which would be located on the west side of Vineyard Avenue outside of the right-of-way, would be approximately 35 feet by 40 feet and the exit pit, which would be located on the east side of Vineyard Avenue outside of the right-of-way, would be approximately 20 feet by 35 feet in size. The maximum excavation depth during this phase would be 25 feet.

Trenchless installation would occur over approximately three to six weeks. Trenchless installation may require the removal of three trees. Temporary traffic controls such as flaggers may be required as construction workers monitor Vineyard Avenue during trenchless construction; however, project construction would not require closure of Vineyard Avenue.

Open Cut Trench Pipeline Installation

The remaining portion of the pipeline alignment, west and east of Vineyard Avenue and outside of the right-of-way, would be installed via open cut trench. Open cut trench pipeline installation would involve excavation of a trench, installation of the new pipelines, and then backfilling the trench with soil. The average excavation depth would be 15 feet, and the maximum depth of excavation is anticipated to be 25 feet. Open cut trench pipeline installation would likely occur once trenchless installation is complete and is anticipated to occur over three to five weeks.

Construction Grading and Contouring

The limits of grading activities are shown in Figure 2. As shown therein, grading would occur on either side of Vineyard Avenue along the pipeline alignment, which would include the entry and exit pits required for trenchless installation. Grading and contouring would occur after pipeline installation. Additionally, an area in the northern portion of the Noble Basin would be used as a “borrow area,” or an area in which the construction contractor would excavate materials to create an embankment on the eastern end of the pipelines. Approximately 2,800 cubic yards of soil would be excavated from the Noble Basin borrow area and used to create the embankment.

After installation of the pipeline is complete, United may contour some or all of the Ferro Basin to facilitate recharge. To provide a conservative analysis, the maximum extent of possible contouring is considered herein. Contouring of the Ferro Basin would involve excavation of a maximum of 50,000

cubic yards, and contouring would occur at least 100 feet away from the west property boundary of Ferro Basin. Contouring would occur over approximately four weeks. Overall, there would be no net soil import or export from the project site, and the project would not require hauling of excavated soil across Vineyard Avenue from one basin to the other. Project construction would not require closure of Vineyard Avenue.

Pipeline Features

Once the pipelines are installed, two control gates would be installed on the eastern end of the pipelines within Noble Basin to provide hydraulic control. The gates would also prevent public access when Ferro Basin is not active. A pipe exit structure, including metal grating to prevent access to the pipelines, would be installed on the western end of the pipelines within the Ferro Basin.

Construction General Best Management Practices

The project would incorporate the following general best management practices (BMPs) to minimize or avoid potential impacts to biological resources within the project site:

- Project-related vehicles would observe a five-mile-per-hour speed limit within the unpaved limits of construction.
- All open trenches would be fenced and sloped to prevent entrapment of wildlife species.
- All hollow posts and pipes would be capped, and metal fence stakes would be plugged with bolts or other plugging materials to prevent wildlife entrapment and mortality.
- If construction lighting is required during construction hours, lighting would be shielded and downcast to avoid potential impacts to wildlife migration.
- No deliberate feeding of wildlife would be allowed.
- No pets would be allowed on the project site.
- Before starting or moving construction vehicles at the beginning of each day, a sweep shall be conducted, including inspection under all vehicles to avoid impacts to any wildlife that may have sought refuge on or under equipment. All large building materials and pieces with crevices where wildlife could potentially hide would also be inspected before moving. If wildlife is detected, a qualified biologist would temporarily stop activities until the animal leaves the area. If the animal does not leave the area on its own, a qualified biologist would move the animal out of harm's way. In the case of federal or state-listed species, relocation should be carried out in accordance with regulatory authorizations issued under the Endangered Species Act and/or California Endangered Species Act, Fish and Game Code §§ 1002, 1002.5, 1003, and/or Cal. Code Regs., tit. 14, § 650. United would consult with CDFW prior to relocation of any special status or listed species.
- Rodenticides and second-generation anticoagulant rodenticides would be prohibited.

The project would also incorporate the following Ventura County Air Pollution Control District BMPs to minimize or avoid potential impacts related to fugitive dust within the project site:

RULE 51

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endangers the comfort, repose, health or safety of any such

persons or the public or which cause or have a natural tendency to cause injury or damage to business or property (Ventura County Air Pollution Control District 2004).

RULE 55

- No one shall cause or allow fugitive dust from any applicable source beyond the midpoint (width) of a public street or road adjacent to the property line of the emission source or beyond 50 feet from the property line if there is not an adjacent public street or road.
- No one shall cause or allow fugitive dust from any applicable source that equals or exceeds 20 percent opacity for 3 minutes or more in any one hour.
- No person shall allow track-out to extend 25 feet or more in length unless one of the following control measures is used:
 - Track-Out Area Improvement: Pave or apply chemical stabilization to maintain a stabilized surface starting from the point of intersection with the public paved surface, and extend for a distance of at least 100 feet with a width to accommodate traffic ingress and egress from the site.
 - Track-Out Prevention: Check and clean the undercarriage and wheels on all vehicles before leaving unpaved surface or install a track-out control device(s) that prevents track-out of soil onto paved public roads.
 - Track-Out Removal: Remove track-out from pavement as soon as possible but no later than one hour after it has been deposited on the road. If a street sweeper is used to remove any track-out, only “PM10-efficient” street sweepers certified to meet South Coast AQMD Rule 1186 requirements shall be used. The make, model information and certification documentation of any sweeper used shall be made available to APCD personnel upon request.
- All track-out shall be removed at the conclusion of each workday or evening shift. The use of blowers for removal of track-out is prohibited.
- No person shall engage in earth-moving activities in a manner that creates visible dust emissions over 100 feet in length.
- No person shall conduct an operation with a monthly import or export of 2,150 cubic yards or more of bulk material without utilizing at least one of the following measures at each vehicle egress from the site to a public paved road:
 - Install a pad consisting of washed gravel (one inch minimum size) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.
 - Pave the surface at least 100 feet long and at least 20 feet wide.
 - Utilize a wheel shaker/wheel spreading device, also known as a rumble grate, consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and sufficient width to allow all wheels of vehicle traffic to travel over grate to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
 - Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
 - Any other control measure or device that prevents track-out onto public paved roads.

- No person, including the facility or site operator, shall load or allow the loading of bulk materials or soil onto outbound trucks unless at least one of the following dust prevention measures is used:
 - Use properly secured tarps or covering that covers the entire surface area of the load or use a container-type enclosure.
 - Maintain a minimum of 6 inches of freeboard below the rim of the truck bed where the load touches the sides of the cargo area and ensure that the peak of the load does not extend above any part of the upper edge of the cargo area.
 - Water or treat the bulk material to minimize the loss of material to wind or spillage.
 - Any other effective dust prevention control measures (Ventura County Air Pollution Control District 2008).

Operation and Maintenance

The proposed pipeline infrastructure would require periodic maintenance, including occasional clearing of debris from the metal grating, vegetation mowing in the basins, and pumping of standing water out of pipelines at the end of wet seasons. In dry years, the project would not result in an increase in operations and maintenance trips compared to existing conditions. Daily trips would be required to the Ferro Basin when the basin is being utilized for groundwater recharge. Operation of the project would result in a minor increase in vehicle trips compared to existing conditions, as United staff visits the Noble basin daily during wet years and would subsequently visit the Ferro Basin in the same trip. Water would flow through the pipelines via gravity flow, and the project would not require a power source during operation.

8. Other Public Agencies Whose Approval is Required

United is the lead agency for this project. A Caltrans Utility Encroachment Permit would be required for trenchless pipeline installation within the Vineyard Avenue right-of-way.

Because project construction would disturb greater than one acre of soil, United would be required to obtain coverage from the State Water Resource Control Board's Construction Stormwater General Permit (Order No. 2022-0057-DWQ, National Pollutant Discharge Elimination System No. CAS000002).

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Environmental Factors Potentially Affected

This project would potentially affect the environmental factors checked below, involving at least one impact that is “Potentially Significant” or “Less than Significant with Mitigation Incorporated” as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☒ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Energy
☒ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☒ Noise	☐ Population and Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	☒ Mandatory Findings of Significance

Determination

Based on this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a “potentially significant impact” or “less than significant with mitigation incorporated” impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- ☐ I find that although the proposed project could have a significant effect on the environment, because all potential significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

Date

Printed Name

Title

Environmental Checklist

1 Aesthetics

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Except as provided in Public Resources Code Section 21099, would the project:				
a. Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b. Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?	☐	☐	☒	☐

a. Would the project have a substantial adverse effect on a scenic vista?

The Ventura County General Plan Conservation and Open Space Element establishes Goal COS-3, which seeks to preserve, protect, and enhance the unique scenic resources in Ventura County, and ensure access to scenic resources within Ventura County for present and future generations (County of Ventura 2020). Ventura County offers a variety of scenic resources including panoramic views of the Santa Monica Mountains in the south, northern vistas of the Topatopa mountain range in the Los Padres National Forest, and scenic views of coastal beaches and cliffs in the west (County of Ventura 2020). Scenic vistas visible from the project site include distant views of the Topatopa mountains to the north. Construction activities would require construction vehicles and materials to be located on site. However, construction would be short-term and temporary, and would not substantially affect long-range views from publicly-accessible areas around the project site. Construction impacts on scenic vistas would be less than significant.

After construction, the proposed pipelines would be located entirely below ground. Pipeline entry and exit gates would be located with the Noble and Ferro Basins behind existing berms and would not be visible from the roadway. Therefore, project operation and maintenance would have no potential to adversely affect views of scenic vistas in the local area.

LESS-THAN-SIGNIFICANT IMPACT

- b. *Would the project substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?*

SR 33, also known as Maricopa Highway, is the closest state-designated scenic highway to the project site (Caltrans 2019). SR 33 is located approximately 13 miles northwest of the project site, and the project site is not visible from this highway due to distance and intervening topography. Given the distance from SR 33, the project would not substantially damage scenic resources within a state scenic highway. Therefore, no impact would occur.

NO IMPACT

- c. *Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

According to Public Resources Code Section 21071(b), an unincorporated area is considered “urbanized” if 1) the area is completely surrounded by one or more incorporated cities, the total population of the unincorporated area and the surrounding cities is at least 100,000 persons, and the population density of the unincorporated area is at least equal to the population density of the surrounding cities; or 2) the area is located within an urban growth boundary and has an existing residential population of at least 5,000 persons per square mile. The project site is located in unincorporated Ventura County. No incorporated cities are located to the south or east of the area and the project site is located outside of the City of Oxnard’s Sphere of Influence (City of Oxnard 2024). Therefore, the project site is located in a non-urbanized area.

The project would include installation of two underground pipelines, beneath Vineyard Avenue and within the Ferro Basin. Construction activities would require construction vehicles and materials to be located on site. Construction would be short-term and temporary, and would not substantially affect long-range views from publicly-accessible areas around the project site. Once construction is complete, the pipelines would be located underground and the entry and exit gates would not be visible from public viewpoints. Accordingly, public views of the project site and its surroundings would not change as compared to existing conditions upon the completion of construction. Therefore, impacts related to degradation of the existing visual character or quality would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- d. *Would the project create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?*

Project construction would primarily occur from 6:30 a.m. to 6:30 p.m. and is not anticipated to require construction lighting. Trenchless pipeline installation would require 24-hour-a-day construction activities, which would require temporary construction lighting. Construction lighting and vehicles would create a new source of light that could affect nighttime views in the area, including views from the nearest residence to the project site, located approximately 65 feet northeast. Per the *Project Description*, all temporary construction lighting would be shielded and downcast. Remaining land uses surrounding the project site are commercial properties, which would likely not be occupied at nighttime. Lighting and glare impacts during construction would be less than significant.

Operation and maintenance of the project would not permanently add reflective surfaces, such as windows or car windshields, or lighting to the project site or its surroundings. Therefore, project operation and maintenance would not create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area.

LESS-THAN-SIGNIFICANT IMPACT

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2 Agriculture and Forestry Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b. Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

- a. *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

The project site is primarily designated by the California Department of Conservation (DOC) as Urban and Built Up Land and Other Land. Most of the Ferro Basin, which would be graded and used for groundwater recharge, is designated as Farmland of Local Importance (DOC 2024a). However, the Ferro Basin is not currently used for agriculture. Prime Farmland is located outside of the project site adjacent to the proposed construction laydown areas; however, the project would not include activities which would result in the conversion of this Prime Farmland to non-agricultural uses. Because the project site is not located on land designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (which constitute Farmland), the project would not convert Farmland to non-agricultural use. No impact would occur.

NO IMPACT

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- b. *Would the project conflict with existing zoning for agricultural use or a Williamson Act contract?*

According to the DOC's California Williamson Act Enrollment Finder, the project site is not within land subject to a Williamson Act contract (DOC 2024b). The project site is zoned Agricultural Exclusive (AE-40 ac) and within the public right-of-way. Pursuant to California Government Code 53091, the building and zoning ordinances of a county or city do not apply to the location or construction of facilities for the production, storage, or transmission of water, wastewater, or electrical energy by a local agency. Accordingly, the project is exempt from the County's zoning ordinance and would not conflict with the County's Agricultural Exclusive zoning. No impact would occur.

NO IMPACT

- c. *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?*

The project site is not zoned forest land, timberland, or timberland zoned Timberland Production. The project site does not contain forest land or timberland. Therefore, the project would not conflict with or cause rezoning of forest land, timberland, or timberland zoned Timberland Production. No impact would occur.

NO IMPACT

- d. *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

The project site does not contain forest land. Therefore, the project would not result in the loss of forest land or conversion of forest land to non-forest use. No impact would occur.

NO IMPACT

- e. *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?*

The project site is not used for agriculture. The project site does not contain forest land or timberland. The Noble Basin is currently utilized by United for groundwater recharge. The Ferro Basin was previously used as a quarry and is not currently in agricultural use. The project would not convert adjacent agricultural land to non-agricultural uses. The project also would not construct buildings or structures that could result in the conversion of agricultural land. Additionally, the project would facilitate groundwater recharge, which would benefit agricultural activities in the region. Therefore, the project would not involve changes which could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur.

NO IMPACT

3 Air Quality

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☒	☐	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

a. *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

The project site is within the South Central Coast Air Basin (Basin) and subject to the jurisdiction of the Ventura County Air Pollution Control District (VCAPCD). VCAPCD has published the *Ventura County Air Quality Assessment Guidelines* (VCAPCD Guidelines) to provide lead agencies, consultants, and project applicants with a framework and uniform methods for preparing air quality evaluations for environmental documents (VCAPCD 2003). According to the VCAPCD Guidelines, a project may be inconsistent with the applicable air quality plan if it would cause the existing population to exceed forecasts contained in the most recently adopted air quality management plan (AQMP). The most recent AQMP adopted by VCAPCD, the 2022 AQMP, relies on the population forecasts from the Southern California Association of Governments' (SCAG) 2020 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) to project future emissions (VCAPCD 2022).

The project involves the construction of two pipelines and associated structures to convey water between the Noble Basin and Ferro Basin. The project does not include housing or other infrastructure that would result in population growth. Given the small-scale nature of project construction activities, it is likely construction workers would be drawn from the existing, regional workforce and would not indirectly result in the relocation of people to Ventura County. In addition, a minimal increase in operational vehicle trips would be required to operate and maintain the project. The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not result in an expanded water supply for United to distribute to additional consumers. Therefore, the project would not result in population growth and would not conflict with the population forecasts of the SCAG 2020 RTP/SCS. Subsequently, the project would not result in excess emissions beyond what is projected by the

2022 AQMP. Therefore, the project would not have the potential to conflict with or obstruct the implementation of the AQMP. No impact would occur.

NO IMPACT

- b. *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

VCAPCD is required to monitor air pollutant levels to ensure National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) for criteria air pollutants are met. If these standards are met for a specific pollutant, the Basin is classified as being in “attainment.” If these standards are not met for a specific pollutant, the Basin is classified as being in “nonattainment,” and VCAPCD is required to develop strategies to meet the standards which are currently exceeded. According to the California Air Resources Board (CARB) Area Designation Maps, the Ventura County portion of the Basin is designated nonattainment for the NAAQS for ozone and the CAAQS for ozone and particulate matter measuring 10 microns or less in diameter (PM₁₀) (CARB 2022a).

The VCAPCD Guidelines recommend specific air pollutant emission threshold levels for determining whether a project may have a significant adverse impact on air quality within the Basin. The project would have a significant impact if operational emissions exceed 25 pounds per day of reactive organic compounds (also referred to as reactive organic gases [ROG]) or 25 pounds per day of nitrogen oxides (NO_x). As noted in the VCAPCD Guidelines, the 25 pounds per day threshold for reactive organic compounds and nitrogen oxides is not intended to be applied to construction emissions because such emissions are temporary. Nevertheless, VCAPCD’s Guidelines state that construction-related emissions should be mitigated if estimates of reactive organic compounds or nitrogen oxides emissions from heavy-duty construction equipment exceed this threshold (VCAPCD 2003).

The VCAPCD has not established quantitative thresholds for particulate matter for either construction or operation. However, the VCAPCD indicates a project that may generate fugitive dust emissions in such quantities as to cause injury, detriment, nuisance, or annoyance to any considerable number of persons, or which may endanger the comfort, repose, health, or safety of any such person, or which may cause or have a natural tendency to cause injury or damage to business or property, would have a significant air quality impact. This threshold is applicable to the generation of fugitive dust during construction activities. The VCAPCD Guidelines recommend application of fugitive dust mitigation measures to all dust-generating activities. These measures are listed in the Project Description under Construction General Best Management Practices. Such measures include minimizing the project disturbance area, watering the site prior to commencement of ground-disturbing activities, covering all truck loads, and limiting on-site vehicle speeds to 15 miles per hour or less.

The California Emissions Estimator Model (CalEEMod), version 2022.1.1.22 was used to estimate the project’s air pollution emissions. CalEEMod uses project-specific information, including the project’s land uses, construction equipment parameters, and location to model a project’s construction emissions. The project would not include a substantial increase in operational air pollution because under existing conditions, United personnel take daily trips to the Noble Basin during wet years, and the additional distance to travel from the Noble Basin to Ferro Basin when the basin is being used for groundwater recharge would not result in substantial mobile emissions. Therefore, only construction emissions were modeled. Construction emissions modeled include emissions

generated by construction equipment used on site and emissions generated by vehicle trips associated with construction, such as worker and vendor trips. The analysis reflects construction of the project as described in Section 7 of the Project Description. CalEEMod modeling outputs are included in Appendix A.

Construction

Project construction would generate temporary air pollutant emissions primarily associated with fugitive dust (PM₁₀) and exhaust emissions from heavy construction equipment and construction vehicles. The project's estimated unmitigated construction emissions are summarized in Table 2. As shown therein, construction NO_x emissions would exceed the daily maximum threshold of 25 pounds per day established by VCAPCD. As shown in Appendix A, this exceedance would occur during the grading of the Ferro Basin due to the use of five scrapers simultaneously. Although this threshold is not intended to apply to construction because such emissions are temporary, VCAPCD recommends mitigation be required if NO_x construction emissions exceed 25 pounds per day. Accordingly, construction could potentially result in a cumulatively considerable net increase of NO_x in the Basin, and this impact would require implementation of Mitigation Measure AQ-1.

Table 2 Estimated Maximum Daily Air Criteria Pollutant Emissions – Construction, Unmitigated

	Estimated Maximum Daily Emissions (pounds per day)					
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Construction Emissions	4	31	28	<1	4	2
VCAPCD Thresholds	25	25	N/A	N/A	N/A	N/A
Threshold Exceeded?	No	Yes	N/A	N/A	N/A	N/A

ROG = reactive organic gases; NO_x = nitrogen oxides; CO = carbon monoxide; SO₂ = sulfur dioxide; PM₁₀ = particulate matter 10 microns or less in diameter; PM_{2.5} = particulate matter 2.5 microns or less in diameter

Construction would begin between July 2025 and June 2027. The analysis modeled construction to start in July 2025, which would conservatively estimate emissions since emissions factors would decrease in accordance to statewide plans to reduce air quality and GHG emissions.

See Appendix A for air quality modeling results

Project construction would be required to comply with VCAPCD Rule 55, which requires construction BMPs to control dust emissions during ground disturbing activities. BMPs include but are not limited to watering soil stockpiles two times per day, securing soil stockpiles with tarps, and prevention of soil track-out from unpaved project sites. These measures are listed in the Project Description under Construction General Best Management Practices. Compliance with Rule 55 would reduce potential PM₁₀ emissions such that the project would not cause injury, detriment, nuisance, or annoyance to any considerable number of persons. Compliance with VCAPCD Rule 55 would ensure construction PM₁₀ emissions would not violate air quality standards or result in a cumulatively considerable net increase of criteria pollutants.

Operation

The pipelines and associated infrastructure would not emit criteria air pollutants during operation because the pipelines would direct water via gravity flow and would not require a power source. The project would not include a substantial increase in emissions during operation because under

existing conditions, United personnel take daily trips to the Noble Basin during wet years, and the additional distance to travel from the Noble Basin to Ferro Basin (crossing Vineyard Avenue) when the basin is being used for groundwater recharge would not result in substantial additional mobile emissions. Therefore, project operational impacts related to a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard would be less than significant.

Mitigation Measure

AQ-1 Ferro Basin Grading NO_x Emissions Reduction

To reduce NO_x emissions during grading of the Ferro Basin, a minimum of two of the five scrapers shall be equipped with United States Environmental Protection Agency (USEPA) Tier 4 Final or better diesel engines, to the extent feasible. If two of the five scrapers are equipped with USEPA Tier 4 Final or better diesel engines, the other three scrapers may be any engine tier. Equipment engines must be maintained in good condition and in proper tune pursuant to manufacturer's specifications. If the contractor determines equipment with the required tier or fuel type is not reasonably available, United shall require the contractor to utilize a maximum of three scrapers during Ferro Basin grading. Construction equipment used to grade the Ferro Basin must be designated on construction plans and provided to United for review and approval prior to the start of construction.

Significance After Mitigation

Mitigation Measure AQ-1 would reduce construction NO_x emissions during grading of the Ferro Basin by either utilizing Tier 4 Final or better diesel engines concurrently for two of five scrapers or utilizing a maximum of three scrapers at any one time. The estimated construction emissions implementing these methods are shown in Table 3. As shown therein, with implementation of Mitigation Measure AQ-1, NO_x emitted during construction would be reduced below the VCAPCD threshold of 25 pounds per day. Therefore, with implementation of Mitigation Measure AQ-1, this impact would be less than significant.

Table 3 Estimated Maximum Daily Air Criteria Pollutant Emissions – Construction, Mitigated

	Estimated Maximum Daily Emissions (pounds per day)					
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Construction Emissions – Tier 4 Diesel Engines	3	21	36	<1	4	2
Construction Emissions – Three Scrapers	2	19	17	<1	4	2
VCAPCD Thresholds	25	25	N/A	N/A	N/A	N/A
Threshold Exceeded?	No	No	N/A	N/A	N/A	N/A

ROG = reactive organic gases; NO_x = nitrogen oxides; CO = carbon monoxide; SO₂ = sulfur dioxide; PM₁₀ = particulate matter 10 microns or less in diameter; PM_{2.5} = particulate matter 2.5 microns or less in diameter

Construction would begin between July 2025 and June 2027. The analysis modeled construction to start in July 2025, which would conservatively estimate emissions since emissions factors would decrease in accordance to statewide plans to reduce air quality and GHG emissions.

See Appendix A for air quality modeling results

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

c. Would the project expose sensitive receptors to substantial pollutant concentrations?

The VCAPCD defines sensitive receptors as facilities or land uses that include members of the population particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of sensitive receptors listed in the VCAPCD Guidelines (2003) include schools, hospitals, and daycare centers. Sensitive receptors also typically include residences. The closest sensitive receptors to the project site include a single-family residence approximately 65 feet northeast of the pipeline alignment west of Vineyard Avenue and a single-family residence approximately 200 feet west of the Noble Basin staging area. The potential for project construction to expose sensitive receptors to substantial pollutant concentrations is discussed in the following subsections. The project does not include any stationary sources of air pollutant emissions, and once construction is complete, the project would not result in a substantial increase in operational emissions as mobile emissions are already produced under existing conditions by United staff traveling to the Noble Basin. Therefore, project operation would not expose sensitive receptors to substantial pollutant concentrations and is not discussed further.

Fugitive Dust Emissions

As discussed in Threshold 3(b), the project would result in emissions of fugitive dust. However, these emissions would be temporary and would be reduced in compliance with VCAPCD Rule 55, which requires implementation of BMPs to control dust emissions during ground disturbing activities. Therefore, impacts related to exposure of sensitive receptors to substantial concentrations of criteria pollutant and fugitive dust emissions would be less than significant.

Carbon Monoxide Hotspots

Traffic-congested roadways and intersections have the potential to generate elevated localized carbon monoxide levels (i.e., carbon monoxide hotspots). In general, carbon monoxide hotspots occur in areas with poor circulation or areas with heavy traffic. Existing carbon monoxide levels in Ventura County have been historically low enough that VCAPCD monitoring stations throughout the county ceased monitoring ambient carbon monoxide concentrations in 2004 (VCAPCD 2022). Project construction would result in minor and temporary increases in traffic on Vineyard Avenue due to worker vehicle trips and delivery of heavy-duty equipment and materials. Because the project site is not located in an area with poor circulation or heavy traffic, project-related traffic would not cause or contribute to potential temporary carbon monoxide hotspots. Therefore, no impacts related to exposure of sensitive receptors to substantial concentrations of carbon monoxide would occur.

Toxic Air Contaminants

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or serious illness, or that may pose a present or potential hazard to human health. TACs generally consist of four types: organic chemicals, such as benzene, dioxins, toluene, and perchloroethylene; inorganic chemicals such as chlorine and arsenic; fibers such as asbestos; and metals such as mercury, cadmium, chromium, and nickel. The primary TAC emitted during project construction would be diesel particulate matter (DPM) generated by heavy-duty equipment and diesel-fueled delivery and haul trucks during construction activities. DPM was identified as a TAC by the CARB in 1998 and is primarily composed of particulate matter exhaust emissions (CARB 2024).

Generation of DPM from construction projects typically occurs in a single area for a short period of time. Construction of the proposed project would occur in phases over approximately six to eight months. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning a longer exposure period would result in a higher exposure level for the maximally exposed individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to the California Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 70-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project (California Office of Environmental Health Hazard Assessment 2015). Accordingly, the duration of project construction, up to eight months, is approximately one percent of the total exposure period used for health risk calculation. Current models and methodologies for conducting health-risk assessments are associated with longer-term exposure periods of nine, 30, and 70 years, which do not correlate well with the temporary and highly variable nature of construction activities, resulting in difficulties in producing accurate estimates of health risk. Therefore, health risk is discussed qualitatively below.

Maximum DPM emissions would occur during the Noble Basin earthwork and grading activities. The maximum DPM emissions associated with this phase would only occur for approximately three weeks, and these activities represent the worst-case condition for the total construction period. This three week period would represent approximately 0.09 percent of the total exposure period for health risk calculations. Therefore, project construction activities would not represent the type of long-term TAC emission sources typically subject to health risk assessments. Construction activities would also be subject to and would comply with California regulations limiting the idling of heavy-duty construction equipment to no more than five minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Compliance with the standard construction measures required by the VCAPCD would also further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. As such, impacts related to exposure of sensitive receptors to substantial TAC concentrations would be less than significant.

San Joaquin Valley Fever

San Joaquin Valley Fever (Valley Fever), formally known as *Coccidioidomycosis*, is an infectious disease caused by the fungus *Coccidioides immitis*. Valley Fever is a disease of concern in the Basin. Infection is caused by inhalation of *Coccidioides immitis* spores that have become airborne when dry, dusty soil or dirt is disturbed by natural processes, such as wind or earthquakes, or by human-induced ground-disturbing activities, such as construction, farming, or other activities (VCAPCD 2003). Substantial increases in the number of reported cases of Valley Fever tend to occur only after major ground-disturbing events such as the 1994 Northridge earthquake (VCAPCD 2003).

Under existing conditions, the population of Ventura County has been and continues to be exposed to Valley Fever from agricultural and construction activities occurring throughout the region. Project construction activities, similar to construction activities throughout Ventura County, would have the potential to release *Coccidioides immitis* spores. Project construction would be carried out in compliance with VCAPCD Rule 55 and standard construction measures in accordance with VCAPCD rules to reduce fugitive dust generation, which would minimize the spores released on site. VCAPCD does not have a recommended threshold for Valley Fever impacts but instead recommends

consideration of the following factors that may indicate a project's potential to result in significant impacts related to Valley Fever:

- Disturbance of the topsoil of undeveloped land (to a depth of about 12 inches)
- Dry, alkaline, sandy soils
- Virgin, undisturbed, non-urban areas
- Windy areas
- Archaeological resources probable or known to exist in the area (Native American midden sites)
- Special events (fairs, concerts) and motorized activities (motocross track, All Terrain Vehicle activities) on unvegetated soil (non-grass)
- Non-native population (i.e., out-of-area construction workers)

The project would require ground-disturbing activities on sandy soils; however, the project site has been previously disturbed. The Ferro Basin has been previously disturbed from quarry operations and is disced annually. The Noble Basin is also disced annually when it is not filled with water. Furthermore, previous disturbance occurred to install Vineyard Avenue and existing structures adjacent to the project site. The project would not involve special events or motorized activities on unvegetated soils. It is anticipated construction workers would be from the local or regional area and would therefore likely have previous exposure to and immunity from Valley Fever. For these reasons, construction of the project would not result in a substantial increase in entrained fungal spores that cause Valley Fever above existing background levels. With incorporation of fugitive dust reduction measures through compliance with existing VCAPCD regulations, impacts related to Valley Fever would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- d. *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

Project construction could generate odors associated with heavy-duty equipment operation and earth-moving activities. Such odors would be temporary in nature and limited to the duration of construction in the vicinity of the project site. The project contractor(s) would also be required to adhere to VCAPCD Rule 51 (Nuisance), which prohibits discharge of air contaminants or any other material from a source that would cause nuisance to any considerable number of persons or the public, including odor. Project operation would involve conveyance of water by gravity via two pipelines and would not result in the generation of odors. At the end of wet seasons, remaining standing water would be pumped out of the pipelines to avoid odors as much as feasible. Therefore, impacts related to other emissions (such as those leading to odors) adversely affecting a substantial number of people would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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4 Biological Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

- a. *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?*

Queries of the United States Fish and Wildlife (USFWS) Information for Planning and Consultation system (USFWS 2024a) and California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB; CDFW 2024a) were conducted to obtain comprehensive information regarding state and federally listed species, and other special-status species, with potential to occur in the project area. The CDFW Biogeographic Information and Observation System (CDFW 2024b) and the Ventura County 2023-2024 Locally Important Plant and Animal Lists (County of Ventura 2023) were also reviewed for additional information on existing conditions relating to biological resources within the project area.

United staff conducted a vegetation field assessment of the project site in January 2024. The observations of this field assessment are included herein, and the field assessment is provided as Appendix B. Both the Noble and Ferro Basins are regularly disturbed areas that are predominantly vegetated (primarily around the margins of the basins) with non-native plants. At the time of the field assessment, the Noble Basin was filled with water. Several bird species were observed in the basin, and inactive bird nests were identified in trees adjacent to the Noble Basin (Appendix B). The Ferro Basin is adjacent to the Santa Clara River and, at the time of the field assessment, had been recently disced; discing involves removing vegetation and disturbing surface soils to a depth of approximately six inches. United discs the Ferro Basin approximately once per year for vegetation control and to maintain a permeable surface.

Based on the database queries, three special status plant species were evaluated for their potential to occur within the project site. Near the project site, the bed of the Santa Clara River may provide suitable habitat for white rabbit-tobacco (*Pseudognaphalium leucocephalum*). However, the nearest recorded occurrence of white rabbit-tobacco is approximately 4.3 miles north of the project site, and this plant species was not identified in the project site during the field assessment (Appendix B). Therefore, white rabbit-tobacco has a low potential to occur near the project site. The remaining two special status plant species, Davidson's saltscale (*Atriplex serenana* var. *davidsonii*) and Ventura marsh milk-vetch (*Astragalus pycnostachyus* var. *lanosissimus*) are not expected to occur in the vicinity of the project site based on incompatible habitat conditions. No impact to special-status plant species would occur.

The database queries identified 17 special-status wildlife species that could occur within five miles of the project site. Of these species, five species were found to have potential to occur (CDFW 2024a). The remaining 12 species were eliminated based on the species-specific habitat requirements and the disturbed nature of the project site. Additionally, native birds have the potential to nest within the project site. Species determined to have some potential to occur within the project vicinity include:

- Least Bell's vireo (*Vireo bellii pusillus*)
- Tricolored blackbird (*Agelaius tricolor*)
- Unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*)
- Santa Ana sucker (*Catostomus santaanae*)
- Southern California steelhead (*Oncorhynchus mykiss irideus*)

The Santa Clara River may provide potentially suitable habitat for unarmored threespine stickleback, Santa Ana sucker, and Southern California steelhead. The project would not involve physical alteration or modification to the Santa Clara River; therefore, no direct impacts to these species would occur. The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, no indirect impacts to these species would occur.

The Santa Clara River in the vicinity of the project area may also provide potentially suitable nesting and foraging habitat for the least Bell's vireo and tricolored blackbird. Potential habitat for these species does not occur within the project site. As noted above, the project would not involve physical alteration or modification of the river. Therefore, no direct impacts to least Bell's vireo or tricolored blackbird would occur. Indirect impacts to these species are unlikely given the significant distance between the project site and potential habitat within the river (greater than 500 feet), and the fact that the project does not involve diverting additional water from the river beyond existing conditions.

Other migratory or other common nesting birds are protected by California Fish and Game Code (CFGF) 3503 and the Migratory Bird Treaty Act (MBTA) and have the potential to nest within the project area. The project would likely require removal of three trees in the project site, which could result in direct impacts to nesting birds. Additionally, the project could adversely affect protected nesting birds through construction noise, dust, and other human disturbances that may cause a nest to fail. Implementation of mitigation measure BIO-1 would facilitate compliance with CFGF 3503 and the MBTA.

Mitigation Measure

BIO-1 Nesting Bird Pre-Construction Survey and Avoidance

To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 7 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type as well as areas suitable for ground nesting species), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. If burrowing owls or signs of their activity are present in the project site, United shall consult with CDFW.

If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging that is not harmful to wildlife. An appropriate avoidance buffer ranging in size from 25 to 50 feet for passerines, and up to 300 feet for raptors and listed species, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been

determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.

Significance After Mitigation

Mitigation Measure BIO-1 would achieve compliance with federal and state laws through the implementation of a pre-construction nesting bird survey if construction occurs during the nesting bird season. If active nests are identified, avoidance buffers would be established to minimize impacts to nesting birds until nests are no longer active. Therefore, implementation of Mitigation Measure BIO-1 would facilitate compliance with CFGC 3503 and the MBTA, and impacts to nesting birds would be less than significant.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

- b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?*

No sensitive plant communities occur within the project site. Southern riparian scrub is located along the Santa Clara River north and south of the Ferro Basin (CDFW 2024a). However, these communities would not be directly impacted by the proposed project. As described above under Item 4(a), the proposed project would not involve alteration or modification to the Santa Clara River. The project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, the project would not have an adverse effect on any riparian habitat or other sensitive natural community, and no impact would occur.

NO IMPACT

- c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

As discussed under Items 4(a) and 4(b), the proposed project would not involve alteration or modification to the Santa Clara River. The USFWS National Wetlands Inventory (NWI) identifies the Ferro Basin as Freshwater Emergent Wetland and the Noble Basin as Freshwater Pond (USFWS 2024b). However, NWI is based on aerial desktop analysis and field verification is rare. In this case, the basins are erroneously identified as wetland features and are not state or federally jurisdictional wetland or water features. United maintains the basins on an annual basis for vegetation control and to maintain a permeable surface for groundwater recharge. Accordingly, the project would not have a substantial adverse effect on state or federally protected wetlands, and no impact would occur.

NO IMPACT

- d. *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

Wildlife corridors, or habitat linkages, are generally defined as connections between habitat patches that allow for physical and genetic exchange between otherwise isolated animal populations. Such linkages may serve a local purpose, such as between foraging and denning areas, or they may be regional in nature, allowing movement across the landscape. Some habitat linkages may serve as migration corridors, wherein animals periodically move away from an area and then subsequently return. Others may be important as dispersal corridors for young animals. A group of habitat linkages in an area can form a wildlife corridor network.

The project site is not within Essential Connectivity Areas or Natural Landscape Blocks (CDFW 2024c) and does not provide connectivity for local wildlife movement as it is regularly disturbed and surrounded by roadways and agricultural development. No regional wildlife linkages or corridors are mapped within the project area (CDFW 2024b). Within the project site, there are substantial barriers to wildlife movement, including the surrounding agricultural fields and a network of paved and dirt agricultural roads fragmenting the landscape. The Santa Clara River provides passage for wildlife movement in the surrounding region; however, the project would not physically modify the river nor modify United's existing water rights or involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, the project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. No impact would occur.

NO IMPACT

- e. *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

The project may require removal of three trees for trenchless pipeline installation. Pursuant to California Government Code 53091, the building and zoning ordinances of a county or city do not apply to the location or construction of facilities for the production, storage, or transmission of water, wastewater, or electrical energy by a local agency. Accordingly, the project is exempt from local ordinances, such as Ventura County's tree protection ordinance. The Ventura County General Plan Conservation and Open Space Element includes measures to protect sensitive biological resources (i.e., special-status species and jurisdictional waters and wetlands) and wildlife movement. As discussed above, impacts related to special-status species would be less than significant, no impact would occur on riparian or sensitive vegetation communities, no impact would occur on jurisdiction waters and the project would not interfere substantially with wildlife movement. Therefore, impacts related to conflict with applicable local policies and ordinances would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

The project site is not located in the planning area for any adopted local, regional, or state Natural Community Conservation Plans or Habitat Conservation Plans. Therefore, the project would not conflict with the provisions of any such plan, and no impact would occur.

NO IMPACT

5 Cultural Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c. Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

The following analysis is based on the Cultural Resources Assessment prepared for the project by Rincon Consultants, Inc. in May 2024. The Cultural Resources Assessment is included as Appendix C.

- a. *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

The California Environmental Quality Act (CEQA) requires a lead agency to determine whether a project may have a significant effect on historical resources (Public Resources Code [PRC] Section 21084.1). A historical resource is a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or any object, building, structure, site, area, place, record, or manuscript a lead agency determines to be historically significant (CEQA Guidelines Section 15064.5[a][1-3]).

A resource shall be considered historically significant if it:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

On April 5, 2024, Rincon conducted an in-person California Historical Resources Information System (CHRIS) records search at the South Central Coast Information Center (SCCIC) housed at California State University, Fullerton. The SCCIC is the official state repository for cultural resources records and reports for Ventura County. The purpose of the records search is to identify previous cultural resources studies and previously recorded cultural resources within the project site and a 0.5 mile radius. Rincon also reviewed the National Register of Historic Places (NRHP), the CRHR, the

California Historical Landmarks list, the Built Environment Resources Directory, and the Archaeological Determination of Eligibility list. The results of the analysis are included in Appendix C.

The CHRIS records search identified 16 cultural resources studies previously conducted within the 0.5-mile records search radius. Of these 16 studies, four include portions of the project site and two are within 200 feet of the project site. The CHRIS records search did not identify any previously recorded cultural resources within the project site, and identified one resource (the Santa Clara River Levee) within 150 feet of the Ferro Basin. The resource was previously evaluated for inclusion in the NRHP and CRHR and was recommended not eligible for both registers (Appendix C). An east-west trending segment of the levee is located approximately 150 feet northwest of a portion of the Ferro Basin that would be re-contoured. As such, the resource would not be subject to direct impacts as part of project construction. Given that the levee was previously recommended CRHR-ineligible and would not be directly impacted by project construction, the project would not cause a substantial adverse change in the significance of a historical resource. No impact would occur.

NO IMPACT

b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

PRC Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information;
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type; or
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Pursuant to PRC Section 21084.1, if it can be demonstrated that a project would cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a-b]).

A pedestrian survey of the project site was conducted on April 17, 2024. As described in Item 5(a), a CHRIS records search was also conducted. No archaeological resources were identified as a result of the field survey per CHRIS records. The background and archival research suggests the project site has low potential to contain intact archaeological deposits due to disturbances as indicated by the presence of fill material, as well as the presence of the sands and gravels (undifferentiated channel deposits) underlying the fill material. Sands and gravels are indicative of a river environment not conducive to the preservation of archaeological deposits (Appendix C). As such, the potential for encountering intact archaeological deposits during project construction is low. Although there is low potential for encountering subsurface archaeological deposits, it is always possible unknown archaeological materials are encountered during project construction. Disturbance of these resources could result in substantial adverse change in the significance of an archaeological resource and impacts could be potentially significant. Mitigation Measure CUL-1 would be required.

Mitigation Measure

CUL-1 Unanticipated Discovery of Cultural Resources

In the event archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 50 feet of the find shall halt and the construction contractor shall immediately contact United's project manager. United shall contract an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) to evaluate the resource. If the qualified archaeologist determines the resource to be prehistoric, then a Native American representative shall also be contacted to participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the CRHR and significant impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of the California Code of Regulations (CCR) Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. United shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the California Historical Resources Information System, per CCR Guidelines Section 15126.4(b)(3)(C).

Significance After Mitigation

Mitigation Measure CUL-1 would minimize potential impacts to unanticipated cultural resources by establishing appropriate procedures for evaluation and treatment of any discoveries made during construction. Therefore, implementation of Mitigation Measures CUL-1 would reduce impacts to archaeological resources to a less-than-significant level.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

- c. *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

No human remains are known to be present within the project site (Appendix C). However, the discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, California Health and Safety Code Section 7050.5 states no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately by United. If the human remains are determined to be of Native American origin, the Coroner will notify the NAHC, which will determine and notify a most likely descendant (MLD). The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance. With adherence to existing regulations, impacts to human remains would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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6 Energy

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒
b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

- a. *Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

During project construction, energy would be consumed in the form of petroleum-based fuels used to power off-road construction vehicles and equipment on the project site, and construction worker travel to and from the project site. Energy use during construction would be temporary in nature, and construction equipment used would be typical of similar-sized construction projects in the region. In addition, construction contractors would be required to comply with the provisions of California Code of Regulations Title 13 Sections 2449 and 2485, which prohibit off-road diesel vehicles and diesel-fueled commercial motor vehicles, respectively, from idling for more than five minutes and would minimize unnecessary fuel consumption. Construction equipment would be subject to the USEPA Construction Equipment Fuel Efficiency Standard, and trucks would be subject to the CARB Advanced Clean Trucks regulation, both of which would also minimize inefficient, wasteful, or unnecessary fuel consumption (USEPA 2004). These regulations would result in the efficient use of energy necessary to construct the project. Therefore, project construction would not result in potentially significant environmental effects due to the wasteful, inefficient, or unnecessary consumption of energy, and no impact would occur.

The project would not require additional operations and maintenance during dry years. During wet years, a minimal amount of additional energy would be required for daily vehicle travel between the Noble Basin and Ferro Basin. United staff currently take daily trips to the Noble Basin during wet years, so the minimal increase in trip length to travel from the Noble Basin to Ferro Basin when the basin is being used for groundwater recharge would not result in substantial additional energy use in a manner that is wasteful or unnecessary. The project would not require a power source during operation, as water would flow through the pipelines via gravity flow. Therefore, project operation would not result in a potentially significant environmental effect due to the wasteful, inefficient, or unnecessary consumption of energy. No impact would occur.

NO IMPACT

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- b. Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

United does not have specific renewable energy or energy efficiency plans applicable to the project. The County does not have energy action plans that are applicable to the project. The project involves the installation of pipelines to convey water for groundwater recharge and would not include any power sources. State regulations for energy conservation, such as the California Green Building Standards Code and California Energy Code, target energy efficiency in the development or renovation of buildings. Accordingly, these regulations would not apply to the project. Overall, no state or local plans for renewable energy or energy efficiency would apply to the project. Therefore, no impact would occur.

NO IMPACT

7 Geology and Soils

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
1. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?	☐	☐	☐	☒
2. Strong seismic ground shaking?	☐	☐	☒	☐
3. Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
4. Landslides?	☐	☐	☐	☒
b. Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☐	☒
e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

- a.1. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?*

The project site is not fully or partially intersected by an earthquake fault delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map (DOC 2021). Therefore, the proposed project would not result in the risk of loss, injury, or death involving rupture of a known earthquake fault. No impact would occur.

NO IMPACT

- a.2. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?*

Similar to all of Southern California, the project site is subject to strong ground shaking associated with active or potentially active faults within the region. Faults in proximity to the project site include the Wright Road Fault located approximately 1.5 miles east of the project site and the Ventura Fault located approximately 2.4 miles northwest of the project site (DOC 2021).

The project involves the construction of an undercrossing and installation of two reinforced concrete pipelines. The project would not include habitable structures which could put people at risk of loss, injury, or death involving strong seismic ground shaking. Design and construction of the proposed project would consider the seismic environment and would comply with applicable seismic design standards. A large seismic event, such as a fault rupture, seismic shaking, or ground failure, could result in breakage of the pipelines and/or underground leakage from the pipeline. In the event an earthquake compromises the pipelines during operation, United would conduct emergency repairs as soon as practicable.

Therefore, while the project site is located within a seismically active area and would place new infrastructure in an area that could be affected by seismic activity, impacts related to the risk of loss, injury, or death involving rupture of a known earthquake fault or strong seismic ground shaking would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- a.3. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?*

Liquefaction occurs when strong, cyclic motions during an earthquake cause water-saturated soils to lose their cohesion and take on a liquid state. Liquefied soils are unstable and can subject overlying structures to substantial damage. The project site is located in a liquefaction hazard area (DOC 2021). According to the project's Final Preliminary Design Report, up to approximately two inches of settlement could occur in the soils encountered at the project site. Soils therefore have the potential to liquefy during a seismic event, and seismically-induced liquefaction could potentially damage the proposed pipeline in the event of an earthquake, resulting in joint failure or leakage from the pipeline.

As discussed under Items 7(a.1) and 7(a.2), the project would comply with all applicable seismic design standards, including design standards aimed at reducing risk of liquefaction. In the event seismically-induced liquefaction compromises the pipelines during operation, United would conduct emergency repairs as soon as practicable. In addition, the project involves construction of water

infrastructure and would not involve placement of habitable structures within a liquefaction-prone area, thereby minimizing the potential to result in loss, injury, or death involving seismic-related ground failure due to liquefaction. As a result, impacts related to the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction, would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- a.4. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?*

The project site is located in a relatively flat area that is not within or near an earthquake-induced landslide hazard zone (DOC 2021). Therefore, the project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides. No impact would occur.

NO IMPACT

- b. Would the project result in substantial soil erosion or the loss of topsoil?*

Soil erosion or the loss of topsoil may occur when soils are disturbed but not secured or restored, such that wind or rain events may mobilize disturbed soils, resulting in their transport off the project site. The project site is relatively flat; however, construction of the proposed pipeline would require grading and open cut trenching on land that is currently undeveloped, which would involve exposing soil such that erosion and topsoil loss could occur.

Because the project disturbance area would be greater than one acre in size, United would be required to obtain coverage from the State Water Resource Control Board's (SWRCB) Construction Stormwater General Permit. The Construction Stormwater General Permit requires development and implementation of a project-specific Stormwater Pollution Prevention Plan (SWPPP). Implementation of the SWPPP would minimize the amount of sediment and other pollutants discharged in stormwater runoff from the construction site by requiring BMPs to control erosion and sedimentation. Construction BMPs would include, but not be limited to, measures designed to minimize erosion and retain sediment on site. With adherence to the requirements of the Construction Stormwater General Permit, impacts related to substantial soil erosion or loss of topsoil would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- c. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?*

As discussed in Item 7(a.4), the project site is a flat area devoid of hillsides and therefore not subject to landslides. As discussed in Item 7(a.3), the project site is within a liquefaction hazard area. Accordingly, the proposed project could be subject to unstable soils. However, the project is not anticipated to adversely affect soil stability or increase the potential for local or regional liquefaction, lateral spreading, subsidence or collapse, as excavated areas would be properly backfilled in accordance with applicable compaction requirements. The project would not include habitable structures and impacts related to landslide, lateral spreading, subsidence, liquefaction, or collapse would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- d. *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?*

Expansive soils are soils with high shrink-swell potential. The shrink-swell potential is low if the soil has a linear extensibility of less than three percent (United States Department of Agriculture [USDA] 2017). The project site is underlain by the Metz, Mocho, and Pico soil series (USDA 2024). These soils have linear extensibility ranging from 1.5 to 2.6 percent, indicating a low shrink-swell potential (USDA 2024). In addition, the project does not include construction of habitable structures. Therefore, the proposed project would not expose people to risks related to expansive soils and no impact would occur.

