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Exempt from Filing Fees
Government Code § 6103

6 Attorneys for
7 Antelope Valley Watermaster

8 **SUPERIOR COURT OF THE STATE OF CALIFORNIA**
9 **FOR THE COUNTY OF LOS ANGELES - CENTRAL DISTRICT**

11 Coordination Proceeding,
12 Special Title (Rule 1550(b))

13 **ANTELOPE VALLEY**
14 **GROUNDWATER CASES**

Judicial Council Coordination
Proceeding No. 4408

LASC Case No.: BC 325201

Santa Clara Court Case No. 1-05-CV-049053
Assigned to the Hon. Jack Komar, Judge of
the Santa Clara Superior Court

**REQUEST FOR JUDICIAL NOTICE IN
SUPPORT OF WATERMASTER'S
ARGUMENT AT EVIDENTIARY
HEARING IN OPPOSITION TO BARREL
SPRINGS' MOTION FOR ACTION AND
IMPLEMENTATION; EXHIBITS A-D;
DECLARATION OF CRAIG A. PARTON**

19 _____
20 AND ALL RELATED ACTIONS
21 _____

Date: October 18, 2023
Time: 9:00 p.m.
Dept: 3

22 In support of its Opposition to the Motion by The People Concern, Inc., as agent for Barrel
23 Springs Properties, LLC ("Barrel Springs"), for Action and Implementation ("Motion"), and
24 pursuant to California Rules of Court Rules 3.1306(c) and 3.1113(l), and Evidence Code sections
25 452 and 453, the Antelope Valley Watermaster ("Watermaster") hereby requests that the Court
26 take judicial notice of the following court documents:

27 **Exhibit A:** excerpts from the packet for the regular meeting of the Watermaster Advisory
28 Committee on January 18, 2023, related to the Barrel Springs Application.

1 **Exhibit B:** excerpts from the packet for the regular meeting of the Watermaster Board on
2 February 22, 2023, related to item 13.a, Consideration and Possible Action on New Production
3 application of Long Valley Road (300 AF).

4 **Exhibit C:** excerpts from the packet for the regular meeting of the Watermaster Board on
5 April 26, 2023 related to the Barrel Springs Application.

6 **Exhibit D:** excerpts from the packet for the regular meeting of the Watermaster Board on
7 June 28, 2023, related to item 17.b, Consideration and Possible Action on New Production
8 application of Banuk (215 AF).

9 Exhibits A - D are subject to judicial notice as public agency records and reports pursuant
10 to Evidence Code section 452. (See, e.g., *Geraghty v. Shalizi* (2017) 8 Cal.App.5th 593, 602, fn.
11 4; *Bravo Vending v. City of Rancho Mirage* (1993) 16 Cal.App.4th 383, 405-406; *Pan Pacific*
12 *Properties, Inc. v. County of Santa Cruz* (1978) 81 Cal.App.3d 244, 255, fn. 2; *McPheeters v.*
13 *Board of Medical Examiners of State* (1946) 74 Cal.App.2d 46, 47; *Eldridge v. City of Palo Alto*
14 (1976) 57 Cal. App. 3d 613, 621.)

15 Exhibits A - D are also subject to judicial notice as matters that are “not reasonably
16 subject to dispute and are capable of immediate and accurate determination by resort to sources of
17 reasonably indisputable accuracy.” (Evid. Code, § 452, subd. (h); see, e.g., *Hoechst Celanese*
18 *Corp. v. Franchise Tax Bd.* (2001) 25 Cal.4th 508, 519, fn. 5.) This includes public agencies’
19 websites, and the information found therein. (*Moehring v. Thomas* (2005) 126 Cal.App.4th 1515,
20 1524, fn. 5.)

21 Exhibits A and C are relevant because they show the documentation considered by the
22 Advisory Committee and the Watermaster Board related to Barrel Springs’ Application.

23 Exhibits B and D are relevant because they refute Barrel Springs’ contention that the New
24 Production applications of Long Valley Road and Banuk are comparable to, and support approval
25 of, Barrel Springs’ New Production application. (Reply at 4:13 – 5:6.)

26 Thus, these exhibits are properly before the Court pursuant to Evidence Code sections 452
27 and 453. Accordingly, the Watermaster respectfully requests that the Court grant this request for
28 judicial notice.

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Dated: October 13, 2023

Respectfully submitted,

PRICE, POSTEL & PARMA LLP

By: Craig A. Parton
CRAIG A. PARTON
TIMOTHY E. METZINGER
CAMERON GOODMAN
Attorneys for
Antelope Valley Watermaster

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PROOF OF SERVICE

STATE OF CALIFORNIA, COUNTY OF SANTA BARBARA

I am employed in the County of Santa Barbara, State of California. I am over the age of eighteen (18) and not a party to the within action. My business address is 200 East Carrillo Street, Fourth Floor, Santa Barbara, California 93101.

On October 13, 2023, I served the foregoing document described **REQUEST FOR JUDICIAL NOTICE IN SUPPORT OF WATERMASTER'S ARGUMENT AT EVIDENTIARY HEARING IN OPPOSITION TO BARREL SPRINGS' MOTION FOR ACTION AND IMPLEMENTATION; EXHIBITS A-D; DECLARATION OF CRAIG A. PARTON** on all interested parties in this action by placing the original and/or true copy.

☒ **BY ELECTRONIC SERVICE:** I posted the document(s) listed above to the Santa Clara County Superior Court Website @ www.scefiling.org and Glotrans website in the action of the Antelope Valley Groundwater Cases.

☒ (*STATE*) I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

☐ (*FEDERAL*) I hereby certify that I am employed in the office of a member of the Bar of this Court at whose direction the service was made.

Executed on October 13, 2023, at Santa Barbara, California.



Signature
Elizabeth Wright

Exhibit A

ANTELOPE VALLEY WATERMASTER ADVISORY COMMITTEE
MEETING AGENDA

January 18, 2023 10:00 a.m.

CONFERENCE LINE MEETING ONLY

Join Zoom Meeting

<https://us06web.zoom.us/j/88514284670?pwd=QlVodzl2di82d2lxQU9yRXhqVndiZz09>

Meeting ID: 885 1428 4670

Passcode: 123456

Dial by your location +1 669 444 9171 Password 123456

1. Introductions
2. Approval of November 30, 2022, meeting minutes.
3. Discussion of potential AV Watermaster Board action items as shown on draft January 25, 2023, AVWB agenda received January 13, 2023:
4. Discussion of 2023 Proposed Antelope Valley Watermaster Fee Schedule
5. Recommendations and Consideration on New Production Application
 - Barrel Springs Properties LLC, (120 AF)
 - Long Valley Road L.P, (300 AF)
 - West Dony, (2 AF)
 - Galdamez Amado, (2 AF)
6. Recommendation and Consideration on New Point of extraction
 - Frankenberg

7. Recommendation and Consideration on Transfer Application

- Craig and Marta Van Dam to AVCC (1 AF)

8. Recommendation and Consideration on Well Application

- Alfonso Torres – Replacement Well application

9. Summary of New Production and Qualified Small Pumpers

10. Items Requested by Committee Members or Other Producers

11. Information Items

**Antelope Valley Watermaster Board
Meeting Agenda
Wednesday, January 25, 2023 – 10:00 a.m.
Location: Antelope Valley – East Kern Water Agency
6450 West Avenue N, Palmdale, CA 93551**

or

"The Watermaster Board meeting will be held via teleconference connection in accordance with the requirements set out in Government Code 54953(e) and pursuant to the findings and authority set out in Watermaster Resolution No. R-22-62."

Due to the Coronavirus this is a Teleconference Only meeting:

Website: <https://zoom.us/j/687127281> **Teleconference:** (669) 900-6833 **Access Code:** 687 127 281

This meeting may be recorded

1) Call to Order

2) Roll Call

BOARD OF DIRECTORS

Robert Parris, AVEK Representative – Chairperson

Kathy MacLaren, Public Water Supplier Representative – Vice-Chairperson

Adam Ariki, Los Angeles County Waterworks District 40 Representative

Brandon Calandri, Landowner Representative

Derek Yurosek, Landowner Representative

Jim Beck, Hallmark Group – Watermaster Administrator

Jessica Alwan, Hallmark Group – Watermaster Administrator

Jacqueline Harris, Hallmark Group – Watermaster Administrator

Joshua Montoya, Hallmark Group – Watermaster Administrator

Phyllis Stanin, Todd Groundwater – Watermaster Engineer

Arden Wells, Todd Groundwater

Craig Parton, Price, Postel & Parma LLP – General Counsel

3) Adoption of the Agenda *(Note: At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.)*

4) Public comments for non-agenda items *(This portion of the agenda allows an individual the opportunity to address the Board on any item regarding Watermaster business that is NOT ON THE AGENDA. Without acting or entering a dialogue with the public, Board members may ask clarifying questions about topics posed by the public. Your matter may be referred to the administrator and/or advisory committee.)*

5) Special Presentations – None

6) Annual Election

Item Description

a.	Election of Officers
b.	Election of Board Secretary
c.	Election of Board Treasurer

7) Consent Agenda (*Staff Report: Administrator*)

Item	Description	Page
a.	Financial Report and Payment of bills through December 31, 2022	5
b.	Minutes of December 7, 2022, Special Meeting	21
c.	Resolution No. R-23-01; Resolution proclaiming that a local emergency persists, re-ratifying the Governor's proclamation of a state of emergency, and authorizing remote teleconference meetings for a period of 30 days pursuant to the Brown Act	26

8) Advisory Committee Report (*Advisory Committee Chair Chaisson*)

Item	Description	Page
a.	Advisory Committee Written Report	29

9) Administrative Committee Report (*Staff Report: Administrator*)

Item	Description	Page
a.	Administrative Committee Report	

10) Public Hearing to consider adopting the 2023 Fee Schedule (*Staff Report: Administrative Staff*)

Item	Description	Page
a.	Opening of the Public Hearing	
	(i) Present 2023 Fee Schedule	
b.	Closing of Public Hearing	

11) Consideration and possible action to approve the 2023 Fee Schedule (*Staff Report: Administrative Staff*)

Item	Resolution No.	Description	Page
a.	R-23-02	Approve 2023 Fee Schedule	

12) Authorize specified individuals to transact business with Citizens Business Bank (*Staff Report: Administrative Staff*)

Item	Resolution No.	Description	Page
a.	R-23-03	Authorizing Signers for Citizens Bank	

13) Consideration and possible action on Hallmark Group's Amendment No. 2 (*Staff Report: Administrative Staff*)

Item	Description	Page
a.	Amendment No. 2 to the Consulting Services Agreement to Complete a Rate Assessment, Outreach, and Develop Fiscal Policy for 2024 Fee Schedule	

14) Consideration and possible action on New Production application (Staff Report: Engineer)

Item	Resolution No.	Description	Page
a.	R-23-04	Barrel Springs (120 AF)	
b.	R-23-06	Long Valley Rd (300 AF)	
c.	R-23-07	West Dony (2 AF)	
d.	R-23-08	Galdamez Amado (2 AF)	

15) Consideration and possible action on New Point of Extraction (Staff Report: Engineering)

Item	Resolution No.	Description	Page
a.	R-23-09	Frankenberg – New Point of Extraction Application	

16) Consideration and possible action on Transfer application (Staff Report: Engineering)

Item	Resolution No.	Description	Page
a.	R-23-10	Craig and Marta Van Dam to AVCC (1 AF)	

17) Consideration and possible action on Settlement agreement (Staff Report: General Counsel)

Item	Resolution No.	Description	Page
a.	R-23-13	Piute Mutual Water Company	

18) Consideration and possible action on Well application (Staff Report: Administrative Staff)

Item	Resolution No.	Description	Page
a.	R-23-14	Alfonso Torres – Replacement Well Application	

19) Administrator's Report

Item	Description	Page
a.	Update on Administration Activities	

20) Watermaster Engineer's Report

Item	Description	Page
a.	Summary of New Production and Qualified Small Pumpers	
b.	Model Update	
c.	Change of Email Address for Antelope Meter Reporting	

21) General Counsel's Report

Item	Description
a.	Update on Court Proceedings
b.	Consideration of Policy on Delinquent RWAs

22) Board Members Request for Future Agenda Items

23) Closed Session, Conference with Legal Counsel General Counsel's Report

Item Description

a.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Zamrzla Parties
b.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Rancho Sierra Properties, LLC
c.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Antelope Valley Resource Conservation District

24) Closed Session Report

25) Adjournment – Next Meeting February 22, 2023

Resolution No. R-23-04

New Production Application – Barrel Springs

TODD

GROUNDWATER

January 11, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board of Directors

Re: APN# 3052-016-017 (Barrel Springs Properties, LLC) New Production Application Findings

Watermaster Board:

Barrel Springs Properties, LLC, is proposing a 125-acre Farming and Farmworker Housing Development Community (Project) located northwest of the intersection of Barrel Springs Road and 40th Street East, just south of the City of Palmdale. It includes APN's 3052-16-017 & 010, and 3052-026-050. The applicant is a Party to the Judgment because they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5-22 of the Judgment.

The proposed Project is in the Central Antelope Valley Subarea and will be used as agricultural land for grazing, crops, orchards, and small animal husbandry. The project would also include affordable housing for farmworkers. The applicant is requesting 120 AFY for this development. A proposed well located on APN 3052-016-017 would provide water for domestic use for the housing units, landscape irrigation and agricultural use on the property. This project is sponsored by The People Concern, a 501(c)(3) Non-profit Organization for Public Benefit.

The proposed development will occur on approximately 58 acres and include the following:

- 48 farmworker housing units (each 980 square feet (sf) for a total of 47,040 sf) to house an estimated 144 individuals
- multipurpose center (6,000 sf)
- dining hall (4,500 sf)
- caretaker's house (1,200 sf)
- storage garage (1,600 sf)
- produce stand (1,000 sf)
- landscaping - annual grasses and flowers (357,192 sf)
- row crop vegetable gardens - broccoli, carrots, potatoes, onions, peppers, lettuce (12.1 acres)
- orchard - peaches, apples, oranges (24.7 acres)
- farm animals within the orchard area.

Water conservation measures will include low-flow fixtures in residential kitchens and bathrooms and drought-tolerant plants in the landscaped areas with

drip irrigation systems. The project will use water conservation practices and designed as Certified LEED Platinum for indoor and outdoor use.

Domestic Water Use. In total, there would be about 61,340 sf of buildings, with 145 bathrooms and 8 half bathrooms. The per capita use is expected to be 55 gallons per day, an equivalent of 8.87 AFY for 144 people. Additional support services would use another 10 percent (0.89 AFY) for a total domestic use of 9.8 AFY.

Landscaping and Irrigated Agricultural Water Use. The property will have about 40.1 acres of irrigated areas. The applicant calculated that irrigation needs will be approximately 108 AFY. This equates to about a 3 AFY/acre water use rate ($108\text{AFY}/40.1\text{A}=2.96\text{AFY/ac}$). All landscape around building areas will be xeriscape.

Figure 1 shows the location of the proposed Barrel Springs project in the southern portion of the Central Antelope Subarea, generally located along Barrel Springs Road south of the California Aqueduct. The parcel and proposed well are located within the service area of Palmdale Water District (District). The District has notified the applicant that there is some infrastructure located within proximity of the parcel; however, the parcel lies at a higher elevation than can be served by the District's existing system, and improvements to the District's system would be necessary to serve the parcel. The owner may elect to either construct the necessary water system improvements so the District can serve the parcel or seek approval through the Antelope Valley Watermaster for the construction of a private well. The applicant has chosen a private well for water supply. The closest Palmdale Water District well is more than one mile southeast of the Barrel Springs parcel.

The District's letter also indicated that the District's Palmdale Ditch transverses the parcel along its lowest elevation. The District will require the Palmdale Ditch to be covered so that the ditch is not negatively impacted by water runoff from the parcel.

The parcel is located within the San Andreas Fault Zone, consisting of several parallel to sub-parallel faults that transect the property (**Figure 1**). These faults deform the subsurface geology in this area, resulting in a relatively thin veneer of older alluvial deposits on top of steeply-dipping bedrock units (e.g., Anaverde Formation) of Pliocene age. Bedrock crops out along this margin of the groundwater basin within a few miles of the property. Locally, faults compartmentalize subsurface geological units and can impede and redirect groundwater flow. In this manner, faults may act as full or partial barriers to groundwater such that pumping on one side of the fault may not affect groundwater levels on the other side of the fault.

Figure 2 shows Spring 2022 groundwater level contours and water level hydrographs of USGS monitoring wells. The regional contours indicate groundwater flow from the San Gabriel mountains in the south towards the center of the Central Antelope Subarea. Locally, groundwater flow is expected to be more complex due to local faulting. The closest well monitored by USGS (#44401), is about 3 miles to the north and shows that water levels increased from 1997 to 2013 and then slightly declined between 2014 and 2022. However,

given the distance of this hydrograph (and other available hydrographs) from the project site – and in consideration of the local hydrogeologic complexity – these data may not be representative of groundwater trends on the Barrel Springs property. Nonetheless, considering the project’s upgradient location within the Basin, the undeveloped lands surrounding the parcels, and the nearby proximity of Palmdale Water District service areas, local groundwater levels are not expected to be declining in this area.

Applicant’s Analysis

The New Production Application included an analysis of potential physical and economic impacts from the proposed well prepared by Geosyntec (September 30, 2022). The analysis noted the geologic complexity of this area due to the San Andreas fault zone and exposed bedrock in this region, and the potential for compartmentalized small alluvial basins and limiting hydrogeologic continuity. It noted that several springs occur along the fault zone; this alignment of springs is a possible indicator of hydraulic discontinuities in the groundwater system.

The applicant’s analysis calculated aquifer transmissivity and hydraulic conductivity from nearby Driller Well Reports and used these data to calculate anticipated drawdown. Although aquifer parameters were not available near the property, the analysis was based on conservative assumptions to over-estimate potential impacts to existing wells. Parameters were estimated from specific capacity data and lithology from local Driller’s logs. The analysis assumed 0.5 feet/day for hydraulic conductivity, an aquifer thickness of 200 feet, and a transmissivity of 748 gallons per day per foot (gpd/ft).

The drawdown calculated for a location 1,000 feet away from the proposed well was estimated at about 25 feet if no hydraulic barrier existed between the proposed Barrel Springs well and the existing well. If a hydraulic barrier existed between the two wells, drawdown would likely be less. If an existing well were in the same small compartment bound by faulting, drawdown was predicted to increase to about 47 feet if the bounding faults were hydraulic barriers. However, this last assumption does not appear to be relevant to the current conditions at the Barrel Springs property, given the apparent lack of existing wells to the immediate northwest and southeast of the parcel (i.e., parallel to local faulting).

Material Injury Analysis

There is only sparse development in areas surrounding the parcel and no existing wells appear to be located within about 1,000 feet of the proposed well (see **Figure 3**). Geosyntec (September 30, 2022) identified potential existing wells in the vicinity of the proposed project (see Figure 2 in the attached Geosyntec report). The closest wells to the Barrel Springs property are likely domestic wells that serve several homes north and west of the property. The analysis suggested the closest well was located on a parcel about 0.25 miles (1,300 feet) north of the proposed well location, north of the California Aqueduct. However, that parcel appears to be undeveloped (no homes) according to county records and satellite imagery. The closest homes

are further to the north (about 2,000 feet away) and appear to be across several faults (including the more continuous trace); as such, it seems likely that they are partially or fully hydrogeologically disconnected from the area of the proposed Barrel Springs well. Other homes to the north and northwest are served by Palmdale Water District and are not likely vulnerable to domestic well impacts.

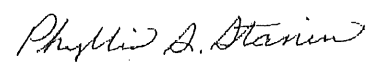
The estimated drawdown of 25 feet estimated for any wells about 1,000 feet from the proposed Barrel Springs well could likely be accommodated by most existing wells given the relatively deep screens and local depths to water. However, the analysis assumed a pumping rate of 20 gallons per minute (gpm) while the application requests an annual groundwater extraction amount of 120 AFY. In order to produce 120 AFY, the well would need to pump 74.4 gpm on a continuous basis, making the drawdowns at this pumping rate about 3.7 times greater than the example analysis (i.e., 92 feet at a distance of 1,000 feet). The application estimated that the proposed well would have a pumping capacity up to 150 gpm. This drawdown has a greater potential to adversely impact nearby wells depending on the construction and current condition of the well. However, given the conservative assumptions for aquifer parameters and the likely barrier effects of local faulting, the applicant's analysis may be over-estimating impacts.

Collectively, local faults, thin alluvial deposits, and shallow bedrock near the proposed Barrel Springs well could negatively affect the productivity of the local aquifer and the proposed well. Determination of the estimated capacity of the applicant's new well is not within the scope of a Material Injury analysis and approval of this New Production application does not guarantee that a well drilled in this area will produce the needed 120 AFY.

Because Barrel Springs Properties will be required to pay a Replacement Water Assessment for production, there is no Material Injury associated with groundwater storage and sustainable yield. The new production is not within the historical or current areas of inelastic land subsidence and no subsidence issues are expected in this area. The proposed production will occur near the southeast margin of the Basin along the San Andreas Fault Zone which is likely a partial hydraulic barrier to groundwater flow. Due to the remote location of this project and potential hydrogeologic disconnection, the risk for material injury appears to be low, but given the uncertainty of the local complex hydrogeology, future impacts to existing wells cannot be ruled out.

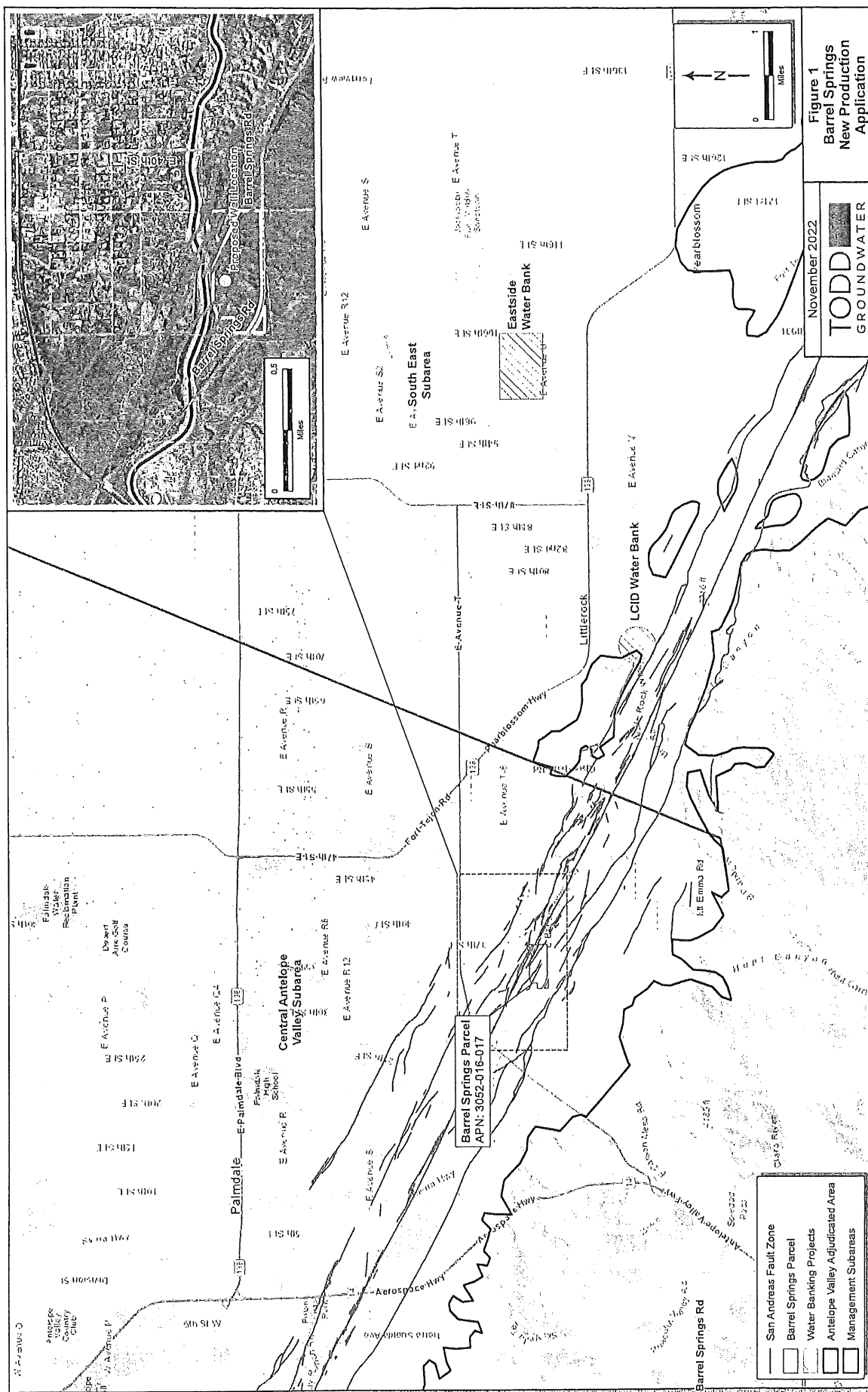
Todd Groundwater has determined that Barrel Springs Properties' application for New Production is complete and is determined to have negligible material injury based on the available data. However, given the local hydrogeological uncertainty, Todd Groundwater recommends that the Watermaster require the applicant to conduct an aquifer test on the new well for an improved understanding of aquifer conditions; all well information, including lithological data, construction information, and test results, should be provided to the Watermaster. In addition to this request, the Applicant must also agree to pay Replacement Water Assessments for all future production and comply with meter installation and testing requirements.

Sincerely,

A handwritten signature in cursive script that reads "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer



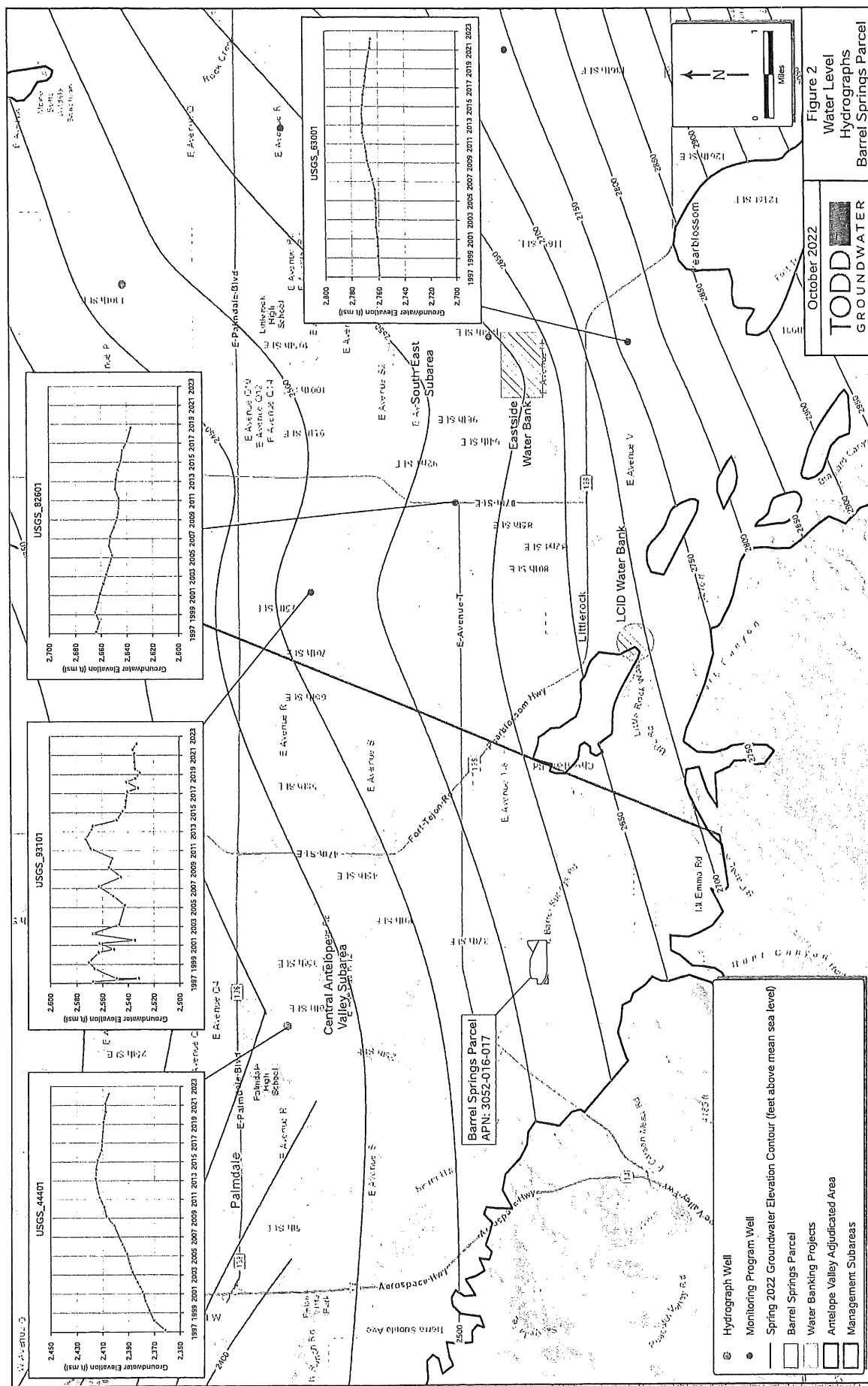
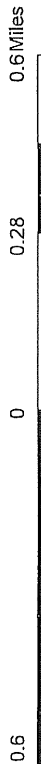


Figure 3. Parcel 3052-016-017 with Barrel Springs Well



X = Proposed
Well Location



County of Los Angeles

This map is for reference only and should not be used for legal decisions.
While the County of Los Angeles makes its best effort to ensure data is
accurate, the County makes no representation or warranty of any kind.

NEW PRODUCTION APPLICATION

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:
<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 5022 West Avenue N, Suite 102 #158, Palmdale, CA 93551 OR email to:
Info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

Date 09-30-22 Proposed Well Site APN 3052-016-017

Property Owner/Well Owner Barrel Springs Properties, LLC

Property Owner/Well Owner Mailing Address 1719 CALIFORNIA AVE #B, SANTA MONICA, CA 90403

Contact Phone Number 661-816-5179 Contact email david@redbricksolution.com

New Well Latitude/Longitude (or x, y) 34.531357, -118.067000 Antelope Valley Subarea: Central Antelope Valley

Use of New Well (Agricultural, Domestic, Industrial, Municipal, Monitoring, etc.) Agricultural

If Domestic well, will well be used to supply one single family household only? Yes/No.

Do other wells exist on this property? Yes/No. If Yes, Indicate if active, inactive, or abandoned and show on Site Plan.

When will a meter be installed on the well? Immediately upon installation of the well

New Production requests are to include the following (Section 18.5.13 of the Judgment):

1. Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production. Please attach a check to this application submittal for the fee associated with a New Production application as per the fee schedule posted on the Watermaster website. Check can be made out to Antelope Valley Watermaster.
2. Written summary describing the proposed quantity, sources of supply, season of use, purpose of use, place of use, manner of delivery, and other pertinent information regarding the New Production.
3. Maps¹ identifying the location of the proposed New Production, including Basin Subarea.
4. Well information² including proposed well design, estimated annual pumping, and agreement to install a meter in accordance with the Rules & Regulations. Plus, a statement that once the well is installed, the applicant will provide water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production.
5. Written confirmation that applicant has obtained all necessary entitlements and permits including all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production.
6. Written confirmation that applicant has complied with applicable laws and regulations including all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.).
7. Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices.
8. Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
9. Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
10. A written statement, signed by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, determining that the New Production will not cause Material Injury. Material Injury could be in the form of

¹ Maps are to include North arrow and scale, location of proposed well with dimensions in feet from well to nearest cross streets, and location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.

² Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

significant and unreasonable 1. Chronic lowering of groundwater levels, 2. Reduction of groundwater storage, 3. Degraded water quality, 4. Land subsidence, 5. Depletions of interconnected surface water such that beneficial uses are impacted.

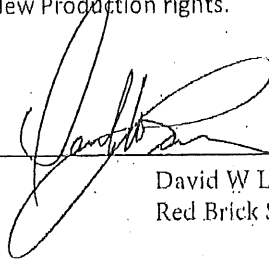
11. Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.
12. Other pertinent information which the Watermaster Engineer may require.

In addition, all New Production applicants who are not Parties to the Judgment³ are to comply with Section 20.9 of the Judgment, consult with the Watermaster Engineer, and seek the Watermaster's stipulation to allow them to intervene to become bound by the Judgment prior to commencing Production. The non-Party applicant must file a motion to intervene with the court that includes reference to their effort to obtain the Watermaster's stipulation to the intervention. It is strongly recommended that the non-Party applicant consult with a lawyer to assist them with compliance with Section 20.9 of the Judgment. If applicant believes they are part of the Non-Pumper Class (see footnote below) and therefore does not need to intervene in the Judgment, please provide supporting documents or statements demonstrating adherence to Items 1-6 in the footnote.

SIGNATURES

Under penalty of perjury, I understand and agree to be bound by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. I certify that the information provided on this Request for New Production is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment. I further understand and agree that the purpose, place and quantity of New Production, if any, approved by the Watermaster pursuant to this application shall be the only purpose and place, and the maximum amount, of New Production that I can produce in any given Year. I certify that I will comply with the restrictions set forth in Section 14.n of the Watermaster Rules and Regulations setting forth limitations on New Production, and that my failure to comply with these restrictions may result in a revocation of my New Production rights.

Signature of Applicant _____



David W. Larson, PE
Red Brick Solution, LLC

Date 9-30-22

³ An applicant may already be a Party to the Judgment if they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5.22 of the Judgment, as follows:

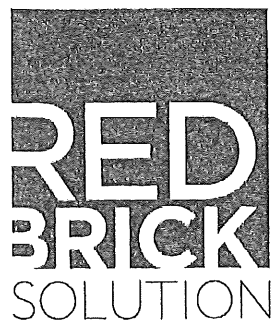
1. They are a private party and not a "governmental" entity.
2. They (or their successor in interest—see no. 4 below) own real property within the Adjudicated Area and were not pumping water at the time of the Judgment being entered as of December 2015.
3. They (or their successor in interest—see no. 4 below) did not pump water on their property "at any time during the five years preceding January 18, 2006."
4. Non-Pumper class status applies to those who are successors in title or interest (via gift or purchase or inheritance or otherwise) to a Non-Pumper Class member's land that meets the above criteria.
5. Note the term "Non-Pumper Class Member" does not apply to those who opted out or to those connected to a municipal water system, public utility, or mutual water company from which they receive water service. Also, their land cannot be considered "improved" by the Assessor's Office of Los Angeles or Kern County, unless the person declares under penalty of perjury that they do not pump and have never pumped water on those properties.
6. Finally, the Non-Pumper Class does not include anyone individually named in the Public Water Suppliers' cross-complaint unless those persons opted into the Non-Pumper Class.

To be completed by the Watermaster:

Watermaster Engineer Approval Phyllis A. Stanim Date 1/11/23

Watermaster Board Approval _____ Date _____

NOTE: This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.



CONSULTING ENGINEERS
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10770 "I" Avenue
Suite 103
Hesperia, CA 92395
M 661.816.5179

September 30, 2022

Antelope Valley Watermaster
5022 West Avenue N, Suite 102 #158
Palmdale, CA 93551

RE: New-Production Well Application, APN 3052-016-017

1. Payment:
Will be mailed from The People Concern
2. Written Summary:
The new production well has a proposed quantity of 120 AFY. The use will be for agricultural and farmworker housing that will be year-round on the private property. The water will be delivered via an onsite private water system.
3. Maps:
See attached map
4. Well Information:
See attached well design included with the Water Conservation Practices. We will agree to install a meter in accordance with the Rules & Regulations. Once installed, we will provide all water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production Well.
5. Written Confirmation that applicant has obtained all necessary entitlements and permits:
A Boring/Exploratory Hole was approved by the Department of Public Health. We also have Serviceability letters from Palmdale Water District granting permission to seek approval from AV Watermaster for a Production Well. Once approved, we will obtain a well permit from the County and retain a qualified driller with a California License C-57, who will secure any additional permits needed to drill my well, including the completion of a Department of Water Resources Well Completion Report.
6. Written confirmation that applicant has complied with applicable laws and regulations:
We have complied with all applicable rules and regulations. Drilling of my well qualified for a Categorical Exemption under CEQA.
7. Water conservation plan:
See attached Water Conservation Practices
8. Analysis of the Economic Impact:
See attached report by Geosyntec
9. Analysis of the Physical Impact:
See attached report by Geosyntec
10. Written Statement determining New Production Well will not cause material injury:
See attached report by Geosyntec
11. Written Confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production:
We agree to pay the applicable Replacement Water Assessment for our New Production well.

Water Conservation Practices

ANTELOPE VALLEY WATERMASTER

☐ Domestic
 ☒ Agricultural
 ☐ Commercial/Industrial
 ☐ Municipal
 ☐ Monitoring

Date 10-3-22 Proposed Well Site APN 3052-016-017

Property Owner/Well Owner BARREL SPRINGS PROPERTIES LLC

Property Owner/Well Owner Mailing Address 1719 California Ave, #B, Santa Monica, CA 90403

Contact Phone Number 661-816-5179 Contact email david@redbricksolution.com

Estimated annual pumping from New Well 120 acre-feet/year Well capacity Assumed 150 gallons/minute

Describe the proposed use of the New Well (attach back up information as necessary) Water for agricultural use and farmworker housing.

Lot/Parcel Size 58ac (acres)

Proposed Structure(s) (e.g. home, office, barn, etc.) and size (square feet) Storage Garage (1,600sf), Caretakers House (1,200sf), Produce Stand (1,000sf), Dining Hall (4,500sf), Multi-Purpose Center (6,000sf), and 48 Farmworker housing units (980/each totaling 47,040sf) with a total Square footage of 61,344sf.

Number of full bathrooms 145 Number of half bathrooms 8

Is there (or will there be) a pool? No Size of pool N/A (gallons)

Is there (or will there be) a spa/hot tub? No Size of spa/hot tube N/A (gallons)

Area to contain irrigated landscaping 357,192 square-feet

Describe all proposed landscaping (type and how many) Annual Grasses and Flowers

Area to contain irrigated crops or fruit trees 1,576,872 square-feet

Describe all proposed crops and fruit trees (type and how many) Row Crop vegetable gardens and Orchard Area

Please provide details on potential water use not mentioned above (e.g. farm animals, etc.)

Farm animals within the Orchard area (24.4ac)

Water Conservation Checklist

Please indicate which of the following measures will be used:

- ☒ ENERGY STAR® water-conserving appliances installed, e.g., dishwasher, washing machine appl.
- ☐ Water-efficient showerhead using conventional aerator or venturi technology for flow rate < 2.5 gpm fixture
- ☒ Water-efficient sink faucets/aerators < 2.2 gallons/minute
- ☒ Ultra-low flow (< 1.6 gpm/flush) toilets installed
- ☒ Low-volume, non-spray irrigation system installed, e.g., drip irrigation, bubblers, drip emitters, soaker hose, stream-rotator spray heads
- ☐ Weather-based irrigation controllers, e.g., computer-based weather record
- ☐ Collect and use rainwater as permitted by local code
- ☐ Separate and re-use greywater as permitted by local code
- ☐ Composting or waterless toilet as permitted by local code
- ☒ Drought-resistant, native plants (site-appropriate)
- ☐ Xeriscape landscaping
- ☐ Evapotranspiration-based irrigation controller with a rain sensor
- ☐ Soil moisture sensor-based irrigation controller

Please provide additional details here Water conservation specifics have yet to be determined, but we are designing the project to be Certified LEED Platinum. Attachment A contains the Water Conservation Practices summary for the project.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information provided on this Water Conservation Practices for Single Family Home form is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days.

Signature of Applicant _____

Date 10-03-22

David W Larson, PE
Red Brick Solution, LLC

Water Conservation Practices
ANTELOPE VALLEY WATERMASTER

ATTACHMENT A

Proposed Well Site APN: 3052-016-017

Planned water conservation measures at the property of the proposed well site include the installation of low-flow fixtures and fittings in residential kitchens and lavatories across the property and implementation of drought-tolerant plants in the landscaped areas watered with drip irrigation systems, as indicated in the Water Conservation Checklist on Page 2 of the Water Conservation Form.

The plan is to attain LEED Platinum certification for the property. The certification requires (a) reduction of outdoor water use by at least 30 percent from the baseline of the property's peak watering month, calculated using the USEPA WaterSense Water Budget Tool, (b) reduction of indoor water use by at least 20 percent from the baseline, using a combination of fixtures and fittings noted in the Water Conservation Checklist, and (c) installation of permanent building water meters measuring total potable water use, as well as compilation of monthly and annual meter read summaries for at least the first 5 years of the project. Additional credits needed to obtain Platinum-level certification will be met by prioritizing Water Efficiency credits as much as feasible, including those for the optimization of process water use.

The following best management practices for high desert agricultural water conservation will also be evaluated throughout property development to identify and target opportunities for their implementation:

1. Use of smart-sensor irrigation controllers to monitor weather, soil moisture, and/or evapotranspiration.
2. Use of selective irrigation methods across the property, including additional drip irrigation or mobile drip irrigation, low-energy precision application, mid and low elevation spray application, and sprinkler irrigation.
3. Reduction of tillage across crop fields to maintain soil water storage capacity.
4. Planting of cover crops, including cereals, brassicas, legumes, rye, and barley, to increase infiltration into underlying soils.
5. Planned crop rotation management.
6. Improvement of soil structure through incorporation of aggregate and/or organic material (e.g., mulch) to increase stability, porosity, and water storage capacity.
7. Further selection of drought-tolerant and native vegetation for crops and/or cover crops.
8. Rainwater capture and use.
9. Fitting drainage systems with water control structures to manage water table elevation.
10. Management of soil salinity and plant-specific composting practices.



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PH 626.788.4683
www.geosyntec.com

John Maceri, CEO
jmaceri@thepeopleconcern.org
The People Concern
2116 Arlington Ave. Ste. 100
Los Angeles, CA 90018

September 30, 2022

**Subject: Analysis of Potential Economic and Physical Impacts of the Proposed Well
Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California**

Dear John,

Geosyntec has reviewed geologic, hydrogeologic, and production well information within a few miles of the property for a farm and affordable farmworker housing community that is proposed by The People Concern, which is a California 501(c)(3) Non-profit Organization for Public Benefit. The property is south of Palmdale and just south of the California Aqueduct. It is bounded on the south by Barrel Springs Road, and on the east by 40th Street East. **Figure 1**, below, shows the property boundary on an aerial photograph.



Figure 1. Aerial Photo of Property Vicinity

Based on the information from several sources including geologic maps, Water Well Drillers Reports available from the California Department of Water Resources (DWR) for wells in the vicinity, and reports on the Antelope Valley Basin available from the Antelope Valley Water Master (AVWM) website, we have estimated groundwater production potential from a proposed well on the property. In addition, we have evaluated the potential physical and economic impacts of the proposed groundwater production to the surrounding area.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 2

Geologic and Hydrogeologic Setting

The property straddles the San Andreas Fault: most of it is southwest of the fault, but the northeast corner is northeast of the Fault. **Figure 2** shows the location of the property and the proposed well location on a geologic map¹ of the vicinity, a portion of which is underlain by the same aerial photo shown by **Figure 1**.

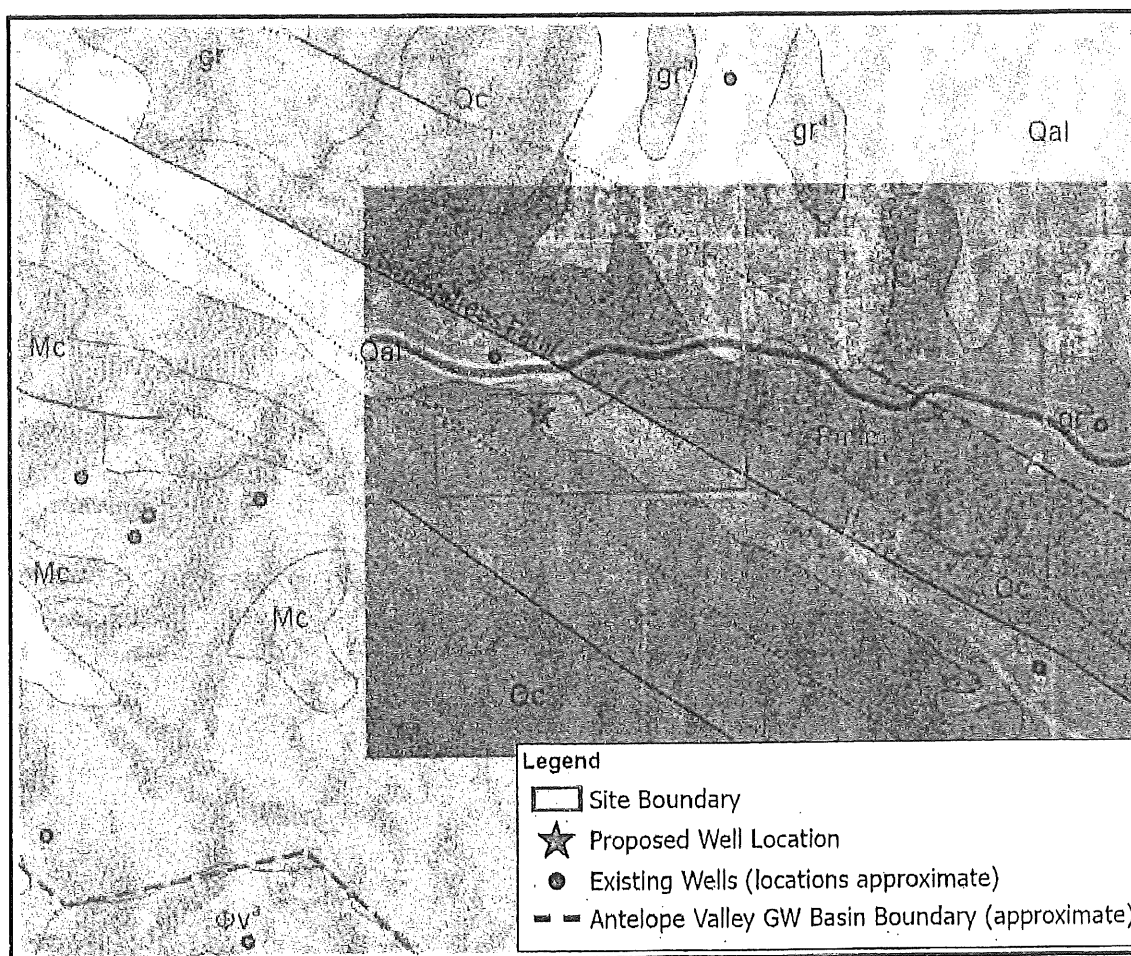


Figure 2. Geologic Map of Project Vicinity

¹ Jennings, C.W., and R.G. Strand, 1969. Geologic Map of California, Los Angeles Sheet. California Division of Mines and Geology. https://ngmdb.usgs.gov/Prodesc/proddesc_16341.htm
<http://archives.csuchico.edu/digital/collection/coll119/ld/99>

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 3

The property is within the boundaries of the Antelope Valley Groundwater Basin (e.g. Department of Water Resources Basin 6-044); the southwest margin is the basin is approximately 1 to 2 miles from the proposed well location. However, the property is not within the domain of the Antelope Valley Groundwater Model (USGS 2014); the southern margin of the model is a few miles northwest of the property. Consequently, we were not able to utilize aquifer properties assigned to the model to estimate aquifer properties in the vicinity of the property.

Based on the geologic map (Figure 2), the middle portion of property is underlain by deposits of unconsolidated quaternary alluvium and the western and eastern portions are underlain by Quaternary colluvium. Bedrock is exposed at the ground surface in many areas nearby. The area has a complicated geologic structure as a consequence of the proximity to the San Andreas Fault, which is actually a fault zone consisting of a several subsidiary parallel faults and local basins within the fault zone. Consequently, the rocks and alluvial deposits have much less continuity and their properties vary on a much smaller scale than within the main portion of the Antelope Valley Basin north of the fault zone.

Based on boring logs included on Well Drillers Reports for wells in the vicinity of the property, the alluvial deposits are generally a few hundred feet deep, but the clay content generally increases with depth. Some wells are completed in areas mapped as bedrock. The geologic map could be incorrect at some of these locations, but some of these wells may tap transmissive fractures associated with the fault zone.

A few areas with springs occur along Barrel Springs Road, which runs along the base of the slopes of the San Gabriel Mountains south of the property and the fault zone. The springs support local areas with trees and vegetation, which are visible on aerial photos (Figure 1). The springs are likely fed by groundwater discharging from the San Gabriel Mountains in drainages and fractures in bedrock. This water also likely accumulates in the local alluvial basins along the San Andreas Fault zone, which is likely a partial hydraulic barrier.

Aquifer Properties Based on Driller's Well Reports

Estimated aquifer transmissivity (T) can be calculated from specific capacity, which is pumping rate (Q) divided by drawdown (S) (lowering) of water level in a well (e.g. Heath, 1989)²:

$$T \sim 300 \times Q/S,$$

where T is in units of ft²/d

Q has units of gpm, and

S has units of ft

² R. C. Heath, 1989, Basic Groundwater-Hydrology, USGS Water-Supply Paper 2220.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

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And average hydraulic conductivity (K) is transmissivity divided by the thickness (b) of the formation tapped by the well:

$$K \text{ (ft/d)} = T \text{ (ft}^2\text{/d)} / b \text{ (ft)}$$

Calculations of estimated transmissivity, hydraulic conductivity, and details from two well reports in the vicinity are provided in the table below. Based on these calculations, the estimated hydraulic conductivity is approximately 0.5 ft/d, which is reasonable for heterogenous alluvium. If we account for head losses in the pumping wells, assuming well efficiencies of 70%, the transmissivity and hydraulic conductivities are higher by a factor of 1/0.7, or 1.43, which results in a hydraulic value of ~0.7 ft/d.

Well Number	Well ID on Geo Map	Pumping Rate (gpm)	Duration (hrs)	Depth to Water Before Test (ft)	Reported Drawdown (ft)	Calculated Transmissivity ¹ (ft ² /d)	Perforated or Screened Interval (ft)	Estimated Thickness of Productive Formation (ft)	Calculated Hydraulic Conductivity (ft/d)
251697	10	40	8	Flowing	250	48	32 to 292	100	0.48
287630	7	7	3	50	100	21	147 to 187	40	0.53

Notes:

¹ Estimate of Transmissivity = 300 x Pumping Rate / Drawdown,
 $T = 300 \times Q/S$, where T has units of ft²/d, Q, gpm, and S ft (Heath, 1989)

Calculated Drawdown with Distance from a New Production Well

We used the Jacob approximation of the Theis Aquifer Solution, which are both commonly used aquifer pumping solutions, to calculate theoretical drawdown with distance from the proposed production rate (e.g. Heath, 1989, see footnote above).

In addition, using the aquifer testing analysis software, AQTESOLV³, we calculated the drawdown at a range of distances from the pumping well using the Theis solution with a no-flow boundary along the San Andreas Fault, which may be a partial barrier to groundwater flow that would result in greater drawdown. This results in more drawdown than calculated with the standard Theis Aquifer Solution, which assumes the aquifer is uniform and of infinite extent. We then fitted a curve to the calculated drawdowns a few distances from the pumping well, and plotted the curve on a graph (Figure 3, below) of distance versus drawdown both the standard Theis solution (no hydraulic barrier along the fault) and the solution that represents a complete hydraulic barrier along the fault. This graph provides a range of potential drawdown with distance assuming a pumping rate of 20 gpm and an average hydraulic conductivity of 0.5 ft/d an aquifer thickness of 200 ft, which results transmissivity of 100 ft²/d.

³ Duffield, G.M. (2007) AQTESOLV for Windows User's Guide. Version 4.5, HydroSOLVE, Inc., Reston.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 5

Based on our review of the boring logs included with the Drillers Well Reports for wells in the vicinity that are completed in alluvium, and our professional judgement, a hydraulic conductivity in the range of 0.5 to 1 ft/d is reasonable, so the calculations of drawdown with distance using a hydraulic conductivity of 0.5 are considered conservative.

The drawdown would be linearly proportionally greater at a given distance for greater flow rate; e.g. a drawdown in response to a pumping rate of 40 gpm would be twice as much as calculated for 20 gpm.