NO IMPACT

- e. *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?*

The proposed project does not include the use of septic tanks or alternative wastewater disposal systems. Therefore, no impact would occur.

NO IMPACT

- f. *Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?*

Paleontological resources, or fossils, are the evidence of once-living organisms preserved in rock. They include the fossilized remains of ancient plants and animals and evidence of ancient plants and animals, such as trackways, imprints, or burrows. Paleontological resources are not found in “soil;” rather, they are contained within the geologic deposits or bedrock that underlies the soil layer. Typically, fossils are over 5,000 years old (i.e., older than middle Holocene in age) and are preserved in sedimentary rocks. Fossils are often distributed in a non-continuous and unpredictable manner within some sedimentary units, and the potential for fossils to occur within sedimentary units depends on several factors. It is possible to evaluate geologic units’ potential to contain scientifically important paleontological resources, and to evaluate the potential for impacts to those resources.

The paleontological sensitivity of the geologic units underlying the project site was evaluated to assess the potential for scientifically-important paleontological resources to be encountered during construction. This evaluation included a paleontological locality search and a review of existing information and scientific literature regarding known fossils within geologic units mapped at the project site. According to the SVP (2010) classification system, geologic units can be assigned a high, low, undetermined, or no potential for containing scientifically-significant, nonrenewable paleontological resources. Following the literature review, a paleontological sensitivity classification was assigned to each geologic unit mapped within the project site. This classification is based on rock units within which vertebrate or significant invertebrate fossils may be present, as determined by previous studies. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically-sensitive geologic units.

The project site is situated in the Transverse Ranges geomorphic province, one of the eleven geomorphic provinces in California (California Geological Survey 2002). Locally, the project site is located on the Oxnard Plain, a broad coastal plain formed primarily from Pleistocene- to Holocene-aged alluvial sediments.

A fossil locality search was requested from the Natural History Museum of Los Angeles, which identified there are no known fossil localities within the project site (Bell 2024). The nearest fossil localities to the project site originate from areas mapped as the Saugus and Pico formations. In the mountains to the northwest and Las Posas Hills. However, these geologic units are found several hundred feet below the surface within the project site, so they will not be impacted by project construction.

The project is located in the *Saticoy, California* United States Geological Survey 7.5-minute topographic quadrangle(s). The geology of the region surrounding the project site was mapped by Tan et al. (2004), who identified two geologic units underlying the project site: Holocene stream terrace deposits and Holocene alluvial deposits.

Holocene stream terrace deposits underlie most of the project site, bordering the Santa Clara River, whereas Holocene alluvial deposits underlie the southeastern portions of the project site (Tan et al. 2004). Both geologic units consist of sandy clay and clayey sand. However, Holocene stream terrace deposits represent point-bar (i.e., fluvial) deposition, whereas Holocene alluvial deposits represent overbank (i.e., floodplain) deposits; accordingly, Holocene stream terrace deposits generally contain more gravel. Holocene-aged sediments are generally considered too young (i.e., less than 5,000 years old) to preserve paleontological resources (SVP 2010). Therefore, Holocene stream terrace deposits and Holocene alluvial deposits have low paleontological sensitivity.

Holocene-aged geologic units, such as Holocene stream terrace deposits, may be underlain by sediments that are old enough (i.e., more than 5,000 years old) to preserve paleontological resources. Early Holocene and Pleistocene sediments are known to preserve paleontological resources in Ventura County (Bell 2024; Jefferson 2010; Paleobiology Database 2024), and therefore have high paleontological sensitivity.

Sediments associated with the Oxnard Aquifer consist of alluvium that is early Holocene (Hansen et al. 2003) or late Pleistocene (DeVecchio et al. 2009) in age and, thus, are highly paleontologically sensitive. Based on groundwater modeling (Hansen et al. 2003), it is estimated that Oxnard Aquifer sediments are located approximately 50 feet below the surface within the project site. Ground-disturbing activities within previously undisturbed sediments with high paleontological sensitivity could encounter paleontological resources. Impacts would be significant if construction activities result in the destruction, damage, or loss of scientifically important paleontological resources and associated stratigraphic and paleontological data. The project would involve grading in the Ferro Basin and Noble Basin, excavations and horizontal drilling for the trenchless crossing of Vineyard Avenue, and open cut trench pipeline installation. These activities are anticipated to reach a maximum depth of 25 feet, so no excavations within high-sensitivity sediments (i.e., sediments associated with the Oxnard Aquifer) are anticipated. However, these age-depth estimates are not based on data from within the project site itself, and stream channel sediments may rework (i.e., erode and re-deposit) older sediments and the fossils they contain. Therefore, there is low potential for paleontological resources to be encountered and the following mitigation measure (GEO-1) is required to reduce impacts to a less-than-significant level.

Mitigation Measure

GEO-1 Unanticipated Discovery of Paleontological Resources

United shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. If a potential fossil is discovered during project construction, construction activity within 50 feet of the find shall cease until the discovery is examined by a

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Qualified Professional Paleontologist. If the find is determined to be significant, the Qualified Professional Paleontologist shall direct all mitigation measures related to paleontological resources consistent with the Society of Vertebrate Paleontology (2010) standards.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

- a. *Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?*

Climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period. Climate change is the result of numerous, cumulative sources of greenhouse gas (GHG) emissions contributing to the warming of Earth's surface. GHG emissions occur both naturally and as a result of human activities, such as fossil fuel burning, decomposition of landfill wastes, raising livestock, deforestation, and some agricultural practices. GHGs produced by human activities include carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride.

GHG emissions associated with project construction and operation were estimated using CalEEMod, with the assumptions described under Item 3(b) in Section 3, *Air Quality*. CalEEMod modeling outputs are included in Appendix A. For the purposes of this GHG analysis, it was assumed the project would have a 50-year lifetime. Construction emissions were amortized over the project's estimated 50-year lifetime because construction emissions are confined to a relatively short period of time in relation to the overall life of the project.

According to the CEQA Guidelines, projects can tier from a qualified GHG reduction plan, which allows for project-level evaluation of GHG emissions through the comparison of a project's consistency with the GHG reduction policies included in a qualified GHG reduction plan. Neither United, the County of Ventura, the VCAPCD, the California Office of Planning and Research, CARB, the California Air Pollution Control Officers Association, nor any other state or applicable regional agency has adopted a numerical significance threshold for assessing GHG emissions that is applicable to the project. Therefore, there is no qualified GHG reduction plan to tier from. In the absence of any adopted numeric threshold, the significance of the proposed project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b) by considering whether the proposed project complies with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG

emissions. Therefore, the significance of the proposed project’s potential impacts regarding GHG emissions and climate change is evaluated based on consistency with plans and polices adopted for the purposes of reducing GHG emissions and mitigating the effects of climate change. The most directly applicable adopted regulatory plans to reduce GHG emissions are the CARB 2022 Scoping Plan and the SCAG 2024 RTP/SCS.

Construction Emissions

Construction of the project would result in GHG emissions primarily associated with the use of off-road construction equipment. Table 4 shows the estimated annual GHG construction emissions associated with the project as well as the amortized construction emissions over a 50-year project life. As shown therein, project construction would generate approximately 239 metric tons of carbon dioxide equivalent¹ over the construction period. Amortized over 50 years, the project would generate approximately 5 metric tons of carbon dioxide equivalent per year. GHG emissions generated during construction would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. As demonstrated under Item (b), the project would not conflict with an applicable plan, policy, or regulation pertaining to the reduction of GHG emissions. Therefore, in the absence of a numerical threshold, impacts related to construction GHG emissions would be less than significant.

Table 4 Estimated Construction GHG Emissions

Year	Project Emissions (Metric Tons Per Year of Carbon Dioxide Equivalent)
Total Construction Emissions	239
Total Amortized over 50 Years	5

Construction would begin between July 2025 and June 2027. The analysis modeled construction to start in July 2025, which would conservatively estimate emissions since emissions factors would decrease in accordance to statewide plans to reduce air quality and GHG emissions.

See Appendix A for CalEEMod worksheets.

Operational Emissions

Operation of the project would result in negligible GHG emission associated with the minor increase in operations and maintenance trip length as workers travel from the Noble Basin to the Ferro Basin during wet years. The project would not require a power source as water would be directed through the pipelines via gravity flow. As demonstrated under Item (b), the project would not conflict with an applicable plan, policy, or regulation pertaining to the reduction of GHG emissions. Therefore, in the absence of a numerical threshold, impacts related to operational GHG emissions would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

¹ Carbon dioxide equivalent is a unit of measurement used to standardize the climate effects of various GHGs in terms of the amount of carbon dioxide that would create the same amount of global warming.

- b. Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?*

The most directly applicable adopted regulatory plans to reduce GHG emissions are the CARB 2022 Scoping Plan and the SCAG 2024 RTP/SCS. The project's consistency with these plans is discussed in the subsections below.

2022 Scoping Plan

The principal state policies for reducing GHG emissions are Assembly Bill (AB) 32 and Senate Bill (SB) 32. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020 and the goal of SB 32 is to reduce GHG emissions to 40 percent below 1990 levels by 2030. The 2022 Scoping Plan identifies plans, regulations and strategies to be implemented at the state and project level that will reduce GHG emissions consistent with state policies with a target of 85 percent below 1990 levels by 2045, which is the equivalent of carbon neutrality by 2045.

The 2022 Scoping Plan identifies priority GHG reduction strategies related to transportation electrification, building decarbonization, and VMT reduction (CARB 2022b). Because the project involves the construction of a pipeline for water conveyance, the majority of 2022 Scoping Plan priority GHG reduction strategies are inapplicable to the project. In addition, operation of the project would not require a power source and therefore would not generate GHG emissions which could conflict with the 2022 Scoping Plan. Given that the project would negligibly increase the number of operational trips beyond existing conditions, the project would not conflict with the 2022 Scoping Plan's goal of reducing GHG emissions through reductions in vehicle miles travelled (VMT) statewide. Therefore, the project would not conflict with the priority GHG reduction strategies within the 2022 Scoping Plan. No impact would occur.

Southern California Association of Governments' 2024 Regional Transportation Plan/Sustainable Communities Strategy

In April 2024, SCAG approved and adopted the updated 2024 RTP/SCS, which is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region. The plan integrates land use and transportation strategies to achieve GHG emissions reduction targets set by CARB. The 2024 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. Typically, a project would be inconsistent with the 2024 RTP/SCS if the project would exceed the population and employment growth assumptions within the 2024 RTP/SCS. As discussed under Item 3(b) in Section 3, *Air Quality*, the project would not require additional United employees and therefore would not contribute to the projected growth in employment in Ventura County. The project would also not result in population growth, as project would not include housing or substantial new water supplies which would lead to population growth. The project would not exceed the population and employment growth assumptions within the 2024 RTP/SCS. Therefore, the project would not conflict with the 2024 RTP/SCS. No impact would occur.

NO IMPACT

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9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?	☐	☐	☒	☐
d. Be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e. For a project located in an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☒	☐

- a. *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

Construction of the project would require the use of limited quantities of construction-related hazardous materials and petroleum products (e.g., diesel fuel, lubricants, and solvents). The transport, use, and storage of hazardous materials would be conducted pursuant to applicable local, state, and federal regulations regarding the handling of potentially hazardous materials, including Title 49 of the Code of Federal Regulations and Title 13 of the California Code of Regulations. Title 49 of the Code of Federal Regulations requires training of every employee who handles hazardous materials to ensure proper handling, transport, and disposal of the hazardous materials. Title 13 of the California Code of Regulations regulates transport of hazardous materials to ensure the safe transport of hazardous materials. With adherence to these regulations, project construction would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. This impact would be less than significant.

Operation of the project would include the use of equipment to maintain the Ferro Basin and Noble Basin, which would use fuels. As discussed above, the project would comply with applicable regulations regarding the use of potentially hazardous materials. The project would involve the conveyance of water via gravity flow to the Ferro Basin for groundwater recharge. Therefore, operation of the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. No impact would occur.

LESS-THAN-SIGNIFICANT IMPACT

- b. *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

The presence of hazardous materials during project construction activities could result in an accidental upset or release of hazardous materials if they are not properly stored and secured. Hazardous materials used during project construction would be disposed of off-site in accordance with all applicable laws and regulations. Additionally, the project would adhere to BMPs required by the SWPPP, including BMPs to prevent spills, leaks, and off-site discharge of construction debris and waste. In the event groundwater dewatering is required, United would discharge the groundwater back into the same basin the groundwater was extracted. Dewatered groundwater would infiltrate in the basin and no impacts to surface waters would occur. As discussed under Item 9(a), the use of fuels during project operation would also comply with applicable requirements for potentially hazardous materials. Therefore, the project would have a less than significant impact related to creating hazards through upset and accident conditions.

LESS-THAN-SIGNIFICANT IMPACT

- c. *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?*

The closest school to the project site is the Linda Vista Adventist Elementary School, located approximately 0.14 mile east of the Ferro Basin. As described under Items 9(a) and 9(b), project personnel would adhere to applicable regulations regarding the handling of potentially hazardous materials. In addition, BMPs required by the SWPPP would further prevent the potential for spills, leaks, and off-site discharge of construction debris and waste during construction. These regulatory requirements would minimize the potential for the release of hazardous materials. Therefore, the project would have a less than significant related to handling hazardous materials within 0.25-mile of an existing or proposed school.

LESS-THAN-SIGNIFICANT IMPACT

- d. *Would the project be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

The following resources were reviewed on April 4, 2024, to determine if the project site is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5:

- California Environmental Protection Agency's (CalEPA) list of active cease and desist and cleanup and abatement orders (CalEPA 2024)
- California Department of Toxic Substances Control's (DTSC) EnviroStor database (DTSC 2024)
- SWRCB's GeoTracker database (SWRCB 2024a)

Based on a review of these databases, the project site is not listed as a hazardous materials site. There are three Leaking Underground Storage Tank (LUST) Cleanup Sites and two Cleanup Program sites within 1,000 feet of the southern corner of the Ferro Basin. These sites have all been designated as "Completed-Case Closed" since 2003, meaning remedial action has been undertaken, and following the remedial action the County issued a closure letter or other formal closure decision document stating the site does not pose a substantial risk (SWRCB 2024b; SWRCB 2024c; SWRCB 2024d; SWRCB 2024e; SWRCB 2024f). The Ferro Basin has been previously disturbed from quarry operations and is disced annually. Accordingly, the Ferro Basin has been routinely disturbed such that contamination would likely have been previously encountered had it existed on site. Project activities would not result in ground disturbance at these Completed-Case Closed sites. Therefore, the project would have no impact related to hazardous material sites.

NO IMPACT

- e. *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

The closest airports to the project site are the Camarillo Airport, located approximately 4.1 miles southeast of the Ferro Basin, and the Oxnard Airport, located approximately 4.9 miles southwest of the Ferro Basin. The project site is outside of the influence areas and compatibility zones of these airports (Ventura County Transportation Commission 2024). Accordingly, the project would not result in a safety hazard or excessive noise for people residing or working in the project area due to proximity to an airport. No impact would occur.

NO IMPACT

- f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

The project site is within the planning area of the County's Emergency Operations Plan (County of Ventura 2021). As discussed in Section 17, *Transportation*, while implementation of the project would increase traffic to and from the project site during construction, the project would not require the closure of Vineyard Avenue. Vineyard Avenue is not designated as an evacuation route (County of Ventura 2021). Due to the proposed embankment's proximity to Vineyard Avenue, temporary traffic controls such as flaggers may be required. United would be required to implement traffic controls in accordance with the required Caltrans Utility Encroachment Permit. However, project construction would not substantially interfere with traffic on Vineyard Avenue. In wet years when the Ferro Basin is being utilized for groundwater recharge, daily trips would be required to the Ferro Basin; United staff currently take daily trips to the Noble Basin during wet years, so the project would result in a minor increase in operations and maintenance activities as workers travel from the Noble Basin to the Ferro Basin. However, this would not require road closures or result in substantial interferences with implementation of the Emergency Operations Plan. Accordingly, the project would have a less than significant impact related to the impairment or interference with an adopted emergency response plan or emergency evacuation plan.

LESS-THAN-SIGNIFICANT IMPACT

- g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?*

As discussed in Section 20, *Wildfire*, the project site is not within a fire hazard severity zone, but is located approximately 1.2 miles southwest of lands designated as moderate, high, and very high fire hazard severity zones within a state responsibility area (California Department of Forestry and Fire Protection [CAL FIRE] 2024). The project site is surrounded by existing agricultural and agricultural commercial land uses, residences, and roadways and is not located proximate to undeveloped wildland areas. In addition, the project consists of water conveyance infrastructure and would not include habitable structures. Construction personnel would adhere to the PRC to minimize fire risk. These regulations include PRC Section 4442 which requires earth-moving and portable construction equipment with internal combustion engines to use spark arrestors when operating on any forest-covered, brush-covered, or grass-covered land. Therefore, impacts related to exposure of people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

10 Hydrology and Water Quality

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) Result in substantial erosion or siltation on- or off-site;	☐	☐	☐	☒
(ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;	☐	☐	☐	☒
(iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
(iv) Impede or redirect flood flows?	☐	☐	☐	☒
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

- a. *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

Construction

The project would involve excavation, grading, and other construction activities which could adversely impact water quality due to increased erosion and sedimentation resulting from exposed soils and the generation of pollutants such as trash, construction materials, and equipment fluids. The SWRCB requires projects that would disturb more than one acre during construction activities to obtain coverage under the *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities*, Order No. 2022-0057-DWQ, National Pollutant Discharge Elimination System (NPDES) No. CAS000002 (Construction Stormwater General Permit). The project would disturb more than one acre and therefore United must obtain coverage under the Construction Stormwater General Permit prior to the start of construction. Obtaining coverage from the Construction Stormwater General Permit requires preparation and implementation of a SWPPP which includes project-specific erosion and sediment control BMPs to control erosion, sediment release, and otherwise reduce the potential for discharge of pollutants from construction into stormwater. Typical BMPs include, but are not limited to, covering stockpiled soils, installation of silt fences and erosion control blankets, and proper handling and disposal of wastes. In addition, the Construction Stormwater General Permit requires implementation of BMPs such as vehicle maintenance and proper storage of construction materials to reduce the potential for leaks and spills.

If groundwater conditions approach historical high levels during project construction, it is possible groundwater could be encountered and construction activities could require groundwater dewatering. In the event groundwater dewatering is required, United would discharge the groundwater back into the same basin the groundwater was extracted from. No dewatered groundwater would be discharged into a surface water body or municipal stormwater system. Because dewatered groundwater would be discharged in a different area of the same groundwater basin it was extracted from, dewatered groundwater would infiltrate and not reach surface waters. Accordingly, no impacts to surface water quality would occur.

Compliance with the requirements of the Construction Stormwater General Permit, including implementation of a SWPPP and associated BMPs, would minimize the project's potential to degrade surface or groundwater quality. This impact would be less than significant.

Operation

The project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Project operation would negligibly increase the amount of impervious surfaces on site and would not increase discharge of stormwater which could adversely affect water quality. The project would convey water from the Noble Basin to the Ferro Basin via gravity flow for groundwater recharge. Because the Noble Basin is downstream of other United recharge basins, most debris and trash is removed from conveyed water by the time it is conveyed to the Noble Basin. United staff would periodically clean any remaining debris from the metal grating and would pump out remaining standing water at the end of wet seasons to avoid debris from accumulating and prevent stagnant water. With routine maintenance of the project to minimize trash and debris at the project site, project operation would not substantially degrade surface or groundwater quality. This impact would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- b. *Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

The project site overlies the Santa Clara River Valley-Oxnard subbasin, which is designated as a high-priority groundwater basin by the California Department of Water Resources (DWR; DWR 2024). The groundwater basin is under the management of the Fox Canyon Groundwater Management Agency (FCGMA; FCGMA 2019). As described in the Initial Study Section 7, *Description of Project*, the purpose of the project is to facilitate groundwater recharge in the subbasin. The project would allow United to provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. Accordingly, no impacts related to groundwater supplies, groundwater recharge, and sustainable groundwater management would occur.

NO IMPACT

- c.(i) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site?*

The project would not alter the course of a stream or river or otherwise alter the existing drainage pattern of the site or area. The project also would not introduce substantial impervious surfaces. Therefore, the project would not alter existing drainage patterns in a manner which would result in substantial erosion or siltation on- or off-site. No impact would occur.

NO IMPACT

- c.(ii) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?*

The project would not alter the course of a stream or river or add substantial impervious surfaces and therefore would not substantially increase the rate or amount of surface runoff compared to existing conditions. Accordingly, the project would have no impact related to on- or off-site flooding.

NO IMPACT

- c.(iii) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?*

The project would not alter the course of a stream or river or add substantial impervious surfaces. The project would convey stormwater from the Noble Basin to the Ferro Basin for groundwater recharge and would not introduce stormwater to existing or planned drainage systems. The project would include metal grating that would prevent debris from entering the Ferro Basin. With routine maintenance of the project to minimize trash and debris at the project site, the project would not provide substantial additional sources of polluted runoff. This impact would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- c.(iv) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows?*

According to the Federal Emergency Management Agency (FEMA), the project site is located within Zone X, which is an area outside of a flood hazard zone (FEMA 2024). Although the Ferro Basin is adjacent to the Santa Clara River, an existing levee protects the Ferro Basin from flooding and the project site is not subject to flood flows (FEMA 2024). The project would not alter the course of a stream or river or add substantial impervious surfaces and therefore would not alter the existing flooding potential at the site. Therefore, the project would not substantially alter the existing drainage pattern of the site or area in a manner which would impede or redirect flood flows. No impact would occur.

NO IMPACT

- d. In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?*

As described in Item 10(c.iv), the project site is not located in a flood hazard area. The project site is approximately 6.2 miles east of the Pacific Ocean. According to the DOC, the project site is located outside of a tsunami hazard area (DOC 2024c). The project site is also not proximate to large bodies of water which could put the project site at risk due to seiche. Therefore, the project would not risk release of pollutants due to inundation in flood hazard, tsunami, or seiche zones. No impact would occur.

NO IMPACT

- e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

The Water Quality Control Plan for the Los Angeles Region Basin is the water quality control plan applicable to the project site. This plan defines beneficial uses, sets forth water quality objectives, and establishes programs to manage the quality of surface water and groundwater and achieve those water quality objectives for protection of beneficial uses (Los Angeles Regional Water Quality Control Board 2023). As stated in Item 10(a), project construction would be required to obtain coverage under the Construction Stormwater General Permit which requires preparation and implementation of a SWPPP to control erosion, sediment release, and otherwise reduce the potential for discharge of pollutants from construction into stormwater. Compliance with the Construction Stormwater General Permit would ensure project construction would not impair beneficial uses of surface water and groundwater identified in the Water Quality Control Plan for the Los Angeles Region Basin. Operation of the project would utilize site controls and housekeeping to prevent debris and pollutants from entering the Ferro Basin. Therefore, the project would not conflict with or obstruct implementation of a water quality control plan.

As described in Item 10(b), the project site overlies the Santa Clara River Valley-Oxnard subbasin which is managed by FCGMA. FCGMA has implemented a Groundwater Sustainability Plan for the subbasin intended to guide sustainable management of the subbasin and prevent substantial groundwater overdraft, facilitate groundwater recharge, and mitigate seawater intrusion (FCGMA 2019). The purpose of the project is to facilitate groundwater recharge in the subbasin. The project would allow United to provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. The project would therefore assist FCGMA to sustainably manage the subbasin.

Additionally, the project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, the project would not conflict with or obstruct implementation of a sustainable groundwater management plan.

For the reasons described above, no impact would occur.

NO IMPACT

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11 Land Use and Planning

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Physically divide an established community?	☐	☐	☐	☒
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

a. Would the project physically divide an established community?

The project would include installation of an undercrossing and two concrete pipelines. Project construction would not require the closure of Vineyard Avenue. The project would not include any structures, such as new roads, which could potentially physically divide an established community. Therefore, no impact would occur.

NO IMPACT

b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

The project site is located in unincorporated Ventura County. Pursuant to California Government Code 53091, the building and zoning ordinances of a county or city do not apply to the location or construction of facilities for the production, storage, or transmission of water, wastewater, or electrical energy by a local agency. Therefore, the project is only evaluated for consistency with the Ventura County 2040 General Plan.

The 2040 General Plan identifies policies to provide a sustainable water supply and support groundwater recharge. The project's potential consistency with applicable policies is described in Table 5. As shown therein, the project would actively support 2040 General Plan policies related to water supply, groundwater storage, water quality protection, and groundwater recharge.

Accordingly, the project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. No impact would occur.

NO IMPACT

Table 5 2040 General Plan Consistency

General Plan Goal or Policy	Proposed Project Consistency
WR-1.1 Sustainable Water Supply. The County should encourage water suppliers, groundwater management agencies, and groundwater sustainability agencies to inventory and monitor the quantity and quality of the county’s water resources, and to identify and implement measures to ensure a sustainable water supply to serve all existing and future residents, businesses, agriculture, government, and the environment.	Potentially Consistent. The project would enable United to provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year which would promote sustainable groundwater management and groundwater supply.
WR-1.9 Groundwater Basin Use for Water Storage. Where technically feasible, the County shall support the use of groundwater basins for water storage.	Potentially Consistent. The project’s purpose is to utilize the Ferro Basin for groundwater recharge and provide additional groundwater recharge capacity.
WR-2.2 Water Quality Protection for Discretionary Development. The County shall evaluate the potential for discretionary development to cause deposition and discharge of sediment, debris, waste, and other contaminants into surface runoff, drainage systems, surface water bodies, and groundwater. In addition, the County shall evaluate the potential for discretionary development to limit or otherwise impair later reuse or reclamation of wastewater or stormwater. The County shall require discretionary development to minimize potential deposition and discharge through point source controls, storm water treatment, runoff reduction measures, best management practices, and low impact development.	Potentially Consistent. Construction of the project would comply with SWRCB and RWQCB permitting requirements to reduce potential impacts to water quality. Operation of the project would not generate stormwater pollutants.
WR-4.2 Important Groundwater Recharge Area Protection. In areas identified as important recharge areas by the County or the applicable Groundwater Sustainability Agency, the County shall condition discretionary development to limit impervious surfaces where feasible and shall require mitigation in cases where there is the potential for discharge of harmful pollutants within important groundwater recharge areas.	Potentially Consistent. The project would not introduce substantial impervious surfaces as the pipelines would be installed via an undercrossing. The project would provide additional groundwater recharge capacity.
WR-4.3 Groundwater Recharge Projects. The County shall support groundwater recharge and multi-benefit projects consistent with the Sustainable Groundwater Management Act and the Integrated Regional Water Management Plan to ensure the long-term sustainability of groundwater.	Potentially Consistent. The project is a groundwater recharge project that would provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year.
Source: County of Ventura 2020	

12 Mineral Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

- a. *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

According to the DOC's *Special Report 253 - Mineral Land Classification: Portland Cement Concrete Aggregate in the Western Ventura County and Simi Production-Consumption Regions*, the project site is designated as a Mineral Resources Zone-2 area, indicating the presence of construction aggregate resources (Marquis 2022).

The project would not result in the loss of availability of aggregate resources as the proposed undercrossing and pipelines would primarily be installed within the public right-of-way utilized as an existing roadway. The Ferro Basin was previously used as a quarry to extract aggregate resources prior to its acquisition by United. Accordingly, aggregate resources have been previously depleted from the Ferro Basin, and the use of the Ferro Basin for groundwater recharge would not result in substantial losses of aggregate resources. Furthermore, the project would not include habitable buildings or other uses that would prohibit the extraction of aggregate resources in the area. Therefore, although the project is located in a Mineral Resources Zone-2 area, no impacts related to the loss of availability of a known mineral resource that would be of value to the region and the residents of the state would occur.

NO IMPACT

- b. Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?*

The project site is located within a Mineral Resources Protection overlay zone designated by the County. As stated in Item 12(a), the Ferro Basin was previously used as a quarry to extract aggregate resources; however, similar to the rest of the project site, the Ferro Basin is proposed for use as spreading grounds to percolate water and recharge groundwater supplies. Therefore, under existing conditions, the Ferro Basin is not considered a mineral resource recovery site. The project would not require other quarries or mineral resource recovery sites to cease extraction activities. The project would not include habitable buildings or other structures which would result in the loss of a mineral resource recovery site. Therefore, no impacts related to the loss of availability of a locally important mineral resource recovery site would occur.

NO IMPACT

13 Noise

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project result in:				
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b. Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

- a. *Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

Noise levels are commonly measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound pressure levels so that they are consistent with the human hearing response. Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in the noise level as the distance from the source increases. The manner by which noise reduces with distance depends on factors such as the type of sources (e.g., point or line), the path the sound will travel, site conditions, and obstructions.

Noise levels from a point source (e.g., construction, industrial machinery, air conditioning units) typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance. Noise from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013). Most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors have been developed. The noise descriptors used for this study are the equivalent noise level (L_{eq}), and the community noise equivalent level (CNEL; may also be symbolized as L_{den}).

L_{eq} is one of the most frequently used noise metrics; it considers both duration and sound power level. The L_{eq} is defined as the single steady-state A-weighted sound level equal to the average sound energy over a time period. When no time period is specified, a 1-hour period is assumed. The L_{max} is the highest noise level within the sampling period, and the L_{min} is the lowest noise level within the measuring period. Normal conversational levels are in the 60 to 65-dBA L_{eq} range; ambient noise levels greater than 65 dBA L_{eq} can interrupt conversations (Federal Transit Administration [FTA] 2018).

The primary existing noise sources in the vicinity of the project site include vehicular traffic on Vineyard Avenue and agro-industrial development in the area. The closest sensitive receivers to the project site include a single-family residence approximately 65 feet northeast of the pipeline alignment west of East Vineyard Avenue and a single-family residence approximately 200 feet west of Noble Basin staging area. The closest school, Linda Vista Adventist Elementary School, is located approximately 1,500 feet from the center of Ferro Basin grading activities and 2,400 feet from pipeline construction and Noble Basin staging area.

United has not adopted thresholds for construction noise. Pursuant to California Government Code 53091, the building and zoning ordinances of a county or city do not apply to the location or construction of facilities for the production, storage, or transmission of water, wastewater, or electrical energy by a local agency. Accordingly, the project is exempt from local noise thresholds. The FTA provides reasonable criteria for assessing construction noise impacts based on the potential for adverse community reaction in their *Transit and Noise Vibration Impact Assessment Manual* (FTA 2018). For residential uses, the daytime noise threshold is 80 dBA L_{eq} for an 8-hour period, and the nighttime noise threshold is 70 dBA L_{eq} for an 8-hour period. Therefore, in lieu of a United-specific threshold, the FTA thresholds are used to determine the significance of project construction noise.

Daytime Construction Activities

Project construction activities would generate temporary noise, exposing sensitive receivers to increased noise levels. Project construction noise would be generated by heavy-duty diesel construction equipment used for the phases described under Table 1. Each phase of construction has a specific equipment mix and associated noise characteristics, depending on the equipment used during that phase. Construction noise would be short-term and temporary at any given location given construction activities would take place over a wide area over the course of the six- to eight-month construction schedule.

Reference noise levels for construction noise were estimated using the FHWA Roadway Construction Noise Model (RCNM) (FHWA 2006). RCNM predicts construction noise levels for a variety of construction operations based on empirical data and the application of acoustical propagation formulas. A distance attenuation rate of 7.5 dBA per doubling of distance was then applied as the surfaces between construction and the nearest sensitive receivers are predominantly agricultural fields.

The nearest sensitive receivers from construction activities were determined to be housing on agricultural lots, which includes 5625 Vineyard Avenue, 5636 Vineyard Avenue, and 5721 Vineyard Avenue. Noise levels from each construction activity to the nearest sensitive receivers are shown in Table 6. As shown in Table 6, construction noise levels would not exceed the FTA's daytime construction noise threshold of 80 dBA L_{eq} (8-hour), and daytime construction noise impacts would be less than significant.

Table 6 Construction Noise Levels

Construction Phase	Equipment	Nearest Sensitive Receiver	Distance to Nearest Sensitive Receiver (feet) ¹	Construction Noise Level (dBA Leq) ²	Exceed Threshold of 80 dBA ³
Construction Mobilization and Procurement	Dozer (1)	5721 East Vineyard Avenue	100	72	No
Trenchless Pipeline Installation	Drill Rig (1)	5721 East Vineyard Avenue	100	66	No
Open Cut Trench Pipeline Installation	Crane (2), Excavator (2)	5721 East Vineyard Avenue	100	74	No
Grading and Contouring (Noble Basin)	Dozer (1), Scraper (1), Loader (1)	5636 East Vineyard Avenue	250	69	No
Construction of Gates	Crane (1), Forklift (1), Generator (1), Loader (3)	5721 East Vineyard Avenue	100	72	No
Construction of Grating	Crane (1), Forklift (3), Generator (1), Loader (3), Welder (1)	5721 East Vineyard Avenue	100	75	No
Start of Project Operation	Crane (2), Drill Rig (1), Excavator (2)	5721 East Vineyard Avenue	100	76	No
Potential Ferro Basin Grading and Contouring	Scraper (5)	5721 East Vineyard Avenue	250	73	No

dBA Leq = A-weighted decibels time-weighted equivalent.

¹ Distance assumes from the center of overall construction activity for each activity.

² Distance attenuation assumes a soft surface attenuation, which results in a -7.5 dBA reduction per doubling of distance, due to the predominantly agricultural surroundings between the construction areas and sensitive receivers.

³ Threshold is 80 dBA Leq (8-hour) .

See Appendix D for RCNM outputs.

Nighttime Construction Activities

Nighttime construction would be required for trenchless pipeline installation, which may use an auger drill rig. This construction would occur at a distance of approximately 100 feet from the nearest sensitive receiver to the north at 5721 East Vineyard Avenue and 250 feet from the next closest sensitive receiver to the south at 5625 Vineyard Avenue. Noise levels from an auger drill rig at these distances would be 71 dBA Leq (8-hour) at 5721 East Vineyard Avenue and 63 dBA Leq (8-hour) at 5625 Vineyard Avenue. Therefore, nighttime construction noise levels may exceed the FTA's nighttime construction noise threshold of 70 dBA Leq (8-hour) at 5721 East Vineyard Avenue, and impacts would be potentially significant. Mitigation Measure NOI-1 would be required.

Operation

The proposed pipeline infrastructure would require periodic maintenance, including occasional clearing of debris from the metal grates, vegetation mowing in the basins, and pumping of standing water out of pipelines at the end of wet seasons. In dry years, the project would not result in an increase in operations and maintenance trips compared to existing conditions. In wet years when the Ferro Basin is utilized for groundwater recharge, daily trips would be required to the Ferro Basin; United staff currently take daily trips to the Noble Basin during wet years, so the project

would result in a minor increase in operations and maintenance trip length as workers travel from the Noble Basin to the Ferro Basin. However, this minor increase would not result in a substantial increase in noise levels and would be similar noise to that occurs within the agricultural area that the basins are located within. In addition, water would flow through the pipelines via gravity flow, and the project would not require a power source during operation. Therefore, operational noise levels from the project would be less than significant.

Mitigation Measure

NOI-1 Nighttime Construction Noise Reduction Measures

For construction occurring between the hours of 10:00 p.m. and 7:00 a.m., United or its construction contractor shall reduce construction noise levels so as not to exceed a nighttime noise level of 70 dBA L_{eq} (8-hour) at nearby residences. Strategies to achieve this may include, but are not limited to, the following noise reduction measures:

- Drill rigs will be controlled with the best available noise control technology. For example, drilling noise control may be achieved by shrouding the drill rig, shielding drilling noise with temporary noise barriers, and/or by reducing exhaust noise with a sound-absorbing muffler.
- Material hauling and deliveries shall be coordinated by the construction contractor to reduce the potential for nighttime truck trips.
- Where feasible, hydraulic equipment shall be used instead of pneumatic impact tools, and electric powered equipment shall be used instead of diesel-powered equipment.
- At least 21 days prior to the start of construction activities, residents within 500 feet of the proposed night work shall be notified of the planned construction activities. The written notification shall include a brief description of the project, the activities that would occur, the hours when construction would occur, and the construction period's overall duration. The notification shall include the telephone numbers of United's and contractor's authorized representatives that are assigned to respond in the event of a noise complaint.
- If a construction noise complaint(s) is registered, the contractor shall retain a qualified noise consultant to conduct noise measurements at the properties that registered the complaint. The noise measurements shall be conducted for a minimum of eight hours. The consultant shall prepare a letter report for United summarizing the measurement results and potential measures to reduce nighttime noise to 70 dBA L_{eq} (8-hour) at residences.

Significance After Mitigation

Implementation of Mitigation Measure NOI-1 would reduce drill rig noise levels through best available noise control technology. Generally, blocking the line of sight between a noise source and a receiver will provide at least a 5-dBA reduction in source noise levels at the receiver (FHWA 2011). With implementation of Mitigation Measure NOI-1, nighttime construction noise levels would be reduced to approximately 66 dBA L_{eq} (8-hour) at the nearest residence and would not exceed the FTA's nighttime construction noise threshold of 70 dBA L_{eq} (8-hour). Therefore, this impact would be less than significant with mitigation.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

- b. *Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent buildings or structures and vibration energy may propagate through the buildings or structures. The primary concern from vibration is that it can be intrusive and annoying to building occupants at vibration-sensitive land uses and may cause structural damage. Typically, ground-borne vibration generated by manmade activities attenuates rapidly as distance from the source of the vibration increases. Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared (RMS) vibration velocity. The PPV and RMS velocity are normally described in inches per second (in/sec). PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used as it corresponds to the stresses that are experienced by buildings (Caltrans 2020).

Potential vibration impacts related to project construction and operation are discussed below.

Construction

Project construction may require operation of vibratory equipment such as bulldozers, and this equipment may be used in proximity to the nearest building, which is a residential building located approximately 65 feet northeast of the project site. A bulldozer creates a vibration level of 0.089 in/sec PPV at a distance of 25 feet (Caltrans 2020). This would attenuate to 0.042 in/sec PPV at a distance of 50 feet. This would not exceed Caltrans' construction vibration threshold for residential building damage of 0.2 in/sec PPV. Therefore, construction vibration impacts would be less than significant.

Operation

The proposed project consists of an underground pipeline and maintenance activities in the Noble Basin and Ferro Basin. These activities would not be completed with equipment that would result in substantial vibration levels. Therefore, operational vibration impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- c. *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

The nearest airports to the project site are the Camarillo Airport, located approximately 4.1 miles southeast of the Ferro Basin, and the Oxnard Airport, located approximately 4.9 miles southwest of the Ferro Basin. The project site is outside of the influence areas and compatibility zones of these airports (Ventura County Transportation Commission 2024). Given the distance of the project site from the airport, the project would not expose people residing or working in the project area to excessive noise levels associated with airport operations. No impact would occur.

NO IMPACT

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14 Population and Housing

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	☐	☐	☐	☒
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

- a. *Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?*
- b. *Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not include housing or other infrastructure that would directly lead to population growth. Given the small-scale nature of project construction activities, construction workers would be drawn from the existing, regional workforce and would not indirectly result in the relocation of people to Ventura County. While the project would result in a minor increase in operations and maintenance trips to the Noble Basin and Ferro Basin during wet years, no employment increases would occur due to these trips. Accordingly, the project would not directly result in population growth. The project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations, and therefore would not indirectly result in population growth. No existing people or housing are located on the project site; as such, the project would also not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. Accordingly, no impacts related to population and housing would occur.

NO IMPACT

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15 Public Services

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
1 Fire protection?	☐	☐	☐	☒
2 Police protection?	☐	☐	☐	☒
3 Schools?	☐	☐	☐	☒
4 Parks?	☐	☐	☐	☒
5 Other public facilities?	☐	☐	☐	☒

- a.1. *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities, or the need for new or physically altered fire protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?*
- a.2. *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities, or the need for new or physically altered police protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?*
- a.3. *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered schools, or the need for new or physically altered schools, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives?*

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- a.4. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered parks, or the need for new or physically altered parks, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives?*
- a.5. Would the project result in substantial adverse physical impacts associated with the provision of other new or physically altered public facilities, or the need for other new or physically altered public facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?*

As described in Section 14, *Population and Housing*, the project does not include development of structures or infrastructure that would directly or indirectly increase the population in Ventura County. As an undercrossing and pipelines, the project would not include components that would place additional demands on fire or police protection services. Therefore, the project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection, police protection, schools, parks, or other public facilities. No impact would occur.

NO IMPACT

16 Recreation

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

- a. *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*
- b. *Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?*

As described in Section 14, *Population and Housing*, the project does not include development of structures or infrastructure that would directly or indirectly increase the population in Ventura County. Therefore, the project would not increase the population served by local recreation facilities or otherwise result in increased demand for or degradation of those facilities. As such, the project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The project also does not include recreational facilities or require the construction or expansion of recreational facilities. No impact related to recreation would occur.

NO IMPACT

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17 Transportation

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	■	☐
b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	■	☐
c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?	☐	☐	■	☐
d. Result in inadequate emergency access?	☐	☐	■	☐

- a. *Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?*

Regional and local plans and policies addressing the circulation system include the Ventura County General Plan Circulation, Transportation and Mobility Element; the SCAG 2024 RTP/SCS; and Ventura County Comprehensive Transportation Plan Update (County of Ventura 2020; SCAG 2024; Ventura County Transportation Commission 2023). Access to the project site would be provided by Vineyard Avenue. No transit stops, paved sidewalks, or bicycle facilities are located along the segment of Vineyard Avenue adjacent to the project site. Construction traffic would be temporary, lasting approximately six to eight months.

The proposed pipelines would be installed via trenchless methods underneath Vineyard Avenue. Project construction would not require closure of Vineyard Avenue because the entry and exit pits would be located outside of the Vineyard Avenue right-of-way. Due to the proposed embankment's proximity to Vineyard Avenue, temporary traffic controls such as flaggers may be required. United would be required to implement traffic controls in accordance with the required Caltrans Utility Encroachment Permit. Project construction would not substantially interfere with traffic on Vineyard Avenue.

In wet years when the Ferro Basin is utilized for groundwater recharge, daily trips would be required to the Ferro Basin; United staff currently take daily trips to the Noble Basin during wet years, so the project would result in a minor increase in operations and maintenance activities as workers travel from the Noble Basin to the Ferro Basin. This increase would not require road closures or otherwise substantially impact transit, roadway, bicycle, or pedestrian facilities. Therefore, impacts related to potentially conflicts with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- b. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

CEQA Guidelines Section 15064.3(b) identifies criteria for evaluating transportation impacts. Specifically, the guidelines state VMT exceeding an applicable threshold of significance may indicate a significant impact. According to Section 15064.3(b)(3) of the CEQA Guidelines, a lead agency may include a qualitative analysis of operational and construction traffic if existing models or methods are not available to estimate the VMT for the project being considered. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. United has not adopted VMT thresholds.

A VMT calculation is typically conducted on a daily or annual basis, for long-range planning purposes. As discussed in Item 17(a), construction of the proposed project would temporarily increase vehicle trips due to the transport of construction workers, vehicles, and equipment to and from the project site. Increases in VMT from construction would be short-term, minimal, and temporary. While the project would result in a minor increase in additional operations and maintenance activities at the Ferro Basin during wet years, these additional operations would not increase vehicle trips or generate substantial VMT compared to existing conditions because workers already visit the Noble basin daily during wet years. Therefore, impacts related to conflict or inconsistency with CEQA Guidelines Section 15064.3(b) would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- c. Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?*

The project would not involve the construction of new roads or reconfiguration of any roadways or intersections that could result in a substantial increase in traffic hazards. During construction, staging and worker parking would occur in designated areas in the project alignment outside of Vineyard Avenue. No road closures would be required as a result of the project. Upon the completion of construction, the pipeline would be located underground and thus would not substantially increase traffic hazards. Therefore, impacts related to substantially increasing hazards due to a geometric design feature or incompatible use would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- d. Would the project result in inadequate emergency access?*

During construction, the project would not require the closure of Vineyard Avenue and therefore would allow emergency vehicles to access facilities adjacent to Vineyard Avenue. Due to the proposed embankment's proximity to Vineyard Avenue, temporary traffic controls such as flaggers may be required. United would be required to implement traffic controls in accordance with the required Caltrans Utility Encroachment Permit which would facilitate traffic management for emergency vehicles. With adherence to regulatory requirements, project construction would have a less than significant impact on emergency access.

Operation of the project would result in a minor increase in vehicle trips compared to existing conditions, as United staff visits the Noble basin daily during wet years and would subsequently visit the Ferro Basin in the same trip. Accordingly, project operation would not result in substantial vehicle travel which could impede emergency access. Therefore, project operation would not result in inadequate emergency access, and no impact would occur.

LESS-THAN-SIGNIFICANT IMPACT

18 Tribal Cultural Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in a Public Resources Code Section 21074 as either a site, feature, place, or cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?	☐	☐	☐	☒
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☐	☒
a. <i>Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code Section 21074 that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?</i> b. <i>Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code 21074 that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1?</i>				
On July 1, 2015, Assembly Bill 52 (AB 52) was enacted, expanding CEQA by defining a new resource category, "tribal cultural resources." AB 52 states, "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment" (PRC Section 21084.2). It further states the lead agency				

shall establish measures to avoid impacts altering the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3).

PRC Sections 21074 (a)(1)(A-B) define tribal cultural resources as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe” and are:

1. Listed or eligible for listing in the CRHR or in a local register of historical resources as defined in PRC Section 5020.1(k); or
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 also establishes a formal consultation process for California tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified or adopted. Under AB 52, lead agencies are required to “begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.” Native American tribes to be included in the process are those having requested notice of projects proposed in the jurisdiction of the lead agency.

Rincon contacted the Native American Heritage Commission (NAHC) on March 15, 2024, to request a search of the Sacred Lands File (SLF) as well as an Assembly Bill 52 (AB 52) specific contact list of Native Americans culturally affiliated with the project site vicinity. On March 25, 2024, the NAHC responded to the AB 52 contacts and SLF request, stating the results of the SLF search were negative. On April 25, 2024 United distributed AB 52 consultation letters for the project, including project information, a map, and United contact information to the following Native American tribes:

- Barbareño/Ventureño Band of Mission Indians
- Chumash Council of Bakersfield
- Coastal Band of the Chumash Nation
- Gabrieleño/Tongva San Gabriel Band of Mission Indians
- Gabrieliño/Tongva Nation
- Gabrieliño-Tongva Tribe
- Northern Chumash Tribal Council
- Santa Ynez Band of Chumash Indians

Pursuant to AB 52, Native American tribes have 30 days to respond and request further project information and formal consultation. On May 8, 2024, the Northern Chumash Tribal Council responded and stated they shall defer to more proximal tribal groups. On June 10, 2024, the Santa Ynez Band of Chumash Indians responded and stated they request no further consultation on the project. None of the other contacted tribes responded to the consultation letters, and the consultation period ended on May 28, 2024. Accordingly, AB 52 consultation is complete for the project.

No tribal cultural resources listed or eligible for listing in the CRHR or in a local register of historical resources were identified within the project site. In addition, no tribal cultural resources were identified within or near the project site that have been determined by United (the lead agency) to be significant. Therefore, the project would not cause a substantial adverse change in the

significance of a tribal cultural resource as defined in PRC Section 21074 that is listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in PRC Section 5020.1(k) or that is a resource determined by United (the lead agency), in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). No impact would occur.

NO IMPACT

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19 Utilities and Service Systems

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Would the project:				
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☐	☒
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒
c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

- a. *Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

Water

The project itself consists of water conveyance infrastructure to facilitate groundwater recharge. The environmental impacts of the project have been evaluated throughout this document. The project would not result in growth requiring additional water infrastructure or water supply. Therefore, the project would not require or result in the relocation or construction of new or expanded water facilities. No impact would occur.

Wastewater

During construction, wastewater from construction personnel would be collected via portable facilities and would not require installation of wastewater infrastructure. This wastewater would likely be disposed of at an existing wastewater treatment facility, and because wastewater generated during construction would be minimal and short-term, it would not exceed the capacity of existing wastewater facilities. The project would not require permanent on-site personnel and does not include installation of restroom facilities. Therefore, the project would not result in the construction or relocation of additional new or expanded wastewater facilities. No impacts related to construction of new or expanded wastewater treatment would occur.

Stormwater Drainage

The project would not introduce impervious surfaces as the pipelines and associated infrastructure would be installed via an undercrossing at Vineyard Avenue. Therefore, the project would not increase runoff and would not necessitate additional stormwater drainage infrastructure at the project site. No new or expanded stormwater drainage facilities would be required, and no impact would occur.

Electric Power

No power source would be required for the project because the pipelines would convey water from the Noble Basin to the Ferro Basin via gravity flow. Therefore, the project would not require new or expanded electric power facilities. No impact would occur.

Natural Gas

No power source would be required for the project because the pipelines would convey water from the Noble Basin to the Ferro Basin via gravity flow. Therefore, the project would not require connections to natural gas facilities and would not require new or expanded natural gas facilities. No impact would occur.

Telecommunications

The project would not require any connection to telecommunication facilities. Therefore, the project would not require new or expanded telecommunication facilities. No impact would occur.

NO IMPACT

- b. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

The purpose of the project is to facilitate groundwater recharge in the subbasin. The project would allow United to provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year, which would result in beneficial impacts related to groundwater supplies. Small quantities of water would be required during construction for dust suppression activities. This water use would be temporary and minimal and would ultimately be offset by United's increased groundwater recharge capacity that would occur following completion of the project. The project would not include habitable buildings or other structures requiring increased long-term water demand. Therefore, no impacts related to water supply would occur.

NO IMPACT

- c. *Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

During construction, wastewater from construction personnel would be collected via portable facilities and would not require installation or expansion of wastewater infrastructure. In operation, the project would not require permanent on-site personnel and does not include installation of restroom facilities. No impact would occur.

NO IMPACT

- d. *Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*
- e. *Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?*

As described in Initial Study Section 7, *Project Description*, no soil export from the project site would occur during construction. Construction would not include paving, demolition, or other activities and would generate minimal quantities construction and demolition debris. Operation and maintenance of the project would not generate solid waste. Therefore, impacts related to solid waste would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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20 Wildfire

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d. Expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

- a. *If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

The project site is not within a fire hazard severity zone, but is located approximately 1.2 miles southwest of lands designated as moderate, high, and very high fire hazard severity zones within a state responsibility area (CAL FIRE 2024).

As discussed in Environmental Checklist Section 9, *Hazards and Hazardous Materials*, the project site is within the planning area of the County's Emergency Operations Plan (County of Ventura 2021). While implementation of the project would increase traffic to and from the project site during construction, the project would not require the closure of Vineyard Avenue and United would implement traffic controls as necessary to ensure traffic is able to safely travel on Vineyard Avenue and, if necessary, Vineyard Avenue could be used as an evacuation route. During operation,

the project would result in a minor increase in operations and maintenance activities as workers travel from the Noble Basin to the Ferro Basin. However, this would not require road closures or otherwise result in substantial interferences with implementation of the Emergency Operations Plan. Therefore, impacts related to impairment of an adopted emergency response plan or emergency evacuation plan would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- b. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

The project site is in a flat area and would not exacerbate wildfire risks due to slope. Additionally, the project would not have project occupants as no habitable structures are proposed; accordingly, only construction workers located on site during the construction phase could be exposed to wildfire. The project site is surrounded by existing agricultural and agricultural commercial land uses, residences, and roadways and is not located in areas with unmanaged combustible vegetation. To minimize fire risk, construction personnel would adhere to PRC Section 4442, which requires earth-moving and portable construction equipment with internal combustion engines to use spark arrestors when operating on any forest-covered, brush-covered, or grass-covered land. In addition, PRC Section 4428 requires construction contractors to maintain fire suppression equipment during the highest fire danger period (April 1 to December 1) when operating on or near any forest-covered, brush-covered, or grass-covered land. The project area contains limited grass-covered land, which would reduce the potential for spark-induced wildfire. Therefore, impacts related to exposure of construction workers to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

- c. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

The project would not require the installation of roads, fuel breaks, emergency water sources, or power lines. The proposed pipelines would be installed via an undercrossing and would not include materials that would exacerbate fire risk or result in temporary or ongoing impacts to the environment. No impact would occur.

NO IMPACT

- d. *If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

The project would not include the construction of habitable structures that could expose people to downslopes or downstream flooding or landslides. As discussed in Environmental Checklist Section 7, *Geology and Soils*, the project site is flat and not subject to landslides. As discussed in Environmental Checklist Section 10, *Hydrology and Water Quality*, the project site is not subject to flooding. Therefore, the project would not expose structures to downslopes or downstream flooding or landslides as a result of runoff, post-fire slope instability or drainage changes. No impact would occur.

NO IMPACT

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21 Mandatory Findings of Significance

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than - Significant Impact	No Impact
Does the project:				
a. Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☐	☒
b. Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐
c. Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

- a. *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?*

As discussed in Section 4, *Biological Resources*, the project would not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of a rare or endangered plant or animal. In addition, as discussed in Section 5, *Cultural Resources*, the project would not eliminate important examples of the major periods of California history or prehistory. No impact would occur.

NO IMPACT

- b. *Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

Cumulative impacts are defined as two or more individual (and potentially less than significant) project effects which, when considered together or in concert with other projects, combine to result in a significant impact within an identified geographic area. Cumulative development in the vicinity of the project site includes the following (County of Ventura 2024):

- **Approved Permit PL23-0133:** A conditional use permit to allow rental and leasing of heavy equipment. This project also involves the replacement of parking spaces with an area for tractor displays. This project is located approximately 0.5 mile southwest of the Ferro Basin.
- **Approved Permit PL23-0067:** A conditional use permit to allow the continued operation of an existing concrete batch plant until 2030. The project would not include new construction, expansion, or increase in the facility’s operational capacity. This project is located approximately 0.6 mile northeast of the Noble Basin.

Project impacts are primarily temporary, localized effects that would occur during construction activities. As discussed throughout this IS-MND, the project would result in no impacts to agriculture and forestry resources, energy, land use and planning, mineral resources, population and housing, public services, recreation, and tribal cultural resources, and therefore the project would not contribute to cumulative impacts to these resources. The potential for the project to contribute to cumulative impacts would be limited to the infrequent periods of project activities and the following specific issue areas, for which the project is anticipated to have less than significant impacts (with or without mitigation):

- **Air Quality:** Because the Basin is designated as being in nonattainment for the ozone NAAQS and CAAQS and nonattainment for the PM₁₀ CAAQS, significant cumulative air quality impacts currently exist for these pollutants. As discussed in Section 3, *Air Quality*, with implementation of Mitigation Measure AQ-1, the proposed project would not generate emissions of these air pollutants which exceed the VCAPCD significance thresholds, which are intended to assess whether a project’s contribution to existing cumulative air quality impacts is considerable. Therefore, the project’s contribution to significant cumulative air quality impacts would not be cumulatively considerable.
- **Biological Resources:** Cumulative development in the region would continue to disturb areas with the potential to contain or provide habitat for biological resources. Cumulative development projects have undergone or would be required to undergo CEQA review, which would determine the extent of potential biological resources impacts and mitigate those impacts appropriately. If these cumulative projects would result in impacts to biological resources, impacts to such resources would be addressed on a case-by-case basis. Given the uncertainty in the extent of impacts associated with these projects, this analysis conservatively assumes a significant cumulative impact to biological resources would occur. Nevertheless, the proposed project would be required to implement Mitigation Measure BIO-1 to reduce its impacts to biological resources to a less-than-significant level such that project-level impacts would not result in a cumulatively considerable contribution to this cumulative impact.

- **Cultural Resources:** Cumulative development in the region would continue to disturb areas with the potential to contain cultural and tribal cultural resources. As mentioned above, cumulative development projects have undergone or would be required to undergo CEQA review, which would determine the extent of potential cultural resources impacts and mitigate those impacts appropriately. If cumulative projects would result in impacts to known or unknown cultural resources, impacts to such resources would be addressed on a case-by-case basis. Given the uncertainty in the extent of impacts associated with these projects, this analysis conservatively assumes a significant cumulative impact to cultural resources would occur. Nevertheless, the proposed project would be required to implement Mitigation Measure CR-1 to reduce its impacts to cultural resources to a less-than-significant level such that project-level impacts would not result in a cumulatively considerable contribution to this cumulative impact.
- **Geology and Soils:** Cumulative development in the region would continue to disturb areas with the potential to contain paleontological resources. As discussed above, cumulative development projects have undergone or would be required to undergo CEQA review, which would determine the extent of potential paleontological resources impacts and mitigate those impacts appropriately. This analysis conservatively assumes a significant cumulative impact to paleontological resources would occur. Nevertheless, the proposed project would be required to implement Mitigation Measure GEO-1 to reduce its impacts to paleontological resources to a less-than-significant level such that project-level impacts would not result in a cumulatively considerable contribution to this cumulative impact.
- **Greenhouse Gas Emissions:** GHG emissions and climate change are, by definition, cumulative impacts. As discussed in Environmental Checklist Section 8, *Greenhouse Gas Emissions*, the adverse environmental impacts of cumulative GHG emissions, including increased average temperatures, more drought years, and more frequent large wildfires, are already occurring. As a result, cumulative impacts related to GHG emissions are significant. Thus, the issue of climate change involves an analysis of whether a project's contribution towards an impact is cumulatively considerable. As discussed in Section 8, *Greenhouse Gas Emissions*, project emissions would be consistent with adopted plans and would therefore not be cumulatively considerable.
- **Hazards and Hazardous Materials:** Similar to the proposed project, cumulative projects would be required to comply with regulations applicable to the use, disposal, and transportation of hazardous materials during construction activities, and compliance with applicable regulations would reduce potential cumulative impacts to less-than-significant levels. With respect to the use and accidental release of hazardous materials in the environment during construction, effects are generally limited to site-specific conditions. Therefore, cumulative impacts related to accidental release of hazardous materials would not be significant.
- **Hydrology and Water Quality:** As discussed in Section 10, *Hydrology and Water Quality*, the project's construction-related water quality impacts would be less than significant with SWPPP implementation and regulatory compliance. The cumulative projects listed above would have less than significant impacts related to hydrology and water quality, as they would be required to comply with existing NPDES regulations to ensure they do not result in substantial erosion or stormwater discharges that would substantially affect water quality in the area. Implementation of these regulations minimizes and avoids the potential for cumulative impacts to occur. Additionally, implementation of the BMPs identified in the construction BMPs in the *Project Description* would further reduce potential impacts to water quality. Therefore, the project's contribution to significant cumulative hydrology and water quality impacts would not be cumulatively considerable.

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

- **Transportation:** The cumulative development projects listed above may occur at the same time as the proposed project. However, the cumulative development projects and the proposed project would not require roadway closures such that they would result in a significant cumulative transportation impact.
- **Utilities and Service Systems:** The project itself consists of water conveyance infrastructure to facilitate groundwater recharge, and would therefore not result in cumulatively considerable contribution to adverse impacts on water supply. The project would temporarily generate minimal wastewater and solid waste during construction. Therefore, the project's contribution to cumulative impacts related to solid waste or wastewater would not be considerable.
- **Wildfire:** As described in Section 20, *Wildfire*, potential wildfire impacts associated with the project would be limited to heavy-duty construction equipment possibly producing sparks to ignite vegetation, which would be less than significant with compliance with applicable law. Project operation would not involve potentially flammable activities. In addition, the proposed project would not introduce habitable structures, and therefore, would not expose new residents to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. The cumulative projects listed above would generally involve the continued operation of existing activities, and would not contribute considerably to cumulative wildfire impacts. Since there would be no long-term project operational wildfire impacts and potential construction-related wildfire impacts would be limited, the project's contribution to cumulative impact wildfire impacts would not be considerable.

Given the above discussion, the proposed project would not result in a cumulatively considerable contribution to a significant cumulative impact with mitigation incorporated.

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- c. *Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?*

In general, impacts to human beings are associated with air quality, hazards and hazardous materials, noise, and wildfire. These are discussed in detail in Section 3, *Air Quality*, Section 9, *Hazards and Hazardous Materials*, Section 13, *Noise*, and Section 20, *Wildfire*. The project would implement Mitigation Measure AQ-1 which would require use of Tier 4 construction equipment or a maximum of three scrapers during Ferro Basin grading activities which would reduce potential air quality impacts to a less-than-significant level. The project's impact on hazards and hazardous materials, noise, and wildfire would be less than significant. Therefore, with incorporation of mitigation AQ-1, the project's impact on human beings would be reduced to a less-than-significant level.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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CalEEMod Modeling Outputs

United Groundwater Recharge Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	United Groundwater Recharge
Construction Start Date	7/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	7.20
Location	34.26682841503914, -119.14500137269494
County	Ventura
City	Unincorporated
Air District	Ventura County APCD
Air Basin	South Central Coast
TAZ	3451
EDFZ	8
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	184	Acre	184	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.23	3.56	31.2	28.3	0.09	1.22	2.59	3.45	1.12	1.32	1.69	—	9,633	9,633	0.39	0.08	0.61	9,668
Mit.	2.92	2.52	20.6	35.9	0.09	0.80	2.59	3.03	0.74	1.32	1.69	—	9,633	9,633	0.39	0.08	0.61	9,668
% Reduced	31%	29%	34%	-27%	—	34%	—	12%	34%	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.23	3.56	31.2	28.2	0.09	1.22	3.07	3.76	1.12	1.38	2.02	—	9,626	9,626	0.39	0.08	0.03	9,660
Mit.	2.92	2.51	20.6	35.8	0.09	0.80	3.07	3.76	0.74	1.38	2.02	—	9,626	9,626	0.39	0.08	0.03	9,660
% Reduced	31%	29%	34%	-27%	—	34%	—	—	34%	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.43	0.36	3.20	3.41	0.01	0.12	0.49	0.60	0.11	0.24	0.34	—	923	923	0.04	0.01	0.06	926
Mit.	0.36	0.31	2.62	3.83	0.01	0.11	0.49	0.60	0.10	0.24	0.34	—	923	923	0.04	0.01	0.06	926
% Reduced	17%	16%	18%	-12%	—	13%	—	—	13%	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.58	0.62	< 0.005	0.02	0.09	0.11	0.02	0.04	0.06	—	153	153	0.01	< 0.005	0.01	153
Mit.	0.07	0.06	0.48	0.70	< 0.005	0.02	0.09	0.11	0.02	0.04	0.06	—	153	153	0.01	< 0.005	0.01	153
% Reduced	17%	16%	18%	-12%	—	13%	—	—	13%	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	No	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mit.	—	No	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	—	No	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mit.	—	No	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.15	0.97	9.09	7.67	0.01	0.40	2.59	2.99	0.37	1.32	1.69	—	1,411	1,411	0.06	0.01	0.13	1,417
2026	4.23	3.56	31.2	28.3	0.09	1.22	2.23	3.45	1.12	0.26	1.38	—	9,633	9,633	0.39	0.08	0.61	9,668
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	2.13	1.79	16.8	15.1	0.03	0.69	3.07	3.76	0.63	1.38	2.02	—	3,613	3,613	0.15	0.03	0.01	3,626
2026	4.23	3.56	31.2	28.2	0.09	1.22	3.07	3.70	1.12	1.38	1.96	—	9,626	9,626	0.39	0.08	0.03	9,660
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.33	0.28	2.59	2.41	< 0.005	0.11	0.49	0.60	0.10	0.24	0.34	—	516	516	0.02	< 0.005	0.03	518
2026	0.43	0.36	3.20	3.41	0.01	0.12	0.19	0.31	0.11	0.04	0.15	—	923	923	0.04	0.01	0.06	926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.06	0.05	0.47	0.44	< 0.005	0.02	0.09	0.11	0.02	0.04	0.06	—	85.5	85.5	< 0.005	< 0.005	0.01	85.8
2026	0.08	0.07	0.58	0.62	< 0.005	0.02	0.03	0.06	0.02	0.01	0.03	—	153	153	0.01	< 0.005	0.01	153

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.15	0.97	9.09	7.67	0.01	0.40	2.59	2.99	0.37	1.32	1.69	—	1,411	1,411	0.06	0.01	0.13	1,417
2026	2.92	2.52	20.6	35.9	0.09	0.80	2.23	3.03	0.74	0.26	1.00	—	9,633	9,633	0.39	0.08	0.61	9,668
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.13	1.79	16.8	15.1	0.03	0.69	3.07	3.76	0.63	1.38	2.02	—	3,613	3,613	0.15	0.03	0.01	3,626
2026	2.92	2.51	20.6	35.8	0.09	0.80	3.07	3.70	0.74	1.38	1.96	—	9,626	9,626	0.39	0.08	0.03	9,660
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.33	0.28	2.59	2.41	< 0.005	0.11	0.49	0.60	0.10	0.24	0.34	—	516	516	0.02	< 0.005	0.03	518
2026	0.36	0.31	2.62	3.83	0.01	0.10	0.19	0.29	0.09	0.04	0.13	—	923	923	0.04	0.01	0.06	926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.06	0.05	0.47	0.44	< 0.005	0.02	0.09	0.11	0.02	0.04	0.06	—	85.5	85.5	< 0.005	< 0.005	0.01	85.8

2026	0.07	0.06	0.48	0.70	< 0.005	0.02	0.03	0.05	0.02	0.01	0.02	—	153	153	0.01	< 0.005	0.01	153

3. Construction Emissions Details

3.1. Mobilization and Procurement (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	0.96	9.08	7.51	0.01	0.40	—	0.40	0.37	—	0.37	—	1,378	1,378	0.06	0.01	—	1,383
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.37	1.13	< 0.005	0.06	—	0.06	0.06	—	0.06	—	208	208	0.01	< 0.005	—	208
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.25	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.4	33.4	< 0.005	< 0.005	0.13	34.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	0.01	4.92
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Mobilization and Procurement (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	0.96	9.08	7.51	0.01	0.40	—	0.40	0.37	—	0.37	—	1,378	1,378	0.06	0.01	—	1,383
Dust From Material Movement	—	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.37	1.13	< 0.005	0.06	—	0.06	0.06	—	0.06	—	208	208	0.01	< 0.005	—	208
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.4	33.4	< 0.005	< 0.005	0.13	34.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	0.01	4.92
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Ferro Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.18	3.51	31.2	27.6	0.09	1.22	—	1.22	1.12	—	1.12	—	9,469	9,469	0.38	0.08	—	9,502

Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.18	3.51	31.2	27.6	0.09	1.22	—	1.22	1.12	—	1.12	—	9,469	9,469	0.38	0.08	—	9,502
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.71	1.51	< 0.005	0.07	—	0.07	0.06	—	0.06	—	519	519	0.02	< 0.005	—	521
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.31	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.9	85.9	< 0.005	< 0.005	—	86.2
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	164	164	< 0.005	0.01	0.61	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	157	157	< 0.005	0.01	0.02	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.64	8.64	< 0.005	< 0.005	0.01	8.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Ferro Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.86	2.46	20.6	35.2	0.09	0.80	—	0.80	0.74	—	0.74	—	9,469	9,469	0.38	0.08	—	9,502
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.46	20.6	35.2	0.09	0.80	—	0.80	0.74	—	0.74	—	9,469	9,469	0.38	0.08	—	9,502
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.13	1.93	< 0.005	0.04	—	0.04	0.04	—	0.04	—	519	519	0.02	< 0.005	—	521
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.9	85.9	< 0.005	< 0.005	—	86.2
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.73	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	164	164	< 0.005	0.01	0.61	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	157	157	< 0.005	0.01	0.02	158
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.64	8.64	< 0.005	< 0.005	0.01	8.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Noble Earthwork (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.76	16.8	14.7	0.03	0.69	—	0.69	0.63	—	0.63	—	3,517	3,517	0.14	0.03	—	3,529
Dust From Material Movement	—	—	—	—	—	—	2.97	2.97	—	1.36	1.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.49	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	104
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.43	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	95.8	95.8	< 0.005	< 0.005	0.01	97.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.83	2.83	< 0.005	< 0.005	0.01	2.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Noble Earthwork (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.76	16.8	14.7	0.03	0.69	—	0.69	0.63	—	0.63	—	3,517	3,517	0.14	0.03	—	3,529

Dust From Material Movement	—	—	—	—	—	—	2.97	2.97	—	1.36	1.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.49	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	104
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.1	17.1	< 0.005	< 0.005	—	17.2
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.43	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	95.8	95.8	< 0.005	< 0.005	0.01	97.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.83	2.83	< 0.005	< 0.005	0.01	2.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Noble Earthwork (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	15.4	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	3,518	3,518	0.14	0.03	—	3,530
Dust From Material Movement	—	—	—	—	—	—	2.97	2.97	—	1.36	1.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.2	48.2	< 0.005	< 0.005	—	48.4

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.98	7.98	< 0.005	< 0.005	—	8.01
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.40	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	93.9	93.9	< 0.005	< 0.005	0.01	95.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Noble Earthwork (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.68	15.4	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	3,518	3,518	0.14	0.03	—	3,530
Dust From Material Movement	—	—	—	—	—	—	2.97	2.97	—	1.36	1.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.2	48.2	< 0.005	< 0.005	—	48.4
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.98	7.98	< 0.005	< 0.005	—	8.01

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.40	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	93.9	93.9	< 0.005	< 0.005	0.01	95.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Punch List / Startup (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.03	9.74	10.6	0.02	0.36	—	0.36	0.33	—	0.33	—	2,648	2,648	0.11	0.02	—	2,657
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	< 0.005	< 0.005	—	109
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.0	18.0	< 0.005	< 0.005	—	18.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Punch List / Startup (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.03	9.74	10.6	0.02	0.36	—	0.36	0.33	—	0.33	—	2,648	2,648	0.11	0.02	—	2,657
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	< 0.005	< 0.005	—	109
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.0	18.0	< 0.005	< 0.005	—	18.1

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Noble Gate (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.50	10.9	0.02	0.31	—	0.31	0.29	—	0.29	—	2,092	2,092	0.08	0.02	—	2,099
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	115
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.0	19.0	< 0.005	< 0.005	—	19.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.93	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	219	219	< 0.005	0.01	0.02	222
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Noble Gate (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.50	10.9	0.02	0.31	—	0.31	0.29	—	0.29	—	2,092	2,092	0.08	0.02	—	2,099
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	115	115	< 0.005	< 0.005	—	115
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.0	19.0	< 0.005	< 0.005	—	19.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.93	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	219	219	< 0.005	0.01	0.02	222
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Ferro Structure and Trash Rack (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.01	—	0.01	—	98.5	98.5	< 0.005	< 0.005	—	98.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	—	16.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.19	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	282	282	< 0.005	0.01	0.03	285
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.02	11.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.93	1.93	< 0.005	< 0.005	< 0.005	1.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Ferro Structure and Trash Rack (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.01	—	0.01	—	98.5	98.5	< 0.005	< 0.005	—	98.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	—	16.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.10	0.09	0.11	1.19	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	282	282	< 0.005	0.01	0.03	285
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.02	11.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.93	1.93	< 0.005	< 0.005	< 0.005	1.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Open Cut Pipeline (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.98	8.27	0.02	0.35	—	0.35	0.32	—	0.32	—	2,264	2,264	0.09	0.02	—	2,272
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.07	0.62	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	155	155	0.01	< 0.005	—	156
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.7	25.7	< 0.005	< 0.005	—	25.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	0.01	< 0.005	0.01	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.81	8.81	< 0.005	< 0.005	0.02	8.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Open Cut Pipeline (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.98	8.27	0.02	0.35	—	0.35	0.32	—	0.32	—	2,264	2,264	0.09	0.02	—	2,272
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.62	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	155	155	0.01	< 0.005	—	156
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.7	25.7	< 0.005	< 0.005	—	25.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	128	128	0.01	< 0.005	0.01	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.81	8.81	< 0.005	< 0.005	0.02	8.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Tunneling (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.28	2.38	< 0.005	0.04	—	0.04	0.03	—	0.03	—	382	382	0.02	< 0.005	—	384
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.4	31.4	< 0.005	< 0.005	—	31.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.20	5.20	< 0.005	< 0.005	—	5.22
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.9	31.9	< 0.005	< 0.005	< 0.005	32.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Tunneling (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	1.28	2.38	< 0.005	0.04	—	0.04	0.03	—	0.03	—	382	382	0.02	< 0.005	—	384
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.4	31.4	< 0.005	< 0.005	—	31.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.20	5.20	< 0.005	< 0.005	—	5.22
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.9	31.9	< 0.005	< 0.005	< 0.005	32.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Mobilization and Procurement	Site Preparation	7/1/2025	9/30/2025	5.00	55.0	—
Ferro Grading	Grading	3/24/2026	4/21/2026	5.00	20.0	—
Noble Earthwork	Grading	12/17/2025	1/7/2026	5.00	15.0	—
Punch List / Startup	Architectural Coating	3/2/2026	3/23/2026	5.00	15.0	—
Noble Gate	Trenching	1/8/2026	2/5/2026	5.00	20.0	—
Ferro Structure and Trash Rack	Trenching	2/6/2026	2/27/2026	5.00	15.0	—
Open Cut Pipeline	Trenching	11/17/2025	12/16/2025	5.00	25.0	—
Tunneling	Trenching	10/1/2025	11/1/2025	7.00	30.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization and Procurement	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Ferro Grading	Scrapers	Diesel	Average	5.00	8.00	423	0.48
Noble Earthwork	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Noble Earthwork	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Noble Earthwork	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Punch List / Startup	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Punch List / Startup	Cranes	Diesel	Average	2.00	8.00	367	0.29
Punch List / Startup	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Noble Gate	Cranes	Diesel	Average	1.00	7.00	367	0.29
Noble Gate	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Noble Gate	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Noble Gate	Tractors/Loaders/Backh	Diesel	Average	3.00	7.00	84.0	0.37
Noble Gate	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Ferro Structure and Trash Rack	Cranes	Diesel	Average	1.00	7.00	367	0.29
Ferro Structure and Trash Rack	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Ferro Structure and Trash Rack	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Ferro Structure and Trash Rack	Tractors/Loaders/Backh oes	Diesel	Average	3.00	7.00	84.0	0.37
Ferro Structure and Trash Rack	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Open Cut Pipeline	Cranes	Diesel	Average	2.00	8.00	367	0.29
Open Cut Pipeline	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Tunneling	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization and Procurement	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Ferro Grading	Scrapers	Diesel	Average	3.00	8.00	423	0.48
Ferro Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Noble Earthwork	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Noble Earthwork	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Noble Earthwork	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Punch List / Startup	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Punch List / Startup	Cranes	Diesel	Average	2.00	8.00	367	0.29
Punch List / Startup	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Noble Gate	Cranes	Diesel	Average	1.00	7.00	367	0.29

Noble Gate	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Noble Gate	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Noble Gate	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Noble Gate	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Ferro Structure and Trash Rack	Cranes	Diesel	Average	1.00	7.00	367	0.29
Ferro Structure and Trash Rack	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Ferro Structure and Trash Rack	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Ferro Structure and Trash Rack	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Ferro Structure and Trash Rack	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Open Cut Pipeline	Cranes	Diesel	Average	2.00	8.00	367	0.29
Open Cut Pipeline	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Tunneling	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Mobilization and Procurement	—	—	—	—
Mobilization and Procurement	Worker	2.50	18.5	LDA,LDT1,LDT2
Mobilization and Procurement	Vendor	—	10.2	HHDT,MHDT
Mobilization and Procurement	Hauling	0.00	20.0	HHDT
Mobilization and Procurement	Onsite truck	—	—	HHDT
Tunneling	—	—	—	—
Tunneling	Worker	2.50	18.5	LDA,LDT1,LDT2

Tunneling	Vendor	—	10.2	HHDT,MHDT
Tunneling	Hauling	0.00	20.0	HHDT
Tunneling	Onsite truck	—	—	HHDT
Open Cut Pipeline	—	—	—	—
Open Cut Pipeline	Worker	10.0	18.5	LDA,LDT1,LDT2
Open Cut Pipeline	Vendor	—	10.2	HHDT,MHDT
Open Cut Pipeline	Hauling	0.00	20.0	HHDT
Open Cut Pipeline	Onsite truck	—	—	HHDT
Noble Earthwork	—	—	—	—
Noble Earthwork	Worker	7.50	18.5	LDA,LDT1,LDT2
Noble Earthwork	Vendor	—	10.2	HHDT,MHDT
Noble Earthwork	Hauling	0.00	20.0	HHDT
Noble Earthwork	Onsite truck	—	—	HHDT
Noble Gate	—	—	—	—
Noble Gate	Worker	17.5	18.5	LDA,LDT1,LDT2
Noble Gate	Vendor	—	10.2	HHDT,MHDT
Noble Gate	Hauling	0.00	20.0	HHDT
Noble Gate	Onsite truck	—	—	HHDT
Ferro Structure and Trash Rack	—	—	—	—
Ferro Structure and Trash Rack	Worker	22.5	18.5	LDA,LDT1,LDT2
Ferro Structure and Trash Rack	Vendor	—	10.2	HHDT,MHDT
Ferro Structure and Trash Rack	Hauling	0.00	20.0	HHDT
Ferro Structure and Trash Rack	Onsite truck	—	—	HHDT
Ferro Grading	—	—	—	—
Ferro Grading	Worker	12.5	18.5	LDA,LDT1,LDT2
Ferro Grading	Vendor	—	10.2	HHDT,MHDT
Ferro Grading	Hauling	0.00	20.0	HHDT

Ferro Grading	Onsite truck	—	—	HHDT
Punch List / Startup	—	—	—	—
Punch List / Startup	Worker	0.00	18.5	LDA,LDT1,LDT2
Punch List / Startup	Vendor	—	10.2	HHDT,MHDT
Punch List / Startup	Hauling	0.00	20.0	HHDT
Punch List / Startup	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Mobilization and Procurement	—	—	—	—
Mobilization and Procurement	Worker	2.50	18.5	LDA,LDT1,LDT2
Mobilization and Procurement	Vendor	—	10.2	HHDT,MHDT
Mobilization and Procurement	Hauling	0.00	20.0	HHDT
Mobilization and Procurement	Onsite truck	—	—	HHDT
Tunneling	—	—	—	—
Tunneling	Worker	2.50	18.5	LDA,LDT1,LDT2
Tunneling	Vendor	—	10.2	HHDT,MHDT
Tunneling	Hauling	0.00	20.0	HHDT
Tunneling	Onsite truck	—	—	HHDT
Open Cut Pipeline	—	—	—	—
Open Cut Pipeline	Worker	10.0	18.5	LDA,LDT1,LDT2
Open Cut Pipeline	Vendor	—	10.2	HHDT,MHDT
Open Cut Pipeline	Hauling	0.00	20.0	HHDT
Open Cut Pipeline	Onsite truck	—	—	HHDT
Noble Earthwork	—	—	—	—
Noble Earthwork	Worker	7.50	18.5	LDA,LDT1,LDT2
Noble Earthwork	Vendor	—	10.2	HHDT,MHDT

Noble Earthwork	Hauling	0.00	20.0	HHDT
Noble Earthwork	Onsite truck	—	—	HHDT
Noble Gate	—	—	—	—
Noble Gate	Worker	17.5	18.5	LDA,LDT1,LDT2
Noble Gate	Vendor	—	10.2	HHDT,MHDT
Noble Gate	Hauling	0.00	20.0	HHDT
Noble Gate	Onsite truck	—	—	HHDT
Ferro Structure and Trash Rack	—	—	—	—
Ferro Structure and Trash Rack	Worker	22.5	18.5	LDA,LDT1,LDT2
Ferro Structure and Trash Rack	Vendor	—	10.2	HHDT,MHDT
Ferro Structure and Trash Rack	Hauling	0.00	20.0	HHDT
Ferro Structure and Trash Rack	Onsite truck	—	—	HHDT
Ferro Grading	—	—	—	—
Ferro Grading	Worker	12.5	18.5	LDA,LDT1,LDT2
Ferro Grading	Vendor	—	10.2	HHDT,MHDT
Ferro Grading	Hauling	0.00	20.0	HHDT
Ferro Grading	Onsite truck	—	—	HHDT
Punch List / Startup	—	—	—	—
Punch List / Startup	Worker	0.00	18.5	LDA,LDT1,LDT2
Punch List / Startup	Vendor	—	10.2	HHDT,MHDT
Punch List / Startup	Hauling	0.00	20.0	HHDT
Punch List / Startup	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Mobilization and Procurement	0.00	0.00	27.5	0.00	—
Ferro Grading	0.00	0.00	100	0.00	—
Noble Earthwork	0.00	0.00	22.5	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	184	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.58	annual days of extreme heat
Extreme Precipitation	5.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	36.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—

AQ-Ozone	42.6
AQ-PM	34.8
AQ-DPM	17.1
Drinking Water	98.3
Lead Risk Housing	32.7
Pesticides	97.0
Toxic Releases	20.9
Traffic	8.22
Effect Indicators	—
CleanUp Sites	19.0
Groundwater	63.4
Haz Waste Facilities/Generators	67.6
Impaired Water Bodies	99.0
Solid Waste	96.2
Sensitive Population	—
Asthma	27.5
Cardio-vascular	22.1
Low Birth Weights	41.5
Socioeconomic Factor Indicators	—
Education	63.4
Housing	39.2
Linguistic	67.2
Poverty	41.5
Unemployment	29.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	76.10676248
Employed	68.92082638
Median HI	83.69049147
Education	—
Bachelor's or higher	61.31143334
High school enrollment	100
Preschool enrollment	26.60079559
Transportation	—
Auto Access	78.96830489
Active commuting	62.03002695
Social	—
2-parent households	29.86013089
Voting	84.89670217
Neighborhood	—
Alcohol availability	78.98113692
Park access	4.632362376
Retail density	6.569998717
Supermarket access	9.957654305
Tree canopy	62.59463621
Housing	—
Homeownership	65.95662774
Housing habitability	77.21031695
Low-inc homeowner severe housing cost burden	59.25830874
Low-inc renter severe housing cost burden	80.94443732
Uncrowded housing	46.83690491

Health Outcomes	—
Insured adults	38.84255101
Arthritis	0.0
Asthma ER Admissions	77.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	42.2
Cognitively Disabled	36.6
Physically Disabled	22.7
Heart Attack ER Admissions	80.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	15.2
SLR Inundation Area	0.0

Children	83.0
Elderly	13.7
English Speaking	55.4
Foreign-born	41.4
Outdoor Workers	8.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.3
Traffic Density	16.8
Traffic Access	23.0
Other Indices	—
Hardship	40.8
Other Decision Support	—
2016 Voting	85.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	51.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Applicant provided schedule
Construction: Off-Road Equipment	Mobilization and Procurement, Ferro Grading, Noble Earthwork, Open Cut Pipeline, and Tunneling use construction equipment provided by the applicant. Defaults were assumed for the Noble Gate, Ferro Structure and Trash Rack, and Tunneling phases. The Punch List/Startup phase models the construction equipment used during open cut pipeline and tunneling.
Construction: Architectural Coatings	No architectural coatings included.

Appendix B

Biological Field Assessment

Noble and Ferro Basin Field Assessment

Date: January 2, 2024

Surveyor(s): Randall McInvale, Hannah Garcia-Wickstrum

Start Time: 0745

End Time: 0930

Weather: Cold and breezy

Habitat Type(s): Disturbed/developed

Objective/Summary

Assess the Noble and Ferro Basins for the Vineyard Crossing Project.

Survey Details/Observations

Noble Basin (Figure 1) was filled with water. Several species of birds utilizing the basin. Observed an old nest in one of the pine trees adjacent to Noble Basin (Figure 2).

Ferro Basin (Figure 3) had recently been disced and there was primarily non-native plants growing along the edges (Figure 4). Did not observe any old nests in any of the eucalyptus trees.

Table 1 - Plant Species Observed

Common Name	Scientific Name
Golden wattle	<i>Acacia pycnantha</i>
Spurge	<i>Euphorbia</i> sp.
Iceplant	<i>Carpobrotus edulis</i>
Mustard	<i>Hirschfeldia incana</i>
Morning glory	<i>Calystegia macrostegia</i>
Jersey cudweed	<i>Pseudognaphalium luteo-album</i>
Coyote bush	<i>Baccharis pilularis</i>
Unknown grass	<i>Bromus</i> sp.
Castor bean	<i>Ricinus communis</i>
Tree tobacco	<i>Nicotiana glauca</i>
Horseweed	<i>Conyza canadensis</i>
Russian thistle	<i>Salsola tragus</i>
White sweet clover	<i>Melilotus albus</i>
Telegraph weed	<i>Heterotheca grandiflora</i>
Peruvian pepper tree	<i>Schinus molle</i>
Mousehole tree	<i>Myoporum laetum</i>
Red gum eucalyptus? Blue gum?	<i>Eucalyptus</i> sp.
Bermuda buttercup	<i>Oxalis pes-caprae</i>
Redstem filaree	<i>Erodium cicutarium</i>



Lupine	<i>Lupinus</i> sp.
False goldenaster	<i>Heterotheca sessiflora</i>
Unknown pine tree	<i>Pinus</i> sp.
Southern silky oak	<i>Grevilea robusta</i>
Jimson weed	<i>Datura wrightii</i>

Survey Photos



Figure 1 – Noble Basin filled with water. Pine trees and silky oaks along the edges.



Figure 2- stick nest in pine tree along the Noble Basin



Figure 3 – Disced field in Ferro Basin.



Figure 4 – non-native plants along slope of Ferro Basin. Eucalyptus trees in distance.

Appendix C

Cultural Resources Assessment



Rincon Consultants, Inc.

180 North Ashwood Avenue
Ventura, California 93003
805-644-4455

July 30, 2024

Project No: 24-15820

Hannah Garcia-Wickstrum, Environmental Scientist

United Water Conservation District

1701 North Lombard Street, Suite #200

Oxnard, California 93030

Via email: hannahg@unitedwater.org

**Subject: Cultural Resources Assessment for Groundwater Recharge Capacity Expansion
Project – Ferro Recharge, Ventura County, California**

Dear Ms. Garcia-Wickstrum:

The United Water Conservation District (United) retained Rincon Consultants, Inc. (Rincon) to conduct a cultural resources assessment for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (project) in support of an Initial Study – Mitigated Negative Declaration (IS-MND) being prepared pursuant to the California Environmental Quality Act (CEQA). The project involves the construction of an undercrossing at Vineyard Avenue for the installation of two reinforced concrete pipelines to connect the existing Noble and Ferro Basins. United is the lead agency under CEQA. This cultural resources assessment report has been prepared to comply with CEQA and summarizes the methods and results of a California Historical Resources Information System (CHRIS) records search at the South Central Coastal Information Center (SCCIC), a Sacred Lands File (SLF) search conducted by the California Native American Heritage Commission (NAHC), archival and background research, and a pedestrian cultural resources survey.

Project Location and Description

Project Location

The project is located in an unincorporated portion of southwestern Ventura County, in an unsectioned portion of Township 2 North, Range 22 on the *Saticoy, California* United States Geological Survey (USGS) 7.5-minute topographic quadrangle (Attachment 1, Figure 1). Specifically, the project site is located on the southern margin of the Santa Clara River on both the northwestern and southeastern margins of Vineyard Avenue (State Route 232) approximately 0.5 mile southwest of State Route 118 between properties located at 5625 Vineyard Avenue and 5721 Vineyard Avenue (Attachment 1, Figure 2).

Project Description

United operates several hundred acres of groundwater spreading basins to facilitate groundwater recharge with diverted surface water flows. The purpose of the project is to connect United's Ferro and Noble basins, located on the northwest and southwest sides of Vineyard Avenue, respectively, via underground pipelines beneath Vineyard Avenue. The pipeline crossing would include installation of two reinforced concrete pipelines, 60 inches in diameter and approximately 650 feet in length, using open cut trench and jack-and-bore methods. The project would also involve the construction of metal grating and control gates on the open ends of the pipelines within the Ferro and Noble basins respectively, to prevent public access and control flow. Following installation of the undercrossing, an



earthen embankment would be constructed on the eastern side of the pipelines using sediments from a borrow area within the Noble Basin. Additionally, United may contour some or all of the Ferro Basin to facilitate the flow of water.

The following paragraphs summarize the construction methods for the proposed project.

Trenchless Pipeline Installation

The portion of the pipelines within the right-of-way of Vineyard Avenue would be installed via trenchless construction methods such as jack and bore or micro-tunneling. Trenchless pipeline installation would involve excavation of entry and exit pits on either end of the pipeline alignment, and the use of an auger and hydraulic jacks to push pipe casing through the ground between the pits. After completion of the casing, the proposed pipelines would then be installed inside the casing. The pipeline may also be direct jacked, without a casing. Micro-tunnelling would involve the use of drilling fluid to prevent caving. Pursuant to Caltrans requirements, the pipelines would be installed with a minimum spacing of 156 inches apart. The entry pit, which would be located on the west side of Vineyard Avenue outside of the right-of-way, would be approximately 35 feet by 40 feet and the exit pit, which would be located on the east side of Vineyard Avenue outside of the right-of-way, would be approximately 20 feet by 35 feet in size. The maximum excavation depth during this phase would be 25 feet.

Open Cut Trench Pipeline Installation

The remaining portion of the pipeline alignment, west and east of Vineyard Avenue and outside of the right-of-way, would be installed via open cut trench. Open cut trench pipeline installation would involve excavation of a trench, installation of the new pipelines, and then backfilling the trench with soil. The average excavation depth would be 15 feet, and the maximum depth of excavation is anticipated to be 25 feet. Open cut trench pipeline installation would likely occur once trenchless installation is complete and is anticipated to occur over three to five weeks.

Construction Grading and Contouring

Grading would occur on either side of Vineyard Avenue along the pipeline alignment, which would include the entry and exit pits required for trenchless installation. Grading and contouring would occur after pipeline installation. Additionally, an area in the northern portion of the Noble Basin would be used as a “borrow area,” or an area in which the construction contractor would excavate materials to create an embankment on the eastern end of the pipelines. Approximately 2,800 cubic yards of soil would be excavated from the Noble Basin borrow area and used to create the embankment.

After installation of the pipeline is complete, United may contour some or all of the Ferro Basin to facilitate recharge. To provide a conservative analysis, the maximum extent of possible contouring is considered herein. Contouring of the Ferro basin would involve excavation of a maximum of 50,000 cubic yards, and contouring would occur at least 100 feet away from the western property boundary of Ferro Basin.

Pipeline Features

Once the pipelines are installed, two control gates would be installed on the eastern end of the pipelines within the Noble Basin to provide hydraulic control. The gates would also prevent public access when Ferro Basin is not active. A pipe exit structure, including metal grating to prevent access to the pipelines, would be installed on the western end of the pipelines within the Ferro Basin.



Methods

California Historical Resources Information System Records Search

On April 5, 2024, Rincon conducted an in-person CHRIS records search at the SCCIC housed at California State University, Fullerton. The SCCIC is the official state repository for cultural resources records and reports for Ventura County. The purpose of the records search is to identify previous cultural resources studies and previously recorded cultural resources within the project site and a 0.5-mile radius. Rincon also reviewed the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Historical Landmarks list, the Built Environment Resources Directory, and the Archaeological Determination of Eligibility list.

Sacred Lands File Search

Rincon contacted the NAHC on March 15, 2024, to request a search of the SLF and a list of contacts for Native American groups culturally affiliated with the project site.

Background and Archival Research

Rincon conducted archival research in support of this study, including a review of historical topographic maps and aerial photographs as well as geologic and soils maps. The intent of the archival research is to determine the development history of the project site and its vicinity and to assess the likelihood for the project site to contain subsurface archaeological deposits.

Field Survey

Rincon Archaeologist Debbie Balam conducted a pedestrian survey of the project site on April 17, 2024. Due to the presence of standing water and thick vegetation, a combination of systematic and opportunistic survey methodologies was implemented to identify cultural resources. Systematic pedestrian survey were conducted in areas with visible ground surfaces using transect intervals spaced 10 to 15 meters apart and oriented from north to south. Opportunistic surveys were conducted in areas with standing water or dense vegetation and basin margins, clearings, and other accessible areas were inspected for the presence of cultural resources.

Exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, historical debris (e.g., metal, glass, ceramics), and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, foundations). Ground disturbances such as burrows and drainages were also visually inspected. A handheld Global Positioning Satellite unit and a georeferenced map of the project site were utilized to maintain survey location accuracy. Field records and a digital camera were used to document site characteristics and survey conditions. Copies of the survey notes and digital photographs are maintained at Rincon's Ventura office.



Findings

California Historical Resources Information System Records Search

Previous Cultural Resources Studies

The CHRIS records search indicates that 16 cultural resources studies were previously conducted within the 0.5-mile records search radius. Of these 16 studies, four (VN-00575, VN-00971 VN-01816, and VN-03287) include portions of the project site and two are within 200 feet of the project site (VN-01018 and VN-01172). Approximately 30 percent of the project site has been covered by previous studies. These six studies within and immediately adjacent to the project site are discussed in detail in the following paragraphs.

Study VN-00575

Study VN-00575 is an archaeological reconnaissance report prepared by Robert Lopez in 1988 for pipeline alignments, one of which is located within the Vineyard Avenue portion of the project site (Lopez 1988). The report summarizes the methods and results of a records search and a pedestrian survey. Three archaeological resources were identified as part of the study; however, none of these three resources are located within or immediately adjacent to the project site.

Study VN-00971

Study VN-00971 is a cultural resources survey report prepared by Singer and Associates in 1990 for four recycling station locations, one of which includes the portion of the project site on the southeast side of Vineyard Avenue (Singer and Atwood 1990). The study consisted of archival and background research, a records search, and a pedestrian survey. No cultural resources were identified within or adjacent to the project site as a result of the study.

Study VN-01018

Study VN-01018 is a cultural resources survey record prepared by Shelia Callison in 1980 for an approximately 17-acre parcel of land located northwest of the Central Avenue and Vineyard Avenue intersection, on the southwestern margin of the Ferro Basin (Callison 1980). The survey record summarizes only the results of the survey and does not include any archival research or records searches. No cultural resources were identified within or immediately adjacent to the project site as a result of the survey.

Study VN-01172

Study VN-01172 is an archaeological resources monitoring report prepared in 1992 documenting trenching within a parcel located immediately northeast of the Noble Basin (Brown 1992). The report summarizes the methods and results of archaeological resources monitoring conducted to assess the presence of buried archaeological deposits. No subsurface archaeological resources were identified during the trenching activities.

Study VN-01816

Study VN-01816 is an archaeological survey report prepared by Conejo Archaeological Consultants for a proposed juvenile hall center, the study area of which partially overlaps the southwestern margin of the Ferro Basin (Maki 1999). The report summarizes the methods and results of archival and



background research, a records search, and a pedestrian survey. No cultural resources were identified within or adjacent to the project site as a result of the study.

Study VN-03287

Study VN-03287 is a cultural resources study prepared by Rincon in 2017 for a recycled water pipeline project, a portion of which overlaps the southwestern margin of the Ferro Basin (Szromba et al. 2017). The study includes archival and background research, a records search, Native American outreach, local historic group outreach, and a pedestrian survey. No cultural resources were identified within or adjacent to the project site as a result of the study.

Previously Recorded Cultural Resources

The CHRIS records search indicates two cultural resources, both of which are historic-period built environment resources, have been previously recorded within the 0.5-mile records search radius. Of these two resources, one (P-56-153146 [Santa Clara River Levee]) is located immediately adjacent to the project site.

Resource P-56-153146 is a historic-period built resource documented in 2018 as the Santa Clara River Levee. Within Ventura County, the approximately 18-foot-wide Santa Clara River Levee traverses a 4.72-mile-long segment of the Santa Clara River's southern margin. The levee was originally constructed in 1961 to protect residential, industrial, and agricultural properties from periodic flooding (Smith and Hommerding 2018). The earthen levee is constructed of riprap siding and gravel, with embankments every two feet. Concrete drains and culverts were installed through the levee wall between 1981 and 2010. The resource was evaluated for inclusion in the NRHP and CRHR and was recommended not eligible due to a lack of association with significant individuals and events, as well as its lack of distinctive design and method of construction (Smith and Hommerding 2018). Resource P-56-153146 is located approximately 150 feet northwest of the Ferro Basin.

Sacred Lands File Search

On March 25, 2024, the NAHC responded to Rincon's SLF request, stating the results of the SLF search was negative for the presence of Native American cultural resources.