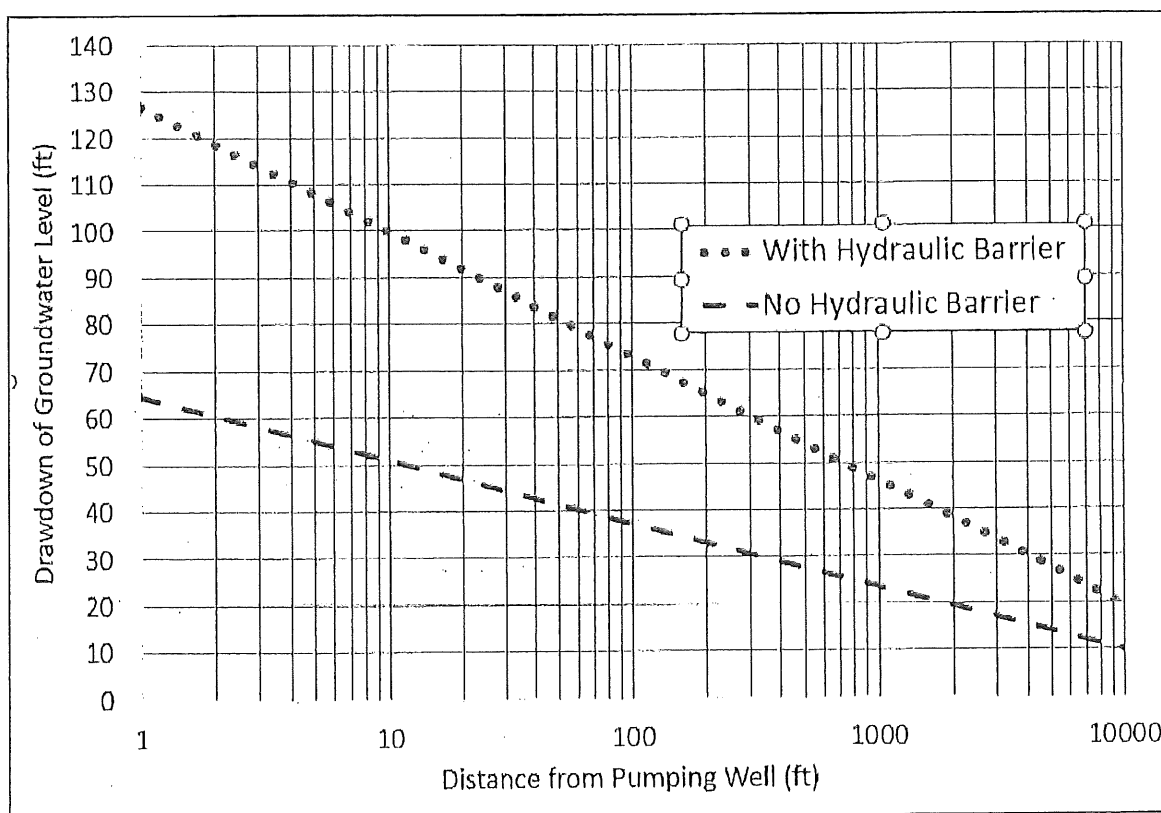


Figure 3. Calculated Drawdown with Distance from Pumping Well
 ($T = 100 \text{ ft}^2/\text{d}$, $b = 200 \text{ ft}$, $Q = 20 \text{ gpm}$)

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 6

Evaluation of Potential Physical and Economic Impacts of a New Production Well

The primary potential physical impact of groundwater drawdown is subsidence of the ground surface that can occur because of compaction with of the groundwater levels. Based on existing maps of long-term subsidence in the Antelope Basin⁴, the potential for subsidence due to the proposed groundwater production for the project is expected to be negligible (<0.1 ft).

We calculated cost for the additional energy needed for potential additional lift of water in wells due to potential lowering of groundwater due to the proposed new production well. The table and graph below (**Figure 4**) show the cost per month for a range of additional pumping lift values. The assumed electricity cost is \$0.16 per kilowatt hour (kWh), which is the reported cost for the Palmdale area (<https://www.electricitylocal.com/states/california/palmdale/>).

Potential Additional Pumping Costs Due to Lower Groundwater Level

Lift (ft)	ft-lbs/min	kWh/min	kWh/hr	Pump HP*	kWh/mo	\$/mo**
0						0
10	2979	0.001	0.067	0.1	49.1	\$8
30	8936	0.003	0.202	0.3	147.3	\$24
40	11914	0.004	0.269	0.4	196.4	\$31
50	14893	0.006	0.337	0.5	245.5	\$39
100	29786	0.011	0.673	0.9	491.1	\$79

Notes:

Pumping rate = 25 gpm Well efficiency = 70%

*Pump HP assumes 1 kWh is equivalent to the energy of a 1.34 HP pump over 1 h

** 16 cents per kWh in Palmdale

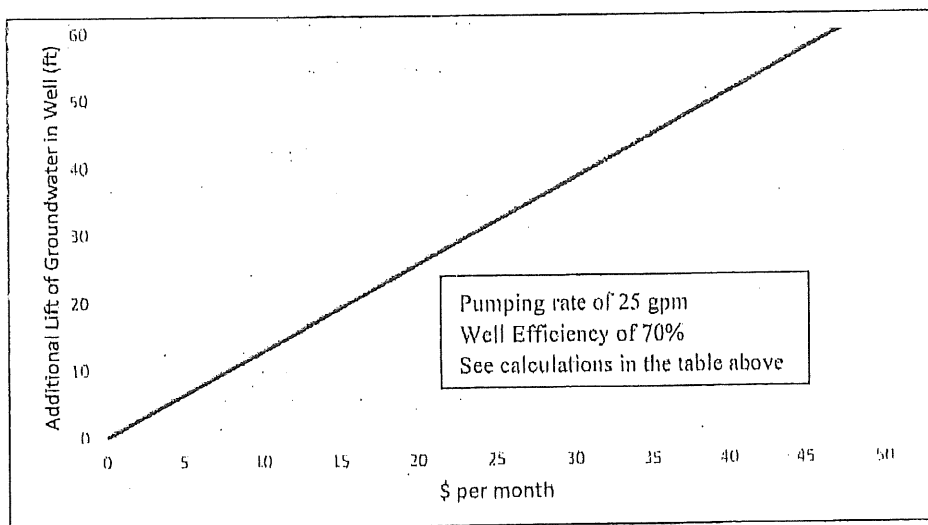


Figure 4. Energy Cost Associated with Lower Water Level in a Well

⁴ Todd Groundwater, 2022, Antelope Valley Watermaster 2021 Annual Report.

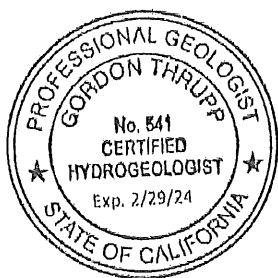
John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022


Page 7

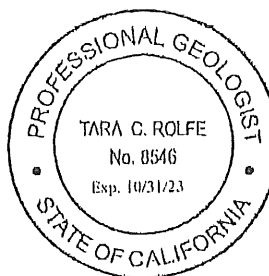
Based on the distances of other well from the proposed new well, and the calculations of hypothetical drawdown in response to pumping the new well at 20 gpm a conservatively high estimated potential additional cost to operate the closest wells is in the range of \$20 to \$30 per month. And, as discussed above, the drawdown calculations are based on a conservatively low value of hydraulic conductivity. A factor of two less drawdown is likely more realistic.

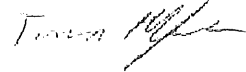
We appreciate the opportunity to provide you with groundwater supply consulting services and collaborate with you on this important project.

Sincerely,




 Gordon Thrupp, PhD, PG, CHG
 Senior Consultant




 Tara Rolfe, PG, CHG
 Senior Hydrogeologist

cc Christie Larson Christie@redbricksolution.com
 Dave Larson, PE david@redbricksolutions.com



65 N. Raymond Ave, Suite 200
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Item 10 for New Production Application
Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California

Geosyntec has reviewed geologic, hydrogeologic, and production well information within a few miles of the property for a farm and affordable farmworker housing community that is proposed by The People Concern, which is a California 501(c)(3) Non-profit Organization for Public Benefit. We have prepared a letter report that evaluates the groundwater production potential in the vicinity of the property and the potential economic and physical impact (*The Letter Report is also included as an Attachment to the Application Packet for Items 8 and 9 of the New Production Application*) of groundwater pumping to meet the water supply needs for the farm and housing community.

Geosyntec made calculations of the lowering of groundwater (drawdown) in response to pumping from the proposed well that are presented in the letter report. Based on the compilations of aquifer properties estimated from well reports for existing wells in the vicinity and geologic maps, and assuming a conservatively low transmissivity of 100 ft²/d¹ for was assumed for the alluvial aquifer beneath the property for screening level calculations of the potential influence of the production. With this and other conservative assumptions, the calculated lowering of groundwater at known existing wells would be a small portion of the depth to groundwater in the wells when they are pumping, which is commonly 100 ft or more based on information from Drillers Well Reports in the general vicinity available from the Department of Water Resources (DWR).

The calculations presented in our Letter Report, which is provided in the application packet to address Items 8 and 9, are intended to be serve as a basis for conservative screening-level evaluation of groundwater production potential and the resulting potential lowering of groundwater levels in the vicinity. The alluvial aquifer beneath the property may be a factor of four or more transmissive than assumed (i.e., hydraulic conductivity of 2 ft/d instead of 0.5 ft/d), which would result in less drawdown than calculated for the calculations presented using continuous pumping at 20 gpm. And, for example, if the aquifer is four times as transmissive as assumed, the same drawdown would be calculated with a factor of four higher pumping rate (80 instead of 20 gpm). Moreover, our calculations are also conservative because the analytical aquifer solution assumes no recharge to the alluvial aquifer and only horizontal radial inflow within an aquifer of infinite extent.

Based on our analysis groundwater production is feasible at the property and we make the following conclusions:

1. Chronic lowering of groundwater levels in the general vicinity is not expected to occur because groundwater discharge from the San Gabriel Mountains generally along the

¹ For example, average hydraulic conductivity of 0.5 ft/d and aquifer thickness of 200 ft.

Item 10 to Accompany the Production Permit
 Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California
 October 1, 2022

alignment of Barrel Springs Road provides recharge to the alluvial aquifer in the vicinity of the property, so the groundwater production can be sustainable.

2. Reduction of groundwater storage is anticipated to be minor for the same reasons that chronic lowering of groundwater levels is not expected to occur.
3. The groundwater production will not degrade water quality, and the well will be constructed with a proper surface seal in accordance with California Well Standards.
4. Based on subsidence data for the Antelope Groundwater Basin, modeling of subsidence in the basin by USGS, and the poorly graded make-up of the alluvial aquifer, subsidence due the proposed production is expected to be negligible (<0.1 ft).
5. The conservatively high calculations of drawdown at the distance of the nearest surface water (Bear Creek) south of Barrel Springs Road is too small to result in significant depletion of water in the creek. Moreover, like the springs, this creek too is hydraulically upgradient of the property, and is fed by groundwater discharge from the slopes and bedrock of the San Gabriel Mountains to the south to surface drainages and on-lapping alluvial aquifers. Additionally, portions of Bear Creek appear to be lined, and it is called the Palmdale Ditch. Thus, no impacts to beneficial uses of the land and water resources are expected to occur due to the proposed groundwater production.

The proposed new production of a maximum of 120 acre feet per year (AFY) will have negligible, if any, influence on the Native Safe Yield of the Antelope Valley Groundwater Basin, which is 82,300 AFY. Moreover, the proposed pumping is near the southwest margin of the Basin and is separated from the main portion of the Basin by the San Andreas Fault Zone, which is likely a partial hydraulic barrier. The Barrel Springs Properties are included in the Basin's Small Pumpers Class (SPC) but do not have an existing pumping allocation for the parcel planned for a new well.

The People Concern are committed sustainable use of water and other natural resources, and understand that pumping groundwater will be subject to a replenishment fee. If the groundwater production potential is less than the water demand, they will revise the project accordingly.

Sincerely,



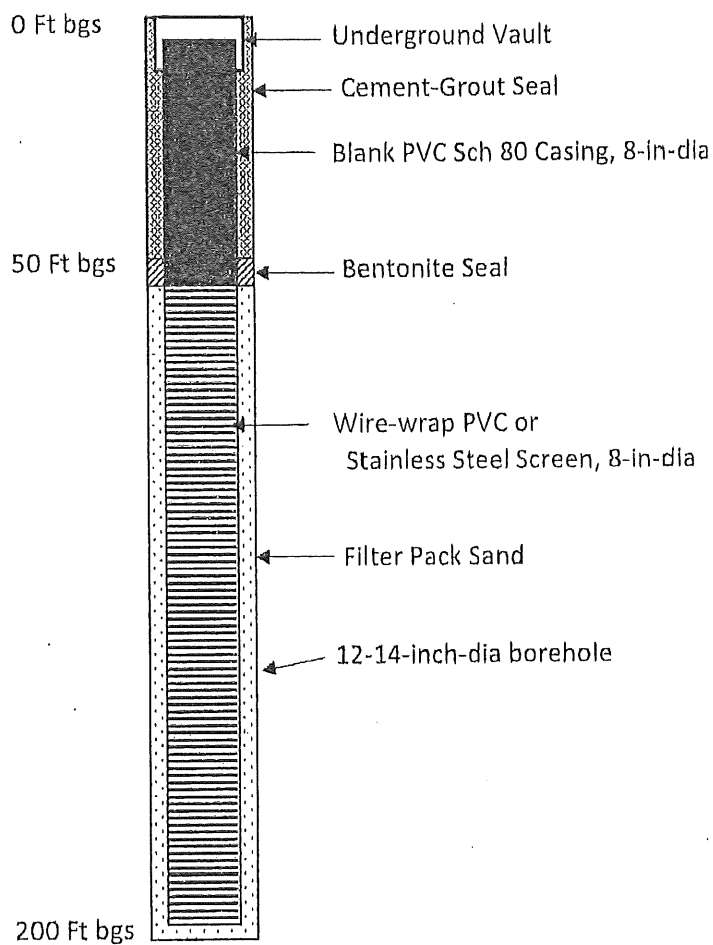
Gordon Thrupp, PhD, PG, CHG
 Senior Consultant



Mark Hana, PhD, PEG, CHG
 Senior Principal Engineer

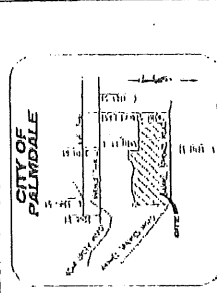
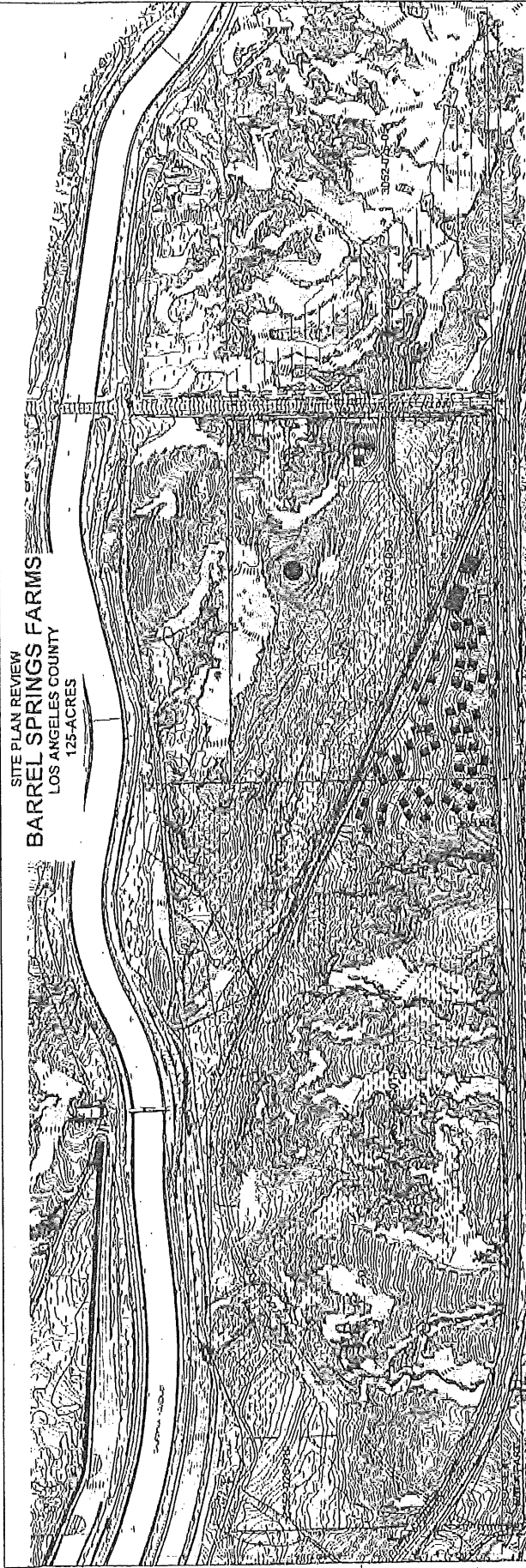
Attachment 1

Preliminary Proposed Well Construction



Actual depth, screened interval, slot size, filter pack sand will be based on material encountered during drilling. Anticipated maximum depth is 300 ft.

Estimated pumping capacity is 25 to 150 gpm. A suitable dedicated submersible pump will be in selected following development and testing.



UTILITIES

1	Water Main
2	Sewer Main
3	Gas Main
4	Electric Main
5	Telephone Main
6	Fire Main
7	Sanitary Sewer
8	Storm Sewer
9	Water Line
10	Gas Line
11	Electric Line
12	Telephone Line
13	Fire Line
14	Sanitary Sewer
15	Storm Sewer

LEGEND

1	Proposed Building Footprint
2	Proposed Parking Area
3	Proposed Driveway
4	Proposed Access Road
5	Proposed Utility Easement
6	Proposed Storm Drainage
7	Proposed Sanitary Sewer
8	Proposed Water Main
9	Proposed Gas Main
10	Proposed Electric Main
11	Proposed Telephone Main
12	Proposed Fire Main
13	Proposed Sanitary Sewer
14	Proposed Storm Sewer

PROJECT NARRATIVE

The project consists of the construction of a new building footprint, parking area, driveway, access road, utility easement, storm drainage, sanitary sewer, water main, gas main, electric main, telephone main, and fire main. The project is located in the City of Palmdale, Los Angeles County, California.

OWNER'S NOTES

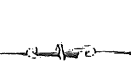
The owner has approved the proposed project and has provided the necessary permits for construction. The owner has also provided the necessary funding for the project.

LEGAL DESCRIPTION

The project is located in the City of Palmdale, Los Angeles County, California. The project is located in the City of Palmdale, Los Angeles County, California. The project is located in the City of Palmdale, Los Angeles County, California.

CLOUD BASED NOTE

GENERAL NOTES



SCALE 1" = 100'

SITE PLAN REVIEW

PROJECT: _____

DATE: _____

DESIGNED BY: _____

CHECKED BY: _____

APPROVED BY: _____

SEAL: _____

STAMP: _____

HED



ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm



COUNTY OF LOS ANGELES
Public Health

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
3052-016-017/Barrel Springs Road	Palmdale	93550	david@redbricksolution.com josh@vicswelldrillinginc.com

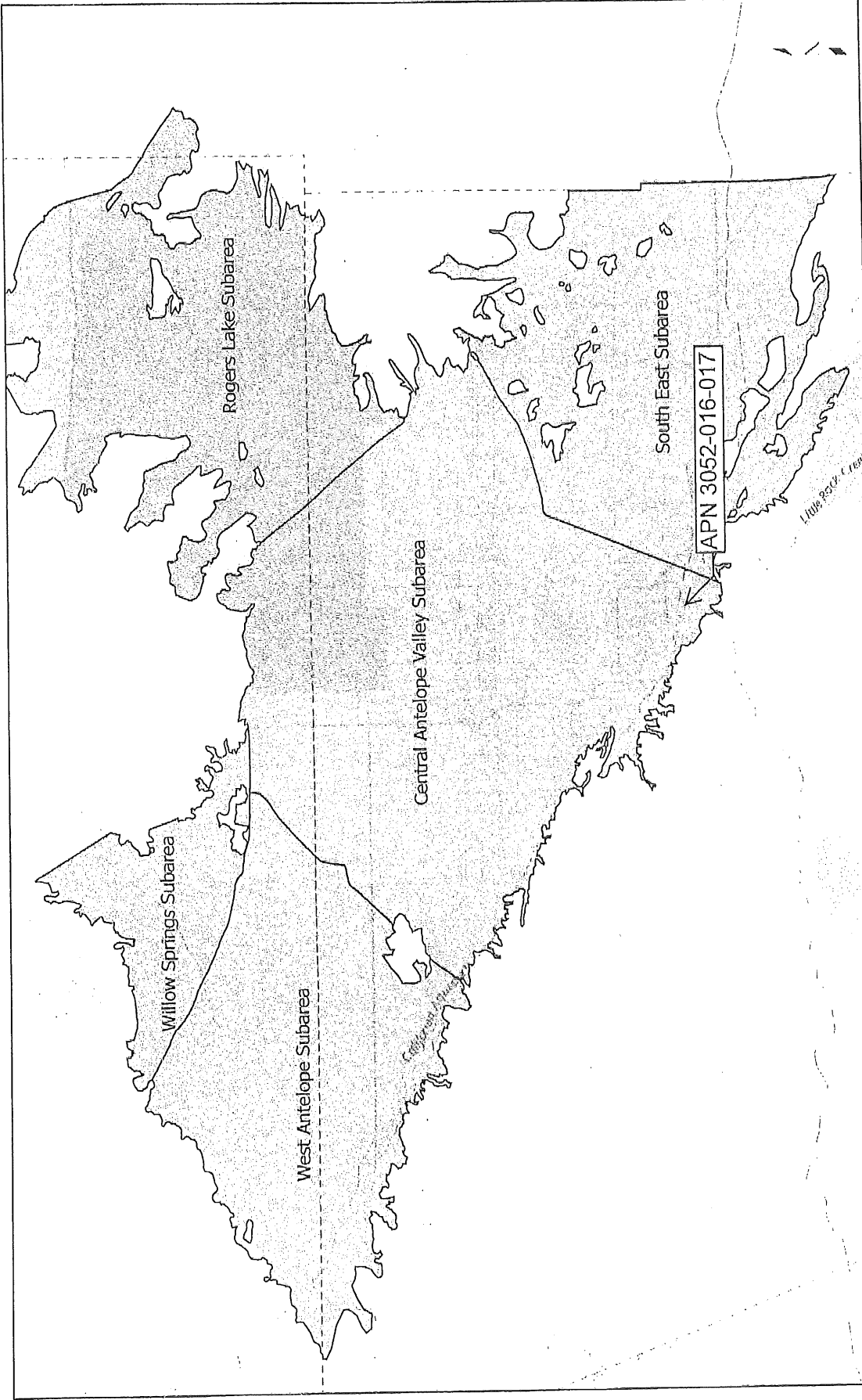
NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

<input checked="" type="checkbox"/>	WORK PLAN APPROVED FOR: Soil Boring/Exp. Hole	PERMIT NUMBER:	SR0303673	DATE:	August 15, 2022
<p>ADDITIONAL APPROVAL CONDITIONS:</p> <ul style="list-style-type: none"> • Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review. • As discussed, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction. • Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout proceeding upward from the bottom of the boring/exploration hole to surface. • Ensure soil borings are sealed per California Well Standards 74-90 <ul style="list-style-type: none"> o Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement. o Up to 6% of Bentonite may be added to the cement-based mix. o No hydrated Bentonite chips and/or soil cuttings. • Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11. <p>Please be advised this permit is for an exploratory boring only. A new application with fee to be submitted for a Production Well-Public Water Well.</p>					
<p>APPROVED BY:</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>Dr. Hachey, REHS 26415 Carl Boyer Dr. Santa Clarita, Ca 91350 (661) 77-7017</p> </div> <div style="text-align: center;"> </div> <div style="text-align: right;"> <p>5770</p> </div> </div>					

Antelope Valley Watermaster



Legend

- AV Adjudication Area
- AV Management Subareas



PALMDALE WATER DISTRICT

A CENTURY OF SERVICE

BOARD OF DIRECTORS

W. SCOTT KELLERMAN
Division 1

DON WILSON
Division 2

GLORIA DIZMANG
Division 3

KATHY MAC LAREN-GOMEZ
Division 4

VINCENT DINO
Division 5

DENNIS D. LaMOREAUX
General Manager

ALESHIRE & WYNDER LLP
Attorneys

December 12, 2022

Carol Sevilla
Barrel Springs Properties, LLC.
1719 California Avenue
Santa Monica, CA 90403

**RE: SERVICEABILITY - PROPERTY APN 3052-016-017
W.S.M. 34-63;66 (Re-issued)**

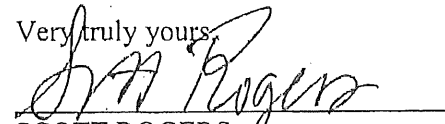
Dear Antelope Valley Watermaster:

This letter replaces the serviceability letter dated August 11, 2022, after additional information was provided on the parcel. The above-mentioned parcel is located within the service boundaries of the Palmdale Water District (District) and the District's Palmdale Ditch transverses the parcel and lies at the lowest elevation of the parcel. The District will require the Palmdale Ditch to be enclosed so that the ditch is not negatively impacted by water runoff from the parcel.

There is infrastructure located within proximity of the above-mentioned parcel; however, the parcel lies at a higher elevation than can be served by the District's existing system. Improvements to the District's system would be necessary to serve the parcel. Therefore, the owner may elect to either construct the necessary water system improvements so the District can serve the parcel or seek approval through the Antelope Valley Watermaster for the construction of a private well to serve this parcel. This letter shall be valid for one year from the date the letter was issued.

Please feel free to contact me at (661) 456-1020 if you have any questions.

Very truly yours,


SCOTT ROGERS,
Engineering Manager
SR/jv



I. INTRODUCTION

A. LOCATION OF PROPERTY

The 125-acre Project is a Farming and Farmworker Housing Development Community that is located northeast of the intersection of Barrel Springs Road and 40th Street East, just south of the City of Palmdale, CA consisting of APN's 3052-16-017 & 010, and 3052-026-050. An additional 40-acres (APN 3052-026-051) is located just east of the site will be developed as a solar farm to support the site to the west.

B. PURPOSE AND SCOPE

The purpose of this analysis is to anticipate the actual water demand upon the existing aquifer considering most of the water pumped will be infiltrated back into the aquifer on-site.

C. PROJECT DESCRIPTION

The Project Development Plan is designed as a "Self-Sustainable Living Community". The Project has been designed to create a micro-living-environment that caters to almost all the needs of its future farmworker community without placing additional burdens on the neighboring resources as it embraces a minimal-carbon footprint lifestyle that can be described in the following terms:

1. Farming Irrigation and Operations
2. 144 custom designed "farmworker-optimized" affordable dwelling Units and associated structures for services as follows
 - A Caretaker residence.
 - A Multi-Purpose Center
 - A Dining Hall with serving kitchen.
 - A Produce Stand-Market
 - An Equipment Storage Barn
 - A Detention Basin/Park

The Project will be used as agricultural land including grazing, crops, orchards, and small animal husbandry. The County has advised the Project is Statutorily exempt from the California Environmental Quality Act ("CEQA") because the Project will be reviewed via Ministerial Site Plan Review and Administrative Housing Permit.

As there are no existing sewer, water, or natural gas services currently serving the subject property and the Project will generate and provide its own utilities from entirely within the Project's property boundaries, except for LA County Sheriff and Fire services. As such the Project will meet 2040 water and sewer allowances by providing its own reclaimed system that recharges associated underlying aquifer.

D. WATER AND SEWER SERVING THE PROJECT

The Project Site is currently vacant and is consistent with the County General Plan and Zoning with a RL2-Rural Land Use Designation and an A-1-2 Light Agricultural Zone respectively for the farmworker housing and community center and includes a request for the accessory uses listed above.

II. ESTIMATED WATER CONSUMPTION GENERATED BY THE PROJECT

A. DOMESTIC DEMAND:

Per California Assembly Bill 1668 dated May 31, 2018, the per capita limit for water is 55 gpd. Figuring that the Project will house 144 Farm Workers translates to (144×55) 7,920 gallons per unit per day. In addition, the peripheral support facilities will in general reduce personal uses, so their demand is limited to foodservices. Considering that In the U.S., we use only 10% of our overall water consumption for drinking and cooking (Columbia Climate School "From Wastewater to Drinking Water" by Renee Cho April 4, 2011), the rest is flushed down the toilet or drain. Thus, we expect this additional consumption to be 10% of the daily demand.

For the purposes of this Study, the Project will have a farmworker component demand of $(7,920 \times 1.1 =)$ 8,712 gpd which is 9.8 afy (acre feet per year).

B. FIRE FLOW PROTECTION SYSTEM DEMAND:

To ensure the Fire Protection System and Infrastructure will meet the requirement set forth by the Apple Valley Fire Protection District. The infrastructure will need to include the following:

- All permanent structures will have internal sprinkler systems per California sprinkler system codes
- Hydrants will be located per the requirements of the LA county Fire Protection district.
- Supply piping will be sized to adequately handle the water flow requirements (volume and pressure) to every hydrant.

The fire flow rate requirement established by LA County Fire Protection district from similar Projects is 2,250 gpm. for a two (2) hour duration. This combination of flow rate and duration consumes a water volume of 270,000 gallons.

C. EVAPOTRANSPIRATION DEMAND:

Evapotranspiration is the process by which water is transferred from the land to the atmosphere by evaporation from the soil and other surfaces and by transpiration from plants.

The Project is in the area known as the California High Desert Valleys and is classified by the California Irrigation Management Information System (CIMIS) as ETo Zone 17 which has the second highest evapotranspiration rates in the State. Monthly average rates range from 1.86 to 9.92 Inches/month for a yearly rate of 66.5 inches.

Landscape water demands:

Given the following:

Each DU will be xeriscape with no with consumption =	0 square-feet
40.1-acreas of usable farmland =	1,803,384 sf
Maximum Applied Water Allowance Plant Factor =	0.20
Eto =	66.5 in/yr
Irrigation Efficiency =	0.81

Then the Estimated Water Used (Gallons per Year) is:

$$(Eto/12) \times (PLANT FACTOR) \times (HYDROZONE SQ. FT.) \times (.62)/ IRRIGATION EFFICIENCY =$$

$$(66.5/12) \times 0.20 \times 1,803,384 \times 0.62/0.81 = 1,529,908 \text{ cfy} = 35.12 \text{ afy}$$

Considering that on average the Project irrigation demand is 2.7-afy per acre or $(40.1 \times 3 =) 108$ acre-feet per year or 31,355 gallons per day.

D. MITIGATION MEASURES TO CONSIDER:

The Project's water demand requirements can be reduced by the following innovative design features:

1. Xeriscape (waterwise landscaping): the process of landscaping, or gardening, that reduces or eliminates the need for irrigation. It is promoted in regions that do not have accessible, plentiful, or reliable supplies of fresh water. Xeriscapes can reduce water consumption by 60% or more compared to regular lawn landscapes.
2. Infusing Aquifer Through Hydromodification/Infiltration: The LA County Low Impact Development Watershed Water Quality Management Plan, has become standard practice for all development which requires infiltration of 2-year (85th percental) storm flows.
3. Water Efficient Toilets and Faucets. a
4. Reclaimed Water from the proposed Packaged Wastewater Treatment Plant: Use of recycled water in lieu of potable water is encouraged by the State Water Board as described below:
 - a. The State Water Board's Strategic Plan Update 2008-2012 includes a priority to increase sustainable local water supplies available for meeting existing and future beneficial uses by 1,725,000 acre-feet per year (afy) in excess of 2002 levels by 2015.
 - b. The State Water Board's Policy for Water Quality Control for Recycled Water states the following goals (in part): 1) Increase the use of recycled water over the 2002 level by at least 1 million afy by 2020 and by at least 2 million afy by 2030. 2) Increase the amount of water conserved in urban and industrial uses by 20 percent compared to 2007. 3) Substitute as much recycled water for potable water as possible by 2030

E. FINDINGS AND CONCLUSIONS

Estimated Well Flow Rate: Per the Antelope Valley water Master Groundwater Elevations Map, the groundwater elevation below this Project is 2575. Considering the proposed well site is at an elevation of 2970 then the ground water would be 415 feet down from natural grade. Information obtained by local well driller suggests that substantial water is around 400-feet and can produce 25 to 125 gpm depending on well and pump size.

Historic water reports by Everett L. Clark, Consulting Civil Engineer Dated May 5, 1952 and Tracy Bousman, Consulting Civil Engineer Dated June 3, 1969 show that a well capable of producing 100 gpm is probable below 300-feet.

To meet the demand of $(31,355 + 8,712) = 40,067$ gpd a pump would be required to run at $(40067/24/60)$ 27.82 gpm constantly which falls in lower the range listed above.

Affects of the San Andreus Fault and the Aqueduct: The historic water reports by Everett L. Clark, Consulting Civil Engineer Dated May 5, 1952 and Tracy Bousman, Consulting Civil Engineer Dated June 3, 1969 states that the "fault acts as partial barriers to northward movement of groundwater" that leads to the existence of high ground water that support localized grasslands. Their reports also claim that "Water levels and geology indicate that several hundred feet of material below the ranch may be saturated and provide a considerable storage volume for long term use." Drilling logs show the upper 26-feet is silty sand comprising of 65% sand and 35% silt before hitting clay lenses at 26, 28, 31, and 36-feet that support the perched higher ground water in this area. Drilling depths at 400-feet and below would support water draw down in a lower aquifer that most likely would have little affect on the upper aquifer.

Tank Storage Capacity: To meet the required 3-day domestic use storage capacity $(8,712 \times 3 = 26,136$ gallons) plus the fire flow requirements (270,000 gal), a 300,000-gal water tank is required that could be achieved by using 2 tanks 40ft in dia., and 16 ft in height to achieve a total storage volume of 300,656 gallons.

Water Demand Net Effect: As an IRS 501(c)(12) public benefit corporation managing its own water supply and acting as a water company, the net effect this Project will have on the existing water supply can be attributed by the overall losses in the system. Considering that In the U.S., we use only 10% of our overall water consumption for drinking and cooking (Columbia Climate School "From Wastewater to Drinking Water" by Renee Cho April 4, 2011), the rest is flush down the toilet or drain.

This Project will then take the remaining 90% or $(8,712 \text{ gpd} \times 0.9)$ 7,840 gpd and put back into the underground aquifer by means of infiltration through septic leach field distribution. Thus, the net water loses in the system will be the consumption for drinking and cooking along with the evaporation and evapotranspiration losses after infiltrating the excess water back into the aquifer.

The net water consumption would then be as follows:

Drinking and cooking (8,712-7,840 gpd=)	0.98 afy
<u>Farming Evapotranspiration =</u>	<u>35.12afy</u>
Total drawdown on the Aquifer=	36.1 afy

Conclusions: Although the Project when fully built out will pump (108+9.8=)118 afy of water from the underlying aquifer, our true drawdown demand on the aquifer has been shown to be 36.1 afy considering the remaining 81.9 afy will be infiltrated back into the underlying aquifer.

In addition, the Project will be phased during construction of housing and related farming activities which will require less water at its inception. Considering a 5-year buildout, our expectations are we will only need a portion of the water the first year and as the in-situ soils become organic over time, our irrigation demands should drop as-well.

Thus, the following is our expectations of water consumption:

	Purchased Water Demand	Drawdown on Aquifer
• Year-1	40-50 afy	< 15 afy
• Year-2	60-70 afy	< 21 afy
• Year-3	80-95 afy	< 29 afy
• Year-4	95-110 afy	< 33 afy
• Year-5	100-120 afy	< 36.1 afy
• Future goal	90 -100 afy	< 30 afy

As a sustainable community, it is our goal to conserve resources as technology advances. In addition, it is our hope to close escrow on the property with the knowledge that these water resources can be available to us.

Unfortunately, the 2nd postponement of the Watermasters Board meeting has put the Project in jeopardy since significant non-refundable deposits were previously negotiated based on a December 6th Watermasters Board meeting decision. A determination of what water demands the Project has access to is paramount in the decision to close escrow. Considering that a non-refundable \$50,000-dollar deposit is required on December 7th and another \$100,000-dollars on January 26th, it is crucial to be known as soon as possible that our requested water demands are reasonable and what limitations may be imposed in the future as soon as possible.

Considering that the actual Project drawdown on the aquifer is 36.1 afy, the effect on the 110,000 afy "Annual Safe Yield" established by the Court is only a miniscule fraction being 0.0328% of the total Annual Safe Yield, and thus, our demand on the aquifer will have essentially no impact on neighboring properties.

Given the foregoing, we respectfully request that our application for water rights to drawdown 36.1 afy (purchase 120-afy) be reinstated to the December Watermaster Board Agenda as time is of the essence relative to our land acquisition."

Cordially,
Red Brick Solution, LLC

David W Larson, PE
Principal

Exhibit B

Antelope Valley Watermaster Board
Meeting Agenda
Wednesday, February 22, 2023 – 10:00 a.m.
Location: Antelope Valley – East Kern Water Agency
6450 West Avenue N, Palmdale, CA 93551

or

"The Watermaster Board meeting will be held via teleconference connection in accordance with the requirements set out in Government Code 54953(e) and pursuant to the findings and authority set out in Watermaster Resolution No. R-23-01."

Website: <https://zoom.us/j/687127281> **Teleconference: (669) 900-6833 Access Code: 687 127 281**

This meeting may be recorded

1) Call to Order

2) Roll Call

BOARD OF DIRECTORS

Robert Parris, AVEK Representative – Chairperson
 Kathy MacLaren, Public Water Supplier Representative – Vice-Chairperson
 Russ Bryden, Los Angeles County Waterworks District 40 Representative
 Brandon Calandri, Landowner Representative
 Derek Yurosek, Landowner Representative
 Dwayne Chisam, AVEK Representative Alternate
 Angelica Martin, Landowner Representative Alternate
 Adrienne Lewis Reca, Landowner Representative Alternate
 Barbara Hogan, Public Water Supplier Representative Alternate
 Sami Kabar, Los Angeles County Waterworks District 40 Representative Alternate

Jim Beck, Hallmark Group – Watermaster Administrator
 Jessica Alwan, Hallmark Group – Watermaster Administrator
 Joshua Montoya, Hallmark Group – Watermaster Administrator
 Phyllis Stanin, Todd Groundwater – Watermaster Engineer
 Arden Wells, Todd Groundwater
 Craig Parton, Price, Postel & Parma LLP – General Counsel

3) Adoption of the Agenda *(Note: At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.)*

4) Public comments for non-agenda items *(This portion of the agenda allows an individual the opportunity to address the Board on any item regarding Watermaster business that is NOT ON THE AGENDA. Without acting or entering a dialogue with the public, Board members may ask clarifying questions about topics posed by the public. Your matter may be referred to the administrator and/or advisory committee.)*

5) Consent Agenda *(Staff Report: Administrator)*

Item	Description	Page
a.	Financial Report and Payment of bills through January 31, 2023	4
b.	Minutes of January 25, 2023, Regular Meeting	25

6) Consideration and Possible Action on In-Person Meetings *(Staff Report: Administrator)*

Item	Description	Page
a.	Post-COVID Brown Act Requirements for In-Person and Teleconference Meetings	31

7) Advisory Committee Report (*Advisory Committee Chair Chaisson*)

Item	Description	Page
a.	Advisory Committee Written Report	35

8) Administrative Committee Report (*Staff Report: Administrator*)

Item	Description
a.	Administrative Committee Report

9) Consideration and Possible Action on Hallmark Group's Amendment No. 2 (*Staff Report: Administrative Staff*)

Item	Description	Page
a.	Amendment No. 2 to the Consulting Services Agreement to Complete a Rate Assessment, Outreach, and Develop Fiscal Policy for 2024 Fee Schedule	42

10) Update on 2023 Replacement Water Assessment Rate (*Staff Report: Administrative Staff*)

Item	Description	Page
a.	Update on 2023 Replacement Water Assessment Rate	48

11) Consideration of Memorandum Recommending Amendment to the Rules and Regulations for Repayment of Delinquent RWA's (*Staff Report: General Counsel*)

Item	Description	Page
a.	Amendment to the Rules and Regulations for Repayment of Delinquent RWA's	49

12) Consideration of Memorandum Recommending Amendment to the Rules and Regulations Placing Limitations on New Production (*Staff Report: General Counsel*)

Item	Description	Page
a.	Amendment to the Rules and Regulations Placing Limitation on New Production	51

13) Consideration and Possible Action on New Production application (*Staff Report: Engineer*)

Item	Resolution No.	Description	Page
a.	R-23-06	Long Valley Rd (300 AF)	62
b.	R-23-15	Brenda Lee (1.5 AF)	135
c.	R-23-16	Mendez and Guerra (1.5AF)	149
d.	R-23-17	Jennifer Phillips (1.5 AF)	178

14) Consideration and Possible Action on Transfer application (Staff Report: Engineering)

Item	Resolution No.	Description	Page
a.	R-23-18	Steve and Denise Godde to Robertson's Ready Mix (150 AF)	198
b.	R-23-12	Lane to Vulcan (600 AF)	227
c.	R-23-19	Nick and Janet Van Dam to Gene Wheeler Farms (146 AF)	257
d.	R-23-20	Pamela Godde to Robertson's Ready Mix (150 AF)	271

15) Consideration and Possible Action on Non-Production Well application (Staff Report: Administrative Staff)

Item	Resolution No.	Description	Page
a.	R-23-21	Evergreen Mutual Water Co	300

16) Administrator's Report

Item	Description	Page
a.	Update on Administration Activities	310

17) Watermaster Engineer's Report

Item	Description	Page
a.	Summary of New Production and Qualified Small Pumpers	311
b.	Model Update	

18) General Counsel's Report

Item	Description	Page
a.	Update on Court Proceedings	313

19) Board Members Request for Future Agenda Items**20) Closed Session, Conference with Legal Counsel General Counsel's Report**

Item	Description
a.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Zamrzla Parties
b.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Rancho Sierra Properties, LLC
c.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Antelope Valley Resource Conservation District

21) Closed Session Report**22) Adjournment – Next Meeting March 22, 2023**

Resolution No. R-23-06
New Production Application – Long Valley Rd

RESOLUTION NO. R-23-06

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT;
ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment (“Judgment”), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for new production is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that application for new production be denied or approved, and that approval may be pursuant to certain conditions such as payment of a replacement water assessment; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings, including that the applicant has a right to produce groundwater under the Judgment or otherwise agrees to purchase replacement water, that all conditions for new production are met under the Judgment and the Rules and Regulations, and that no Material Injury will result from the proposed production; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the application listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for new production or new point of extraction of those Parties or Persons whose names and information are listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-06 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held on February 22, 2023, in Palmdale, California.

Date: _____

ATTEST: _____
Jessica Alwan – Secretary

Robert Parris, Chairman

**Exhibit A Attachment to
Resolution No. R-23-06**

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT**

APN#	Amount Requested	Use of Well	Subarea	Applicant/Property Owner
3075-007-001	300 AF	Agriculture	South East	Long Valley Road, L.P.

January 11, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: APN# 3075-007-001 (Long Valley Road L.P.) New Production Application Findings

Watermaster Board:

Long Valley Road L.P (Long Valley) is recorded as a Small Pumper in the Judgment but has been producing more than 3 acre-feet per year (AFY) for irrigation and maintenance at a potted plant nursery. A one-time transfer of 1,391 AF of Carry Over Water from Gene Nebeker to Long Valley Road was approved in 2019, and Long Valley has used that water to offset Replacement Water Obligations in 2018 and subsequent years. The Watermaster has requested Long Valley to submit a New Production application to continue to overproduce its Small Pumper Production Right of 3 AFY.

Long Valley is requesting 300 AFY of New Production. Its past Annual Water Production Reports indicate that they produced the following:

- 324.9 AF (2016) estimated based on electrical usage
- 386.6 AF (2017) estimated based on electrical usage
- 325.69 AF (2018) estimated based on electrical usage
- 287.59 AF (2019) estimated and metered
- 269.58 AF (2020) metered
- 266.65 AF (2021) metered.

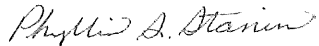
Long Valley obtained the property in the South East Subarea in March 2006 (**Figure 1**). The property is approximately 135 acres of five contiguous parcels located near the intersection of 160th Street East and Palmdale Boulevard in Llano, California. In mid-2006, Long Valley, through its tenant/lessee Boething Treeland Farms, Inc. and contractor Rottman Drilling Co., completed two new agricultural production wells on the property. Well Completion Reports were included in the New Production application. Watermaster approved meters were installed on the wells in early 2019.

Figure 2 shows representative hydrographs near the property that have recently measured water levels. The closest well (USGS 95201) is about $\frac{3}{4}$ of a mile northeast and shows a slight decline in water levels of less than ten feet since about 2014. The next closest well with recent

data (USGS 00601) is about 2.25 miles to the south and shows a steeper decline in water levels of about 25 feet since about 2013. However, there are no indications of Material Injury in this area based on current pumping amounts. Long Valley production is not expected to increase as a result of this application.

Because Long Valley will be required to pay a Replacement Water Assessment (RWA) for production (or use transfer water to meet future RWA obligations), there is no Material Injury associated with groundwater storage and sustainable yield. There is no expected impacts to inelastic land subsidence in this area and no water quality impacts are anticipated as current operations are similar to historical operations. Recognizing that this New Production does not represent new pumping and that there is an absence of ongoing Material Injury associated with water levels, the continued production at similar levels is not expected to result in any significant local water level decline; therefore, impacts are considered negligible, and no Material Injury is expected.

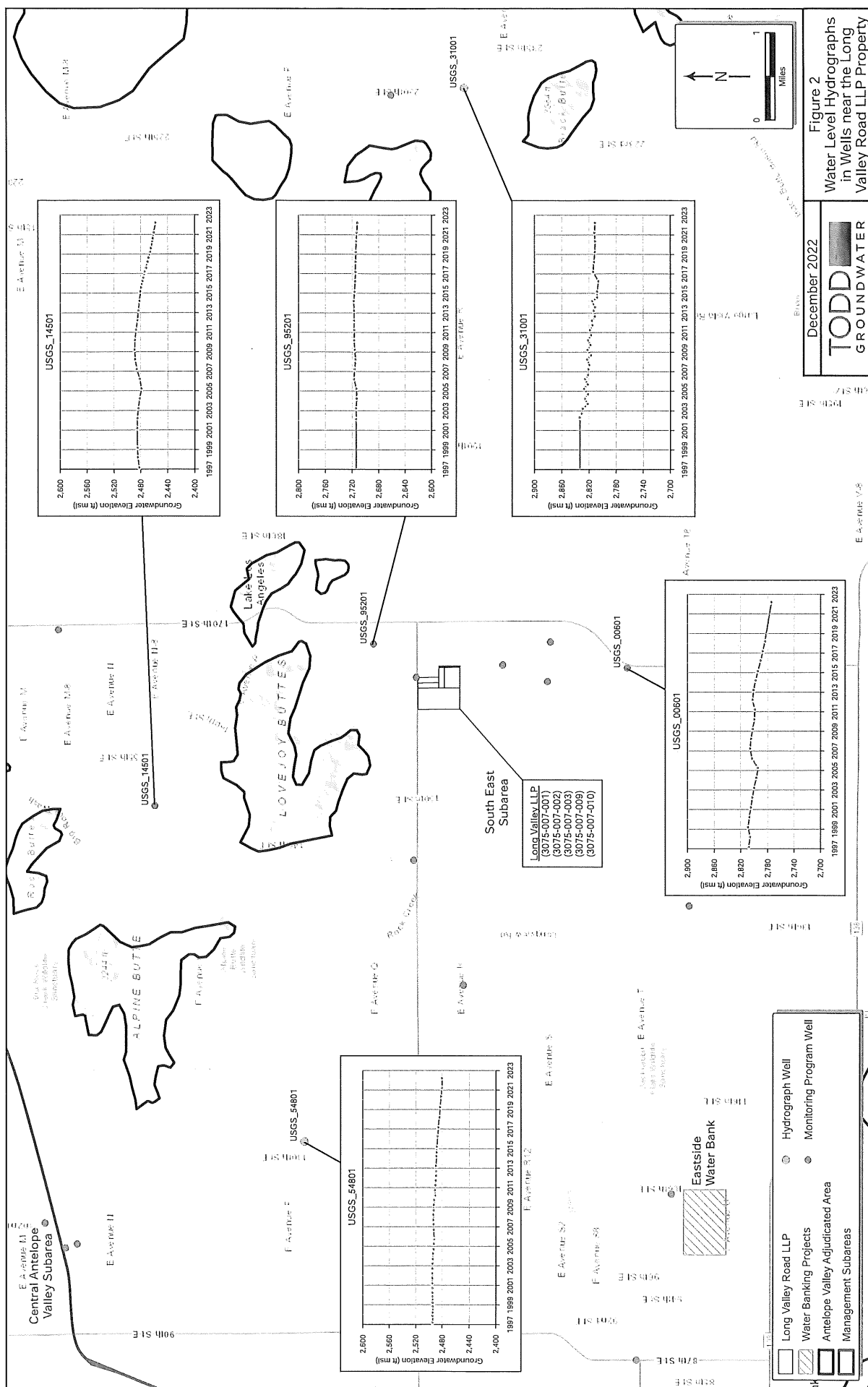
Sincerely,

A handwritten signature in cursive script, reading "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer





NEW PRODUCTION APPLICATION

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:
<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 5022 West Avenue N, Suite 102 #158, Palmdale, CA 93551 OR email to:
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

Date December 5, 2022 Proposed Well Site APN 3075-007-001

Property Owner/Well Owner Long Valley Road, L.P.

Property Owner/Well Owner Mailing Address C/O Bruce Pherson, 23475 Long Valley Road, Woodland Hills, CA 91367

Contact Phone Number (818) 316-2090 Contact email bpherson@boethingtreeland.com

New Well Latitude/Longitude (or x, y) 34.57279N x 117.84004W Antelope Valley Subarea: South East

Use of New Well (Agricultural, Domestic, Industrial, Municipal, Monitoring, etc.) Agricultural

If Domestic well, will well be used to supply one single family household only? Yes/No N/A

Do other wells exist on this property? Yes/No. If Yes, indicate if active, inactive, or abandoned and show on Site Plan.

When will a meter be installed on the well? Judgment-compliant meters installed on the property's two active irrigation wells during February 2019, approved by Watermaster Engineer March 5, 2019.

New Production requests are to include the following (Section 18.5.13 of the Judgment):

1. Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production. Please attach a check to this application submittal for the fee associated with a New Production application as per the fee schedule posted on the Watermaster website. Check can be made out to Antelope Valley Watermaster.
2. Written summary describing the proposed quantity, sources of supply, season of use, purpose of use, place of use, manner of delivery, and other pertinent information regarding the New Production. Please see Attachment A.
3. Maps¹ identifying the location of the proposed New Production, including Basin Subarea. Please see Attachment B.
4. Well information² including proposed well design, estimated annual pumping, and agreement to install a meter in accordance with the Rules & Regulations. Plus, a statement that once the well is installed, the applicant will provide water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production. Please see Attachment C.
5. Written confirmation that applicant has obtained all necessary entitlements and permits including all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production. Please Attachments A and C.
6. Written confirmation that applicant has complied with applicable laws and regulations including all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.). Please see Attachments A and C.
7. Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices. Please see Attachment D.
8. Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin. Please see Attachment A.
9. Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin. Please see Attachment A.
10. A written statement, signed by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, determining that the New Production will not cause Material Injury. Material injury could be in the form of

¹ Maps are to include North arrow and scale, location of proposed well with dimensions in feet from well to nearest cross streets, and location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.

² Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

significant and unreasonable 1. Chronic lowering of groundwater levels, 2. Reduction of groundwater storage, 3. Degraded water quality, 4. Land subsidence, 5. Depletions of interconnected surface water such that beneficial uses are impacted. Please see Attachment E.

11. Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.

12. Other pertinent information which the Watermaster Engineer may require.

Please see Attachment A.

In addition, all New Production applicants who are not Parties to the Judgment³ are to comply with Section 20.9 of the Judgment, consult with the Watermaster Engineer, and seek the Watermaster's stipulation to allow them to intervene to become bound by the Judgment prior to commencing Production. The non-Party applicant must file a motion to intervene with the court that includes reference to their effort to obtain the Watermaster's stipulation to the intervention. It is strongly recommended that the non-Party applicant consult with a lawyer to assist them with compliance with Section 20.9 of the Judgment. If applicant believes they are part of the Non-Pumper Class (see footnote below) and therefore does not need to intervene in the Judgment, please provide supporting documents or statements demonstrating adherence to items 1-6 in the footnote.

SIGNATURES

Under penalty of perjury, I understand and agree to be bound by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. I certify that the information provided on this Request for New Production is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment. I further understand and agree that the purpose, place and quantity of New Production, if any, approved by the Watermaster pursuant to this application shall be the only purpose and place, and the maximum amount, of New Production that I can Produce in any given Year. I certify that I will comply with the restrictions set forth in Section 14.n of the Watermaster Rules and Regulations setting forth limitations on New Production, and that my failure to comply with these restrictions may result in a revocation of my New Production rights.

Signature of Applicant  Date 12-6-2022

³ An applicant may already be a Party to the Judgment if they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5.22 of the Judgment, as follows:

1. They are a private party and not a "governmental" entity.
2. They (or their successor in interest—see no.4 below) own real property within the Adjudicated Area and were not pumping water at the time of the Judgment being entered as of December 2015.
3. They (or their successor in interest—see no. 4 below) did not pump water on their property "at any time during the five Years preceding January 18, 2006."
4. Non-Pumper class status applies to those who are successors in title or interest (via gift or purchase or inheritance or otherwise) to a Non-Pumper Class member's land that meets the above criteria.
5. Note the term "Non-Pumper Class Member" does not apply to those who opted out or to those connected to a municipal water system, public utility, or mutual water company from which they receive water service. Also, their land cannot be considered "improved" by the Assessor's Office of Los Angeles or Kern County, unless the person declares under penalty of perjury that they do not pump and have never pumped water on those properties.
6. Finally, the Non-Pumper Class does not include anyone individually named in the Public Water Suppliers' cross-complaint unless those persons opted into the Non-Pumper Class.

To be completed by the Watermaster:Watermaster Engineer Approval Phyllis A. Stanim Date 1/11/2023

Watermaster Board Approval _____ Date _____

NOTE: This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.

Attachment A

Response to Items 2 (Written Summary), 5 (Necessary Entitlements and Permits), 6 (Compliance With Applicable Laws and Regulations), 8 (Economic Impact), 9 (Physical Impact), 11 (Applicable Replacement Water Assessment)

Long Valley Road, L.P. (“Long Valley”) is the owner of approximately 135 acres of real property, consisting of five contiguous parcels, located near the intersection of 160th Street East and Palmdale Boulevard in Llano, California (the “Property”). See Attachment B (Maps). Long Valley obtained the Property in March 2006 from an entity known as the Palmdale Administrative Trust. Between May and July of 2006, Long Valley, through its tenant/lessee Boething Treeland Farms, Inc. (“Boething Treeland”) and contractor Rottman Drilling Co. (“Rottman Drilling”), completed two new agricultural production wells on the Property (the “Production Wells”) and properly submitted Well Completion Reports to the State of California, Division of Water Resources. See Attachment C. Prior to completing the Production Wells, Rottman Drilling obtained the necessary permits from the Los Angeles County Department of Environmental Health on Boething Treeland’s behalf. See Attachment C. The Production Wells, which are State Well Numbers 2006-010124 and 2006-011848, and Boething Treeland refers to internally as the “East Well” and the “West Well”, provide irrigation water for the Treeland Antelope Valley operation. Groundwater that is pumped through the Production Wells then used to irrigate potted plants that Boething Treeland, and the remainder is used for other agricultural purposes such as washing. Long Valley and Boething Treeland Farms have complied, and will continue to comply, with all applicable laws and regulations with respect to their use and maintenance of the Production Wells.

Since completing the first of the two Production Wells in June 2006, Long Valley, through its tenant Boething Treeland, has continuously operated a wholesale commercial nursery known as “Treeland Antelope Valley” at the Property. As Treeland Antelope Valley is an agricultural operation, Long Valley has also pumped significant groundwater for irrigation and other agricultural purposes in each year – and indeed each month – since completing the first of the Production Wells in June 2006. Specifically, Long Valley has produced and beneficially used the following amounts of water from beneath the Property, via the Production Wells:

<u>YEAR</u>	<u>AF</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
2006	90	180	194	405	335	278	292	247	284	268	325	387	326	288	270	267

Meters that comply with the requirements of the December 23, 2015 Judgment and Physical Solution (“Judgment”) and the Watermaster Rules & Regulations were installed on the property's two active irrigation wells during February 2019 and approved by Watermaster Engineer March 5, 2019. Prior to installation of the compliant meters, and beginning in August 2008, Boething Treeland recorded its water usage using previously installed meters on the Production Wells, and manually noting the combined number of acre-feet pumped in each month. Water usage between March 2006 and August 2019 is estimated based on records of electricity consumption for the relevant pumps and physical observation.

Long Valley is recognized as a member of the Small Pumper Class under the Judgment, and allotted 3 AF of annual Production right based on that designation. Because Treeland Antelope Valley requires up to 300 AF of pumper groundwater for agricultural irrigation on the Property each year, in 2018 it moved to intervene in the Judgment seeking to establish a Production Right based on historical pumping and beneficial use. Long Valley’s motion was denied as improper because it is already recognized as a party to the Judgment as a member of the Small Pumper Class. Despite believing that the decision on its motion was in error, Long Valley has operated in compliance with the Judgment and the Watermaster Rules and Regulations since that time by filing annual Production Reports with the Watermaster and purchasing Carry Over water from other parties to the Judgment to cover its annual pumping in excess of 3AF. Such compliance has been achieved through the use of Watermaster-approved Transfers of all such purchased Carry Over, and Long Valley anticipates continuing to cover its pumping in excess of 3AF, up to 300AF of additional water, through this approach for the

foreseeable future. Long Valley agrees to continue purchasing Carry Over or other applicable water rights recognized under the Judgment, including but not limited to paying any applicable Replacement Water Assessment if it is unable to contract to purchase Carry over or other applicable water right under the Judgment required to cover its annual Production in excess of 3AF.

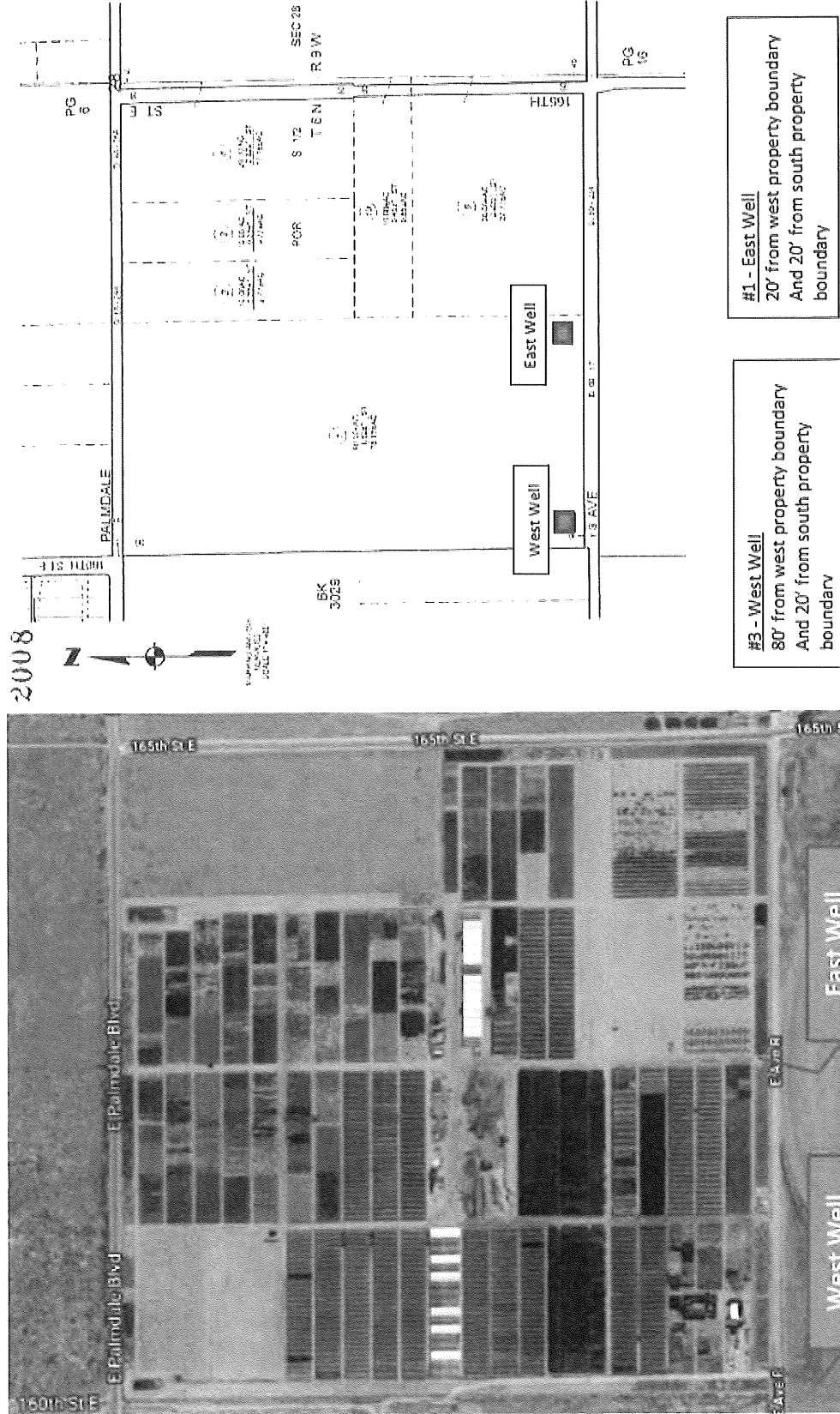
The source of supply for all water covered by this Application is the Antelope Valley Groundwater Basin, South East Sub Basin. The water is to be used throughout the year, but with increased demand during warmer and drier months, controlled by adaptive pumping and irrigation based on soil moisture in Treeland Antelope Valley's agricultural products, all of which are planted and grown in above-ground containers using electronically controlled irrigation. Boething Treeland has developed over the past four decades proven irrigation methods by using low-volume spray emitters known as "spot-spitters" that apply a precise amount of water directly to each plant container based on time that valve is allowed to run, controlled by a programmable watering system. Valves are set to water as little as possible, taking into account of weather conditions, age of plant material, and temperature. Surface runoff from irrigation, broken or damaged irrigation pipes, or natural rain events is channeled into two catch basins, then either percolates back to the aquifer or is pumped into a water wagon and used on the nursery roads for dust control.

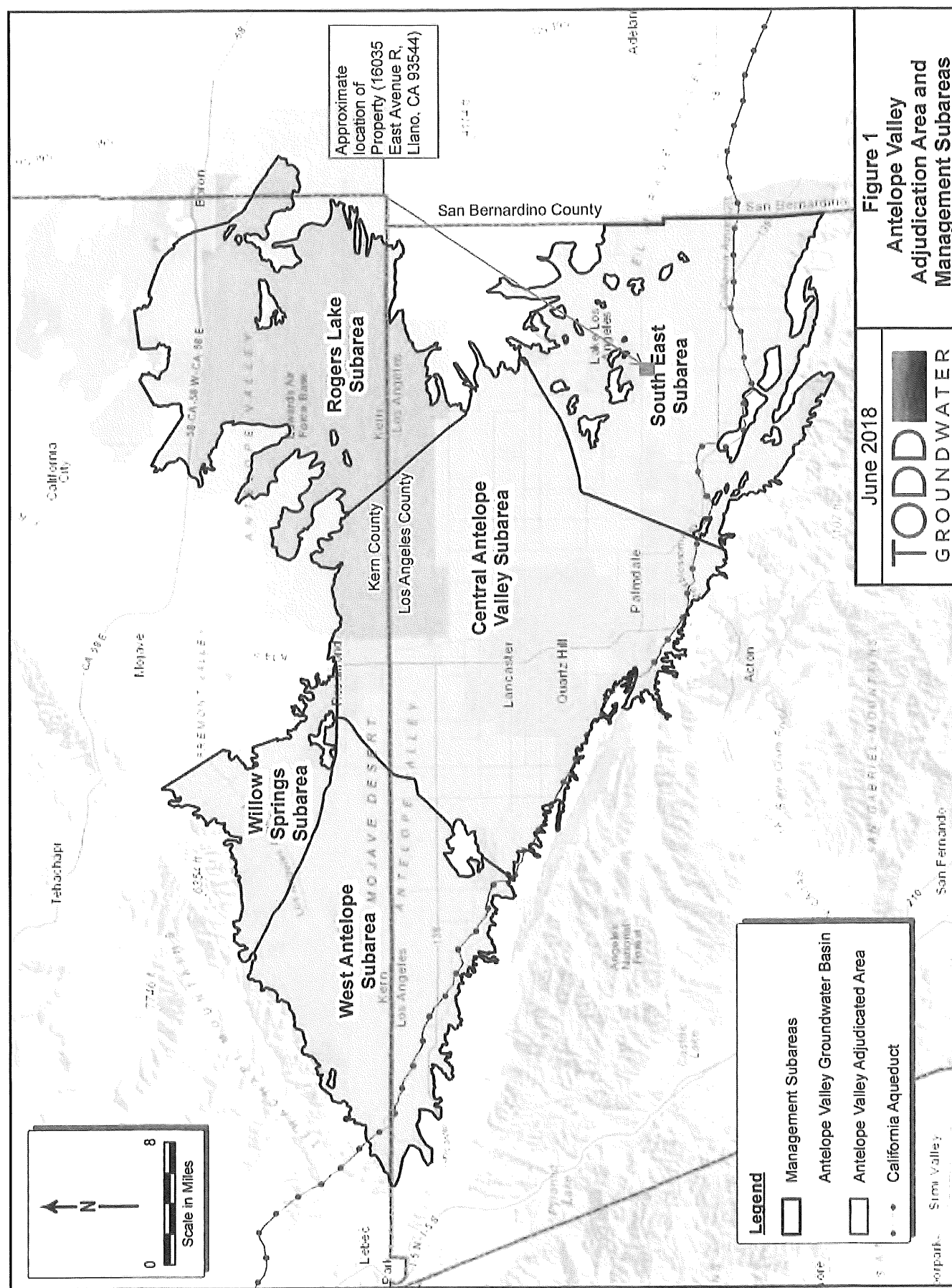
As such, although the volume, place, purpose, season, and method of use described above are subject to this New Production Application, none are in fact "new" and the Application seeks only to document and maintain the status quo that the Watermaster has been aware of and has approved related transfers to facilitate since at least 2019. Accordingly, approval of this New Production Application, which will not facilitate any pumping that has not already been

occurring and covered with purchased Carry Over or other applicable rights, will not cause any economic or physical impact to the Basin, the South East Subbasin, or any other Producers.

Attachment B

Map of Area Where Water is Intended to Be Used By Transferee
(16035 East Avenue R, Llano, CA 93544)





Attachment C

Free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet
No. 6040487

Page 1 of 1

Owner's Well Number

Date Work Began May 15, 2006

Date Work Ended June 05, 2006

Local Permit Agency Los Angeles County Environmental Health

Permit Number

Permit Date May 10, 2006

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Anglo Specify
Drilling Method Direct Rotary Drilling Fluid Bentonite mud

Depth from Surface		Description
Feet	to Feet	Describe material, grain size, color, etc
0	52	Fine to coarse sand and gravel
52	62	95% fine to coarse sand, 5% brown clay
62	75	80% fine to coarse sand, 20% brown clay
75	95	Fine to coarse sand
95	105	90% fine to coarse sand, 10% brown clay
105	125	Fine to coarse sand
125	138	Fine to coarse sand w/pieces of rock
138	160	Fine to coarse sand w/traces of clay
160	188	Fine to coarse sand
188	198	80% fine to coarse sand, 20% brown clay
198	218	Brown clay
218	238	75% fine to medium sand, 25% brown clay
238	280	50% fine to medium sand, 50% brown clay
280	290	95% brown clay, 5% medium sand
290	308	Hard gray clay
308	350	Fine to medium sand
350	380	Fine to coarse sand
380	410	85% fine to coarse sand, 15% brown clay
410	440	Fine to coarse sand
440	450	50% fine to coarse sand, 50% brown clay
450	741	Fine to coarse sand
</		

Well Owner

Name Boethling Treeand Farms

Mailing Address 36151 N. 82nd Street East

City Littlerock State CA Zip 93543

Well Location

Address East 165th Street & Avenue R

City Lake Los Angeles County Los Angeles

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

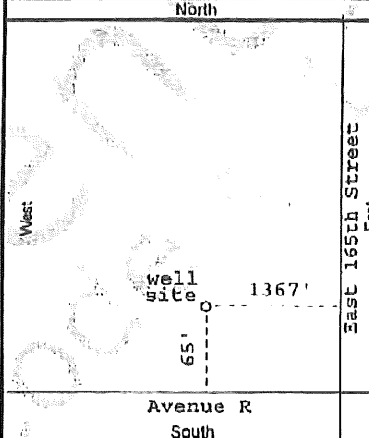
Datum WGS84 Decimal Lat. 34.57279N Decimal Long 117.84004W

APN Book 3075 Page 007 Parcel 001

Township 6N Range 9W Section 28

Location Sketch

(Sketch must be drawn by hand after form is printed.)



Illustrate or describe distance of well from roads, buildings, fences, trees, etc., and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other
☐ Destroy
 Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☒ Water Supply
☐ Domestic ☐ Public
☒ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☐ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other

Water Level and Yield of Completed Well

Depth to first water 139 (Feet below surface)

Depth to Static Water Level 139 (Feet) Date Measured 06/05/2006

Estimated Yield 2,000 (GPM) Test Type Constant Rate

Test Length 9.0 (Hours) Total Drawdown 44 (Feet)

*May not be representative of a well's long term yield. PL 183 feet

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)
0	320	28	Solid	A53B	.312	16	
320	720	26	Screen	A53B	.312	16	Milled Slots 0.080

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	50	Concrete
50	720	Filter Pack
		1/4 x 10 Gravel

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Reisman Drilling Co.

Person, Firm or Corporation

46471 N. Division Street

Lancaster

CA

93535

Signed

Michael W. Reisman

City

6/27/06

State

318599

Zip

C-57 Licensed Water Well Contractor

Date Signed

C-57 License Number

TOTAL P.02

WELL PERMIT APPLICATION - PRODUCTION WELLSWATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5010 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE: 05-04-06

<input checked="" type="checkbox"/> NEW WELL CONSTRUCTION <input type="checkbox"/> RECONSTRUCTION OR RENOVATION <input type="checkbox"/> DECOMMISSIONING <input type="checkbox"/> OTHER:	<input type="checkbox"/> PRIVATE DOMESTIC <input checked="" type="checkbox"/> IRRIGATION <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> GRAVEL PACK	<input type="checkbox"/> PUBLIC DOMESTIC <input type="checkbox"/> Small System <input type="checkbox"/> Large System <input type="checkbox"/> Other:
---	--	---

WELL LOCATION	SITE ADDRESS		CITY	ZIP CODE
	165th Street East and Avenue R, Palmdale, CA 93550			
	Township 6N	Range 9W	Section 28	Map Book Page/ Grid 3075-007-00
	GPS LOCATION: (To be completed after the final seal)			

WELL STRUCTURE	Type and Size of Production Casing	12" Steel	CONSULTANT
	Sanitary / Annular Sealing Material	10 Sack	
	Depth of Sanitary / Annular Seal	50'	
	Conductor Casing Seal	N/A	
Company			
Contact Person			
Address			
City, State Zip			
Telephone			

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

OWNER / DRILLER INFORMATION	Well Owner	Boething Treeland Farms
	Address	36151 N 82nd Street East
	City / Zip Code	Littlerock, CA 93543
	Telephone	661-944-9565
	Well Driller	Rottman Drilling Co
	Address	46471 N Division
	City / Zip Code	Lancaster, CA 93535
	C-57 License No.	316599
Telephone	661 0942-6125	

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED, A FINAL INSPECTION CONDUCTED BY THIS DEPARTMENT, AND THE RECEIPT OF A WELL COMPLETION LOG, NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
DATE: 5-10-06 BY: REHS [Signature]

Conditions: 48HR Notice Prior to Sealing the Well.

FAKED 5/15/06 TO: 949-1560

THE PLACEMENT OF THE ANNULAR SEAL MUST BE WITNESSED BY THIS DEPARTMENT. CONTACT THIS OFFICE AND ARRANGE FOR AN APPOINTMENT.

DATE: 5-15-06 BY: REHS [Signature]

THE PLACEMENT OF THE ANNULAR SEAL MUST BE WITNESSED BY THIS DEPARTMENT. CONTACT THIS OFFICE AND ARRANGE FOR AN APPOINTMENT.

PERMIT APPROVAL
DATE: 5-15-06 BY: REHS [Signature]

DATE: 5-15-06 BY: REHS [Signature]

THE COMPLETED WELL MUST BE PROPERLY DISINFECTED AND MEET BACTERIOLOGICAL STANDARDS PRIOR TO USE.

WATER QUALITY
The water from this well must meet bacteriological standards prior to domestic use.

DATE: 5-15-06 BY: REHS [Signature]

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

[Signature]
Applicant's Signature
Applicant Name (PRINT) Larry W. Rottman
Telephone: 661-942-6125

COUNTY OF LOS ANGELES

DEPARTMENT OF HEALTH SERVICES

RECEIPT/RECIBO

- ☐ HARBOR-UCLA MEDICAL CENTER ☐ RANCHO LOS AMIGOS MEDICAL CENTER
☐ HIGH DESERT HOSPITAL ☐ LAC-USC MEDICAL CENTER
☐ KING/DREW MEDICAL CENTER ☒ PUBLIC HEALTH
☐ OLIVE VIEW MEDICAL CENTER SPECIFY: WES

ANY ALTERATION OR ERASURE RENDERS RECEIPT VOID

DATE

5/10/6

CUALQUIER ALTERACION O BORRÓN HACE ESTE RECIBO NULO

RECEIVED FROM: <u>Rothman</u>		\$ <u>302.00</u>	
THE AMOUNT OF <u>Three Hundred & Two</u>		<u>00</u> 100	
<input type="checkbox"/> CASH		<input type="checkbox"/> MONEY ORDER # _____	
<input checked="" type="checkbox"/> CHECK # <u>62857</u>		<input type="checkbox"/> VISA <input type="checkbox"/> MASTER CARD # _____	
PATIENT NAME _____			
PF # _____		ACCOUNT NO. _____	
DATE OF SERVICE _____		PAYMENT RECEIPTS FOR <input type="checkbox"/> MEDICAL SERVICES <input type="checkbox"/> PHARMACY	
MISCELLANEOUS <u>Avenue R & 165th St.</u>			
<u>APN 3075-007-001</u>		<u>#1</u>	
<u>661 942 6125</u>			

RECEIVED BY

Chris Ylinen

No. 0679258

HS 65 76C(SOR (3/90) 5/99

PATIENT'S COPY

SERVICE APPLICATION REQUEST AND FEE COLLECTION
COUNTY OF LOS ANGELES – DEPARTMENT OF HEALTH SERVICES'
PUBLIC HEALTH PROGRAMS – ENVIRONMENTAL HEALTH
SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make the money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*

TYPE OF SERVICE

	<input type="checkbox"/>	MONITORING WELL CONSTRUCTION/DECOMMISSIONING Complete and attach a Non-Production Well-Well Permit Application.
302.00	<input checked="" type="checkbox"/>	WELL CONSTRUCTION, RENOVATION OR DECOMMISSIONING PERMIT Complete and attach a Well-Well Permit Application
	<input type="checkbox"/>	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
	<input type="checkbox"/>	PRIVATE SEWAGE DISPOSAL RENOVATION / EXPANSION
	<input type="checkbox"/>	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
	<input type="checkbox"/>	SEPTIC TANK REPLACEMENT
	<input type="checkbox"/>	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM
	<input type="checkbox"/>	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture
	<input type="checkbox"/>	WELL YIELD TEST PERMIT
	<input type="checkbox"/>	COASTAL COMMISSION APPROVAL IN CONCEPT

* Refer to Schedule of Fees for the current fiscal year. Field personnel cannot accept fees.

2. Check with the Contact Office stamped below for requirements or information
 3. Deliver the completed application, money order or check with the forms indicated to:

County of Los Angeles
Mountain and Rural Program / Water, Sewage, & Subdivision Program
5050 Commerce Drive, Baldwin Park, CA 91706
(626) 430-5380 FAX (626) 813-3016

4. Please contact office noted below, after you have received your receipt, to request an inspection.

Avenue R and 165th Street East, Palmdale, CA 3075-007-001 05/04/06
Service/ Job Location Address Zip Assessor Map Book Page Parcel # Date

Boething Treeland Farms, 36151 N 82nd Street East, Littlerock CA 93543
Owner / Applicant Name Address/Zip Phone No.

Rottman Drilling Co., 46471 N Division, Lancaster, CA 93535
Contractor's Name Address/Zip Phone No.

Co. Engineer Plan Check No. _____ Tract no. _____ Lot No. _____ No. Bedrooms _____ Fixture Unit Count _____
 (Complete the line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE	DEPARTMENT STAMP

WELL LOCATION (ADDRESS)	CITY	ZIP CODE
165th Street East and Avenue R, Palmdale, 93550		
Anticipated Start Date: 05/04/06	Anticipated End Date: 07/04/06	
Additional Contact Persons In Case of Emergency Larry W Rottman		Telephone 661-942-6125

<p style="text-align: center; margin: 0;">GENERAL LOCATION SKETCH</p> <p style="margin: 0;">Provide the specific information on WELL CONSTRUCTION LOCATION DETAIL sheet.</p> <div style="text-align: center; margin: 10px 0;"> </div>	<p style="text-align: center; margin: 0;">WELL DECOMMISSIONING DIAGRAM</p> <div style="border: 1px solid black; height: 400px; margin: 10px 0;"></div>												
<p style="text-align: center; margin: 0;">WORK PLAN DETAILS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>12"x 720' Test hole</td></tr> <tr><td>26"x 720' Final Bore hole</td></tr> <tr><td>320'x 16" Solid Casing</td></tr> <tr><td>400'x 16" Millslot Perforated casing</td></tr> <tr><td>720'x 50' Gavel pack</td></tr> <tr><td>50' Sanitary Seal</td></tr> <tr><td>8'x 8'x 12" Foundation at well head with</td></tr> <tr><td>3" gravel feed pipe & 2" sounding-chlorination</td></tr> <tr><td>tube.</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		12"x 720' Test hole	26"x 720' Final Bore hole	320'x 16" Solid Casing	400'x 16" Millslot Perforated casing	720'x 50' Gavel pack	50' Sanitary Seal	8'x 8'x 12" Foundation at well head with	3" gravel feed pipe & 2" sounding-chlorination	tube.			
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50' Sanitary Seal													
8'x 8'x 12" Foundation at well head with													
3" gravel feed pipe & 2" sounding-chlorination													
tube.													

NOTES / COMMENTS (Department Use Only)

WELL CONSTRUCTION LOCATION DETAILS

SITE ADDRESS or APN

CITY

ZIP CODE

165th Street East and Avenue R, Palmdale 93550

Township

6N

Range

9W

Section

28

Map Book Page/ Grid 3075-007-001

WELL LOCATION

Provide a scaled drawing (1" = 50') indicating property lines, sewers, private sewage disposal systems within 200 feet of the well site along with labels and dimensions. Attach all documents that confirm that the well is located the required distance from the septic systems.



NORTH

Palmdale Blvd

WELL SITE

1367'

65'

Avenue R

165th Street East

Assessor Map

View Enlarged Map
View Printing
Instructions

County of Los Angeles, Assessor

3075 7 1996

SCALE -- 400'

PALMDALE

160TH ST

30250

REH/SEC
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9-12-97
8-16-98
1-16-98
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Permit Number _____ Permit Date June 5, 2006

No. e041010

CWR: Use Only - Do Not Fill In									
State Well Number/Site Number									
Latitude					Longitude				
APN/TRS/Other									

Total Depth of Completed Well 720 Feet

- ☒ Water Supply
 - ☐ Domestic ☐ Public
 - ☒ Irrigation ☐ Industrial
- ☐ Cathodic Protection
- ☐ Dewatering
- ☐ Heat Exchange
- ☐ Injection
- ☐ Monitoring
- ☐ Remediation
- ☐ Sparging
- ☐ Test Well
- ☐ Vapor Extraction
- ☐ Other

Depth to first water 150 (Feet below surface)
 Depth to Static _____
 Water Level 150 (Feet) Date Measured 06/26/2006
 Estimated Yield * 2,500 (GPM) Test Type Constant Rate
 Test Length 4.0 (Hours) Total Drawdown 74 (Feet)
 *May not be representative of a well's long term yield. PL 234 5000

Depth from Surface Feet to Foot		Fill	Description
0	50	Cement	10-sack
50	744	Filler Pack	1/4 x 10 Gravel

Attach additional information, if it exists.

7/13/06 316589
Date Signed C-67 License Number

TOTAL P. 01

5:06p

P. 2

PERMIT APPLICATION - PRODUCTION WELLS		AMENDED	
WAGU / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION MURCHISON DRIVE, BALDWIN PARK, CA 91706 (626) 430-5300 FAX (626) 413-3016			
DATE: June 1, 2006			
WELL CONSTRUCTION: CONSTRUCTION OR RENOVATION DECOMMISSIONING OTHER:		<input type="checkbox"/> PRIVATE DOMESTIC <input type="checkbox"/> IRRIGATION <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> CHLORINE PACK <input type="checkbox"/> PUBLIC DOMESTIC <input type="checkbox"/> Small System <input type="checkbox"/> Large System <input type="checkbox"/> Other:	
SITE ADDRESS: East 160th & Avenue R, Lake Los Angeles, CA 93591 CITY: ZIP CODE:			
Township: 6N		Range: 9W	Section: 29
Map Book Page/Quad: 3075-016-031			
GPS LOCATION: (To be completed after the final test)			
WELL STRUCTURE Type and Size of Production Casing Sanitary / Annular Sealing Material Depth of Sanitary / Annular Seal Cased Hole Casing Seal		Company: <i>called Kenneth</i> Contact Person: <i>message re:</i> Address: <i>APN #</i> City, State Zip: <i>06/08/2006</i> Telephone:	
WELL DRILLER INFORMATION Well Owner: Boething Treeland Farms, Inc. Address: 23475 Long Valley Road City / Zip Code: Woodland Hills, CA 91367 Telephone: 805-529-1253 Well Driller: ROTTMAN DRILLING CO. Address: 46471 N. Division Street City / Zip Code: Lancaster, CA 93535 C-37 License No.: 316599 Telephone: 661-942-6125		IF WELL AND GEOLOGIC EXPOSURE FOUND TO DIFFER FROM THE WORK PLAN MODIFICATIONS MAY BE REQUIRED. 9:20 am 5075-007-001	
WELL DECOMMISSIONING Well Depth (log / records) Method of Well Abandonment Depth and Number of Perforations Type of Perforations Type and Amount of Sealing Method of Upper Seal Pressure Application		DISPOSAL OF PERMIT (Department Use Only) THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED. A FINAL INSPECTION CONDUCTED BY THIS DEPARTMENT, AND THE RECEIPT OF A WELL COMPLETION LOG, NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT. WORK PLAN APPROVAL This Approval is Valid for 90 Days Date: 6-5-06 Initials: <i>[Signature]</i> Conditions: <i>This site is approved from Original Permit, with E and B-12 as Addendum and Paid on 6-2-06. Use of Permit Prior to Sealing this site.</i> <i>FAVED TO 949-1510.</i> THE PLACEMENT OF THE ANNULAR SEAL MUST BE WITNESSED BY THIS DEPARTMENT. CONTACT THIS OFFICE AND ARRANGE FOR AN APPOINTMENT. FINAL INSPECTION Annular seal or final decommissioning seal witnessed Date: Initials: <i>[Signature]</i> PERMIT ISSUED The well log must be submitted to this Department prior to issuance of the final approval. Date: Initials: <i>[Signature]</i> THE COMPLETED WELL MUST BE PROPERLY PROTECTED AND MARKED BACTERIOLOGICALLY. WATER QUALITY The water from the well must meet the Department's standards prior to domestic use. Date: Initials:	
I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving data drilled, depth of the well, perforations to the casing, and any other data deemed necessary by County Environmental Health Division. <i>Mark W. Rottman</i> Applicant Name (PRINT): Matthew W. Rottman - Treasurer Telephone: 661-942-6125			

ROTTMAN DRILLING CO.

46471 N. Division St
Lancaster, CA 93535-5906
(661) 942-6125
(661) 949-1510
rdrilling@msn.com

To: Kenneth Mattison Los Angeles Health Services	From: Linda Sherwood Office Manager
Fax: (661) 948-9354	Pages: 4
Phone: (661) 723-4550	Date: June 5, 2006
Re: Boething Treeland Farms	cc:

Comments:

Kenneth, attached is the amended permit for the irrigation well at 160th East and Avenue "R". Originally, the well was going to be located at East 164th & Avenue Q-12.

Thank you for your assistance.

Linda

facsimile

WELL PERMIT APPLICATION - PRODUCTION WELLS

AMENDED

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430 - 5380 FAX (626) 813 - 3016

DATE: June 1, 2006

<input checked="" type="checkbox"/> NEW WELL CONSTRUCTION	<input type="checkbox"/> PRIVATE DOMESTIC	<input type="checkbox"/> PUBLIC DOMESTIC
<input type="checkbox"/> RECONSTRUCTION OR RENOVATION	<input checked="" type="checkbox"/> IRRIGATION	<input type="checkbox"/> Small System
<input type="checkbox"/> DECOMMISSIONING	<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> Large System
<input type="checkbox"/> OTHER:	<input type="checkbox"/> GRAVEL PACK	<input type="checkbox"/> Other:

WELL LOCATION	SITE ADDRESS		CITY		ZIP CODE
	East 160th & Avenue R, Lake Los Angeles, CA 93591				
	Township 6N	Range 9W	Section 29	Map Book Page/ Grid 3075-016-031	
	GPS LOCATION : (To be completed after the final seal)				

WELL STRUCTURE	Type and Size of Production Casing	
	Sanitary / Annular Sealing Material	
	Depth of Sanitary / Annular Seal	
	Conductor Casing Seal	

Company		CONSULTANT
Contact Person		
Address		
City, State Zip		
Telephone		

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

OWNER / DRILLER INFORMATION	Well Owner	Boething Treeland Farms, Inc.
	Address	23475 Long Valley Road
	City / Zip Code	Woodland Hills, CA 91367
	Telephone	805-529-1253
	Well Driller	ROTTMAN DRILLING CO.
	Address	46471 N. Division Street
	City / Zip Code	Lancaster, CA 93535
	C-57 License No.	316599
Telephone	661-942-6125	

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED, A FINAL INSPECTION CONDUCTED BY THIS DEPARTMENT, AND THE RECEIPT OF A WELL COMPLETION LOG. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date	REHS
Conditions	

THE PLACEMENT OF THE ANNULAR SEAL MUST BE WITNESSED BY THIS DEPARTMENT. CONTACT THIS OFFICE AND ARRANGE FOR AN APPOINTMENT.

FINAL INSPECTION
Annular seal or final decommissioning seal witnessed

Date	REHS
------	------

PERMIT ISSUED

The well log must be submitted to this Department prior to issuance of the final approval

Date	REHS
------	------

THE COMPLETED WELL MUST BE PROPERLY DISINFECTED AND MEET BACTERIOLOGICAL STANDARDS PRIOR TO USE

WATER QUALITY

The water from the well must meet bacteriological standards prior to domestic use

Date	REHS
------	------

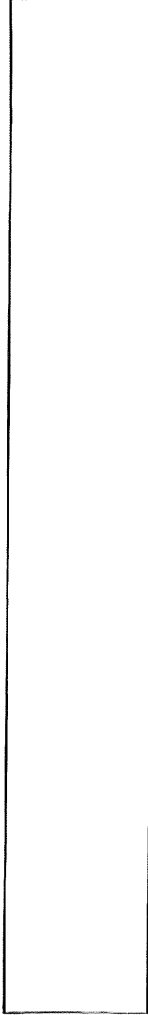
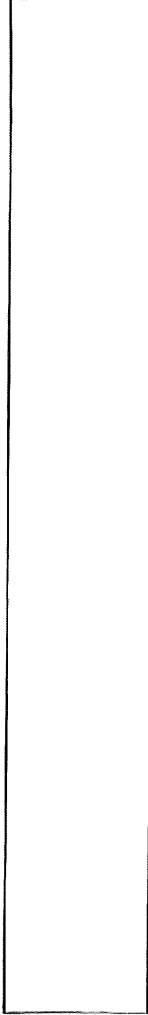
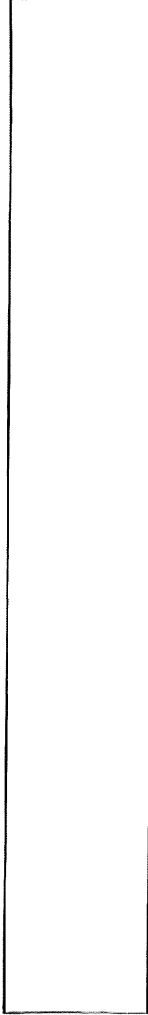
I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Matthew W. Rottman
Applicant's Signature

Applicant Name (PRINT) Matthew W. Rottman - Treasurer
Telephone 661-942-6125

AMENDED

WELL LOCATION (ADDRESS)	CITY	ZIP CODE
East 160th & Avenue "R", Lake Los Angeles, CA 93591		
Anticipated Start Date: June 5, 2006	Anticipated End Date: December 5, 2006	
Additional Contact Persons In Case of Emergency: Larry W. Rottman		Telephone: 661-942-6125

GENERAL LOCATION SKETCH	WELL DECOMMISSIONING DIAGRAM
Provide site specific information on WELL CONSTRUCTION LOCATION DETAIL sheet.	
WORK PLAN DETAILS	
12-inch test hole 720 feet deep	
26-inch diameter final bore hole	
320-feet of 16-inch by .312 Grade A53B Solid casing	
400-feet of 16-inch by .312 Grade A53B Mill Slot perforation	
Gravel pack with 1/4 x 10 Service Rock Filter Pack	
50-foot sanitary seal	
Preliminary development of 10 hours	
8-foot by 8-foot by 12-inch foundation at wellhead	
3-inch gravel feed pipe	
2-inch sounding/chlorination tube	

NOTES / COMMENTS (Department Use Only)

WELL CONSTRUCTION LOCATION DETAILS

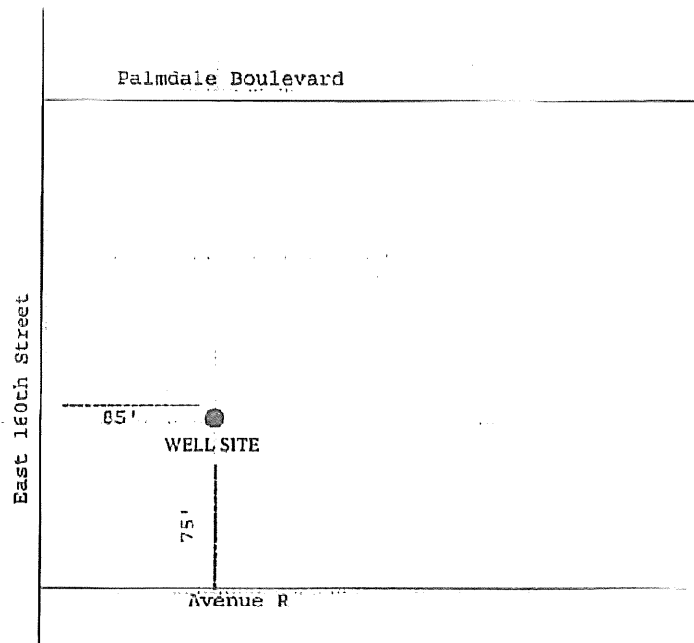
SITE ADDRESS or APN East 160th & Avenue "R", Lake Los Angeles, CA 93591		CITY LAKE LOS ANGELES	ZIP CODE 93591
Township 6N	Range 9W	Section 29 78	Map Book Page/ Grid 3075-016-031

WELL LOCATION

Provide a scaled drawing (1" = 50') indicating property lines, sewers, private sewage disposal systems within 200 feet of the well site along with labels and dimensions. Attach all documents that confirm that the well is located the required distance from the septic systems.

NORTH
↑

AMENDED



LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT AND PERMITS TRACKING SYSTEM

DATE: 06/02/06
TIME: 08:06:14
ROUTE TO: BS0800

DPR4051

PAGE 1

REQUESTED BY: XXXXXXXX

MISCELLANEOUS FEE RECEIPT

RECEIPT NUMBER: BS08000044298

THIS IS A RECEIPT FOR THE AMOUNT OF FEES COLLECTED AS LISTED BELOW. THE RECEIPT NUMBER, DATE AND AMOUNT VALIDATED HEREON HAS ALSO BEEN VALIDATED ON YOUR APPLICATION OR OTHER DOCUMENT AND HAS BECOME A PART OF THE RECORD OF THE COUNTY OF LOS ANGELES, FROM WHICH THIS RECEIPT MAY BE IDENTIFIED. PLEASE RETAIN THIS RECEIPT AS PROOF OF PAYMENT. ANY REQUEST FOR REFUND MUST REFERENCE THIS RECEIPT NUMBER.

PAYMENT ACCEPTED FOR: 3075-007-006

DATE	PAYMENT RECEIVED: 06/02/05 08:06:12
	PAYOR NAME: ROTTMAN DRILLING CO.
	ADDRESS: 46471 N. DIVISION LANCASTER, CA. 93535
	PHONE: (661) 942-6125

FEE ITEM	FEE DESCRIPTION	STATISTICAL CODE	CALCULATION FACTOR	UNIT OF MEASURE	EXTENDED AMOUNT
8Q	WELL, CONST/RENOV/DES	A018324	1.00	WELLS	\$302.00

TOTAL FEES PAID: \$302.00

PAYMENT TYPE	REFERENCE	AMT TENDERED	CHANGE GIVEN	AMOUNT APPLIED
CHECK	62961	\$302.00	\$0.00	\$302.00

OFFICE: BS 0800 DRAWER: TL
CASHIER: NK

ITEMS WITH AN ASTERISK (*) WILL REQUIRE FURTHER DEPOSITS
WHENEVER ACTUAL COSTS EXCEED THE DEPOSIT AMOUNT

***** END OF REPORT *****

Homer, Andrew W.

From: Chad Taylor <CTaylor@toddgroundwater.com>
Sent: Tuesday, March 5, 2019 7:11 PM
To: roadrunnerpump@roadrunner.com
Cc: pinetreeman63@yahoo.com; Homer, Andrew W.; Phyllis Stanin
Subject: RE: Completed Meter Installation Documentation

Lisa and Archie,

As Lisa and I discussed on the phone today, the documentation for the two Long Valley Road, LP meters is now complete.

In the future, please be sure to include dimensions (length and diameter) for all piping from the wellhead to approximately 5 pipe diameters downstream of the meter on the as-build drawing or annotated photograph for each meter documentation.

Thank you,

Chad

Chad Taylor, PG, CHG
 Senior Hydrogeologist



2490 Mariner Square Loop, Suite 215
 Alameda, CA 94501
 510.747.6920 x112
ctaylor@toddgroundwater.com
www.toddgroundwater.com

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From: Chad Taylor
Sent: Friday, March 1, 2019 09:20
To: 'roadrunnerpump@roadrunner.com' <roadrunnerpump@roadrunner.com>
Cc: pinetreeman63@yahoo.com; 'Andrew W. Homer' <ahomer@kelleydrye.com>; Stanin, Phyllis (pstanin@toddgroundwater.com) <pstanin@toddgroundwater.com>
Subject: RE: Completed Meter Installation Documentation

Hello Lisa and Archie,

Thank you for sending in this information, it satisfies most of the outstanding requirements.

However, the as-build drawing you sent is a site plan, not a diagram of the well discharge system as required. Please refer to page 2 of the form where the instructions indicate that the following should be attached:

As built drawings (computer generated or hand drawn) showing relative locations of wellhead, meter, and all flow restrictions (e.g., valves, elbows, reducers, etc.) and dimensions (lengths and diameters) of all pipes, fittings, valves, and meters.

What we are looking for is a drawing of the piping coming from the wellhead to and beyond the meter that shows the dimensions (length and diameter) of the pipes and fittings. This drawing should be similar to the photographs you submitted showing the piping system from the side, and you may even simply write the dimensions on those photographs or provide simple hand drawings.

Please let me know if you have any questions regarding this information.

Thank you,

Chad

Chad Taylor, PG, CHG
Senior Hydrogeologist



2490 Mariner Square Loop, Suite 215
Alameda, CA 94501
510.747.6920 x112
ctaylor@toddgroundwater.com
www.toddgroundwater.com

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From: roadrunnerpump@roadrunner.com <roadrunnerpump@roadrunner.com>
Sent: Thursday, February 28, 2019 10:44
To: Chad Taylor <CTaylor@toddgroundwater.com>
Cc: pinetreeman63@yahoo.com; 'Andrew W. Homer' <ahomer@kelleydrye.com>
Subject: RE: Completed Meter Installation Documentation

Hi Chad,

Please see the attached information as requested.

Thank you,
Lisa

Lisa Cook
Roadrunner Pump Service
PO Box 1052
Pearblossom, CA 93553
661-944-5073
roadrunnerpump@roadrunner.com

From: Chad Taylor <CTaylor@toddgroundwater.com>
Sent: Tuesday, February 26, 2019 2:42 PM
To: roadrunnerpump@roadrunner.com
Cc: pinetreeman63@yahoo.com; 'Andrew W. Homer' <ahomer@kelleydrye.com>
Subject: RE: Completed Meter Installation Documentation

Hello Lisa and Archie,

Thank you for submitting two meter documentation reports for Long Valley Road, LP.

Unfortunately, these reports are incomplete as submitted. Specifically, both reports are missing the following required items:

1. Documentation of the methods used in determining the capacity of the pumping system.
2. Technical specifications describing the meter type, size, range, and accuracy.
3. An as-built drawing showing relative locations of wellhead, meter, and all flow restrictions and dimensions of all pipes, fittings, valves, and meters.

Please see the various notes and instructions on the form for more information regarding these requirements.

Sincerely,

Chad

Chad Taylor, PG, CHG
Senior Hydrogeologist



2490 Mariner Square Loop, Suite 215
Alameda, CA 94501
510.747.6920 x112
ctaylor@toddgroundwater.com
www.toddgroundwater.com

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From: roadrunnerpump@roadrunner.com <roadrunnerpump@roadrunner.com>

Sent: Tuesday, February 26, 2019 11:20

To: Chad Taylor <CTaylor@toddgroundwater.com>

Cc: pinetreeman63@yahoo.com; 'Andrew W. Homer' <ahomer@kelleydrye.com>

Subject: Completed Meter Installation Documentation

Hi Chad,

Attached please find completed meter installation documentation for 2 meters installed at 16029 E. Avenue R, Llano, CA.

I am also sending hard copies to you in the mail.

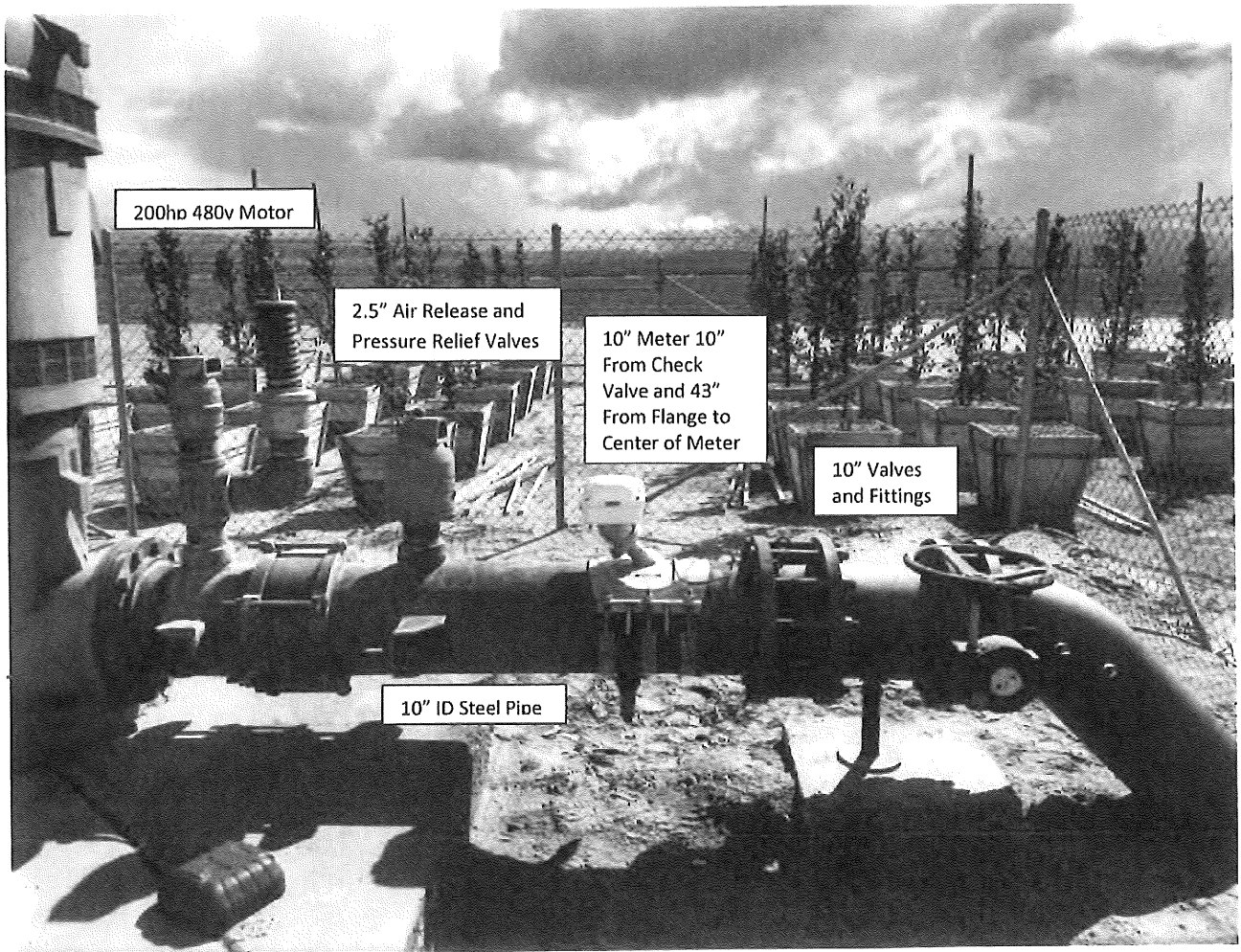
Please let me know if you have any questions.

Thank you!

Lisa

Lisa Cook
Roadrunner Pump Service
PO Box 1052
Pearblossom, CA 93553
661-944-5073
roadrunnerpump@roadrunner.com

Boething #1 As-built Drawing



Feb/28/2019 9:10:03 AM

Boething Treeland - TF8 805-529-6881

1/3

in 20 06 04:08p

Mitchell Lewis & Staver

951-443-1368

p. 2

2116

Mitchell Lewis & Staver Co
JORN DAUGBJERG**EAST #1**H2Optimize ver: 6.041
06/16/06**PUMP DATA SHEET**
FAIRBANKS MORSE, 60 Hz

Selection file: (untitled)

Catalog: FMTURB60.MPG v 1

Curve: 18-133

Design Point: Flow: 1500 US gpm
Head: 375 ft

Fluid: Water

Temperature: 80 °F

SG: 1

Viscosity: 1.122 cP

Vapor pressure: 0.2568 psi_aAtm pressure: 14.7 psi_aPump: VERT. TURBINE - 1800 Size: 13E (8 stages)
Speed: 1770 rpm Dia: 9.875 inLimits: Temperature: 150 °F Sphere size: 1 in
Pressure: 400 psi_g Power: 344 bhp

NPSHr: --- ft

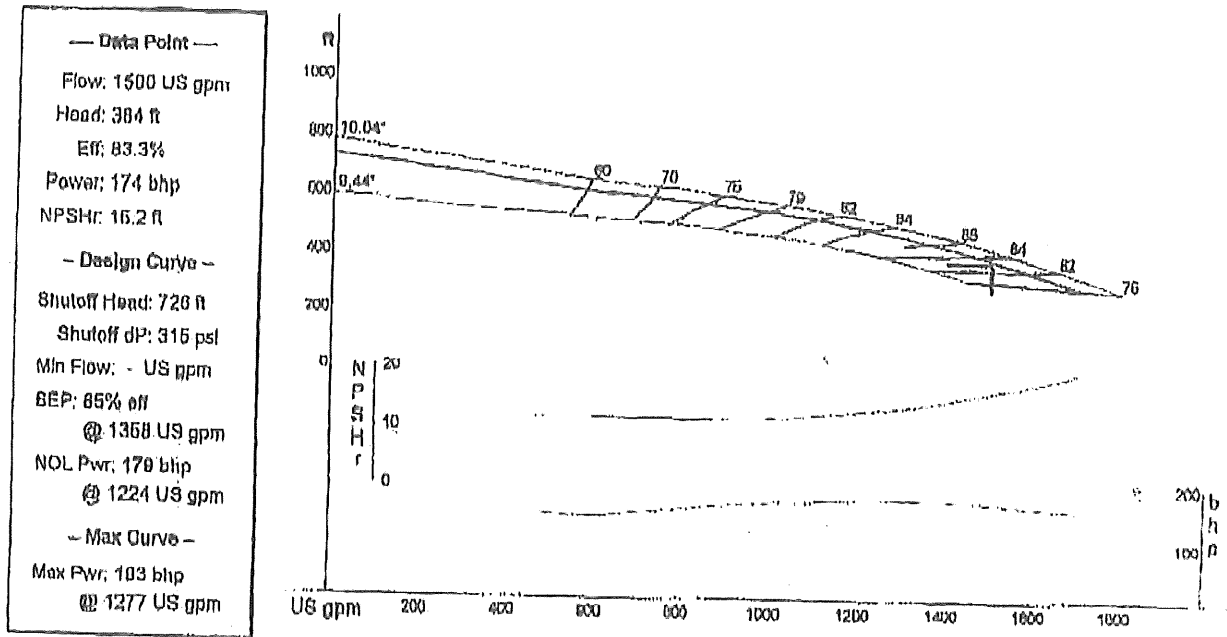
Specific Speed: Ns: --- Nss: ---

Piping:

System: ---

Suction: --- in

Discharge: --- in

Vertical Turbine: Bowl Size: 12.5 in Max Lateral: 0.64 in
Thrust K Factor: 13.5Motor: 200 hp Speed: 1800 Frame: 447T
NEMA Standard TEFC Enclosure
sized for Max Power on Design Curve

— PERFORMANCE EVALUATION —

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Motor kW	Hrs/yr	Cost /kWh
1800	Flow Rate is Out of Range for this Pump								
1500	1770	384	83.3	174	16.2				
1200	1770	494	83.8	179	12.9				
900	1770	588	76.3	108	11.5				
600	1770	611	61.5	150	11.5				

Calibration Report

Serial Number: AG19-0155Test Number: AG19-0155 E. WellConverter Serial Number: McMag3000Model: G310-6Calibration Date: 2/5/2019Report Date: 2/5/2019Sold To: NATIONAL WATER WELL SUPPLYDescription: MC MAG 3000, 10"

Notes: _____

Customer I.D.: 10.02 in
255 mmKA: 1.8012
KZ: 619

Any difference between the customer specified application dimension and test pipe dimension is accounted for by the flow converter.
The reported velocities shown on this report indicate actual meter performance and are independent of the inside diameter used in the calibration.