Background and Archival Research

Historical Topographic Map and Aerial Photograph Review

Historical topographic maps reviewed include the 1903, 1942, 1947, and 1964 *Santa Paula* 15-minute topographic quadrangles, and the 1951 *Saticoy* 7.5-minute topographic quadrangle. Historical aerial photographs of the project site were available for the years 1947, 1959, 1967, 1978, 1980, 1984, 1994, 2005, and 2016 (NETR Online 2024).

The 1903 topographic map shows the project site on the southeastern margin of the braided Santa Clara River floodplain, and a northeast-southwest trending road analogous to present-day Vineyard Avenue is depicted passing through the center of the project site. The 1942, 1947, 1951, and 1964 maps show agricultural fields/orchards covering a majority of the project site.

The 1947, 1959 and 1967 aerial photographs show the project site primarily comprised of agricultural fields and orchards. The 1978 photograph depicts gravel mining operations extending into the Noble Basin, with the 1980 and 1994 photographs showing standing water within the basin. The 1994 and 2005 photographs show a high degree of disturbance, possibly associated with adjacent gravel mining



operations within the northeastern portion of the Ferro Basin. The 2005 and 2016 photographs depict the project site's current condition, with two existing basins bisected by Vineyard Avenue.

Geologic Map Review

Geologic mapping indicates Holocene-age (11,650 years ago to present) stream terrace deposits (Qht) are mapped at surface within the project site (Tan et al. 2004). Stream terrace deposits are comprised of unconsolidated clayey sand and sandy clay gravel deposited on point bars and overbanks. These sediments were deposited during the Holocene, a period spanning human occupation of the region. However, these deposits form within braided stream channels and are comprised of large clastic particles such as gravel and sand, which represent a high energy, erosional environment that is not conducive to the natural burial and preservation of archaeological deposits (Waters 1992).

Soils Map Review

Soils mapping indicates a majority of the project site is underlain by Metz loamy sand, with the exception of the Ferro Basin's southern portion which is underlain by Pico sandy loam. Metz series soils form on floodplains and alluvial fans and are derived from sedimentary sources. The typical Metz series soil profile consists of topsoil disturbed by agricultural activities (Ap-horizon) from the ground surface to a depth of 12 inches below the ground surface followed by a C-horizon from 12 to 118 inches below the ground surface (USDA 1999).

The Pico series is characterized by deep, well-drained soils that form on floodplains and alluvial fans and are derived from sedimentary rocks (USDA 2003). The typical Pico series soil profile includes topsoil disturbed by agricultural activities (Ap-horizon) from the surface to a depth of 4 inches below the ground surface, followed by undisturbed topsoil (A-horizon) from depths of 4 to 14 inches below the ground surface, and sedimentary parent material (C-horizon) from depths of 14 inches to 60 inches below the ground surface.

Metz and Pico series soils do not typically contain subsurface topsoil (Ab-horizon), which would increase the potential for the presence of subsurface archaeological deposits.

Geotechnical Report Review

Rincon reviewed two geotechnical reports covering portions of the project site. The reports include one prepared by Oakridge Geoscience in 2019 (Oakridge Geoscience 2019), which covers the entire Ferro Basin, and one prepared by Fugro in 2022, which includes the eastern margin of the Ferro Basin, the pipeline alignment, and the western margin of the Noble Basin (Fugro 2022). The Oakridge Geoscience study included hand auger borings at 10 locations systematically placed to cover most of the Ferro Basin. The borings indicated the presence of fill material extending from the ground surface to depths ranging from 14 to 36 inches below the ground surface, with alluvium at greater depths.

The Fugro study included the placement of four mechanical borings within the project site that extend from the ground surface to a depth of 36 feet. In general, Fugro's borings identified the following subsurface sediments:

- Fill material from the ground surface to 6.5 - 8 feet below the ground surface.
- Undifferentiated channel deposits from 6.5 – 8 feet to 20 - 25 feet below the ground surface.
- Sandy-silt with gravel extending from 20 – 25 feet to 36 feet below the ground surface.



Summary

The background and archival research identified Holocene-age stream terrace deposits within the project site. Although these deposits are of the appropriate age to naturally preserve and bury archaeological materials, they represent high energy environments associated with stream channels. This is supported by the undifferentiated channel deposits identified by Fugro's geotechnical study as being comprised of sand with gravel. These are large clastic particles associated with high-energy braided channels that reflect erosional conditions not conducive to the preservation of intact archaeological deposits.

The geotechnical reports identified fill material at the surface within the project site extending to depths ranging from approximately 1.5 to 6.5 feet below the ground surface, with sand and gravels associated with undifferentiated channel deposits at greater depths. The presence of fill material suggests the project site has been subject to past disturbance, potentially from the agricultural and gravel mining activities depicted in the historical map and aerial review as well as the development of the existing basins.

Given the degree of previous disturbances within the project site indicated by the presence of fill, as well as the high energy erosional conditions of the underlying channel deposits, the project site has low potential for the presence of buried archaeological deposits.

Field Survey

The topography of the project site is generally level with the exception of the earthen berms surrounding the Ferro and Noble basins (Attachment 1, Figure 3). The Santa Clara River Levee (P-56-153146) is located north of the earthen berm along the Ferro Basin's northern margin (Attachment 1, Figure 4). Survey limitations included thick seasonal grasses and standing water within the Noble Basin (Attachment 1, Figure 5 and Figure 6). An opportunistic survey was conducted to inspect clearings within the vegetation and along the margins of the Noble Basin. The remainder of the project site was clear of obstruction and was systematically surveyed (Attachment 1, Figure 7). Ground surfaces within these areas were partially covered by annual grasses with fair to good (50 to 75 percent) ground surface visibility (Attachment 1, Figure 8). Soils observed within the project site include a grayish brown sandy loam to a brown silty sand. No archaeological resources were identified during the pedestrian survey.

Conclusions and Recommendations

The impact analysis included here is organized based on the cultural resources thresholds included in CEQA Guidelines Appendix G: Environmental Checklist Form:

- a. *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?*
- b. *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?*
- c. *Would the project disturb any human remains, including those interred outside of dedicated cemeteries?*

Threshold A broadly refers to historical resources. To more clearly differentiate between archaeological and built environment resources, analysis under Threshold A is limited to built environment resources. Archaeological resources, including those that may be considered historical resources pursuant to



Section 15064.5 and those that may be considered unique archaeological resources pursuant to Section 21083.2, are considered under Threshold B.

Historical Built Environment Resources (Threshold A)

One built environment resource, the Santa Clara River Levee (P-56-153146), located immediately adjacent to the project site, was identified in the CHRIS record search. The resource was previously evaluated for inclusion in the NRHP and CRHR and was recommended as not eligible for both registers (Smith and Hommerding 2018). An east-west trending segment of the levee is located approximately 150 feet northwest of a portion of the Ferro Basin that would be re-contoured during construction of the proposed project. As such, the resource would not be directly impacted during project construction. Given that the levee was previously recommended CRHR-ineligible and would not be directly impacted by project construction, the project would result in **no impacts to historical resources** pursuant to CEQA.

Historical and Unique Archaeological Resources (Threshold B)

No archaeological resources were identified as a result of the CHRIS records search and field survey. The background and archival research suggests the project site has low potential to contain intact archaeological deposits due to past disturbances, which is indicated by the presence of fill material and sand and gravel (undifferentiated channel deposits) underlying the fill material. These materials are indicative of a dynamic braided river environment, which is not conducive to the preservation of archaeological deposits. As such, the potential for encountering intact archaeological deposits during project construction is low. Although there is low potential for encountering subsurface archaeological deposits, in the unlikely event archaeological materials are encountered during project construction, Rincon recommends the following mitigation measure be implemented. With the implementation of this measure, the project would have a **less than significant impact with mitigation incorporated** for archaeological resources that may qualify as historical resources or unique archaeological resource pursuant to CEQA.

Recommended Measures

Unanticipated Discovery of Cultural Resources

In the event archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 50 feet of the find shall halt and the construction contractor shall immediately contact United's project manager. United shall contract an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) to evaluate the resource. If the qualified archaeologist determines the resource to be prehistoric, then a Native American representative shall also be contacted to participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the CRHR and significant impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of the California Code of Regulations (CCR) Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. United shall review and approve the treatment



plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the California Historical Resources Information System, per CCR Guidelines Section 15126.4(b)(3)(C).

Human Remains (Threshold C)

No human remains are known to be present within the project site. However, the discovery of human remains is always a possibility during ground disturbing activities. If human remains are unexpectedly found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be of Native American origin, the Coroner would notify the Native American Heritage Commission, who would determine and notify a most likely descendant (MLD). The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, United must reinter the remains in an area of the property secure from subsequent disturbance. With adherence to existing regulations, Rincon recommends a finding of **less than significant impact** to human remains under CEQA.

Should you have any questions concerning this study, please do not hesitate to contact Rincon Senior Archaeologist Michael Vader at 619-241-9238 or email at mvader@rinconconsultants.com.

Sincerely,

Rincon Consultants, Inc.

A handwritten signature in blue ink, appearing to read 'Debbie Balam'.

Debbie Balam, BA
Archaeologist

A handwritten signature in black ink, appearing to read 'Michael Vader'.

Michael Vader, BA
Senior Archaeologist/Project Manager

A handwritten signature in black ink, appearing to read 'Christopher A. Duran'.

Christopher A. Duran, MA, RPA
Principal

Attachments

Attachment 1 Figures

Attachment 2 California Historical Resources Information System Records Search

Attachment 3 Native American Heritage Commission Documents



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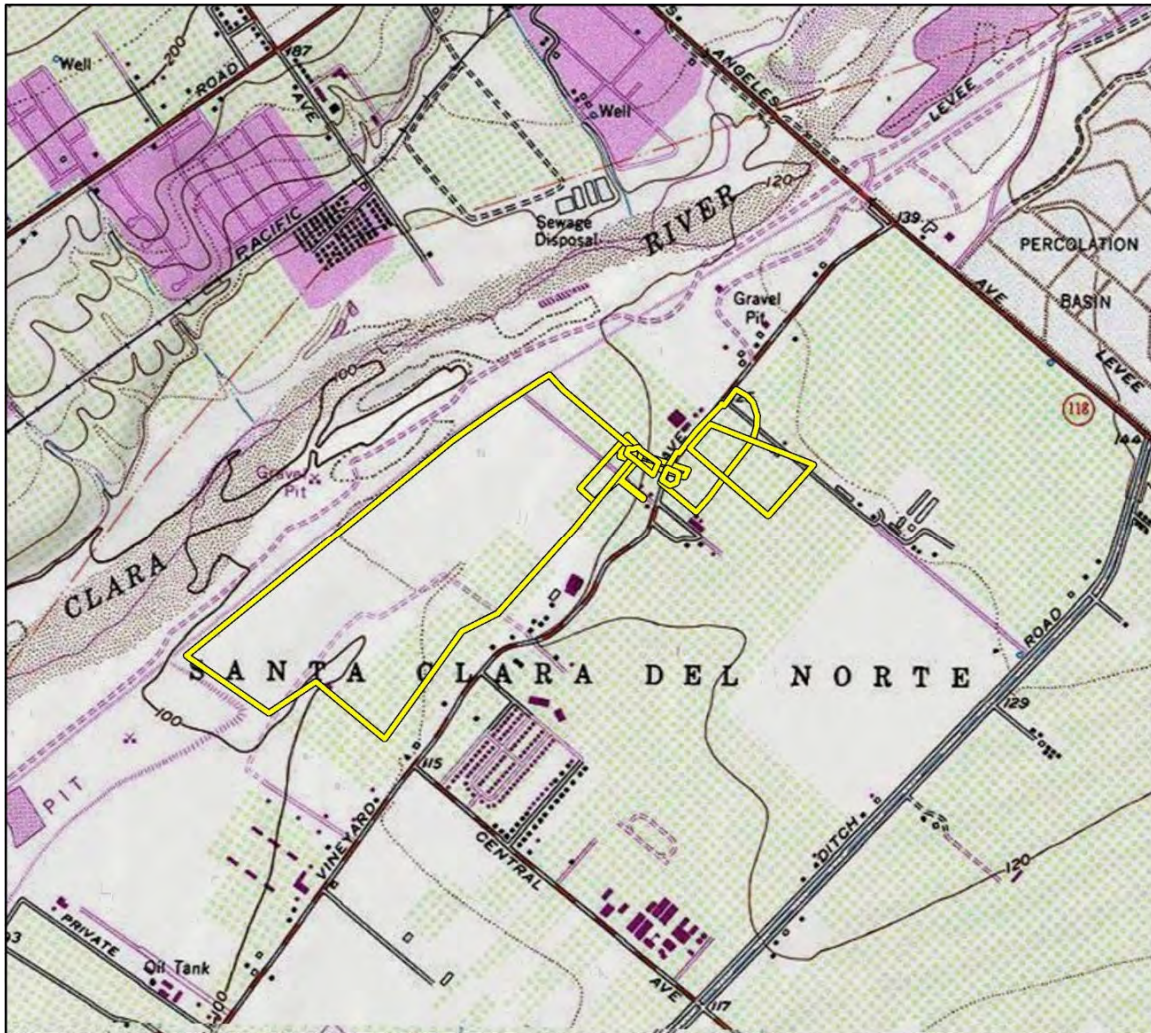
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Attachment 1

Figures

Figure 1 Regional Location Map



Basemap provided by National Geographic Society, Esri and their licensors
© 2024. Saticoy Quadrangle. T02N R22W S11,12,14. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

24-15820 CR
CRFig 1 Proj Locn Map

 Project Location

0 1,000 2,000 Feet

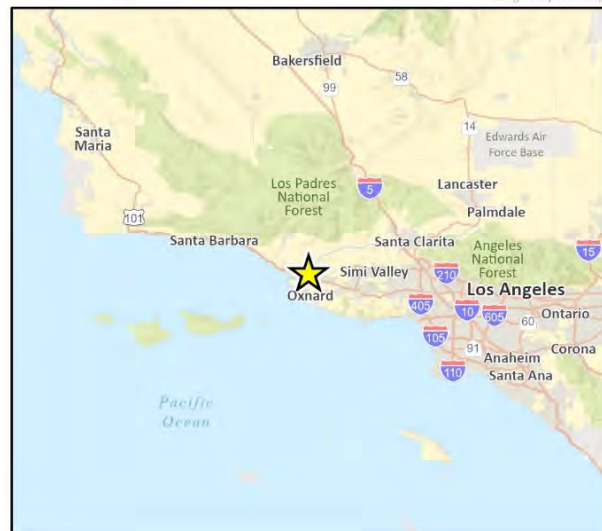


Figure 2 Project Location



Imagery provided by Microsoft Bing and its licensors © 2024.

Fig 2 Project Site Overview

Figure 3 Overview of Sloped Area Along the Northern Portion of the Potential Ferro Basin Contouring Area Looking North



Figure 4 The Santa Clara River Levee Observed from the Western Boundary of the Potential Basin Contouring Area Looking West



Figure 5 Overgrown Vegetation within the Noble Side Access and Contractor Laydown Area Looking North



Figure 6 Overview of the Flooded Noble Barrow Area Looking South



Figure 7 Overview of Exposed Ground Surface within the Ferro Basin Grading Area Looking South



Figure 8 Overview of Exposed Ground Surface within the Ferro Basin Looking North



Attachment 2

California Historical Resources Information System Records Search

CHRIS Information Center Records Search Data Sheet

Project Name:	<u>United Groundwater Recharge Capacity Expansion Project</u>		
Project Number:	<u>24-15820</u>	Date:	<u>April 4, 2024</u>
Information Center:	<u>SCCIC</u>		
Search Radius:	Half Mile: <u> X </u>	One Mile: <u> </u>	Other: <u> </u>
USGS Quadrangle:	<u>Saticoy, CA 7.5-minute</u>		
Public Land Survey System (PLSS):	Township: <u> 2N </u>	Range: <u> 22W </u>	Section: <u> N/A </u>
County:	<u>Ventura</u>		
Previously Recorded Resources	2 within search radius; 1 adjacent to project		

Previous Studies: 16 within search radius; 4 overlap project; 2 adjacent to project

National Register of Historic Places:	Copies:	Y	N
California Register of Historical Resources:	Copies:	Y	N
California Points of Historical Interest:	Copies:	Y	N
California Historical Landmarks List:	Copies:	Y	N
Archaeological Determinations of Eligibility:	Copies:	Y	N
California Historical Resources Inventory:	Copies:	Y	N

Historic Maps:

Notes:

Report List

24-15820 United Groundwater Recharge

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
VN-00044		1974	Clelow, William C. Jr.	Impact Report on the Archaeological Resources at the Santa Clara River Area Proposed Ferro Drill Site		56-000032, 56-000033, 56-000035
VN-00332		1978	Lopez, Robert	An Archaeological Reconnaissance of the Three Proposed Alternatives for the Upgrading of the Saticoy Sanitation District Facilities Ventura County, California	Robert Lopez, Archaeological Consultant	56-000031, 56-000032, 56-000033, 56-000034
VN-00575		1988	Lopez, Robert	An Archaeological Reconnaissance of the Areas Involved in the Proposed Swepi Well Locations and Pipeline Routes Oxnard Plain, Ventura County, California	Robert Lopez, Archaeological Consultant	56-000631, 56-000665, 56-000666
VN-00586		1987	Lopez, Robert	Archaeological Assessment of Rancho Attilo, Saticoy		56-000031, 56-000032, 56-000033, 56-000034
VN-00754		1989	Lopez, Robert	An Archaeological Reconnaissance of the Twenty-three Acres Involved in Tract 4395, City of San Buenaventura, Ventura County, California		
VN-00955		1990	Pence, Robert L.	Archaeological Reconnaissance in the El Rio Area Ventura County	Pence Archaeological Consulting	
VN-00971		1990	Singer, Clay A. and John E. Atwood	Cultural Resources Survey and Impact Assessment for Four Alternative Recycling Station Sites in Ventura County, California	C.A. Singer & Associates, Inc.	56-000666, 56-000918
VN-01018		1980	Callison, Sheila	Cultural Resources Survey Of: Dp-252.	Ventura County	
VN-01072		1991	Atwood, John E.	Supplemental Archaeological Survey for the Bristol Relief Sewer Line.	C.A. Singer & Associates, Inc.	
VN-01172		1992	Brown, Joan C.	Archaeological Monitoring of Trenching for the Calmat Co.	RMW Paleo Associates, Inc.	
VN-01495		1997	Hoffman, Sheila M.	Archaeological Monitoring of Tract 4772 City of San Buenaventura, Ventura County, California		
VN-01741		1999	Maki, Mary K.	Phase I Archaeological Survey and Impact Assessment of 50.2 Acres for the River Bend Ranch Project, Ventura, Ventura County, California	Conejo Archaeological Consultants	
VN-01742			Webb, L.M., Robert Wlodarski, and George Casen	Historic Architectural Survey Report for 07- VEN-118 P.m. 0.5/2.2 07203-004060		56-152244, 56-152245, 56-152755, 56-152757, 56-152758, 56-152759, 56-152760, 56-152761, 56-152762

Report List

24-15820 United Groundwater Recharge

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
VN-01744		1985	Unknown	Historic Property Survey 07-VEN-118, P.m. 0.5/2.2 Vineyard Avenue/ Route 126, Saticoy, Ventura County, California 07203-004060		
VN-01816		1999	Maki, Mary K.	Phase I Archaeological Survey and Impact Assessment of 46 Acres El Rio Site-juvenile Hall Justice Center El Rio, Ventura County, California	Conejo Archaeological Consultants	
VN-01893		2000	Maki, Mary K.	Phase I Archaeological Survey of Five Acres and Approximately 7,000 Linear Feet for the Saticoy Wastewater Treatment Plant Upgrade Project, Saticoy	Conejo Archaeological Consultants	
VN-01925		2000	Maki, Mary K.	Phase I Archaeological Survey of Approximately 15.8 Linear Miles for the El Rio Sewer Project, El Rio, Ventura Co.	Conejo Archaeological Consultants	
VN-01930		1999	Wlodarski, Robert J.	A Phase I Archaeological Study for Six Project Areas Within the Santa Paula Branch Line Recreational Trail Study Area, County of Ventura	Historical, Environmental, Archaeological, Research, Team	
VN-02715		2009	Gonzalez, Matthew and Kyle Garcia	Results of the Cultural Resource Assessment for the Southern California Edison Replacement of Four Deteriorated Pole Nos. 1604543E, 1604637E, 1573814E, and 1573815E; Ventura County and Orange County, California; WO 4605-2301, WO 4805-0548	PCR Services Corporation (PCR)	
VN-02796		2009	Schmidt, June A.	Moorpark-Shelline-Valdez 66kV New Pole Installation/ Old Pole Removal and WO 6039-4800; 9-4857 Deteriorated Pole Replacements, Various Distribution Circuits, Ventura County, California	Compass Rose Archaeological, Inc.	56-000031, 56-000032, 56-000033, 56-000034, 56-000201, 56-000241, 56-152746, 56-152747, 56-152748
VN-02894		2010	Schmidt, James	Archaeological Letter Report: Santa Clara-Gonzales and Santa Clara-Levy-Progen 66kV Deteriorated Pole Replacement Project (WO 4605-2344; 800372670), Ventura County, California	Compass Rose Archaeological, Inc.	56-000031, 56-000032, 56-000034, 56-000545, 56-001392, 56-152748, 56-152843
VN-03287	Paleo -	2017	Szromba, Meagan, Kyle Brudvik, and Christopher Duran	UWCD Recycled Water Pipelines Project, Cultural and Paleontological Resources Technical Study	Rincon Consultants, Inc.	

Resource List

24-15820 United Groundwater Recharge

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-56-152824		Resource Name - United Concrete Pipe Co; Other - Famlon Pipe & Supply Co	Building	Historic	HP06	1986 (George Casen, Caltrans)	
P-56-153146		Resource Name - SCR-1; Resource Name - Santa Clara River Levee	Structure	Historic	HP21	2018 (Timothy Smith, Mead & Hunt)	

Attachment 3

Native American Heritage Commission Documents

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd, Suite 100

Sacramento, CA 95814

(916) 373-3710

(916) 373-5471 – Fax

nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: 24-15820 United Groundwater Recharge Capacity Expansion Project

County: Ventura

USGS Quadrangle Name: Saticoy, CA 7.5-minute topographic quadrangle

Township: Range: Section(s): Township 2 North; Range 22 West; Unsectioned

Company/Firm/Agency: Rincon Consultants, Inc.

Contact Person: Michael Vader

Street Address: 8825 Aero Drive

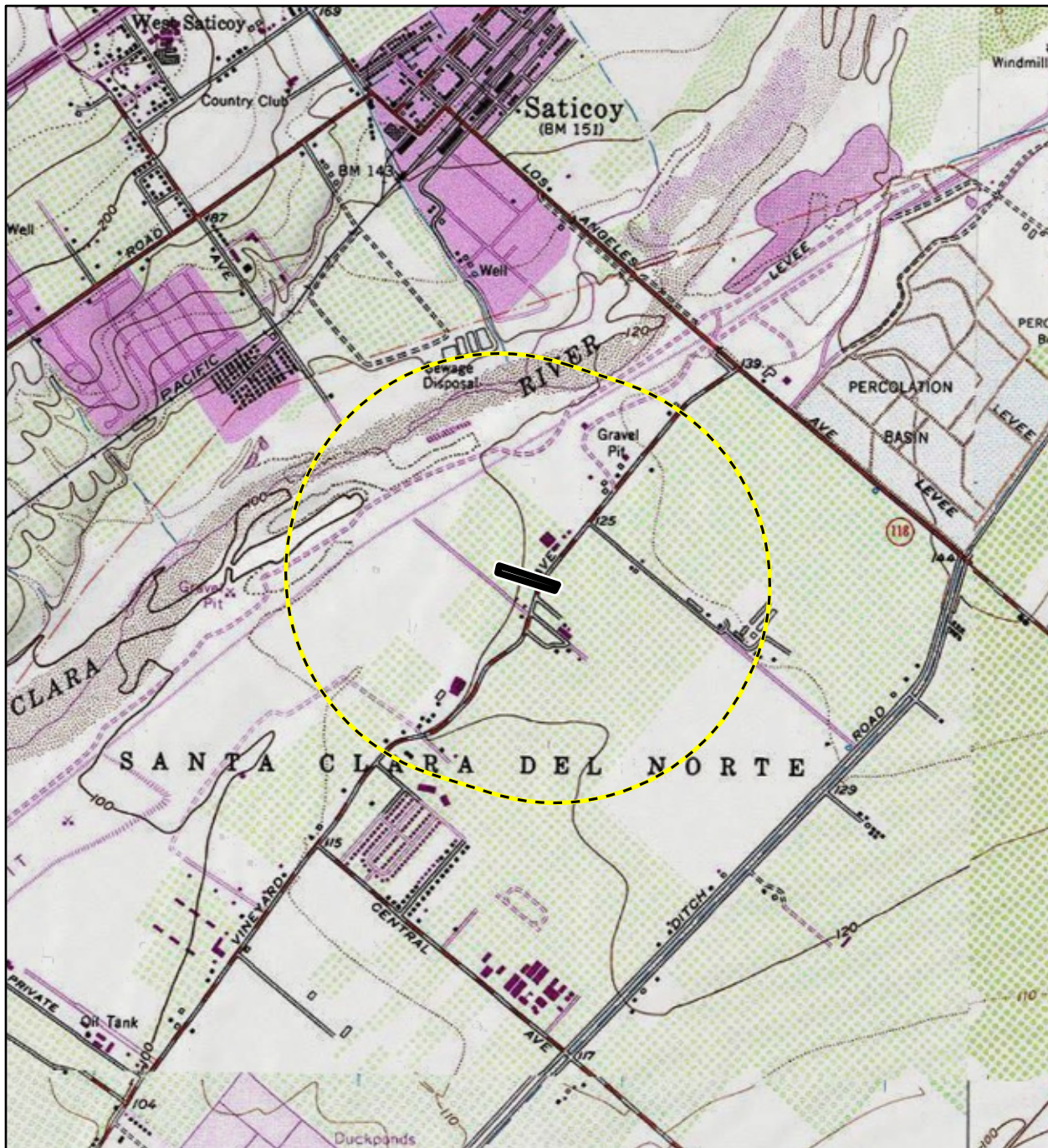
City: San Diego

Zip: 92123

Phone: 619-241-9238

Email: mvader@rinconconsultants.com

Project Description: The United Water Conservation District proposes to construct an undercrossing to connect the Ferro Spreading Basin to the Noble Spreading Basin, which would enable the conveyance of water to the Ferro Basin for artificial groundwater recharge. The project would include construction of an undercrossing at State Route 232 (Vineyard Avenue) in unincorporated Ventura County, and installation of two reinforced concrete pipelines, 60 inches in diameter and approximately 550 feet in length, to connect the Noble Spreading Basin (located east of Vineyard Avenue) to the Ferro Spreading Basin (located west of Vineyard Avenue). The attached map depicts the project location.



Imagery provided by National Geographic Society, Esri and its licensors © 2024. Saticoy Quadrangle. T02N R22W S11-14. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

-  Half-Mile Buffer
-  Area of Potential Effects



0 1,000 2,000 Feet

0 250 500 Meters

1:24,000

Records Search Map





NATIVE AMERICAN HERITAGE COMMISSION

March 22, 2024

Michael Vader
Rincon Consultants, Inc.

Via Email to: mvader@rinconconsultants.com

Re: 24-15820 United Groundwater Recharge Capacity Expansion Project, Ventura County

To Whom It May Concern:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cody.Campagne@nahc.ca.gov.

Sincerely,

Cody Campagne

Cody Campagne
Cultural Resources Analyst

Attachment

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki,
Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
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nahc@nahc.ca.gov
NAHC.ca.gov

Appendix D

RCNM Modeling Outputs

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/7/2024

Case Description: United Groundwater Recharge Project - Mobilization

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Equipment	Impact	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	No	40		81.7	50	0

Equipment		Results						
		Calculated (dBA)		Noise Limits (dBA)				
Dozer		*Lmax	Leq	Day	Evening		Night	
				Lmax	Leq	Lmax	Leq	Lmax
		81.7	77.7	N/A	N/A	N/A	N/A	N/A
	Total	81.7	77.7	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/13/2024

Case Description: United Groundwater Recharge Project - Mobilization

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Device	Impact	Usage(%)	Equipment			
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No		20		79.1	50	0

Equipment		Results						
		Calculated (dBA)		Noise Limits (dBA)				
		*Lmax	Leq	Day	Leq	Evening	Leq	Night
				Lmax		Lmax		Lmax
Drill Rig Truck		79.1	72.2	N/A	N/A	N/A	N/A	N/A
	Total	79.1	72.2	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/13/2024

Case Description: United Groundwater Recharge Project - Open-cut Trenching

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Impact	Device	Usage(%)	Equipment		
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Crane	No		16		80.6	50
Excavator	No		40		80.7	50
Excavator	No		40		80.7	50

Equipment	Results				Noise Limits (dBA)			
	Calculated (dBA)		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.7	80.5	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/7/2024

Case Description: United Groundwater Recharge Project - Noble Basin

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	50	0
Front End Loader	No	40		79.1	50	0
Scraper	No	40		83.6	50	0

Equipment	Results				Noise Limits (dBA)		
	Calculated (dBA)		Day		Evening		Night
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Total	83.6	82.6	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/7/2024

Case Description: United Groundwater Recharge Project - Gates

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Impact	Device	Usage(%)	Equipment		
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Crane	No		16		80.6	50
Front End Loader	No		40		79.1	50
Generator (<25KVA, VMS signs)	No		50		72.8	50
						Estimated Shielding (dBA)

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Generator (<25KVA, VMS signs)	72.8	69.8	N/A	N/A	N/A	N/A	N/A
Total	80.6	77.8	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/7/2024

Case Description: United Groundwater Recharge Project - Trash Racks

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50	0
Front End Loader	No	40		79.1	50	0
Generator	No	50		80.6	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A
Generator	80.6	77.6	N/A	N/A	N/A	N/A	N/A
Total	80.6	80.4	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/13/2024

Case Description: United Groundwater Recharge Project - Start of Project Operation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	60	60	60

Description	Device	Impact	Equipment			
			Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Crane	No		16		80.6	50
Crane	No		16		80.6	50
Excavator	No		40		80.7	50
Excavator	No		40		80.7	50
Drill Rig Truck	No		20		79.1	50

Equipment	Results				Noise Limits (dBA)			
	Calculated (dBA)		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A	
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A	
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	
Drill Rig Truck	79.1	72.2	N/A	N/A	N/A	N/A	N/A	
Total	80.7	81.7	N/A	N/A	N/A	N/A	N/A	

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/7/2024

Case Description: United Groundwater Recharge Project - Ferro Basin

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Residential	Residential	60	60	60

Equipment

	Impact	Spec	Actual	Receptor	Estimated
		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(feet)	(dBA)
Scraper	No	40	83.6	50	0
Scraper	No	40	83.6	50	0
Scraper	No	40	83.6	50	0
Scraper	No	40	83.6	50	0
Scraper	No	40	83.6	50	0

Results

	Calculated (dBA)			Noise Limits (dBA)			
			Day	Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Total	83.6	86.6	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/23/2024
Case Description: United Groundwater Recharge Project - Nighttime

		Baselines (dBA)			---- Receptor #1 ----		
Description	Land Use	Daytime	Evening	Night			
Residential	Residential	65	65	65			
					Equipment		
		Impact		Spec	Actual	Receptor	Estimated
Description		Device	Usage(%)	Lmax	Lmax	Distance	Shielding
Auger Drill Rig		No	20	(dBA)	(dBA)	(feet)	(dBA)
					84.4	50	0
					Results		
					Calculated (dBA)		
		*Lmax	Leq				
Equipment		84.4	77.4				
Auger Drill Rig							
	Total	84.4	77.4				
					*Calculated Lmax is the Loudest value.		

ATTACHMENT C



Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Responses to Comments and Errata to the Draft IS-MND
State Clearinghouse No.
2024071176

prepared by

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

prepared with the assistance of

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, California 93003

September 2024

Table of Contents

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Appendices

Appendix A	Comment Letters

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Introduction

The Groundwater Recharge Capacity Expansion Project – Ferro Recharge (project) Initial Study-Mitigated Negative Declaration (IS-MND) was circulated for a 30-day public review period that began on July 30, 2024, and concluded on August 29, 2024. The United Water Conservation District (United) received five comment letters on the Draft IS-MND. In summary, the comments received on the Draft IS-MND did not raise new information about the project’s environmental impacts or provide information indicating the project would result in new environmental impacts or impacts substantially greater in severity than disclosed in the Draft IS-MND. The California Environmental Quality Act (CEQA) does not require formal responses to comments on an IS-MND, only that the lead agency consider the comments received [CEQA Guidelines §15074(b)]. Nevertheless, responses to the comments are included in this document for informational purposes.

Responses to Comments on the Draft IS-MND

This section includes comments received during the circulation of the Draft IS-MND prepared for the project.

The Draft IS-MND was circulated for a 30-day public review period that began on July 30, 2024, and ended on August 29, 2024. Five comment letters were received from the California Department of Fish and Wildlife (CDFW), the California Department of Transportation (Caltrans), Ventura County Air Pollution Control District (VCAPCD), Ventura County Environmental Health Division (VCEHD), and Ventura County Public Works Watershed Planning and Permits Division.

Comment letters submitted on the Draft IS-MND have been annotated to identify individual comments, and are included in Appendix A. The responses to each comment are provided in the table below. Each row identifies first the number of the comment letter, and then the number assigned to each issue (Row 1.1, for example, indicates that the response is for the first issue raised in comment Letter 1). Where a comment results in a change to the text of the Draft IS-MND, a notation is made in the response indicating that the text is revised in the Revisions to Draft IS-MND column. Changes in text are signified by strikeouts (~~strikeouts~~) where text is removed and by underlined font (underlined font) where text is added.

Textual revisions to the Draft IS-MND amplify, correct, supplement, or clarify information in the Draft IS-MND, or replace mitigation measures with equal or more effective measures. These revisions do not substantively affect the level of impact nor the conclusions presented. Therefore, pursuant to *CEQA Guidelines* Section 15073.5(c), recirculation of the Draft IS-MND is not warranted.

Comment Number	Summary of Comment	Response to Comment	Revisions to Draft IS-MND
Letter 1: California Department of Fish and Wildlife			
1.1	This comment is introductory and summarizes CDFW's regulatory authority, the project description, and the project setting.	In the project setting, the commenter states surface water in the Ferro Basin is currently controlled by United. This is incorrect; United does not currently have an infrastructure connection to the Ferro Basin and surface water occurs as a result of rainfall. This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No further response is required.	None required.
1.2	The commenter states the project would increase the amount of water diverted from the Santa Clara River, which may result in the loss of streams and associated watershed function and biological diversity downstream of the Freeman Diversion in addition to potentially affecting groundwater-dependent ecosystems due to changes in groundwater elevation.	As described in Section 7, <i>Description of Project</i> , on Pages 6 and 7 of the Draft IS-MND, the project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. The purpose of the project is to recharge groundwater during wet conditions when elevated surface water flows are available, and thus would not result in substantial reduction of flows or groundwater elevation downstream of the Freeman Diversion. Accordingly, no changes to the Draft IS-MND are required.	None required.
1.3	The commenter provides three mitigation measures to reduce potential impacts to groundwater-dependent ecosystems. Mitigation Measure #1 involves consultation with CDFW to determine the need for a Lake and Streambed Alteration Agreement. Mitigation Measure #2 requires implementation of additional mitigation requirements from the Lake and Streambed Alteration Agreement. Mitigation Measure #3 recommends habitat be replaced at a 3:1 ratio on-site if vegetation is impacted within the Santa Clara River, in addition to implementation	The mitigation measures are not necessary for the proposed project as the project would not involve work in or immediately adjacent to the Santa Clara River and would not involve removal of riparian habitat or vegetation. In addition, indirect, off-site impacts would not occur as the project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available, and thus would not result in substantial reduction of flows or groundwater elevation downstream of the Freeman Diversion. The revisions to the right have been made to the Draft IS-	Section 7, <i>Description of Project</i> , page 7 of the Draft IS-MND: The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Section 4, <i>Biological Resources</i> , page 31 of the Draft IS-MND: The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara

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	of an on-site Habitat Mitigation and Monitoring Plan.	MND to clarify that the project would not modify any of United's existing water rights. The project site, including the Ferro Basin and Noble Basin, is outside of CDFW's jurisdiction under Fish and Game Code Section 1600 et. seq. and a Lake and Streambed Alteration Agreement would not be required. Therefore, Mitigation Measures #1 and #2 are not required. Additionally, the project would not involve disturbance or vegetation removal within the Santa Clara River. Therefore, Mitigation Measure #3 is not required.	River beyond existing permitted operations. Therefore, no indirect impacts to these species would occur. Section 4, <i>Biological Resources</i>, page 32 of the Draft IS-MND: As described above under Item 4(a), the proposed project would not involve alteration or modification to the Santa Clara River. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Section 4, <i>Biological Resources</i>, page 33 of the Draft IS-MND: The Santa Clara River provides passage for wildlife movement in the surrounding region; however, the project would not physically modify the river nor modify United's existing water ~~diversion~~ rights or involve diverting additional water from the Santa Clara River beyond existing permitted operations. Section 10, <i>Hydrology and Water Quality</i>, page 56 of the Draft IS-MND: The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Section 10, <i>Hydrology and Water Quality</i>, page 59 of the Draft IS-MND: Additionally, the project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, the project would not conflict with or obstruct implementation of a sustainable groundwater management plan.

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			Section 14, <i>Population and Housing</i>, page 71 of the Draft IS-MND: While the project would result in a minor increase in operations and maintenance trips to the Noble Basin and Ferro Basin during wet years, no employment increases would occur due to these trips. Accordingly, the project would not directly result in population growth. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations, and therefore would not indirectly result in population growth.
1.4	The commenter recommends United provide an in-stream flow analysis and evaluation of potential impacts on biological resources in the Santa Clara River as part of the final environmental document. The commenter provides minimum requirements for the analysis, including defining upstream and downstream impacts; evaluating change in water depth, wetted perimeter, and velocity of the Santa Clara River; use of a 2-dimensional hydraulic model; map of potential changes to channel hydraulics overlain on a habitat map; a discussion of impact to biological resources in relation to hydrological changes, and; annual assessment of habitat health.	As described in Section 7, <i>Description of Project</i>, on Pages 6 and 7 of the Draft IS-MND, the project would not modify United's existing water rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Pursuant to United's California Division of Water Rights License for Diversion and Use of Water (License No. 10173) and Permit for Diversion and Use of Water (Permit No. 18908), United is authorized to divert up to 144,630 acre-feet per year from the Santa Clara River. However, since 2016, United has been operating at lower diversion rates in accordance with the National Marine Fisheries Service 2008 Final Biological Opinion. The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available, and the project would not result in additional diversions beyond those permitted to occur. Therefore, the project would not impact flows in the Santa Clara River and an in-stream flows analysis is not required.	None required.

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1.5	The commenter states the project may impact coast horned lizard and two-striped garter snake through project construction resulting in direct injury or mortality of these species or resulting in a loss of habitat for these species.	As discussed under <i>Construction General Best Management Practices</i> on page 9 of the Draft IS-MND, United would implement pre-activity surveys. If wildlife is detected, a qualified biologist would temporarily stop activities until the animal leaves the area. If the animal does not leave the area on its own, a qualified biologist would move the animal out of harm's way. In the case of special status and federal or state-listed species, United would consult with the appropriate agency in advance, and any relocation would be carried out in accordance with regulatory authorizations issued under the Endangered Species Act and/or California Endangered Species Act, Fish and Game Code §§ 1002, 1002.5, 1003, and/or Cal. Code Regs., tit. 14, § 650. The revisions to the right have been made to the Draft IS-MND under the Construction General Best Management Practices subheading in Section 7, Description of Project. The commenter further states loss of habitat is expected for these species. United respectfully disagrees with this statement. The Ferro Basin, and the project site in general, is isolated from contiguous habitat for coast horned lizard and two-striped garter snake, and the only habitat opportunities provided for these species on the project site are temporary foraging forays when ruderal vegetation is present. However, these species are expected to only be present infrequently and at low abundance. The Ferro Basin does not provide consistent habitat to support a self-sustaining population of either species, nor does the roadside adjacent to the project site. As a result, mitigation for loss of habitat is not warranted for these species.	Section 7, <i>Description of Project</i>, page 9 of the Draft IS-MND: Before starting or moving construction vehicles at the beginning of each day, ~~operators would a sweep~~ <u>shall be conducted, including</u> inspection under all vehicles to avoid impacts to any wildlife that may have sought refuge on or under equipment. All large building materials and pieces with crevices where wildlife could potentially hide would also be inspected before moving. If wildlife is detected, a qualified biologist would temporarily stop activities until the animal leaves the area. If the animal does not leave the area on its own, a qualified biologist would move the animal out of harm's way. In the case of federal or state-listed species, relocation would be carried out in accordance with regulatory authorizations issued under the Endangered Species Act and/or California Endangered Species Act, Fish and Game Code §§ 1002, 1002.5, 1003, and/or Cal. Code Regs., tit. 14, § 650. <u>United would consult with CDFW prior to relocation of any special status or listed species.</u>

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1.6	The commenter provides four mitigation measures to reduce potential impacts to coast horned lizard and two-striped garter snake. Mitigation Measure #1 involves the use of a biological monitor to move wildlife from work area and monitor the site during construction activities. Mitigation Measure #2 involves retaining a qualified biologist with appropriate handling permits to capture, possess, and relocate wildlife to avoid harm during construction. Mitigation Measure #3 involves preparation of a Wildlife Relocation Plan. Mitigation Measure #4 involves reporting to CDFW in the event a species of special concern is harmed during relocation, or a dead or injured animal is found during construction.	The BMPs, provided on page 9 of the Draft IS-MND, and as revised in Response 1.5, address the actions in the commenter's recommended mitigation measures. As shown in Response 1.5, the BMPs would require the use of a qualified biologist to inspect construction areas for wildlife, halt work until the animal leaves the area, or move the animal from the area, and CDFW will be consulted in advance of relocation of any special status or listed species. These actions cover the commenter's recommended Mitigation Measures #1, #2, #3, and #4. No changes to the Draft IS-MND are required.	None required.
1.7	The commenter states the project may impact burrowing owl due to potential suitable habitat at the open areas and low-vegetation areas within and surrounding the project site. The commenter states there are multiple records of burrowing owls within five miles of the project site.	United agrees burrowing owl have been observed within five miles of the project site in previous years. During the January 2024 surveys conducted for the project, no burrowing owl, burrowing owl sign, or small mammal burrows suitable for burrowing owl nesting were observed. The area around the project site is unsuitable for the species, given the low level of cover, low prey availability, and ongoing activities such as agricultural and commercial uses and regular vehicle traffic. California ground squirrels are not abundant around the project site, and no opportunity has been identified for burrowing owls to nest on or near the project site. Mitigation Measure BIO-1 has been revised, as shown on the right, to ensure burrowing owls are included in the nesting bird pre-construction survey, in the unlikely event they occupy the site prior to construction. These revisions incorporate	Section 4, <i>Biological Resources</i> , page 31 of the Draft IS-MND: <i>BIO-1 Nesting Bird Pre-Construction Survey and Avoidance</i> To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 7 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, <u>as well as areas suitable for ground nesting species</u>), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat

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		recommendations provided by the commenter in Comment 1.9. Additionally, implementation of the Construction General BMPs on page 9 of the Draft IS-MND (as revised under Response 1.5) would require pre-activity surveys performed by a qualified biologist to determine if any wildlife, including burrowing owl, or their sign are present in the work area. As revised, United believes that the included BMPs and mitigation measure are sufficient to protect burrowing owl during construction, should they occupy the site prior to construction.	is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. <u>If burrowing owls or signs of their activity are present in the project site, United shall consult with CDFW.</u> If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging. An appropriate avoidance buffer ranging in size from 25 to 50 feet for passerines, and up to 300 feet for raptors, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.

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1.8	The commenter provides two mitigation measures to reduce potential impacts to burrowing owl. Mitigation Measure #1 involves burrowing owl protocol surveys prior to construction at the project site and within a 500-foot buffer of the project site. If burrowing owl is found, Mitigation Measure #1 requires preparation of an Impact Assessment and Burrowing Owl Mitigation Plan to be approved by CDFW. Mitigation Measure #2 requires compensatory mitigation of burrowing owl habitat at a 2:1 ratio to ensure no net loss of burrowing owl habitat.	United appreciates the recommendations provided by the commenter; however, the Construction BMPs and Mitigation Measure BIO-1, as revised in Response 1.7, are sufficient to protect burrowing owl during construction. As noted in Response 1.7, the area in and around the project site is not suitable to sustain a population of burrowing owl and does not provide nesting opportunities. United respectfully disagrees that the project site or adjacent area provides burrowing habitat and believes protocol surveys and an impact avoidance and mitigation plan are unnecessary. Pre-activity surveys performed by a qualified biologist, as outlined in the Construction BMPs, would identify if burrowing owl are present and provide an opportunity to avoid impacts by adjusting the work location or stopping work to avoid individuals. Mitigation Measure BIO-1 has been revised to include work stoppage in the event of a burrowing owl observation on or adjacent to the project site. Mitigation Measure BIO-1 also requires United to consult with CDFW if burrowing owl are observed within the project site. Accordingly, the Construction BMPs and Mitigation Measure BIO-1 as revised are sufficient to avoid impacts to burrowing owl.	None required.
1.9	The commenter recommends Mitigation Measure BIO-1 be revised to change the duration of nesting bird season, including ground nesting species in the mitigation measure, and increase avoidance buffers. The commenter recommends rodenticides and second-generation anticoagulant rodenticides be prohibited during the lifetime of the project. The commenter also recommends any fencing used during and after project construction should be	United appreciates the recommendations provided by the commenter. For consistency with existing and current CDFW permits, United is proposing to keep the start date for nesting bird season as February 1. Additionally, the avoidance buffers currently included in Mitigation Measure BIO-1 (25 to 50 feet for passerines, and up to 300 feet for raptors) are sufficient to avoid impacts to nesting birds. Mitigation Measure BIO-1 has been revised to indicate a 300 foot buffer for listed species as well as raptors, and the Construction BMPs have been revised to prohibit use of rodenticides.	Section 4, <i>Biological Resources</i>, page 31 of the Draft IS-MND: <i>BIO-1 Nesting Bird Pre-Construction Survey and Avoidance</i> To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 7 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus

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	constructed with materials that are not harmful to wildlife.	Mitigation Measure BIO-1 has been revised, as shown on the right, to indicate a 300 foot buffer for listed species as well as raptors, and to incorporate the commenter's recommendations for fencing material. Additionally, the Construction BMPs on page 9 of the Draft IS-MND have been revised to include the commenter's recommendation regarding rodenticides.	groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, <u>as well as areas suitable for ground nesting species</u>), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. <u>If burrowing owls or signs of their activity are present in the project site, United shall consult with CDFW.</u> If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging <u>that is not harmful to wildlife</u>. An appropriate avoidance buffer ranging in size from 25 to 50 feet for passerines, and up to 300 feet for raptors <u>and listed species</u>, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the

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			discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary. Section 7, <i>Description of Project</i>, page 9 of the Draft IS-MND: <i>Construction General Best Management Practices</i> The project would incorporate the following general best management practices (BMPs) to minimize or avoid potential impacts to biological resources within the project site: ▪ Project-related vehicles would observe a five-mile-per-hour speed limit within the unpaved limits of construction. ▪ All open trenches would be fenced and sloped to prevent entrapment of wildlife species. ▪ All hollow posts and pipes would be capped, and metal fence stakes would be plugged with bolts or other plugging materials to prevent wildlife entrapment and mortality. ▪ If construction lighting is required during construction hours, lighting would be shielded and downcast to avoid potential impacts to wildlife migration. ▪ No deliberate feeding of wildlife would be allowed. ▪ No pets would be allowed on the project site. ▪ Before starting or moving construction vehicles at the beginning of each day, ~~operators would~~ <u>a sweep shall be conducted, including inspection</u> under all vehicles to avoid impacts to any wildlife that may have sought refuge on or under equipment. All large building materials and pieces with crevices where wildlife could potentially hide would also be

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			inspected before moving. If wildlife is detected, a qualified biologist would temporarily stop activities until the animal leaves the area. If the animal does not leave the area on its own, a qualified biologist would move the animal out of harm's way. In the case of federal or state-listed species, relocation should be carried out in accordance with regulatory authorizations issued under the Endangered Species Act and/or California Endangered Species Act, Fish and Game Code §§ 1002, 1002.5, 1003, and/or Cal. Code Regs., tit. 14, § 650. <u>United would consult with CDFW prior to relocation of an special status or listed species.</u> ▪ <u>Rodenticides and second-generation anticoagulant rodenticides would be prohibited.</u>
1.10	The commenter recommends United adopts the mitigation measures and recommendations made throughout the comment letter into the MND. The commenter provides a summary of suggested mitigation measures and recommendations in the form of a draft Mitigation Monitoring and Reporting Program.	Please see Responses 1.5 through 1.8. As discussed therein, United has incorporated the project appropriate revisions and recommendations provided by the commenter.	None required.
1.11	The commenter requests United reports any special-status species and natural communities detected during project surveys to the California Natural Diversity Database.	Information regarding special-status species and natural communities detected during project surveys will be uploaded to the California Natural Diversity Database.	None required.