Calibration Report

	Velocity (m/s)		PIBF Accuracy
	min	max	(as % of reading)
1	0.35	0.65	99.44
2	0.65	0.95	98.70
3	0.95	1.26	98.57
4	1.26	1.56	98.64
5	1.56	1.86	98.81
6	1.86	2.16	99.02
7	2.16	2.47	99.27
8	2.47	2.77	99.55
9	2.77	3.07	99.83
10	3.07	3.38	100.13

KL Values

KL00:	000000000
KL01:	084100086
KL02:	133060136
KL03:	187507187
KL04:	235440238
KL05:	330000330
KL06:	000000000
KL07:	000000000
KL08:	000000000
KL09:	000000000
KL10:	000000000
KL11:	000000000

Approved By: Vince H. MortonVince H. Morton
ID#: 117110Test Fluid: WaterInstrumentation Traceability Kit Number: V0143Standard Used: Secondary

Test Data

	Water Temperature (°C)	Test Time (seconds)	Air Temperature (°C)	Barometric Pressure (kPa)	Relative Humidity (%)	Viscosity (cP)	Average Radial Flow (m/sec)	Test Pipe Inside Diameter (mm)
1	12.9	32.435	16.5	95.78	50	1	0.17459	10.120
2	12.9	40.240	16.5	95.78	50	1	0.13467	10.120
3	12.9	32.524	16.5	95.78	50	1	0.09647	10.120
4	12.9	40.294	16.5	95.78	50	1	0.05837	10.120
5	12.9	40.243	16.5	95.78	50	1	0.01801	10.120

This calibration was performed using standards traceable to the National Institute of Standards and Technology (NIST), USA. Certificates of traceability for the individual test measurements listed in this report are documented and serialized by the Test Stand Instrumentation Traceability Kit Number identified above and are available upon request. Combined Uncertainty to a 95% confidence level is developed for each test point according to the methods described in the ANSI/NCSL Z540-2-1997. Methods and procedures used in this calibration are in accordance with the McCrometer Flow Laboratory Technical Manual, revision 2.0.

Page 1 of 1

McCrometer, Inc. • 3255 West Stetson Avenue, Hemet, CA 92545, USA
Tel (951) 652-6811 • Fax (951) 652-3078 • Website: www.mccrometer.com
Hours: 8am - 4:30pm PST, Monday - Friday



Serial Number: AG19-0155

Mc Mag^{3000™}

FLOW RATE CHART BATTERY POWERED ELECTROMAGNETIC FLOW METER

The Mc Mag³⁰⁰⁰ uses Faraday's Law of Electromagnetic Induction to measure water velocity. Faraday's Law states: "a conductor, moving through a magnetic field, produces a voltage".

The magnitude of the voltage is directly proportional to the velocity at which the fluid moves through the magnetic field. Electromagnetic coils inside the Mc Mag³⁰⁰⁰ sensor produce magnetic fields, and electrodes on the sensor's surface measure the voltage generated by the moving fluid. The determined velocity is then calculated with the pipe inside diameter to produce a volumetric flow rate (accuracy statement).

As flow rates are very important to all electromagnetic flow meters, it is important to understand how minimum and maximum flow rates per line size affects the accuracy of the meter.

Below are the minimum and maximum flow rates for the Mc Mag³⁰⁰⁰ and the respective accuracies.

FLOW MEASUREMENT:

Method: Electromagnetic

Accuracy: $\pm 2\%$ of reading with default calibration; $\pm 1\%$ with custom Factory calibration

Flow rate: Specification accuracy: 1 f/s to 15 f/s (0.3 m/s to 4.57 m/s);

Maximum Converter Flow Rate: 33 f/s (10 m/s)

Reverse Flow: Reverse flow indication only

See chart below for flow rates per pipe size:

Nominal Pipe Size (Inches)	Min. Flow	Max. Flow
	Flow Rate: GPM	Flow Rate: GPM
4	40	600
6	90	1350
8	150	2350
10	240	3700
12	350	5300

For higher or lower flow rates than listed above, please consult factory.



McCROMETER

www.mccrometer.com

3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92343 USA

TEL: 951-652-6811 • 800-220-2279 • FAX: 951-652-3078 Printed In The U.S.A., Lit. # 30121-65 Rev. 1.2/04-15

Copyright © 2004-2015 McCrometer, Inc. All printed material should not be changed or altered without permission of McCrometer. Any published technical data and instructions are subject to change without notice. Contact your McCrometer representative for current technical data and instructions. U.S. Patent 8,997,580 B2, foreign patents pending.

INSTALLATION

3.4 Straight Pipe Requirements

Flow meters are velocity sensing devices and are vulnerable to certain upstream disturbances. Because of this, meters need certain lengths of straight pipe before and after the meter. These distances relate to the diameter of the pipe used. Obstructions can include elbows, valves, pumps, and changes in pipe diameter. The uneven flow created by these obstructions can vary with each system.

Both upstream and downstream distances are measured from the center of the saddle as shown below. In a typical installation to achieve $\pm 2\%$ accuracy the Mc Mag³⁰⁰⁰ flow meter should be installed a minimum of three diameters upstream from most flow disturbers and one diameter downstream of the meter. Accuracy of $\pm 1\%$ is available in many applications with a Factory consultation prior to ordering.

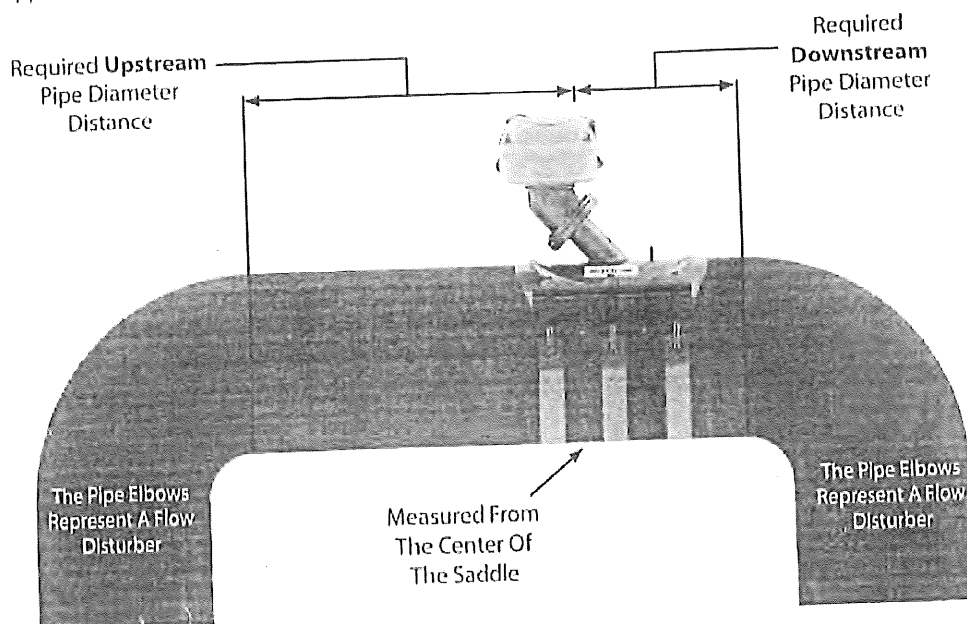
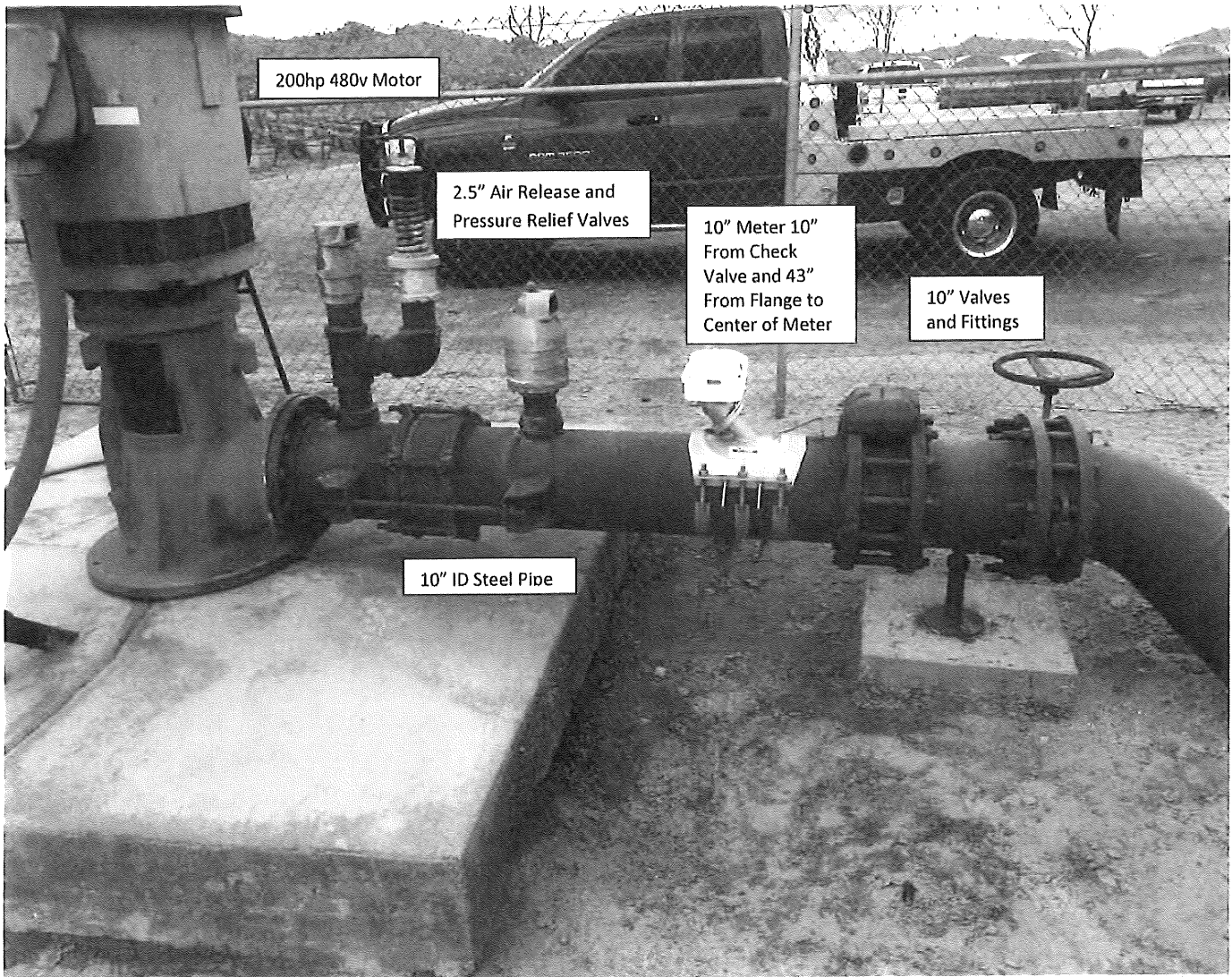


Figure 2. How To Measure Straight Pipe Requirements

Boething #3 As-built Drawing



Feb/28/2019 9:10:03 AM

Boething Treeland - TF8 805-529-6881

2/3

Kutchell, Wis & Stayer Co
JORN DAUGBJERG
Rottman Drilling/Boething Treeland

WEST #3
PUMP DATA SHEET
FAIRBANKS MORSE, 60 Hz

H2Optimize ver: 0.041
03/27/06

Selection file: (untitled)

Catalog: FMTURB60.MPC v.1

Curve: 18-128

Design Point: Flow: 1500 US gpm
Head: 405 ft

Fluid: Water

Temperature: 60 °F

SG: 1

Viscosity: 1.122 cP

Vapor pressure: 0.2566 psi_aAtm pressure: 14.7 psi_a

Pump: VERT. TURBINE - 1800 Size: 12K (8 stages)
Speed: 1760 rpm Dia: 9.9375 in

Limits: Temperature: 160 °F Sphere size: 1.12 in
Pressure: 410 psi_g Power: 344 bhp

NPSH_a: — ft

Specific Speed: Ns: — Nss: —

Piping:

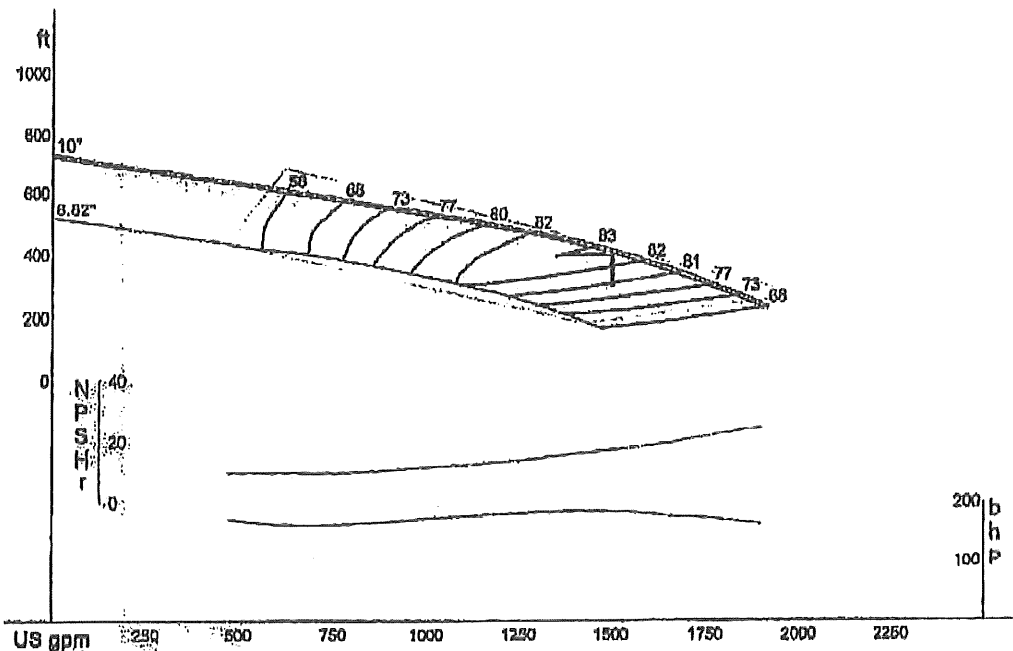
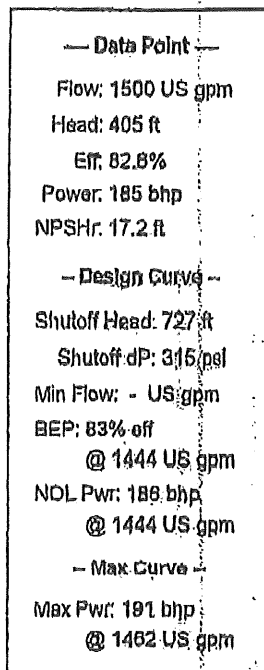
System: —

Suction: — in

Discharge: — in

Vertical Turbine: Bowl Size: 11.75 in Max Lateral: 0.5 in
Thrust K Factor: 8.5

Motor: 200 hp Speed: 1800 Frame: 447T
NEMA Standard TEFC Enclosure
sized for Max Power on Design Curve



— PERFORMANCE EVALUATION —

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSH _r ft	Motor %eff	Motor kW	Hrs/yr	Cost /kWh
1800	1760	282	74.4	172	22.6				
1500	1760	405	82.6	185	17.2				
1200	1760	484	88.7	182	13.5				
900	1760	547	73.2	170	11				
600	1760	609	55.7	166	10				

Calibration Report



Serial Number: AG19-0156

Test Number: AG19-0156

W. Well

Converter Serial Number: McMag3000

Model: G310-6

Calibration Date: 2/5/2019

Report Date: 2/5/2019

Sold To: NATIONAL WATER WELL SUPPLY

Description: MC MAG 3000, 10"

Notes:

Customer I.D.: 10.02 in
255 mm

KA: 1.8195

KZ: 1978

Any difference between the customer specified application dimension and test pipe dimension is accounted for by the flow converter.
The reported velocities shown on this report indicate actual meter performance and are independent of the inside diameter used in the calibration.

Calibration Report

	Velocity (m/s)		PIBF Accuracy (as % of reading)
	min	max	
1	0.34	0.64	100.32
2	0.64	0.95	99.30
3	0.95	1.26	99.00
4	1.26	1.56	98.94
5	1.56	1.87	98.97
6	1.87	2.17	99.07
7	2.17	2.48	99.20
8	2.48	2.79	99.35
9	2.79	3.09	99.51
10	3.09	3.40	99.69

KL Values

KL00:	000000000
KL01:	000000000
KL02:	000000000
KL03:	000000000
KL04:	000000000
KL05:	000000000
KL06:	000000000
KL07:	000000000
KL08:	000000000
KL09:	000000000
KL10:	000000000
KL11:	000000000

Approved By:

Vince H. Morton
ID#: 117110

Test Fluid: Water

Instrumentation Traceability Kit Number: V0143

Standard Used: Secondary

Test Data

	Water Temperature (°C)	Test Time (seconds)	Air Temperature (°C)	Barometric Pressure (kPa)	Relative Humidity (%)	Viscosity (cP)	Average Rate of Flow (m3/sec)	Test Pipe Inside Diameter (in)
1	12.9	43.819	16.5	95.78	50	1	0.17592	10.120
2	12.9	40.275	16.5	95.78	50	1	0.13522	10.120
3	12.9	40.372	16.5	95.78	50	1	0.09714	10.120
4	12.9	40.211	16.5	95.78	50	1	0.05842	10.120
5	12.9	40.308	16.5	95.78	50	1	0.01773	10.120

This calibration was performed using standards traceable to the National Institute of Standards and Technology (NIST), USA. Certificates of traceability for the individual test measurements listed in this report are documented and serialized by the Test Stand Instrumentation Traceability Kit Number identified above and are available upon request. Combined Uncertainty to a 95% confidence level is developed for each test point according to the methods described in the ANSI/NCSS 2540-2-1997. Methods and procedures used in this calibration are in accordance with the McCrometer Flow Laboratory Technical Manual, revision 2.0.

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Hours: 8am - 4:30pm PST, Monday - Friday

Serial Number: AG19-0156





FLOW RATE CHART BATTERY POWERED ELECTROMAGNETIC FLOW METER

The Mc Mag³⁰⁰⁰ uses Faraday's Law of Electromagnetic Induction to measure water velocity. Faraday's Law states: "a conductor, moving through a magnetic field, produces a voltage".

The magnitude of the voltage is directly proportional to the velocity at which the fluid moves through the magnetic field. Electromagnetic coils inside the Mc Mag³⁰⁰⁰ sensor produce magnetic fields, and electrodes on the sensor's surface measure the voltage generated by the moving fluid. The determined velocity is then calculated with the pipe inside diameter to produce a volumetric flow rate (accuracy statement).

As flow rates are very important to all electromagnetic flow meters, it is important to understand how minimum and maximum flow rates per line size affects the accuracy of the meter.

Below are the minimum and maximum flow rates for the Mc Mag³⁰⁰⁰ and the respective accuracies.

FLOW MEASUREMENT:

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Accuracy: $\pm 2\%$ of reading with default calibration; $\pm 1\%$ with custom Factory calibration

Flow rate: Specification accuracy: 1 f/s to 15 f/s (0.3 m/s to 4.57 m/s);

Maximum Converter Flow Rate: 33 f/s (10 m/s)

Reverse Flow: Reverse flow indication only

See chart below for flow rates per pipe size:

Nominal Pipe Size (Inches)	Min. Flow	Max. Flow
	Flow Rate: GPM	Flow Rate: GPM
4	40	600
6	90	1350
8	150	2350
10	240	3700
12	350	5300

For higher or lower flow rates than listed above, please consult factory.



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for current technical data and instructions. U.S. Patent 8,997,580 B2; foreign patents pending.

INSTALLATION

3.4 Straight Pipe Requirements

Flow meters are velocity sensing devices and are vulnerable to certain upstream disturbances. Because of this, meters need certain lengths of straight pipe before and after the meter. These distances relate to the diameter of the pipe used. Obstructions can include elbows, valves, pumps, and changes in pipe diameter. The uneven flow created by these obstructions can vary with each system.

Both upstream and downstream distances are measured from the center of the saddle as shown below. In a typical installation to achieve $\pm 2\%$ accuracy the Mc Mag³⁰⁰⁰ flow meter should be installed a minimum of three diameters upstream from most flow disturbers and one diameter downstream of the meter. Accuracy of $\pm 1\%$ is available in many applications with a Factory consultation prior to ordering.

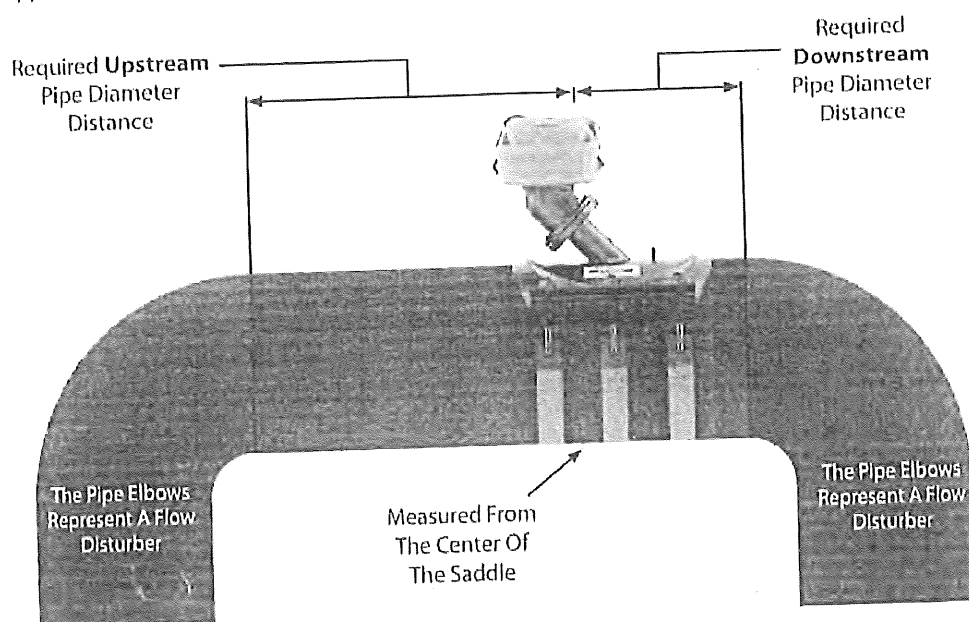


Figure 2. How To Measure Straight Pipe Requirements

FLOWMETER INSTALLATION DOCUMENTATION

**ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586**

Section 1: Producer and Well Information

Producer No.: One Producer Name: Long Valley Road, LP

Well Location Address: 16029 E, Avenue R, Llano, CA 93544

Well Location APN: 3075-007-001 Produced Water Application APN(s): 3075-007-001

Owner's Well No.: 1 State Well No.: 2006-010124 Watermaster Well ID: Unknown

Section 2: Pump Capacity Documentation

Pump Capacity or Range (gallons per minute): 1500

Pump System Installation Date: 2006 Pump System Installer: Rottman Drilling and Pump

Method used to Determine Pump Capacity: Water Meter

Attach documentation of method used to determine pump capacity.

VFD or Soft start Equipment Present (Yes/No): VFD-Operating Range Unknown

Attach documentation of VFD or soft start equipment and settings demonstrating production range.

Section 3: Flowmeter Documentation

New or Replacement: Replacement Meter Serial No./ID of Replaced Meter: 20063524-10

Flowmeter Type: Electromagnetic Flowmeter Manufacturer: McCrometer

Flowmeter Model Name/No.: McMag3000, G310-6 Flowmeter Size (diameter, inches): 10"

Flowmeter Rated Range (gpm): 240-3700 Flowmeter Accuracy (percent ±): +/-2%

Method of Stating Accuracy: Percent of Reading Flowmeter Serial No.: AG19-0155
(percent of reading or percent of full scale)

Volumetric Units of Totalizer: Gallons Starting Totalizer Reading (prior to installation): 0

Date Manufactured: 2/2019 Purchase Date: 2/2019 Most Recent Calibration Date: New Installation

Attach documentation of flowmeter from manufacturer, including:

- 1) Technical specifications describing meter type, size, range, and accuracy.
- 2) Manufacturer meter installation recommendations or requirements, including specifications for flow conditions leading to and from the meter.
- 3) Documentation of most recent calibration.
- 4) Documentation of manufacturing date.

FLOWMETER INSTALLATION DOCUMENTATION

**ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586**

Section 4: Installation Documentation

Description of flowmeter installation conditions: Submersible pump and wellhead are plumbed in 10"
galvanized pipe. 30" before water enters the water meter, and 10" after the meter.

(Brief narrative description of all plumbing between wellhead and flowmeter and downstream of flowmeter at least five pipe diameters. Include dimensions of all pipe diameters and lengths of pipe and identify any changes in pipe diameter and all fittings between wellhead and flowmeter and downstream at least five pipe diameters. Also include description of tie-in to distribution system or discharge documenting pipe-full conditions at flowmeter.)

Totalizer Reading Following Installation: 0

Meters shall be installed to meet both manufacturers recommendations and the industry standard.

The industry standard minimum is straight pipe upstream of the meter that is 10 pipe diameters in length and straight pipe downstream of the meter that is 5 pipe diameters in length.
The straight pipe shall have no valves, angled or reducing/enlarging fittings, or other obstructions.

If the manufacturers recommendations for installation are less stringent than this industry standard, the party and the approved installer shall request a variance from the Watermaster Engineer prior to installation of any such meter.

Attach the following documentation of flowmeter installation:

- 1) As built drawings (computer generated or hand drawn) showing relative locations of wellhead, meter, and all flow restrictions (e.g., valves, elbows, reducers, etc.) and dimensions (lengths and diameters) of all pipes, fittings, valves, and meters.
- 2) At least one photograph showing the installed meter and associated piping from the wellhead.
- 3) At least one readable photograph showing the installed meter totalizer face showing the totalizer reading following installation.

Installed by: Roadrunner Pump

Witnessed by: Archie Floyd

Date: 2/20/2019

Meter Installer Signature and Date: 

Meter Installation notes:

One copy to Watermaster Engineer, one copy to Producer, one copy retained by Installer.

FLOWMETER INSTALLATION DOCUMENTATION

ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586

Section 5: Instructions

All meter installation and documentation must be completed by a Pre-Approved Meter Installer in accordance with the metering guidelines in the Rules and Regulations for the adjudicated Antelope Valley Area. Contact the Watermaster or Watermaster Engineer for a list of Pre-Approved Meter Installer.

Producer Number and Name must be consistent with Watermaster designations. This information can be confirmed by contacting Watermaster Engineer prior to filing this form.

State Well Number and Watermaster Well ID must be consistent with Watermaster designations. This information can be confirmed by contacting Watermaster Engineer prior to filing this form.

Pump capacity or range shall be based on industry standard methods, including:

- 1) Measurement of discharge rate under normal operational conditions. Discharge rate measurement shall be made with industry standard tools such as a calibrated meter temporarily placed in the system, accuracy testing meters measuring flow through test tap ports, or open channel measurement devices placed at the discharge end of the system.
- 2) Estimation of approximate rate based on pump curve evaluation. This assessment shall include evaluation of pump curve for the exact make and model of the pump and motor in the well operating under the total dynamic head on the pumping system.
- 3) Other methods discussed with and approved by the Watermaster Engineer prior to selection and installation of flowmeters.

All pump capacities must be documented in attachments to this form. Documentation of pump capacity or range shall include the following:

- 1) The method used to estimate pump system discharge rate or range.
- 2) If measured directly, document the methods used for measurement, including the type of measuring device, the accuracy of that device, the most recent calibration of the device, location of the measuring device in the pumping/distribution system, number of measurements collected, and discharge rate from each measurement. For pumping systems with a range of potential production rates, the measurements should cover the entire range and the documentation should include information about the VFD or soft start system that controls discharge rates.
- 3) If estimated based on pump curve evaluation, provide pump curve and show calculation of total dynamic head. For pumping systems with a range of potential production rates, provide documentation of the VFD, soft start, or other discharge rate controller.
- 4) If an alternate pumping system capacity estimation method approved by the Watermaster Engineer has been used, provide the documentation required by that approval.

Documentation for all pump capacities reported as a range must include details of the VFD, soft start, or other discharge rate controlling device used to govern discharge rate. This shall include make, model, and specifications of each controlling device and information regarding the specific settings applied to the pumping system with sufficient detail to demonstrate the range of reported production capacities.

The Watermaster Engineer may consider a variance to the standard installation requirements if it can be demonstrated that accurate readings will be achieved with less stringent installation conditions as specified by the meter manufacturer or with the installation of flow straighteners or conditioners.

To apply for a variance to use a flow straightener, flow conditioner, or manufacturers recommendations that are less stringent than the industry standard, the party or the approved installer must submit a request to the Watermaster Engineer.

Requests for variances to allow flow conditioners, flow straighteners, or less stringent installation standards shall be made in writing and shall include details regarding the reason the variance is required, the manufacturer of the proposed meter and/or flow conditioner/straightener, and the proposed installation specifics.

The Watermaster Engineer will review and evaluate such requests for variances and no flow conditioners, flow straighteners, or less stringent installation standards shall be employed without written approval from the Watermaster Engineer.

One electronic copy (scanned pdf or Excel file) of the completed Flowmeter Installation Documentation form along with electronic versions of all required attachments shall be emailed to the Watermaster Engineer at the address indicated below:

staylor@toddgroundwater.com

roadrunnerpump@roadrunner.com

From: Chad Taylor <CTaylor@toddgroundwater.com>
Sent: Thursday, January 24, 2019 9:17 AM
To: roadrunnerpump@roadrunner.com
Subject: RE: Request for Variance

Archie,

This variance is approved.

Please send the meter documentation report once installation is complete.

Thank you,

Chad

Chad Taylor, PG, CHG
 Senior Hydrogeologist



2490 Mariner Square Loop, Suite 215
 Alameda, CA 94501
 510.747.6920 x112
ctaylor@toddgroundwater.com
www.toddgroundwater.com

BY RECEIVING THIS ELECTRONIC INFORMATION, including all attachments, the receiver agrees that this data may not be modified or transferred to any other party without the prior written consent of Todd Groundwater. The electronic information may not necessarily represent the information shown on the recorded or approved final developments and/or documents, and that the receiver is responsible for verifying the accuracy of the information against the recorded or approved final documents. This privileged and confidential information is intended only for the use of the addressee(s) named above. Anyone who receives this information should notify the sender immediately by reply e-mail.

From: roadrunnerpump@roadrunner.com <roadrunnerpump@roadrunner.com>
Sent: Thursday, January 24, 2019 08:17
To: Chad Taylor <CTaylor@toddgroundwater.com>
Subject: Request for Variance

Hi Chad,

We would like to request a variance for the water meter retrofit on the property located at: 16029 E. Avenue R, Llano, CA , for Boething Treeland Nursery.

AV Watermaster requires 10 diameters before and 5 diameters after. The meter we are installing requires very little straight pipe before and after (I have attached the manufacturer's specifications for your review).

Can you please let me know in writing if this request is approved?

Thank you,
 Archie

Archie Floyd

Roadrunner Pump Service

PO Box 1052

Pearblossom, CA 93553

661-944-5073


roadrunnerpump@roadrunner.com





545 USA



 McCrometer McMag 3000™			
SERIAL #:	NOTES:		I.D.
AG19-0155	Battery Powe		10.020
MODEL #:	M.F.D.	O.D.	
G310-6	02/19	10.750	

Calibration Report



Serial Number: AG19-0155 Test Number: AG19-0155 E. Well

Converter Serial Number: McMag3000

Model: G310-6 Calibration Date: 2/5/2019

Report Date: 2/5/2019

Sold To: NATIONAL WATER WELL SUPPLY

Description: MC MAG 3000,10"

Notes: _____

Customer I.D.: 10.02 in
255 mm

KA: 1.8012
KZ: 619

Any difference between the customer specified application dimension and test pipe dimension is accounted for by the flow converter.
The reported velocities shown on this report indicate actual meter performance and are independent of the inside diameter used in the calibration.

Calibration Report

	Velocity (m/s)		PLBF Accuracy (as % of reading)
	min	max	
1	0.35	0.65	99.44
2	0.65	0.95	98.70
3	0.95	1.26	98.57
4	1.26	1.56	98.64
5	1.56	1.86	98.81
6	1.86	2.16	99.02
7	2.16	2.47	99.27
8	2.47	2.77	99.55
9	2.77	3.07	99.83
10	3.07	3.38	100.13

KL Values

KL00:	000000000
KL01:	084100086
KL02:	133060136
KL03:	187507187
KL04:	235440238
KL05:	330000330
KL06:	000000000
KL07:	000000000
KL08:	000000000
KL09:	000000000
KL10:	000000000
KL11:	000000000

Approved By: _____

Vince H. Morton
ID#: 117110

Test Fluid: Water

Instrumentation Traceability Kit Number: V0143

Standard Used: Secondary

Test Data

	Water Temperature (°C)	Test Time (seconds)	Air Temperature (°C)	Barometric Pressure (kPa)	Relative Humidity (%)	Viscosity (cP)	Average Rate of Flow (m3/sec)	Test Pipe Inside Diameter (in)
1	12.9	32.435	16.5	95.78	50	1	0.17459	10.120
2	12.9	40.240	16.5	95.78	50	1	0.13467	10.120
3	12.9	32.524	16.5	95.78	50	1	0.09647	10.120
4	12.9	40.294	16.5	95.78	50	1	0.05837	10.120
5	12.9	40.243	16.5	95.78	50	1	0.01801	10.120

This calibration was performed using standards traceable to the National Institute of Standards and Technology (NIST), USA. Certificates of traceability for the individual test measurements listed in this report are documented and serialized by the Test Stand Instrumentation Traceability Kit Number identified above and are available upon request. Combined Uncertainty to a 95% confidence level is developed for each test point according to the methods described in the ANSI/NCSL Z540-2-1997.

Methods and procedures used in this calibration are in accordance with the McCrometer Flow Laboratory Technical Manual, revision 2.0.

Page 1 of 1

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Hours: 8am - 4:30pm PST, Monday - Friday

Serial Number: AG19-0155



FLOWMETER INSTALLATION DOCUMENTATION

**ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586**

Section 1: Producer and Well Information

Producer No.: Three Producer Name: Long Valley Road, LP
 Well Location Address: 16029 E, Avenue R, Llano, CA 93544
 Well Location APN: 3075-007-001 Produced Water Application APN(s): 3075-007-001
 Owner's Well No.: 3 State Well No.: 2006-011848 Watermaster Well ID: Unknown

Section 2: Pump Capacity Documentation

Pump Capacity or Range (gallons per minute): 1500
 Pump System Installation Date: 2006 Pump System Installer: Rottman Drilling and Pump
 Method used to Determine Pump Capacity: Water Meter
 Attach documentation of method used to determine pump capacity.
 VFD or Soft start Equipment Present (Yes/No): VFD-Operating Range Unknown
 Attach documentation of VFD or soft start equipment and settings demonstrating production range.

Section 3: Flowmeter Documentation

New or Replacement: Replacement Meter Serial No./ID of Replaced Meter: 20063523-10
 Flowmeter Type: Electromagnetic Flowmeter Manufacturer: McCrometer
 Flowmeter Model Name/No.: McMag3000, G310-6 Flowmeter Size (diameter, inches): 10"
 Flowmeter Rated Range (gpm): 240-3700 Flowmeter Accuracy (percent ±): +/-2%
 Method of Stating Accuracy: Percent of Reading Flowmeter Serial No.: AG19-0156
 (percent of reading or percent of full scale)
 Volumetric Units of Totalizer: Gallons Starting Totalizer Reading (prior to installation): 0
 Date Manufactured: 2/2019 Purchase Date: 2/2019 Most Recent Calibration Date: New Installation

Attach documentation of flowmeter from manufacturer, including:

- 1) Technical specifications describing meter type, size, range, and accuracy.
- 2) Manufacturer meter installation recommendations or requirements, including specifications for flow conditions leading to and from the meter.
- 3) Documentation of most recent calibration.
- 4) Documentation of manufacturing date.

FLOWMETER INSTALLATION DOCUMENTATION

**ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586**

Section 4: Installation Documentation

Description of flowmeter installation conditions: Submersible pump and wellhead are plumbed in 10" galvanized pipe. 30" before water enters the water meter, and 10" after the meter.

(Brief narrative description of all plumbing between wellhead and flowmeter and downstream of flowmeter at least five pipe diameters. Include dimensions of all pipe diameters and lengths of pipe and identify any changes in pipe diameter and all fittings between wellhead and flowmeter and downstream at least five pipe diameters. Also include description of tie-in to distribution system or discharge documenting pipe-full conditions at flowmeter.)

Totalizer Reading Following Installation: 0

Meters shall be installed to meet both manufacturers recommendations and the industry standard.


The industry standard minimum is straight pipe upstream of the meter that is 10 pipe diameters in length and straight pipe downstream of the meter that is 5 pipe diameters in length.
The straight pipe shall have no valves, angled or reducing/enlarging fittings, or other obstructions.

If the manufacturers recommendations for installation are less stringent than this industry standard, the party and the approved installer shall request a variance from the Watermaster Engineer prior to installation of any such meter.

Attach the following documentation of flowmeter installation:

- 1) As built drawings (computer generated or hand drawn) showing relative locations of wellhead, meter, and all flow restrictions (e.g., valves, elbows, reducers, etc.) and dimensions (lengths and diameters) of all pipes, fittings, valves, and meters.
- 2) At least one photograph showing the installed meter and associated piping from the wellhead.
- 3) At least one readable photograph showing the installed meter totalizer face showing the totalizer reading following installation.

Installed by: Roadrunner Pump Witnessed by: Archie Floyd Date: 2/20/2019

Meter Installer Signature and Date: 

Meter installation notes:

One copy to Watermaster Engineer, one copy to Producer, one copy retained by Installer.

FLOWMETER INSTALLATION DOCUMENTATION

ANTELOPE VALLEY WATERMASTER
P.O. BOX 3025, QUARTZ HILL, CA 93586

Section 5:

Instructions

All meter installation and documentation must be completed by a Pre-Approved Meter Installer in accordance with the metering guidelines in the Rules and Regulations for the adjudicated Antelope Valley Area. Contact the Watermaster or Watermaster Engineer for a list of Pre-Approved Meter Installer.

Producer Number and Name must be consistent with Watermaster designations. This information can be confirmed by contacting Watermaster Engineer prior to filling this form.

State Well Number and Watermaster Well ID must be consistent with Watermaster designations. This information can be confirmed by contacting Watermaster Engineer prior to filling this form.

Pump capacity or range shall be based on industry standard methods, including:

- 1) Measurement of discharge rate under normal operational conditions. Discharge rate measurement shall be made with industry standard tools such as a calibrated meter temporarily placed in the system, accuracy testing meters measuring flow through test tap ports, or open channel measurement devices placed at the discharge end of the system.
- 2) Estimation of approximate rate based on pump curve evaluation. This assessment shall include evaluation of pump curve for the exact make and model of the pump and motor in the well operating under the total dynamic head on the pumping system.
- 3) Other methods discussed with and approved by the Watermaster Engineer prior to selection and installation of flowmeters.

All pump capacities must be documented in attachments to this form. Documentation of pump capacity or range shall include the following:

- 1) The method used to estimate pump system discharge rate or range.
- 2) If measured directly, document the methods used for measurement, including the type of measuring device, the accuracy of that device, the most recent calibration of the device, location of the measuring device in the pumping/distribution system, number of measurements collected, and discharge rate from each measurement. For pumping systems with a range of potential production rates, the measurements should cover the entire range and the documentation should include information about the VFD or soft start system that controls discharge rates.
- 3) If estimated based on pump curve evaluation, provide pump curve and show calculation of total dynamic head. For pumping systems with a range of potential production rates, provide documentation of the VFD, soft start, or other discharge rate controller.
- 4) If an alternate pumping system capacity estimation method approved by the Watermaster Engineer has been used, provide the documentation required by that approval.

Documentation for all pump capacities reported as a range must include details of the VFD, soft start, or other discharge rate controlling device used to govern discharge rate. This shall include make, model, and specifications of each controlling device and information regarding the specific settings applied to the pumping system with sufficient detail to demonstrate the range of reported production capacities.

The Watermaster Engineer may consider a variance to the standard installation requirements if it can be demonstrated that accurate readings will be achieved with less stringent installation conditions as specified by the meter manufacturer or with the installation of flow straighteners or conditioners.

To apply for a variance to use a flow straightener, flow conditioner, or manufacturers recommendations that are less stringent than the industry standard, the party or the approved installer must submit a request to the Watermaster Engineer.

Requests for variances to allow flow conditioners, flow straighteners, or less stringent installation standards shall be made in writing and shall include details regarding the reason the variance is required, the manufacturer of the proposed meter and/or flow conditioner/straightener, and the proposed installation specifics.

The Watermaster Engineer will review and evaluate such requests for variances and no flow conditioners, flow straighteners, or less stringent installation standards shall be employed without written approval from the Watermaster Engineer.

One electronic copy (scanned pdf or Excel file) of the completed Flowmeter Installation Documentation form along with electronic versions of all required attachments shall be emailed to the Watermaster Engineer at the address indicated below:

ctaylor@toddgroundwater.com

roadrunnerpump@roadrunner.com

From: Chad Taylor <CTaylor@toddgroundwater.com>
Sent: Thursday, January 24, 2019 9:17 AM
To: roadrunnerpump@roadrunner.com
Subject: RE: Request for Variance

Archie,

This variance is approved.

Please send the meter documentation report once installation is complete.

Thank you,

Chad

Chad Taylor, PG, CHG
 Senior Hydrogeologist



2490 Mariner Square Loop, Suite 215
 Alameda, CA 94501
 510.747.6920 x112
ctaylor@toddgroundwater.com
www.toddgroundwater.com

AV Watermaster requires 10 diameters before and 5 diameters after. The meter we are installing requires very little straight pipe before and after (I have attached the manufacturer's specifications for your review). Can you please let me know in writing if this request is approved?

From: roadrunnerpump@roadrunner.com <roadrunnerpump@roadrunner.com>
Sent: Thursday, January 24, 2019 08:17
To: Chad Taylor <CTaylor@toddgroundwater.com>
Subject: Request for Variance

Hi Chad,

We would like to request a variance for the water meter retrofit on the property located at: 16029 E. Avenue R, Llano, CA, for Boething Treeland Nursery.

AV Watermaster requires 10 diameters before and 5 diameters after. The meter we are installing requires very little straight pipe before and after (I have attached the manufacturer's specifications for your review).

Can you please let me know in writing if this request is approved?

Thank you,
 Archie

Archie Floyd
Roadrunner Pump Service
PO Box 1052
Pearblossom, CA 93553
661-944-5073
roadrunnerpump@roadrunner.com





Calibration Report



Serial Number: AG19-0156

Test Number: AG19-0156 W. Well

Converter Serial Number: McMag3000

Model: G310-6

Calibration Date: 2/5/2019

Report Date: 2/5/2019

Sold To: NATIONAL WATER WELL SUPPLY

Description: MC MAG 3000, 10"

Notes:

Customer I.D.: 10.02 in
255 mmKA: 1.8195
KZ: 1978

Any difference between the customer specified application dimension and test pipe dimension is accounted for by the flow converter.
The reported velocities shown on this report indicate actual meter performance and are independent of the inside diameter used in the calibration.

Calibration Report

	Velocity (m/s)		PLBF Accuracy (as % of reading)
	min	max	
1	0.34	0.64	100.32
2	0.64	0.95	99.30
3	0.95	1.26	99.00
4	1.26	1.56	98.94
5	1.56	1.87	98.97
6	1.87	2.17	99.07
7	2.17	2.48	99.20
8	2.48	2.79	99.35
9	2.79	3.09	99.51
10	3.09	3.40	99.69

KL Values

KL00:	000000000
KL01:	000000000
KL02:	000000000
KL03:	000000000
KL04:	000000000
KL05:	000000000
KL06:	000000000
KL07:	000000000
KL08:	000000000
KL09:	000000000
KL10:	000000000
KL11:	000000000

Approved By:

Vince H. Morton
ID#: 117110

Test Fluid: Water

Instrumentation Traceability Kit Number: V0143

Standard Used: Secondary

Test Data

	Water Temperature (°C)	Test Time (seconds)	Air Temperature (°C)	Barometric Pressure (kPa)	Relative Humidity (%)	Viscosity (cP)	Average Rate of Flow (m3/sec)	Test Pipe Inside Diameter (in)
1	12.9	43.819	16.5	95.78	50	1	0.17592	10.120
2	12.9	40.275	16.5	95.78	50	1	0.13522	10.120
3	12.9	40.372	16.5	95.78	50	1	0.09714	10.120
4	12.9	40.211	16.5	95.78	50	1	0.05842	10.120
5	12.9	40.308	16.5	95.78	50	1	0.01773	10.120

This calibration was performed using standards traceable to the National Institute of Standards and Technology (NIST), USA. Certificates of traceability for the individual test measurements listed in this report are documented and serialized by the Test Stand Instrumentation Traceability Kit Number identified above and are available upon request. Combined Uncertainty to a 95% confidence level is developed for each test point according to the methods described in the ANSI/NCSS Z540-2-1997. Methods and procedures used in this calibration are in accordance with the McCrometer Flow Laboratory Technical Manual, revision 2.0.

Page 1 of 1

McCrometer, Inc. • 3255 West Stetson Avenue, Hemet, CA 92545, USA
Tel (951) 652-6811 • Fax (951) 652-3078 • Website: www.mccrometer.com

Serial Number: AG19-0156

Hours: 8am - 4:30pm PST, Monday - Friday



Attachment D

Water Conservation Practices

ANTELOPE VALLEY WATERMASTER

☐ Domestic
 ☒ Agricultural
 ☐ Commercial/Industrial
 ☐ Municipal
 ☐ Monitoring

Date December 5, 2022 Proposed Well Site APN 3075-007-001

Property Owner/Well Owner Long Valley Road, L.P.

Property Owner/Well Owner Mailing Address C/O Bruce Pherson, 23475 Long Valley Road, Woodland Hills, CA 91367

Contact Phone Number (818) 316-2090 Contact email bpherson@boethingtreeland.com

Estimated annual pumping from New Well NTE 300 acre-feet/year Well capacity 4,500 (combined) gallons/minute

Describe the proposed use of the New Well (attach back up information as necessary) Agricultural irrigation (See Attachment A to accompanying New Production Application).

Lot/Parcel Size 135 (acres)

Proposed Structure(s) (e.g. home, office, barn, etc.) and size (square feet) Small existing structures (See Attachment A to accompanying New Production Application).

Number of full bathrooms N/A Number of half bathrooms N/A

Is there (or will there be) a pool? No Size of pool N/A (gallons)

Is there (or will there be) a spa/hot tub? No Size of spa/hot tube N/A (gallons)

Area to contain irrigated landscaping 0 square-feet

Describe all proposed landscaping (type and how many) N/A

Area to contain irrigated crops or fruit trees Up to 5,000,000 square-feet

Describe all proposed crops and fruit trees (type and how many) Please see Attachment A to accompanying New Production Application.

Please provide details on potential water use not mentioned above (e.g. farm animals, etc.)

Please see Attachment A to accompanying New Production Application.

Water Conservation Checklist

Please indicate which of the following measures will be used:

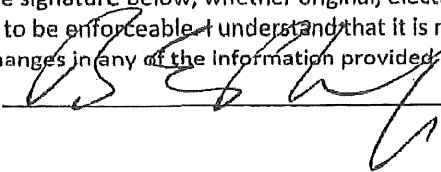
- ☐ ENERGY STAR® water-conserving appliances installed, e.g., dishwasher, washing machine appl.
- ☐ Water-efficient showerhead using conventional aerator or venturi technology for flow rate < 2.5 gpm fixture
- ☐ Water-efficient sink faucets/aerators < 2.2 gallons/minute
- ☐ Ultra-low flow (< 1.6 gpm/flush) toilets installed
- ☒ Low-volume, non-spray irrigation system installed, e.g., drip irrigation, bubblers, drip emitters, soaker hose, stream-rotator spray heads
- ☒ Weather-based irrigation controllers, e.g., computer-based weather record
- ☒ Collect and use rainwater as permitted by local code
- ☐ Separate and re-use greywater as permitted by local code
- ☐ Composting or waterless toilet as permitted by local code
- ☒ Drought-resistant, native plants (site-appropriate)
- ☐ Xeriscape landscaping
- ☐ Evapotranspiration-based irrigation controller with a rain sensor
- ☐ Soil moisture sensor-based irrigation controller

Please provide additional details here Please see Attachment A to accompanying New Production Application.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information provided on this Water Conservation Practices for Single Family Home form is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days.

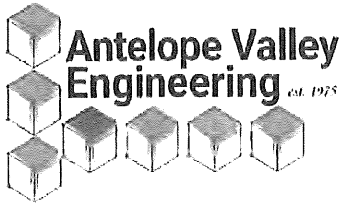
Signature of Applicant



Date

12-6-2022

Attachment E



DECEMBER 1, 2022

REF NO: L22-211

TODD GROUNDWATER
2490 MARINER SQUARE LOOP, SUITE 215
ALAMEDA, CA 94501

ATTN: KATHERINE WHITE

RE: IRRIGATION WATER WELL
LONG VALLEY ROAD, L.P.
APN 3075-007-001
LLANO, CA

DEAR MS. WHITE,

THE OWNER HAS PROVIDED A WATER CONSERVATION PRACTICES FORM FOR EXISTING WELLS, ALONG WITH A DETAILED DISCRIPTION OF THE EXISITNG WATER USE, WHICH INDICATES AN ESTIMATED ANNUAL WATER DEMAND OF APPROXIMATELY 300 AFY FOR IRRIGATION AND OTHER PURPOSES ON THEIR PROPERTIES. PER THE DESCRIPTION, THEY ARE ACQUIRING CARRY-OVER WATER TO COVER THEIR WATER USAGE AND WILL CONTINUE TO DO SO AND/OR ACQUIRE OTHER APPLICABLE WATER RIGHTS, INCLUDING BUT NOT LIMITED TO PAYING ANY APPLICABLE REPLACEMENT WATER ASSESSMENTS, IF NEEDED. WITH THE ACQUISTION OF THESE WATER RIGHTS, PAYMENT OF ANY ASSESSMENTS, AND THIS BEING AN EXISITNG USE, THE POTENTIAL FOR THESE EXISITNG WELLS TO CAUSE MATERIAL INJURY TO THE GROUND WATER BASIN IS NEGLIGIBLE.