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1.12	The commenter states environmental document filing fees are necessary and can be paid upon filing the Notice of Determination for the project.	All necessary environmental filing fees will be paid in accordance with Public Resources Code Section 21089.	None required.
1.13	This comment concludes the letter.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
Letter 2: California Department of Transportation			
2.1	This comment is introductory and summarizes the project.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
2.2	The commenter encourages United to enhance pedestrian and bicyclist amenities around the project area, connecting them to community destinations and reducing traffic-related fatalities. The commenter provides examples of amenities such as Class IV bikeways, wide sidewalks, and visual indicators such as warning signage.	As stated in Environmental Checklist Section 17, <i>Transportation</i> , of the Draft IS-MND project would not involve the construction of new roads or reconfiguration of any roadways or intersections that could result in a substantial increase in traffic hazards. During construction, staging and worker parking would occur in designated areas in the project alignment outside of Vineyard Avenue. No road closures would be required as a result of the project. Upon the completion of construction, the pipeline would be located underground and thus would not substantially increase traffic hazards. Therefore, impacts related to substantially increasing transportation hazards would be less than significant. As such, installation of pedestrian and bicyclist amenities is outside the scope of this project. No changes to the Draft IS-MND are warranted as a result of this comment.	None required.
2.3	The commenter states an encroachment permit is required for work performed within the State right-of-way, and requests United submit a construction traffic control plan if construction traffic is expected to cause issues on State facilities. The commenter states a permit	Regarding the encroachment permit, as stated in Initial Study Section 8, Other Public Agencies Whose Approval is Required, of the Draft IS-MND, United would be required to obtain a Caltrans Utility Encroachment Permit for trenchless pipeline installation within the Vineyard Avenue right-of-way. United would implement necessary traffic controls in	None required.

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	is required for oversized transport vehicles on State Highways and recommends limiting construction traffic to off-peak commute hours. In addition, the commenter recommends United conduct a Traffic Impact Study that analyzes construction traffic impacts, intersection safety, or queuing on state facilities in the vicinity of the proposed project.	accordance with the required Utility Encroachment Permit which would facilitate traffic management during construction. It is not currently anticipated oversized vehicles would be required during construction. In the event project construction requires the transportation of heavy construction equipment or the use of oversized-transport vehicles on state highways, United’s construction contractor would obtain the required permit and trips during peak commute hours would be limited to the extent feasible. Regarding the Traffic Impact Study, as stated in Environmental Checklist Section 17, Transportation, of the Draft IS-MND, construction would not require closure of Vineyard Avenue because the entry and exit pits would be located outside of the Vineyard Avenue right-of-way. United would be required to implement traffic controls in accordance with the required Caltrans Utility Encroachment Permit which would minimize potential construction traffic related impacts. The project would not involve the construction of new roads or reconfiguration of any roadways or intersections that could result in a substantial increase in traffic hazards. During construction, staging and worker parking would occur in designated areas outside of Vineyard Avenue. During operation, the project would not require road closures or otherwise substantially impact transit, roadway, bicycle, or pedestrian facilities. Operation of the project would result in a minor increase in vehicle trips compared to existing conditions, as United staff visits the Noble Basin daily during wet years and would subsequently visit the Ferro Basin in the same trip. Accordingly, transportation impacts on state facilities such as Vineyard Avenue would be less than significant, and no further study is needed.	

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		Based on the above responses, no changes to the Draft IS-MND are warranted as a result of this comment.	
Letter 3: Ventura County Air Pollution Control District			
3.1	This comment is introductory and summarizes the project.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
3.2	The commenter states VCAPCD could not locate the language of Mitigation Measure AQ-1 in the Draft IS-MND and could not verify if the Tier 4 Final requirement is incorporated into Mitigation Measure AQ-1.	Mitigation Measure AQ-1 is located on Page 24 of the Draft IS-MND. As described therein, a minimum of two of the five scrapers shall be equipped with United States Environmental Protection Agency (USEPA) Tier 4 Final or better diesel engines, to the extent feasible. If the contractor determines equipment with the required tier or fuel type is not reasonably available, United shall require the contractor to utilize a maximum of three scrapers during Ferro Basin grading. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
3.3	The commenter states VCAPCD recommends adding the Tier 4 Final requirement and dust BMPs as a standard additional approval for building or grading permit, for enforceability purposes. The commenter requests that the Draft IS-MND discloses how these provisions will be enforced.	The Tier 4 Final requirement will be enforced through Mitigation Measure AQ-1, located on Page 24 of the Draft IS-MND. As described therein, construction equipment used to grade the Ferro Basin must be designated on construction plans and provided to United for review and approval prior to the start of construction. Mitigation Measure AQ-1 will be within the Mitigation Monitoring and Reporting Program and enforced by United. As described in Initial Study Section 7, Project Description, on Pages 9 and 10 of the Draft IS-MND, United would enforce VCAPCD Rule 55 regulations as a BMP to minimize fugitive dust. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
3.4	This comment concludes the letter.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.

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Letter 4: Ventura County Environmental Health Division			
4.1	This comment is introductory and summarizes the project.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
4.2	The commenter states the recharge basin may impact surrounding commercial and residential uses ability to obtain permits to expand the use and/or development of their property due to the inability to meet the 100-foot setback to the groundwater recharge basin or may be required to install an alternate on-site wastewater treatment system. The commenter states new geotechnical and soils reports would be required for applicants proposing to expand the use and/or development of their property as the groundwater recharge basin may have the potential to increase the water table in the area. The commenter states the recharge basin will be considered a lake and therefore require a minimum 150-foot setback between seepage pits and lakes. The commenter provides parcels which may be affected by the project.	Pursuant to CEQA Guidelines Section 15145, if a Lead Agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact. Based on the County's list of Recently Approved and Pending Projects evaluated as part of the Draft IS-MND, no recently proposed or approved projects are adjacent to the Ferro Basin. It cannot be determined if or when a property owner adjacent to the Ferro Basin would submit an application for a permit to expand the use and/or development of their property. Because it is unknown if future expansion of surrounding properties would occur, future expansion of properties surrounding Ferro Basin would be considered speculative. Therefore, pursuant to CEQA Guidelines Section 15145, the project's impact on future expansion of surrounding properties is not discussed in the Draft IS-MND. Additionally, the proposed project would not result in a substantial change in existing conditions such that the development of adjacent parcels would be affected. The Ferro Basin currently collects and percolates rainfall. The proposed project would connect the Ferro Basin to United's infrastructure to allow for additional recharge with diverted surface water. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.

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4.3	The commenter states wastewater during construction would be collected via portable restroom facilities and this septage must be removed by a VCEHD permitted pumper truck and must be disposed of properly at an approved septage disposal facility.	United and its contractors would adhere to all applicable VCEHD requirements, including use of a permitted pumper truck and proper disposal. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
4.4	The commenter states the new recharge basin may create a mosquito breeding source in the area and standing water on site should be managed to ensure it does not contribute to potential vectors of disease or create public nuisance. The commenter states VCEHD responds to and maintains records of complaints received related to mosquito breeding.	As stated in the <i>Operation and Maintenance</i> discussion on Page 11 of the Draft IS-MND, operational activities would include pumping of standing water out of pipelines at the end of wet seasons. United also maintains bird boxes for nesting swallows which aid in mosquito control. Further, the average percolation rate of United's groundwater recharge basins is approximately one to four feet per day; accordingly, surface water in Ferro Basin would constantly be percolating into the ground and would likely not be suitable habitat for mosquitoes. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
4.5	The comment concludes the letter.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
Letter 5: Ventura County Public Works Watershed Planning and Permits Division			
5.1	This comment is introductory and summarizes the project.	This comment does not contain a substantive comment on the analysis or conclusions of the Draft IS-MND. No response is required.	None required.
5.2	The commenter states the project is approximately 100 feet from the Santa Clara River which is a jurisdictional redline channel, and because new or modified stormwater drainage connection to this redline channel and/or activities within the Ventura County Watershed Protection District (Watershed) easement or redline channel are proposed, a	As stated in the <i>Project Description</i> on Page 7 of the Draft IS-MND, the proposed pipeline would be underneath Vineyard Avenue to connect the Noble and Ferro basins. . No new or modified direct stormwater drainage connections to the Santa Clara River are included in the project, and no activities over, under, or within the Santa Clara River are proposed. Grading of the Ferro Basin would occur adjacent to, but outside of the Watershed easement	None required.

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Comment Number	Summary of Comment	Response to Comment	Revisions to Draft IS-MND
	Watercourse/Encroachment Permit must be obtained from the Watershed Planning and Permits Division.	covering the Santa Clara River (County of Ventura 2024). Additionally, United intends to grade the Ferro Basin such that water would not be located within the Watershed Planning and Permits Division's easement. Accordingly, the project would not encroach upon an existing Watershed Planning and Permits Division's easement. United would continue to coordinate with the Planning and Permits Division on the proposed project. No changes to the Draft IS-MND are necessary as a result of this comment.	
5.3	The commenter states proposed development shall incorporate mitigation to address cumulative impacts due to an increase in impervious surfaces. The commenter states impact from the increase in impervious surfaces and stormwater drainage design would be required to be mitigated to less-than-significant under conditions imposed by the County of Ventura, the Lead Agency. The commenter states the Watershed Planning and Permits Division will review mitigation during permitting, and the project shall not increase peak storm runoff in the 10-, 25-, 50-, and 100-year storm events. The commenter states the Watershed Planning and Permits Division determines the project design with conditions mentioned above mitigates the direct and indirect project-specific and cumulative impacts to flood control facilities and watercourses to a less-than-significant level.	The CEQA Lead Agency for this project is United, not the County of Ventura as stated by the commenter. As stated in Threshold 10(c)(ii) on Page 57 of the Draft IS-MND, the project would not add substantial impervious surfaces and therefore would not substantially increase the rate or amount of surface runoff compared to existing conditions. As described in the <i>Project Description</i> on page 7 of the Draft IS-MND, the project would consist of the installation of two underground pipelines and drainage structures. Although the project would minimally increase impervious surfaces, any runoff would be retained and infiltrated within the existing basins. Therefore, the project would not increase peak storm runoff in the 10, 25, 50, and 100-year storm events. As described in Section 21, <i>Mandatory Findings of Significance</i> , on Page 93 of the Draft IS-MND, the project's contribution to significant cumulative hydrology and water quality impacts would not be cumulatively considerable. Therefore, no mitigation measures are required. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.

Comment Number	Summary of Comment	Response to Comment	Revisions to Draft IS-MND
5.4	The commenter states the project site is located in a Moderate Flood Hazard Zone X Shaded, and therefore a flood zone clearance is required. The commenter states the project would have a less than significant impact related to hydraulic hazards with the conditions described below.	As described in Threshold 10(c)(iv) on Page 58 of the Draft IS-MND, the Federal Emergency Management Agency identifies the project site Zone X, which is an area outside of the flood hazard zone. The area is also “shaded” to indicate there is reduced risk due to a levee. Although the Ferro Basin is adjacent to the Santa Clara River, an existing levee protects the Ferro Basin from flooding and the project site is not subject to flood flows. The Ventura County Floodplain Management Ordinance (Division 5, Chapter 6 of the County’s Municipal Code) sets forth development standards in flood hazard zones but does not apply to areas designated Zone X by Federal Emergency Management Agency; therefore, flood zone clearances are not applicable to the proposed project. As described in Threshold 10(c)(iv) and Threshold 10(d) on Page 58 of the Draft IS-MND, the proposed project would have no impact related to flooding. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
5.5	The commenter states operation of the Ferro Basin has the potential to encroach into the Ventura County Watershed Protection District’s flood control easement along Santa Clara River and Central Avenue Drain, and therefore an encroachment permit must be obtained prior to the start of construction. The commenter includes required documents for the permit and states the applicant shall also consult with the United States Army Corps of Engineers, Los Angeles District, for a potential Section 408 permit.	As detailed in Response 5.2, project activities would occur adjacent to, but outside of, the Watershed easements covering the Santa Clara River and Central Avenue Drain to the north and west of the Ferro Basin, respectively. Therefore, no encroachment into the Ventura County Watershed Protection District’s flood control easement would occur and no encroachment permit would be required. However, United will procure all applicable permits for the project, and will continue to coordinate with Watershed staff regarding the adjacent right-of-way and levee. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.

Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Comment Number	Summary of Comment	Response to Comment	Revisions to Draft IS-MND
5.6	The commenter states the project requires a Watercourse/Encroachment permit and provides required materials for the permit application, including construction plans, site-specific hydrology details, hydraulics studies, and other information requested by the Ventura County Watershed Protection District. The commenter provides documentation, timing, monitoring, and reporting requirements for this permit.	As detailed in Response 5.2 and Response 5.5, project activities would occur adjacent to, but outside of, the Watershed Planning and Permits Division's easements covering the Santa Clara River and Central Avenue Drain to the north and west of the Ferro Basin, respectively. Therefore, no encroachment into the Ventura County Watershed Protection District's flood control easement would occur and no encroachment permit would be required. Therefore, the Watercourse/Encroachment permit and associated requirements listed by the commenter are inapplicable to the project. No changes to the Draft IS-MND are necessary as a result of this comment.	None required.
5.7	The commenter states to comply with the Ventura County Floodplain Management Ordinance and Ventura County General Plan policies HAZ-2.1, HAZ-2.2, HAZ-2.3 and HAZ-2.5, United shall obtain a Flood Zone Clearance from the Ventura County Public Works Agency Floodplain Manager. The commenter provides documentation, timing, monitoring, and reporting requirements for this clearance.	As described in Threshold 10(c)(iv) on Page 58 of the Draft IS-MND, the Federal Emergency Management Agency identifies the project site as within Zone X Shaded, which is an area with moderate flood hazard outside of the special flood hazard zone. Although the Ferro Basin is adjacent to the Santa Clara River, an existing levee protects the Ferro Basin from flooding and the project site is not subject to flood flows. The Ventura County Floodplain Management Ordinance (Division 5, Chapter 6 of the County's Municipal Code) sets forth development standards in flood hazard zones but does not apply to areas designated Zone X Shaded by Federal Emergency Management Agency; therefore, the Ventura County Floodplain Management Ordinance is inapplicable to the project. Ventura County General Plan policies HAZ-2.1, HAZ-2.2, HAZ-2.3 and HAZ-2.5 relate to limiting land use in the regulatory floodway, using best available flood hazard information, prohibiting incompatible land uses in floodplains, and requiring a recordation of a Notice of Flood Hazard for discretionary entitlements within areas subject to flooding. As described in Threshold 10(c)(iv) on Page 58 of the Draft IS-MND, the Federal Emergency Management Agency identifies	None required.

Comment Number	Summary of Comment	Response to Comment	Revisions to Draft IS-MND
		the project site as within Zone X Shaded, which is an area outside of the Special Flood Hazard Area. The project site is not within a regulatory floodway. Because the project site is located outside of a Special Flood Hazard Area as designated by the Federal Emergency Management Agency, the project would not introduce incompatible uses in a floodplain and would not require Flood Zone Clearance. No changes to the Draft IS-MND are necessary as a result of this comment.	
5.8	This comment concludes the letter.	This comment does not contain a substantive comment on the analysis or conclusions of the IS-MND. No response is required.	None required.

Errata to the Draft IS-MND

This section presents specific text changes made to the Draft IS-MND since its publication and public review. The changes are presented in the order in which they appear in the original Draft IS-MND and are identified by the Draft IS-MND page number. Changes in text are signified by strikeouts (~~strikeouts~~) where text is removed and by underlined font (underlined font) where text is added.

Textual revisions to the Draft IS-MND amplify, correct, supplement, or clarify information in the Draft IS-MND, or replace mitigation measures with equal or more effective measures. These revisions do not substantively affect the level of impact nor the conclusions presented. Therefore, pursuant to *CEQA Guidelines* Section 15073.5(c), recirculation of the Draft IS-MND is not warranted.

Revisions to the Draft IS-MND

Section 7, *Description of Project*, page 7:

The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United’s existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations.

Section 7, *Description of Project*, page 9:

Construction General Best Management Practices

The project would incorporate the following general best management practices (BMPs) to minimize or avoid potential impacts to biological resources within the project site:

- Project-related vehicles would observe a five-mile-per-hour speed limit within the unpaved limits of construction.
- All open trenches would be fenced and sloped to prevent entrapment of wildlife species.
- All hollow posts and pipes would be capped, and metal fence stakes would be plugged with bolts or other plugging materials to prevent wildlife entrapment and mortality.
- If construction lighting is required during construction hours, lighting would be shielded and downcast to avoid potential impacts to wildlife migration.
- No deliberate feeding of wildlife would be allowed.
- No pets would be allowed on the project site.
- Before starting or moving construction vehicles at the beginning of each day, ~~operators~~ would a sweep shall be conducted, including inspection under all vehicles to avoid impacts to any wildlife that may have sought refuge on or under equipment. All large building materials and pieces with crevices where wildlife could potentially hide would also be inspected before moving. If wildlife is detected, a qualified biologist would temporarily stop activities until the animal leaves the area. If the animal does not leave the area on its own, a qualified biologist would move the animal out of harm’s way. In the case of federal or state-listed species, relocation would be carried out in accordance with regulatory authorizations issued under the Endangered Species Act and/or California Endangered Species Act, Fish

and Game Code § 1002, 1002.5, 1003, and/or Cal. Code Regs., tit. 14, § 650. United would consult with CDFW prior to relocation of any special status or listed species.

- Rodenticides and second-generation anticoagulant rodenticides would be prohibited.

Environmental Checklist Section 4, *Biological Resources*, page 31:

The purpose of the project is to recharge groundwater during wet conditions when additional surface water flows are available. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, no indirect impacts to these species would occur.

Environmental Checklist Section 4, *Biological Resources*, page 31:

BIO-1 Nesting Bird Pre-Construction Survey and Avoidance

To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 7 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, as well as areas suitable for ground nesting species), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. If burrowing owls or signs of their activity are present in the project site, United shall consult with CDFW.

If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging that is not harmful to wildlife. An appropriate avoidance buffer ranging in size from 25 to 50 feet for passerines, and up to 300 feet for raptors and listed species, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.

Environmental Checklist Section 4, *Biological Resources*, page 32 of the Draft IS-MND:

As described above under Item 4(a), the proposed project would not involve alteration or modification to the Santa Clara River. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations.

Environmental Checklist Section 4, *Biological Resources*, page 33 of the Draft IS-MND:

The Santa Clara River provides passage for wildlife movement in the surrounding region; however, the project would not physically modify the river nor modify United's existing water ~~diversion~~ rights or involve diverting additional water from the Santa Clara River beyond existing permitted operations.

Environmental Checklist Section 10, *Hydrology and Water Quality*, page 56 of the Draft IS-MND:

The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations.

Environmental Checklist Section 10, *Hydrology and Water Quality*, page 59 of the Draft IS-MND:

Additionally, the project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations. Therefore, the project would not conflict with or obstruct implementation of a sustainable groundwater management plan.

Environmental Checklist Section 14, *Population and Housing*, page 71 of the Draft IS-MND:

While the project would result in a minor increase in operations and maintenance trips to the Noble Basin and Ferro Basin during wet years, no employment increases would occur due to these trips. Accordingly, the project would not directly result in population growth. The project would not modify United's existing water ~~diversion~~ rights and would not involve diverting additional water from the Santa Clara River beyond existing permitted operations, and therefore would not indirectly result in population growth.

References

Ventura County. 2024. PWA GIS Mapping Application. <https://maps.ventura.org/pwagisviewer/> (accessed September 2024).

Appendix A

Comment Letters



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
3883 Ruffin Rd.
San Diego, CA 92123
www.wildlife.ca.gov

GAVIN NEWSOM, Governor
CHARLTON H. BONHAM, Director



Letter 1

August 26, 2024

Hannah Garcia-Wickstrum
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030
hannahg@unitedwater.org

Subject: Mitigated Negative Declaration for Groundwater Recharge Capacity Expansion Project – Ferro Recharge, SCH #2024071176, United Water Conservation District, Ventura County

Dear Hannah Garcia-Wickstrum:

The California Department of Fish and Wildlife (CDFW) has reviewed the Mitigated Negative Declaration (MND) for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (Project) proposed by the United Water Conservation District (United). CDFW appreciates the opportunity to provide comments regarding aspects of the Project that could affect fish and wildlife resources and may be subject to CDFW's regulatory authority under the Fish and Game Code.

CDFW's Role

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State [Fish & G. Code, §§ 711.7, subdivision (a) & 1802; Pub. Resources Code, § 21070; California Environmental Quality Act (CEQA) Guidelines, § 15386, subdivision (a)]. CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (Id., § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect State fish and wildlife resources.

CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code, including lake and streambed alteration regulatory authority (Fish & G. Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take", as defined by State law, of any species protected under the California Endangered Species Act (CESA; Fish & G. Code, § 2050 et seq.), or CESA-listed rare plant pursuant to the Native Plant Protection Act (NPPA; Fish & G. Code, § 1900 et seq.), CDFW recommends United obtain appropriate authorization under the Fish and Game Code.

1.1

Conserving California's Wildlife Since 1870

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Project Summary

Project Applicant: United Water Conservation District.

Objective: United proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Ferro Basin to the Noble Basin. This will enable the conveyance of water to the Ferro Basin for artificial groundwater recharge. United estimates connecting the basins would, on average, provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. Project construction would occur over approximately six to eight months and would start as early as July 2025. Construction activities would generally occur from 6:30 a.m. to 6:30 p.m., Monday through Friday. Trenchless pipeline installation may require constant (24 hours a day, seven days a week) construction activities. The proposed pipeline would be installed via open cut trench on either side of Vineyard Avenue, and via trenchless methods underneath Vineyard Avenue in accordance with California Department of Transportation requirements. The Project would also involve grading and contouring the embankments along the pipeline alignment and in the Ferro Basin to facilitate recharge.

Location: The Project site is in unincorporated Ventura County, approximately one mile north of the Oxnard city limits and three miles northeast of the Camarillo city limits. The Project site traverses State Route 232 (Vineyard Avenue) in an undeveloped area between properties located at 5625 Vineyard Avenue and 5721 Vineyard Avenue. The Project site is generally surrounded by agricultural and agricultural commercial land uses. Agricultural land uses and produce retailers are located to the north and south, the Ferro Basin is located to the west, and the Noble Basin is located to the east. Residences are located approximately 500 feet northeast of where the pipeline would intersect Vineyard Avenue. The Project site is located approximately 0.3 mile east of the Santa Clara River.

Biological Setting: Both the Noble and Ferro Basins are regularly disturbed areas that are predominantly vegetated, primarily around the margins, with non-native plants. Several bird species can be observed in the basin, and inactive bird nests were identified in trees adjacent to the Noble Basin during the field assessment. The Ferro Basin is adjacent to the Santa Clara River and, at the time of the field assessment, had been recently disced. Discing involves removing vegetation and disturbing surface soils to a depth of approximately six inches. United discs the Ferro Basin approximately once per year for vegetation control and to maintain a permeable surface. Surface water availability in the Ferro Basin is intermittent and controlled by United.

Species determined to have some potential to occur within the Project vicinity include: Least Bell's vireo (*Vireo bellii pusillus*), Tricolored blackbird (*Agelaius tricolor*), burrowing owl (*Athene cunicularia*), coast horned lizard (*Phrynosoma blainvillii*), two-striped garter snake (*Thamnophis hammondi*), Southern California steelhead (*Oncorhynchus mykiss irideus*), Santa Ana sucker (*Catostomus santaanae*), and partially armored threespine stickleback (*Gasterosteus aculeatus*). Migratory and common bird species have the potential to nest within the Project area. The Project

1.1 cont.

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1.1 cont.

would likely require removal of three trees in the Project site, which could result in direct impacts to nesting birds. Additionally, the Project could adversely affect protected nesting birds through construction noise, dust, and other indirect disturbances.

Comments and Recommendations

CDFW offers the comments and recommendations below to assist United in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document.

Comment #1: Impacts to Aquatic and Riparian Resources; Lake and Streambed Alteration Agreement (LSAA)

Issue: Project activities may reduce water availability for biological resources in the Santa Clara River, a stream subject to Fish and Game Code, section 1600 et. seq. Impacts to biological resources (including groundwater dependent ecosystems, fishes, and nearby vegetation communities) may result from the proposed Project.

1.2

Specific Impact: The Project proposes to increase the amount of water diverted from the Santa Clara River (at the Vern-Freeman Diversion Dam). The water would be conveyed to the Ferro Basin for additional groundwater recharge. Reduced flows in the Santa Clara River may result in the loss of streams and associated watershed function and biological diversity downstream of the Vern-Freeman Diversion Dam, which is approximately 3.1 miles upstream of the Project. Increased water diversion may also significantly alter hydrologic and geomorphic processes of the Santa Clara River and may affect groundwater dependent ecosystems.

Why Impact Would Occur: The Project may result in impacts to the Santa Clara River, which is expected to result in loss of natural drainage patterns, soils, and associated vegetation. These actions may also result in changes to the streams, altering hydrologic and geomorphic processes that may impact plant and wildlife species. CDFW is concerned that the conveyance of water from the Santa Clara River to the Ferro Basin may potentially reduce flows and impact groundwater elevation, downstream of the Vern-Freeman Diversion Dam, negatively impacting surrounding groundwater dependent ecosystems, groundwater dependent ecosystem vegetation, wildlife, and fish passage.

Regarding groundwater dependent ecosystems, the Department of Water Resource's [Natural Communities Commonly Associated with Groundwater Dataset](#) identifies many potential groundwater dependent ecosystems in the Projects geographic boundary adjacent to the Santa Clara River (DWR 2024). The potential groundwater dependent ecosystems identified likely comprise phreatophytic vegetation, which rely on water supply from the groundwater table. This vegetation is a critical contributor to habitat and forage for a wide range of species and can be sensitive to depth to groundwater threshold impacts (Naumburg et al. 2005, Froend and Sommer 2010). This sensitivity to groundwater level thresholds means that localized pumping and recharge actions

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altering groundwater levels (such as those potentially resulting from the Project) can impact phreatophyte vegetation health. Both decreasing (drying out) or increasing (drowning) groundwater elevation has the potential to stress phreatophytes depending on the plant species and the groundwater elevation and duration (e.g., short term wetness/dryness versus prolonged wetness/dryness).

Evidence Impact Would Be Significant: CDFW has a vested interest in the sustainable management of groundwater, as many sensitive ecosystems and resources are dependent on groundwater. The Santa Clara River Valley – Oxnard Groundwater Basin (including subbasins) is considered a high priority basin that is critically over drafted (as determined by the Department of Water Resources) and is subject to the Sustainable Groundwater Management Act (SGMA). In addition, the Department of Water Resources documented declining groundwater levels due to long-term overdraft. This may lead to potential for adverse impacts to streams and habitat in Santa Clara River Valley Oxnard Groundwater Basin attributable to groundwater pumping according to the SGMA Basin Prioritization (DWR 2020). Absent SGMA requirements for environmental considerations and protections, it is incumbent upon the Santa Clara River Valley Oxnard Watermaster to consider and manage impacts to public trust resources, including groundwater dependent ecosystems and interconnected surface waters in the Project. Per CEQA Guidelines, section 15065(a), a project may have a significant effect on biological resources if the project substantially reduces the habitat of a fish or wildlife species; threatens to eliminate a plant community; or has the potential to restrict the range of an endangered, rare, or threatened species. By impacting sites like groundwater dependent ecosystems without mitigation, the Project may have a significant effect on biological resources by further eliminating plant communities, fish passage, and reducing habitat for wildlife species.

1.2 cont.

Recommended potentially feasible mitigation measure(s):

Mitigation Measure #1: The Project applicant (or “entity”) must provide written notification to CDFW pursuant to section 1600 et seq. of the Fish and Game Code. Based on this notification and other information, CDFW shall determine whether a LSAA is required prior to conducting the proposed activities. Please visit CDFW’s [Lake and Streambed Alteration Program](#) webpage for more information (CDFW 2024a).

CDFW’s issuance of an LSAA for a Project that is subject to CEQA will require CEQA compliance actions by CDFW as a Responsible Agency. As a Responsible Agency, CDFW may consider the CEQA document of the Lead Agency for the Project. To minimize additional requirements by CDFW pursuant to section 1600 et seq. and/or under CEQA, the CEQA document should fully identify the potential impacts to streams or riparian resources and provide adequate avoidance, mitigation, monitoring, and reporting commitments for issuance of the LSAA.

1.3

Mitigation Measure #2: Any LSAA issued for the Project by CDFW may include additional measures protective of streambeds on and downstream of the Project such as additional erosion and pollution control measures. To compensate for any on-site

and off-site impacts to riparian resources, additional mitigation conditioned in any LSAA may include the following: avoidance of resources, on-site or off-site creation, enhancement, or restoration, and/or protection and management of mitigation lands in perpetuity.

1.3 cont.

Mitigation Measure #3: If impacts to vegetation within the stream, such as willow thicket, mulefat thicket, and riparian scrub cannot be avoided, CDFW suggests mitigation should be achieved entirely on site if possible. CDFW recommends that impacts be mitigated at no less than 3:1. CDFW recommends that an on-site Habitat Mitigation and Monitoring Plan (HMMP) be developed. An HMMP should provide specific, detailed, and enforceable measures.

Recommendation #1: CDFW recommends United provide an in-stream flows analysis and an evaluation of potential impacts on biological resources as part of the final environmental document. Appropriate avoidance, minimization, and/or mitigation measures should be developed as a result of this analysis to mitigate any impacts to biological resources. At a minimum, the analysis should provide the following:

Changes to Hydrology and Hydraulics

1. CDFW recommends United determine and define the extent of up and downstream direct and indirect impacts to the Santa Clara River that may result from the proposed Project. Assess potential Project-related impacts on biological resources within this study reach (including any potential groundwater dependent ecosystems).
2. An analysis of potential Project-related changes. This includes water depth (percent change), wetted perimeter (acres gained/lost), and velocity (percent change). Comparing total wetted area may be useful in quantifying the effects on groundwater dependent ecosystems, assuming that infiltration rates are proportional to wetted area.
3. CDFW recommends using a 2-D hydraulic model of proposed versus existing habitat to determine whether habitat changes are expected and, if so, to what degree.
4. A map of potential changes to channel hydraulics overlain on a map of plant communities and habitat for sensitive wildlife species and birds.
5. A discussion of Project-related impacts on biological resources in relation to changes in hydrology throughout the reach.
6. CDFW recommends using Normalized Difference Vegetation Index (NDVI) and Normalized Difference Moisture Index (NDMI) to assess habitat health for the reach on an annual basis.

1.4

Comment #2: Impacts to Species of Special Concern

1.5

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Issue: The Project may impact coast horned lizard and two-striped garter snake, both species designated as California Species of Special Concern (SSC).

Specific impacts: Project construction and activities, directly or through habitat modification, may result in direct injury or mortality (trampling, crushing), reduced reproductive capacity, population declines, or local extirpation of an SSC. Also, loss of foraging, breeding, or nursery habitat for an SSC may occur.

Why impacts would occur: A review of the California Natural Diversity Database ([CNDDB](#)) (CDFW 2024b) as well as [iNaturalist](#) (2018) have occurrences of both species adjacent to the Project site. However, only a vegetation field assessment was conducted, preventing detection of special status wildlife species. In addition, focused surveys for amphibian and reptile species were not conducted for the MND to determine presence/absence on site. Any appropriate avoidance, minimization, or mitigation measures were not included in the MND in the event an SSC is discovered on site. Impacts to an SSC could result from ground-disturbing activities and vegetation removal. Wildlife may be trapped or crushed under structures. Large equipment, equipment and material staging, and vehicle and foot traffic could trample or bury wildlife. SSC could be injured or killed. Impacts on these SSC are more likely to occur because these are cryptic species that are less mobile and seek refuge under structures. As such, there is potential for the Project to impact SSC.

1.5 cont.

Evidence impacts would be significant: An [SSC](#) is a species, subspecies, or distinct population of an animal native to California that currently satisfies one or more of the following (not necessarily mutually exclusive) criteria:

- is extirpated from the State or, in the case of birds, is extirpated in its primary season or breeding role;
- is listed as ESA-, but not CESA-, threatened, or endangered; meets the State definition of threatened or endangered but has not formally been listed;
- is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for State threatened or endangered status; and/or
- has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for CESA threatened or endangered status (CDFW 2024c).

CEQA provides protection not only for CESA-listed species, but for any species including but not limited to SSC which can be shown to meet the criteria for State listing. These SSC's meet the CEQA definition of rare, threatened, or endangered species (CEQA Guidelines, § 15380). Therefore, take of SSC could require a mandatory finding of significance (CEQA Guidelines, § 15065).

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Impacts to any sensitive or special status species should be considered significant under CEQA unless they are clearly mitigated below a level of significance. The MND does not provide mitigation for potential impacts on SSC's. Inadequate avoidance, minimization, and mitigation measures for impacts to sensitive or special status species will result in the Project continuing to have a substantial adverse direct, indirect, and cumulative effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species by CDFW.

1.5 cont.

Recommended Potentially Feasible Mitigation Measure(s):

Mitigation Measure #1: Biological Monitor - To avoid direct injury and mortality of any SSC, CDFW recommends United require a qualified biologist on site to move out of harm's way wildlife of low mobility that would be injured or killed. Wildlife should be protected, allowed to move away on its own (non-invasive, passive relocation), or relocated to suitable habitat adjacent to the Project site. In areas where any SSC was found, work may only occur in these areas after a qualified biologist has determined it is safe to do so. Even so, qualified biologists should advise workers to proceed with caution near flagged areas. A qualified biologist should be on site daily during initial ground and habitat disturbing activities and vegetation removal. Then, the qualified biologist should be on site weekly or bi-weekly (once every two weeks) for the remainder of Project until the cessation of all ground disturbing activities to ensure that no wildlife of any kind is harmed.

Mitigation Measure #2: Scientific Collecting Permit – CDFW recommends United retain a qualified biologist with appropriate handling permits, or should obtain appropriate handling permits to capture, temporarily possess, and relocate wildlife to avoid harm or mortality in connection with Project construction and activities. CDFW has the authority to issue permits for the take or possession of wildlife, including mammals; birds, nests, and eggs; reptiles, amphibians, fish, plants; and invertebrates (Fish & G. Code, §§ 1002, 1002.5, 1003). Effective October 1, 2018, a Scientific Collecting Permit is required to monitor project impacts on wildlife resources, as required by environmental documents, permits, or other legal authorizations; and, to capture, temporarily possess, and relocate wildlife to avoid harm or mortality in connection with otherwise lawful activities (Cal. Code Regs., tit. 14, § 650). Please visit CDFW's [Scientific Collection Permits](#) webpage for information (CDFW 2024d). Pursuant to the [California Code of Regulations, title 14, section 650](#), United/qualified biologist must obtain appropriate handling permits to capture, temporarily possess, and relocate wildlife to avoid harm or mortality in connection with Project construction and activities.

1.6

Mitigation Measure #3: Wildlife Relocation Plan - Prior to initial ground and habitat disturbing activities and vegetation removal, CDFW recommends United retain a qualified biologist to prepare a Wildlife Relocation Plan. The Wildlife Relocation Plan should describe all wildlife species that could occur within the Project site and proper handling and relocation protocols. The Wildlife Relocation Plan should include species-specific relocation areas, at least 200 feet outside of the Project site and in suitable and

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safe relocation areas. No wildlife nests, eggs, or nestlings may be removed or relocated at any time.

Mitigation Measure #4: Injured or Dead Wildlife – If any SSC are harmed during relocation or a dead or injured animal is found, work in the immediate area should stop immediately, the qualified biologist should be notified, and dead or injured wildlife documented immediately. A formal report should be sent to CDFW and United within three calendar days of the incident or finding. The report should include the date, time of the finding or incident (if known), and location of the carcass or injured animal and circumstances of its death or injury (if known). Work in the immediate area may only resume once the proper notifications have been made and additional mitigation measures have been identified to prevent additional injury or death.

1.6 cont.

Comment #3: Impact on Burrowing Owl

Issue: The Project may impact burrowing owl.

Specific impacts: While burrowing owls were not detected during the conducted surveys, there may be suitable habitat on site for this species. Vegetation removal and grading activities may result in permanent loss of suitable overwintering habitat for burrowing owls. Project construction activities (e.g., equipment staging, mobilization, and grading) may also disrupt natural burrowing owl behavior.

Why impact would occur: There are multiple records of burrowing owl within five miles of the Project on [CNDDDB](#) (CDFW 2024e) as well as [iNaturalist](#) (2018). The MND states, “United staff conducted a vegetation field assessment of the project site.” Wildlife or species-specific surveys were not conducted for the Project. California ground squirrels (*Otospermophilus beecheyi*) are known to be in the area and routinely provide burrows that are used by burrowing owls. The open areas and low vegetation in and around the Project site may provide suitable habitat for burrowing owls. The MND does not provide any avoidance, minimization, or mitigation measures specific to this SSC. Without any surveys such as a preconstruction survey, burrow owls may go undetected within the Project site. Heavy machinery utilized during construction may result in death or injury of undetected burrowing owl.

1.7

Evidence impacts would be significant: Take of individual burrowing owls and their nests is defined by Fish and Game Code, section 86 and prohibited by sections 3503, 3503.5, and 3513. Take is defined in Fish and Game Code, section 86 as “hunt, pursue, catch, capture or kill, or attempt to hunt, pursue, catch, capture or kill.” Without appropriate take avoidance surveys prior to Project operations including, but not limited to, ground and vegetation disturbing activities, adverse impacts to burrowing owl may occur because species presence/absence has not been verified.

In addition, burrowing owl qualifies for enhanced consideration afforded to species under CEQA, that can be shown to meet the criteria for listing as endangered, rare, or threatened (CEQA Guidelines, § 15380(d)). Inadequate avoidance and mitigation measures will result in the Project continuing to have a substantial adverse direct and

Hannah Garcia-Wickstrum

August 26, 2024

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cumulative effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW.

1.7 cont.

Recommended Potentially Feasible Mitigation Measure(s):

Mitigation Measure #1: Burrowing Owl Surveys - To reduce impacts to burrowing owl, the Project proponent shall retain a qualified biologist to conduct protocol-level surveys adhering to CDFW's [Staff Report on Burrowing Owl Mitigation](#) (CDFW 2012). All survey efforts shall be conducted prior to any Project activities that could result in habitat disturbance to soil, vegetation, or other sheltering habitat for burrowing owl. Burrowing owl protocol surveys shall be conducted on the Project site and within 500 feet of the Project site where there is suitable habitat. In California, the burrowing owl breeding season extends from February 1 to August 31 with some variations by geographic location and climatic conditions. Survey protocol for breeding season owl surveys states to conduct four survey visits: 1) at least one site visit between February 15 and April 15, and 2) a minimum of three survey visits, at least three weeks apart, between April 15 and July 15, with at least one visit after June 15.

1.8

If an occupied burrow or burrowing owl is found within the development footprint, the biologist shall prepare an Impact Assessment and Burrowing Owl Mitigation Plan in accordance with the 2012 Staff Report on Burrowing Owl Mitigation. The Project proponent shall contact CDFW to develop appropriate mitigation and management procedures and a final Burrowing Owl Mitigation Plan shall be submitted to United and CDFW for review and approval prior to Project activities.

Mitigation Measure #2: Burrowing Owl Compensatory Mitigation – If the Project will impact burrowing owl and associated habitat, the Project proponent shall offset impacts on habitat supporting an SSC at a minimum of 2:1 to ensure no net loss of burrowing owl habitat. The Project proponent shall set aside comparable replacement habitat to be protected in perpetuity under a conservation easement dedicated to a local land conservancy or other appropriate entity, which should include an appropriate endowment to provide for the long-term management of mitigation lands.

Additional Recommendations

Recommendation #1: The MND provides mitigation for nesting birds; however, language in the Project's mitigation measure for nesting birds may not fully mitigate impacts to nesting birds in and around the Project site. CDFW recommends United revise Mitigation Measure BIO-1 by adding underlined language and removing the language with a ~~strike through~~:

1.9

"To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (~~February 1~~January 15 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 3 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus

Hannah Garcia-Wickstrum
 August 26, 2024
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groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, as well as areas suitable for ground nesting species), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Preconstruction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities.

1.9 cont.

If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging. An appropriate avoidance buffer ranging in size from ~~25 to 50~~ 100 to 300 feet for unlisted passerines, and up to ~~300~~ 500 feet for raptors and listed species, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.”

Recommendation #2: Rodenticides and second-generation anticoagulant rodenticides should be prohibited during the life of the Project.

Recommendation #3: CDFW recommends that any fencing used during and after the Project be constructed with materials that are not harmful to wildlife. Prohibited materials should include, but are not limited to, spikes, glass, razors, or barbed wire. Use of chain link and steel stake fence should be avoided or minimized as this type of fencing can injure wildlife or create barriers to wildlife dispersal. All hollow posts and pipes should be capped to prevent wildlife entrapment and mortality. These structures mimic the natural cavities preferred by various bird species and other wildlife for shelter, nesting, and roosting. Raptor's talons can become entrapped within the bolt holes of metal fence stakes resulting in mortality. Metal fence stakes used on the Project site should be plugged with bolts or other plugging materials to avoid this hazard. Fences should not have any slack that may cause wildlife entanglement.

Mitigation and Monitoring Reporting Plan

CDFW recommends United adopt the mitigation measures and recommendations in this letter into the MND. Mitigation measures must be fully enforceable through permit conditions, agreements, or other legally binding instruments [Pub. Resources Code, §

1.10

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21081.6; CEQA Guidelines, § 15126.4(a)(2)]. As such, CDFW has provided comments and recommendations to assist United in developing mitigation measures that are (1) consistent with CEQA Guidelines, section 15126.4; (2) specific; (3) detailed (i.e., responsible party, timing, specific actions, location), and (4) clear for a measure to be fully enforceable and implemented successfully via mitigation, monitoring, and/or reporting program (Pub. Resources Code, § 21081.6; CEQA Guidelines, § 15097).

1.10 cont.

United is welcome to coordinate with CDFW to further review and refine the Project's mitigation measures. Per Public Resources Code, section 21081.6(a)(1), CDFW has provided United with a summary of our suggested mitigation measures and recommendations in the form of an attached Draft Mitigation and Monitoring Reporting Plan (MMRP; Attachment 1).

Environmental Data

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, sub. (e)) Accordingly, please report any special status species and natural communities detected during Project surveys to the CNDDDB. The [CNNDDB field survey form](#) can be filled out and submitted online (CDFW 2024e). The types of information reported to CNDDDB can be found at the following link: <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>.

1.11

Environmental Document Filing Fees

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the environmental document filing fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

1.12

Conclusion

CDFW appreciates the opportunity to comment on the MND to assist United in identifying and mitigating Project impacts on biological resources. To ensure significant impacts are adequately mitigated to a level less-than-significant, the feasible mitigation measures described above should be incorporated as enforceable conditions in the MND for the Project. CDFW requests an opportunity to review and comment on any

1.13

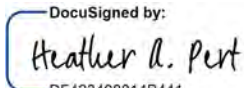
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response that United has to our comments and to receive notification of any forthcoming hearing date(s) for the Project [CEQA Guidelines, § 15073(e)].

1.13 cont.

Questions regarding this letter or further coordination should be directed to Felicia Silva, Senior Environmental Scientist (Specialist), at Felicia.Silva@wildlife.ca.gov or (562) 292-8105 to schedule a meeting with CDFW.

Sincerely,

DocuSigned by:

DF423498814B441
Heather A. Pert
Environmental Program Manager

Attachments

Attachment A Draft Mitigation and Monitoring Plan

EC: California Department of Fish and Wildlife
Baron Barrera, Senior Environmental Scientist (Supervisory)
Felicia Silva, Senior Environmental Scientist (Specialist)
Cindy Hailey, Staff Services Analyst
CEQA Program Coordinator – Sacramento

OPR
State Clearinghouse - State.Clearinghouse@opr.ca.gov

References:

- [CDFW] California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. Available at:
<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline>
- [CDFW] California Department of Fish and Wildlife. 2024a. Lake and Streambed Alteration Program. Available at: <https://wildlife.ca.gov/Conservation/LSA>
- [CDFW] California Department of Fish and Wildlife. 2024b. California Natural Diversity Database. Available at: <https://wildlife.ca.gov/Data/CNDDB>
- [CDFW] California Department of Fish and Wildlife. 2024c. Species of Special Concern. Available at: <https://wildlife.ca.gov/Conservation/SSC>
- [CDFW] California Department of Fish and Wildlife. 2024d. Scientific Collecting Permit. Available from: <https://wildlife.ca.gov/Licensing/Scientific-Collecting#53949678>
- [CDFW] California Department of Fish and Wildlife. 2024e. Submitting Data to the CNDDB. Available from: <https://wildlife.ca.gov/Data/CNDDB/Submitting-Data>.
- [DWR] Department of Water Resources. 2020. SGMA Basin Prioritization. Available at: <https://gis.water.ca.gov/app/bp-dashboard/final/>

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Naumberg, E., Mata-gonzalez, R., Hunter, R.G., Mclendon, T., Martin, D.W. Phreatophytic Vegetation and Groundwater Fluctuations: A Review of Current Research and Application of Ecosystem Response Modeling with an Emphasis on Great Basin Vegetation. *Environmental Management* 35, 726–740 (2005).
<https://doi.org/10.1007/s00267-004-0194-7>

Attachment A: Draft Mitigation and Monitoring Reporting Plan

CDFW recommends the following language to be incorporated into the Project's environmental document.