RESPECTFULLY,

BARRY S. MUNZ, PE
VICE PRESIDENT



From: [Angel Fitzpatrick](#)
To: bpherson@boethingtreeland.com
Cc: [Kate White](#); [Mike Maley](#); [Arden Wells](#)
Subject: New Production Application Request - Long Valley Road LP
Date: Tuesday, June 7, 2022 8:05:10 AM
Attachments: [New Production Application Approved 21.09.29.pdf](#)
[Water Conservation Form Approved 19.07.24.pdf](#)

Long Valley Road LP,

You are a member of the Small Pumper Class in the Antelope Valley Groundwater Basin Adjudication and have a Production Right of 3 acre-feet per year (AFY) (and rights to Imported Water Return Flows (IWRFs)). The Watermaster is requesting that all Small Pumpers that regularly over-pump submit New Production applications for the amount of water they anticipate that they will produce over their Production Right of 3 AFY and IWRF credits.

Our records show that Long Valley Road LP produced 266.65 AF in 2021. An approved New Production application is required to continue producing over the allowed 3 AFY Production Right as a Small Pumper. A New Production application and a Water Conservation Practices form are attached.

13. c. (a) (7) Other Parties. Additional Parties can obtain water through a Transfer to make an in-kind payment of a Replacement Water Assessment, on a special, limited basis, provided no Material Injury is associated with the Transfer and further provided that the Transfer has been approved by the Watermaster Engineer and the Watermaster General Counsel and is determined to be consistent with all other applicable provisions of the Judgment. Such Parties include the Non-Stipulating/Supporting Landowner Parties, Small Pumpers, and Parties with approved New Production rights. Such Transfers will only be approved on a limited basis, can only be used for a Replacement Water Assessment, and cannot be carried over because such Parties have no rights to do so under the Judgment. [See ¶¶ 5.1.10, 5.1.2.1, 5.1.3.3, and 15.3.] Parties wishing to use a Transfer in lieu of a Replacement Water Assessment or to offset Production in a previous year must submit a Transfer Request Form by March 1 to be considered and approved prior to the invoicing date of May 1.

However, in the future, you cannot Carry Over any unused Transfer water. Only Exhibit 3, Exhibit 4, and the State of California Parties are permitted to Carry Over water as per the following R&R section:

8. c. Producers Eligible for Carry Over Water

(a) The Judgment specifies that only three Producer classes are eligible for Carry Over Water: Overlying Producers [¶5.1.1 – Exhibit 4 of the Judgment], State of California Water Right [¶5.1.5], and Non-Overlying Producers [¶5.1.6 – Exhibit 3 of the Judgment].

Please let me know if you have any questions.

Thank you,
Angel Fitzpatrick
AV Watermaster Staff

Exhibit C

Antelope Valley Watermaster Board
Meeting Agenda
Wednesday, April 26, 2023 – 10:00 a.m.
Location: Antelope Valley – East Kern Water Agency
6450 West Avenue N, Palmdale, CA 93551
or

Website: <https://zoom.us/j/687127281> **Teleconference: (669) 900-6833 Access Code: 687 127 281**

This meeting may be recorded

1) Call to Order

2) Roll Call

BOARD OF DIRECTORS

Robert Parris, AVEK Representative – Chairperson
 Kathy MacLaren, Public Water Supplier Representative – Vice-Chairperson
 Russ Bryden, Los Angeles County Waterworks District 40 Representative
 Brandon Calandri, Landowner Representative
 Derek Yurosek, Landowner Representative
 Matthew Knudson, AVEK Representative Alternate
 Angelica Martin, Landowner Representative Alternate
 Adrienne Lewis Reca, Landowner Representative Alternate
 Barbara Hogan, Public Water Supplier Representative Alternate
 Sami Kabar, Los Angeles County Waterworks District 40 Representative Alternate

Jim Beck, Hallmark Group – Watermaster Administrator
 Jessica Alwan, Hallmark Group – Watermaster Administrator
 Joshua Montoya, Hallmark Group – Watermaster Administrator
 Phyllis Stanin, Todd Groundwater – Watermaster Engineer
 Arden Wells, Todd Groundwater – Watermaster Engineer
 Craig Parton, Price, Postel & Parma LLP – General Counsel
 Cameron Goodman, Price, Postel & Parma LLP – General Counsel

3) Adoption of the Agenda *(Note: At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.)*

4) Public comments for non-agenda items *(This portion of the agenda allows an individual the opportunity to address the Board on any item regarding Watermaster business that is NOT ON THE AGENDA. Without acting or entering a dialogue with the public, Board members may ask clarifying questions about topics posed by the public. Your matter may be referred to the administrator and/or advisory committee.)*

5) Consent Agenda *(Staff Report: Administrator)*

Item	Description	Page
a.	Financial Report and Payment of bills through March 31, 2023	5
b.	Minutes of March 22, 2023, Regular Meeting	21

6) Advisory Committee Report *(Advisory Committee Chair Chaisson)*

Item	Description	Page
a.	Advisory Committee Written Report	26

7) Administrative Committee Report *(Staff Report: Administrator)*

Item Description

a.	Administrative Committee Report	
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8) Update on Delinquent Annual Reports *(Staff Report: Administrative Staff)*

Item	Description	Page
a.	Report on delinquent annual reports as of April 12, 2023	31

9) Update on Annual Audit *(Staff Report: Administrative Staff)*

Item	Description	Page
a.	Update on time spent on audit and outcome of engagement with auditor	36

10) Update on Amendment to the Rules and Regulations for Repayment of Delinquent RWA's *(Staff Report: General Counsel)*

Item	Description	Page
a.	Amendment to the Rules and Regulations for Repayment of Delinquent RWA's	39

11) Update on Amendment to the Rules and Regulations Placing Limitations on New Production *(Staff Report: General Counsel)*

Item	Description	Page
a.	Amendment to the Rules and Regulations Placing Limitation on New Production	41

12) Consideration and Possible Action on Transfer application *(Staff Report: Engineering)*

Item	Resolution No.	Description	Page
a.	R-23-27	High Desert Dairy to Craig Van Dam	45
b.	R-23-30	AV Water Trust to Perini	65
c.	R-23-31	Caruso to Perini	77
d.	R-23-32	PWD to LCID	90

13) Consideration and Possible Action on New Production application *(Staff Report: Engineer)*

Item	Resolution No.	Description	Page
a.	R-23-04	Barrel Springs (120 AF)	123

14) Consideration and possible action on Well application *(Staff Report: Administrative Staff)*

Item	Resolution No.	Description	Page
a.	R-23-33	Bolthouse Properties, LLC – Replacement Well Application	160
b.	R-23-34	Bolthouse Properties, LLC – Replacement Well Application	170

15) Administrator's Report

Item	Description	Page
a.	Update on Administration Activities	181

16) Watermaster Engineer's Report

Item	Description	Page
a.	Summary of New Production and Qualified Small Pumpers	183
b.	Model Update	

17) General Counsel's Report

Item	Description	Page
a.	Update on Court Proceedings	184
b.	Update on March 27, 2023 Letter Sent to Mr. Moore	185

18) Board Members Request for Future Agenda Items**19) Closed Session, Conference with Legal Counsel General Counsel's Report**

Item	Description
a.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Zamrzla Parties
b.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Rancho Sierra Properties, LLC
c.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Antelope Valley Resource Conservation District
d.	CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2): Gary Van Dam.

20) Closed Session Report**21) Adjournment – Next Meeting May 24, 2023.**

Antelope Valley Watermaster
Financial Report
For The Month Ended March 31, 2023

Cash - Checking Account (Funds Available and Held at Citizens Business Bank)	
Beginning Bank Balance - March 1, 2023	\$ 263,184.54
Add: Deposits	59,000.37
Money Market Transfers - Annual Interest	-
In-Vendor Payment (Federal Account)	-
Less: Disbursements - <i>cleared checks only</i>	(99,136.92)
Money Market Transfers	-
Ending Bank Balance - March 31, 2023	<u>\$ 223,047.99</u>
Add: Deposits in Transit	-
Less: Pending uncleared checks	(5,160.99)
Pending Disbursements - <i>current request for payment of bills</i>	(81,877.78)
Adjusted Cash Balance - March 31, 2023	<u>\$ 136,009.22</u>
Add: Accounts Receivable - Current	130,778.80
Accounts Receivable - 60+ Days	105,947.41
Less: Deposit Retainers	-
General Asset Group - March 31, 2023	<u><u>\$ 372,735.43</u></u>
Cash - Restricted Money Market Account (Funds Available and Held at Citizens Business Bank)	
Beginning Bank Balance - March 1, 2023	\$ 254,794.08
Add: Deposits	-
Transfers from Checking Account (RWA Funds Received)	-
Interest Earned	21.64
Less: RWA Payments to AVSWCA	-
Transfers to Checking Account - Annual Interest	-
Ending Bank Balance - March 31, 2023	<u>\$ 254,815.72</u>
Add: Deposits in Transit	-
Less: Pending Disbursements	-
Adjusted Cash Balance - March 31, 2023	<u>\$ 254,815.72</u>
Add: Accounts Receivable - Current	-
Accounts Receivable - 60+ Days	860,309.92
Restricted Asset Group - March 31, 2023	<u><u>\$ 1,115,125.64</u></u>

Disbursements - March 2023

5359 Glotrans - Andrew Jamieson	\$ 2,400.00
5360 Palmdale Water District	1,671.65
5361 Todd Groundwater	20,799.48
5362 Antelope Valley East Kern Water Agency	332.00
5363 Hallmark Group	29,454.81
5364 Price, Postel & Parma LLP	26,130.50
5365 Pamela Godde - refunded duplicate payment	1,089.34
Total Disbursements - March 2023	<u><u>\$ 81,877.78</u></u>

Antelope Valley Watermaster

Statements of Net Position

As of March 31, 2023

	TOTAL		
	AS OF MAR 31, 2023	AS OF MAR 31, 2022 (PY)	CHANGE
ASSETS			
Current Assets			
Bank Accounts			
Citizens Business Bank - Checking	217,887.00	497,970.70	-280,083.70
Citizens Business Bank - Money Market	254,815.72	1,435,989.75	-1,181,174.03
Total Bank Accounts	\$472,702.72	\$1,933,960.45	\$ -1,461,257.73
Accounts Receivable			
Accounts Receivable (A/R)	1,097,036.13	934,983.14	162,052.99
Total Accounts Receivable	\$1,097,036.13	\$934,983.14	\$162,052.99
Total Current Assets	\$1,569,738.85	\$2,868,943.59	\$ -1,299,204.74
TOTAL ASSETS	\$1,569,738.85	\$2,868,943.59	\$ -1,299,204.74
LIABILITIES AND EQUITY			
Liabilities			
Current Liabilities			
Accounts Payable			
Accounts Payable (A/P)	111,190.89	37,333.12	73,857.77
Total Accounts Payable	\$111,190.89	\$37,333.12	\$73,857.77
Total Current Liabilities	\$111,190.89	\$37,333.12	\$73,857.77
Total Liabilities	\$111,190.89	\$37,333.12	\$73,857.77
Equity			
Retained Earnings	1,331,634.83	2,463,167.18	-1,131,532.35
Net Income	126,913.13	368,443.29	-241,530.16
Total Equity	\$1,458,547.96	\$2,831,610.47	\$ -1,373,062.51
TOTAL LIABILITIES AND EQUITY	\$1,569,738.85	\$2,868,943.59	\$ -1,299,204.74

Antelope Valley Watermaster

Statements of Changes in Net Position

January - March, 2023

	TOTAL		
	JAN - MAR, 2023	JAN - MAR, 2022 (PY)	CHANGE
Income			
Application Fees			
Monitoring Well Application Fees	50.00	550.00	-500.00
New Point of Extraction Application Fees	1,350.00		1,350.00
New Production Application Fees	6,750.00	3,800.00	2,950.00
Permanent Water Transfer Request Fees	5,450.00	4,300.00	1,150.00
Replacement Well Application Fees	450.00		450.00
Small Pumper Qualifying Doc Appl Fees	150.00		150.00
Temporary Water Transfer Request Fees	10,975.00	6,450.00	4,525.00
Total Application Fees	25,175.00	15,100.00	10,075.00
Assessments			
Fixed Administrative Assessments	356,478.36	252.00	356,226.36
Replacements Water Assessments		445,714.51	-445,714.51
Variable Administrative Assessments		4,366.13	-4,366.13
Total Assessments	356,478.36	450,332.64	-93,854.28
Other Income - Uncatgorized			
Late Fees	0.00	738.68	-738.68
Parcel Location Request		25.00	-25.00
Reimbursed Expenses - Income		47,653.50	-47,653.50
Total Other Income - Uncatgorized	0.00	48,417.18	-48,417.18
Total Income	\$381,653.36	\$513,849.82	\$ -132,196.46
GROSS PROFIT	\$381,653.36	\$513,849.82	\$ -132,196.46
Expenses			
Contracted Administrative Services	88,099.73	25,831.35	62,268.38
Dues & Subscriptions	4,182.00	3,920.00	262.00
Insurance Expenses	2,965.00	1,219.47	1,745.53
Legal & Professional Fees	105,411.37	60,926.30	44,485.07
Office Expenses	317.77		317.77
Other Contract Services		18,000.00	-18,000.00
Postage and Printing	228.64	166.95	61.69
Watermaster Engineer	53,599.23	35,763.60	17,835.63
Total Expenses	\$254,803.74	\$145,827.67	\$108,976.07
NET OPERATING INCOME	\$126,849.62	\$368,022.15	\$ -241,172.53
Other Income			
Interest Earned	63.51	421.14	-357.63
Total Other Income	\$63.51	\$421.14	\$ -357.63
NET OTHER INCOME	\$63.51	\$421.14	\$ -357.63
NET INCOME	\$126,913.13	\$368,443.29	\$ -241,530.16

Antelope Valley Watermaster

A/R Aging Summary

As of March 31, 2023

	CURRENT	1 - 30	31 - 60	61 - 90	91 AND OVER	TOTAL
1000 Non-Overlying Production Rights						\$0
Los Angeles County Waterworks District No. 40, Antelope Valley		33,946				\$33,946
Quartz Hill Water District		2,819				\$2,819
Total 1000 Non-Overlying Production Rights		36,765				\$36,765
1100 Overlying Production Rights						\$0
60th Street Association Water System		11			2,000	\$2,011
Averydale Mutual Water Company		1,272				\$1,272
Barry and Sharon Munz Barry and Sharon Munz 2014 Revocable Trust, Terry A. & Kathleen M. Munz		25				\$25
Baxter Mutual Water Company		175			193	\$368
Bolthouse Properties LLC c/o Brad DeBranch		49,725				\$49,725
Brittner Trust c/o George Brittner		20			8,253	\$8,273
C. Louise R. Close Living Trust		5			35	\$40
City of Los Angeles, Department of Airports		19,875				\$19,875
Copa De Oro Land Company		50				\$50
EDF Renewables Development, Inc		5				\$5
eSolar Inc.; Sierra Sun Tower, LLC		15			112	\$127
Gary Van Dam	-233					\$ -233
Gloria Terrazas		-15				\$ -15
Golden Gate Fields Solar III, LLC		75				\$75
Irma Ann Carle Trust, Irma-Anne Carle, Trustee		5				\$5
James and Elizabeth Bridwell		5			1	\$6
Jeffrey and Nancee Siebert		500				\$500
John and Adrienne Reca		1,255				\$1,255
Leah Frankenberg					-4	\$ -4
Luis Hernandez		25			3	\$28
Michael Herbert		25			28	\$53
Noel Pool		5			11	\$16
Northrop Grumman Systems Corporation		10				\$10
NRG Energy Inc. Clearway Energy c/o Susan Jackson		190				\$190
Pamela Godde		1,089		-1,089		\$0
R AND M RANCH, INC.		3,430				\$3,430
Rabbittbrush Solar, LLC		50			55	\$105
Randall and Billie Dickey		5			6	\$11
Rose Villa Apartments			-1			\$ -1
Rudy Turk		5			1	\$6
Ruth C. Findley		5			1	\$6
SGS Antelope Valley Development, LLC		285			1,978	\$2,263
Southern California Edison Company		40				\$40
Suzanne J. Richter		5				\$5
Thomas Graves		5				\$5
WDS California II, LLC		16,245				\$16,245
Total 1100 Overlying Production Rights	-233	94,422	-1	-1,089	12,672	\$105,770
1200 Producers with Return Flow Rights						\$0
Edgemont Acres MWC					3	\$3
Total 1200 Producers with Return Flow Rights					3	\$3
1300 Small Pumpers						\$0
Charlie Tapla					3,433	\$3,433
Johnny Zamrzla						<i>Subject to Litigation</i>
Total 1300 Small Pumpers					303,915	\$303,915
1500 State of California						\$0
CA DEPT OF Corrections and REHAB AP/D		15				\$15
California Department of Water Resources		520				\$520
California State Lands Commission					2	\$2
Caltrans		235			24	\$259
Total 1500 State of California		770			25	\$795
1600 City of Lancaster					5	\$5
1675 Supporting Landowners (Formerly 2000)						\$0
Reesdale Mutual Water Company		115			4,010	\$4,125
Total 1675 Supporting Landowners (Formerly 2000)		115			4,010	\$4,125
1700 Federal						\$0
412 CE/CENP – FIS2AA					5,102	\$5,102
Total 1700 Federal					5,102	\$5,102

Antelope Valley Watermaster

A/R Aging Summary

As of March 31, 2023

	CURRENT	1 - 30	31 - 60	61 - 90	91 AND OVER	TOTAL
1950 New Production						\$0
Antelope Valley Resources Conservation District					55,704	\$55,704
Joshua Acres Mutual Water Company					65,267	\$65,267
Larry Davison					540	\$540
Plute Mutual Water Company					27,271	\$27,271
Rancho Sierra Properties, LLC					455,506	\$455,506
Ron Banuk					-9,506	\$ -9,506
Wilsona Gardens Water Company					45,745	\$45,745
Total 1950 New Production					640,527	\$640,527
40AA Water Holdings, LLC		5				\$5
Class 1350 - Known Small Pumpers						\$0
Kirsten Rosenberg	25					\$25
Total Class 1350 - Known Small Pumpers	25					\$25
TOTAL	\$ -208	\$132,077	\$ -1	\$ -1,089	\$966,257	\$1,097,036

A N T E L O P E V A L L E Y
W A T E R M A S T E R
B O A R D M E M O R A N D U M

DATE: April 13, 2023
TO: Board of Directors and Administrative Committee
FROM: Mr. James Beck, Administrative Staff
RE: PAYMENT OF BILLS THROUGH MARCH 31, 2023

Recommendation:

Staff has reviewed and recommends payment for the attached invoices:

Vendor	Period	Budgeted	Reimbursable
AVEK – Administration	03/2023	\$284.00	
Andrew Jamieson – GloTrans	03/2023	\$1,200.00	
Hallmark Group – Administration	03/2023	\$26,336.04	\$600.00
Palmdale Trophy – BOD Engraved Name Plates	03/2023	\$26.46	
Price, Postel & Parma LLP – General Representation	03/2023	\$49,075.64	
Price, Postel & Parma LLP – AVRCD	03/2023	\$869.00	
Todd Groundwater – Engineering Services	02/2023	\$14,175.82	
Todd Groundwater – Applications	02/2023		\$3,450.00
Todd Groundwater – Engineering Services	03/2023	\$15,173.93	

Total Invoices to be Paid:

\$111,190.89

Checking Account - Funds Available:

Checking Account Balance as of March 31, 2023: \$217,887.00

Money Market - Funds Available:

Replacement Water Assessment Balance as of March 31, 2023: \$254,815.72

Supporting Documents:

Copies of invoices.

INVOICE



ANTELOPE VALLEY
EAST KERN WATER AGENCY
6500 WEST AVENUE N
PALMDALE, CA 93551-2855
PH:(661) 943-3201 FAX:(661) 943-3204

INVOICE NUMBER: 03-31-23-1

INVOICE DATE: 3/31/23

PAGE: 1

SOLD TO:

AV Watermaster
500 Capitol Mall, Suite 2350
Sacramento, CA 95814

CUSTOMER I.D.		CUSTOMER P.O.		PAYMENT TERMS	
AV Watermaster					
SALES REP I.D.		SHIPPING METHOD		SHIP DATE	DUE DATE
					4/30/23
QUANTITY	ITEM NUMBER	DESCRIPTION		UNIT PRICE	EXTENSION
		March 2023 Administrative Services			284.00

Subtotal	284.00
Sales Tax	
Total Invoice Amount	\$284.00
Payment Received	0.00
TOTAL DUE	\$284.00

Andrew Jamieson
 1223 Blake Street
 Berkeley, CA 94702
 (510) 717-4803
ajam@glotrans.com

Invoice

Bill To:
 Jacqueline Harris
 Antelope Valley Watermaster
 500 Capitol Mall, Suite 2350
 Sacramento, CA 95814
 Email: jharris@hgcpm.com

Invoice #: 10536
 Date: 03/31/2023
 Due date: 04/30/2023

Invoice: March 31, 2023

Date	Account Summary	Amount
03/27/2023	Balance from Invoice # <u>10535</u>	2,400.00
03/27/2023	Payment: Check #5359	-2,400.00
	Total Amount due	\$1,200.00

Date	Description	Amount
03/31/2023	Hosting and support of document repository, www.avwatermaster.org for the month of March 2023, 1 @ \$1,200.00	1,200.00
	Total of new charges	[see above]

Please make your check payable to:

Andrew Jamieson



INVOICE

Billed To:

Antelope Valley Watermaster
Attn: Accounts Payable
5022 West Avenue N, Ste 102 #158
Palmdale, CA 93551

Please Remit Payment To:

The Hallmark Group
500 Capitol Mall, Ste 2350
Sacramento, CA 95814
P: (916) 923-1500

Invoice No.: 2023-AVWM-03

Date: March 31, 2023

Agreement No.: 22101

Project: Administrator

Task Order: HG-001

Billing Period: March 1, 2023 through March 31, 2023

Task Order	Task Description	Personnel	Billing Classification	Hours	Rate	Amount
HG-001	Watermaster Administrator	Jim Beck	VP/Program Manager	12.25	\$ 350.00	\$ 4,287.50
		Jacqueline Harris	Project Controls	58.00	\$ 225.00	\$ 13,050.00
		Jessica Alwan	Project Manager	10.00	\$ 200.00	\$ 2,000.00
		Hannah Fuentes	Project Controls Coordinator	7.00	\$ 150.00	\$ 1,050.00
		Josh Montoya	Project Coordinator	43.50	\$ 125.00	\$ 5,437.50
Total Watermaster Administrator Labor						\$ 25,825.00
Task Order	Task Description	Personnel		Miles	Rate	Amount
HG-001	Mileage	Jim Beck		142.00	\$ 0.655	\$ 93.01
		Josh Montoya		378.40	\$ 0.655	\$ 247.85
		Total Mileage Expense			\$ 340.86	
Task Order	Task Description	Application		Qty	Fee	Amount
HG-001	Application Processing	Water Transfers		3.00	\$ 150.00	\$ 450.00
		New Point of Extraction		1.00	\$ 150.00	\$ 150.00
Total Application Fees						\$ 600.00
Direct Costs						Amount
HG-001	Office Depot - Printing Agenda Documents					\$ 31.18
	QuickBooks Subscription					\$ 85.00
	Regus - Mail processing fee (Apr 2023)					\$ 54.00
Total Direct Costs						\$ 170.18
TOTAL AMOUNT DUE THIS INVOICE						\$ 26,936.04

Maximum Contract Value and Progress Billing						
Task	Contract Value	Amendments/ Change Orders	Total Committed	Previously Billed	Current Billing	Remaining Balance
Administrator Labor	\$ 161,000.00	\$ -	\$ 161,000.00	\$ 54,637.50	\$ 25,825.00	\$ 80,537.50
Mileage	\$ 4,000.00	\$ -	\$ 4,000.00	\$ 854.12	\$ 340.86	\$ 2,805.02
Applications					\$ 600.00	
Direct Costs					\$ 170.18	
Total	\$ 165,000.00	\$ -	\$ 165,000.00	\$ 55,491.62	\$ 26,936.04	\$ 83,342.52



PRICE, POSTEL & PARMA LLP
Counsellors at Law

P.O. Box 99
 Santa Barbara, CA 93102-0099

(805) 962-0011

TAX ID # 95-1782877

Antelope Valley Watermaster
 Attn: Ms. Jacqueline Harris
 Chief Financial Officer
 Hallmark Group
 jharris@hgcpm.com

April 4, 2023
 File: 23641-00007
 Invoice #: 203827
 Billing Attorney: CAP

Matter: AV Resource Conservation District

PLEASE RETURN THIS PAGE WITH YOUR REMITTANCE.

SUMMARY OF CURRENT BILLING

Current Fees	\$869.00
Total Current Fees & Costs	\$869.00
Previous Balance	\$0.00
Payments - Thank You	\$0.00
TOTAL BALANCE DUE	\$869.00

BALANCE IS DUE UPON RECEIPT.

THE FIRM'S HOURLY RATES ARE REVIEWED ANNUALLY AND
 MAY CHANGE EFFECTIVE JANUARY 1ST UNLESS OTHERWISE AGREED.



PRICE, POSTEL & PARMA LLP
Counsellors at Law

P.O. Box 99
 Santa Barbara, CA 93102-0099

(805) 962-0011

TAX ID # 95-1782877

Antelope Valley Watermaster
 Attn: Ms. Jacqueline Harris
 Chief Financial Officer
 Hallmark Group
 jharris@hgcpm.com

April 4, 2023
 File: 23641-00001
 Invoice #: 203283
 Billing Attorney: CAP

Matter: General Representation

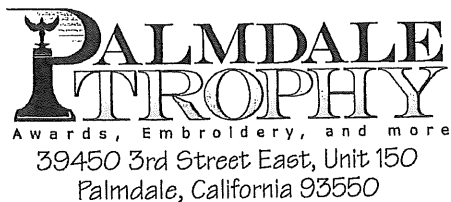
PLEASE RETURN THIS PAGE WITH YOUR REMITTANCE.

SUMMARY OF CURRENT BILLING

Current Fees	\$46,927.00
Current Disbursements	\$2,148.64
Total Current Fees & Costs	\$49,075.64
Previous Balance	\$26,130.50
Payments - Thank You	\$26,130.50
TOTAL BALANCE DUE	\$49,075.64

BALANCE IS DUE UPON RECEIPT.

THE FIRM'S HOURLY RATES ARE REVIEWED ANNUALLY AND
 MAY CHANGE EFFECTIVE JANUARY 1ST UNLESS OTHERWISE AGREED.



661.273.2880
661.274.7628 fax
www.palmdaletrophy.com

Invoice

Date	Invoice #
3/15/2023	20205

Bill To				Ship To	
ANTELOPE VALLEY-EAST KERN WATER AGENCY ACCOUNTS PAYABLE 6450 W AVENUE N QUARTZ HILL, CA 93536					
P O Number		Terms	Payment Due	Via	Ordered By
		Net 30	4/14/2023	Pickup	Diana Mills
Qty	Part #	Size	Product Description	Price	Extension
2	PLASTIC	2 x 8	ENGRAVED SIGNAGE Watermaster - Boardroom name Plates - Russ Bryden - Kathy MacLaren	12.00	24.00
Avek Water Agency MAR 16 2023 Received					
Subtotal		\$24.00	Sales Tax (10.25%)	\$2.46	Total
					\$26.46
Please Pay From This Invoice. Thank You!				Payments/Credits	
				\$0.00	
Received By				Balance Due	
				\$26.46	

TODD

GROUNDWATER

2490 Mariner Square Loop, Suite 215

Alameda, CA 94501

510/747-6920

Federal ID# 94-2490748

Invoice

DATE
3/8/2023

INVOICE NO.
79602 323

BILL TO:

Antelope Valley Watermaster

Attn: Robert Parris

Transmitted via email Jaqueline Harris

(jharris@hgcpm.com)

Project No: 79602-AVWM Application Fees

DESCRIPTION	HOURS	RATE	AMOUNT
Professional services in connection with: Application Fees			
New Production Application (Lee, Mendez and Guerra)	2	800.00	1,600.00
Transfer-Permanent and/or equal to 10 AFY (Steve and Denise Godde to Robertson's, Pamela Godde to Robertson's)	2	925.00	1,850.00

Feb 1 - Feb 28

\$3,450.00

This invoice is now due and payable. Balances unpaid over 30 days accrue 1.5% interest per month. If payment for previous charges has been sent, please accept our thanks and disregard our reminder of previous unpaid charges.

TODD

GROUNDWATER

2490 Mariner Square Loop, Suite 215

Alameda, CA 94501

510/747-6920

Federal ID# 94-2490748

Invoice

DATE	INVOICE NO.
3/8/2023	79601 323

BILL TO:

Antelope Valley Watermaster

Attn: Robert Parris

Transmitted via email Jaqueline Harris

(jharris@hgcpm.com), Hallmark Group

Project No: 79601 - Antelope Valley WM ES

DESCRIPTION	HOURS	RATE	AMOUNT
Professional services in connection with Watermaster Engineer Services.			
Phyllis Stanin	24.75	268.00	6,633.00
Mike Maley	4	252.00	1,008.00
Kate White	4.75	255.00	1,211.25
Chad Taylor	3.75	252.00	945.00
Arden Wells	17.25	158.00	2,725.50
Walt McNab	8.5	158.00	1,343.00
Professional Services Subtotal			13,865.75
Communications Fee @ 2% of Professional Services	13,865.75	0.02	277.32
Administrative/Secretarial:			
Cynthia Obuchi	0.25	131.00	32.75

Attached find budget status spreadsheet and work detail sheets.

Feb 1 - Feb 28	\$14,175.82
----------------	-------------

This invoice is now due and payable. Balances unpaid over 30 days accrue 1.5% interest per month. If payment for previous charges has been sent, please accept our thanks and disregard our reminder of previous unpaid charges.

TODD

GROUNDWATER

2490 Mariner Square Loop, Suite 215

Alameda, CA 94501

510/747-6920

Federal ID# 94-2490748

Invoice

DATE

4/8/2023

INVOICE NO.

79601 423

BILL TO:

Antelope Valley Watermaster

Attn: Robert Parris

Transmitted via email Jaqueline Harris

(jharris@hgcpm.com), Hallmark Group

Project No: 79601 - Antelope Valley WM ES

DESCRIPTION	HOURS	RATE	AMOUNT
Professional services in connection with Watermaster Engineer Services.			
Phyllis Stanin	18.75	268.00	5,025.00
Chad Taylor	2	252.00	504.00
Maureen Reilly	3.5	247.00	864.50
Arden Wells	32.25	158.00	5,095.50
Walt McNab	12	210.00	2,520.00
Professional Services Subtotal			14,009.00
Communications Fee @ 2% of Professional Services	14,009	0.02	280.18
Drafting, GIS & Support Services:			
Mike Wottrich	6	142.00	852.00
Administrative/Secretarial:			
Cynthia Obuchi	0.25	131.00	32.75

Attached find budget status spreadsheet and work detail sheets.

Mar 1 - Mar 31

\$15,173.93

This invoice is now due and payable. Balances unpaid over 30 days accrue 1.5% interest per month. If payment for previous charges has been sent, please accept our thanks and disregard our reminder of previous unpaid charges.

Minutes to be Approved
Meeting – March 22, 2023

**Antelope Valley Watermaster Board
Meeting Minutes
Wednesday, March 22, 2023 – 10:00 a.m.
Location: Antelope Valley – East Kern Water Agency
6450 West Avenue N, Palmdale, CA 93551**

1) Call to Order 10:10am

2) Roll Call

BOARD OF DIRECTORS

Kathy MacLaren, Public Water Supplier Representative – Vice-Chairperson
Matthew Knudson, AVEK Representative Alternate (Participating on behalf of Director Parris)
Russ Bryden, Los Angeles County Waterworks District 40 Representative
Brandon Calandri, Landowner Representative
Derek Yurosek, Landowner Representative
Adrienne Lewis Reca, Landowner Representative Alternate

Jim Beck, Hallmark Group – Watermaster Administrator
Jessica Alwan, Hallmark Group – Watermaster Administrator
Joshua Montoya, Hallmark Group – Watermaster Administrator
Phyllis Stanin, Todd Groundwater – Watermaster Engineer
Arden Wells, Todd Groundwater
Craig Parton, Price, Postel & Parma LLP – General Counsel

3) Adoption of the Agenda

A motion was made by Director Calandri, seconded by Director Bryden, and unanimously carried to adopt the agenda.

4) Public comments for non-agenda items

- Pamela Zamrzla provided public comment regarding ongoing litigation with the Watermaster
- General Counsel advised this is a discussion for Closed Session due to ongoing litigation.

5) Consent Agenda

Item Description

a.	Financial Report and Payment of bills through February 28, 2023
b.	Minutes of February 22, 2023, Regular Meeting

A motion was made by Alternate Director Knudson, seconded by Director Calandri, and unanimously carried to adopt the Consent Agenda.

6) Advisory Committee Report

Item Description

a.	Advisory Committee Written Report
----	-----------------------------------

7) Update on Subarea Management Advisory Committee

Administrator staff updated that the Advisory Committee is required to designate two regularly scheduled meetings to discuss topics specific to the subareas of the basin where landowners are able to speak with the Watermaster Engineer and administrative staff. The Advisory Committee established these meeting

dates for their April 2023 and October 2023 regularly scheduled meeting.

8) Administrative Committee Report

Item	Description
a.	Administrative Committee Report

9) Consideration and Possible Action on Hallmark Group's Amendment No. 2

It was discussed amongst the Board that due to a current lack of funds it is not economically responsible to dedicate funds to updating the assessment rate at this time. The Watermaster Administrator reminded stakeholders and the Board this proposal was requested by the Board for Hallmark Group to develop a proposed cost to implement an assessment update.

A motion was made by Director Calandri, seconded by Director Yurosek, and unanimously carried to table Hallmark Group's Amendment No. 2 for now.

10) Update on Delinquent Annual Reports

Report on delinquent annual reports as of March 9, 2023 was presented to the Board and noted will require further update to integrate when the entities became subject to reporting requirements. General Counsel informed the Board in the Rule and Regulations it outlines the requirement of an applicant being up to date on all reporting requirements in order to have their application approved by the Board. Staff will update and present the updated list at the April Board session.

11) Consideration and Possible Action on Problems Encountered in Annual Audit

Watermaster Administrative Staff provided an overview of the annual audit discrepancies that have been recently identified. The Board discussed the proposed cost estimate for time spent to date, and future time to reconcile the unforeseen audit discrepancies. Due to receipt of recent supporting information on the transactions, Watermaster Administrator Staff noted the cost would likely reduce to \$5,900 for the reconciliation efforts.

A motion was made by Director Yurosek, seconded by Director Calandri, and unanimously carried to authorize Watermaster Administrator Staff to engage with the auditor to address discrepancies in previous audit, request compensation from the auditor for Watermaster Administrator Staff's time to resolve the issue, and report back to the April Board meeting for evaluation of time spent on the reconciliation and outcome of engagement with the auditor.

12) Consideration and Possible Action on Transfer application

Item	Resolution No.	Description
a.	R-23-22	Calandri Water Co. to Caruso.

		<p>Director Calandri recused himself and exited the room for the vote and discussion due to relationship to the application. Alternate Director Reca participated in his stead.</p> <p>A motion was made by Director Yurosek, seconded by Alternate Director Knudson, and unanimously carried to approve Resolution No. R-23-22 Transfer Application for Calandri Water Co to Caruso.</p> <p>Motion passed unanimously.</p>
--	--	---

b.	R-23-23	<p>Calandri Farms to Gene Wheeler Farms</p> <p>Director Calandri recused himself and exited the room for the vote and discussion due to relationship to the application. Alternate Director Reca participated in his stead.</p> <p>A motion was made by Alternate Director Knudson, seconded by Director Yurosek, and unanimously carried to approve Resolution No. R-23-23 Transfer Application for Calandri Farms to Gene Wheeler Farms.</p> <p>Motion passed unanimously.</p>
c.	R-23-24	<p>Gorrindo Resourceful to RTS Orchards</p> <p>Director Calandri rejoined the meeting.</p> <p>A motion was made by Director Calandri, seconded by Director Bryden, and unanimously carried to approve Resolution No. R-23-24 Transfer Application for Gorrindo Resourceful to RTS Orchards.</p> <p>Motion passed unanimously.</p>
d.	R-23-25	<p>Richard Selak to RTS Orchards</p> <p>A motion was made by Director Calandri, seconded by Alternate Director Knudson, and unanimously carried to approve Resolution No. R-23-25 Transfer Application for Richard Selak to RTS Orchards.</p> <p>Motion passed unanimously.</p>
e.	R-23-26	<p>Steven Selak to RTS Orchards</p> <p>A motion was made by Alternate Director Knudson, seconded by Director Yurosek, and unanimously carried to approve Resolution No. R-23-26 Transfer Application for Steven Selak to RTS Orchards.</p> <p>Motion passed unanimously.</p>
f.	R-23-27	<p>High Desert Dairy to Craig Van Dam</p> <p>Due to a lack of clarity around the legal authority for this entity to make this transfer, General Counsel advised to table this item until April to allow for further review.</p> <p>A motion was made by Director Yurosek, seconded by Director Bryden, and unanimously carried to table Resolution No. R-23-27 Transfer Application for High Desert Dairy to Craig Van Dam until the April meeting.</p> <p>Motion passed unanimously.</p>
g.	R-23-28	<p>Granite Littlerock to Big Rock Permanent Production Rights and Carry Over Water Transfer</p>

		A motion was made by Alternate Director Knudson, seconded by Director Calandri, and unanimously carried to approve Resolution No. R-23-28 Transfer Application for Granite Littlerock to Big Rock Permanent Production Rights and Carry Over Water Transfer. Motion passed unanimously.
h.	R-23-29	Granite Littlerock to Big Rock Carry Over Water Transfer A motion was made by Director Calandri, seconded by Director Yurosek, and unanimously carried to approve Resolution No. R-23-29 Transfer Application for Granite Littlerock to Big Rock Carry Over Water Transfer. Motion passed unanimously.

13) Administrator's Report

Item	Description
------	-------------

a.	Update on Administration Activities
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14) Watermaster Engineer's Report

Item	Description
------	-------------

a.	Summary of New Production and Qualified Small Pumpers
----	---

b.	Model Update
----	--------------

15) General Counsel's Report

Item	Description
------	-------------

a.	Update on Court Proceedings
----	-----------------------------

16) Board Members Request for Future Agenda Items

- Provide update on delinquent Annual Reports.
- Evaluate future audit processes for AVWM.

17) Closed Session, Conference with Legal Counsel General Counsel's Report

A motion was made by Director Yurosek, seconded by Alternate Director Knudson, and unanimously carried to enter into Closed Session.

Item	Description
------	-------------

a.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Zamrzla Parties
b.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Rancho Sierra Properties, LLC
c.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Antelope Valley Resource Conservation District

A motion was made by Director Yurosek, seconded by Director Calandri, and unanimously carried to exit Closed Session.

18) Closed Session Report

No reportable action.

Director Yurosek noted he was handed a letter from Mr. Moore before entering closed session.

A motion was made by Director Calandri, seconded by Director Bryden, and unanimously carried directing General Counsel to review and respond to the letter received from Bennie Moore dated March 21, 2023.

19) Adjournment

Wednesday, March 22, 2023 at 12:39pm

Jessica Alwan, Secretary

Robert Parris, Chairperson

Date

W A T E R M A S T E R B O A R D

M E M O R A N D U M

DATE: April 20, 2023

TO: ANTELOPE VALLEY WATERMASTER BOARD

FROM: Mr. James Chaisson, Advisory Committee Chair

VIA: Mr. Jim Beck AV Watermaster Administration

RE: *ADVISORY COMMITTEE INPUT FOR APRIL 26, 2023, AV WATERMASTER BOARD (AVWMB) MEETING*

1. Introductions

The Advisory Committee met telephonically on April 19, 2023, at 10:00 AM to discuss action items for the AVWM meeting on April 26, 2023, based on the draft AVWB agenda received on April 13, 2023. Nine (9) of thirteen (13) voting members or their alternates attended the conference line meeting, Watermaster Staff and Twelve (12) member from the public. The Committee discussed and took the following positions on action items before the AVWB.

2. Approval of February and March 2023, meeting minutes.

- The Committee voted to approve the minutes. (9-Yes. 0-No, 0-Abstain)
-

3. Discussion of Potential Watermaster Board Action Items as Shown on the Draft April 26, 2023, Agenda

- The committee had no comments or discussion.

4. **Subarea discussion with Todd Groundwater and The Hallmark Group**

- Joshua Montoya (Hallmark Group) provided background information on the subarea committee.
- Arden (Todd Groundwater) mentioned that the analysis for the subareas will be available in the upcoming annual report.

5. **Consideration and possible action on Transfer Application**

a. R-23-27 High Dessert Dairy to Craig Van Dam

- There was a request from Gary VanDam to table the application. No vote was taken.

b. R-23-30 AV Water Trust to Perini

- The Committee discussed and recommended approval of the application. (9-Yes, 0-No, 0-Abstain)

c. R-23-31 Caruso to Perini

- The Committee discussed and recommended approval of the application. (9-Yes, 0-No, 0-Abstain)

d. R-23-32 PWD to LCID

- The Committee discussed and recommended approval of the application. (9-Yes, 0-No, 0-Abstain)

6. Consideration and Possible Action on New Production Application

a. R-23-04 Barrel Springs (120 AF)

- The Committee discussed and had a lengthy discussion on the application. The committee could not decide. It was recommended that Committee members and other parties voice their concerns at the Watermaster meeting. There was a motion and a second and a vote taken. (3-Yes, 1-No, 5-Abstain)

7. Consideration and Possible Action on Replacement Well Application

a. R-23-33 Bolthouse Properties, LLC

b. R-23-34 Bolthouse Properties, LLC

- The Committee discussed and recommended approval of the applications together. (9-Yes, 0-No, 0-Abstain)

8. Future Agenda Item Requested by Committee Members

- The Committee would like Watermaster to send out an RFP for the 2024 Watermaster Administrator

9. Next Meeting

- May 17, 2023, 10AM

Update on Delinquent Annual Reports

Producer Name	2016 Production (AFY)	2017 Production (AFY)	2018 Production (AFY)	2019 Production (AFY)	2020 Production (AFY)	2021 Production (AFY)	2022 Production (AFY)
60th Street Association Water System							Not Reported
Averydale Mutual Water Company							Not Reported
Hernandez: Luis Hernandez (Bought Property from Balman: Gene Balman 2015)				Not Reported	Not Reported	Not Reported	Not Reported
Baxter Mutual Water Company							Not Reported
Terrazas: Gloria (Bought property from Benz: Mark W. and Nancy Benz)							Not Reported
Big Rock Mutual Water Company	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Bridwell: James and Elizabeth Bridwell							Not Reported
Bitner Trust, Glen Bitner, Trustee		Not Reported			Not Reported	Not Reported	Not Reported
Pool: Noel Pool (Bought property from Cardile: Sal and Connie Cardile 2015)	Not Reported	Not Reported			Not Reported	Not Reported	Not Reported
Close: C. Louise R. Close Living Trust	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Copa De Oro Land Company					Not Reported	Not Reported	Not Reported
Dickey: Randall and Billie Dickey						Not Reported	Not Reported
eSolar Inc.; Sierra Sun Tower, LLC	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
eSolar Inc.; Tumbleweed Suntower LLC	Not Reported	Not Reported					Not Reported
Evans: Lawrence Dean Evans, Jr. and Susan Evans Pedersen		Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Findley: Ruth C. Findley							Not Reported
Griffin: Laura Griffin Trustees of the Family Bypass Trust (split production rights Oct 2021)							Not Reported
Healy: Jane Healy and Healy Enterprises Inc. (transferred PR to AVEK January 2022)						Not Reported	Not Reported
Land Projects Mutual Water Company							Not Reported
Radiacast (Received Transfer via Merger 2027)							Not Reported
Llano Mutual Water Company							Not Reported
City of Los Angeles, Department of Airports							Not Reported
Miner: Richard Miner (Gold PR to RCSD January 2022)							Not Reported
New Golden Sands Investments (Bought Property from Miracle Improvement Corporation dba Golden Sands Mobile Home Park/Trailer Park)							Not Reported
Munz: 2014 Revocable Trust, Terry A. & Kathleen M. Munz							Not Reported
Northrop Grumman Systems Corporation							Not Reported
NRG Solar Alpine, LLC (Oasis Solar/Clearway Energy)							Not Reported
Reca: John and Adrienne Reca							Not Reported
Richter: Suzanne J. Richter							Not Reported
Rose Villa Apartments	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
SGS Antelope Valley Development, LLC	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Siebert: Jeffrey and Nancee Siebert							Not Reported
Herbert, Michael (Received a 1 AFY Transfer from Seibert and 4 AFY Transfer from Seibert)							Not Reported
Sonrise Ranch, LLC							Not Reported
Southern California Edison Company							Not Reported
Golden Fields Solar LLC (purchased Triple M Property Co. 2019)						Not Reported	Not Reported

Producer Name	2016 Production (AFY)	2017 Production (AFY)	2018 Production (AFY)	2019 Production (AFY)	2020 Production (AFY)	2021 Production (AFY)	2022 Production (AFY)
Turk Trust dated December 16, 1998							Not Reported
Borax: U.S. Borax							Not Reported
Van Dam Family Trust - 1996; High Desert Dairy (2020 Transfer)							Not Reported
Van Dam, Gary and Sonrise Ranch (2020)							Not Reported
WAGAS Land Company LLC	Not Reported			Not Reported	Not Reported	Not Reported	Not Reported
Graves: Thomas Graves (bought Weatherbie property 2019)					Not Reported	Not Reported	Not Reported
California Water Services Company							Not Reported
Department of Water Resources	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Department of Parks and Recreation	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Department of Transportation							Not Reported
Department of Corrections and Rehabilitation	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Highway Patrol	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Department of Military	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Reesdale Mutual Water Company	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Clan Keith Real Estate Investments, LLC dba Leisure Lake Mobile Home Estates	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
LV Ritter Ranch, LLC.							Not Reported
Phelan Piron Hills CSD							Not Reported
A.V. Materials	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Antelope Valley Water Company	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Edgemont Acres MWC	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Godde: Forrest Godde	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Harter: Scott Harter	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Warnack Trust	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Ajzip, Angela (May 2022)							Not Reported
Ajzip, Bogarth (May 2021)							Not Reported
Allegre, Juan & Ceidy (March 2018)				Not Reported	Not Reported	Not Reported	Not Reported
Ambriz, Juan (December 2018)					Not Reported	Not Reported	Not Reported
Anaya, Bobby (October 2020)							Not Reported
Anchetta, Nathaniel (April 2020)							Not Reported
Avila, Almondo (February 2022)							Not Reported
Badawi, Abdelsalam (February 2022)							Not Reported
Bousquet, Maria (August 2020)							Not Reported
Castillo, Juan (March 2018)				Not Reported	Not Reported	Not Reported	Not Reported
CERES Enterprises (September 2020)							Not Reported
Chunhui, Li (January 2022)							Not Reported
Collins, Raymond & Maryam (January 2019)							Not Reported
Connelly, Myles (January 2019)				Not Reported	Not Reported	Not Reported	Not Reported
Cooper, Ronald* (March 2018)				Not Reported	Not Reported	Not Reported	Not Reported

Producer Name	2016 Production (AFY)	2017 Production (AFY)	2018 Production (AFY)	2019 Production (AFY)	2020 Production (AFY)	2021 Production (AFY)	2022 Production (AFY)
Copart, Inc. (June 2020)							Not Reported
Daniyelov, Archil (February 2021)						Not Reported	Not Reported
Davison, Larry (October 2020)						Not Reported	Not Reported
Del Carmen Vala, Maria (July 2018)				Not Reported	Not Reported	Not Reported	Not Reported
Esparza Jimenez, David - Casa Grande Industries (June 2018)	Not Reported	Not Reported	Not Reported			Not Reported	Not Reported
Espinoza, Leticia (April 2019)						Not Reported	Not Reported
Estrada, Jesus (September 2019)							Not Reported
Estrada, Juan & Mayra (April 2020)						Not Reported	Not Reported
Fields, Daryl (August 2020)							Not Reported
Fong, Alma (April 2018)				Not Reported		Not Reported	Not Reported
French, Christopher & Nancy * (March 2018)							Not Reported
Garcia, Ervin and Carolina Espina (June 2019)					Not Reported	Not Reported	Not Reported
Garcia, Leonel (December 2020)						Not Reported	Not Reported
Hernandez, Vladimir (August 2020)						Not Reported	Not Reported
Hounanian, Masir (June 2019)				Not Reported	Not Reported	Not Reported	Not Reported
Jeffreias, John (July 2020)						Not Reported	Not Reported
Joha, Ilias (July 2020)						Not Reported	Not Reported
Juniper Hills Land Conservation Trust (May 2019)					Not Reported	Not Reported	Not Reported
Korn, Carrie *				Not Reported	Not Reported	Not Reported	Not Reported
La Cosepa (Christ of the Desert)						Not Reported	Not Reported
Love's Travel Stores of California (December 2021)							Not Reported
Magana, Paul - Woodstone Construction (March 2018)			Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Mawla +65 Street LLC (July 2020)						Not Reported	Not Reported
Mendoza, Jesus (May 2021)						Not Reported	Not Reported
Meng, Sifan (April 2020)					Not Reported	Not Reported	Not Reported
Ming, Lin (April 2019)				Not Reported	Not Reported	Not Reported	Not Reported
Navas, Rudy (August 2020)						Not Reported	Not Reported
Nuno, Juan (December 2021)							Not Reported
Odango, James (December 2020)						Not Reported	Not Reported
Ormonde, Antonio - Triple Livestock (September 2019)					Not Reported	Not Reported	Not Reported
Onsepyan, Andrey (May 2019)						Not Reported	Not Reported
Park, Young (August 2018)				Not Reported		Not Reported	Not Reported
Perez, Espiridon & Yvonne (March 2018)							Not Reported
Plute Mutual Water Company (Defaulted Party) (Approved New Production April 2020)							Not Reported
Rodriguez, Erik (March 2019)					Not Reported	Not Reported	Not Reported
Rodriguez, Jose and Mayra (July 2020)						Not Reported	Not Reported
Saso, Hector and Gutierrez, Magda (May 2021)						Not Reported	Not Reported

Producer Name	2016 Production (AFY)	2017 Production (AFY)	2018 Production (AFY)	2019 Production (AFY)	2020 Production (AFY)	2021 Production (AFY)	2022 Production (AFY)
Saso, Hector and Gutierrez, Magda (May 2021)						Not Reported	Not Reported
So Cal Properties Plus, LLC (August 2020)						Not Reported	Not Reported
Tarzana Treatment Center (February 2021)						Not Reported	Not Reported
Torres, Martin (January 2020)					Not Reported	Not Reported	Not Reported
Trang, Srey (May 2019)						Not Reported	Not Reported
Ugonwa, Bonaventure (June 2019)					Not Reported	Not Reported	Not Reported
Webster, Anthony*				Not Reported	Not Reported	Not Reported	Not Reported
Jimenez, Emmanuel (Purchased property from Witmeyer Trust (Randy Sharp)				Not Reported	Not Reported	Not Reported	Not Reported
Zaghian, Roben (May 2019)					Not Reported	Not Reported	Not Reported
Zeinali, Shawn (March 2021)					Not Reported	Not Reported	Not Reported
Felder: William Felder					Not Reported	Not Reported	Not Reported
Del Sur Gardens, LLC (RV Park)							Not Reported
Manshad LLC (by succession)							Not Reported
Rancho Sierra Properties (Golf Course) Well is not a small pumping well zero production right							Not Reported
Ritter: Mark Ritter (gold property 2018)	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Parvaneh Kadivar						Not Reported	Not Reported
Zamrda: Johnny Zamrda							Not Reported
Tapia Brothers Farms	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported	Not Reported
Basner, William						Not Reported	Not Reported
Wilsons Gardens Mutual Water Company (Defaulted)						Not Reported	Not Reported
Joshua Acres Mutual Water Company (Defaulted Party) Pending Approved New Production	Not Reported	Not Reported			Not Reported	Not Reported	Not Reported
							Not Reported

Update on Annual Audit

W A T E R M A S T E R B O A R D

M E M O R A N D U M

DATE: April 17, 2023

TO: Antelope Valley Watermaster Board

FROM: Joshua Montoya and Jacqueline Harris, CPA, Hallmark Group

SUBJECT: Update on Annual Audit

The Hallmark Group identified discrepancies between the 2021 audit report and the books of record as presented to the Board at the March 22, 2023 regular Board meeting. The Board directed staff to work with Palmdale Water District to identify the variances between the audit report and the books of record. The Board also requested staff to engage with the auditor to address reported balances in the 2021 audit report and to request that Fedak & Brown reimburse AVWM for Watermaster administrator staff's time to resolve the issues.

Initially there were two primary issues identified (a) the restricted transactions in the audit report were misstated and, (b) transactions were recorded in the books of record after the audit report was issued for the prior year ended December 31, 2021. With respect to issue (b), Palmdale Water District identified the transactions recorded in the prior closed audited period and staff made the appropriate corrections in the books of record.

Subsequent to the March Board meeting, Hallmark Group identified additional errors in the 2021 audited financial statements that are addressed below. Staff has communicated with Jonathon Abadesco, audit partner of Fedak & Brown (F&B), regarding the Board's request to seek reimbursement for Hallmark's time attributable to identifying and responding to the 2021 audit discrepancies. Mr. Abadesco firmly communicated that F&B has no responsibility for undiscovered misstatements, that F&B's procedures are based on sampling, that the audited financial statements are the responsibility of AVWM management and that AVWM management approved the audit report prior to issuance. Mr. Abadesco refused to concede to any level of reimbursement for misstatements. Staff requested to speak with a managing partner and Mr. Abadesco informed he would request a meeting with Christopher Brown, F&B managing partner. Staff has not received a response from Mr. Brown as of April 13, 2023. Staff's efforts spent on discovery, communications, recalculations, and reconciliations as of April 13, 2023, totals \$5,568.75.

1. Restricted Cash, A/R and Net Position – Restatements

Restricted transactions are those related to replacement water assessments and replacement water purchases. Staff has identified that restricted balances for cash, net position, and accounts receivable have been misstated in the audited financial statements from 2018 to 2021.

With respect to the 2021 audited financial statements, restricted balances have not been properly classified as shown below in the Statement of Net Position. The audit column indicates balances reported in the audited financial statements and the restated column indicates staff's proposed restatements; the change column shows the difference between the audit and restated columns.

	12/31/2021		
	Audit	Restated	Change
Cash and Cash Equivalents, Unrestricted	\$ 1,134,403	\$ 185,890	\$ (948,513)
Cash and Cash Equivalents, Restricted	\$ 841,500	\$ 1,790,013	\$ 948,513
Accounts Receivable, Unrestricted	\$ -	\$ 156,744	\$ 156,744
Accounts Receivable, Restricted	\$ 1,059,221	\$ 546,207	\$ (513,014)
Accounts Payable and Accrued Expenses	\$ 571,956	\$ 571,956	\$ -
Net Position, Unrestricted	\$ 562,447	\$ (229,382)	\$ (791,829)
Net Position, Restricted	\$ 1,900,721	\$ 2,336,280	\$ 435,559

In addition to the reclassifications of restricted transactions above, transactions noted in items 2 and 3 below were not properly accounted for in the 2021 audited financial statements. The effects of these transactions have also been accounted for in the restated balances above.

2. Auditor's Adjustment for Replacement Water Purchase

F&B incorrectly made an adjustment as of December 31, 2021, to accrue a February 2022 replacement water purchase totaling \$482,808.71 in 2021. Pursuant to the Judgement Rules and Regulations, this was a 2022 transaction. Staff will need to coordinate with F&B to correct this misstatement.

3. Fixed Fee Revenue

December 31, 2021 audited revenue balance is overstated by \$356,270.16. A portion of the 2022 Fixed Fee Assessments was incorrectly recorded in the general ledger with a December 15, 2021 date; these transactions should have been recorded in January 2022. The auditors failed to identify the material revenue variance. Staff will need to coordinate with F&B to correct this misstatement.

**Update on Amendment to the Rules and Regulations Repayment of Delinquent
RWA's**



PRICE, POSTEL & PARMA LLP

M E M O R A N D U M

TO: Antelope Valley Watermaster Board DATE: February 7, 2023

FROM: Craig A. Parton FILE NO.: 23641-1
General Counsel to the Watermaster

SUBJECT: Delinquent Replacement Water Assessment Rates

As the Watermaster has sought to collect delinquent Replacement Water Assessments (“RWAs”) from various Parties, it has become apparent that, due to the time involved in the legal process, the Watermaster may be unable to purchase all the Replacement Water necessary to replace the Groundwater Produced by such delinquent Parties in excess of their Production Right. This problem arises from the gap in time between: (1) the date the delinquent Party is invoiced for RWAs, calculated using the RWA rate for that year; and (2) the date the Watermaster eventually collects the RWA payment through the legal process, by which time the RWA rate has usually increased. This delay in collecting delinquent RWAs means that cash payments at the RWA rate set forth in the original invoice are insufficient to purchase all the Replacement Water necessary to satisfy the delinquent Party’s Replacement Obligations.

In order to rectify this problem moving forward, General Counsel recommends establishing a policy that delinquent RWAs shall be due and payable at a variable rate equal to the RWA rate in-effect on the date such delinquent amounts are actually paid to the Watermaster. This is authorized by the Judgment to the extent an RWA payment should align with the actual cost to the Watermaster of Replacement Water, which changes depending on the year in which the Replacement Water is purchased. (*See Judgment ¶ 9.2* (the amount of RWAs shall be the amount of excess Production “multiplied by the cost to the Watermaster of Replacement Water, including any Watermaster spreading costs”).) This interpretation is consistent with the purpose and intent of the Judgment which is to protect the health of the Basin by replacing every acre-foot of Groundwater Produced in excess of a Party’s Production Right.

In order to effectuate this policy, General Counsel recommends adding a new Section 11.g to the Rules and Regulations (“R&Rs”) as follows:

“g. Delinquent Replacement Water Assessments shall be due and payable at the Replacement Water Assessment Rate in effect on the date the Watermaster receives such delinquent payment, notwithstanding a lower Replacement Water Assessment rate stated in the original invoice.”

General Counsel requests that the Board review and provide comments on the above proposed addition to the R&Rs. Once the language, as the same may be revised, is acceptable, the Board should direct the Watermaster Administrator to post this proposed addition to the R&Rs online for a 30-day public review period ahead of a hearing on adoption at the next regular Board meeting.

**Update on Amendment to the Rules and Regulations Placing Limitations on New
Production**



PRICE, POSTEL & PARMA LLP

MEMORANDUM

TO: Antelope Valley Watermaster Board DATE: April 26, 2023

FROM: Craig A. Parton FILE NO.: 23641-1
General Counsel to the Watermaster

SUBJECT: Additional Limitations on New Production Rights

At its January 2023 regular meeting, the Watermaster Board asked whether and to what extent approval of New Production applications may be conditioned upon the availability of sufficient Imported Water to replace such Production in any given year. Specifically, the Watermaster Board expressed concern that New Production applicants should be made aware that the right to New Production is not guaranteed, and may be reduced or even eliminated in the event there is insufficient Imported Water to replace all New Production. As discussed below, the terms of the Judgment suggest that such a limitation on New Production is appropriate and in some circumstances may be necessary to avoid Material Injury. Although not required for the Watermaster to enforce such a limitation, General Counsel recommends an amendment to the Rules and Regulations (“R&Rs”) to add new Section 14.n.viii as set forth herein.

“New Production” is defined as “[a]ny Production of Groundwater from the Basin not of right under this Judgment, as of the date of this Judgment.” (§ 3.5.20.) Any New Production “must comply with the New Production Application Procedure specified in Paragraph 18.5.13.” (§ 9.2.2.) “[T]he Watermaster, as part of the New Production Application Procedure, has the authority to determine whether [an applicant] has established that the proposed New Production is a reasonable and beneficial use in the context of other existing uses of Groundwater and then-current Basin conditions,” and “the Watermaster’s determinations as to the approval, scope, nature and priority of any New Production is reasonably necessary to the promotion of the State’s interest in fostering the most reasonable and beneficial use of its scarce water resources.” (*Ibid.*) Each New Production applicant must agree “to pay the applicable Replacement Water Assessment [“RWA”] for any New Production.” (§ 18.5.13.1.11.) “The Watermaster Engineer shall not make recommendation for approval of an application to commence New Production of Groundwater unless the Watermaster Engineer finds, after considering all the facts and circumstances including any requirement that the applicant pay a [RWA] required by this Judgment or determined by the Watermaster Engineer to be required under the circumstances, that such New Production will not cause Material Injury.” (§ 18.5.13.2.) The Engineer may only waive payment of RWAs for New Production applications that are limited to domestic use for one single-family household, so long as the Engineer determines that such New Production is *de*

Memo to: Antelope Valley Watermaster Board
 Re: Additional Limitations on New Production Rights
 April 26, 2023
 Page 2

minimis. (*Ibid.*)¹ Finally, in limited circumstances, the R&Rs allow some New Production to be satisfied by a transfer of water rights in lieu of payment of RWAs. (R&Rs § 13.c.vii.)

Under the foregoing provisions of the Judgment, all but a very limited category of New Production must be offset by payment of RWAs in order to avoid Material Injury, subject to an opportunity to make an in-kind payment of RWAs “on a special, limited basis.” It is therefore inherent in the Judgment that the Watermaster has the authority to reduce or rescind previously approved New Production applications in the event there is insufficient Imported Water to replace all such Production.

On September 20, 2021, the Court approved an amendment to the R&Rs adding new Section 14.n which sets forth various limitations on New Production. (*See* attached General Counsel Memorandum dated June 30, 2021.) The provisions of Section 14.n were made applicable retroactively to all New Production applications approved prior to the date of the amendment. (Current R&Rs § 14.n.viii.) In order to document and clarify the above-stated limitations on New Production, General Counsel recommends amending the R&Rs to add new Section 14.n.viii as follows (current Sections 14.n.viii and 14.n.ix will be re-numbered 14.n.ix and 14.n.x, respectively):

“vii. Contingent Upon Availability of Imported Water. Notwithstanding anything to the contrary in these Rules and Regulations or the Watermaster’s approval of the New Production application, in the event there is insufficient Imported Water available to replace some or all of the Party’s New Production, the Watermaster may, in the Watermaster’s sole discretion, amend or revoke its approval of the Party’s New Production application in order to ensure that all New Production is replaced with Imported Water, consistent with the intent of the Judgment and to protect the health of the Basin.”

In addition to adding the above amendment to the R&Rs, General Counsel recommends amending the New Production Application (Form 4) by adding the following sentence to the end of the applicant declaration on page 2 of 3 under SIGNATURES:

“I understand and agree that the Watermaster’s approval of New Production rights, if any, is not permanent, and may be amended or revoked, at the Watermaster’s sole discretion, consistent with the Rules and Regulations and the Judgment, in the event there is insufficient Imported Water to replace some or all of the approved New Production.”

The Watermaster Engineer supports the revisions to the R&Rs, but has noted that the Board could consider making an exception for New Production that provides the sole source of drinking water supply for a single-family household. As noted above, domestic use for a single-family household is the only circumstance in which the Judgment allows the Watermaster Engineer to consider New Production as *de minimis*. Specifically, in the event of a future

¹ The Watermaster Engineer currently requires all New Production applicants to pay RWAs, including New Production for domestic use by a single-family household, even though such New Production could be deemed *de minimis*. This protects the Basin from cumulative impacts from overdraft and, in turn, Material Injury.

Memo to: Antelope Valley Watermaster Board
Re: Additional Limitations on New Production Rights
April 26, 2023
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shortage of Imported Water, the Board could decide to allow domestic wells serving a single family household to continue Producing Groundwater contingent upon payment of RWAs so that the Watermaster can acquire Replacement Water when it becomes available to make up the deficit. With proper accounting and management, Material Injury could be avoided. This consideration recognizes the relatively small amount of production associated with domestic wells and the fact that overdraft conditions are evaluated over an average hydrologic period rather than on a single dry-year basis.

During the Board's consideration of these proposed amendments at its February 2023 regular meeting, Dwayne Chisam questioned whether the amendments conflict with AVEK's enabling act, specifically the requirement that AVEK distribute and apportion water purchased from the State of California or obtained from any other source as equitably as possible. (*See* AVEK Agency Act § 98-61.1.) Watermaster General Counsel discussed this question with AVEK representatives and does not believe there is a conflict between AVEK's enabling act and the proposed amendments to the R&Rs. The Watermaster's contingent approval of New Production will have no impact on AVEK's ability to distribute and apportion water it acquires from the State of California or elsewhere pursuant to its enabling act.

The Watermaster General Counsel requests that the Board review and provide comments on the above proposed addition to the R&Rs and New Production Application. Once the language, as the same may be revised, is acceptable, the Board should direct the Watermaster Administrator to post this proposed addition to the R&Rs online for a 30-day public review period ahead of a hearing on adoption at the next regular Board meeting.

Resolution No. R-23-27

Transfer – High Desert Dairy to Craig Van Dam

March 21, 2023

AV Watermaster Board of Directors

Craig Parton, Price, Postel & Parma LLP

Phyllis Stanin, Todd Groundwater

Jim Beck, Hallmark Group

Delivery via email 3/21/23

RE: March 22,2023 Agenda Item 12.f. R 23-27.

500 (AF) Transfer-High Desert Dairy LLC to Craig and Marta Van Dam

Dear AV Watermaster Board of Directors:

I, Gary Van Dam, equal member of High Desert Dairy LLC, am rejecting the validity of the above mentioned transfer. The requested transfer is in direct conflict with several Articles in the High Desert Dairy LLC Operating Agreement. There is no written agreement for the distribution of any water rights to be distributed to any Members of the High Desert Dairy LLC. The gift of 500 Acre Feet from High Desert Dairy LLC has not been discussed at a Noticed or Regular Meeting and has been hidden from Gary Van Dam. Therefore, this transfer is not valid. Craig Van Dam and Dean Van Dam are misrepresenting their right and authority to speak on behalf of High Desert Dairy LLC in the distribution of a major asset of the corporation.

The Operating Agreement states:

3.2 Company Powers – The Company has the power to do any and all acts reasonably necessary, appropriate, proper, advisable, incidental or convenient to or for the furtherance of the purposes and business described above and **the Company's protection and benefit.**

5.1(c) Allocations and Distributions – Each decision as to the timing, form and amount of distributions must be made by all the Members.

6.1(c) Management – Each of the parties to the Agreement covenants with the others that it will at all times execute documents, consents and other instruments and act and cast, or cause or direct the casting of votes, and cause its nominee or nominees to so act and/or vote, to the extent permitted by law, as may be necessary or desirable to give full and proper effect to all the terms and provisions and the intentions of this Agreement and in particular, without limiting the generality of the foregoing, to enable any transfers of Membership Interests permitted or required under this Agreement to be made. Each of the parties to this Agreement agrees that violation on its part of this covenant entitles any of the Members to the remedy of specific performance and to an injunction from any court of competent jurisdiction to prevent any breach of this covenant or any other covenant contained in this Agreement and to restrain any further violation of the covenant.

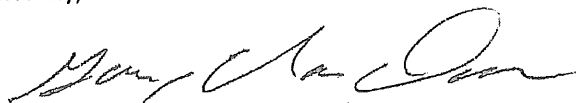
6.4 Other Matters Concerning Members — Each Member severally represents and warrants to each other Member and to the Company that it is acquiring its interest in the Company for its own account for investment and not with a view to the distribution of it or with any present intention of distributing the interest, in each case, in violation of applicable securities laws.

For the above reasons, I am requesting a Continuance.

In the event this transfer is approved, AV Watermaster will assume the responsibility for a fraudulent transfer. AV Watermaster will be financially liable for the Value of the 500 Acre Feet, any Carryover Water and/or Pumped Water due to transferring a Corporate Asset without proper documentation and approvals. This will also include the loss of production of 500 acres of Dairy feed for the purpose of the High Desert Dairy LLC.

The Watermaster should not be put in the position to judge these documents.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Van Dam", written in a cursive style.

Gary Van Dam

High Desert Dairy LLC - Member

April 14, 2023

Craig A. Parton
Price, Postel & Parma LLP
200 E. Carrillo Street, Suite 400
Santa Barbara, CA 93101

**Re: Antelope Valley Watermaster Transfer of 500 Acre Feet between HIGH
DESERT DAIRY, LLC and CRAIG VAN DAM**

Dear Mr. Parton:

The remaining members of High Desert Dairy, LLC, a California limited liability company, (also the "Company") have asked that I respond to the letter delivered to the Antelope Valley Watermaster by member Gary Van Dam relative to the pending Transfer Request of 500 acre feet by High Desert Dairy, LLC, to Craig Van Dam. I am in receipt of Gary Van Dam's letter to the Antelope Valley Watermaster of March 21, 2023, which we understand prompted the tabling of any decision on the transfer request. This letter is intended to address the points raised by Gary Van Dam in said letter.

As a matter of history, on February 4, 2020, all of the members of High Desert Dairy, LLC, met at the accountancy offices of Genske, Mulder & Company, LLP, in Ontario, California. At the meeting, the members discussed at length the return of capital of various assets of High Desert Dairy, LLC, to the owners along with the continued operations of the Company. The resolution of that meeting, in part, included that Craig Van Dam was to receive the 500 acre feet of water rights from High Desert Dairy, LLC. Additionally, on that February 4, 2020, meeting, Craig Van Dam received a transfer of real property in Imperial County executed by Craig Van Dam and Dean Van Dam (I note said transfer has been conveyed and recorded). From that meeting other assets, including cattle, were transferred to Dean Van Dam. Thus, the pending transfer of the 500 acre feet to Craig Van Dam was approved unanimously at this meeting in the presence of High Desert Dairy, LLC's accountant Chris Garnier.

While Gary Van Dam has now voiced his objection to said return of capital, pursuant to the Operating Agreement of the company, which was previously supplied to the Antelope Valley Watermaster, his new objection is now moot. Contrary to Gary Van Dam's assertion, the transfer of the pending water rights to Craig Van Dam is not a distribution of profit (which admittedly requires unanimous consent of the members pursuant to Section 5.1 of the Operating Agreement of the Company) but a return of capital. Pursuant to Section 4.4 of the Operating Agreement of High Desert Dairy, LLC, a return of capital can only be done with the consent of a

Majority of the Members. With each of the three members of the LLC carrying a one-third (1/3rd) equal membership interest, the distribution to Craig Van Dam of the pending water transfer only requires the vote of two members. Hence, the signatures of Craig Van Dam and Dean Van Dam to the pending water transfer are all that is needed to convey the water rights before the Antelope Valley Watermaster.

Section 6.1(b) of the Operating Agreement of the Company provides that "the vote or consent of the Members means the vote or consent of holders of a majority of the Membership Interest. Any Member exercising management powers or responsibilities is deemed to be a manager..." As such, the signatures and consents of two of the three members of the Company provides the Company's consent to the application to transfer the water from the Company to Craig Van Dam.

For the aforementioned reasons, the transfer from High Desert Dairy, LLC, to Craig Van Dam of 500 acre feet should be approved by the Antelope Valley Watermaster.

Should you have any further questions or concerns, please do not hesitate to contact my office.

Very truly yours,

DERRYBERRY & ASSOCIATES LLP

By: _____

R. STEVEN DERRYBERRY

Attorney at Law

RESOLUTION NO. R-23-27

**APPROVING APPLICATIONS FOR TRANSFERS PURSUANT TO THE TERMS OF
THE JUDGMENT; ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment ("Judgment"), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for transfers is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that applications for transfers be denied or approved and that approval may be pursuant to certain conditions; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings that all conditions for transfers under the Judgment and the Rules and Regulations have been satisfied, and that no Material Injury will result from the proposed transfers; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the applications listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for transfers listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-27 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held April 26, 2023, in Palmdale, California.

Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

**Exhibit A Attachment to
Resolution No. R-23-27
Approving Applications for Transfers
Pursuant to the Terms of the Judgment**

Original Producer	Transferee	Type of Transfer	Amount	Original Parcel(s) (APN#)	Parcels Water Transferred to (APN#)
High Desert Dairy LLC	Craig and Marta Van Dam	Permanent Production Right	500 (AF)	3307-014-019; 3382-017-015; 3382-018-026	3384-001-001; 2284-001-003

March 6, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: High Desert Dairy, LLC, to Craig and Marta Van Dam

Watermaster Board:

High Desert Dairy, LLC, (High Desert Dairy) would like to transfer 500 acre-feet (AF) of permanent Production Rights to Craig and Marta Van Dam. This transfer is a distribution from the company, High Desert Dairy, to an individual member of the company, Craig Van Dam.

High Desert Dairy has 1,817 AFY in permanent Production Rights, which it received from the *Van Dam Family Trust – 1996/High Desert Dairy* split of rights in 2020. In total, 3,215 AFY of permanent production rights were split between four parties, and the Rampdown was split proportionally between the parties. This split of rights, which also transferred 466 AFY to Craig and Marta Van Dam, is detailed below.

Transferor	Transferee	Type of Transfer	Amount (AFY)	Original Parcel(s) (APN#)	Parcels Water Transferred to (APN#)	Type of Permanent Right Transferred	Voting Rights after Transfer
Van Dam Family Trust - 1996; High Desert Dairy	High Desert Dairy LLC	Split up Production Rights (3,215 AF total)	1817	3307-014-019 3382-017-015 3382-018-026 3307-014-019 3382-017-015 3382-018-026 3382-011-009 3382-011-010 3386-028-012 3386-028-013 3386-028-014 3386-028-015 3220-006-097 3302-024-003 3302-031-003 3302-024-903	3307-014-019 3382-017-015 3382-018-026	Exhibit 4 Production Right	No Change- Exhibit 4
	Gary Van Dam (Including Sonrise Ranch)		466		3307-014-019 3382-017-015 3382-018-026 3382-011-009 3382-011-010 3386-028-012 3386-028-013 3386-028-014 3386-028-015	Exhibit 4 Production Right	No Change- Exhibit 4
	Craig & Marta Van Dam		466		3220-006-097	Exhibit 4 Production Right	No Change- Exhibit 4
	Nick & Janet Van Dam		466		3302-024-003 3302-031-003 3302-024-903	Exhibit 4 Production Right	No Change- Exhibit 4

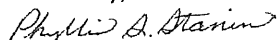
Craig and Marta Van Dam have 946 AF of Permanent Production Rights, including rights transferred in the split of rights discussed above.¹

High Desert Dairy has six wells on the three parcels in the Central Antelope Subarea, shown in yellow on **Figure 1**. Annual production decreased from 6,266 AF in 2017 to 2,232.18 AF in 2021. Craig and Marta Van Dam own two agricultural wells on the two parcels shown in purple in **Figure 1**. Their parcels are also in the Central Antelope Subarea and about 1.4 miles west of the High Desert Dairy parcels. Their annual production has ranged from 0 to 158 AFY since 2018. Both parties produce water for agricultural use.

Hydrographs in **Figure 2** show that water levels are, for the most part, steady near the parcels for both Parties. USGS Well #80301 shows declining water levels in the late 1990s to the mid-2000s with relatively stable water levels since 2018. Water levels in the USGS Well #01301, adjacent to the High Desert Dairy parcels show increasing water levels. In general, water levels near Craig and Marta Van Dam's parcels have been stable since at least 2016.

This transfer results in a shift of location of water production within the same Subarea where water levels are generally stable. Without an increase in overall production in the area, no impacts are anticipated to local water levels, or groundwater in storage. In addition, no impacts are expected to water quality, local recharge, or inelastic land subsidence. Based on the information provided, Todd Groundwater finds the potential for Material Injury as defined in the Judgment negligible.

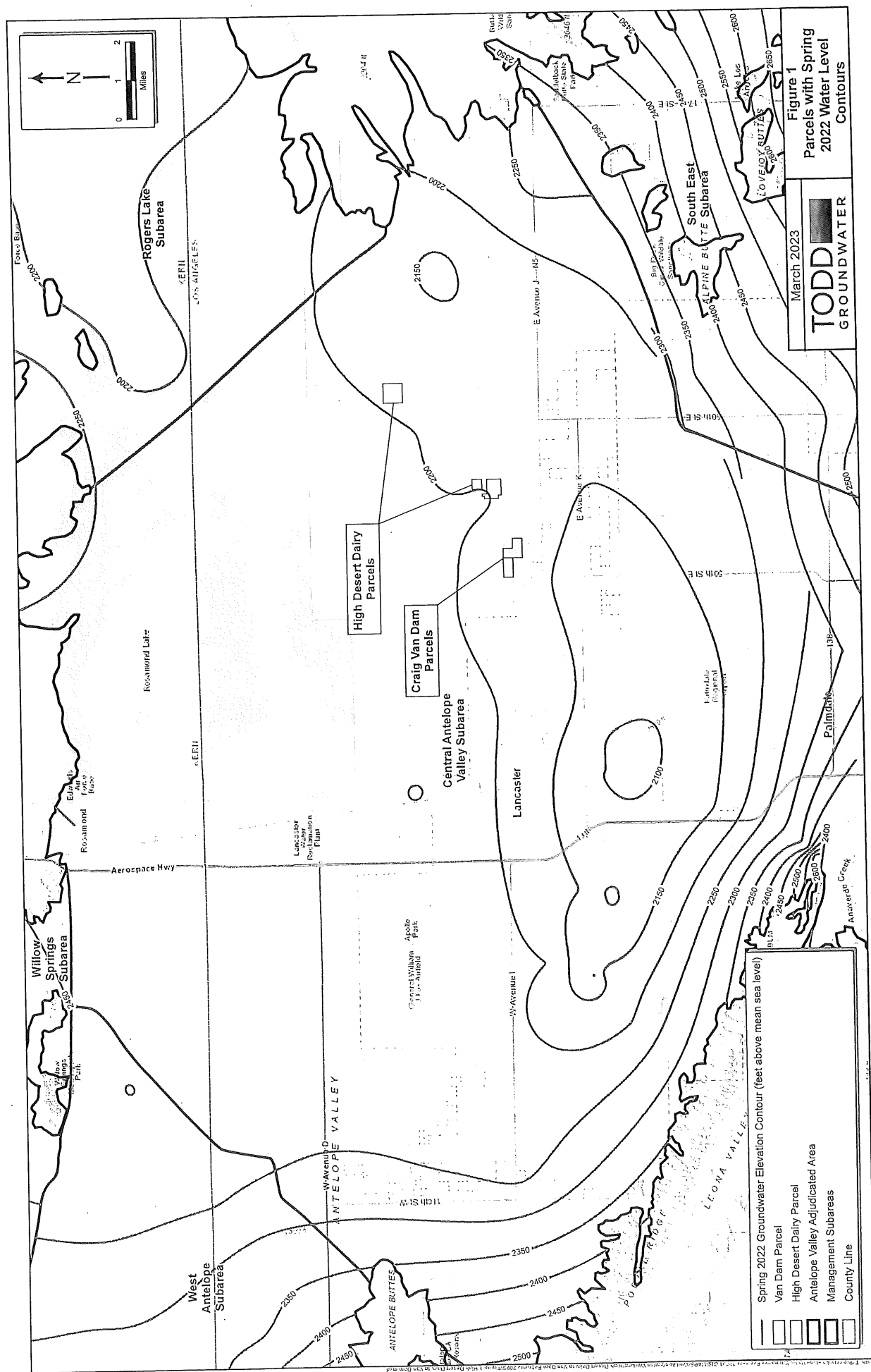
Sincerely,

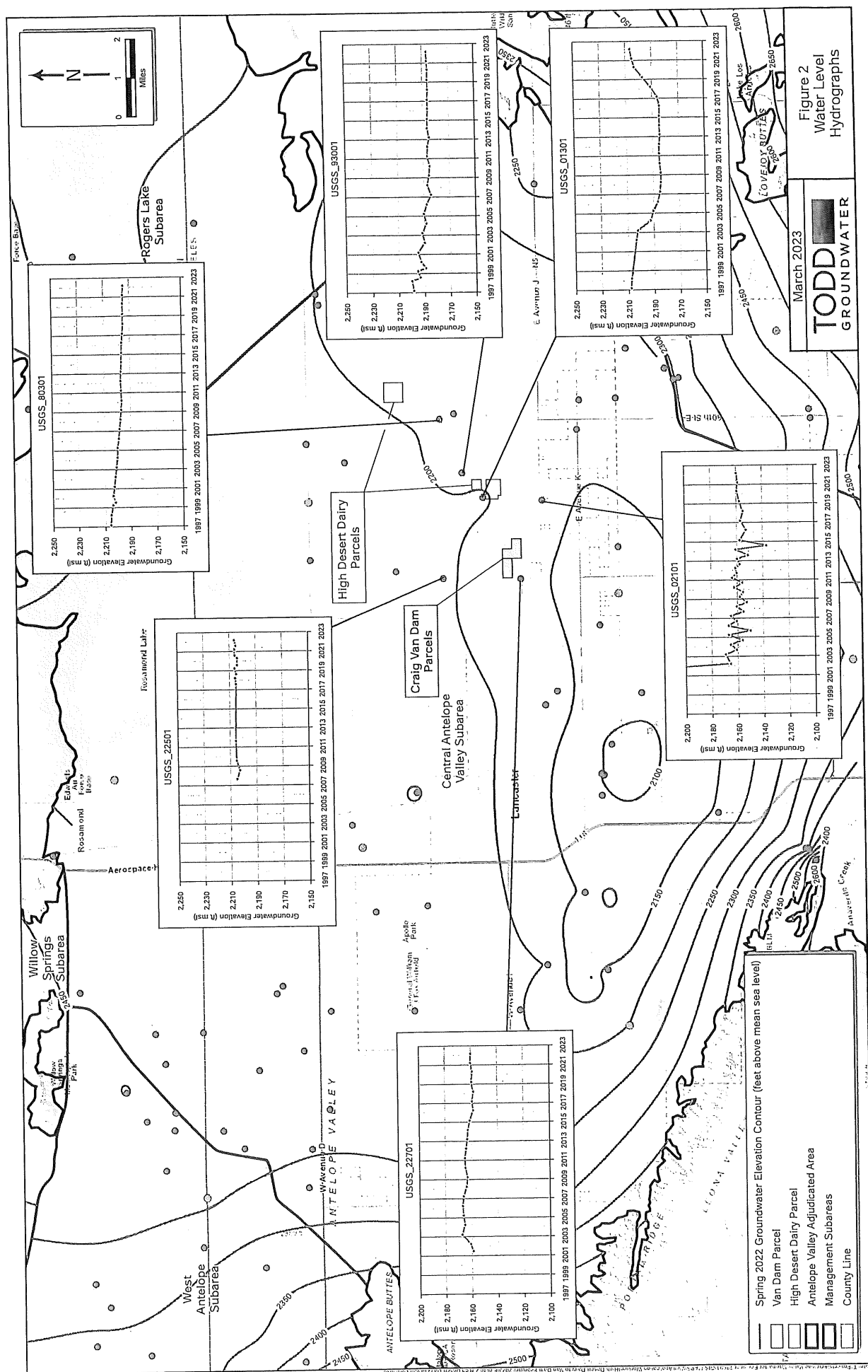


Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer

¹ In addition to the 466 AFY received in the *Van Dam Family Trust – 1996; High Desert Dairy Split of Rights* in 2020, Craig and Marta Van Dam received 610 AFY in a Split of Rights Transfer from *Van Dam: Craig Van Dam, Marta Van Dam, Nick Van Dam, Janet Van Dam* in 2018. In 2020 they transferred 126 AFY of Permanent Production Rights to Calandri Farms and another 125 AFY in 2021. In 2021 they also transferred 1 AFY to *White Fence Farms MWC No 3* and 1 AFY to 40th Street East Water Group. In 2023 they transferred 1 AFY to Antelope Valley Country Club.





TRANSFER REQUEST FORM

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:

<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 5022 West Avenue N, Suite 102, #158, Palmdale, CA 93551 OR email to:
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions. *Transfer Requests review could take up to 60 days.*

PERMANENT TRANSFER? ☒ Yes or No

TEMPORARY/ONE-TIME TRANSFER? Yes or ☒ No

Permanent Amount 500 acre-feet Temporary/One-time Amount _____ acre-feet

IF TRANSFER DUE TO CHANGE IN LAND OWNERSHIP, PLEASE ATTACH DEED AS PROOF OF SALE OR A PRELIMINARY TITLE REPORT

Date Requested September 23, 2022

If Temporary, Calendar Year(s) to be Used _____

Which Party will be paying the annual Administrative Assessment(s) for the transferred water? Transferee

Is either Party a member of the Antelope Valley United Mutuals Group? ☒ Yes or No

TRANSFER FROM (SELLER/TRANSFEROR):

Name High Desert Dairy, LLC Street Address 9753 East Avenue F-8

City Lancaster State California Zip Code 93535

Phone 661-946-1630 email _____

APN#(s) where transfer originates (i.e., production well location(s)) 3307-014-019; 3382-017-015; 3382-018-026

APN#(s) (or water supply service area) where groundwater was used Same

TRANSFER TO (BUYER/TRANSFeree):

Name Craig Van Dam Street Address 8845 West Avenue E-8, PMB 175

City Lancaster State California Zip Code 93536

Phone 661-510-8205 email avfarming@yahoo.com

Note: Legal notices under the Judgment will be sent to the above email address. You are required to keep this information up to date. Please notify the Watermaster of any changes.

APN#(s) (or water supply service area) where transfer will be pumped and used 3384-001-001; and 3384-001-003

Purpose of Transfer:

- ☐ Permanent Transfer resulting from Property Sale/Transfer [PLEASE ATTACH DEED OR PRELIMINARY TITLE REPORT]
- ☐ Additional Source of Water
- ☒ Other, explain Distribution from Company to an Individual Member of Company

Water is to be Transferred from/to: (transferred water retains its original water type):

- ☐ Current Year Production Right: amount _____ acre-feet
- ☐ Carry Over Water: amount _____ acre-feet
- ☐ Storage: amount _____ acre-feet
- ☒ Other, explain Permanent Overlying Production Rights of 500 acre feet effective 12/31/2022

(Transferred water retains its original water type – e.g., transferred Carry Over Water remains Carry Over water)

WATER QUALITY AND WATER LEVELS (not required if transfer is in association of change of land ownership)

Are Parties aware of any water quality issues that exist in either the area transferred from or to? Yes or ☒ No
If yes, please explain: _____

Please provide groundwater elevations in the areas affected by the transfer. _____

Are Parties aware of any water level issues that exist in either the area transferred from or to? Yes or ☒ No
If yes, please explain: _____

MAPS

➡ Please include a map of the area where the water was used by the Transferor and a map of the area where the water is intended to be used by the Transferee. Include locations of production facilities involved in or affected by the Transfer. This map can include all possible locations of past source and use and future source and use.

SECURITY INTEREST OR LIENHOLDERS

For Permanent Transfers, please provide a list of all parties with a recorded security interest, deed of trust or a lien in such real property or in crops growing or to be grown thereon, and attach copies of written notices to such parties and copies of return receipts. N/A

The transfer shall be conditioned upon:

1. Transferee shall succeed to the right of Transferor under the terms of the Judgment.
2. Transferee shall only use Transferred waters for reasonable and beneficial uses.
3. Any Transferee not already a Party to the Judgment must intervene and become a Party to the Judgment.
4. All applicable assessments (Administrative and Balance) and transfer fees are paid in full.
5. If the Watermaster determines that the transfer has resulted in a material injury, the parties will be required to work with the Watermaster Board to mitigate that material injury.
6. For Permanent Transfers, the Parties agree to duly record in the office of the appropriate County Recorder a document reflecting the Permanent Transfer reflected in this Transfer Form.
7. The Transfer Request Form must bear the notarized signatures of both the transferor and the transferee.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I swear under penalty of perjury that the information provided on this Transfer Request Form is correct to the best of my knowledge, that I am authorized to enter into this Transfer on behalf of the party indicated below and to bind that party on whose behalf I am signing, and that signing this Transfer Request Form is within the scope of my authority, and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Transferor See Attached Date _____

Signature of Transferee See Attached Date _____

To be completed by the Watermaster:

Watermaster Engineer Approval Phyllis A. Stanine Date 3/07/2023

Watermaster Board Approval _____ Date _____

Signature of Transferor:

HIGH DESERT DAIRY, LLC, a California limited liability company

Dean Van Dam

By: Dean Van Dam, Member

9/20/2022

Date

Craig Van Dam

By: Craig Van Dam, Member

9-23-22

Date

A notary public or other officer 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 New Mexico

§

COUNTY OF Curry

§

§

On 9.20.2022, before me, Naomi Wall ~~Dean Van Dam~~, a Notary Public, personally appeared DEAN VAN DAM, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, 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.

STATE OF NEW MEXICO

NOTARY PUBLIC

Naomi Wall

Commission No. 1114613

July 20, 2024

Signature: Naomi Wall (Seal)

A notary public or other officer 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

§

§

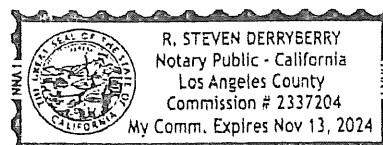
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COUNTY OF LOS ANGELES


On September 23, 2022, before me, R. Steven Derryberry, a Notary Public, personally appeared CRAIG VAN DAM, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, 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.

Signature: R. Steven Derryberry (Seal)

Signature of Transferee:


By: Craig Van Dam

9-23-22
Date

A notary public or other officer 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

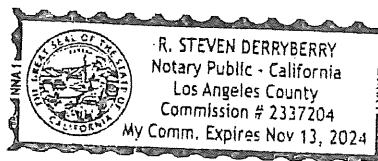
COUNTY OF LOS ANGELES

On September 23, before me, R. Steven Derryberry, a Notary Public, personally appeared CRAIG VAN DAM, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

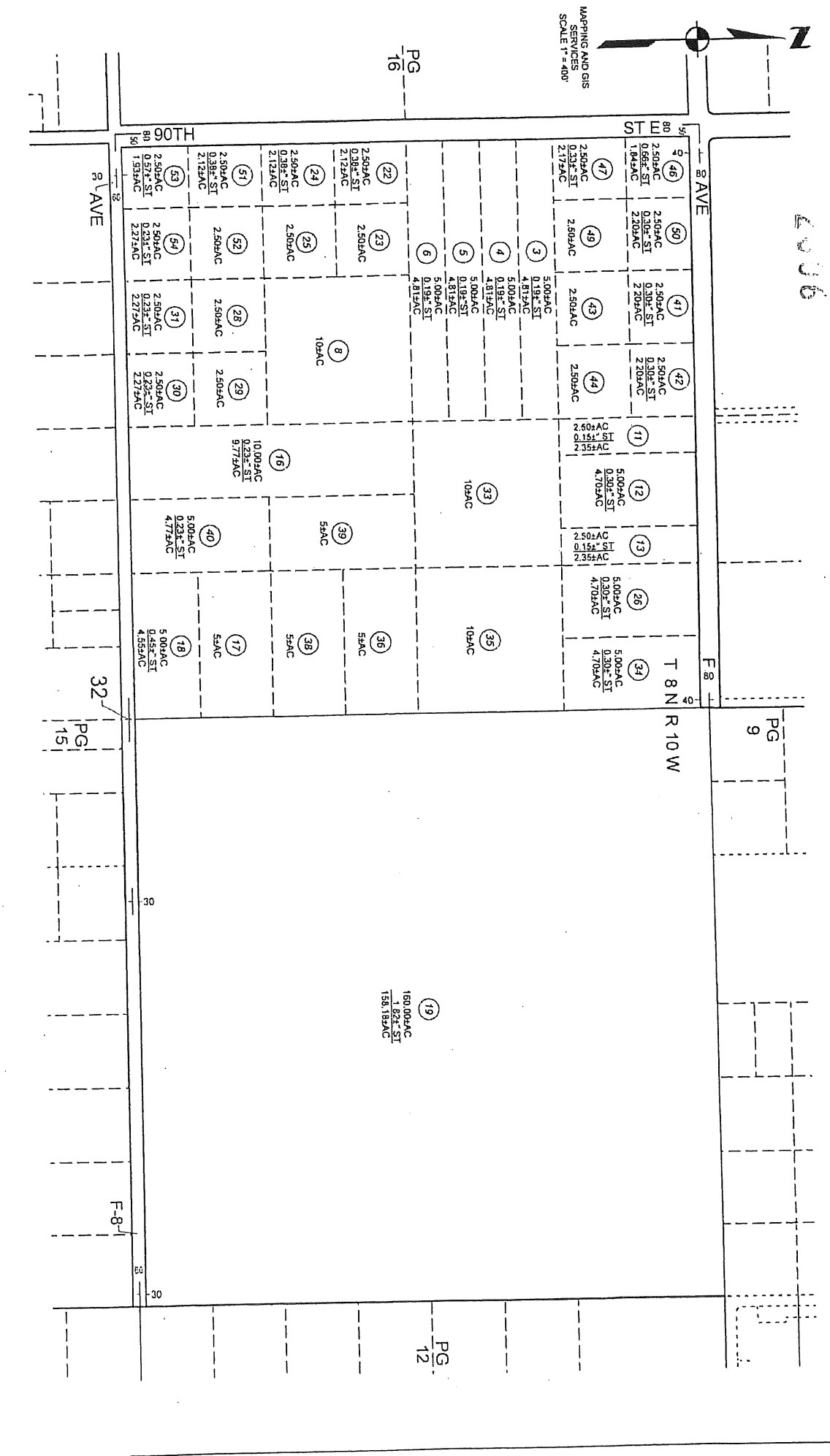
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature:  (Seal)

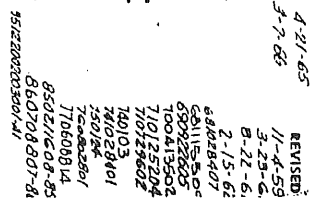


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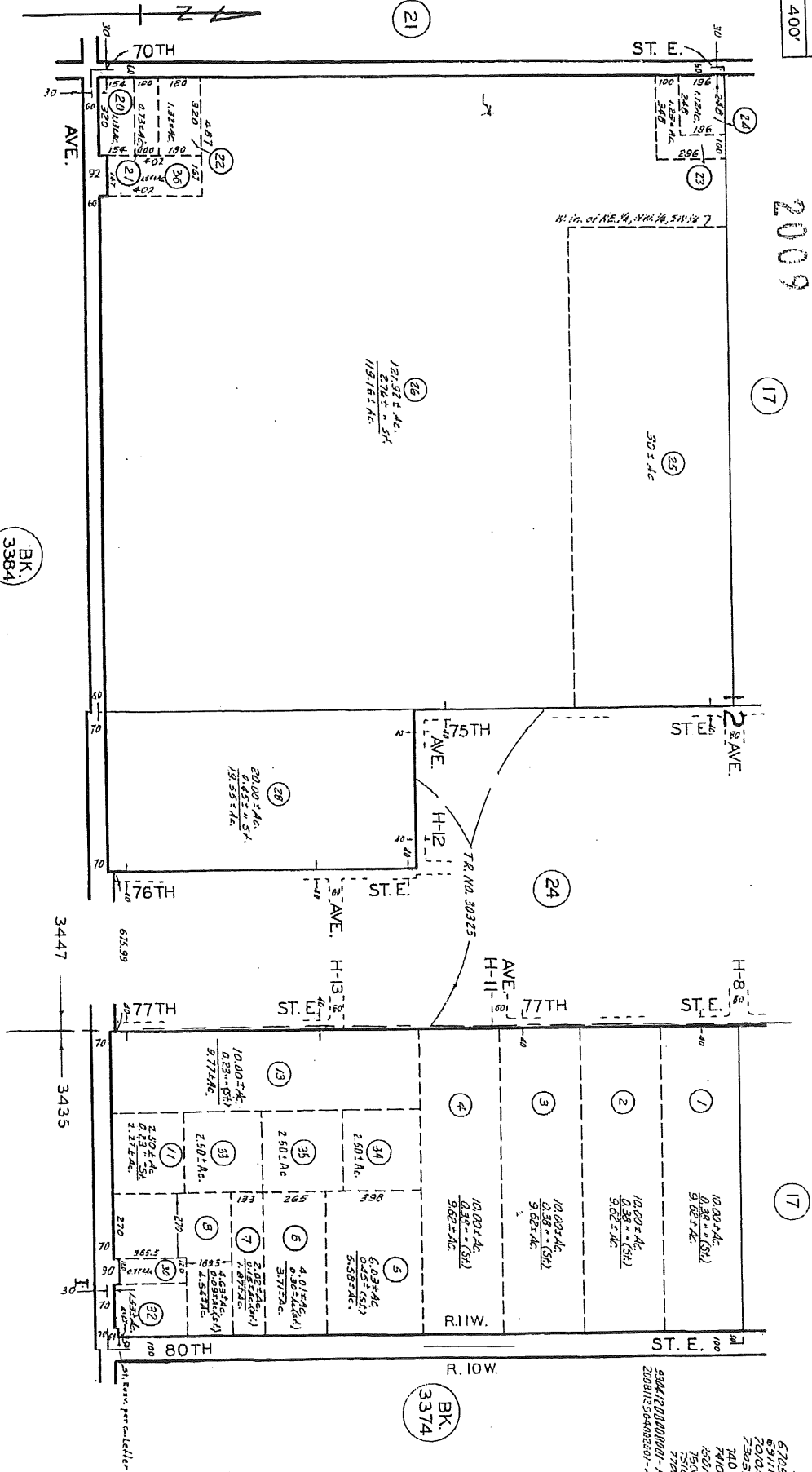
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ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

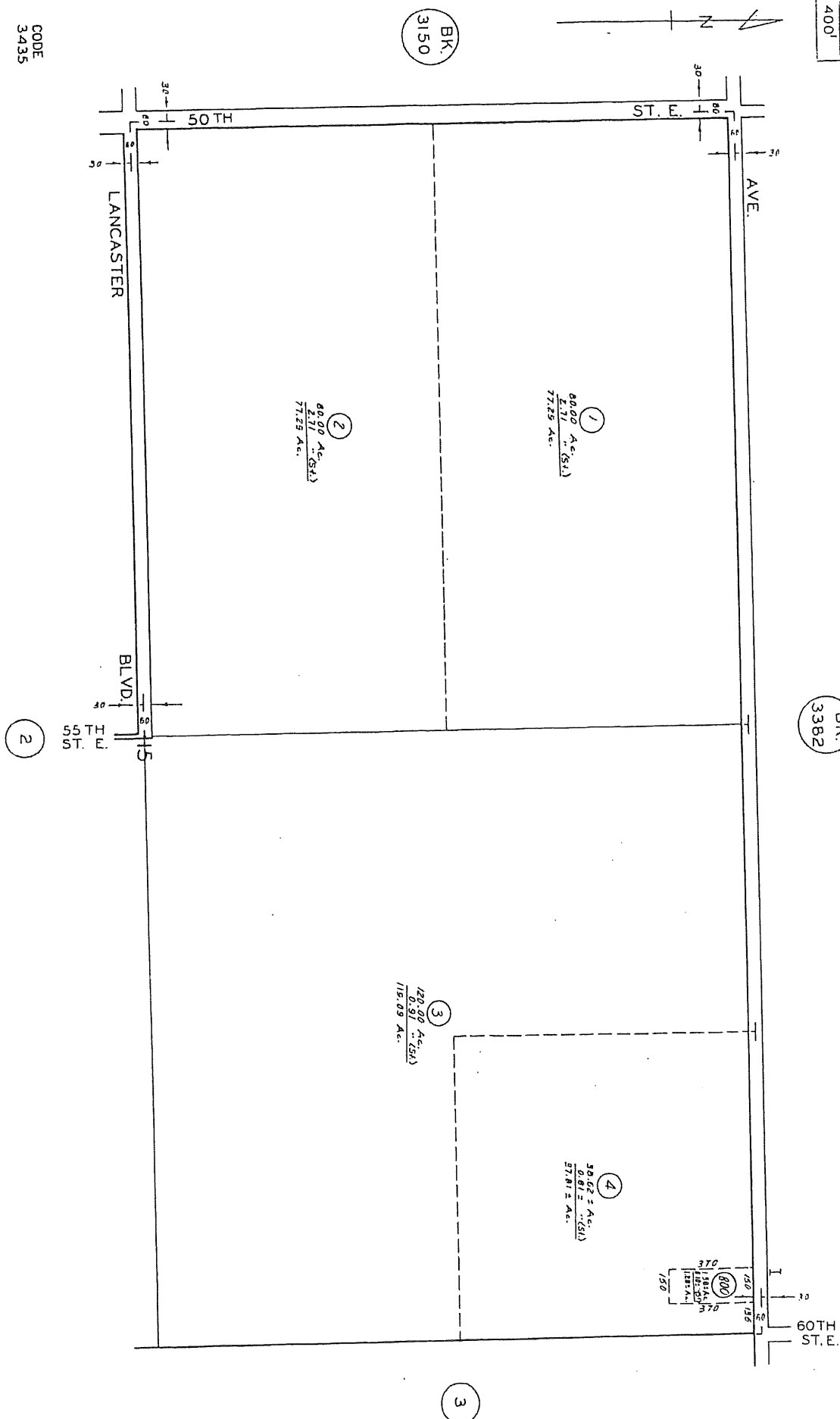
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ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

TRANSFEREE'S MAP #1 of #1

BK.
3382



FOR PREV. ASSMT SEE:
3156 - 2

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

Resolution No. R-23-30

Transfer – AV Water Trust to Perini

RESOLUTION NO. R-23-30

**APPROVING APPLICATIONS FOR TRANSFERS PURSUANT TO THE TERMS OF
THE JUDGMENT; ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment (“Judgment”), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for transfers is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that applications for transfers be denied or approved and that approval may be pursuant to certain conditions; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings that all conditions for transfers under the Judgment and the Rules and Regulations have been satisfied, and that no Material Injury will result from the proposed transfers; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the applications listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for transfers listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-30 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held April 26, 2023, in Palmdale, California.

Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

**Exhibit A Attachment to
Resolution No. R-23-30
Approving Applications for Transfers
Pursuant to the Terms of the Judgment**

Original Producer	Transferee	Type of Transfer	Amount	Original Parcel(s) (APN#)	Parcels Water Transferred to (APN#)
Antelope Valley Water Trust	Tutor Perini Corporation	Permanent and Carry Over	1 (AF) Permanent / 100 (AF) Carry Over	No extraction point identified	No extraction point identified

April 7, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: Antelope Valley Water Trust to Tutor Perini Corporation Transfer

Watermaster Board:

Todd Groundwater finds that the attached application for a permanent transfer of 1 Acre-foot per year (AFY) and a one-time transfer of 100 AF of Carry Over Water from Antelope Valley Water Trust, LLC, (Caruso Investments) to Tutor Perini Corporation is complete.

Antelope Valley Water Trust is an Exhibit 4 Party with 50 AFY of Permanent Production Rights¹ and 100 AF of Carry Over Water for use in 2023. Antelope Valley Water Trust uses this water for investment purposes and does not have a point of extraction associated with these Rights.

Tutor Perini Corporation is not an Exhibit 4 Party and is not listed in the Judgment. It will need to successfully intervene in the Judgment as a condition for the approval of this transfer.

This transfer application is the first of two transfers to Tutor Perini Corporation presented to the Watermaster Board for consideration this month. The second transfer application is for a one-time transfer of 140 AF of Carry Over water from Caruso Investments, LLC, to Tutor Perini Corporation. That application is contingent upon the transfer of permanent Production Rights to Tutor Perini Corporation.

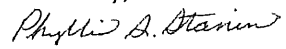
This transfer to Tutor Perini Corporation is for investment purposes at this time. Consequently, the extraction location is not known so no Material Injury analysis can be conducted. A New Point of Extraction application or a subsequent Transfer application will need to be submitted in the future before any of the water transferred to Tutor Perini Corporation is produced. That application will need to be approved and show no Material Injury related to the specified transfer.

Todd Groundwater recommends the approval of this transfer on the following conditions: Tutor Perini Corporation must successfully intervene in the Judgment and become an Exhibit 4 Party, and Tutor Perini Corporation must submit a New Point of Extraction or a subsequent

¹ Antelope Valley Water Trust became an Exhibit 4 Party after receiving 20 AFY of permanent Production Rights from Calandri Farms in June 2021 and successfully intervening in the Judgment. Antelope Valley Water Trust received an additional 30 AFY of permanent Production Rights from Calandri Farms in October 2021.

transfer application prior to production. This will ensure that future use is shown to not cause Material Injury.

Sincerely,

A handwritten signature in cursive script that reads "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer

TRANSFER REQUEST FORM

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:

<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to:

info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions. *Transfer Requests review could take up to 60 days.*

PERMANENT TRANSFER? ☒ Yes or No

TEMPORARY/ONE-TIME TRANSFER? ☒ Yes or No

Permanent Amount One (1) acre-feet Temporary/One-time Amount One Hundred (100) acre-feet

IF TRANSFER DUE TO CHANGE IN LAND OWNERSHIP, PLEASE ATTACH DEED AS PROOF OF SALE OR A PRELIMINARY TITLE REPORT

Date Requested 3.28.2023

If Temporary, Calendar Year(s) to be Used Temporary Transfer is from Carryover Water from Transferor

Which Party will be paying the annual Administrative Assessment(s) for the transferred water? Buyer

Is either Party a member of the Antelope Valley United Mutuals Group? Yes or ☒ No

TRANSFER FROM (SELLER/TRANSFEROR):

Name David Leventhal, Trustee of the Antelope Valley Water Trust Street Address 18565 Soledad Canyon Road, Suite 300

City Santa Clarita State California Zip Code 91351

Phone 661-251-1000 email leventhaldavid@gmail.com

APN#(s) where transfer originates (i.e., production well location(s)) No extraction point identified

APN#(s) (or water supply service area) where groundwater was used No extraction point identified

TRANSFER TO (BUYER/TRANSFeree):

Name Tutor Perini Corporation Street Address 15901 Olden Street

City Sylmar State California Zip Code 91342

Phone 818-362-8391 email Ron.Tutor@tutorperini.com

Note: Legal notices under the Judgment will be sent to the above email address. You are required to keep this information up to date. Please notify the Watermaster of any changes.