Biological Resources (BIO)			
Mitigation Measure (MM) or Recommendation (REC)		Timing	Responsible Party
MM-BIO-1-LSA Notification	The Project applicant (or "entity") must provide written notification to CDFW pursuant to section 1600 <i>et seq.</i> of the FGC. Based on this notification and other information, CDFW shall determine whether a Lake and Streambed Alteration (LSA) Agreement is required prior to conducting the proposed activities. Please visit CDFW's Lake and Streambed Alteration Program webpage for more information (CDFW 2024a). CDFW's issuance of an LSA Agreement for a Project that is subject to CEQA will require CEQA compliance actions by CDFW as a Responsible Agency. As a Responsible Agency, CDFW may consider the CEQA document of the Lead Agency for the Project. To minimize additional requirements by CDFW pursuant to section 1600 <i>et seq.</i> and/or under CEQA, the CEQA document shall fully identify the potential impacts to streams or riparian resources and provide adequate avoidance, mitigation, monitoring, and reporting commitments for issuance of the LSA Agreement.	Prior to issuance of development permit	United Water Conservation District (United)/Project Applicant
MM-BIO-2-LSAA Mitigation	Any LSA Agreement issued for the Project by CDFW may include additional measures protective of streambeds on and downstream of the Project such as additional erosion and pollution control measures. To compensate for any on-site and off-site impacts to riparian resources, additional mitigation conditioned in any LSA Agreement may include the following: avoidance of resources, on-site or off-site creation, enhancement, or restoration, and/or protection and management of mitigation lands in perpetuity.	Prior to issuance of development permit	United/Project Applicant

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MM-BIO-3- Impacts to Vegetation	If impacts to vegetation within the stream, such as willow thicket, mulefat thicket, and riparian scrub cannot be avoided, mitigation shall be achieved entirely on site if possible. Impacts will be mitigated at no less than 3:1. An on-site Habitat Mitigation and Monitoring Plan (HMMP) will be developed. The HMMP shall provide specific, detailed, and enforceable measures.	Prior to issuance of development permit	United/Project Applicant
REC-1- Hydrology Analysis	CDFW recommends United provide an in-stream flows analysis and an evaluation of potential impacts on biological resources as part of the final environmental document. Appropriate avoidance, minimization, and/or mitigation measures should be developed as a result of this analysis to mitigate any impacts to biological resources. At a minimum, the analysis should provide the following: <i>Changes to Hydrology and Hydraulics</i> 2. CDFW recommends United determine and define the extent of up and downstream direct and indirect impacts to the Santa Clara River that may result from the proposed Project. Assess potential Project-related impacts on biological resources within this study reach (including any potential groundwater dependent ecosystems). 3. An analysis of potential Project-related changes. This includes water depth (percent change), wetted perimeter (acres gained/lost), and velocity (percent change). Comparing total wetted area may be useful in quantifying the effects on groundwater dependent ecosystems, assuming that infiltration rates are proportional to wetted area. 4. CDFW recommends using a 2-D hydraulic model of proposed versus existing habitat to determine whether habitat changes are expected and, if so, to what degree. 5. A map of potential changes to channel hydraulics overlain on a map of plant communities and habitat for sensitive wildlife species and birds. 6. A discussion of Project-related impacts on biological resources in relation to changes in hydrology throughout the reach.	Prior to issuance of development permit	United/Project Applicant

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	7. CDFW recommends using Normalized Difference Vegetation Index (NDVI) and Normalized Difference Moisture Index (NDMI) to assess habitat health for the reach on an annual basis.		
MM-BIO-4-Biological Monitor	To avoid direct injury and mortality of any SSC, CDFW recommends United require a qualified biologist on site to move out of harm's way wildlife of low mobility that would be injured or killed. Wildlife shall be protected, allowed to move away on its own (non-invasive, passive relocation), or relocated to suitable habitat adjacent to the Project site. In areas where any SSC was found, work may only occur in these areas after a qualified biologist has determined it is safe to do so. Even so, the qualified biologist shall advise workers to proceed with caution near flagged areas. A qualified biologist shall be on site daily during initial ground and habitat disturbing activities and vegetation removal. Then, the qualified biologist shall be on site weekly or bi-weekly (once every two weeks) for the remainder of Project until the cessation of all ground disturbing activities to ensure that no wildlife of any kind is harmed.	During Project Activities	United/Project Applicant
MM-BIO-5-Scientific Collecting Permit	United shall retain a qualified biologist with appropriate handling permits, or shall obtain appropriate handling permits to capture, temporarily possess, and relocate wildlife to avoid harm or mortality in connection with Project construction and activities. CDFW has the authority to issue permits for the take or possession of wildlife, including mammals; birds, nests, and eggs; reptiles, amphibians, fish, plants; and invertebrates (Fish & G. Code, §§ 1002, 1002.5, 1003). Effective October 1, 2018, a Scientific Collecting Permit is required to monitor project impacts on wildlife resources, as required by environmental documents, permits, or other legal authorizations; and, to capture, temporarily possess, and relocate wildlife to avoid harm or mortality in connection with otherwise lawful activities (Cal. Code Regs., tit. 14, § 650). Please visit CDFW's Scientific Collection Permits webpage for information (CDFW 2024d). Pursuant to the California Code of Regulations, title 14, section 650 , United/qualified biologist must obtain appropriate handling permits to capture, temporarily possess, and	Prior to issuance of development permit	United/Project Applicant

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	relocate wildlife to avoid harm or mortality in connection with Project construction and activities.		
MM-BIO-6- Wildlife Relocation Plan	Prior to initial ground and habitat disturbing activities and vegetation removal, United shall retain a qualified biologist to prepare a Wildlife Relocation Plan. The Wildlife Relocation Plan shall describe all wildlife species that could occur within the Project site and proper handling and relocation protocols. The Wildlife Relocation Plan shall include species-specific relocation areas, at least 200 feet outside of the Project site and in suitable and safe relocation areas. No wildlife nests, eggs, or nestlings may be removed or relocated at any time.	Prior to issuance of development permit	United/Project Applicant
MM-BIO-7- Injured or Dead Wildlife	If any SSC are harmed during relocation or a dead or injured animal is found, work in the immediate area shall stop immediately, the qualified biologist shall be notified, and dead or injured wildlife documented immediately. A formal report shall be sent to CDFW and United within three calendar days of the incident or finding. The report shall include the date, time of the finding or incident (if known), and location of the carcass or injured animal and circumstances of its death or injury (if known). Work in the immediate area may only resume once the proper notifications have been made and additional mitigation measures have been identified to prevent additional injury or death.	During Project Activities	United/Project Applicant
MM-BIO-8- Burrowing Owl Survey	To reduce impacts to burrowing owl, the Project proponent shall retain a qualified biologist to conduct protocol-level surveys adhering to CDFW's Staff Report on Burrowing Owl Mitigation (CDFW 2012). All survey efforts shall be conducted prior to any Project activities that could result in habitat disturbance to soil, vegetation, or other sheltering habitat for burrowing owl. Burrowing owl protocol surveys shall be conducted on the Project site and within 500 feet of the Project site where there is suitable habitat. In California, the burrowing owl breeding season extends from February 1 to August 31 with some variations by geographic location and climatic conditions. Survey protocol for breeding season owl surveys states to conduct four survey visits: 1) at least	Prior to issuance of development permit	United/Project Applicant

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	one site visit between February 15 and April 15, and 2) a minimum of three survey visits, at least three weeks apart, between April 15 and July 15, with at least one visit after June 15. If an occupied burrow or burrowing owl is found within the development footprint, the biologist shall prepare an Impact Assessment and Burrowing Owl Mitigation Plan in accordance with the 2012 Staff Report on Burrowing Owl Mitigation. The Project proponent shall contact CDFW to develop appropriate mitigation/management procedures and a final Burrowing Owl Mitigation Plan shall be submitted to United and CDFW for review and approval prior to Project activities.		
MM-BIO-9-Burrowing Owl Compensatory Mitigation	If the Project will impact burrowing owl and associated habitat, the Project proponent shall offset impacts on habitat supporting an SSC at a minimum of 2:1 to ensure no net loss of burrowing owl habitat. The Project proponent shall set aside comparable replacement habitat to be protected in perpetuity under a conservation easement dedicated to a local land conservancy or other appropriate entity, which shall include an appropriate endowment to provide for the long-term management of mitigation lands.	Prior to issuance of development permit	United/Project Applicant
REC-2-Nesting Birds	The MND provides mitigation for nesting birds; however, language in the Project's mitigation measure for nesting birds may not fully mitigate impacts to nesting birds in and around the Project site. CDFW recommends United revise Mitigation Measure BIO-1 by adding underlined language and removing the language with a strikethrough: “To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1~~January~~ <u>15</u> to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 3 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, <u>as well as areas</u>	Prior to ground moving activities	United/Project Applicant

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	<u>suitable for ground nesting species</u>), a nesting bird pre-construction survey shall be conducted by a qualified biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Preconstruction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging. An appropriate avoidance buffer ranging in size from 25 to 50 <u>100 to 300</u> feet for <u>unlisted</u> passerines, and up to 300 <u>500</u> feet for raptors <u>and listed species</u>, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.”		
REC-3-Rodenticides	Rodenticides and second-generation anticoagulant rodenticides shall be prohibited during the life of the Project.	Prior to finalizing	United/Project Applicant

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		CEQA document	
REC-4-Wildlife fencing	CDFW recommends that any fencing used during and after the Project be constructed with materials that are not harmful to wildlife. Prohibited materials shall include, but are not limited to, spikes, glass, razor, or barbed wire. Use of chain link and steel stake fence shall be avoided or minimized as this type of fencing can injure wildlife or create barriers to wildlife dispersal. All hollow posts and pipes shall be capped to prevent wildlife entrapment and mortality. These structures mimic the natural cavities preferred by various bird species and other wildlife for shelter, nesting, and roosting. Raptor's talons can become entrapped within the bolt holes of metal fence stakes resulting in mortality. Metal fence stakes used on the Project site shall be plugged with bolts or other plugging materials to avoid this hazard. Fences shall not have any slack that may cause wildlife entanglement.	Prior to finalizing CEQA document	United/Project Applicant

DEPARTMENT OF TRANSPORTATION

DISTRICT 7

100 S. MAIN STREET, MS 16

LOS ANGELES, CA 90012

PHONE (213) 266-3562

FAX (213) 897-1337

TTY 711

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Letter 2

August 29, 2024

Hannah Garcia-Wickstrum
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030

RE: Groundwater Recharge Capacity
Expansion Project – Ferro Recharge:
Mitigated Negative Declaration (MND)
GTS # 07-VEN-2024-00607
SCH # 2024071176
Vic. VEN 232 PM 3.084

Dear Hannah Garcia-Wickstrum:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above-referenced project. The Project proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Ferro Basin to the Noble Basin, which would enable the conveyance of water to the Ferro Basin for artificial groundwater recharge. United estimates connecting the basins would, on average over time, provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. Project construction would occur over approximately six to eight months, and would start as early as July 2025; however, in the event of project delays, United would delay construction to begin as late as June 2027. Construction activities would generally occur from 6:30 a.m. to 6:30 p.m., Monday through Friday; trenchless pipeline installation may require constant (24 hours a day, 7 days a week) construction activities. The proposed pipeline would be installed via open-cut trench on either side of Vineyard Avenue, and via trenchless methods underneath Vineyard Avenue in accordance with California Department of Transportation requirements. The project would also involve grading and contouring of the embankments along the pipeline alignment and in the Ferro Basin to facilitate recharge. The United Water Conservation District is the Lead Agency under the California Environmental Quality Act (CEQA).

2.1

The closest state facility is VEN 232. After reviewing the project's documents, Caltrans has the following comments:

Caltrans aims to reach zero traffic-related fatalities and serious injuries by 2050 as there is a direct link between impact speeds and the likelihood of fatality or serious injury. To achieve this goal, Caltrans encourages the Lead Agency to enhance pedestrian and

2.2

bicyclist amenities around the project area, connecting them to community destinations. Effective strategies include constructing physically separated facilities like Class IV bikeways, wide sidewalks, curb extensions, pedestrian refuge islands, and landscaping. Additionally, visual indicators such as warning signage, flashing beacons, crosswalks, and striping should complement physical design improvements, signaling to motorists that they should expect pedestrians and cyclists.

2.2
cont

Caltrans will require an Encroachment Permit for work performed within the State Right-of-way. Caltrans recommends that the Lead Agency conduct a Traffic Impact Study that includes the analysis and determination of any transportation and construction traffic impacts to the highway, intersection safety, or queuing on State Facility in the vicinity of the proposed project. Caltrans recommends limiting large truck travel and construction traffic to off-peak commute hours. Additionally, Caltrans requires a permit for any heavy construction equipment and or materials that require the use of oversized transport vehicles on State highways. If construction traffic is expected to cause issues on any State facilities, please submit a construction traffic control plan detailing these issues for Caltrans' review.

2.3

If you have any questions, please feel free to contact Jaden Oloresisimo, the project coordinator, at Jaden.Oloresisimo@dot.ca.gov and refer to GTS # 07-VEN-2024-00607.

2.4

Sincerely,



Anthony Higgins
Acting LDR/CEQA Branch Chief

cc: State Clearinghouse



Ventura County
Air Pollution
Control District

4567 Telephone Rd
Ventura, California 93003

tel 805/303-4005
fax 805/456-7797
www.vcapcd.org

Ali Reza Ghasemi, PE
Air Pollution Control Officer

Letter 3

VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT Memorandum

TO: Hannah Garcia-Wickstrum, Environmental Scientist DATE: August 27, 2024

FROM: Nicole Collazo, Air Quality Specialist, VCAPCD Planning Division *NC*

SUBJECT: Request for Review for Mitigated Negative Declaration for the United Water Conservation District Groundwater Recharge Capacity Expansion Project (RMA 24-022)

Ventura County Air Pollution Control District (APCD) staff has reviewed the subject Draft Mitigated Negative Declaration (MND) for the project referenced above, which analyzed the environmental impacts of a project to construct a pipeline connecting Ferro Basin and Noble Basin as a way to capture stormwater recharge. The project location is between 5625 and 5721 Vineyard Avenue in El Rio. The Lead Agency is the United Water Conservation District.

3.1

APCD has the following comments regarding the project's MND.

Item 1- Page 23, MM AQ-1. The construction estimate for the project was over the recommended threshold and therefore MM AQ-1 was recommended to ensure construction emissions would be under 25 lbs./day NO_x, primarily from grading operations. APCD could not locate the language of MM AQ-1 anywhere in the MND document provided in the [website](#) and could not verify if the Tier 4 Final requirement is incorporated into MM AQ-1. Please include this MM in the MND.

3.2

Item 2- MM AQ-1. APCD recommends adding the Tier 4 Final requirement and dust best management practices as a standard condition of approval for building or grading permit, for enforceability purposes and to ensure emissions to not contribute to a daily air quality violation and to avoid a potential dust nuisance violation should construction operations not be in compliance with APCD Rule 55, *Fugitive Dust*. Please disclose in the MND how these provisions will be enforced.

3.3

Thank you for the opportunity to comment on the project's MND. If you have any questions, you may contact me at nicole@vcapcd.org.

3.4



August 28, 2024

Letter 4

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030
ATTN: Hannah Garcia-Wickstrum, Environmental Scientist

RMA 24-022, Groundwater Recharge Capacity Expansion Project- Ferro Recharge

Ventura County Environmental Health Division (Division) staff reviewed information submitted for the subject project.

The United Water Conservation District proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Ferro Basin to the Noble Basin, which would enable the conveyance of water to the Ferro Basin groundwater recharge.

4.1

The Division provides the following comments:

1. Surrounding residences and commercial facilities utilize onsite wastewater treatment systems (OWTS), also known as septic systems for domestic waste disposal. The addition of the recharge basin may impact the use of surrounding residences. Owners of adjacent properties may not be able to obtain permits to expand the use and/or development of their property due to the inability to meet the 100-foot setback to this proposed groundwater recharge basin or may be required to install an alternate OWTS, with supplemental treatment components for nitrogen and pathogen reduction. New Geotechnical / Soils and Engineering Report prepared by a Qualified Professional will be required of applicants proposing to expand the use/ and or development of their properties within the surrounding area as the new recharge basin may have the potential to increase the water table in the area.

4.2

The recharge basin will be considered a lake by this Division as its intent is to divert water from the Santa Clara River when additional surface water flows are available and will not be used as a direct source for potable water. Ventura County Building Code Appendix H requires a minimum 100-foot horizontal separation, or setback, between disposal fields and lakes. A minimum 150-foot horizontal separation, or setback, between seepage pits and lakes is required.

The following adjacent properties may be affected by the addition: APN 128-0-040-125, 128-0-040-160, 128-0-040-135, 128-0-040-195, 128-0-040-175, 129-0-030-235, 129-0-030-280, 129-0-030-215, 129-0-030-265, 129-0-030-190, 133-0-190-110, 129-0-020-060.

4.2
cont.

Please visit our website for further information regarding construction and setback requirements to OWTS:

<https://vcrma.org/en/onsite-wastewater-treatment-systems>

2. Wastewater during construction is to be collected via portable restroom facilities. The project will not require permanent on-site personnel and does not include installation of permanent restroom facilities. Septage from portable toilets must be removed by a Ventura County Environmental Health Division (EHD) permitted pumper truck and must be disposed of properly at an approved septage disposal facility.

4.3

<https://vcrma.org/en/septic-tank-pumper-trucks>

3. The new recharge basin may create a mosquito breeding source in the area. Standing water onsite should be managed to ensure it does not contribute to the harborage and/or breeding potential of vectors of disease or create a public nuisance. Ventura County Environmental Health Division (EHD) staff respond to, and maintain records of, any complaints received related to mosquito breeding.

4.4

For more information regarding vector control and the mosquito abatement program, please visit our website:

<https://vcrma.org/en/vector-control-program>

If you have any questions, please contact me at (805) 654-2830 or
Roxy.Cabral@ventura.org

4.5



Roxy Cabral, R.E.H.S.
Land Use Section
Environmental Health Division

Letter 5



WATERSHED PROTECTION WATERSHED PLANNING AND PERMITS DIVISION 800 South Victoria Avenue, Ventura, California 93009

MEMORANDUM

DATE: August 13, 2024

TO: Philip Hess, Case Planner
County of Ventura

FROM: Yunsheng Su, PWA-WP Case Reviewer

SUBJECT: RMA24-022 (IS-MND) Santa Clara River Valley Groundwater Basin,
Oxnard, CA, 93030
APN:129003028
CEQA Review Comments and Conditions

Pursuant to your request dated 8/9/2024, this office has reviewed the submitted materials and provides the following comments.

PROJECT LOCATION:

Santa Clara River Valley Groundwater Basin, Oxnard, CA, 93030

Location Map:



PROJECT DESCRIPTION:

United operates and maintains approximately 600 acres of groundwater recharge basins, which are used to percolate water and recharge groundwater supplies with Santa Clara River water diverted at the Freeman Diversion. In previous years when conditions were dry with less precipitation, United did not have a need for additional groundwater recharge capacity as its current basins were sufficient to recharge the allowable amount of water United is permitted to divert from the Santa Clara River. However, with wetter conditions and above average precipitation occurring over the last two years, an opportunity exists to recharge additional surface water within the allowable diversion amounts. The Noble Basin and Ferro Basin, located along Vineyard Avenue, are among the groundwater recharge basins United operates. The Ferro Basin is not currently connected to United's diversion and recharge infrastructure and, as such, cannot be used for artificial groundwater recharge. United proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Ferro Basin to the Noble Basin, which would enable the conveyance of water to the Ferro Basin for artificial groundwater recharge. United estimates connecting the basins would, on average over time, provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. Project construction would occur over approximately six to eight months, and would start as early as July 2025; however, in the event of project delays, United would delay construction to begin as late as June 2027. Construction activities would generally occur from 6:30 a.m. to 6:30 p.m., Monday through Friday; trenchless pipeline

5.1
cont

APPLICATION COMPLETENESS:

Complete - from our area of concern.

ENVIRONMENTAL IMPACT ANALYSIS:

Item 31a. Flood Control Facilities/Watercourses – Ventura County Public Works Agency, Watershed Protection is deemed to be Less Than Significant.

The proposed project is situated about 100 feet from the Santa Clara River, which is a WP jurisdictional redline channel. The applicant's submitted materials indicate new or modified direct stormwater drainage connections to this WP channel, activities within the WP's easement, or activities over, under, or within the redline channel have been proposed. A Watercourse/Encroachment Permit must be obtained from WP.

5.2

The proposed development shall incorporate mitigation measures to address cumulative impacts due to the proposed increase in imperviousness. It is understood that impacts from the proposed increase in impervious area and stormwater drainage design within the project site will be required to be mitigated to less than significant under the conditions imposed by County of Ventura (the Lead Agency). WP will review the mitigation measures in detail during the permitting process. Project shall not increase peak storm runoff in the 10-, 25-, 50-, and 100-yr storms consistent with District policy and WP-2 Ordinance.

5.3

WP staff determines that the proposed project design with the conditions mentioned above mitigates the direct and indirect project-specific and cumulative impacts to flood control facilities and watercourses. Therefore, the environmental impact is less than significant (LS) on redline channels under the jurisdiction of the Ventura County Public Works Agency - Watershed Protection.

5.3
cont

Item 17b. Hydraulic Hazards - FEMA is deemed to be Less Than Significant.

The project site is in a location identified by the Federal Emergency Management Agency (FEMA) as an area of Moderate Flood Hazard Zone X Shaded. This is evidenced on FEMA Map Panel 06111C0770E effective January 20, 2010. Therefore, a flood zone clearance is required. The proposed development with the condition described below is therefore, deemed to be Less Than Significant for Hydraulic Hazards - FEMA.

5.4

WATERSHED PROTECTION COMMENTS:

Operation of Ferro Basin has a potential of encroaching into the Ventura County Watershed Protection District's (District) flood control easement along Santa Clara River and Central Avenue Drain. An encroachment permit must be obtained before commencement of construction. Please provide the following documents along with the permit application:

5.5

1. A detailed grading plan of Ferro Basin.
2. A study report in which the operating water surface elevation(s) are identified and the boundaries of the water bodies at design/operating water surface elevation(s) are delineated.
3. A geotechnical study report in which levee stability analyses for Santa Clara River levee and Central Avenue Drain levee under Ferro Basin operational conditions are performed.
4. Ferro Basin Operation and Maintenance plan.

The applicant shall consult with U.S. Army Corps of Engineers, LA District for a potential Section 408 permit.

WATERSHED PROTECTION CONDITIONS:

Watercourse/Encroachment Permit

Purpose: To comply with the Ventura County Watershed Protection District (County) Ordinance, and mitigate potential impacts such as obstructing, impairing, diverting, impeding, or altering the characteristics of the flow of water to jurisdictional channels by designing and constructing appropriate surface drainage and flood control facilities to protect life and property from damage or destruction from flood and storm waters.

5.6

Requirement: The Permittee shall obtain a Watercourse/Encroachment Permit. The permit application shall include the following:

- a. Construction plans prepared, signed, and stamped by a California licensed civil engineer including but not limited to, a site plan depicting general drainage

trends, existing and proposed topography with elevations, proposed improvements in both plan and profile, and construction details that meet the standards of the County of Ventura and the WP.

- b. Site specific hydrology for existing and proposed conditions that conforms to the WP's Hydrology Manual.
- c. Hydraulics using a methodology and/or computer model applicable to the proposed improvements and acceptable to the WP. The final model shall confirm there are no adverse impacts to Santa Clara River including no loss of storage volume and no increase in water surface elevation for the 1-percent chance flood peak discharge on adjacent parcels.
- d. Any other information or studies required by the Permit Section to administer the requirements of watershed Ordinance WP-2.

5.6
cont

Documentation: A WP Permit application package shall be prepared and signed by the Permittee or a duly authorized agent and submitted to and logged by the WP Permit Section.

Timing: The applicant shall obtain an encroachment permit prior to obtaining a building permit or grading permit or prior to project start date if no grading or building permits are required.

Monitoring and Reporting: Prior to permit closure, WP staff shall inspect the improvements to assure that construction was completed, in accordance with the approved plans and the Permit.

Flood Zone Clearance

Purpose: To comply with the Ventura County Floodplain Management Ordinance and Ventura County General Plan policies HAZ-2.1, HAZ-2.2, HAZ-2.3 and HAZ-2.5.

Requirement: The Applicant shall obtain a Flood Zone Clearance from the Ventura County Public Works Agency Floodplain Manager.

Documentation: A Flood Zone Clearance issued by the Public Works Agency Floodplain Manager.

5.7

Timing: The Flood Zone Clearance shall be obtained by the Applicant prior to obtaining a building permit.

Monitoring and Reporting: A copy of the approved Flood Zone Clearance shall be provided to the Building and Safety Department as well as maintained in the case file by the Public Works Agency.

If you have any questions, please feel free to contact me by email at Yunsheng.Su@Ventura.Org or by phone at [805-654-2005](tel:805-654-2005).

END OF TEXT.

ATTACHMENT D



Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Mitigation Monitoring and Reporting Program
State Clearinghouse No.
2024071176

prepared by

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

prepared with the assistance of

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, California 93003

September 2024

Mitigation Monitoring and Reporting Program

This document constitutes the Mitigation Monitoring and Reporting Program (MMRP) for the United Water Conservation District's (United's) Groundwater Recharge Capacity Expansion Project – Ferro Recharge (project). The California Environmental Quality Act requires that a reporting or monitoring program be adopted for the conditions of project approval that are necessary to mitigate or avoid significant effects on the environment (Public Resources Code 21081.6). This MMRP is intended to track and ensure compliance with adopted mitigation measures during the project implementation phase. For each mitigation measure required in the Initial Study – Mitigated Negative Declaration (IS-MND), specifications are made herein that identify the action required and its timing, the monitoring that must occur, and the agency or department responsible for oversight.

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Com- pliance Verifi- cation Initial	Com- pliance Verifi- cation Date	Com- pliance Verifi- cation Comments
Air Quality							
AQ-1: Ferro Basin Grading NOx Emission Reduction							
To reduce NOx emissions during grading of the Ferro Basin, a minimum of two of the five scrapers shall be equipped with United States Environmental Protection Agency (USEPA) Tier 4 Final or better diesel engines, to the extent feasible. If two of the five scrapers are equipped with USEPA Tier 4 Final or better diesel engines, the other three scrapers may be any engine tier. Equipment engines must be maintained in good condition and in proper tune pursuant to manufacturer's specifications. If the contractor determines equipment with the required tier or fuel type is not reasonably available, United shall require the contractor to utilize a maximum of three scrapers during Ferro Basin grading. Construction equipment used to grade the Ferro Basin must be designated on construction plans and provided to United for review and approval prior to the start of construction.	Include construction equipment requirements in the construction contractor specifications.	Prior to issuance of construction bid packages for construction activities.	Once.	United Water Conservation District (United)			
	Review construction plans for construction equipment specifications.	Prior to the start of construction.	Once.				
Biological Resources							
BIO-1: Nesting Bird Pre-Construction Survey and Avoidance							
To avoid impacts to nesting birds, project-related activities shall occur outside of the bird breeding season (February 1 to September 15) to the extent practicable. If construction must occur within the bird breeding season, then no more than 7 days prior to initiation of ground disturbance and/or vegetation removal in areas with potential to support nesting birds (i.e., near the eucalyptus groves or pepper tree groves vegetation communities, or the ornamental landscaping land cover type, as well as areas suitable for ground nesting species), a nesting bird pre-construction survey shall be conducted by a qualified	Schedule construction activities to commence outside the general bird nesting season (September 16 to January 31) if feasible.	Prior to construction.	Once.	United			

United Water Conservation District
Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Com- pliance Verifi- cation Initial	Com- pliance Verifi- cation Date	Com- pliance Verifi- cation Comments
biologist within the disturbance footprint plus a 100-foot buffer (300-feet for raptors if suitable raptor habitat is present), where feasible. As the proposed project is anticipated to occur in several phases, multiple pre-construction nesting bird surveys may be necessary to ensure active nest avoidance. Pre-construction nesting bird surveys shall be conducted during the time of day when birds are active and shall factor in sufficient time to perform this survey adequately and completely. A report or email of the nesting bird survey results, if applicable, shall be submitted to the United project manager for review and approval prior to ground and/or vegetation disturbance activities. If burrowing owls or signs of their activity are present in the project site, United shall consult with CDFW. If nests are found, their locations shall be flagged with bright orange construction fencing or other suitable flagging that is not harmful to wildlife. An appropriate avoidance buffer ranging in size from 25 to 50 feet for passerines, and up to 300 feet for raptors and listed species, depending upon the species and the proposed work activity, shall be determined and demarcated by a qualified biologist. Active nests shall be monitored at a minimum of once per week until it has been determined by the qualified biologist that the nest is no longer being used by either the young or adults. No ground disturbance shall occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed, and all the young have fledged. If project activities must occur within the buffer, they shall be conducted at the discretion of the qualified biologist. If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.	If project construction commences within the general bird nesting season (February 1 to September 15), retain a qualified biologist to conduct a pre-construction nesting bird survey and establish buffer areas, if necessary. Verify compliance with avoidance requirements.	No more than 7 days prior to site disturbance. During construction.	As needed within the project site, and as needed if work pauses for more than 7 days. As needed.				

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Com- pliance Verifi- cation Initial	Com- pliance Verifi- cation Date	Com- pliance Verifi- cation Comments
Cultural Resources							
CUL-1: Unanticipated Discovery of Cultural Resources							
In the event archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 50 feet of the find shall halt and the construction contractor shall immediately contact United's project manager. United shall contract an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) to evaluate the resource. If the qualified archaeologist determines the resource to be prehistoric, then a Native American representative shall also be contacted to participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the CRHR and significant impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of the California Code of Regulations (CCR) Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. United shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting	Require in the construction contract that work be halted and United's project manager immediately contacted upon discovery of an archaeological resource.	Prior to start of construction.	Once.	United			
	Retain a qualified archaeologist to evaluate the find and prepare a data recovery plan, if warranted.	As needed.	As needed.				
	Contact a locally-affiliated Tribe if the find is prehistoric.	As needed.	As needed.				
	Review and approve the archaeological testing and treatment plan, prepared by a qualified archaeologist.	As needed.	As needed.				

United Water Conservation District
Groundwater Recharge Capacity Expansion Project – Ferro Recharge

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Com- pliance Verifi- cation Initial	Com- pliance Verifi- cation Date	Com- pliance Verifi- cation Comments
documentation shall be submitted to the regional repository of the California Historical Resources Information System, per CCR Guidelines Section 15126.4(b)(3)(C).							
Geology and Soils							
GEO-1: Unanticipated Discovery of Paleontological Resources							
United shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. If a potential fossil is discovered during project construction, construction activity within 50 feet of the find shall cease until the discovery is examined by a Qualified Professional Paleontologist. If the find is determined to be significant, the Qualified Professional Paleontologist shall direct all mitigation measures related to paleontological resources consistent with the Society of Vertebrate Paleontology (2010) standards.	Verify a standard inadvertent paleontological resources discovery clause is in the construction contract.	Prior to issuance of construction bid packages for construction activities.	Once.	United			
	Retain a qualified paleontologist to evaluate the find and identify appropriate mitigation measures, if warranted.	As needed.	As needed.				
Noise							
NOI-1: Nighttime Construction Noise Reduction Measures							
For construction occurring between the hours of 10:00 p.m. and 7:00 a.m., United or its construction contractor shall reduce construction noise levels so as not to exceed a nighttime noise level of 70 dBA Leq (8-hour) at nearby residences. Strategies to achieve this may include, but are not limited to, the following noise reduction measures:	Verify implementation of noise reduction measures such that construction noise levels do not exceed a nighttime noise level of 70 dBA.	During construction occurring between 10:00 p.m. and 7:00 a.m.	As needed.	United			
Drill rigs will be controlled with the best available noise control technology. For example, drilling noise control may be achieved by shrouding the drill rig, shielding drilling noise with temporary noise							

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Com- pliance Verifi- cation Initial	Com- pliance Verifi- cation Date	Com- pliance Verifi- cation Comments
barriers, and/or by reducing exhaust noise with a sound-absorbing muffler. - Material hauling and deliveries shall be coordinated by the construction contractor to reduce the potential for nighttime truck trips. - Where feasible, hydraulic equipment shall be used instead of pneumatic impact tools, and electric powered equipment shall be used instead of diesel-powered equipment. - At least 21 days prior to the start of construction activities, residents within 500 feet of the proposed night work shall be notified of the planned construction activities. The written notification shall include a brief description of the project, the activities that would occur, the hours when construction would occur, and the construction period's overall duration. The notification shall include the telephone numbers of United's and contractor's authorized representatives that are assigned to respond in the event of a noise complaint. - If a construction noise complaint(s) is registered, the contractor shall retain a qualified noise consultant to conduct noise measurements at the properties that registered the complaint. The noise measurements shall be conducted for a minimum of eight hours. The consultant shall prepare a letter report for United summarizing the measurement results and potential measures to reduce nighttime noise to 70 dBA Leq (8-hour) at residences.							

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ATTACHMENT E

Notice of Determination

Appendix D

To:

☒ Office of Planning and Research
 U.S. Mail: Street Address:
 P.O. Box 3044 1400 Tenth St., Rm 113
 Sacramento, CA 95812-3044 Sacramento, CA 95814

☒ County Clerk
 County of: Ventura
 Address: 800 S Victoria Avenue
 Ventura, California 93009

From:

Public Agency: United Water Conservation District
 Address: 1701 North Lombard Street, Suite 20C
 Oxnard, California 93030
 Contact: Hannah Garcia-Wickstrum
 Phone: 805-525-4431

Lead Agency (if different from above):

Address: _____
 Contact: _____
 Phone: _____

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2024071176

Project Title: Groundwater Recharge Capacity Expansion Project - Ferro Recharge

Project Applicant: United Water Conservation District

Project Location (include county): unincorporated Ventura County

Project Description:

United Water Conservation District (United) operates and maintains approximately 600 acres of groundwater recharge basins, which are used to percolate water and recharge groundwater supplies with Santa Clara River water diverted at the Freeman Diversion. In previous years when conditions were dry with less precipitation, United did not have a need for additional groundwater recharge capacity as its current basins were sufficient to recharge the allowable amount of water United is permitted to divert from the Santa Clara River. However, with wetter conditions and above average precipitation occurring over the last two years, an opportunity exists to recharge additional surface water within the allowable diversion amounts. The Noble Basin and Ferro Basin, located along Vineyard Avenue, are among the groundwater recharge basins United operates. The Ferro Basin is not currently connected to United's diversion and recharge infrastructure and, as such, cannot be used for artificial groundwater recharge. United proposes to construct an undercrossing beneath Vineyard Avenue and install pipelines to connect the Ferro Basin to the Noble Basin, which would enable the conveyance of water to the Ferro Basin for artificial groundwater recharge. United estimates connecting the basins would, on average over time, provide capacity for an additional 2,000 to 3,000 acre-feet of groundwater recharge per year. Project construction would occur over approximately six to eight months, and would start as early as July 2025; however, in the event of project delays, United would delay construction to begin as late as June 2027. Construction activities would generally occur from 6:30 a.m. to 6:30 p.m., Monday through Friday; trenchless pipeline installation may require constant (24 hours a day, 7 days a week) construction activities. The proposed pipeline would be installed via open cut trench on either side of Vineyard Avenue, and via trenchless methods underneath Vineyard Avenue in accordance with California Department of Transportation requirements. The project would also involve grading and contouring of the embankments along the pipeline alignment and in the Ferro Basin to facilitate recharge.

This is to advise that the United Water Conservation District has approved the above
☒ Lead Agency or ☐ Responsible Agency

described project on October 9, 2024 and has made the following determinations regarding the above
 (date)
 described project.

1. The project ☐ will ☒ will not have a significant effect on the environment.
2. ☐ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
☒ A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures ☒ were ☐ were not made a condition of the approval of the project.
4. A mitigation reporting or monitoring plan ☒ was ☐ was not adopted for this project.
5. A statement of Overriding Considerations ☐ was ☒ was not adopted for this project.
6. Findings ☒ were ☐ were not made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval, or the negative Declaration, is available to the General Public at:

1701 North Lombard Street,, Oxnard, California 93030 or <https://www.unitedwater.org/key-documents/#ceqa>

Signature (Public Agency): _____ Title: Environmental Services Manager

Date: October 9, 2024 Date Received for filing at OPR: _____



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Craig Morgan, Chief Operations Officer
Randy Castañeda, Operations Supervisor — Water Treatment
J.D. Smallwood, Operations Supervisor — Water Distribution

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 4.1 Operations and Maintenance Department Monthly Report
Information Item

Staff Recommendation:

Receive this summary report from the Operations and Maintenance department regarding its activities for the month of September 2024.

1. Major Facilities Update

- **Santa Felicia Dam**
 - o On August 1st, 2024, the lake level was 1044.6' and on August 31st, 2024, the lake level had reduced to 1043.25' and is currently dropping due to reduced inflows, evaporation, and SFD Conservation releases.
 - o Santa Felicia Dam release flows remained consistent at approximately 20 CFS throughout August due to Habitat Flow requirements and the Inverted Siphon Project taking place at the Saticoy Facility.
 - o Weed abatement activities are ongoing and continuing at both the Piru Spreading Grounds and Lake Piru Recreation Area.
- **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**
 - o District staff operated the Freeman Diversion throughout the month of August, harvesting Santa Clara River flows, accommodating fish ladder by-pass flows, and delivering surface water to El Rio, PTP and PV pipelines while the Inverted Siphon Project takes place.
 - o Saticoy staff have finished discing critical recharge ponds at the Saticoy Spreading Grounds in anticipation of SFD's Conservation Release.
 - o Various Freeman maintenance activities taking place around the Saticoy Facility.
 - o Saticoy O&M staff facilitating with the Inverted Siphon Project.
 - o Traveling Screen #1 and #3 located at the Moss Screen Building have been successfully rebuilt and put back into service.
 - o Various clean-up activities are taking place around the Saticoy facility and the Freeman Diversion.

Agenda Item: 4.1 Operations and Maintenance Department Monthly Report
Information Item

- o Herbicide application tasks are ongoing and continuing near the Freeman Diversion and the Saticoy Spreading Grounds / Noble Basins.
- o Static water levels (distance of water from the well pad to the water table):

	2024	2023	2022
Saticoy	47'	16'	132'
El Rio	67'	79'	146'
PTP	65'-107'	76'-105'	117-150'

- **Oxnard-Hueneme (OH) Delivery System**

- o El Rio operators adjusted Fe/Mn Plant backwash inlet flow control valve to prevent redundant Plant failures.
- o UWCD staff responded to a major SCE power outage at El Rio treatment facility. Multiple resets of equipment needed to bring operations back in order.
- o El Rio operators assisted the contractor with repairs to chlorine building overhead crane.
- o El Rio staff obtained annual DDW mandated VOC, SOC samples from various OH wells.
- o UWCD staff assisted contractor with raising OH pipeline access hatch on Rose Ave.
- o El Rio operator monitored CalAm Water potholing of OH pipeline anode station as part of their November tie-in to UWCD distribution system.

- **Pleasant Valley County Water District (PVCWD)**

- o PVCWD received United's surface water supply, Saticoy wells, surface supply from Conejo Creek Project, and received highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).
- o 12% sodium hypochlorite injection continues at Saticoy's Moss Screen facilities for quagga mussel control.

- **Pumping Trough Pipeline (PTP)**

- o During August, the PTP system demand was met with surface water and Saticoy wells.
- o UWCD staff met with prospective contractors regarding the upcoming Recycled Water pipeline installation.
- o El Rio operators monitored completion of multiple isolation valve replacements for turnouts along the upper end of PTP system.
- o UWCD staff replaced solar powered flow meter and telemetry with battery-operated components.
- o El Rio operators performed monthly operational tests for the PTP emergency generators.

**Agenda Item: 4.1 Operations and Maintenance Department Monthly Report
Information Item**

- **Control Systems**

- o Participated in SCADA Disaster Recovery Drill
- o Participated in SFD Dam Improvement Project - 100% Design BOC
- o Assisted with PTP-MLM replacement
- o Saticoy Gate Camera Upgrade completed
- o A new transducer for the Ammonia Tank was installed and integrated SCADA
- o PTP Turnout Meter 126 replaced, and Radio antenna relocated
- o Installed temporary backup generator for Saticoy residence
- o Began first SCADA/PLC training session for IT interns
- o Began Valve Control Programming for OH Well #12 and #13
- o Installed Burglary Alarm System for old I&E Trailer
- o FeMn SCADA Navigation Pages Improvement
- o Chlorinator 5/6 Failover Flow Adjustments

- **Lake Piru Water System**

- o All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for August.
- o Monthly pH, turbidity and coliform samples were obtained for Lake Piru, as part of the Long Term 2 Enhanced Surface Water Treatment Rule compliance monitoring.
- o Basic maintenance and inspections are ongoing and continuing.

2. Operations and Maintenance Projects Update

- El Rio completed the monthly DDW Drought Tolerance report.
- El Rio staff continued to obtain drone footage of the Inverted Siphon Replacement project.
- Staff performed weed abatement at PTP and PV reservoirs.
- UWCD staff continued to work on a plan to automate isolation valves that will serve as a pressure relief station for the Iron/Manganese Plant raw water pipeline.
- El Rio operators made operational adjustments to comply with Voltus Demand Respond energy curtailment for OH well field.

3. Other Operations and Maintenance Activities

- Monthly bacteria samples were obtained for the PTP system.
- Monthly meter readings were obtained for OH, PTP and PV pipelines.
- Staff completed and electronically transmitted the monthly OH Surface Water Treatment Rule report to the State Water Resources Control Board Division of Drinking Water.
- Static water levels were obtained for all El Rio, Saticoy, and PTP wells.
- Weed abatement continued throughout the district.

4. Safety and Training

- Staff attended a safety meeting that focused on heat exhaustion.

**Agenda Item: 4.1 Operations and Maintenance Department Monthly Report
Information Item**

- Tailgate safety meetings were conducted at all individual O&M field locations and the topics included refresher training on equipment used at the various O&M locations; specifically, tailgate safety meetings were conducted prior to every commencement of maintenance activities at the Freeman Diversion.

Attachment: Operations Log for August

OPERATIONS LOG v 10/7/21																															
DATE	SANTA FELICIA DAM								FREEMAN DIVERSION**					RECHARGE					IRRIGATION					O-H							
	SFD El.	Stor.	Surface	Evap.	Inflow Balance	Outflow USGS	Hydro	Rain 106E	River	Diverted	Fish*** Facility	Bypass Channel	Crest	El Rio	Satcoyc Facility	Noble/Rose	Piru	T.I.D.	P.T.P.	PVCWD	L.P.	Satcoyc Wells	Total	Ci2							
	Ft.	A/F	Acres	Inches	Av. CFS	Av. CFS	Kw	Inches	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Misc CFS†	Weir CFS	Av. CFS	Av. CFS	A/F	A/F	A/F	%	A/F	A/F	A/F	Lbs.					
A/F*	68027				101,149	79,346			30.02	362,425	79,865	30,652	45,452		23,948	48387	22445	0.4	8,165	3,877	4,185		0.0	633	9,841	85,573					
8/1/24	1044.23	67971	1120	0.336	-1	19.6	0	0.00	78	44	34.4	0	0	38.66	-15	14.9	0	0.0	30.7	6.3	24.4	0.28	0.0	20.9	63.1	495	Sensor malfunction at Noble/Rose weir. Zero for entire month.				
8/2/24	1044.20	67938	1120	0.330	11	19.6	0	0.00	76	42	34.5	0	0	32.81	-24	31.78	0	0.0	24.8	8.7	16.1	0.19	0.0	23.1	68.6	580					
8/3/24	1044.43	68195	1121	0.333	157	19.6	0	0.00	72	38	34.5	0	0	23.37	2	0	0	0.0	46.4	8.9	37.5	0.51	0.0	22.7	64.1	521					
8/4/24	1044.40	68162	1121	0.324	11	19.6	0	0.00	79	41	37.6	0	0	47.29	1	0	0	0.0	7.9	8.3	0.0	0.00	0.0	21.2	62.1	542					
8/5/24	1044.36	68117	1121	0.312	4	19.6	0	0.00	80	41	39.5	0	0	43.27	0	0	0	0.0	16.7	16.7	0.0	0.00	0.0	22.5	67.9	516					
8/6/24	1044.32	68072	1121	0.331	5	19.6	0	0.00	80	41	38.6	0	0	25.56	3	0	0	0.0	47.8	17.5	30.3	0.37	0.0	22.8	57.5	510					
8/7/24	1044.28	68027	1120	0.352	5	19.6	0	0.00	71	39	31.3	0	0	20.07	1	0	0	0.0	60.1	14.9	45.2	0.58	0.0	23.4	62.6	463					
8/8/24	1044.24	67982	1120	0.293	4	19.6	0	0.00	72	41	31.2	0	0	19.99	1	0	0	0.0	62.9	20.9	42.0	0.52	0.0	23.8	59.4	401					
8/9/24	1044.19	67926	1120	0.315	-1	19.6	0	0.00	71	35	27.7	8.7	0	23.26	-3	0	0	0.0	51.9	12.7	39.2	0.57	0.0	22.8	58.8	421					
8/10/24	1044.15	67881	1119	0.390	6	19.6	0	0.00	74	42	32.5	0	0	28.76	2	0	0	0.0	45.3	12.7	32.6	0.40	0.0	23.8	61.0	433					
8/11/24	1044.11	67837	1119	0.312	5	19.6	0	0.00	80	40	39.5	0	0	45.41	3	0	0	0.0	8.4	8.3	0.1	0.00	0.0	23.9	54.3	382					
8/12/24	1044.07	67792	1119	0.299	4	19.6	0	0.00	75	41	34.3	0	0	36.53	1	0	0	0.0	29.4	13.7	15.7	0.19	0.0	23.0	61.1	454					
8/13/24	1044.02	67736	1118	0.317	-1	19.6	0	0.00	71	35	36.4	0	0	18.31	-2	0	0	0.0	58.8	8.1	50.7	0.74	0.0	22.3	60.2	549					
8/14/24	1044.00	67714	1118	0.310	16	19.8	0	0.00	72	39	32.4	0	0	17.94	1	0															



Staff Report

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Bernard Riedel Jr., Senior Park Ranger

Date: September 23, 2024 (October 9, 2024, meeting)

Agenda Item: 4.2 Park and Recreation Department Monthly Report
Information item

Staff Recommendation:

The Board will receive and file this staff report from the Parks and Recreation Department regarding its activities for the month of September 2024.

Discussion:

Labor Day weekend is the unofficial end to the summer season and visitation drops significantly at the Lake Piru Recreation Area (LPRA) afterwards, but year to date revenue surpassed that of 2023. The fall water release began out of the Santa Felicia Dam (SFD), the notifications for boating opportunities on Lower Piru Creek, as mandated by the Federal Energy Regulatory Commission (FERC), were disseminated to the appropriate stakeholders. Due to the dropping water level, swimming area at Juan Fernandez beach was closed for the season. Camp hosts Joann and Dan Perrault, a retired couple at the LPRA for over 10 years, have now retired to Arizona. A Bellingham Marine Industries (BMI) crew arrived at the LPRA to replace the marina that sustained significant damage during the heavy rainfall in the winter of 2023. This project is expected to last 60 days. Ranger Jordan Lundberg departed the LPRA for a career opportunity with the Santa Barbara Airport Police.

Staff Tasks and Activity Highlights

- **September 1:** Ventura County Sheriff's Office (VCSO) Search and Rescue (SAR) dive team conducted a training session at Lake Piru.
- **September 3:** BMI construction crew arrived at the LPRA and set up their work area.
- **September 4 - 12:** BMI workers dismantled and removed the old marina. Rangers used hot water pressure washer to decontaminate quagga mussels from

4.2 Park and Recreation Department Monthly Report

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approximately 600 floats used to support the marina to properly dispose.

- **September 11:** VCSO air operations and divers conducted simulated helicopter to boat rescue drills at Lake Piru.
- **September 18 - present:** BMI workers assembled the new marina.
- **September 22:** The LPRA hosted a personal watercraft training conducted by the United States Coast Guard Auxiliary (USCGA). USCGA regularly assists patrolling lakes during busy times, this training is necessary to effectively carry out their duties.
- **September 24:** Ranger staff hosted a public safety/law enforcement agency coordination meeting at SFD. This annual FERC mandated meeting was attended by representatives from United Water operations, VCSO, Ventura County Fire Department (VCFD), California Highway Patrol (CHP), Federal Bureau of Investigation (FBI), Fillmore Fire Department (FFD), Santa Paula Police Department (SPPD), and United States Forest Service.
- **September 26:** Production crew conducted a site survey at the LPRA in preparation for filming a documentary on native American Tribes in California.

Staff Training/Meetings/Events

- **Various dates:** Rangers completed training in case law, law enforcement policies and procedures, from District vendor Lexipol.
- **Various dates:** Rangers completed safety training from District vendor Target Solutions.

4.2 Park and Recreation Department Monthly Report

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Revenue and Visitation Recap

2024 Day Use/Other Revenue Recap and Comparison	
2024 Day Use/Other Revenue (Jan 1 – September 23)	\$479,011
2023 Day Use/Other Revenue (Jan 1 – September 23)	\$355,487
Total Revenue Increase/Decrease from Prior Year	\$123,524
Annual Increase/Decrease %	35%
2024 Camping Revenue Recap and Comparison	
2024 Camping Revenue (Jan 1 – September 23)	\$512,190
2023 Camping Revenue (Jan 1 – September 23)	\$497,929
Total Revenue Increase/Decrease from Prior Year	\$14,261
Annual Increase/Decrease in %	3%
Total Combined Revenue Current and Previous Year Comparison (2024 vs. 2023)	
2024 All Revenue (Jan 1 – September 23)	\$991,201
2023 All Revenue (Jan 1 – September 23)	\$853,416
Total Revenue Increase from Prior Year	\$137,785
Annual Increase/Decrease in %	16%

****It should be noted that the above figures have not been verified by the District's finance department***

2024 Total Visitation Figures				
Month	# People	# Vehicles	# Vessels	Pets
January	2,423	979	112	13
February	2,240	748	105	3
March	5,236	1,861	358	12
April	7,128	2,407	546	25
May	12,760	3,678	765	11
June	19,024	5,245	1,176	20
July	21,656	5,094	1,016	27
August	16,369	4,118	777	27
September	8,721	2,281	453	7
Total	95,557	26,411	5,308	145

4.2 Park and Recreation Department Monthly Report

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Incidents

- **September 1:** Ranger staff assisted the VCSO in the investigation of a verbal dispute between two campers. Ultimately, with the intervention of VCSO deputies and Piru Rangers, the campers quieted down for the night, with no further incident.
- **September 20:** Rangers notified 911 EMS after a 71-year-old male fell off his boat, hitting his head while preparing his boat for storage in the LPRA dry storage area. The male appeared delirious. VCFD arrived and assessed the male, he was then transported to the hospital.