APN#(s) (or water supply service area) where transfer will be pumped and used None at this time. Buyer will comply with all laws, rules and regulations before extracting or using any water procured

Purpose of Transfer:

- ☐ Permanent Transfer resulting from Property Sale/Transfer [PLEASE ATTACH DEED OR PRELIMINARY TITLE REPORT]
- ☐ Additional Source of Water
- ☒ Other, explain No extraction point at this time, acquisition is for investment purposes

Water is to be Transferred from/to: (transferred water retains its original water type):

- ☐ Current Year Production Right: amount _____ acre-feet
- ☒ Carry Over Water: amount One Hundred (100) AF acre-feet
- ☐ Storage: amount _____ acre-feet
- ☒ Other, explain Buyer will comply with the AV Water Adjudication Judgment, AV Watermaster Rules and California Law.

(Transferred water retains its original water type – e.g., transferred Carry Over Water remains Carry Over water)

WATER QUALITY AND WATER LEVELS (not required if transfer is in association of change of land ownership)

Are Parties aware of any water quality issues that exist in either the area transferred from or to? Yes or **No**
 If yes, please explain: n/a

Please provide groundwater elevations in the areas affected by the transfer. n/a

Are Parties aware of any water level issues that exist in either the area transferred from or to? Yes or **No**
 If yes, please explain: n/a

MAPS

➡ Please include a map of the area where the water was used by the Transferor and a map of the area where the water is intended to be used by the Transferee. Include locations of production facilities involved in or affected by the Transfer. This map can include all possible locations of past source and use and future source and use.

SECURITY INTEREST OR LIENHOLDERS

For Permanent Transfers, please provide a list of all parties with a recorded security interest, deed of trust or a lien in such real property or in crops growing or to be grown thereon, and attach copies of written notices to such parties and copies of return receipts. None

The transfer shall be conditioned upon:

1. Transferee shall succeed to the right of Transferor under the terms of the Judgment.
2. Transferee shall only use Transferred waters for reasonable and beneficial uses.
3. Any Transferee not already a Party to the Judgment must intervene and become a Party to the Judgment.
4. All applicable assessments (Administrative and Balance) and transfer fees are paid in full.
5. If the Watermaster determines that the transfer has resulted in a material injury, the parties will be required to work with the Watermaster Board to mitigate that material injury.
6. For Permanent Transfers, the Parties agree to duly record in the office of the appropriate County Recorder a document reflecting the Permanent Transfer reflected in this Transfer Form.
7. The Transfer Request Form must bear the notarized signatures of both the transferor and the transferee.
8. The Seller/Transferor must be the owner of the water rights pursuant to the Judgment. No Party may transfer water rights held pursuant to a lease agreement or other private contract with the actual water rights owner.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I swear under penalty of perjury that the information provided on this Transfer Request Form is correct to the best of my knowledge, that I am authorized to enter into this Transfer on behalf of the party indicated below and to bind that party on whose behalf I am signing, and that signing this Transfer Request Form is within the scope of my authority, and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Transferor _____ See attached signature page _____ Date _____

Signature of Transferee See attached signature page Date _____

To be completed by the Watermaster:

Watermaster Engineer Approval Phyllis S. Starnes Date 4/7/2023

Watermaster Board Approval _____ Date _____

ATTACHMENT TO TRANSFER REQUEST FORM

ANTELOPE VALLEY WATERMASTER

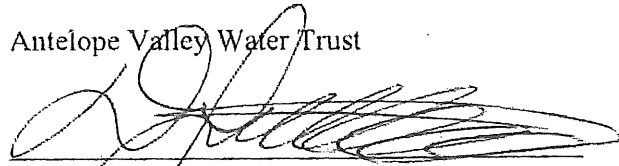
Transfer From (Seller/Transferor):

Name: Antelope Valley Water Trust (as to 1 Permanent acre foot of Water Rights plus 100 acre feet of Carry Over Water Rights)

SIGNATURE OF TRANSFEROR:

Dated: 3-24-, 2023

Antelope Valley Water Trust


By: David Leventhal, Trustee**SIGNATURE OF TRANSFEREE:**

Dated: _____, 2023

Tutor Perini Corporation
Signed in Counterpart

By: Ronald Tutor, President

ATTACHMENT TO TRANSFER REQUEST FORM
ANTELOPE VALLEY WATERMASTER

Transfer From (Seller/Transferor):

Name: Antelope Valley Water Trust (as to 1 Permanent acre foot of Water Rights plus 100 acre feet of Carry Over Water Rights)

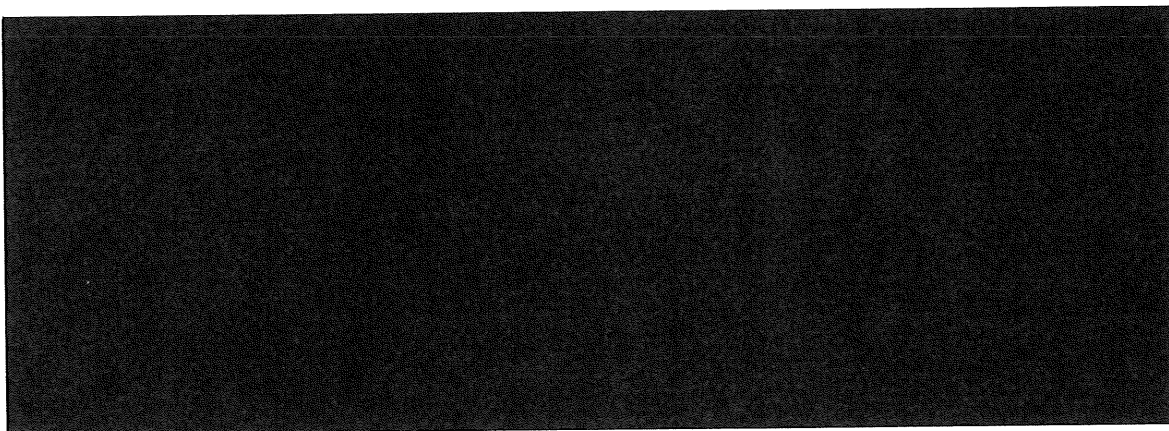
SIGNATURE OF TRANSFEROR:

Dated: _____, 2023

Antelope Valley Water Trust

Signed in Counterpart

By: David Leventhal, Trustee



SIGNATURE OF TRANSFEREE:

Dated: March 27, 2023

Tutor Perini Corporation

By: Ronald Tutor, ~~President~~ CEO

A notary public or other officer 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

§
§
§

COUNTY OF LOS ANGELES

On 3/24/, 2023, before me, Hamid Nessar,
a Notary Public, personally appeared David Leventhal, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, 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.

Signature: _____

Hamid Nessar

(Seal)



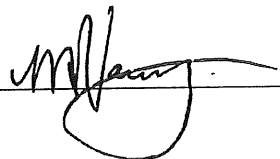
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA §
 §
 COUNTY OF LOS ANGELES §

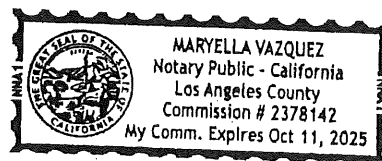
On March 27th, 2023, before me, Maryella Vazquez,
 a Notary Public, personally appeared Ronald Tutor, who proved to me on the basis of
 satisfactory evidence to be the person whose name is subscribed to the within instrument and
 acknowledged to me that he executed the same in his authorized capacity, and that by his
 signature on the instrument the person, or the entity upon behalf of which the person acted,
 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.

Signature: _____



(Seal)



Resolution No. R-23-31

Transfer – Caruso to Perini

RESOLUTION NO. R-23-31

APPROVING APPLICATIONS FOR TRANSFERS PURSUANT TO THE TERMS OF THE JUDGMENT; ATTACHED EXHIBIT A

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment (“Judgment”), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for transfers is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that applications for transfers be denied or approved and that approval may be pursuant to certain conditions; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings that all conditions for transfers under the Judgment and the Rules and Regulations have been satisfied, and that no Material Injury will result from the proposed transfers; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the applications listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for transfers listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-31 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held April 26, 2023, in Palmdale, California.

Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

**Exhibit A Attachment to
Resolution No. R-23-31
Approving Applications for Transfers
Pursuant to the Terms of the Judgment**

Original Producer	Transferee	Type of Transfer	Amount	Original Parcel(s) (APN#)	Parcels Water Transferred to (APN#)
Caruso Investments, LLC	Tutor Perini Corporation	Carry Over Water	140 (AF)	375-010-002; 375-010-015; 375-010-016; 375-010-017; 375-010-018; 375-230-027; 375-230-028; 375-230-030; 3170-012-002	No extraction point identified.

April 7, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: Caruso Investments, LLC, to Tutor Perini Corporation Transfer

Watermaster Board:

Todd Groundwater finds that the attached application for a one-time transfer of 140 AF of Carry Over Water from Caruso Investments, LLC, (Caruso Investments) to Tutor Perini Corporation is complete.

In December 2022, Calandri Water Company transferred 1,332 AFY of Permanent Production Rights to Caruso Investments. In February 2023, Caruso Investments successfully intervened in the Judgment and became an Exhibit 4 Party. In March 2023, Calandri Water Company transferred 1,900.31 AF of Carry Over Water to Caruso Investments. The parcels associated with Caruso Investment's production rights are located in the Central Antelope Subarea and are shown in **Figure 1**.

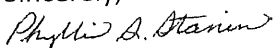
Tutor Perini Corporation is not an Exhibit 4 Party nor listed in the Judgment. This transfer application is the second of two transfers to Tutor Perini Corporation presented to the Watermaster Board for consideration this month. The first transfer application is from Antelope Valley Water Trust and is a permanent transfer of 1 AFY of Production Right and a temporary transfer of 100 AF of Carry Over Water to Tutor Perini Corporation. A permanent Production Right transfer to Tutor Perini Corporation must be approved and Tutor Perini Corporation must intervene into the Judgment to become an Exhibit 4 Party as conditions for the approval of this one-time transfer.

This one-time transfer to Tutor Perini Corporation is for investment purposes at this time. Consequently, the extraction location is not known, so no Material Injury analysis can be conducted. A New Point of Extraction application or a subsequent Transfer application will need to be submitted in the future before any of the water transferred to Tutor Perini Corporation is produced. That application will need to be approved and show no Material Injury related to the specified transfer.

Todd Groundwater recommends the approval of this transfer on the following conditions: a transfer of permanent production rights to Tutor Perini Corporation must be approved, Tutor Perini Corporation must successfully intervene in the Judgment and become an Exhibit 4 Party, and Tutor Perini Corporation must submit a New Point of Extraction or a subsequent

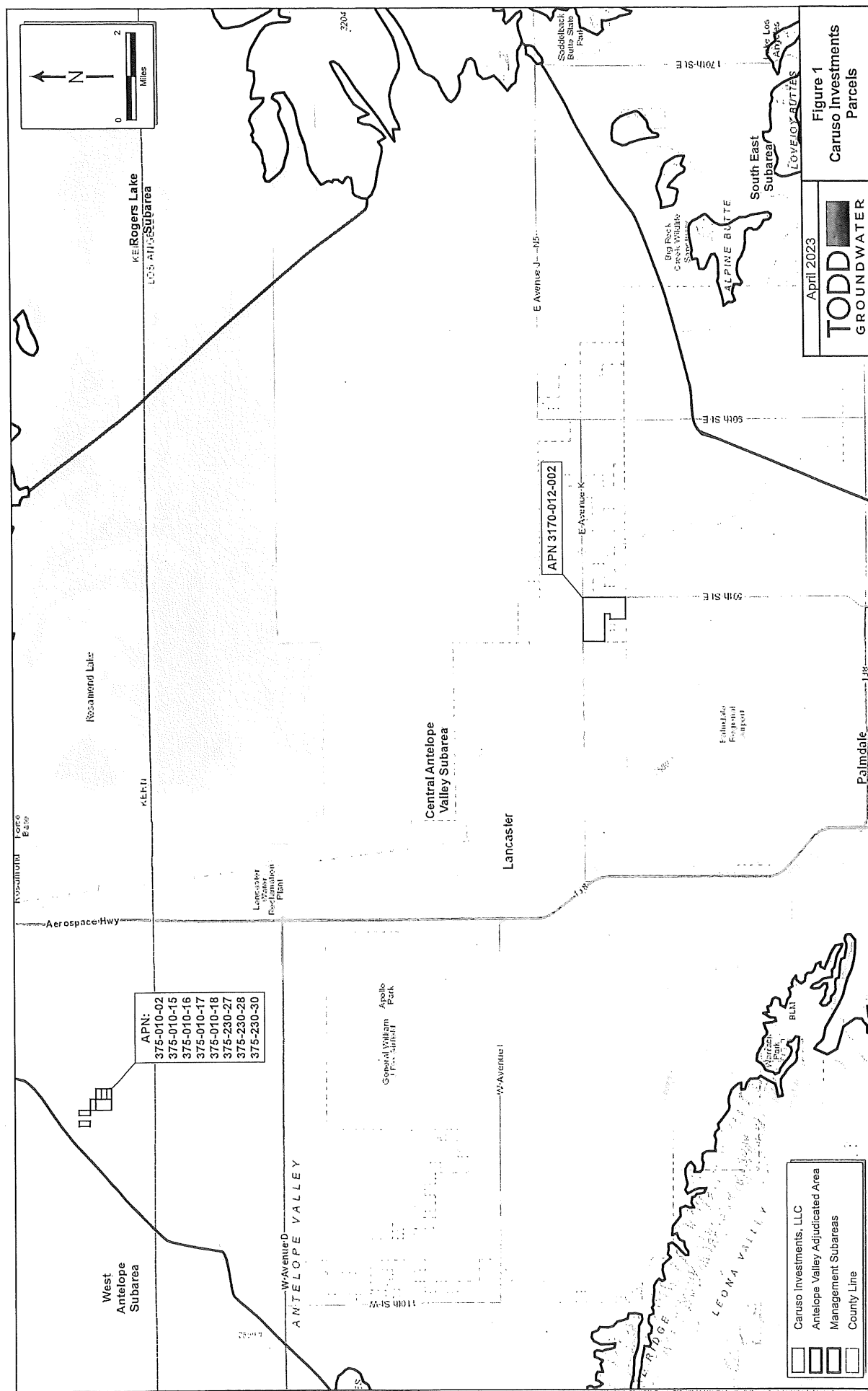
transfer application prior to production. This will ensure that future use is shown to not cause Material Injury.

Sincerely,

A handwritten signature in cursive script that reads "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer



TRANSFER REQUEST FORM

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:

<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to:
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions. *Transfer Requests review could take up to 60 days.*

PERMANENT TRANSFER? Yes or **No**

TEMPORARY/ONE-TIME TRANSFER? **Yes** or No

Permanent Amount _____ acre-feet Temporary/One-time Amount One Hundred Forty (140) acre-feet

IF TRANSFER DUE TO CHANGE IN LAND OWNERSHIP, PLEASE ATTACH DEED AS PROOF OF SALE OR A PRELIMINARY TITLE REPORT

Date Requested 3.28.2023

If Temporary, Calendar Year(s) to be Used Temporary Transfer is from Carryover Water from Transferor

Which Party will be paying the annual Administrative Assessment(s) for the transferred water? Buyer

Is either Party a member of the Antelope Valley United Mutuels Group? Yes or **No**

TRANSFER FROM (SELLER/TRANSFEROR):

Name Caruso Investments, LLC Street Address PO Box 8010

City Lancaster State California Zip Code 93539

Phone 661-488-8073 email john.calandri@icloud.com

APN#(s) where transfer originates (i.e., production well location(s)) Kern Co. APNs: 375-010-002, 375-010-015, 375-010-016, 375-010-017, 375-010-018, 375-230-027, 375-230-028, 375-230-030; and LA County 3170-012-002

APN#(s) (or water supply service area) where groundwater was used Same APN#s as where transfer originates

TRANSFER TO (BUYER/TRANSFeree):

Name Tutor Perini Corporation Street Address 15901 Olden Street

City Sylmar State California Zip Code 91342

Phone 818-362-8391 email Ron.Tutor@tutorperini.com

Note: Legal notices under the Judgment will be sent to the above email address. You are required to keep this information up to date. Please notify the Watermaster of any changes.

APN#(s) (or water supply service area) where transfer will be pumped and used None at this time. Buyer will comply with all laws, rules and regulations before extracting or using any water procured

Purpose of Transfer:

- ☐ Permanent Transfer resulting from Property Sale/Transfer [PLEASE ATTACH DEED OR PRELIMINARY TITLE REPORT]
- ☐ Additional Source of Water
- ☒ Other, explain No extraction point at this time, acquisition is for investment purposes

Water is to be Transferred from/to: (transferred water retains its original water type):

- ☐ Current Year Production Right: amount _____ acre-feet
- ☒ Carry Over Water: amount One Hundred Forty (140) acre-feet
- ☐ Storage: amount _____ acre-feet
- ☒ Other, explain Buyer will comply with the AV Water Adjudication Judgment, AV Watermaster Rules and California Law.

(Transferred water retains its original water type – e.g., transferred Carry Over Water remains Carry Over water)

WATER QUALITY AND WATER LEVELS (not required if transfer is in association of change of land ownership)

Are Parties aware of any water quality issues that exist in either the area transferred from or to? Yes or No
 If yes, please explain: n/a

Please provide groundwater elevations in the areas affected by the transfer. n/a

Are Parties aware of any water level issues that exist in either the area transferred from or to? Yes or No
 If yes, please explain: n/a

MAPS

➡ Please include a map of the area where the water was used by the Transferor and a map of the area where the water is intended to be used by the Transferee. Include locations of production facilities involved in or affected by the Transfer. This map can include all possible locations of past source and use and future source and use.

SECURITY INTEREST OR LIENHOLDERS

For Permanent Transfers, please provide a list of all parties with a recorded security interest, deed of trust or a lien in such real property or in crops growing or to be grown thereon, and attach copies of written notices to such parties and copies of return receipts. None

The transfer shall be conditioned upon:

1. Transferee shall succeed to the right of Transferor under the terms of the Judgment.
2. Transferee shall only use Transferred waters for reasonable and beneficial uses.
3. Any Transferee not already a Party to the Judgment must intervene and become a Party to the Judgment.
4. All applicable assessments (Administrative and Balance) and transfer fees are paid in full.
5. If the Watermaster determines that the transfer has resulted in a material injury, the parties will be required to work with the Watermaster Board to mitigate that material injury.
6. For Permanent Transfers, the Parties agree to duly record in the office of the appropriate County Recorder a document reflecting the Permanent Transfer reflected in this Transfer Form.
7. The Transfer Request Form must bear the notarized signatures of both the transferor and the transferee.
8. The Seller/Transferor must be the owner of the water rights pursuant to the Judgment. No Party may transfer water rights held pursuant to a lease agreement or other private contract with the actual water rights owner.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I swear under penalty of perjury that the information provided on this Transfer Request Form is correct to the best of my knowledge, that I am authorized to enter into this Transfer on behalf of the party indicated below and to bind that party on whose behalf I am signing, and that signing this Transfer Request Form is within the scope of my authority, and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Transferor _____ See attached signature page _____ Date _____

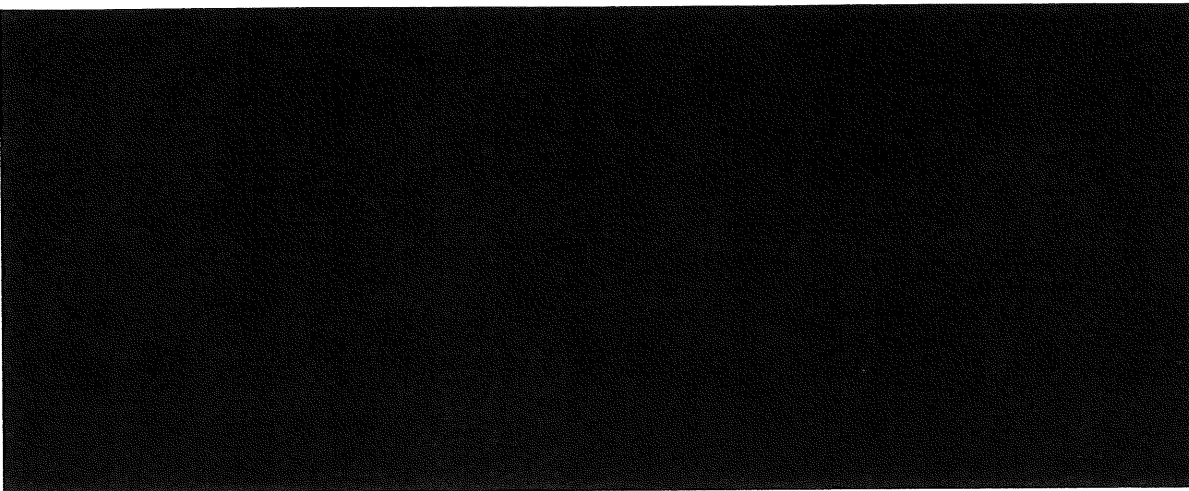
Signature of Transferee See attached signature page Date _____

To be completed by the Watermaster:

To be completed by the Watermaster:
 Watermaster Engineer Approval Phyllis A. Starnin Date 4/7/2023

Watermaster Board Approval _____ Date _____

ATTACHMENT TO TRANSFER REQUEST FORM
ANTELOPE VALLEY WATERMASTER




Transfer From (Seller/Transferor):

Name: Caruso Investments, LLC (as to 140 acre feet of Carry Over Water Rights)

SIGNATURE OF TRANSFEROR:

Dated: 3-24, 2023

Caruso Investments, LLC


By: John A. Calandri, Manager

SIGNATURE OF TRANSFEREE:

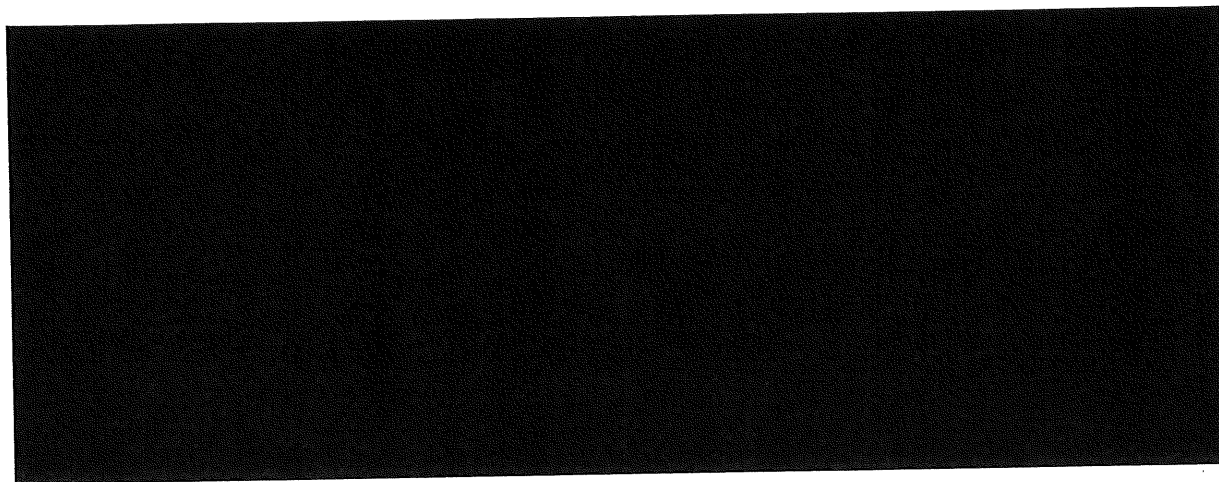
Dated: _____, 2023

Tutor Perini Corporation

Signed in Counterpart

By: Ronald Tutor, President

ATTACHMENT TO TRANSFER REQUEST FORM
ANTELOPE VALLEY WATERMASTER



Transfer From (Seller/Transferor):

Name: Caruso Investments, LLC (as to 140 acre feet of Carry Over Water Rights)

SIGNATURE OF TRANSFEROR:

Dated: _____, 2023

Caruso Investments, LLC

Signed in Counterpart

By: John A. Calandri, Manager

SIGNATURE OF TRANSFEREE:

Dated: March 27, 2023

Tutor Perini Corporation

By: Ronald Tutor, ~~President~~ CEO

A notary public or other officer 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.

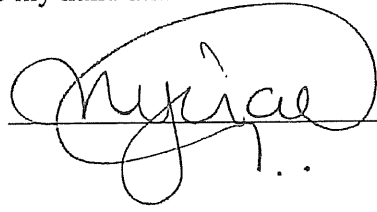
STATE OF CALIFORNIA §

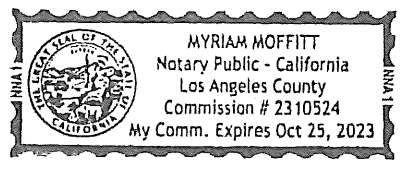
COUNTY OF LOS ANGELES §

On 3/24/23, 2023, before me, Myriam Moffitt,
a Notary Public, personally appeared John A. Calandri, who proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the within instrument and
acknowledged to me that he executed the same in his authorized capacity, and that by his signature
on the instrument the person, or the entity upon behalf of which the person acted, 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.

Signature:  (Seal)



A notary public or other officer 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

§

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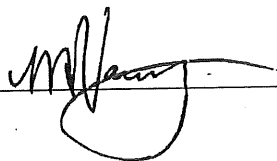
COUNTY OF LOS ANGELES

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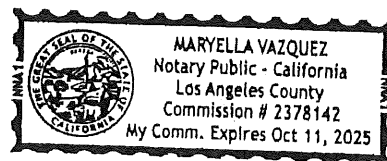
On March 27th, 2023, before me, Maryella Vazquez,
a Notary Public, personally appeared Ronald Tutor, who proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the within instrument and
acknowledged to me that he executed the same in his authorized capacity, and that by his
signature on the instrument the person, or the entity upon behalf of which the person acted,
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.

Signature: _____



(Seal)



Resolution No. R-23-32

Transfer – PWD to LCID

RESOLUTION NO. R-23-32

**APPROVING APPLICATIONS FOR TRANSFERS PURSUANT TO THE TERMS OF
THE JUDGMENT; ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment ("Judgment"), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for transfers is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that applications for transfers be denied or approved and that approval may be pursuant to certain conditions; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings that all conditions for transfers under the Judgment and the Rules and Regulations have been satisfied, and that no Material Injury will result from the proposed transfers; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the applications listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for transfers listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-32 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held April 26, 2023, in Palmdale, California.

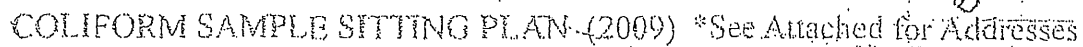
Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

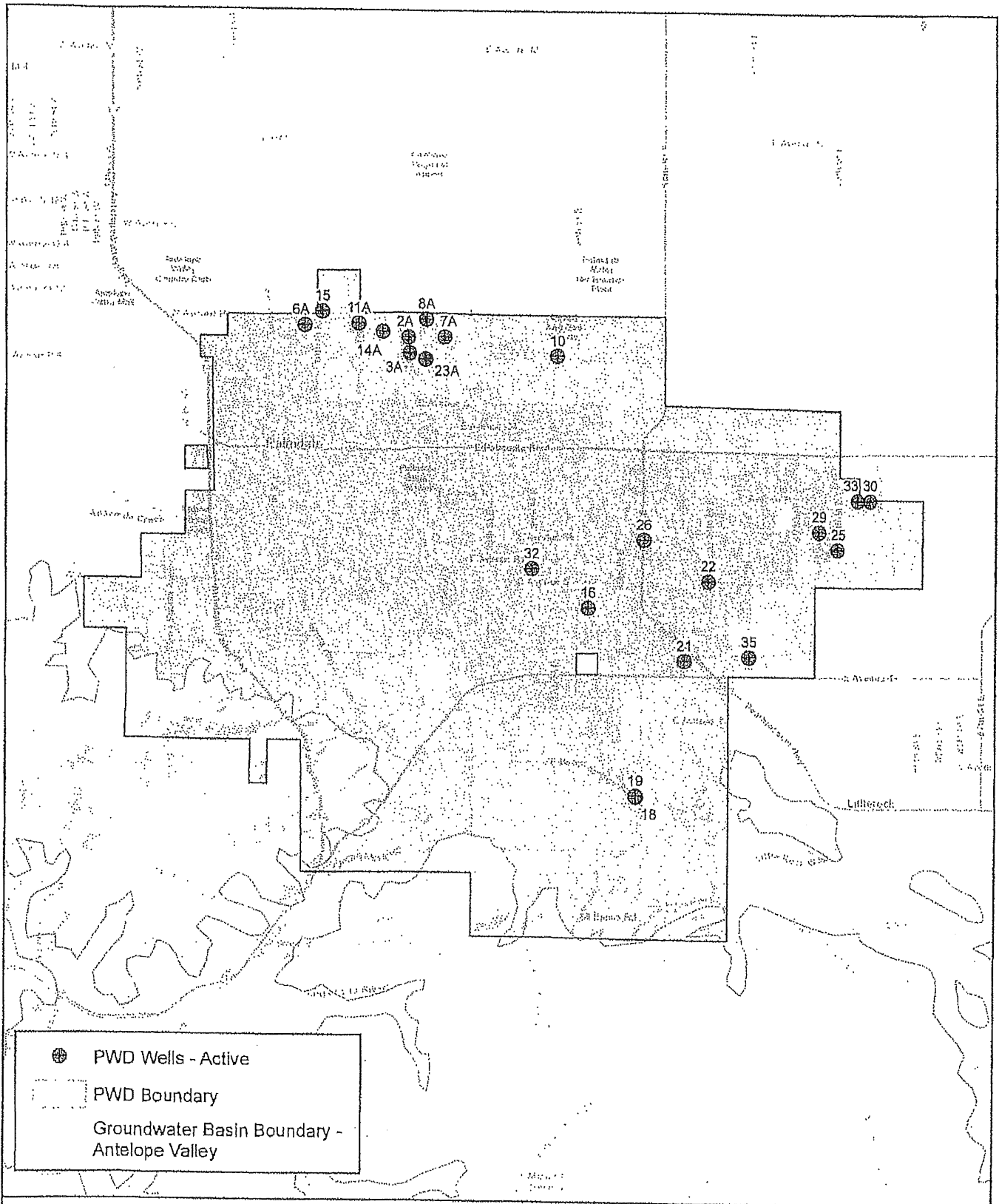
**Exhibit A Attachment to
Resolution No. R-23-32
Approving Applications for Transfers
Pursuant to the Terms of the Judgment**

Original Producer	Transferee	Type of Transfer	Amount	Original Parcel(s) (APN#)	Parcels Water Transferred to (APN#)
Palmdale Water District	Littlerock Creek Irrigation District	One-time 2023 Production Right	250 (AF)	See Attached	See Attached



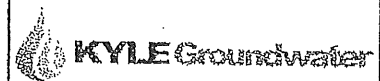
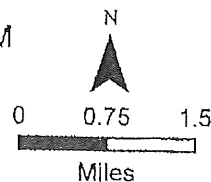
Littlerock Creek Irrigation District





WELL LOCATIONS

WELL REHABILITATION PRIORITIZATION PROGRAM
PALMDALE WATER DISTRICT
PALMDALE, CALIFORNIA
DECEMBER 2020



PROJECT NO.
3020.001

FIGURE
2

April 7, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: Palmdale Water District to Littlerock Creek Irrigation District

Watermaster Board:

Todd Groundwater finds that the attached application for a one-time transfer of 250 acre-feet (AF) of 2023 Current Year Production Right from Palmdale Water District (PWD) to Littlerock Creek Irrigation District (LCID) is complete. Both parties are Exhibit 3 Parties.

PWD has 2,769.63 AFY of Permanent Production Rights, Unused Federal Reserve Rights, and Imported Water Return Flows. Production is split among 23 Production Wells in the Central and South East Antelope Subareas (**Figure 1**). One New Point of Extraction was approved in March 2022. In 2022 PWD produced 8,539.57 AF and has 8,497.64 AF of Carry Over water available for use in 2023.

LCID has a Permanent Production Right of 796.58 AFY, Unused Federal Reserve Rights, and Imported Water Return Flows. Production is split between four wells, all in the South East Subarea (**Figure 1**). In 2022, LCID produced 1,148.46 AF and has 370.05 AF of Carry Over water available for use in 2023.

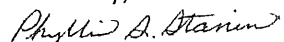
PWD and LCID formed an agreement (included in this application) in September 2022 in which LCID will transfer their Table A surface water to PWD in years with 20% or less State Water Project Allocations. In return, PWD may choose to pay LCID by groundwater transfer, in lieu of financial payment. In their agreement, the groundwater transfer payment for receiving 100% of LCID's Table A water is 250 AFY. During these years, PWD's groundwater production will be supplemented by surface water and reduced, and any increased production by LCID will be distributed amongst its four wells.

Figure 2 shows hydrographs surrounding the PWD and LCID Wells. USGS Well #44401, near the PWD wells, shows that water levels have increased until 2013 and then have slowly declined. The hydrograph for USGS Well #93101 shows fluctuating water levels until about 2013, followed by decreased water levels. USGS Well #82601, near LCID wells, had declining water levels from 1997 until its last measurement in 2018.

Because this transfer results in a shift in location of groundwater production with no overall increase and because any increased production by LCID will be spread among four wells, there is no Material Injury associated with groundwater storage and sustainable yield. There is also no

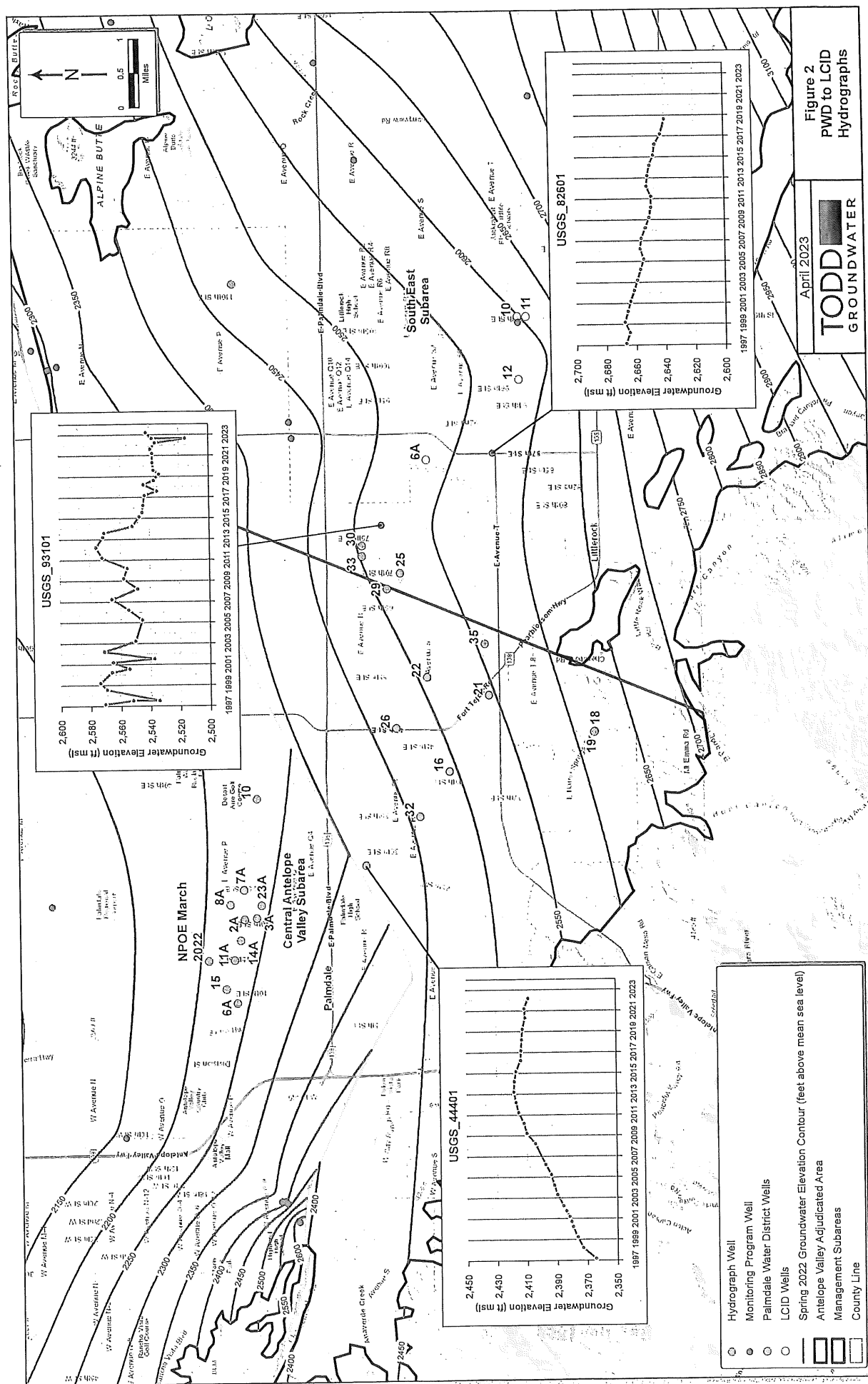
expected impact to local water quality or natural recharge associated with this shift in production. Recognizing that this transfer does not represent new production, Todd Groundwater finds the potential for Material Injury as defined in the Judgment negligible.

Sincerely,

A handwritten signature in cursive script that reads "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer



TRANSFER REQUEST FORM

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:

<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to:

info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions. *Transfer Requests review could take up to 60 days.*

PERMANENT TRANSFER? Yes or No

TEMPORARY/ONE-TIME TRANSFER? Yes or No

Permanent Amount _____ acre-feet Temporary/One-time Amount 250 _____ acre-feet

IF TRANSFER DUE TO CHANGE IN LAND OWNERSHIP, PLEASE ATTACH DEED AS PROOF OF SALE OR A PRELIMINARY TITLE REPORT

Date Requested 02/08/2023

If Temporary, Calendar Year(s) to be Used 2023

Which Party will be paying the annual Administrative Assessment(s) for the transferred water? PWD

Is either Party a member of the Antelope Valley United Mutuels Group? Yes or No

TRANSFER FROM (SELLER/TRANSFEROR):

Name Palmdale Water District Street Address 2029 E Avenue Q

City Palmdale State CA Zip Code 93550

Phone 661-456-1092 email pthompsonii@palmdalewater.org

APN#(s) where transfer originates (i.e., production well location(s)) See Attached Map

APN#(s) (or water supply service area) where groundwater was used See Attached Map

TRANSFER TO (BUYER/TRANSFeree):

Name Littlerock Creek Irrigation District Street Address 35141 87th Street E

City Littlerock State CA Zip Code 93543

Phone 661-944-2015 email jchaisson@lrcid.com

Note: Legal notices under the Judgment will be sent to the above email address. You are required to keep this information up to date. Please notify the Watermaster of any changes.

APN#(s) (or water supply service area) where transfer will be pumped and used Littlerock Creek Irrigation District Service Area

Purpose of Transfer:

- ☐ Permanent Transfer resulting from Property Sale/Transfer [PLEASE ATTACH DEED OR PRELIMINARY TITLE REPORT]
☒ Additional Source of Water
☐ Other, explain _____

Water is to be Transferred from/to: (transferred water retains its original water type):

- ☒ Current Year Production Right: amount 250 _____ acre-feet
☐ Carry Over Water: amount _____ acre-feet
☐ Storage: amount _____ acre-feet
☐ Other, explain _____

(Transferred water retains its original water type – e.g., transferred Carry Over Water remains Carry Over water)

WATER QUALITY AND WATER LEVELS (not required if transfer is in association of change of land ownership)

Are Parties aware of any water quality issues that exist in either the area transferred from or to? Yes or No
If yes, please explain: _____

Please provide groundwater elevations in the areas affected by the transfer. PWD ranges from 2800' to 3500'
LCID ranges from 2700' to 2845'

Are Parties aware of any water level issues that exist in either the area transferred from or to? Yes or No
If yes, please explain: _____

MAPS

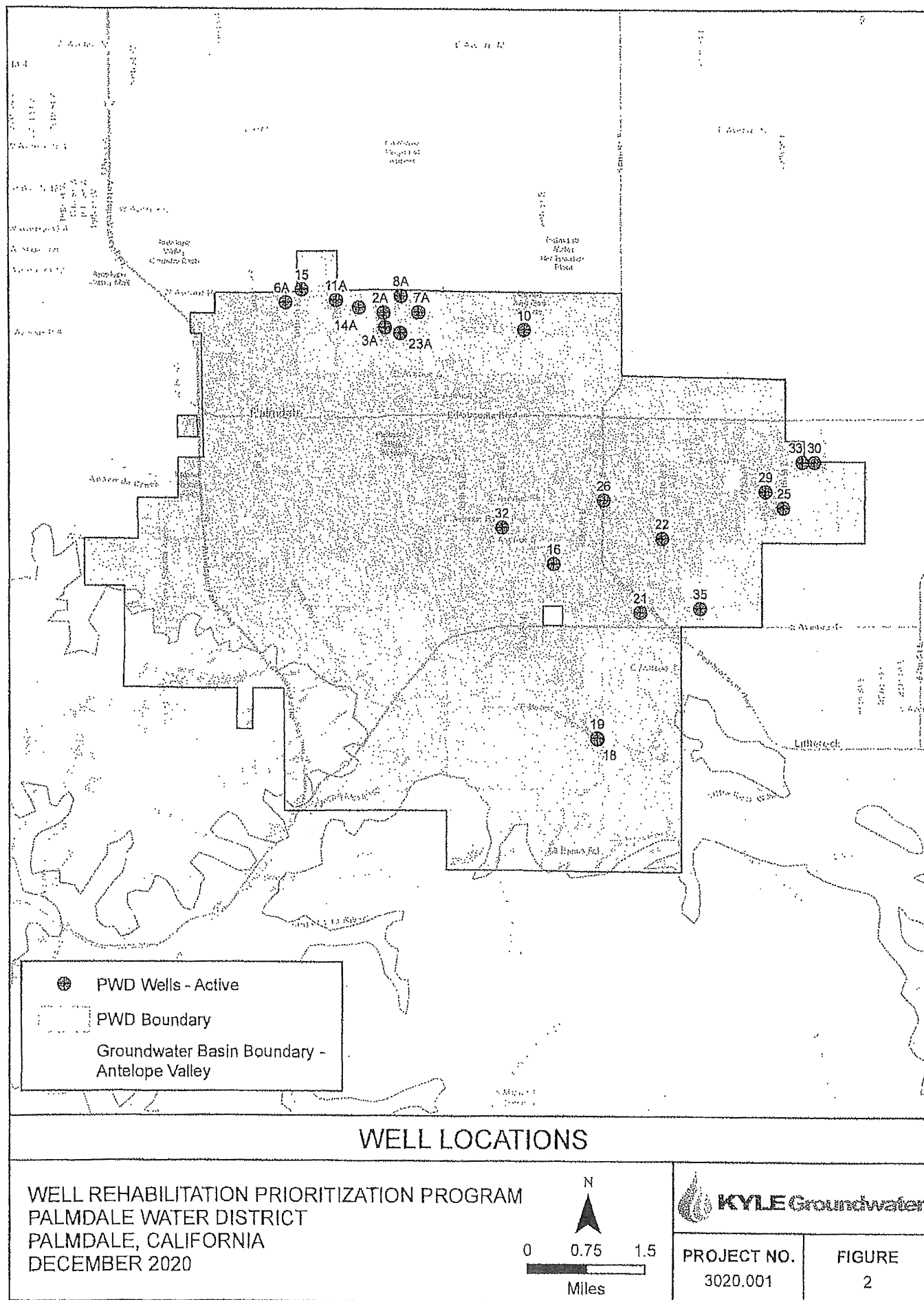
➡ Please include a map of the area where the water was used by the Transferor and a map of the area where the water is intended to be used by the Transferee. Include locations of production facilities involved in or affected by the Transfer. This map can include all possible locations of past source and use and future source and use.

SECURITY INTEREST OR LIENHOLDERS

For Permanent Transfers, please provide a list of all parties with a recorded security interest, deed of trust or a lien in such real property or in crops growing or to be grown thereon, and attach copies of written notices to such parties and copies of return receipts. _____

The transfer shall be conditioned upon:

1. Transferee shall succeed to the right of Transferor under the terms of the Judgment.
2. Transferee shall only use Transferred waters for reasonable and beneficial uses.
3. Any Transferee not already a Party to the Judgment must intervene and become a Party to the Judgment.
4. All applicable assessments (Administrative and Balance) and transfer fees are paid in full.
5. If the Watermaster determines that the transfer has resulted in a material injury, the parties will be required to work with the Watermaster Board to mitigate that material injury.
6. For Permanent Transfers, the Parties agree to duly record in the office of the appropriate County Recorder a document reflecting the Permanent Transfer reflected in this Transfer Form.
7. The Transfer Request Form must bear the notarized signatures of both the transferor and the transferee.
8. The Seller/Transferor must be the owner of the water rights pursuant to the Judgment. No Party may transfer water rights held pursuant to a lease agreement or other private contract with the actual water rights owner.



SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I swear under penalty of perjury that the information provided on this Transfer Request Form is correct to the best of my knowledge, that I am authorized to enter into this Transfer on behalf of the party indicated below and to bind that party on whose behalf I am signing, and that signing this Transfer Request Form is within the scope of my authority, and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Transferor *Quinn O. Rasmussen* Date 3/22/23
 Signature of Transferee *[Signature]* Date 3/22/23

To be completed by the Watermaster:

Watermaster Engineer Approval *Phyllis A. Stanim* Date 4/7/2023

Watermaster Board Approval _____ Date _____

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer 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

County of Los Angeles

On 3/20/2023 before me, Lizette Ortiz, Notary Public
 Date Here Insert Name and Title of the Officer

personally appeared James Chaisson
 Name(s) of Signer(s)

who proved to me 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), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, 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.



Place Notary Seal and/or Stamp Above

Signature Lizette Ortiz
 Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Transfer Request Form

Document Date: 2/08/2023 Number of Pages: 5

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
<input type="checkbox"/> Corporate Officer – Title(s): _____	<input type="checkbox"/> Corporate Officer – Title(s): _____
<input type="checkbox"/> Partner – <input type="checkbox"/> Limited <input type="checkbox"/> General	<input type="checkbox"/> Partner – <input type="checkbox"/> Limited <input type="checkbox"/> General
<input type="checkbox"/> Individual <input type="checkbox"/> Attorney in Fact	<input type="checkbox"/> Individual <input type="checkbox"/> Attorney in Fact
<input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator	<input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____
Signer is Representing: _____	Signer is Representing: _____

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer 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

County of LOS ANGELES

On MARCH 20, 2023 before me, DANIELLE HENRY, NOTARY PUBLIC
 Date Here Insert Name and Title of the Officer

personally appeared DENNIS D. LA MOREAUX
 Name(s) of Signer(s)

who proved to me 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), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal and/or Stamp Above

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.

Signature [Signature]
 Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: TRANSFER REQUEST FORM

Document Date: 2.8.23 Number of Pages: 5

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☒ Other: GENERAL MANAGER

Signer is Representing: _____

PAUNDALE WATER DISTRICT

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

MULTI-YEAR AGREEMENT AMONG
THE DEPARTMENT OF WATER RESOURCES OF THE STATE OF CALIFORNIA,
LITTLE ROCK CREEK IRRIGATION DISTRICT,
AND
PALMDALE WATER DISTRICT
FOR
A NON-PERMANENT TRANSFER OF A PORTION
OF
LITTLE ROCK CREEK IRRIGATION DISTRICT'S
STATE WATER PROJECT TABLE A WATER
TO
PALMDALE WATER DISTRICT

SWP #22031

THIS AGREEMENT is made under the provisions of the California Water Resources Development Bond Act, and other applicable laws of the State of California among the Department of Water Resources of the State of California, herein referred to as "DWR," Littlerock Creek Irrigation District, herein referred to as "LCID," and Palmdale Water District, herein referred to as "PWD." DWR, LCID, and PWD may be referred to individually as "Party" or collectively as "Parties."

SWP #22031

RECITALS

- A. DWR and PWD have entered into a water supply contract, dated February 2, 1963, and subsequently amended, providing that DWR shall supply certain quantities of water to PWD, providing that PWD shall make certain payments to DWR, and setting forth the terms and conditions of such deliveries and payment (hereinafter the "PWD Water Supply Contract").
- B. DWR and LCID have entered into a water supply contract, dated June 22, 1963, as amended, providing that DWR shall supply certain quantities of water to LCID, providing that LCID shall make certain payments to DWR, and setting forth the terms and conditions of such water supply and payment (hereinafter the "LCID Water Supply Contract").
- C. On September 28, 2022, LCID and PWD entered into an agreement entitled "Water Transfer Agreement" (LCID/PWD Water Transfer Agreement). The LCID/PWD Water Transfer Agreement provides for an annual transfer of no less than 75% and no more than 100% of LCID's approved State Water Project (SWP) Table A water (LCID's Table A Water), up to 2,300 acre-feet per year, to PWD through December 31, 2035.
- D. LCID and PWD have requested DWR's approval for a non-permanent transfer of up to 2,300 acre-feet per year of LCID's Table A Water to PWD through December 31, 2035.
- E. LCID and PWD confirm that the transfer under this Agreement satisfies the criteria in Article 57(d) and Article 57(g) of LCID's and PWD's respective Water Supply Contract and have provided supporting documentation to DWR demonstrating compliance, which DWR has considered in approving the transfer request.
- F. In compliance with the California Environmental Quality Act (CEQA), PWD, as the lead agency, prepared and approved an Initial Study and Negative Declaration (IS/ND) to address the environmental consequences of the proposed multi-year water transfer from LCID to PWD, concluding that the proposed multi-year water transfer would not have a significant impact on the environment. PWD filed a Notice of Determination (NOD) with the State Clearinghouse (SCH) on April 1, 2022 (SCH #2022020458). DWR, as a responsible agency, has reviewed the IS/ND and considered the environmental effects of the project prior to reaching its decision to approve this Agreement. DWR will file a NOD with SCH upon execution of this Agreement.

SWP #22031

AGREEMENT

DWR approves the non-permanent transfer of a portion of LCID's Table A Water, up to 2,300 acre-feet per year, to PWD, subject to the LCID/PWD Water Transfer Agreement and the following terms and conditions:

TERM

1. This Agreement shall become effective upon execution by all Parties, and shall terminate on December 31, 2035, or upon final payments to DWR of all costs attributable to this Agreement, whichever occurs later. However, the liability, hold harmless and indemnification obligations in this Agreement shall remain in effect until the expiration of the applicable statute of limitations, or until any claim or litigation concerning this Agreement asserted to DWR, LCID, or PWD within the applicable statute of limitations is finally resolved, whichever occurs later.

UNIQUENESS OF AGREEMENT

2. DWR's approval to transfer a portion of LCID's Table A Water to PWD under this Agreement is unique and shall not be considered a precedent for future agreements or DWR activities.

APPROVALS

3. The delivery of water under this Agreement shall be contingent upon, and subject to, any necessary approvals and shall be governed by the terms and conditions of such approvals and any other applicable legal requirements. LCID and PWD shall be responsible for complying with all applicable legal requirements and for securing any required consent, approvals, permits, or orders. LCID and PWD shall furnish to DWR copies of all approvals and agreements required for the delivery of water under this Agreement.

EARLY TERMINATION OR MODIFICATION

4. LCID and PWD shall notify DWR in writing if LCID and PWD decide to terminate the LCID/PWD Water Transfer Agreement prior to December 31, 2035. In the event the LCID/PWD Water Transfer Agreement is terminated, this Agreement shall terminate effective the same day that the LCID/PWD Water Transfer Agreement is terminated, and no water shall be scheduled or delivered to PWD under this Agreement after such termination.
5. If LCID and PWD decide to modify or amend the LCID/PWD Water Transfer Agreement prior to December 31, 2035, LCID and PWD shall notify DWR in writing and provide to DWR a copy of the proposed amended agreement between LCID and PWD. Any such amended agreement shall comply with Article 56(d) and Article 57 of LCID's and PWD's respective Water Supply Contracts. If DWR determines that the amended agreement does not comply with Article 56(d), Article 57 or any other provisions of LCID's and PWD's

SWP #22031

respective Water Supply Contracts, the Parties shall meet and seek to bring the amended agreement in compliance with the relevant Water Supply Contract provisions. If the Parties cannot reach an agreement, DWR shall have the right to terminate this Agreement.