Citations/Enforcement Summary

- Throughout September, no citations were issued for violations of District Ordinance 15 or for violations of the California Penal Code or the California Harbors and Navigation Code. It should be noted Ranger staff issued numerous verbal warnings for violations of District ordinances and state laws.

Grants

- Nothing to report.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Maryam Bral, Chief Engineer

From: Dr. Jason Sun, Supervisory Water Resources Engineer
Murray McEachron, Hydrologist Supervisor
John Lindquist, Water Resources Supervisor

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs) Information Item

Staff Recommendation:

Receive a report on Water Resources Department activities for the month of September 2024, including a summary of the activities of the Santa Paula Basin (adjudicated) Technical Advisory Committee and three local Groundwater Sustainability Agencies (Fox Canyon Groundwater Management Agency [FCGMA], Fillmore and Piru Basins Groundwater Sustainability Agency [FPBGSA], and Mound Basin Groundwater Sustainability Agency [MBGSA]).

Discussion:

Staff Activities

Notable efforts and activities conducted by staff during September included the following:

- Groundwater Modeling:
 - o Staff responded to and addressed questions related to FCGMA's groundwater sustainability plan (GSP) modeling results from DUDEK and others.
 - o Staff prepared and submitted a budget proposal for the West Las Posas modeling request from FCGMA.
 - o Staff are preparing to update the groundwater model for the Fillmore-Piru Basins Groundwater Sustainability Agency (FPGSA).
 - o Staff are preparing documentation for the groundwater model update/extension.
 - o Staff are assisting the City of Ventura in evaluating additional injection and recovery scenarios for indirect portable reuse (IPR) using United's groundwater model.

Agenda Item: 4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs) Information Item

- Hydrology:
 - o Staff are monitoring and coordinating with Operations for the implementation of releases at the Santa Felicia Dam and bypass flows at the Freeman Diversion.
 - o Staff continued to assist the Environmental Services and Engineering Departments in evaluating fish passage under consideration for United's Habitat Conservation Plan (HCP), particularly comments provided by NMFS and CDFW.
 - o Staff continued to provide surface water model inputs for the OPV GSP modeling update.
 - o Staff prepared and submitted a first draft Water Availability Analysis (WAA) to the Water Boards in preparation of a water right application.
 - o Staff continue to provide information to FPBGSA on technical issues.
 - o DWR/Flood diversion and recharge enhancement (FDRE) monthly funding report for the inverted siphon project.
 - o Staff continued collecting surface water data throughout the district's service area, following up with quality control, analysis, and reporting activities required or requested to support water resources management by United and other entities within our service area.
 - o Staff are developing presentations and images for the upcoming Sustainability Summit.
 - o Staff attended a DWR certification course for the ability to sign off on our water rights annual reporting.
- Hydrogeology:
 - o Staff continued collecting groundwater elevation and quality data throughout the District's service area, following up with quality control, analysis, and reporting activities required or requested to support water resources management by United and other entities within our service area.
 - o Staff continued to participate in planning and execution of Phase 1 of the EBB Water Project, including the following activities:
 - Oversee and direct contractors that are nearing completion of monitoring wells at Navy Base Ventura County (NBVC) Point Mugu.
 - Coordinate with contractors and analytical laboratories to plan for initial sampling of the new EBB monitoring wells.
 - Continue assisting with design of extraction wells.
 - Plan for a site tour by DWR staff, accompanied by Navy personnel and FCGMA's consultant (Kennedy-Jenks), who supports administration of the SGM Grant.

Agenda Item: 4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs) Information Item

- Continue planning for execution of specific EBB project tasks required under the recently awarded \$8.4 million grant from the State Water Resources Control Board (SWRCB), including establishment of technical and stakeholder advisory committees and meeting progress reporting requirements specified in the grant agreement.
- o Staff continued planning activities required for support of the first 5-Year GSP Update effort for the Fillmore and Piru Basins, which will commence in the coming months.
- o Staff participated in a virtual meeting with California-American Water Company's consultants to discuss water-supply options in the El Rio area.
- o Staff reviewed the FCGMA's 5-Year GSP Update reports for the Oxnard, Pleasant Valley, and Las Posas Valley Basins.
- o Staff participated in planning for Water Sustainability Summit #5, to be hosted by United on October 17.
- o Staff continue supporting development of United's strategic plan update.
- Outreach and Education
 - o Staff set up and attended an exhibitor booth at the Ventura County Agri-Tech Fair on September 10 hosted by the Ventura County Farm Bureau, fielding questions about water-supply issues in the region.
 - o Staff attended the "Community Leaders' Briefing on Water Supply Strategies" hosted by Calleguas MWD on September 16, featuring a panel discussion by Assemblymember Steve Bennett and Metropolitan Water District Chairman of the Board Adán Ortega.
 - o Staff from the Water Resources and Engineering Departments gave a joint presentation titled "United's Past, Current, and Future Roles in Water Resources Management on the Oxnard Plain" at the City of Oxnard Council Meeting on September 17.
 - o Staff attended the AWA Water Issues Committee meeting on September 17 and provided an update on watershed conditions.
 - o Staff attended a Groundwater Resources Association of California webinar titled "Leverage Domestic and Small Farm Wells to Cost-Effectively Fulfill Monitoring Program Goals" on September 25.

Fox Canyon Groundwater Management Agency (FCGMA)

Staff continue to monitor and, where appropriate, participate in the FCGMA's groundwater sustainability planning and implementation efforts in the Oxnard, Pleasant Valley, and West Las Posas Valley basins. United staff continued to meet periodically with FCGMA staff and other stakeholders to analyze benefits and impacts of water-supply projects in

Agenda Item: 4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs) Information Item

support of developing a sustainable, resilient water-supply portfolio for the service areas of both agencies, and to support the 5-year update of the Oxnard and Pleasant Valley Basin GSPs. United staff also attended and, where appropriate, contributed to, FCGMA Board and Committee meetings, as follows:

Board of Directors meetings – The FCGMA held a public workshop on the 5-year GSP updates for the Las Posas Valley Basin on September 9 and a similar workshop for the Oxnard and Pleasant Valley Basins on September 10.

The FCGMA held a special Board meeting on September 13, which included the following notable agenda items:

- Reimbursement of legal expenses incurred by the agency for Las Posas Valley Watermaster rules appeal.
- Consideration of the Las Posas Valley Policy Advisory Committee (PAC) recommendation to appoint Tony Morgan to serve as PAC Administrator.
- Approve FY 2022-23 \$1,000,000 loan from Surcharges Account to Operating Account.
- Hearing on adoption of Resolution 2024-05 extending a groundwater extraction fee at the current rate of \$20 per acre-foot to maintain a reserve fund to be used to pay the cost and expenses of actions and proceedings related to the Agency's groundwater sustainability program.

The FCGMA held a regular Board meeting on September 25, which included the following notable agenda items:

- Receive an update from Agency staff and a presentation from Dudek staff on the Agency's GSP Five-Year Evaluations.
- Adoption of Resolution 2024-05 extending a fee of \$20.00 per acre-foot on groundwater extractions to maintain a reserve fund to be used to pay the cost and expenses of legal actions and proceedings related to the implementation of the Agency's groundwater sustainability program.
- Receive a presentation on the proposed work plan and budget for Fiscal Year 2024-25 and adopt both.
- Receive presentations on and act upon several issues related to the Agency's role as the Las Posas Valley Watermaster.

The next regular Board meeting is scheduled for October 23.

Fillmore and Piru Basins Groundwater Sustainability Agency (FPBGSA)

Staff continue to participate in FPBGSA activities supporting SGMA compliance and GSP implementation for the Fillmore and Piru basins. United staff also attended and, where appropriate, contributed to, FPBGSA Board and Committee meetings, as follows:

Agenda Item: 4.3 Water Resources Department Monthly Report and Update on Activities of Local Groundwater Sustainability Agencies (GSAs) Information Item

Board of Directors meetings – The FPBGSA held a special Board meeting on September 5, which focused on contracting of consulting services for technical and logistical support. The FPBGSA held a special Board meeting on September 26, which included the following notable agenda topics:

- The Board held a public hearing and adopted its amended GSP for the Fillmore Basin.
- The Board held a public hearing and adopted its amended GSP for the Piru Basin.

The next Board meeting is scheduled for October 24.

Mound Basin Groundwater Sustainability Agency (MBGSA)

Staff continue to participate in MBGSA activities supporting SGMA compliance and GSP implementation for the Mound basin. United staff also attended and, where appropriate, contributed to, MBGSA Board and Committee meetings, as follows:

Board of Directors meetings – The MBGSA cancelled its regular Board meeting scheduled for September 23.

The next regular Board meeting is scheduled for October 28.

Santa Paula Basin Technical Advisory Committee (TAC)

Staff continue to participate in the Santa Paula Basin TAC in support of the Santa Paula Basin Judgment and in conformance with SGMA reporting requirements for adjudicated basins, as follows:

- Staff continue to evaluate data and develop the annual report for calendar and WY 2023 for Santa Paula Basin.
- Staff have been working with Finance Department staff and the Limoneira Company to determine the pumping history for wells operated by Limoneira near the boundary between Santa Paula and Fillmore Basins.



STAFF REPORT

To: **UWCD Board of Directors**

Through: Mauricio E. Guardado, Jr., General Manager
Anthony A. Emmert, Assistant General Manager

From: Josh Perez, Chief Human Resources Officer
Brian H. Zahn, Chief Financial Officer
Tony Huynh, Risk and Safety Manager
Zachary Plummer, Technology Systems Manager
Tracy Oehler, Executive Assistant/Clerk of the Board

Date: **September 26, 2024 (October 9, 2024, meeting)**

Agenda Item: **4.4 Administrative Services Department Monthly Report**
Information Item

Staff Recommendation:

Receive this staff report from the Administrative Services Department as well as receive a verbal presentation of its highlights for September 2024.

Discussion:

Finance

- Finalizing the development of a Strategic Rates Model to forecast water rates through 2040 based on various scenarios.
- Allowance for Doubtful Account to increase by \$460K for 06/30/24.
- FEMA out of money for 2024 year.
- Once payments begin, \$98M WIFIA loan will have a cost of \$7.2M per year for 30 years.

Administrative Services

- Provided administrative assistance for drafting, finalizing, distributing/posting materials, and room set up for two Committee meetings, Recreation (Sep. 4) and Finance and Audit Committee (Sep. 30), as well as the regular Board of Directors meeting (Sep. 11). Additionally, Fillmore and Piru Basins Groundwater Sustainability Agency meetings (Sep. 5, 26) held at the City of Fillmore.
- Coordinated logistical support with room and beverage setup for the following outside agency meetings: UC Cooperative Extension (Sep. 13, 20), AWA Board of Directors (Sep. 5), and AWA Water Issues Committee (Sep 17).

4.4 Administrative Services Department Monthly Report Information Item

Human Resources

- Coordinating open enrollment season for District Health Care, Flexible Spending Account, and AFLAC insurance to be effective January 1, 2025.
- Sent out open enrollment emails to all staff members and calculated new rates.
- Attended many CalPERS webinars to understand PPO Provider change and impacts.
- Continued to process end of fiscal year employee evaluations.
- Held second mandatory workplace violence prevention policy training on August 27th.
- Attended Active Incident Preparedness Event at the Ventura County Office of Education on August 28th.
- Held annual benefits presentation for all eligible District staff on September 18th.

Working on recruitments for the following positions:

- Chief Water Treatment Operator, interviews held September 18 and 23
- Park Ranger Cadet, initial interviews held September 20
- Assistant General Manager, position closed September 15

New Hires:

- Finalized selection of Luis Perez who will start in November as a Senior Control Systems Technician.

Risk and Safety Management

- Conducted annual fire safety and fire extinguisher training across multiple Departments (O&M, Environmental Services, Engineering, Finance, and Administrative Services).
- Provided security technology, dam siren, and radio communications updates to public safety partners at Annual Law Enforcement/Public Safety Consultation meeting at Santa Felicia Dam.
- Coordinated dam siren activation practice session for staff with the new radios.
- Implemented new security measures for Birders visiting Saticoy Facility.
- Separated FEMA Cat A Debris Project into Two Projects to capture 100% cost share for eligible work period.
- Also received \$32,000 in FEMA reimbursement through Cal OES on disaster recovery project at Freeman.
- In partnership with Control Systems team, hosted Calleguas Municipal Water District staff at District HQ to share security, radio, and IT systems and capabilities.
- Finalized hearing tests for selected Water Resources staff with field exposure to noise; also completed annual audit of the District's Hearing Conservation Program with Professional Supervisor (licensed Audiologist).
- Deployed new radios to key Executive Management staff.
- Supported Control Systems Team and Grant Task Force with Cybersecurity Grant.

4.4 Administrative Services Department Monthly Report Information Item

Technology Systems

Infrastructure and Device Management:

- **E-Waste Cleanup:**
 - o Completed a district-wide e-waste cleanup, eliminating obsolete technology and streamlining the asset inventory. This initiative reduced unnecessary equipment storage and aligned with overall device lifecycle management strategies.
- **New Technology Acquisition for 3D Modeling:**
 - o Acquired advanced 3D modeling equipment to enhance infrastructure mapping. This investment leverages existing GIS tools, providing improved visualization and planning capabilities for key infrastructure projects. The equipment has already been deployed in ongoing assessments, delivering more accurate data for future projects.
- **Wi-Fi Service at Lake Piru:**
 - o Supported the paid Wi-Fi service at Lake Piru by updating the inventory systems for another annual period of Wi-Fi sales. This ensures accurate device tracking and consistent service delivery, contributing to uninterrupted connectivity and sustained revenue generation.

Communications and Operational Support:

- **Cybersecurity Campaigns:**
 - o Baseline cybersecurity training was successfully rolled out, with the majority of staff completing the training on time. Ongoing phishing campaign reviews demonstrated positive results, significantly raising awareness of cybersecurity risks and reducing vulnerabilities.
- **Virtual Meeting Support:**
 - o Provided critical support for several virtual meetings, ensuring smooth operations for:
 - **MBGSA** (Mound Basin Groundwater Sustainability Agency),
 - **FPGSA** (Fillmore and Piru Basins Groundwater Sustainability Agency),
 - **UWCD Board of Directors Committee and General Meetings**,
 - **AWA** (Association of Water Agencies),
 - **Farm Bureau of Ventura**,
 - **California University Extended Education Seminars**, supporting water sustainability and management best practices.

Strategic Planning and Maintenance:

- **Software Upgrade Preparation:**
 - o Actively preparing for a major software upgrade of a critical software suite used daily across departments. Detailed planning is in progress to ensure a smooth transition with minimal disruption to business operations, and the

4.4 Administrative Services Department Monthly Report Information Item

upgrade is expected to improve system performance and enhance operational efficiencies.

- **Ongoing Network Improvements:**
 - o Gradual **network infrastructure improvements** were made across key operational facilities, focusing on optimizing performance and securing data flow. These enhancements contribute to overall network stability and ensure reliable connectivity for critical applications.
- **Grant Application for Cybersecurity Enhancements:**
 - o The **Grants Task Force** (Operations, HR, Risk, Finance, Environmental Sciences, and IT departments) collaborated to submit an about **~\$250,000 grant** application to the federal government for **cybersecurity enhancements** to the SCADA OT (Operational Technology) environments. Special credit goes to the Control Systems, Risk and Safety, and our Grant Task Force for their integral role in this process.
- **SCADA Disaster Recovery Drill:**
 - o On **August 22, 2024**, the district successfully conducted a **SCADA Disaster Recovery Drill**, with key contributions from a **Cybersecurity Advisor from CISA**. The agency's feedback provided invaluable insights into improving the district's **Cybersecurity Incident Response Plan**, addressing previously overlooked gaps. Their involvement also strengthened the team's confidence in handling potential cybersecurity incidents and laid the groundwork for enhanced response capabilities in future disaster recovery scenarios.

Infrastructure and Network Management

- **Network Enhancements:**
 - o Significant progress was made in optimizing district-wide network infrastructure. A key accomplishment in September involved updating the systems inventory for the paid Wi-Fi service at Lake Piru.
 - o The team also focused on gradual improvements across the network, aimed at enhancing system performance, security, and management capabilities.
- **LAN Segmentation:**
 - o The district's LAN (Local Area Network) was successfully segmented into four distinct locations—Lombard, El Rio, Saticoy, and Piru—which has laid the groundwork for more secure and efficient network operations.
 - o Each site now operates as a unique network object, providing improved control, management, and security across critical systems. These enhancements are especially important for high-priority applications that require uninterrupted service, contributing to the district's network reliability and scalability.



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado Jr., General Manager

From: Maryam A. Bral, Chief Engineer
Robert J. Richardson, Engineering Manager

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 4.5 Engineering Department Monthly Report
Information item

Staff Recommendation:

Receive this summary report from the Engineering Department regarding its activities for the month of September 2024. Please refer to the end of the report for a list of acronyms.

Discussion:

1. Santa Felicia Dam Safety Improvement Project

- September 6 – Staff e-filed the Revised Drilling Program Plan for the New Release Channel Design with an expected response from FERC by mid-October at the earliest.
- September 9 – Staff received a draft Hydrologic Hazard Analysis from GEI.
- September 10 – Staff traveled to Sacramento to meet with DSOD, GEI, and FERC to discuss differences of opinion regarding the kinematic slope stability analysis of the Intake Control Facility. The next step includes additional work by GEI and United to resolve the differences of opinion between the consultant and DSOD.
- September 13 – Staff received the finalized Board of Consultants Report No. 9 from the BOC and e-filed it with FERC.
- September 20 – Staff completed the final review of draft BAs prepared for the USFW and NMFS.

2. Lake Piru Recreation Area FIP

- September 5 – Staff conducted a preliminary review of the 30% plans in a discussion with Stantec.
- September 13 – Staff met with Stantec to review 30% design plans with the Parks and Recreation department.
- September 17 – Site meeting held with Parks and Recreation to evaluate immediate improvement needs at Olive Grove Restrooms.

4.5 Engineering Department Monthly Report Information Item

3. Freeman Diversion Expansion

- Staff continue to meet with special advisors and consultants.
- Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.

4. Freeman Conveyance System Upgrade – Freeman to Ferro

Three Barrel Culvert Replacement:

- There has been a significant delay in completing the review process with USACE and the timeline for issuance of a 408 permit is uncertain. Additionally, USACE has also requested key construction submittals for additional review and approval after a contractor is selected prior to construction start. Due to the uncertainty with the timeline for issuance of a permit, Staff anticipates the project will not be complete by the March 30, 2025, DWR SGMA grant deadline. However, the design documents for the project are complete and the project will proceed with construction once all applicable permits are secured.
- Staff provided information to K/J who is managing the DWR SGMA grant on behalf of the FCGMA. DWR has tentatively agreed to transfer grant funds to the Laguna Road Recycled Water Pipeline project.

Inverted Siphon Replacement:

- Weekly coordination meetings with Granite continued.
- Staff responded to contractor RFI's 7 and 8. RFI 7 related to barrier details, and RFI 8 clarified project grades.
- Staff performed a milestone inspection on September 5 for all below-water elements and determined the canal was ready to receive water deliveries.
- The bypass pumping system was demobilized by Herc Rentals on September 9 and 10.
- Water deliveries from SFD resumed on September 10, earth plugs upstream and downstream of the former inverted siphon (now the new bridge) were removed to resume pass-through flows. See **Figure 1**.
- Staff met with Lloyd Butler representative and confirmed their davit location adjacent to the bridge.
- Staff prepared the monthly data submittal for FDRE funding that supported the bypass pumping system.
- Staff met with the DWR SGMA Grant Manager on September 24 at the inverted site of the new bridge. See **Figure 2**.

Vineyard Avenue Crossing:

- Staff are working with design Consultant HDR to modify the scope of the current professional services contract to provide additional geotechnical

4.5 Engineering Department Monthly Report Information Item

engineering services that Caltrans has requested as part of their permitting process.

- Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.

5. SWP Interconnection Pipeline Project

- No updates to report for September.

6. OH Well 14 Energy Efficiency Upgrade

- No updates to report for September.

7. OH Water Well No.20

- No updates to report for September.

8. Iron and Manganese Treatment Facility

- September 8 – Preliminary review of laboratory results of waste solids samples. WM requested a site visit on September 26.
- September 5 – Requested construction bids for a pressure relief station from three potential contractors.
- September 5 - Updated draft OMMP.
- September 5 - Delivered Letter to DDW confirming successful three (3) months of operation and requested reduction in sampling requirements.

9. California American Water Emergency Use Interconnection to the OH Pipeline

- No updates to report for September.

10. Rice Avenue Grade Separation Project and Impact on PTP

- No updates to report for September.

11. PTP Metering Improvement Project

- September 9 – Staff held a call with the property owner regarding the outstanding utility easement deed for Turnout No. 156. The property owner is only willing to sign under conditions that are not favorable to the District. Staff is considering options for the completion of the project.
- Grants: See the Grants Task Force section as part of this report.

12. PTP Recycled Water Connection – Laguna Road Pipeline Project

- September 5 – Received Cal-OSHA Underground Classification.
- September 10 – Received four construction (4) bids.
- See the Motion Item requesting authorization for the General Manager to award a construction contract.

4.5 Engineering Department Monthly Report Information Item

13. Extraction Barrier and Brackish Water Treatment Project

- September 3 – Meeting held to discuss six (6) project implementation schedule alternatives (deadlines related to SWRCB grant, Navy water security plan, PHWA BWRDF lease, SGMA GW Basin Sustainability).
- September 4 – Received Discharge Alternatives TM prepared by K/J which is under review by District staff.
- September 10 – Performed electrical site survey with K/J electrical engineering and NAVFAC public works staff. Prepared and distributed summary notes.
- Continued to hold biweekly meetings with K/J and ESA.
- Continued to develop potholing bid documents to advance pipeline design.
- CEQA/NEPA/Permits: Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.
- Geotech/Hydrogeology: Please see the Monthly Water Resources Department Report for updates on the construction of new monitoring wells.
- Grants: See the Grants Task Force section as part of this report.

14. Asset Management/ CMMS System

- September 13 – Prepared RFP for AM Pilot and shared with four firms.

15. Grants Task Force:

- September 3 – Received notice from USBR that our \$300,000 Desalination and Water Purification Research Program (DWPR): Pitch to Pilot FY 2024 grant application was declined. This grant application was related to the EBB Water Treatment Project. District staff has requested a debrief with USBR staff.
- September 9 – Staff submitted a request to DWR for a one-year time extension for the WUE Grant related to the PTP Metering Improvement Project. This extended time is necessary in order to secure the remaining four easements.

16. Trainings and Conferences

- September 5 – Ventura County APWA September 2024 Meeting. Staff participated in the APWA Luncheon to see Linda Sumanski present the Ventura WaterPure Update and meet VCWPD staff (including the new VCWPD director).
- September 10 – Monthly Safety Meeting and Fire Extinguisher Training at Saticoy. See **Figure 3**.
- September 12 – Climate Adaptation for Water Online Public Forum.
- September 17 – AWA Water Issues Committee Meeting.
- September 17 – Tour of SFD for new Engineering Staff.

4.5 Engineering Department Monthly Report Information Item

17. Public Outreach

- September 12 – Maryam Bral presented "United's Recent Successes and Vision of the Future" at the Regional Defense Partnership-21 meeting. See **Figure 4**.
- September 17 – City of Oxnard Council Workshop Presentation: John Lindquist and Robert Richardson presented United's background and role in the Oxnard region, as well as the current major engineering projects. See **Figure 5** and **Figure 6**.
- September 24 – SFD Annual Public Safety Agency Coordination Meeting.
- September 27 – 2025 CalDesal Annual Conference Abstract submitted related to the EBB Water Treatment Project.

4.5 Engineering Department Monthly Report Information Item



Figure 1 - Water flowing under the new bridge (Inverted Siphon Replacement)



Figure 2 - SGMA Grant Manager Site Visit

4.5 Engineering Department Monthly Report Information Item



Figure 3 - Sonja Flores participating in the Monthly Safety Meeting and Fire Extinguisher Training at Saticoy on September 10



Figure 4 - Maryam Bral presenting at the Regional Defense Partnership Meeting

4.5 Engineering Department Monthly Report Information Item



Figure 5 - John Lindquist presenting to the Oxnard City Council



Figure 6 - Robert Richardson presenting to the Oxnard City Council

4.5 Engineering Department Monthly Report Information Item

Acronym Index

Acronym	Definition
AgWUE	Agricultural Water Use Efficiency
AM	Asset Management
APWA	American Public Works Association
BA	Biological Assessment
BOC	Board of Consultants
BWRDF	Brackish Water Reclamation Demonstration Facility
CalAm	California American Water
Cal-OSHA	California Division of Occupational Safety and Health
CEQA	California Environmental Quality Act
DBW	Division of Boating and Waterways
DCIP	Defense Community Infrastructure Program
DDW	Division of Drinking Water
DFA	Division of Financial Assistance
DSOD	Division of Safety of Dams
DWPR	Drinking Water Purification Research Program
DWR	California Department of Water Resources
EAP	Emergency Action Plan
EBB	Extraction Barrier Brackish Water
ESA	Environmental Science Associates
ESD	Environmental Services Department
FCGMA	Fox Canyon Groundwater Management Agency
FDRE	Flood Diversion and Recharge Enhancement
FERC	Federal Regulatory Commission
FGL	Fruit Growers Laboratory
FIP	Facility Improvement Project
GEI	GEI Consultants
GSE	GSE Construction Company, Inc.
GTF	Grant Task Force
GW	Ground Water
GWGP	Groundwater Grant Program
IRWM	Integrated Water Management Plan
IS-MND	Initial Study/Mitigated Negative Declaration
K/J	Kennedy Jenks Consultants
MKN	MKN & Associates
NAVFAC	Naval Facilities Engineering Systems Command

4.5 Engineering Department Monthly Report Information Item

NBVC	Naval Base Ventura County
NEPA	National Environmental Policy Act
NHC	Northwest Hydraulic Consultants
NRCS	Natural Resources Conservation Service
O&M	Operations and Maintenance
OH	Oxnard-Hueneme
OLDCC	Office of Local Defense and Community Cooperation
OMMP	Operation, Maintenance, and Monitoring Plan
PCSA	Professional Consulting Services Agreement
PFMA	Potential Failure Mode Analysis
PHWA	Port Hueneme Water Agency
PTP	Pumping Trough Pipeline
PVWCD	Pleasant Valley County Water District
QCIP	Quality Control and Inspection Program
RFI	Request for Information
RFP	Request for Proposals
SAME	Society of American Military Engineers
SFD	Santa Felicia Dam
SGMA	Sustainable Groundwater Management Act
SIP	Safety Improvement Plan
SWRCB	State Water Resources Control Board
TM	Technical Memorandum
USACE	United States Army Corps of Engineers
USBR	United States Bureau of Reclamation
USFW	U.S. Fish and Wildlife
VCWPD	Ventura County Watershed Protection District
VFD	Variable Frequency Drive
WM	Waste Management
WUE	Water Use Efficiency



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Anthony A. Emmert, Assistant General Manager

cc: Dr. Maryam Bral, Chief Engineer

From: Marissa Caringella, Environmental Services Manager

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 4.6 Environmental Services Department Monthly Report
Information Item

Staff Recommendation:

Review this summary report from the Environmental Services Department regarding activities for the month of September 2024.

Discussion:

1. Santa Felicia Project Operations and Federal Energy Regulatory Commission (FERC) License Support

Santa Felicia Dam Safety Improvement Project (SFDSIP)

On September 30, 2024, United Water Conservation District (United) submitted three SFDSIP environmental compliance and permitting documents to FERC. The documents included two Biological Assessments to support Endangered Species Act Section 7 Consultations with U.S. Fish and Wildlife Service and National Marine Fisheries Service (NMFS). In addition, an Environmental Assessment was submitted in compliance with the federal National Environmental Policy Act.

Water Release Plan and Water Release and Ramping Rate Implementation Plan

Under the Water Release Plan and FERC license for the Santa Felicia Project, United is required to make certain water releases from the Santa Felicia Dam for steelhead habitat and migration when specific triggers are met. Triggers for habitat water releases are based on cumulative rainfall within the water year. The measured cumulative rainfall for the current water year has exceeded the triggers for enhanced habitat water releases through October 1, 2024. The minimum required habitat water release from June 1 through October 1 is nine cubic feet per second. Starting October 2, 2024, the minimum required water release will be seven cfs through January 1, 2025.

4.6 Environmental Services Department Monthly Report Information Item

Habitat Improvement Plan

On September 4, 2024, United submitted a revised draft of the Lower Piru Creek Habitat Improvement Plan (HIP) and response to comments to NMFS for review and approval. The documents were also filed with FERC. Previously, United submitted a draft HIP to NMFS on May 8, 2023. On April 8, 2024, NMFS provided United with a comment letter on the May 8, 2023, draft including recommended revisions. NMFS' review and approval is required prior to FERC's approval of the HIP.

United Water Conservation District v. FERC, Court Case in Abeyance

On September 29, 2010, the U.S. Court of Appeals granted United a motion to hold the court case "United Water Conservation District v. FERC" in abeyance and directed United to file status reports every 60 days. United filed the court case to challenge the biological opinion issued by NMFS on FERC's issuance of a license for the Santa Felicia Project. On September 9, 2024, the eighty-fourth status update was filed with the U.S. Court of Appeals for District of Columbia Circuit.

2. Freeman Diversion Operations

During the month of September, Environmental Services Department staff (ES) supported Freeman Diversion operations and maintenance activities by coordinating with and providing notifications to resource agencies as needed, conducting surveys of dewatered areas, and providing on-site biological monitoring. The fish ladder remains operational.

On August 7, 2024, the California Department of Fish and Wildlife (CDFW) sent a revised draft Lake and Streambed Alteration Agreement (LSAA) for the Freeman Diversion Routine Maintenance Project. On September 3, 2024, ES submitted suggested revisions to the revised LSAA to CDFW. CDFW anticipates providing a final draft to United for execution in early October.

On September 19, 2024, ES and O&M staff escorted CDFW staff while they conducted snorkel and wading visual surveys for *Oncorhynchus mykiss* (*O. mykiss*) in the Santa Clara River upstream and downstream of the Freeman Diversion. No *O. mykiss* were observed.

3. Freeman Diversion Multiple Species Habitat Conservation Plan (MSHCP)

On September 12, 2024, NMFS issued a letter of denial regarding United's April 9, 2024 Incidental Take Permit (ITP) application. Staff is currently performing a detailed review of the ITP application denial and determining next steps.

On September 13, 2024, United submitted proposed findings of fact and conclusions of law per the June 17, 2024, order issued by Judge Carter. In addition to United's submittal, Wishtoyo Foundation, NMFS, and CDFW each provided submittals to the court. The next hearing in Judge Carter's court is scheduled on September 30, 2024.

4.6 Environmental Services Department Monthly Report

Information Item

4. Quagga Mussel Management

Throughout the month of September, ES continued conducting quagga mussel monitoring activities on Lake Piru, lower Piru Creek, and the spillway pool in accordance with the Quagga Mussel Monitoring and Control Plan. ES also continued quagga mussel veliger (larva) sampling in United's lower system. United staff continues to meet regularly with Pleasant Valley County Water District. Additionally, on September 4, 2024, ES conducted a reconnaissance survey for adult quagga mussels at the Freeman Diversion and downstream facilities. No living adult quagga mussels were observed.

During the weekend of September 6, 2024, scientific divers conducted quagga mussel control and monitoring activities at Lake Piru. The divers reported quagga die-off below 44 feet due to anoxic conditions.

Beginning on September 5, 2024, Recreation and O&M staff followed procedures outlined in United's *Unintended Operating Procedures for Cleaning, Decontaminating, and Inspecting Equipment Exposed to Areas Contaminated with Quagga Mussels* (February 2024) to decontaminate all pieces of the marina removed from Lake Piru. The removal of the marina and quagga decontamination was completed on September 12, 2024.

5. Capital Improvement Project Permitting and California Environmental Quality Act (CEQA) Support

During the month of September, ES continued to support Engineering Department staff with environmental permitting and CEQA compliance.

The comment period for the CEQA Initial Study Mitigated Negative Declaration (IS-MND) for the Groundwater Recharge Capacity Expansion Project – Ferro Recharge (Vineyard Undercrossing Project) ended on August 29, 2024. United received comment letters from the following agencies: CDFW, California Department of Transportation, Ventura County Air Pollution Control District, Ventura County Environmental Health Division, and Ventura County Public Works Watershed Planning and Permits Division. United has prepared a response to comments matrix to be posted on United's website with the final IS-MND, Mitigation and Monitoring Reporting Program, and Notice of Determination.

6. Grant Efforts

On September 24, 2024, United received notification from the US Bureau of Reclamation that the Freeman Diversion Fish Passage Rehabilitation Project was selected for an award of \$20 million through the WaterSMART Aquatic Ecosystem Restoration Projects grant funding program.

7. Miscellaneous

- On September 10, 2024, ES participated in the annual fire extinguisher safety training.

4.6 Environmental Services Department Monthly Report Information Item

- On September 24, 2024, the District submitted a comment letter to the California Fish and Game Commission (FGC) in response to their request for public input on the potential revision of FGC policies. United's letter addressed the current FGC Code of Conduct and Research policies.
- On September 24, 2024, the District submitted a letter to the California Natural Resources Agency regarding delays in the process to list Southern California Steelhead as endangered under the California Endangered Species Act. The letter was also sent to the FGC and CDFW.
- ES and Recreation staff are supporting Channel Islands Restoration in planning a community volunteer day for noxious weed removal at Lake Piru for October 25 or 26, 2024.



Staff Report

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Ph.D., P.E., Chief Engineer

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 5.1 Adopt a Resolution Approving the Revised Owners Dam Safety Program and Overarching Dam Safety Program Policy dated October 2024 (CIP 8002-8003)
Motion

Staff Recommendation:

Adopt a Resolution approving the revised Santa Felicia Dam Owners Dam Program, revision 10.0 dated October 2024, and the Overarching Dam Safety Program Policy.

Discussion:

The Board of Directors first adopted Resolution 2012-15 on October 10, 2012, adopting the Santa Felicia Dam (SFD) Owners Dam Safety Program (ODSP) as a policy of the District to demonstrate its continued commitment to dam safety. The ODSP was prepared in accordance with the Federal Energy Regulatory Commission (FERC) Engineering Guidelines and formalized existing practices into a District policy. The FERC considers the ODSP a “living document” that must be continuously updated.

Per FERC guidelines, ODSPs must undergo an independent external audit every five (5) years. In 2022, the District retained Gannett Fleming, Inc. (GF), to conduct an external audit of the ODSP for the SFD. As a result of the audit, GF prepared a report that included sixteen (16) recommendations for improving the SFD ODSP. In December of 2023, a plan and schedule to address the sixteen recommendations was e-filed with FERC. Most of the recommendations must be addressed no later than October 31, 2024.

One of the sixteen (16) recommendations resulting from the external ODSP audit included expanding the ODSP to indicate that the document serves as the District’s Overarching Dam Safety Program Policy. As part of addressing this recommendation, a Policy Synopsis Document dated October 2024 was developed to synopsize the principles and policies presented in the ODSP document. The Policy Synopsis Document is provided as Attachment C.

In addition to the development of the Policy Synopsis Document, the ODSP has been expanded and modified to address the remaining ODSP audit recommendations which include the development of a dam safety mentorship program, preparation of annual dam

5.1 Adopt a Resolution Approving the Revised Owners Dam Safety Program and Overarching Dam Safety Program Policy dated October 2024 (CIP 8002-8003) Motion

safety reports to the Board, development of a dam safety awareness training program, development of an ODSP annual self-audit template, among other improvements. Furthermore, updates to the ODSP reflect organizational changes. A strikeout draft of the revised ODSP has been provided as Attachment B.

Fiscal Impact:

No additional fiscal impact at this time. Staff will allocate the necessary budget on a fiscal year basis to ensure compliance with the ODSP and Overarching Dam Safety Policy.

Attachments:

Attachment A – Resolution - A resolution of the Board of Directors of the United Water Conservation District adopting the revised Owner’s Dam Safety Program

Attachment B – Santa Felicia Dam, Owners Dam Safety Program (October 2024) Rev. 10.0 *(Per Government Code Title 18 § 388.113 Critical Energy/Electric Infrastructure Information (CEII) this is a critical/confidential document. Board members will be provided hard copies.)*

Attachment C - Santa Felicia Dam, Owners Dam Safety Program, Policy Synopsis Document (October 2024) Rev 1.0 *(Per Government Code Title 18 § 388.113 Critical Energy/Electric Infrastructure Information (CEII) this is a critical/confidential document. Board members will be provided hard copies.)*

ATTACHMENT A

RESOLUTION

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT ADOPTING THE REVISED OWNER'S DAM SAFETY PROGRAM

WHEREAS, the United Water Conservation District ("District") owns and operates Santa Felicia Dam; and

WHEREAS, on October 10, 2012, the Board of Directors of United Water Conservation District adopted Resolution 2012-15, a formal declaration of the District's commitment to Dam Safety as policy; and

WHEREAS, the above-mentioned Resolution 2012-15 included the adoption of the Santa Felicia Dam Owner Dam Safety Program, a living document that must be continuously updated; and

WHEREAS, training, succession planning, program assessments, corporate accountability, and staff are some of the key elements of the Santa Felicia Owner Dam Safety Program; and

WHEREAS, recent organizational changes in District personnel warrant modification to the Santa Felicia Owner Dam Safety Program.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT AS FOLLOWS:

1. The District Board of Directors hereby adopts the revised Santa Felicia Dam Owner Dam Safety Program and the overarching Dam Safety Program Policy, within, dated October 2024, as a policy of the District, superseding Resolution 2012-15.
2. The foregoing recitals are true and correct and incorporated herein as if fully set forth.

PASSED AND ADOPTED THIS 9th DAY OF October, 2024

ATTEST: _____
Board President Sheldon G. Berger

ATTEST: _____
Board Secretary Catherine P. Keeling



Staff Report

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager

From: Dr. Maryam Bral, Chief Engineer
Robert Richardson, Engineering Manager
Dr. Zachary Hanson, Water Resources Engineer

cc: Brian Zahn, Chief Financial Officer

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 5.2 Approve a Construction Contract with Toro Enterprises, Inc., in the Amount of \$5,092,286 for the Construction of the Recycled Water Connection – Laguna Road Pipeline Project (CIP 8043)
Motion

Staff Recommendation:

Approve a construction contract with Toro Enterprises, Inc., in the amount of \$5,092,286 for the construction of the Recycled Water Connection – Laguna Road Pipeline Project (CIP 8043) subject to and conditioned upon United obtaining additional grant funding to cover the budget shortfall and authorizing the General Manager to execute the construction contract upon securing such additional funding.

Background:

United Water Conservation District (United) operates the PTP System, which was completed in 1986 to deliver surface water diverted from the Santa Clara River and groundwater pumped from five deep wells screened in the Lower Aquifer System to agricultural growers in the Oxnard Plain. The PTP System is used for the irrigation of agricultural crops, and it is located within approximately 3,500 feet west of the Pleasant Valley County Water District (PVCWD) system on Laguna Road in unincorporated Ventura County. In times of drought, these surface water and groundwater resources become strained or limited. The proposed Project will connect the two systems, expanding the regional use of recycled water in the Oxnard Plain. Recycled water supplies are provided from the City of Oxnard's Advanced Water Purification Facility, and potentially other sources, through PVCWD's system to United's PTP System.

The project site is south of the City of Camarillo and east of the City of Oxnard. The proposed Project includes approximately 2,268 linear feet of 24-inch PVC pipe (DR 18) and approximately 1,000 linear feet of 18-inch HDPE pipe (DR 11) along Laguna Road

5.2 Recycled Water Connection – Laguna Road Pipeline Project Construction Contract in the Amount of \$5,092,286 (CIP 8043)

Motion

between Wood Road on the east to approximately one mile east of East Pleasant Valley Road on the west. The HDPE pipeline will be installed underneath the Revolon Slough using the trenchless Horizontal Directional Drilling (HDD) method. The hydraulic analysis included in the preliminary design report determined that under typical operating pressures of the PTP and the PVCWD System, the design flow from the PVCWD System to the PTP System is anticipated to be up to 1,000 gallons per minute (gpm) for Phase 1. The Phase 2 project (not included in this motion) will include a booster pump station which will facilitate the delivery of recycled water under all operational scenarios, up to an estimated design flow of 4,340 gpm.

In September 2020, the Project was selected by the United States Department of Agriculture (USDA) Natural Conservation Resources Services (NRCS) and has been awarded \$347,231.94 in grant funding under the Environmental Quality Incentives Program (EQIP). In September 2022, the project was selected by the California Department of Water Resources (DWR) and Fox Canyon Groundwater Management Agency (FCGMA) to receive a total of \$2,651,500 in grant funding related to the Sustainable Groundwater Management (SGM) Act Implementation Grant for the Oxnard Subbasin. There are currently SGM Grant funds available within the Oxnard Subbasin and the Pleasant Valley Basin. United entered into discussions with DWR and FCGMA to explore options for transferring available grant funds to this Project. United received tentative confirmation that DWR and FCGMA were in agreement to reallocate the funds within the Oxnard Subbasin grant agreement and have initiated the amendment process which is anticipated to be finalized in October 2024. United is continuing to work with DWR, FCGMA, and PVCWD towards the potential reallocation of available grant funds from the Pleasant Valley Basin. This Project will support the sustainability goals of both the Oxnard Subbasin and the Pleasant Valley Basins. The Project has received, to date, \$2,998,821 in grant funds as follows (**Table 1**):

Table 1: Summary of Grants Received/Anticipated for the Project (CIP 8043)

<u>Grant</u>	<u>Grant Funding Amount</u>
USDA NRCS (Sep 2020, Sep 2024)	\$347,321
DWR SGM (Sep 2022)	\$2,651,500
Total Received to-date	\$2,998,821
DWR SGM (Pending; Oct 2024; Transfer to Project within Oxnard Subbasin and Pleasant Valley Basin)	\$1,450,000 to \$2,150,000
Total Anticipated Grants	Estimated at up to \$5,150,000

5.2 Recycled Water Connection – Laguna Road Pipeline Project Construction Contract in the Amount of \$5,092,286 (CIP 8043)

Motion

Discussion:

The project was solicited for construction bids using the online procurement service BidNet which includes a California Purchasing Group. The Notice Inviting Bids was published on BidNet on July 24, 2024. A mandatory pre-bid meeting was held at the project location on August 1, 2024, and seven (7) California Class A General Engineering Contractors capable of bidding the project as prime contractors attended the meeting. Questions from contractors were received until August 15, 2024. On September 10, 2024, four (4) bids were received as follows:

<u>Prospective Bidder</u>	<u>Bid</u>
Toro Enterprises, Inc.	\$5,092,286
J Vega Engineering, Inc.	\$5,277,450
Blois Construction, LLC	\$7,345,250
Dominguez General Engineering, Inc.	\$7,623,940

Based on the information provided, staff has verified that Toro Enterprises, Inc., and their sub-contractors, have satisfactory experience to perform the work. Staff recommends approval of a construction contract with Toro Enterprises, Inc. for the Recycled Water Connection – Laguna Road Pipeline Project.

The tentative construction schedule is as follows:

<u>Date</u>	<u>Activity</u>
October 9, 2024	Construction Contract Award
October 19, 2024	Execution of Construction Contract (contingent upon Project receiving additional grant funding)
October 23, 2024	Administrative Notice to Proceed
November 6, 2024	Construction Notice to Proceed 1 (HDD only)
December 12, 2024	Construction Notice to Proceed 2
March 15, 2025	Complete construction and implementation
March 31, 2025	Complete grant administration activities

The following sections further detail United's budget for this project and the need for additional grant funds to be able to award this construction contract.

For Fiscal Year (FY) 2024-2025, United's total Capital Improvement Project (CIP) Budget Allocation for this Project is \$4,950,713, including \$3,676,000 for construction. The District's design consultant's (MKN & Associates, Inc.) final design estimate for the Project ranged from \$4,115,120 to \$5,030,000. On September 10, 2024, four (4) bids were received with a low bid of \$5,092,286 (within 2% of the upper end of the engineer's final estimate). The FY 2024-2025 CIP Budget was developed in December 2023. The increased construction costs were predominantly driven by: (a) the inability to secure

5.2 Recycled Water Connection – Laguna Road Pipeline Project Construction Contract in the Amount of \$5,092,286 (CIP 8043)

Motion

timely utility easement agreements with private landowners, requiring the pipeline to be aligned within the public right-of-way; and (b) the necessity to install the pipeline underneath the County of Ventura Watershed Protection District's Revolon Slough facility using advanced HDD methods in order to mitigate risks associated with soft soils observed in the project area.

A detailed summary of the Project (CIP 8043) Budget and a breakdown of current and projected expenses for the Project is provided in **Table 2**, below.

Table 2: Project's (CIP 8043) Detailed Budget

Type	Project Budget through FY 2024-25	Current Expenses to-date	Total Projected Expenses through FY 2024-25
Project Administration	\$214,569.18	\$144,899.74	\$174,569.00
Design	\$847,934.21	\$405,622.50	\$630,000.00
Survey	\$24,687.12	\$8,128.50	\$20,000.00
Geotechnical	\$71,922.91	\$23,632.61	\$50,000.00
CEQA/Permits	\$115,600.00	\$78,741.87	\$115,600.00
Construction	\$3,676,000.00	--	--
Management	--	--	\$470,969.00
Contractor	--	--	\$5,092,286.00
Subtotal	--	\$660,824.22	\$6,553,424.00
Contingency		--	\$254,614.30 (5% of Construction Contractor Award)
Total	\$4,950,713.42	\$660,824.22	\$6,808,038.30

A summary of the Project's budget shortfall is provided in **Table 3**, below.

5.2 Recycled Water Connection – Laguna Road Pipeline Project Construction Contract in the Amount of \$5,092,286 (CIP 8043)
Motion

Table 3: Project (CIP 8043) Summary of Budget and Shortfall Amount

Description	Amount
CIP Budget through FY 2024-25	\$4,950,713
Current Expenses to-date	\$660,824
Total Projected Expenses through FY 2024-25	\$6,808,039
Funding Sources	
PT Pipeline (United)	\$1,697,242
Grants	\$2,998,821
Total Funding Sources	\$4,696,063
Total Estimated Budget Shortfall for FY 24-25	\$2,111,975

For United to meet its SGM grant obligation to complete the Project by March 31, 2025, United must award and execute a construction contract to ensure timely completion. United is pursuing the transfer of available SGM grant funding from the Oxnard Subbasin and Pleasant Valley Basin agreements, or others as determined available by DWR, in the amount of up to \$2,112,000 (includes contingency), which is subject to approval by DWR. Execution of a construction contract is contingent upon written notice from DWR confirming the transfer of available SGM grant funding.

Mission Goal:

Meets Mission-Related Goal B, System Reliability.

Fiscal Impact:

There is no fiscal impact related to this motion. The Fiscal Year 2024/25 budget (CIP 8043) currently has insufficient funds to cover the proposed contract amount of \$5,092,286. Authorization for the General Manager to execute a construction contract is contingent upon the Project receiving additional grant funding to cover the budget shortfall.

If the Project is not executed in a timely manner and United is not able to complete the Project by March 31, 2025, United may have to forfeit \$343,099 in grant funding that was already provided for design and environmental documentation services.

Attachment:

A – Construction Contract

ATTACHMENT A

AGREEMENT

THIS AGREEMENT, made and entered into on _____, 20__ by and between United Water Conservation District, a public corporation organized and existing under the provisions of California Water Code section 74000 *et seq.*, hereinafter referred to as "Owner," and

TORO ENTERPRISES, INC.

hereinafter referred to as "Contractor."

The parties hereto mutually covenant and agree as follows:

1. The Contract Documents, as that term is defined herein, are hereby incorporated in and made a part of this Agreement as though fully set forth herein. If there exist any provisions of local, state or federal laws, ordinances or regulations which are required to be expressly set forth in the Contract Documents and have not been included therein, such provisions are incorporated herein as if expressly set forth.

2. For and in consideration of the payments and agreements to be made and performed by the Owner as set forth in said Contract Documents, the Contractor agrees with the Owner to perform the Work generally described as **Recycled Water Connection - Laguna Road Pipeline Project (Specification No. 24-01)**.

And as more specifically set forth in the Contract Documents for which award of contract was made; to furnish at its own proper cost and expense all plant, labor, services, materials, tools, equipment, supplies, transportation, utilities, and all other items and facilities necessary therefor, as provided in the Contract Documents, and to do everything required therein. In accordance with the provisions of Section 3700 of the Labor Code, the Contractor will secure payment of compensation of its employees by acquisition of workers' compensation insurance or by qualification as a self-insurer.

3. The Contractor shall provide for payments on all required insurance policies, and shall obtain all necessary permits and licenses for performance of the Work. The Contractor shall furnish and remove all temporary work or structures, tools, equipment and appurtenances necessary to accomplish the Work contemplated by this Agreement and the Contract Documents, and shall be responsible for all loss and damage arising out of the nature of the Work during its progress and prior to Owner's acceptance, from the action of the elements and from any unforeseen difficulties which may arise or be encountered in the prosecution of the Work, and for all other risks of any description connected with the Work. The Contractor shall also be responsible for all expenses incurred by or in consequence of the suspension or discontinuance of Work, except where the Contract Documents expressly stipulate otherwise. In consideration of the foregoing, and for well and faithfully completing the Work within the stipulated time and in the manner shown and described in the Contract Documents and in accordance with the requirements of the Engineer, the Owner shall pay, and the Contractor shall receive as full compensation therefor, the prices set forth in the accepted Bid Proposal and herein, subject to additions or deductions as provided for in the Contract Documents. The total compensation to be paid to Contractor shall be computed on the basis of the units of work actually performed and

approved in accordance with the requirements of the Contract Documents and paid for at the prices stated by the Contractor in the Bid Schedule for final completion of the Work.

4. The Work shall commence within seven (7) days after the date specified in the Construction Notice To Proceed(s) issued by the Owner, and **shall be fully completed not later than March 15, 2025**. Time is of the essence for completion of the Work. If the Work is not fully completed in the time specified herein, plus any extension of time as may be granted by the Owner pursuant to the terms of the Contract Documents, the parties recognize: (a) that Owner will suffer financial damages which are, and will continue to be, impracticable and extremely difficult to ascertain; and (b) the delay, expense and difficulty involved in proving the actual damages suffered by Owner as a result of such delay. Accordingly, instead of requiring such proof, the parties agree that as authorized by California Government Code section 53069.85, Contractor shall forfeit and pay to Owner as liquidated damages, and not as a penalty, the sum of **Two Thousand Eight Hundred Sixty Dollars (\$2,860.00) for each calendar day past** final completion date. Such liquidated damages may be charged to the Contractor directly, or may be deducted from any payments due or to become due to the Contractor.

5. The Owner promises and agrees to employ, and does hereby employ, Contractor to provide the materials and to do the Work according to the terms and conditions herein contained and referred to, for the sum of **\$5,092,286.00 (Five million ninety-two thousand two hundred eighty-six Dollars)**, said sum being the total amount stipulated in the Bid Proposal, and hereby contracts to pay the same at the time, in the manner, and subject to the conditions set forth in the Contract Documents; and the parties for themselves, their heirs, executors, administrators, successors and assigns do hereby agree to the full performance of the covenants herein contained in this Agreement.

6. No work, services, material, or equipment shall be performed or furnished under this Agreement unless and until a written Notice to Proceed has been given to the Contractor by the Owner, in accordance with the Contract Documents. The Work under this Agreement shall be fully completed to the approval and entire satisfaction of the Owner and its Engineer.

7. The Contractor shall assume the defense of and indemnify and hold harmless the Owner, and its Engineer, the Owner's Representative, and their respective directors, officers, board members, employees, independent contractors, representatives, consultants, agents, and volunteers, and each of their respective successors and assigns, and each of them (collectively herein "Indemnitees") from and against:

a. Any and all claims, demands, causes of action, actions, proceedings, liens, judgments, damages, costs, expenses (including costs of defense and attorneys' fees), losses or liabilities, in law or in equity, of every kind or nature whatsoever for, including, but not limited to, (1) injury to or death of any person, including the Indemnitees; (2) damages to or destruction of property of any person, including the Indemnitees; (3) any failure or alleged failure to comply with any provision of law or the Contract Documents; or (4) other loss, damage, or expense, arising out of or in any manner directly or indirectly connected with the Work to be performed under this Agreement, caused in whole or in part by any negligent act or omission of the Contractor, or any Subcontractor, supplier, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except to the extent caused by the active negligence, sole negligence or willful misconduct of the Indemnitees;

b. Any and all claims, demands, causes of action, actions, proceedings, liens, judgments, damages, costs, expenses (including costs of defense and attorneys' fees), penalties or liabilities, in law or in equity, of every kind or nature whatsoever, arising out of, resulting from or on account of the violation of any existing or future governmental law, ordinance or regulation, specifically including, but not limited to, the safety of workers, compliance with which is the responsibility of Contractor, any Subcontractor, supplier, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

c. Any dispute between Contractor and Contractor's Subcontractors, suppliers, and/or sureties, including, but not limited to, any failure or alleged failure of the Contractor (or any person hired or employed directly or indirectly by the Contractor) to pay any Subcontractor or materialman of any tier or any other person employed in connection with the Work.

d. Any liens, stop notices, or assertion of security interests, including judgments and levies. If after written notice Contractor fails to address the lien, stop notice, or other security interest, the Owner may proceed to address the lien, stop notice, or claim and seek reimbursement from Contractor, either directly or by deduction from any payments due or to become due to Contractor.

Contractor shall give prompt written notice to the Owner of any litigation, mediation, arbitration or proceedings pending or threatened against Contractor or any Subcontractor or which relates to the Project and in which the amount in controversy is (or is reasonably likely to be, when aggregated with all related actions) equal to or greater than \$50,000. Contractor shall not (and shall not cause or permit any Subcontractor to) initiate or settle any litigation arising out of or related to the Project and/or any Work in which the amount in controversy is (or is reasonably likely to be, when aggregated with all related actions) equal to or greater than \$250,000 without Owner's prior written consent and Contractor shall keep Owner apprised of the status of any such litigation.

Contractor shall defend, at the Contractor's own cost, expense, and risk, any and all such aforesaid suits, actions or other legal proceedings of every kind arising out of or connected with the Work that may be brought or instituted against the Indemnitees. Contractor shall promptly, but in no event later than thirty (30) days following Owner's or Indemnatee's demand therefor, pay and satisfy any judgment, award, or decree that may be rendered against the Indemnitees in any such suit, action, or other legal proceeding. Contractor shall promptly, but in no event later than thirty (30) days following Owner's or Indemnatee's demand therefor, reimburse the Indemnitees for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Promptly after receipt by an Indemnatee of any claim or notice of the commencement of any action, administrative or legal proceeding, or investigation in connection with an actual or potential claim from a third party as to which any indemnity provided for in this Agreement and the Contract Documents may apply, the Indemnatee will notify the Owner and Contractor in writing of such fact. Any delay by an Indemnatee in notifying Contractor of any such claim or notice will not excuse Contractor of its obligations hereunder. Upon Contractor's receipt of such notice, Contractor shall assume, on behalf of the Indemnatee, and conduct with due diligence and in good faith, the defense thereof with counsel reasonably satisfactory to the Indemnatee; provided that the Indemnatee shall have the right at its own expense to be represented therein by advisory counsel

of its own selection; and provided further that if the defendants in any such action include both the Contractor and the Indemnatee, and if the Indemnatee shall have reasonably concluded that there may be legal defenses available to it which are different from, additional to, or inconsistent with those available to Contractor, then the Indemnatee shall have the right to select separate counsel to participate in the defense of such action on its own behalf and at Contractor's expense.

If any third party claim arises as to which any indemnity provided for in this Agreement and the Contract Documents may apply, and Contractor fails to assume the defense of such claim promptly after the receipt by Contractor of notification thereof, then the Indemnatee against which the claim is instituted or commenced may, at Contractor's expense, contest, or (with the prior written consent of Contractor, not to be unreasonably withheld) settle such claim; provided that no such contest need be made and settlement or full payment of any such claim may be made without Contractor's consent (with Contractor remaining obligated to indemnify the Indemnatee under this Agreement and the Contract Documents) if, in the written opinion of the Indemnatee's legal counsel, such claim is meritorious. All costs and expenses incurred by Indemnatee and/or the Owner in connection with any such contest, settlement, or payment may be deducted from any amounts due or to become due to Contractor under this Agreement and the Contract Documents, with all such costs in excess of the amount deducted to be reimbursed by Contractor to the Owner or the Indemnatee promptly following, but not later than thirty (30) days following, Owner's or Indemnatee's demand therefor. In the event and to the extent that the Owner makes a deduction as described in the preceding sentence, then Owner shall be responsible for making appropriate payments to any Indemnitees, and shall indemnify Contractor for any claims by the Indemnitees arising out of Owner's failure to make such payments.

The indemnification obligations herein shall survive the completion of the Work under the Contract and/or expiration or termination of the Contract.

Contractor agrees to carry insurance for this purpose as set out in the specifications. See Section I-14 of the Instructions to Bidders, entitled LIABILITY INSURANCE; and Article 7 of the General Provisions, entitled CONTRACTOR'S INSURANCE; and the Special Provisions for insurance specifications and coverage. Contractor's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by the Indemnitees. The indemnification obligations herein shall be in effect without regard to whether or not Owner, Contractor, or any other person maintains, or fails to maintain, insurance coverage, or a self-insurance program, for any such indemnified claims.

8. The Contract entered into by this Agreement consists of the following Contract Documents, all of which are component parts of the Contract as if herein set out in full or attached hereto.

- Notice Inviting Bids
- Instructions to Bidders
- Bid Proposal and Declaration
- Bid Schedule
- Information Required of Bidder
- List/ Designation of Subcontractors
- Bid Security Form and Bid Bond or other Bid Security
- Non-Collusion Declaration of Contractor
- Agreement Form
- Faithful Performance Bond
- Payment Bond

Non-Collusion Declarations of Subcontractors
All Required Insurance Policies and Endorsements
Notice to Proceed(s)
General Provisions
Special Provisions
Specifications
All Addenda as Issued
Drawings/Plans
Requirements, Reports and/or Other Documents Issued to Bidders

All of the above named Contract Documents are intended to be complementary. Work required by one of the above named Contract Documents and not by others shall be done as if required by all.

9. Wage rates for this Project shall be in accordance with the general prevailing rate of holiday and overtime work in the locality in which the work is to be performed for each craft, classification, or type of work needed to execute the Contract as determined by the Director of the Department of Industrial Relations. The following are hereby referenced and made a part of this Agreement and Contractor stipulates to the provisions contained therein: (a) Chapter 1 of Part 7 of Division 2 of the Labor Code (Section 1720 *et seq.*); and (b) California Code of Regulations, Title 8, Chapter 8, Subchapters 3 through 6 (Section 16000 *et seq.*).

10. If any term, covenant, condition, or provision of this Agreement or any of the Contract Documents is found by a court of competent jurisdiction to be invalid, void, or unenforceable for any reason, the remaining provisions shall continue in full force and effect without being impaired or invalidated in any way. If the court finds that any provision of this Agreement is invalid or unenforceable, but that by limiting such provision it would then become valid and enforceable, then such provision shall be deemed written, construed, and enforced as so limited taking into account the intent of the parties at the time of executing this Agreement.

11. In employing Contractor to perform the Work contemplated under the Contract Documents, the Owner has relied on the experience, expertise, and integrity of the Contractor. The rights and obligations of the Contractor under this Agreement shall therefore not be assignable without the prior express written consent of the Owner.

12. This Agreement constitutes the entire Agreement of the parties with respect to the subject matter, and no amendment, modification or alteration of the terms hereof shall be binding unless the same is in writing, dated subsequent to the date hereof and duly approved and executed by each of the parties. No oral understanding or agreement not incorporated herein shall be binding on any of the parties.

13. This Agreement, and the application or interpretation hereof, shall be governed exclusively by its terms and by the laws of the State of California. Venue for all purposes shall be deemed to lie within Ventura County, California, and any action to enforce this Agreement or for any remedies, damages, or other relief shall only be brought in either the state courts of the State of California in and for the County of Ventura or in the United States District Court, Central District of California.

IN WITNESS WHEREOF: The parties hereto have caused this Agreement to be executed as of the day and year first above written.

"OWNER"

"CONTRACTOR"

By: _____

License No(s). _____

Its: GENERAL MANAGER

Expiration Date(s): _____

[TITLE]

By: _____

By: _____

Its: _____

Its: _____

[TITLE]

[TITLE]

Address: For Giving Notice to Owner

By: _____

1701 N. Lombard Street, Suite 200
Oxnard, CA 93030

Its: _____

[TITLE]

NOTE: Contractor shall furnish, to the satisfaction of Owner's Attorney, verification that the persons signing this Agreement as Contractor or on behalf of the Contractor have authority and legal authorization to bind the Contractor. Where such verification is a Power of Attorney, it shall be an unrevoked power, and Contractor shall provide an original or certified copy of the original.

FAITHFUL PERFORMANCE BOND

Bond No. _____

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the UNITED WATER CONSERVATION DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to **TORO ENTERPRISES, INC.** (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: **Recycled Water Connection - Laguna Road Pipeline Project (Specification 24-01)** (hereinafter referred to as the "Public Work"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for said Public Work dated _____, (hereinafter referred to as the "Contract"), which Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, **TORO ENTERPRISES, INC.**, _____, the undersigned Contractor, as Principal, and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the UNITED WATER CONSERVATION DISTRICT in the sum of **Five million ninety-two thousand two hundred eighty-six** Dollars (**\$5,092,286**), said sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the bounded Contractor, his or her heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in said Contract and any alteration thereof made as therein provided, on his or her part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill guarantees of all materials and workmanship; and indemnify, defend and save harmless the Obligee, its officers and agents, as stipulated in said Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any change, extension of time, alteration in or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same, nor by any change or modification to any terms of payment or extension of time for any payment pertaining or relating to any scheme of work of improvement under the contract. Surety also stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any overpayment or underpayment by the Obligee that is based upon estimates approved by the Architect. The Surety stipulates and agrees that none of the aforementioned

MANDATORY FORM

changes, modifications, alterations, additions, extension of time or actions shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, modifications, alterations, additions or extension of time to the terms of the contract, or to the work, or the specifications as well notice of any other actions that result in the foregoing.

Whenever Principal shall be, and is declared by the Obligees to be, in default under the Contract, the Surety shall promptly either remedy the default, or shall promptly take over and complete the Contract through its agents or independent contractors, subject to acceptance and approval of such agents or independent contractors by Obligees as hereinafter set forth, in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages; or, at Obligees's sole discretion and election, Surety shall obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Obligees of the lowest responsible bidder, arrange for a contract between such bidder and the Obligees and make available as Work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the "balance of the Contract Price" (as hereinafter defined), and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages. The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable to Principal by the Obligees under the Contract and any modifications thereto, less the amount previously paid by the Obligees to the Principal, less any withholdings by the Obligees allowed under the Contract. Obligees shall not be required or obligated to accept a tender of a completion contractor from the Surety.

Surety expressly agrees that the Obligees may reject any agent or contractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal. Unless otherwise agreed by Obligees, in its sole discretion, Surety shall not utilize Principal in completing the Contract nor shall Surety accept a bid from Principal for completion of the work in the event of default by the Principal.

No final settlement between the Obligees and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

The Surety shall remain responsible and liable for all patent and latent defects that arise out of or relate to the Contractor's failure and/or inability to properly complete the Public Work as required by the Contract and the Contract Documents. The obligation of the Surety hereunder shall continue so long as any obligation of the Contractor remains.

Contractor and Surety agree that if the Obligees is required to engage the services of an attorney in connection with enforcement of the bond, Contractor and Surety shall pay Obligees's reasonable attorneys' fees incurred, with or without suit, in addition to the above sum.

In the event suit is brought upon this bond by the Obligees and judgment is recovered, the Surety shall pay all costs incurred by the Obligees in such suit, including reasonable attorneys' fees to be fixed by the Court.

MANDATORY FORM

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, 20____.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY:

By: _____

Attorney-in-Fact

The rate of premium on this bond is _____ per thousand.

The total amount of premium charged: \$_____ (This must be filled in by a corporate surety).

IMPORTANT: THIS IS A REQUIRED FORM.

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

Any claims under this bond may be addressed to:

Name and Address of Surety)

(Name and Address of agent or representative
for service for service of process in California)

Telephone: _____

Telephone: _____

MANDATORY FORM

A notary public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss.
COUNTY OF)

On _____, before me,
_____, personally appeared
_____, who proved on the basis of satisfactory evidence to be
the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me
that he/she/they executed the same in his/her/their authorized capacity(ies) as the Attorney-in-
Fact of _____ (Surety) and acknowledged to me that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public in and for said State

(SEAL)

Commission expires: _____

NOTE: A copy of the power-of-attorney to local representatives of the bonding company must be
attached hereto.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the UNITED WATER CONSERVATION DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to **TORO ENTERPRISES, INC.** (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: **Recycled Water Connection - Laguna Road Pipeline Project (Specification 24-01)** (hereinafter referred to as the "Public Work"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for said Public Work dated _____, (hereinafter referred to as the "Contract"), which Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, **TORO ENTERPRISES, INC.**, the undersigned Contractor, as Principal, and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the UNITED WATER CONSERVATION DISTRICT in the sum of **Five million ninety-two thousand two hundred eighty-six** Dollars (**\$5,092,286**), said sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the bounded Contractor, his or her heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in said Contract and any alteration thereof made as therein provided, on his or her part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill guarantees of all materials and workmanship; and indemnify, defend and save harmless the Obligee, its officers and agents, as stipulated in said Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any change, extension of time, alteration in or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same, nor by any change or modification to any terms of payment or extension of time for any payment pertaining or relating to any scheme of work of improvement under the contract. Surety also stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any overpayment or underpayment by the Obligee that is based upon estimates approved by the Architect. The Surety stipulates and agrees that none of the aforementioned changes, modifications, alterations, additions, extension of time or actions shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, modifications,

MANDATORY FORM

alterations, additions or extension of time to the terms of the contract, or to the work, or the specifications as well notice of any other actions that result in the foregoing.

Whenever Principal shall be, and is declared by the Obligee to be, in default under the Contract, the Surety shall promptly either remedy the default, or shall promptly take over and complete the Contract through its agents or independent contractors, subject to acceptance and approval of such agents or independent contractors by Obligee as hereinafter set forth, in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages; or, at Obligee's sole discretion and election, Surety shall obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee of the lowest responsible bidder, arrange for a contract between such bidder and the Obligee and make available as Work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the "balance of the Contract Price" (as hereinafter defined), and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages. The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable to Principal by the Obligee under the Contract and any modifications thereto, less the amount previously paid by the Obligee to the Principal, less any withholdings by the Obligee allowed under the Contract. Obligee shall not be required or obligated to accept a tender of a completion contractor from the Surety.

Surety expressly agrees that the Obligee may reject any agent or contractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal. Unless otherwise agreed by Obligee, in its sole discretion, Surety shall not utilize Principal in completing the Contract nor shall Surety accept a bid from Principal for completion of the work in the event of default by the Principal.

No final settlement between the Obligee and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

The Surety shall remain responsible and liable for all patent and latent defects that arise out of or relate to the Contractor's failure and/or inability to properly complete the Public Work as required by the Contract and the Contract Documents. The obligation of the Surety hereunder shall continue so long as any obligation of the Contractor remains.

Contractor and Surety agree that if the Obligee is required to engage the services of an attorney in connection with enforcement of the bond, Contractor and Surety shall pay Obligee's reasonable attorneys' fees incurred, with or without suit, in addition to the above sum.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including reasonable attorneys' fees to be fixed by the Court.

MANDATORY FORM

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, 20____.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY:

By: _____
Attorney-in-Fact

The rate of premium on this bond is _____ per thousand.

The total amount of premium charged: \$_____ (This must be filled in by a corporate surety).

IMPORTANT: THIS IS A REQUIRED FORM.

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative
for service for service of process in California)

Telephone:

Telephone:

MANDATORY FORM

A notary public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss.
COUNTY OF)

On _____, before me,
_____, personally appeared
_____, who proved on the basis of satisfactory evidence to be
the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me
that he/she/they executed the same in his/her/their authorized capacity(ies) as the Attorney-in-
Fact of _____ (Surety) and acknowledged to me that by his/her/their
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s)
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public in and for said State

(SEAL)

Commission expires: _____

NOTE: A copy of the power-of-attorney to local representatives of the bonding company must be
attached hereto.

TO BE EXECUTED BY EACH AWARDEE OF A SUBCONTRACT

NON-COLLUSION DECLARATION

The undersigned declares:

I am the _____ [Title] of **TORO ENTERPRISES, INC.**
[Name of Company], the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____
[Date], at _____ [City], _____ [State].

Signed: _____

Typed Name: _____

NOTICE TO PROCEED

TO: TORO ENTERPRISES, INC.

[CONTRACT Awardee]

FROM: Board of Directors, United Water Conservation District

NOTICE IS HEREBY GIVEN that you are authorized and directed to proceed with the following project in accordance with the Contract Documents:

[IDENTIFICATION OF PROJECT]

The documents checked off below have been received and are on file with the General Manager of United Water Conservation District:

Agreement, fully executed	[]
Payment Bond (100%)	[]
Faithful Performance Bond (100%)	[]
Worker's Compensation Insurance Certificate	[]
Liability Insurance Policy or Certificate, w/ Endorsements	[]
Non-Collusion Declarations	[]

A copy of the Award of Contract has been mailed by this District to the California Division of Apprenticeship Standards, Department of Industrial Relations.

Under the terms of the Contract Documents, work is to start within seven (7) calendar days after the Commencement Date set forth below and is to be fully completed within the time set forth in the Agreement.

UNITED WATER CONSERVATION DISTRICT

By: _____

Title: _____

Commencement Date:



STAFF REPORT

To: UWCD Board of Directors

Through: Mauricio E. Guardado, Jr., General Manager
Tony Emmert, Assistant General Manager
Dr. Maryam Bral, Chief Engineer

From: Marissa Caringella, Environmental Services Manager
Evan Lashly, Senior Environmental Scientist

Date: September 25, 2024 (October 9, 2024, meeting)

Agenda Item: 5.3 Approve an Amendment to the Professional Services Agreement with Cramer Fish Sciences for Final Analyses and Deliverables Associated with the Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan in the Amount of \$149,687
Motion

Staff Recommendation:

Approve an amendment to the professional consulting services (PCS) agreement with Cramer Fish Sciences in the amount of \$149,687 to develop final project analyses and deliverables associated with the "Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan" and authorize the General Manager to execute the amendment.

Background:

In April 2017, the District submitted a Fish Passage Feasibility Assessment Report for the Santa Felicia Project to the Federal Energy Regulatory Commission (FERC), National Marine Fisheries Service (NMFS) and California Department of Fish and Wildlife (CDFW). The Santa Felicia Project FERC license and 2008 biological opinion issued by NMFS require the District to evaluate fish passage feasibility and report the results. As noted in the report, implementation of trap and haul facilities (the preferred passage alternative identified by the panel of fish passage experts) is contingent on resolution of outstanding issues, including uncertainties regarding engineering and biological feasibility, and development of biological criteria that would trigger implementation.

On December 17, 2017, the District executed a contract with Cramer Fish Sciences to develop pre-implementation studies to address uncertainties. On March 20, 2018, Cramer Fish Sciences provided United with the "Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan" (study plan). The study plan outlined measures to fill in the following knowledge gaps associated with *Oncorhynchus mykiss* in middle Piru Creek: 1) population dynamics 2) number and size class of *Oncorhynchus mykiss* that can be removed without jeopardizing the viability of the existing population; and 3) most effective sampling

Agenda Item: 5.3 Approve an Amendment to the Professional Services Agreement with Cramer Fish Sciences for Final Analyses and Deliverables Associated with the Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan in the Amount of \$149,687 Motion

methods, locations, and seasons. The study plan is structured as a three-phase project. This work will result in high-caliber scientifically defensible research, lead to peer reviewed publication, and form the foundation from which United can evaluate the efficacy of interim passage operations and provide information for establishing biological criteria for triggering development of permanent fish passage facilities.

United and Cramer Fish Sciences implemented this work in April 2018. The first phase project activities were completed during FY 2018-19. The second phase project activities were initiated in fall 2019, interrupted in March 2020 due to COVID-19, and completed in Spring 2022. The third and final phase project field activities were initiated in Fall 2022, interrupted by storm flows and road damage in January 2023, resumed in Fall 2023, and completed in Spring 2024. The PCS agreement has been amended each fiscal year and funding for the studies has been allocated on an annual basis. Field activities are now complete, and this final amendment includes sample analysis, data compilation/analysis/modeling, and all final reports to close out the project.

Discussion:

The first phase of the study plan was aimed at gathering basic population dynamics information to inform the second phase of the study. The second phase of study was designed to be more extensive and included installation and monitoring of traps and electrofishing. The third phase of the study was designed to continue phase two activities to provide for two full years of information regarding trap operations (i.e., engineering feasibility) and fish movement (i.e., biological feasibility). Staff proposes this final amendment to complete all project data analyses and prepare final project deliverables, which is critical to fulfill the purpose and value of the study. The proposed amendment would increase the contract by \$149,687 and result in a total revised not-to-exceed amount of \$2,046,864.

A copy of the Amendment to the PCS agreement detailing Cramer Fish Science's complete proposal, including the scope of work and deliverables, proposed fee, and the project schedule, is included in Attachment A.

Mission Goal:

Meets Mission-Related Goal C, Regulatory and Environmental Compliance – Ensure long-term sustainability of all water sources within the District while complying with regulations.

Fiscal Impact:

Sufficient funds to cover the work anticipated to be completed (\$149,687) during Fiscal Year (FY) 2024-25 are included in the FY 2024/25 budget (Account No. 050-600-52220-4340-300).

Agenda Item: 5.3 Approve an Amendment to the Professional Services Agreement with Cramer Fish Sciences for Final Analyses and Deliverables Associated with the Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan in the Amount of \$149,687
Motion

Attachment A – Ninth Amendment to Professional Consulting Services Agreement for Environmental Consulting Services in Support of the Santa Felicia Fish Passage Pre-implementation Studies – Cramer Fish Sciences

ATTACHMENT A

NINTH AMENDMENT TO AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES

This Amendment to the Agreement for Professional Consulting Services is entered into as of _____, 2024, by and between **United Water Conservation District** (UNITED), a public entity, and **Cramer Fish Sciences** (CONSULTANT) with reference to the following terms and conditions:

WITNESSETH

WHEREAS, on December 17, 2017, UNITED and CONSULTANT entered into a Professional Consulting Services AGREEMENT for the purpose of developing a study plan and providing specific support in United's effort to pursue fish passage at the Santa Felicia Project, and subsequently entered into amendments to the AGREEMENT to implement the study plan including a FIRST AMENDMENT on May 11, 2018, a SECOND AMENDMENT on May 21, 2019, a THIRD AMENDMENT on June 19, 2019, a FOURTH AMENDMENT on July 11, 2019; a FIFTH AMENDMENT on July 13, 2021; a SIXTH AMENDMENT on December 16, 2021; a SEVENTH AMENDMENT on November 10, 2022, an EIGHTH AMENDMENT on January 25, 2024 and;

WHEREAS, UNITED and CONSULTANT have discussed and agreed to amend certain terms and conditions of the AGREEMENT, the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, and EIGHTH AMENDMENTS involving scope of work, and compensation as specified in this NINTH AMENDMENT.

NOW, THEREFORE, based on the covenants and considerations set forth, UNITED and CONSULTANT mutually agree as follows:

1. The not-to-exceed total charge described in the AGREEMENT the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, and EIGHTH AMENDMENTS is hereby increased by \$149,687. This amendment results in a total revised not-to-exceed amount of: \$2,046,864 as total payment inclusive of all services.
2. The Scope of Work included as Exhibit A of the AGREEMENT, Attachment A of the FIRST AMENDMENT, Attachment A of the SECOND AMENDMENT, ITEM 2 of the THIRD AMENDMENT, Attachment A of the FOURTH AMENDMENT, Attachment A of the SIXTH AMENDMENT, Attachment A of the SEVENTH AMENDMENT, and Attachment A of this EIGHTH AMENDMENT is hereby amended to include the Scope of Work included in Attachment A of this NINTH AMENDMENT.
3. The term of the AGREEMENT, the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, and EIGHTH AMENDMENTS is hereby extended to expire on December 30, 2025.
4. Each and all other provisions of said AGREEMENT and the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, and EIGHTH AMENDMENTS remain in full force and effect and apply to all services and payments made under this NINTH AMENDMENT.

UNITED WATER CONSERVATION DISTRICT

By _____
Mauricio E. Guardado, Jr., General
Manager

CRAMER FISH SCIENCES

By _____
(Joseph E. Merz, President)

SANTA FELICIA DAM *O. MYKISS* PASSAGE PROGRAM

Pre-Implementation Study – Phase 4 Scope of Work, Part 2 9 September 2024 – 30 May 2025

In support of United Water Conservation District (United), Cramer Fish Sciences (CFS) developed the Santa Felicia Dam (SFD) Fish Passage Program Pre-Implementation Study Plan (Study Plan) to provide United a detailed road map for executing a suite of priority studies over the next several years (2018-2024). Information acquired from this Study Plan is intended to inform further development of a fish passage program that will address reasonable and prudent alternatives (RPA 3). Within the biological opinion, RPA 3 states that United is required to “implement a plan to provide steelhead passage around SFD or a suitable alternative to passage.” The Study Plan builds on the Santa Felicia Dam Fish Passage Alternatives Feasibility Report (Panel Report), which identified unforeseen issues that may arise during the implementation phase of a fish passage program that could reduce the feasibility of fish passage at SFD. To address these uncertainties, the Panel Report recommended an implementation process that included pre-implementation studies, the formation of a Fish Passage Science and Technology Panel (FPSTP), and development of an Implementation and Adaptive Management Plan (IAMP). The overarching study plan goal is to fill crucial knowledge gaps limiting the understanding of southern California steelhead (*Oncorhynchus mykiss*) in Piru Creek, including the assessment and long-term maintenance of the *O. mykiss* population above Lake Piru. The Study Plan outlines three years of activities. However, due to project delays caused by COVID-related shutdowns and flooding in 2023, the total project duration has extended beyond the original schedule. The project “years” outlined in Study Plan are now referred to as “phases” to maintain clarity, but the overall scope of activities has not changed.

This is a scope and budget estimate for the final phase (Phase 4 Part 2) of SFD passage program pre-implementation studies. Phase 4 tasks are divided into two parts to account for United’s fiscal year starting on July 1. Phase 4 Part 1’s main objectives were to conduct population surveys, operate PIT tag antennas, and evaluate low-tech downstream migrant traps on middle Piru Creek (see Phase 4 Part 1 SOW for more information). The goals of Phase 4 Part 2 will be to synthesize information collected during pre-implementation studies that will improve the likelihood of developing and implementing a successful fish passage program. Results of the pre-implementation studies will be shared with the FPSTP and allow for information feedback into the IAMP.



Task 1: Wrap up Tasks from Part 1 Budget

\$ 6,502

Task 1 consists of completing Phase 4 Part 1 tasks that could not be completed before July 1, 2024.

Subtasks

Task 1.1 Scale sample preparation, imaging, and aging

- Preparing and aging *O. mykiss* scale samples collected during population surveys and trapping studies. These data will be used to create length-at-age keys, which will support the inference of potential life-history pathways and mean annual growth rates.

Deliverables

- Images and ages of all processed *O. mykiss* scales.

Task 2: Data Management, Analysis, and Reporting

\$91,726

Within this task, CFS will continue analyses started in annual reports, including the summarization of results from all phases of pre-implementation studies, developing a Piru specific lifecycle model, conducting a genetic based population analysis, and drafting of biological triggers for phased implantation. Data collected during Phase 4 Part 1 will be reviewed for errors and joined with previous phases of the pre-implementation study. The goal of this task is to provide United with the highest caliber and scientifically defensible research focused on implementing *O. mykiss* passage program, as outlined in RPA 3. Reports from this task will provide a foundation from which expectations of trap performance can be grounded, as well as a better understanding of the tradeoffs between competing alternatives relative to their efficiency in safely capturing out-migrating *O. mykiss*. Additionally, information acquired can be integrated into adaptive management plans.

Subtasks

Task 2.1 Data management and QA/QC

- Data from Phase 4 Part 1 will undergo electronic quality assured/quality control (QA/QC) and combined with data collected across all phases. The study-specific data is imported as a tabular data object into the R software environment. The data table of detections is QA/QC'd with a collection of standardized, reproducible R functions sourced from available open-source R packages or specially written functions to accompany the project.

Task 2.2 Data summary and analysis

- CFS will generate an estimate of yearly *O. mykiss* abundance using the Generalized Random Tessellation Sampling (GRTS) sample sites for all phases. Analytical methods for expanding fish counts at GRTS sites to a population estimate (with a measure of uncertainty) are confidently applied in other salmonid monitoring programs, such as the California Coastal Monitoring Plan (Adams et al. 2011, Kermorvant et al. 2019).



Population estimates are crucial for anticipating the timing and number of potential migrants, predicting life-history pathways, and monitoring and evaluating passage program effectiveness over time. Population size, including the relative number of individuals available to potential management actions (such as trapping and removal of individuals from a population) can have significant ramifications on long-term population success (Knoerr et al. 2022).

- Two low tech trap methodologies were operated concurrently on middle Piru Creek to better understand the tradeoffs between their efficiency and operation capturing out-migrating *O. mykiss*. The two traps provided a comparison of potential effort, efficiency, and debris tolerance between the methodologies. Results of downstream potential migrants trapping provides information on trap operation, including impacts of flow variation and magnitude, sediment and debris loads, and trap location. Additionally, results will provide information on the number of potential migrants, and how passage operations will impact sensitive species (e.g., arroyo toad *Anaxyrus californicus*) within the project site. This information will support United's design of interim and permanent downstream migrant trapping operations and maximize the likelihood of the passage program's success.
- CFS will estimate populations demographics of the middle Piru Creek *O. mykiss* population. Population age structure and growth are valuable for inferring potential life-history pathways. Determining life-history pathways and growth rates will be important for estimating potential number, timing, and size of downstream migrants. Individual age and length data from scale annuli will be used to construct an age-length key for *O. mykiss*. The amount of time and effort to age individuals is much larger than measuring fish length. Thus, an age-length key will be cost effective to estimate the probability of age as a function of fish length once enough samples have been collected.
- CFS will summarize *O. mykiss* detected at stationary antenna locations along the date, time, and environmental conditions (i.e., flow rate) at the time of detection. This data will enable United to identify the flows under which downstream migrant traps must operate and the number of potential migrants that may be captured. The results of the PIT tag antenna array will support the linkages between environmental conditions (e.g., flow and length of day) and emigration. Phase 4 Part 1 operated with only one antenna for most of the season when the upper antenna blew out in a storm.

Task 2.3 Harvest and life cycle model for middle Piru Creek Watershed

- CFS will provide a detailed diagram of potential pathways for completing the *O. mykiss* life cycle (i.e., life-history pathway) in the middle Piru Creek watershed. This will include a mathematical model predicting the various life-history pathways (i.e., resident or anadromous) given known environmental conditions specific to middle Piru *O. mykiss*. We will evaluate scenarios that have the greatest influence on the number of potential migrants and viability of the population.
- Models will be constructed as flexible tools that users can adjust to account for changes in the system, such as wet or dry years, population increases, potential contribution of adult *O. mykiss* passed upstream of SFD, and removal of emigrating juveniles from the population. Collectively, these models should allow United to estimate the number of potential migrants under different scenarios, inform biological trigger criteria for passage phased implementation, guide trapping operations, and determine potential management action effects on the population.



- The Southern California *O. mykiss* life cycle model that CFS previously developed will act as the framework for the Piru specific model. However, that model is currently broad in scope (DPS level) and isn't tuned to the Piru Creek watershed. The theoretical model will be parameterized with data collected by CFS, United, and relevant literature. See the Southern California Life cycle model developed for United by Ross and Merz in 2024 for more information.
- CFS will develop a harvest model that will allow United to estimate the maximum number of out migrants that can be sustainably passed downstream from the upstream population. Output from these models will also allow United to predict operational costs and budget based on sustainable passage numbers.
- This model should allow United to set quotas on the number of juvenile *O. mykiss* that can be sustainably transported downstream of SFD based on multiple factors including the number of adults that were previously passed upstream of SFD.
- CFS will develop documentation on lifecycle pathways for moving *O. mykiss* through the model.

Task 2.4 Final report, biological trigger outline

- The final report will summarize analyses from Task 2.2. Data collected from all phases of SFD passage program Pre-implementation studies will be synthesized into a final report, which will provide United the information to design and operate a successful downstream migrant trapping program. CFS will make recommendations on the optimal trapping methodology and the traps' ability to safely and effectively pass *O. mykiss* based on pre-implementation studies. The feasibility of preferred alternative D7 will be reviewed considering the results of the trapping evaluation. The final report will optimally lead to peer-reviewed publication upon completion.
- Information from pre-implementation studies and the Piru life cycle model will be used to draft an outline of biological triggers to present at the FPSTP meeting. Defining specific "biological triggers" is the responsibility of the FPSTP, as described in the IAMP. Biological triggers will be used to identify modifications that must be made to existing or future facilities to increase capacity or efficiency.

Task 2.5 Respond to United report edits

- Draft reports will undergo two rounds of edits with United.

Deliverables:

- Tabular summaries of fish captured, fish tagged, and individual *O. mykiss* information (e.g., length, weight, condition), general capture location (lat, long), and field notes from all phases of data.
- A final report summarizing the results of SFD passage program pre-implementation studies.
- Calibrated Piru creek watershed lifecycle model and model documentation.
- A draft outline of biological trigger criteria for phased passage implantation.



Task 3: Project Management

\$19,229

Coordinating project activities requires communication among multiple study participants including United, CFS, and resource management agencies, among others. It is essential we maintain clear lines of communication between these parties, so CFS team members will: 1) coordinate Phase 4 Part 2 project activities; 2) provide regular updates to United staff, and 3) prepare monthly invoices that detail activity and time spent on this project; and 4) take part in an FPSTP meeting. Collectively, this effort will ensure expedient completion of an effective passage program.

Subtasks

Task 3.1 Coordinate analysis and reporting

- Meetings and communication to facilitate analysis and reporting.

Task 4.2 FPSTP meeting and communications with United

- CFS will present pre-implementation study results and recommendations at one virtual FPSTP meeting.
- Based on the Panel Report, the FPSTP will coordinate and oversee the phased IAMP establishment, as well as the development of biological criteria to trigger formal implementation of permanent fish passage facilities.

Task 4.3 Monthly invoice review

- Review monthly invoices for accuracy.

Task 4.4 California Department of Fish and Wildlife permit reporting

- Data summaries and QA/QC for mandatory wildlife reporting for scientific collection permit.

Deliverables

- Virtual CFS presentation at one FPSTP meeting.

Task 4: Genetic Analysis and Close Kin Mark Recapture Modeling

\$32,230

Within this task, CFS will continue genetic analysis of Piru watershed samples and conduct close kin mark recapture (CKMR) modeling. A subsample from tissues from Phase 2C, 3, and 4 will be plated, genotyped and analyzed using similar methods for Phase 1 and 2 samples. Genotypes from all phases will be used to inform the CKMR analysis. CKMR is similar to other mark-recapture techniques for estimating population size in terms of theory and calculations (Bravington et al. 2016). However, genotypes are used instead of traditional marks like PIT tags.



Parents mark their offspring and offspring mark their parents. Samples will be selected from previously aged fish which will allow parent/offspring and full sibling pairs to be distinguished. A CKMR model can incorporate a variety of familiar relationships to estimate population abundance. Full-siblings and parent offspring pairs have nearly identical posterior probability distribution (relative to true unrelated pairs). Based on the high levels of related pairs found in Phases 1 and 2, we estimate that roughly 100 samples from each of the remaining phases (2C, 3, and 4) are sufficient for the CKMR and genetic analysis.

Close-Kin Mark-Recapture analysis of additional phases will provide several benefits: (1) Each additional phase added to the CKMR analysis will strengthen the population estimate for the previous year by adding parent/offspring pairs, (2) CKMR will provide an additional population estimate to compare to GRTS based estimate and fill in gaps when traditional methods were limited by weather or feasibility, (3) additional phases will also provide a diversity of water year types to compare (Phases 1 and 2 were collected under drought conditions). Note that a gap in collections from 2020-2021 due to COVID 19 related shutdowns may affect relatedness calculations in some phases.

In addition to the CKMR analysis, genotypes will be analyzed to provide information on life history (OMY5 frequency), genetic diversity, effective population size, the number of successful breeders, and sex ratio. Identifying OMY5 allele frequency and sex ratios within the population estimates will aid our understanding of the potential for *O. mykiss* in middle Piru Creek to express anadromous life history strategies. Effective population size (N_e) is one of several important viability metrics. Genetic diversity, genetic drift, and rate of inbreeding within a population are governed by N_e , not the population size (N). As such, N_e is an important metric because it represents the genetic “health” of the population and an alternative abundance measure. These genetic metrics will be important for recovery planning and interpreting the population/genetic response as the passage program is implemented.

Subtasks

Task 4.1 Plating Phase 2C, 3, and 4 fin clips

- Develop subsampling plan for selecting fin clips to plate.
- Genetic tissue from aged *O. mykiss* will be moved from coin envelopes to 96 well plates for extraction.

Task 4.2 Extraction, Genotyping and Genetic Analysis for Phase 2C, 3, and 4

- *GTseq using Illumina miSEQ for 282 samples* - Currently, the most widely used genotyping method on salmonids in the Western U.S. is GTSeq (Campbell et al. 2014) with analyses conducted using standard sets of individual single nucleotide polymorphism (SNP) loci. That process will be conducted here, with genotypes generated using the 379 SNP loci developed by the Idaho Department of Fish and Game and the Columbia River Inter-Tribal Fish Commission for *O. mykiss* population monitoring (Hess et al. 2018; Steelhead GTseq v2.0 379). All loci included in the panel are used for parentage/relatedness calculations and effective population size.
- The panel includes markers for genetic regions indicative of juvenile emigration propensity (frequency of OMY5). The panel also includes a sex chromosome marker.



Task 4.3 Close kin mark recapture analysis

- *Close-Kin Mark-Recapture analysis on the samples from task 4.2* - Parentage and/or relatedness analysis will be conducted using the close kin mark recapture R package CKMRSim version 0.1.1.999 (Anderson 2022). This package enables assessment of expected false-positive rates and includes functions for performing pairwise relationship inference (see above). The CKMRSim package allows for enumeration of related individuals observed in collections and defines the relationship type. These data will be used to refine relatives inferred by the maximum likelihood (categorical allocation) method developed by Wang and Santure (2009), as implemented in COLONY. These data will be the raw material for input into models for estimating spawner abundance.

Deliverables

- Genotypes for analyzed samples
- Genetic analysis and CKMR modeling in final report

Deliverables

Below, we list the deliverables and completion dates associated with this Scope of Work.

Task	Deliverable	Completion Date
Task 2.4	Harvest and Lifecycle model with documentation	04/30/2025
Task 2.5	Pre-Implementation Study Final Report	04/30/2025
Task 2.5	Biological Trigger Outline	04/30/2025

Budget

CFS will work with United to meet all project objectives on schedule and on budget. We estimate the total cost of Phase 4, Part 2 to be **\$149,587**.



Task	Cost
Task 1. Conclude Part 1 Budget Tasks	\$ 6,502
Task 2. Data Management, Analysis, and Reporting	\$99,345
Task 3. Project Management	\$19,229
Task 4. Genetic Analysis and Close Kin Mark Recapture Modeling	\$32,230
Total	\$149,687

Budget Assumptions

The following assumptions were used to develop the budget:

- 1) CFS will present study results and recommendations at one virtual SFD Fish Passage Science and Technology Panel meeting. If CFS attends additional FPSTP meetings or if the meetings are held in person, United will provide additional budget.
- 2) Genetic tissue (fin clip or extracted DNA) collected during pre-implementation studies will be deposited with the National Marine Fisheries Service Southwest Fisheries Science Center.
- 3) CFS will draft all permitting reports and applications for United's review and approval. CFS will also support United in communicating/coordinating with resource agencies regarding the studies and required permits. United will be responsible for submitting permit applications/permits, required reports, and communicating with resource agencies.
- 4) Deliverables completion dates are for drafts to United for review. CFS anticipates two rounds of drafts with United. CFS will complete draft edits and responses within four weeks of receiving them.

If the assumptions listed above are not met, this may result in changes to the project schedule, scope, and deliverables detailed in this proposal. Additional collaboration, site-visits, meetings, or tasks beyond the scope of this proposal will be budgeted on a per-task basis, as needed.



References

- Adams, P. B., and coauthors. 2011. California coastal salmonid population monitoring strategy design and methods. CA Department of Fish and Game, Sacramento, CA. 82 p
- Bravington, M.V., Grewe, P.M., Davies, C.R. 2016. Absolute abundance of southern bluefin tuna estimated by close-kin mark-recapture. *Nature Communications* DOI:10.1038/ncomms13162
- Kermorvant, C., F. D'Amico, N. Bru, N. Caill-Milly, and B. Robertson. 2019. Spatially balanced sampling designs for environmental surveys. *Environmental monitoring and assessment*, 191(8), p.524.
- Knoerr, M. D., A. M. Tutterow, G. J. Graeter, S. E. Pittman, K. Barrett. 2022. Population models reveal the importance of early life-stages for population stability of an imperiled turtle species. *Animal Conservation* 25: 53-34.



Cramer Fish Sciences

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SFD Fish Passage Program: Phase 4 Part 2 (October 2024 - May 2025) Study Scope for Juvenile Downstream Passage Pre-Implementation Studies

	Projected Hours						Labor Subtotal			Totals
	\$275.00 Principal Scientist	\$214.00 Sr. Scientist	\$181.00 Sr. Biometrician	\$137.00 Biologist II	\$93.00 Senior Bio Technician	\$75.00 Bio Technician		Travel	Direct	
Objectives and Tasks										
Task 1: Wrap up Part 1 Budget Tasks										
Task 1.1 Scale sample preparation, imaging and aging				6	60	0	\$6,402		\$100	\$6,502
Task 1 Subtotal	0	0	0	6	60	0	\$6,402		\$100	\$6,502
Task 2: Data Management, Analysis, and Reporting										
Task 2.1 Data management and QC				20	20		\$4,600			\$4,600
Task 2.2 Data summary and analysis	5	20	20	25	15		\$14,095			\$14,095
Task 2.3 Harvest and lifecycle model	30	30	90	50	25		\$40,135			\$40,135
Task 2.4 Final report, model documentation, biological trigger outline	25	45	30	40	15		\$28,810			\$28,810
Task 2.5 Respond to United report edits	6	8	4				\$4,086			\$4,086
Task 2 Subtotal	66	103	144	135	75	0	\$91,726			\$91,726
Task 3: Project Management										
Task 3.1 Coordinate analysis and reporting	4	12	4	4	4		\$5,312			\$5,312
Task 3.2 FPSTP meeting and communications with United	12	25	10				\$10,460			\$10,460
Task 3.3 Monthly invoice review		6					\$1,284			\$1,284
Task 3.4 CDFW permit reporting				5	16		\$2,173			\$2,173
Task 3 Subtotal	16	43	14	9	20	0	\$19,229			\$19,229
Task 4: Genetic Analysis and Close Kin Mark Recapture Modeling										
Task 4.1 Plating Phase 2C, 3, and 4 fin clips				4		12	\$1,448			\$1,448
Task 4.2 Task 4.2 Extraction, Genotyping and Genetic Analysis for Phase 2C, 3, and 4		6					\$1,284		\$19,378	\$20,662
Task 4.3 Close kin mark recapture analysis		5	50				\$10,120			\$10,120
Task 4 Subtotal	0	11	50	4	0	12	12,852	0	19,378	32,230
Total Project Hours	82	157	208	154	155	12	756			
Total Project Costs	\$22,550	\$33,598	\$37,648	\$21,098	\$14,415	\$900	\$130,209	\$0	\$19,478	\$149,687