6. Termination of this Agreement shall not affect LCID's and PWD's obligations to pay all amounts owing to DWR pursuant to this Agreement.

NO EXCEEDANCE OF LCID'S TABLE A ALLOCATION

7. In any given year, the amount of LCID's Table A Water transferred under this Agreement and any other transfer or exchange agreement, plus the amount of LCID's Table A Water delivered to LCID or stored outside of LCID's service area under Article 56 of LCID's Water Supply Contract, shall not exceed the Table A amount allocated to LCID for that year.

DELIVERY OF LCID'S TABLE A WATER TO PWD

8. DWR will deliver up to 2,300 acre-feet per year of LCID's Table A Water to PWD's turnout(s) in Reach 20B of the California Aqueduct through December 31, 2035.
9. Water delivered to PWD under this Agreement shall be used in PWD's service area, which is within the SWP place of use.
10. The delivery of water to PWD under this Agreement shall be in accordance with schedules reviewed and approved by DWR. DWR's approval is dependent upon the times and amounts of the delivery and the overall delivery capability of the SWP. DWR shall not be obligated to deliver the water at times when such delivery would adversely impact SWP operations, facilities, or other SWP contractors.
11. In any given year, the sum of deliveries scheduled to PWD under this Agreement, plus scheduled PWD SWP water deliveries, plus deliveries to PWD under any other agreements, shall not exceed the quantities on which the Proportionate Use-of-Facilities factors are based under PWD's Water Supply Contract with DWR unless DWR determines that deliveries will not adversely impact SWP operations, facilities, or other SWP contractors.

WATER DELIVERY SCHEDULES

12. All water delivery schedules and revisions shall be in accordance with Article 12 of LCID's and PWD's respective Water Supply Contracts with DWR.
13. In coordination with LCID, PWD shall submit monthly water delivery schedules and revised monthly schedules, if any, for approval to the Division of Operation and Maintenance, Office of the Division Manager, Water Deliveries Reporting Unit, indicating timing and point of delivery requested under this Agreement with

SWP #22031

reference to SWP #22031. Monthly schedules shall be sent by electronic mail to SWP-SWDS@water.ca.gov.

14. In coordination with LCID, PWD shall coordinate and submit weekly water schedules, indicating timing and point of delivery requested with reference to SWP #22031, by electronic mail by 10:00 am, Wednesday, for the following week, Monday through Sunday to the following:
 - a. Office of the Division Manager
Water Operation Scheduling Section
Water_deliv_sched@water.ca.gov
 - b. Office of the Division Manager
Power Management and Optimization Section
POCOptimization@water.ca.gov
 - c. Office of the Division Manager
Day-Ahead Scheduling Unit
Presched@water.ca.gov
 - d. Office of the Division Manager
Operations Reporting Unit
OCO_car_reprt@water.ca.gov
PHONE (916) 574-2677
 - e. Southern Field Division
Water Operation Section
SFDwaterschedule@water.ca.gov

WATER DELIVERY RECORDS

15. DWR will maintain monthly records accounting for the delivery of LCID's Table A Water to PWD under this Agreement.

CHARGES

16. PWD shall pay to DWR the charges associated with the delivery of water under this Agreement, including all future adjustments, which shall be calculated in the same manner as charges are calculated for SWP Table A deliveries and shall be in accordance with the provisions of PWD's Water Supply Contract. Charges shall be determined for the year the water is delivered to PWD.
 - a. When DWR delivers LCID's Table A Water to PWD, PWD shall pay to DWR the associated charges from the Delta to PWD's turnout(s) in Reach 20B of the California Aqueduct. PWD shall pay to DWR the Variable Operation, Maintenance, Power, and Replacement Component of the Transportation Charge and the Off-Aqueduct Power Facilities cost

SWP #22031

that are in effect for each acre-foot of water delivered from the Delta to PWD's turnout(s).

17. In addition to the charges identified above, PWD agrees to pay to DWR any additional identified demonstrable increase in costs that would otherwise be borne by DWR or by the SWP contractors not signatory to this Agreement as a result of DWR providing service under this Agreement.
18. Payment terms under this Agreement shall be in accordance with PWD's Water Supply Contract.
19. All payments under this Agreement not covered under PWD's Water Supply Contract with DWR shall be due 30 days after the date of DWR's billing. DWR shall charge interest if payments are delinquent by more than 30 days. PWD shall pay to DWR accrued interest on all overdue payments at the rate of one percent (1%) per month from the due date to the date of payment.

NO IMPACT

20. This Agreement shall not be administered or interpreted in any way that would cause adverse impacts to SWP approved Table A water or to any other SWP approved water allocations, water deliveries, or SWP operations or facilities. This Agreement shall not impact the financial integrity of the SWP and shall not harm other SWP contractors not participating in this Agreement. LCID and PWD shall be responsible, jointly and severally, as determined by DWR, for any adverse impacts that may result from water deliveries under this Agreement. DWR retains the right to review and reconsider its approval under this Agreement if DWR determines that delivery of water under this Agreement results in unavoidable adverse impacts to the SWP or other SWP contractors not participating in this Agreement.

LIABILITY

21. DWR is not responsible for the use, effects or disposal of water under this Agreement once the water is delivered to the designated turnout(s). Responsibility shall be governed by Article 13 of PWD's Water Supply Contract, with responsibilities under the terms of that article shifting from DWR to PWD when the water is delivered to the designated turnout(s).
22. LCID and PWD agree to defend and hold DWR, its officers, employees, and agents harmless from any direct or indirect loss, liability, lawsuit, cause of action, judgment or claim, and shall indemnify DWR, its officers, employees, and agents from all lawsuits, costs, damages, judgments, attorneys' fees, and liabilities that DWR, its officers, employees, and agents incur as a result of DWR approving this Agreement or providing services under this Agreement, except to the extent resulting from the sole negligence or willful misconduct of DWR, its officers, employees, and agents.

SWP #22031

23. If uncontrollable forces preclude DWR from delivery of water under this Agreement, either partially or completely, then DWR is relieved from the obligation to deliver the water under this Agreement to the extent that DWR is reasonably unable to complete the obligation due to the uncontrollable force. Uncontrollable forces shall include, but are not limited to, earthquakes, fires, tornadoes, floods, and other natural or human caused disasters. LCID and PWD shall not be entitled to recover any administrative costs or other costs associated with delivery of water under this Agreement if uncontrollable forces preclude DWR from delivering the water.

DISPUTE RESOLUTION

24. In the event of a dispute regarding interpretation or implementation of this Agreement, the Director of DWR and general managers of LCID and PWD, or their authorized representatives, shall endeavor to resolve the dispute by meeting within 30 days after the request of a Party. If the dispute remains unresolved, the Parties shall use the service of a mutually acceptable consultant in an effort to resolve the dispute. Parties involved in the dispute shall share the fees and expenses of the consultant equally. If a consultant cannot be agreed upon, or if the consultant's recommendations are not acceptable to the Parties, and unless the Parties otherwise agree, the matter may be resolved by litigation and any Party may, at its option, pursue any available legal remedy including, but not limited to, injunctive and other equitable relief.

ASSIGNMENT OF AGREEMENT

25. Without the prior written consent of DWR, LCID, and PWD, this Agreement is not assignable by LCID or PWD in whole or in part.

PARAGRAPH HEADINGS

26. The paragraph headings of this Agreement are for the convenience of the Parties and shall not be considered to limit, expand, or define the contents of the respective paragraphs.

OPINIONS AND DETERMINATION

27. Where the terms of this Agreement provide for actions to be based upon the opinion, judgment, approval, review, or determination of any Party, such terms are to be construed as providing that such opinion, judgment, approval, review, or determination be reasonable.

MODIFICATION OF AGREEMENT

28. No modification of the terms and conditions of this Agreement shall be valid unless made in writing and signed by the Parties to this Agreement.

SWP #22031

NO MODIFICATION OF WATER SUPPLY CONTRACT

29. This Agreement shall not be interpreted to modify the terms or conditions of LCID's and PWD's respective Water Supply Contract. Unless expressly provided herein, the terms and conditions of LCID's and PWD's respective Water Supply Contract and any future amendments apply to this Agreement.

SIGNATURE CLAUSE

30. The signatories represent that they have been appropriately authorized to enter into this Agreement on behalf of the Party for whom they sign. A copy of any resolution or other documentation authorizing LCID and PWD to enter into this Agreement, if such resolution or authorization is required, shall be provided to DWR before the execution of this Agreement.

EXECUTION

31. The Parties agree that this Agreement will be executed using DocuSign by electronic signature, which shall be considered an original signature for all purposes and shall have the same force and effect as an original signature.
32. All Parties will receive an executed copy of this Agreement vis DocuSign after all Parties have signed.

SWP #22031

IN WITNESS WHEREOF, the Parties hereto have entered into this Agreement.

Approved as to Legal Form
and SufficiencySTATE OF CALIFORNIA DEPARTMENT
OF WATER RESOURCES*Thomas Gibson**LD*_____
Thomas Gibson
General Counsel
Department of Water Resources*John Leahigh*_____
John Leahigh
Assistant Division Manager,
Water Management
Division of Operations and Maintenance

12/8/2022

Date

12/12/2022

DateLITTLEROCK CREEK IRRIGATION
DISTRICT

PALMDALE WATER DISTRICT

*James Charlyson*_____
Name

General Manager

Title

12/8/2022

Date*Dennis LaMoreaux*_____
Name

General Manager

Title

12/8/2022

Date

WATER TRANSFER AGREEMENT

THIS WATER TRANSFER AGREEMENT ("Agreement") is made and entered into this 28th day of September, 2022, by and between LITTLE ROCK CREEK IRRIGATION DISTRICT, a California Irrigation District ("LCID") and PALMDALE WATER DISTRICT, a California Irrigation District ("PWD"). LCID and PWD are sometimes individually referred to as "Party" or collectively as "Parties."

RECITALS

A. LCID is an irrigation district organized under the Irrigation District Law, codified at Sections 20500 et seq. of the California Water Code.

B. PWD is also an irrigation district organized under the Irrigation District Law, codified at Sections 20500 et seq. of the California Water Code.

C. LCID and PWD seek to enter into a mutually beneficial transfer of a portion of LCID's State Water Project ("SWP") annual Table A water ("Entitlement Water"), to which LCID is entitled pursuant to its water supply contract with the California Department of Water resources ("DWR").

D. The purpose of this Agreement is to set forth financial and other arrangements between LCID and PWD for LCID's transfer of a portion of its annual Entitlement Water to PWD, and to define the roles, obligations, and responsibilities of the Parties with regard to such transfer.

AGREEMENT

Now therefore, in consideration of the mutual covenants and agreements set forth herein, the Parties do contract and agree as follows:

1. Recitals Incorporated.

The foregoing recitals are true and correct and are incorporated herein by reference as if set forth in full.

2. Transfer of LCID Entitlement Water.

(a) Subject to the provisions of Section 3 of this Agreement, and for the term of this Agreement, LCID hereby transfers its right to receive a portion of its State Water Project ("SWP") annual Table A water ("Entitlement Water") to PWD. Subject to Section 3 of this Agreement, PWD shall be entitled to receive an amount not less than 75% of LCID's annual Entitlement Water and not more than 100% of LCID's annual Entitlement Water.

(b) No later than thirty (30) days from the date of DWR's final annual allocation of SWP Table A water, LCID shall notify PWD in writing of the estimated annual amount of LCID's Entitlement Water that is available to PWD for such year. PWD shall, within twenty (20) days,

confirm to LCID its receipt of the notice and the amount of Entitlement Water that PWD will accept that year.

(c) The Parties shall advise DWR of any transfer of annual LCID Entitlement Water from LCID to PWD, and shall satisfy all conditions and guidelines mandated by DWR for the transfer thereof. The delivery of water pursuant to this Agreement shall be contingent on and subject to any necessary DWR approvals and shall be governed by the terms and conditions of such approval(s) and any other applicable federal, state, and local statutes and regulations. PWD shall, at its sole cost and expense, apply for and obtain all necessary approvals, permits, licenses and/or entitlements, if any, from all governmental agencies, including without limitation, DWR, necessary for the transfer of Entitlement Water by LCID to PWD under this Agreement.

3. LCID Retention Option.

(a) LCID shall have an annual option each calendar year during the term of this Agreement to retain up to 25% of its Entitlement Water.

(b) Should LCID exercise its option to retain its Entitlement Water pursuant to Section 3(a) for its own use, LCID shall notify PWD in writing of the same no later than thirty (30) days from the date of DWR's final annual allocation of SWP Table A water. The notice to be provided pursuant to this Section 3(b) shall specify the percentage of the Entitlement Water LCID will retain for the calendar year the option is exercised.

(c) In the event LCID exercises its option pursuant to section 3(a) above, LCID shall have no obligation to deliver to PWD the amount of Entitlement Water it retains for the calendar year in which the option was exercised. PWD shall have no obligation to pay LCID for any Entitlement Water LCID retains for its own use.

(d) Should the Parties agree to revise this Agreement to change the amount of Entitlement Water LCID may retain annually, any such revision may be made pursuant to mutual written agreement of the Parties in the years 2025 and/or 2030.

4. Delivery of Entitlement Water.

(a) LCID, in coordination with PWD shall submit monthly water delivery schedules to DWR for delivery of the water for transfer to PWD.

(b) LCID's point of delivery to PWD shall be San Luis Reservoir.

(c) PWD shall be responsible for paying the DWR Variable charges from the San Luis Reservoir to PWD's chosen point of final delivery.

(d) Deliveries shall be verified using DWR's Monthly Water Delivery Status Reports.

(e) LCID and its officers, agents, and employees shall not be liable to PWD or its officers, agents, employees, or any other interested parties for any direct, indirect, special, incidental, or consequential costs, losses, or damages arising from any failure of DWR to deliver SWP Table A water to LCID. In addition, LCID and its officers, agents, and employees shall not be liable to PWD or its officers, agents, employees, or any other interested parties for any direct,

indirect, special, incidental, or consequential costs, losses, or damages including, but not limited to, any lost profit or revenue, resulting from any water shortage or interruption, any reduction in the amount of LCID's Entitlement Water, and/or other events beyond LCID's reasonable control. PWD shall defend and indemnify LCID, its officers, agents, and employees from and against any and all liability, claims, losses, damages, or expenses, including reasonable attorneys' fees, arising from any acts or omissions to act of LCID, its officers, agents, or employees relating to the receipt and distribution of the Entitlement Water under this Agreement.

5. Payment.

(a) The payment amount owed by PWD to LCID each calendar year shall be a proportional rate calculated by multiplying \$400,000 by the total percentage of Entitlement Water transferred by LCID to PWD that year, except as provided in Section 5(c) of this Agreement. By way of example, if PWD were to receive 75% of LCID's Entitlement Water in a calendar year, the payment amount owed to LCID would be \$300,000 for that year.

(b) LCID shall prepare monthly billings to PWD for deliveries of LCID Entitlement Water made pursuant to this Agreement. Such billings shall be paid by PWD within thirty (30) calendar days following the date of LCID's invoice, and shall be submitted to the address specified in Section 17 of this Agreement. The cost for water billed by LCID shall be calculated by LCID.

(c) In any calendar year in which LCID receives 20% or less of its full annual SWP Table A water allocation, PWD may choose to make payment to LCID for Entitlement Water transferred to PWD that year by a groundwater transfer to LCID. The payment by groundwater transfer would be in lieu of any financial payment. The amount of groundwater transfer payment for receiving 100% of the LCID's Entitlement Water in that year shall be 250 acre feet (AF), subject to the approval of the Antelope Valley Watermaster. If any such groundwater transfer is approved by the Antelope Valley Watermaster, the groundwater shall be transferred by PWD to LCID no later than August 1st of the year in which payment is to be made by PWD pursuant to this Section 5(c). The Antelope Valley Watermaster's approval of any such groundwater transfer is a condition precedent to the payment arrangement authorized by this Section 5(c). If any such groundwater transfer is not approved by the Antelope Valley Watermaster, payments for Entitlement Water transferred by LCID to PWD shall be calculated pursuant to Section 5(a).

6. Term. This Agreement shall be effective upon the date it is fully executed by the Parties hereto and shall remain in effect through December 31, 2035, unless earlier terminated as provided herein. This Agreement may be extended by mutual written agreement of the Parties through written amendment only if the Parties' SWP water supply contracts with DWR are extended past 2035.

7. Headings. The Section headings contained in this Agreement are inserted for convenience only and shall not affect in any way, and shall not be considered in, the meaning or interpretation of this Agreement.

8. **Integration.** This Agreement represents the entire understanding of the Parties. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by this Agreement.

9. **Assignment.** Neither Party may assign either this Agreement or any of its rights, interests, or obligations hereunder without the prior written approval of the other Party.

10. **Third Parties.** This Agreement shall not be binding upon, inure to the benefit of, or confer rights upon any person or entity that is not a party to this Agreement.

11. **Amendments.** This Agreement may be amended or modified only in writing signed by the Parties.

12. **Termination.** This Agreement may be terminated with the mutual written consent of both Parties, or in the event of a breach, this Agreement may be terminated at the election of the non-defaulting party.

13. **Force Majeure.** Any prevention, delay, nonperformance, or stoppage due to any of the following causes shall excuse nonperformance for a period equal to the duration of the force majeure event. The causes referred to above are strikes, fires, earthquakes, floods, epidemics, quarantine restrictions, walkouts, labor disputes, failure of power, irresistible superhuman cause, acts of public enemies of the State or United States, riots, insurrections, civil commotion, governmental restrictions or regulations or controls (except those reasonably foreseeable in connection with the uses contemplated by this Agreement), or other causes beyond the reasonable control of the Party obligated to perform.

14. **Partial Invalidity.** If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions will nevertheless continue in full force and effect without being impaired or invalidated.

15. **Applicable Law.** This Agreement shall be construed in accordance with and governed by the laws of the State of California.

16. **Attorney's Fees.** If any action is instituted to enforce this Agreement, the prevailing party shall be reimbursed all reasonable attorneys' fees, costs of collection, as well as any other costs and expenses incurred in connection with the enforcement effort.

17. **Notices.** Any notice required by this Agreement to be given or delivered to any Party shall be deemed to have been received when personally delivered or mailed in the United States mail addressed as follows:

Little Rock: Little Rock Creek Irrigation District
 35141 87th St E
 Little Rock, CA 93543
 Attn: General Manager

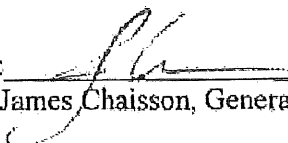
Palmdale: Palmdale Water District
 2029 E Ave Q
 Palmdale, CA 93550
 Attn: General Manager

18. Execution and Counterparts. This Agreement may be executed in one or more counterparts, and all the counterparts shall constitute but one and the same agreement, notwithstanding that all Parties hereto are not signatories to the same or original counterpart. The counterparts of this Agreement may be executed and delivered by electronic signature by any or all of the Parties and the Parties may rely on the electronic signature as if it were an original signature.

19. Limitation of Waiver. Except as may be expressly provided in a writing signed by the Parties, the failure or delay of either Party to insist in any instance on strict performance of any provision of this Agreement shall not be construed as a waiver of any such provision or the relinquishment of any rights under that provision in the future, but the same shall continue and remain in full force and effect.

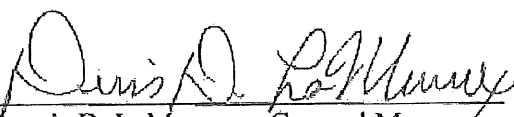
IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed as of the date of the latest signature below.

LITTLEROCK CREEK IRRIGATION DISTRICT

By: 
 James Chaisson, General Manager

Dated: 9/28/2022

PALMDALE WATER DISTRICT

By: 
 Dennis D. LaMoreaux, General Manager

Dated: 9/28/2022

From: [Joshua Montoya](#)
To: [Arden Wells](#)
Cc: [Phyllis Stanin](#)
Subject: RE: Transfer Request PWD to LCID
Date: Thursday, March 23, 2023 2:23:50 PM

Arden,

Please see LCID response below. Let me know if you need any further information.

We have an agreement with LCID that in 20% or less SWP allocation years they will give us their Table A surface water, and we will transfer them 250AF of groundwater. This transfer is for the year 2022 where our allocation was only 5%.

LCID rotates their pumping among their 4 wells, so there is not one specific well that they will be using more. By receiving the Table A we were able to use more surface water instead of pumping from our wells.

Thank you,
 Joshua Montoya
 Project Coordinator
 (661) 316-9340

HALLMARK Capital
GROUP Program
 Management

Persistence | Proficiency | Performance

Corporate (916) 923-1500
www.hgcpm.com

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From: Arden Wells <Awells@toddgroundwater.com>
Sent: Thursday, March 23, 2023 11:12 AM
To: Joshua Montoya <jmontoya@hgcpm.com>
Cc: Phyllis Stanin <PStanin@toddgroundwater.com>
Subject: RE: Transfer Request PWD to LCID

Hi Joshua,

Could you ask the parties to specify the following:

1. Can LCID provide more details about why they want this water? Is it for a particular use or just to compensate for Rampdown changes?
2. Does LCID intend to produce more from particular wells in the future?

3. Does PWD intend to produce less from particular wells in the future?

We have coordinates for all of the wells, so we don't need APNs.

Thanks!

Arden

Arden Alana Wells, PG
Associate Geologist



2490 Mariner Square Loop, Suite 215
 Alameda, CA 94501
 510.747.6920 x119
awells@toddgroundwater.com
www.toddgroundwater.com

BY RECEIVING THIS ELECTRONIC INFORMATION, including all attachments, the receiver agrees that this data may not be modified or transferred to any other party without the prior written consent of Todd Groundwater; that this electronic information may not necessarily represent the information shown on the recorded or approved final developments and/or documents; and that the receiver is responsible for verifying the information contained within the electronic data against the recorded or approved final documents. This privileged and confidential information is intended only for the use of the addressee(s) named above. Anyone who receives this communication in error should notify the sender immediately by reply e-mail.

From: Joshua Montoya <jmontoya@hgcpm.com>
Sent: Thursday, March 23, 2023 10:34 AM
To: Arden Wells <Awells@toddgroundwater.com>
Subject: Transfer Request PWD to LCID

Arden,

Please find attached a transfer Request PWD to LCID. They did not provide the APN's for the service area, instead they provided a map. Take a look and let me know if you need the APN's.

Thank you,
 Joshua Montoya
 Project Coordinator
 (661) 316-9340



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Corporate (916) 923-1500
www.hgcpm.com

Confidentiality Note: The information contained in this email and document(s) attached are for the exclusive use of the addressee and may contain confidential, privileged and non-disclosable information. If the recipient of this email is not the addressee, such recipient is strictly prohibited from reading, photocopying, distributing or otherwise using this email or its contents in any way.

Resolution No. R-23-04

New Production Application – Barrel Springs

RESOLUTION NO. R-23-04

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT;
ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment ("Judgment"), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for new production is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that application for new production be denied or approved, and that approval may be pursuant to certain conditions such as payment of a replacement water assessment; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings, including that the applicant has a right to produce groundwater under the Judgment or otherwise agrees to purchase replacement water, that all conditions for new production are met under the Judgment and the Rules and Regulations, and that no Material Injury will result from the proposed production; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the application listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for new production or new point of extraction of those Parties or Persons whose names and information are listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-04 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held on April 26, 2023, in Palmdale, California.

Date: _____

ATTEST: _____
Jessica Alwan – Secretary

Robert Parris, Chairman

**Exhibit A Attachment to
Resolution No. R-23-04**

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT**

APN#	Amount Requested	Use of Well	Subarea	Applicant/Property Owner
3052-016-017 & 3052-16-017 & 3052-026-050	120 AF	Agriculture	Central	Barrel Springs Properties, LLC

January 11, 2023

Robert Parris, Chair
Antelope Valley Watermaster Board of Directors

Re: APN# 3052-016-017 (Barrel Springs Properties, LLC) New Production Application Findings

Watermaster Board:

Barrel Springs Properties, LLC, is proposing a 125-acre Farming and Farmworker Housing Development Community (Project) located northwest of the intersection of Barrel Springs Road and 40th Street East, just south of the City of Palmdale. It includes APN's 3052-16-017 & 010, and 3052-026-050. The applicant is a Party to the Judgment because they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5-22 of the Judgment.

The proposed Project is in the Central Antelope Valley Subarea and will be used as agricultural land for grazing, crops, orchards, and small animal husbandry. The project would also include affordable housing for farmworkers. The applicant is requesting 120 AFY for this development. A proposed well located on APN 3052-016-017 would provide water for domestic use for the housing units, landscape irrigation and agricultural use on the property. This project is sponsored by The People Concern, a 501(c)(3) Non-profit Organization for Public Benefit.

The proposed development will occur on approximately 58 acres and include the following:

- 48 farmworker housing units (each 980 square feet (sf) for a total of 47,040 sf) to house an estimated 144 individuals
- multipurpose center (6,000 sf)
- dining hall (4,500 sf)
- caretaker's house (1,200 sf)
- storage garage (1,600 sf)
- produce stand (1,000 sf)
- landscaping - annual grasses and flowers (357,192 sf)
- row crop vegetable gardens - broccoli, carrots, potatoes, onions, peppers, lettuce (12.1 acres)
- orchard - peaches, apples, oranges (24.7 acres)
- farm animals within the orchard area.

Water conservation measures will include low-flow fixtures in residential kitchens and bathrooms and drought-tolerant plants in the landscaped areas with

drip irrigation systems. The project will use water conservation practices and designed as Certified LEED Platinum for indoor and outdoor use.

Domestic Water Use. In total, there would be about 61,340 sf of buildings, with 145 bathrooms and 8 half bathrooms. The per capita use is expected to be 55 gallons per day, an equivalent of 8.87 AFY for 144 people. Additional support services would use another 10 percent (0.89 AFY) for a total domestic use of 9.8 AFY.

Landscaping and Irrigated Agricultural Water Use. The property will have about 40.1 acres of irrigated areas. The applicant calculated that irrigation needs will be approximately 108 AFY. This equates to about a 3 AFY/acre water use rate ($108\text{AFY}/40.1\text{A}=2.96\text{AFY/ac}$). All landscape around building areas will be xeriscape.

Figure 1 shows the location of the proposed Barrel Springs project in the southern portion of the Central Antelope Subarea, generally located along Barrel Springs Road south of the California Aqueduct. The parcel and proposed well are located within the service area of Palmdale Water District (District). The District has notified the applicant that there is some infrastructure located within proximity of the parcel; however, the parcel lies at a higher elevation than can be served by the District's existing system, and improvements to the District's system would be necessary to serve the parcel. The owner may elect to either construct the necessary water system improvements so the District can serve the parcel or seek approval through the Antelope Valley Watermaster for the construction of a private well. The applicant has chosen a private well for water supply. The closest Palmdale Water District well is more than one mile southeast of the Barrel Springs parcel.

The District's letter also indicated that the District's Palmdale Ditch transverses the parcel along its lowest elevation. The District will require the Palmdale Ditch to be covered so that the ditch is not negatively impacted by water runoff from the parcel.

The parcel is located within the San Andreas Fault Zone, consisting of several parallel to sub-parallel faults that transect the property (**Figure 1**). These faults deform the subsurface geology in this area, resulting in a relatively thin veneer of older alluvial deposits on top of steeply-dipping bedrock units (e.g., Anaverde Formation) of Pliocene age. Bedrock crops out along this margin of the groundwater basin within a few miles of the property. Locally, faults compartmentalize subsurface geological units and can impede and redirect groundwater flow. In this manner, faults may act as full or partial barriers to groundwater such that pumping on one side of the fault may not affect groundwater levels on the other side of the fault.

Figure 2 shows Spring 2022 groundwater level contours and water level hydrographs of USGS monitoring wells. The regional contours indicate groundwater flow from the San Gabriel mountains in the south towards the center of the Central Antelope Subarea. Locally, groundwater flow is expected to be more complex due to local faulting. The closest well monitored by USGS (#44401), is about 3 miles to the north and shows that water levels increased from 1997 to 2013 and then slightly declined between 2014 and 2022. However,

given the distance of this hydrograph (and other available hydrographs) from the project site – and in consideration of the local hydrogeologic complexity – these data may not be representative of groundwater trends on the Barrel Springs property. Nonetheless, considering the project’s upgradient location within the Basin, the undeveloped lands surrounding the parcels, and the nearby proximity of Palmdale Water District service areas, local groundwater levels are not expected to be declining in this area.

Applicant’s Analysis

The New Production Application included an analysis of potential physical and economic impacts from the proposed well prepared by Geosyntec (September 30, 2022). The analysis noted the geologic complexity of this area due to the San Andreas fault zone and exposed bedrock in this region, and the potential for compartmentalized small alluvial basins and limiting hydrogeologic continuity. It noted that several springs occur along the fault zone; this alignment of springs is a possible indicator of hydraulic discontinuities in the groundwater system.

The applicant’s analysis calculated aquifer transmissivity and hydraulic conductivity from nearby Driller Well Reports and used these data to calculate anticipated drawdown. Although aquifer parameters were not available near the property, the analysis was based on conservative assumptions to over-estimate potential impacts to existing wells. Parameters were estimated from specific capacity data and lithology from local Driller’s logs. The analysis assumed 0.5 feet/day for hydraulic conductivity, an aquifer thickness of 200 feet, and a transmissivity of 748 gallons per day per foot (gpd/ft).

The drawdown calculated for a location 1,000 feet away from the proposed well was estimated at about 25 feet if no hydraulic barrier existed between the proposed Barrel Springs well and the existing well. If a hydraulic barrier existed between the two wells, drawdown would likely be less. If an existing well were in the same small compartment bound by faulting, drawdown was predicted to increase to about 47 feet if the bounding faults were hydraulic barriers. However, this last assumption does not appear to be relevant to the current conditions at the Barrel Springs property, given the apparent lack of existing wells to the immediate northwest and southeast of the parcel (i.e., parallel to local faulting).

Material Injury Analysis

There is only sparse development in areas surrounding the parcel and no existing wells appear to be located within about 1,000 feet of the proposed well (see **Figure 3**). Geosyntec (September 30, 2022) identified potential existing wells in the vicinity of the proposed project (see Figure 2 in the attached Geosyntec report). The closest wells to the Barrel Springs property are likely domestic wells that serve several homes north and west of the property. The analysis suggested the closest well was located on a parcel about 0.25 miles (1,300 feet) north of the proposed well location, north of the California Aqueduct. However, that parcel appears to be undeveloped (no homes) according to county records and satellite imagery. The closest homes

are further to the north (about 2,000 feet away) and appear to be across several faults (including the more continuous trace); as such, it seems likely that they are partially or fully hydrogeologically disconnected from the area of the proposed Barrel Springs well. Other homes to the north and northwest are served by Palmdale Water District and are not likely vulnerable to domestic well impacts.

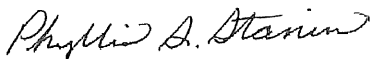
The estimated drawdown of 25 feet estimated for any wells about 1,000 feet from the proposed Barrel Springs well could likely be accommodated by most existing wells given the relatively deep screens and local depths to water. However, the analysis assumed a pumping rate of 20 gallons per minute (gpm) while the application requests an annual groundwater extraction amount of 120 AFY. In order to produce 120 AFY, the well would need to pump 74.4 gpm on a continuous basis, making the drawdowns at this pumping rate about 3.7 times greater than the example analysis (i.e., 92 feet at a distance of 1,000 feet). The application estimated that the proposed well would have a pumping capacity up to 150 gpm. This drawdown has a greater potential to adversely impact nearby wells depending on the construction and current condition of the well. However, given the conservative assumptions for aquifer parameters and the likely barrier effects of local faulting, the applicant's analysis may be over-estimating impacts.

Collectively, local faults, thin alluvial deposits, and shallow bedrock near the proposed Barrel Springs well could negatively affect the productivity of the local aquifer and the proposed well. Determination of the estimated capacity of the applicant's new well is not within the scope of a Material Injury analysis and approval of this New Production application does not guarantee that a well drilled in this area will produce the needed 120 AFY.

Because Barrel Springs Properties will be required to pay a Replacement Water Assessment for production, there is no Material Injury associated with groundwater storage and sustainable yield. The new production is not within the historical or current areas of inelastic land subsidence and no subsidence issues are expected in this area. The proposed production will occur near the southeast margin of the Basin along the San Andreas Fault Zone which is likely a partial hydraulic barrier to groundwater flow. Due to the remote location of this project and potential hydrogeologic disconnection, the risk for material injury appears to be low, but given the uncertainty of the local complex hydrogeology, future impacts to existing wells cannot be ruled out.

Todd Groundwater has determined that Barrel Springs Properties' application for New Production is complete and is determined to have negligible material injury based on the available data. However, given the local hydrogeological uncertainty, Todd Groundwater recommends that the Watermaster require the applicant to conduct an aquifer test on the new well for an improved understanding of aquifer conditions; all well information, including lithological data, construction information, and test results, should be provided to the Watermaster. In addition to this request, the Applicant must also agree to pay Replacement Water Assessments for all future production and comply with meter installation and testing requirements.

Sincerely,

A handwritten signature in cursive script that reads "Phyllis S. Stanin".

Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer

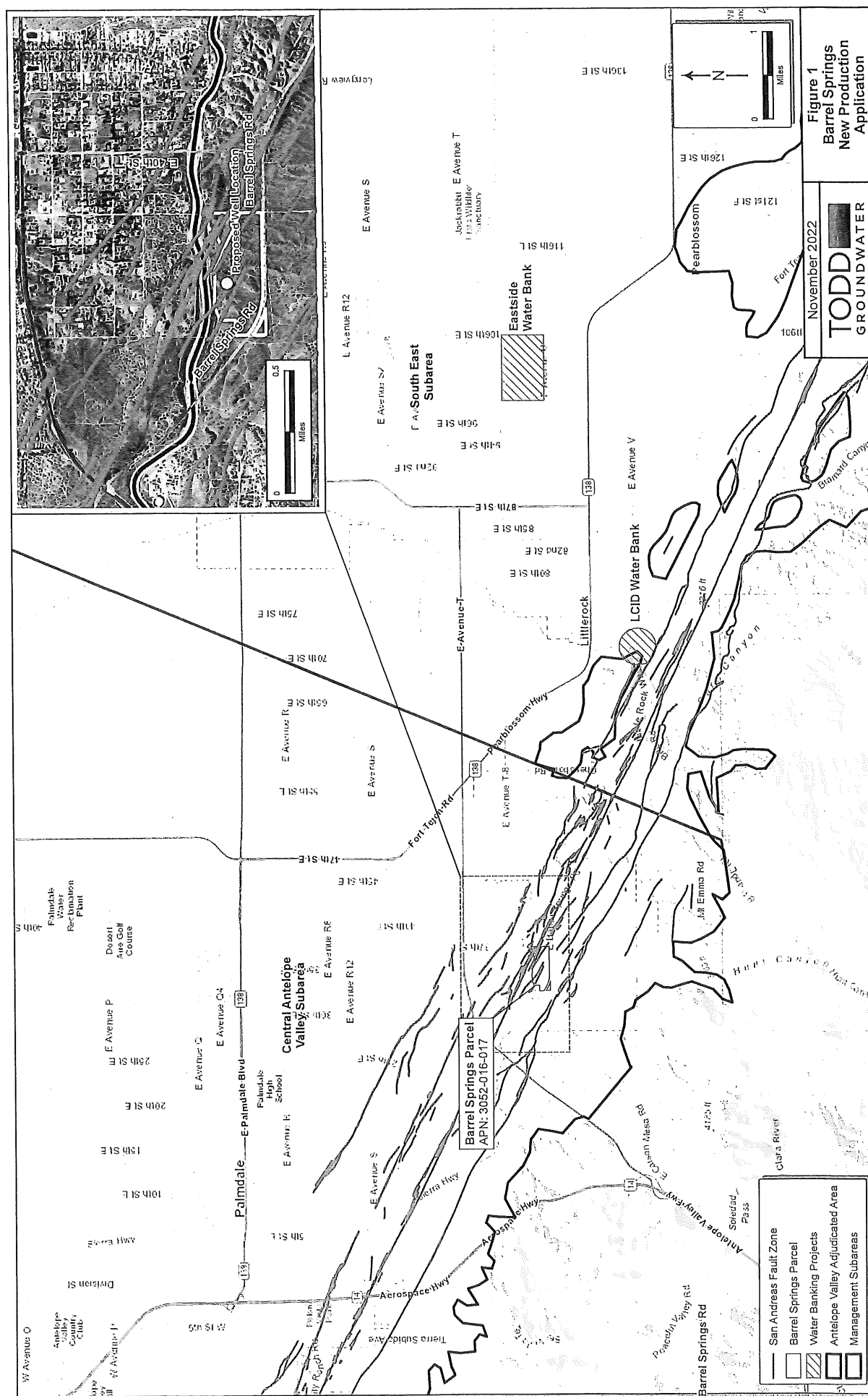
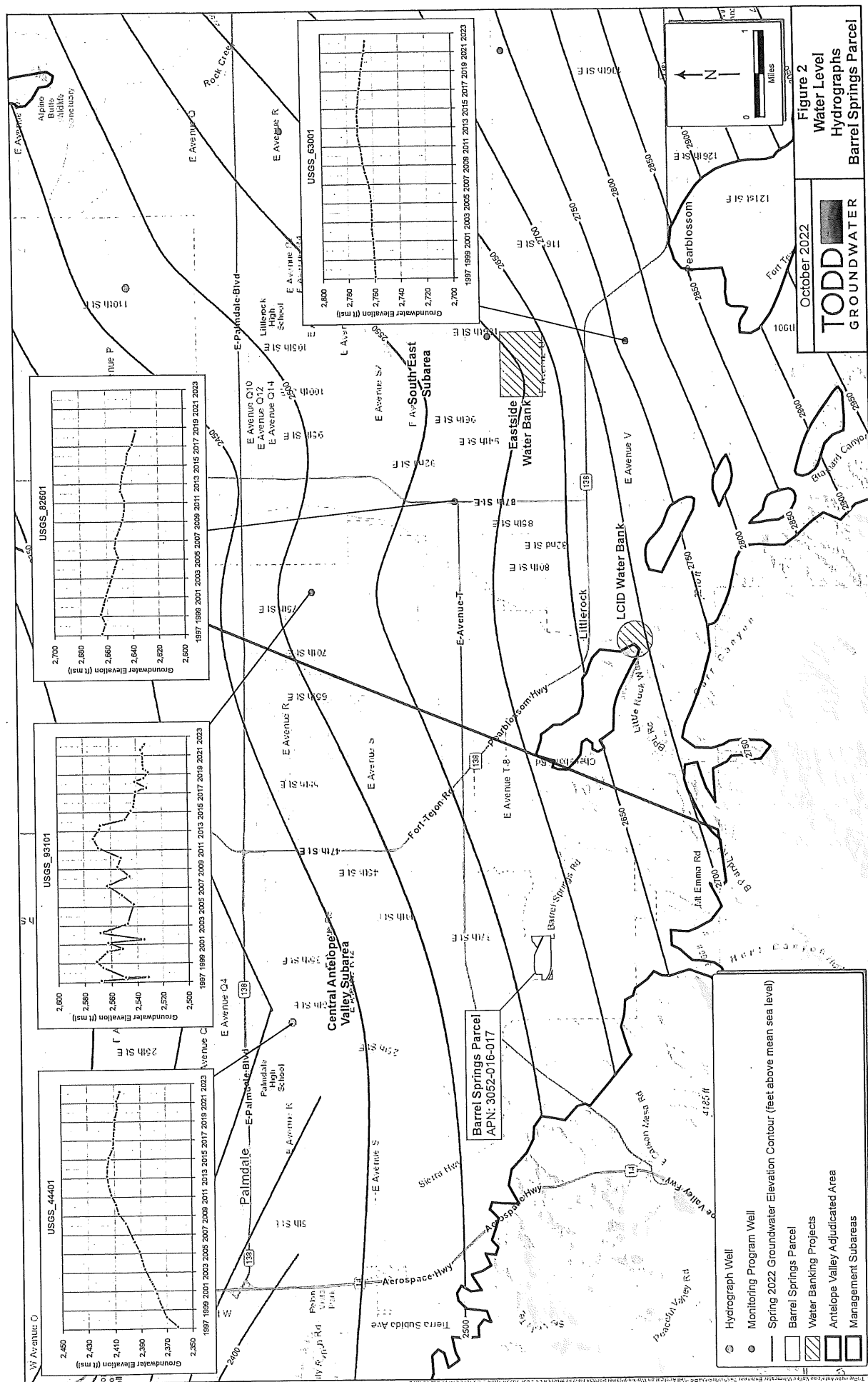


Figure 1
Barrel Springs
New Production
Application

November 2022

TODD  **GROUNDWATER**



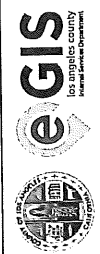


Figure 3. Parcel 3052-016-017 with Barrel Springs Well



X = Proposed
Well Location



This map is for reference only and should not be used for legal decisions.
While the County of Los Angeles makes its best effort to ensure data is accurate, the County makes no representation or warranty of any kind.

NEW PRODUCTION APPLICATION ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:
<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 5022 West Avenue N, Suite 102 #158, Palmdale, CA 93551 OR email to:
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

Date 09-30-22 Proposed Well Site APN 3052-016-017

Property Owner/Well Owner Barrel Springs Properties, LLC

Property Owner/Well Owner Mailing Address 1719 CALIFORNIA AVE #B, SANTA MONICA, CA 90403

Contact Phone Number 661-816-5179 Contact email david@redbricksolution.com

New Well Latitude/Longitude (or x, y) 34.531357,-118.067000 Antelope Valley Subarea: Central Antelope Valley

Use of New Well (Agricultural, Domestic, Industrial, Municipal, Monitoring, etc.) Agricultural

If Domestic well, will well be used to supply one single family household only? Yes/No.

Do other wells exist on this property? Yes/No. If Yes, indicate if active, inactive, or abandoned and show on Site Plan.

When will a meter be installed on the well? Immediately upon installation of the well

New Production requests are to include the following (Section 18.5.13 of the Judgment):

1. Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production. Please attach a check to this application submittal for the fee associated with a New Production application as per the fee schedule posted on the Watermaster website. Check can be made out to Antelope Valley Watermaster.
2. Written summary describing the proposed quantity, sources of supply, season of use, purpose of use, place of use, manner of delivery, and other pertinent information regarding the New Production.
3. Maps¹ identifying the location of the proposed New Production, including Basin Subarea.
4. Well information² including proposed well design, estimated annual pumping, and agreement to install a meter in accordance with the Rules & Regulations. Plus, a statement that once the well is installed, the applicant will provide water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production.
5. Written confirmation that applicant has obtained all necessary entitlements and permits including all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production.
6. Written confirmation that applicant has complied with applicable laws and regulations including all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.).
7. Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices.
8. Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
9. Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
10. A written statement, signed by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, determining that the New Production will not cause Material Injury. Material injury could be in the form of

¹ Maps are to include North arrow and scale, location of proposed well with dimensions in feet from well to nearest cross streets, and location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.

² Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

significant and unreasonable 1. Chronic lowering of groundwater levels, 2. Reduction of groundwater storage, 3. Degraded water quality, 4. Land subsidence, 5. Depletions of interconnected surface water such that beneficial uses are impacted.

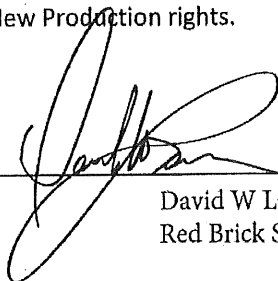
11. Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.
12. Other pertinent information which the Watermaster Engineer may require.

In addition, all New Production applicants who are not Parties to the Judgment³ are to comply with Section 20.9 of the Judgment, consult with the Watermaster Engineer, and seek the Watermaster's stipulation to allow them to intervene to become bound by the Judgment prior to commencing Production. The non-Party applicant must file a motion to intervene with the court that includes reference to their effort to obtain the Watermaster's stipulation to the intervention. It is strongly recommended that the non-Party applicant consult with a lawyer to assist them with compliance with Section 20.9 of the Judgment. If applicant believes they are part of the Non-Pumper Class (see footnote below) and therefore does not need to intervene in the Judgment, please provide supporting documents or statements demonstrating adherence to items 1-6 in the footnote.

SIGNATURES

Under penalty of perjury, I understand and agree to be bound by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. I certify that the information provided on this Request for New Production is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment. I further understand and agree that the purpose, place and quantity of New Production, if any, approved by the Watermaster pursuant to this application shall be the only purpose and place, and the maximum amount, of New Production that I can Produce in any given Year. I certify that I will comply with the restrictions set forth in Section 14.n of the Watermaster Rules and Regulations setting forth limitations on New Production, and that my failure to comply with these restrictions may result in a revocation of my New Production rights.

Signature of Applicant _____



David W Larson, PE
Red Brick Solution, LLC

Date 9-30-22

³ An applicant may already be a Party to the Judgment if they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5.22 of the Judgment, as follows:

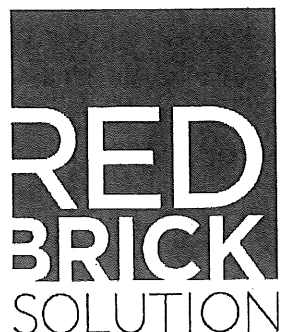
1. They are a private party and not a "governmental" entity.
2. They (or their successor in interest—see no.4 below) own real property within the Adjudicated Area and were not pumping water at the time of the Judgment being entered as of December 2015.
3. They (or their successor in interest—see no. 4 below) did not pump water on their property "at any time during the five Years preceding January 18, 2006."
4. Non-Pumper class status applies to those who are successors in title or interest (via gift or purchase or inheritance or otherwise) to a Non-Pumper Class member's land that meets the above criteria.
5. Note the term "Non-Pumper Class Member" does not apply to those who opted out or to those connected to a municipal water system, public utility, or mutual water company from which they receive water service. Also, their land cannot be considered "improved" by the Assessor's Office of Los Angeles or Kern County, unless the person declares under penalty of perjury that they do not pump and have never pumped water on those properties.
6. Finally, the Non-Pumper Class does not include anyone individually named in the Public Water Suppliers' cross-complaint unless those persons opted into the Non-Pumper Class.

To be completed by the Watermaster:

Watermaster Engineer Approval Phyllis A. Stanin Date 1/11/23

Watermaster Board Approval _____ Date _____

NOTE: This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.



CONSULTING ENGINEERS
& ARCHITECTS

WWW.REDBRICKSOLUTION.COM

MAIN OFFICE:

331 S Rio Grande Street
Suite 203
Salt Lake City, Ut 84101
T 801.224.5335

SOUTHERN CALIFORNIA:

10770 "I" Avenue
Suite 108
Hesperia, CA 92395
M 661.816.5179

September 30, 2022

Antelope Valley Watermaster
5022 West Avenue N, Suite 102 #158
Palmdale, CA 93551

RE: New-Production Well Application, APN 3052-016-017

1. **Payment:**
Will be mailed from The People Concern
2. **Written Summary:**
The new production well has a proposed quantity of 120 AFY. The use will be for agricultural and farmworker housing that will be year-round on the private property. The water will be delivered via an onsite private water system.
3. **Maps:**
See attached map
4. **Well Information:**
See attached well design included with the Water Conservation Practices. We will agree to install a meter in accordance with the Rules & Regulations. Once installed, we will provide all water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production Well.
5. **Written Confirmation that applicant has obtained all necessary entitlements and permits:**
A Boring/Exploratory Hole was approved by the Department of Public Health. We also have Serviceability letters from Palmdale Water District granting permission to seek approval from AV Watermaster for a Production Well. Once approved, we will obtain a well permit from the County and retain a qualified driller with a California License C-57, who will secure any additional permits needed to drill my well, including the completion of a Department of Water Resources Well Completion Report.
6. **Written confirmation that applicant has complied with applicable laws and regulations:**
We have complied with all applicable rules and regulations. Drilling of my well qualified for a Categorical Exemption under CEQA.
7. **Water conservation plan:**
See attached Water Conservation Practices
8. **Analysis of the Economic Impact:**
See attached report by Geosyntec
9. **Analysis of the Physical Impact:**
See attached report by Geosyntec
10. **Written Statement determining New Production Well will not cause material injury:**
See attached report by Geosyntec
11. **Written Confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production:**
We agree to pay the applicable Replacement Water Assessment for our New Production well.

Water Conservation Practices

ANTELOPE VALLEY WATERMASTER

☐ Domestic
 ☒ Agricultural
 ☐ Commercial/Industrial
 ☐ Municipal
 ☐ Monitoring

Date 10-3-22 Proposed Well Site APN 3052-016-017

Property Owner/Well Owner BARREL SPRINGS PROPERTIES LLC

Property Owner/Well Owner Mailing Address 1719 California Ave, #B, Santa Monica, CA 90403

Contact Phone Number 661-816-5179 Contact email david@redbricksolution.com

Estimated annual pumping from New Well 120 acre-feet/year Well capacity Assumed 150 gallons/minute

Describe the proposed use of the New Well (attach back up information as necessary) Water for agricultural use and farmworker housing.

Lot/Parcel Size 58ac (acres)

Proposed Structure(s) (e.g. home, office, barn, etc.) and size (square feet) Storage Garage (1,600sf), Caretakers House (1,200sf), Produce Stand (1,000sf), Dining Hall (4,500sf), Multi-Purpose Center (6,000sf), and 48 Farmworker housing units (980/each totaling 47,040sf) with a total Square footage of 61,344sf.

Number of full bathrooms 145 Number of half bathrooms 8

Is there (or will there be) a pool? No Size of pool N/A (gallons)

Is there (or will there be) a spa/hot tub? No Size of spa/hot tub N/A (gallons)

Area to contain irrigated landscaping 357,192 square-feet

Describe all proposed landscaping (type and how many) Annual Grasses and Flowers

Area to contain irrigated crops or fruit trees 1,576,872 square-feet

Describe all proposed crops and fruit trees (type and how many) Row Crop vegetable gardens and Orchard Area

Please provide details on potential water use not mentioned above (e.g. farm animals, etc.)

Farm animals within the Orchard area (24.4ac)

Water Conservation Checklist

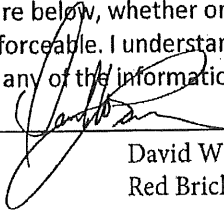
Please indicate which of the following measures will be used:

- ☒ ENERGY STAR® water-conserving appliances installed, e.g., dishwasher, washing machine appl.
- ☐ Water-efficient showerhead using conventional aerator or venturi technology for flow rate < 2.5 gpm fixture
- ☒ Water-efficient sink faucets/aerators < 2.2 gallons/minute
- ☒ Ultra-low flow (< 1.6 gpm/flush) toilets installed
- ☒ Low-volume, non-spray irrigation system installed, e.g., drip irrigation, bubblers, drip emitters, soaker hose, stream-rotator spray heads
- ☐ Weather-based irrigation controllers, e.g., computer-based weather record
- ☐ Collect and use rainwater as permitted by local code
- ☐ Separate and re-use greywater as permitted by local code
- ☐ Composting or waterless toilet as permitted by local code
- ☒ Drought-resistant, native plants (site-appropriate)
- ☐ Xeriscape landscaping
- ☐ Evapotranspiration-based irrigation controller with a rain sensor
- ☐ Soil moisture sensor-based irrigation controller

Please provide additional details here Water conservation specifics have yet to be determined, but we are
designing the project to be Certified LEED Platinum. Attachment A contains the Water Conservation Practices summary for the project.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information provided on this Water Conservation Practices for Single Family Home form is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days.

Signature of Applicant  Date 10-03-22

David W Larson, PE
 Red Brick Solution, LLC

Water Conservation Practices
ANTELOPE VALLEY WATERMASTER

ATTACHMENT A

Proposed Well Site APN: 3052-016-017

Planned water conservation measures at the property of the proposed well site include the installation of low-flow fixtures and fittings in residential kitchens and lavatories across the property and implementation of drought-tolerant plants in the landscaped areas watered with drip irrigation systems, as indicated in the Water Conservation Checklist on Page 2 of the Water Conservation Form.

The plan is to attain LEED Platinum certification for the property. The certification requires (a) reduction of outdoor water use by at least 30 percent from the baseline of the property's peak watering month, calculated using the USEPA WaterSense Water Budget Tool, (b) reduction of indoor water use by at least 20 percent from the baseline, using a combination of fixtures and fittings noted in the Water Conservation Checklist, and (c) installation of permanent building water meters measuring total potable water use, as well as compilation of monthly and annual meter read summaries for at least the first 5 years of the project. Additional credits needed to obtain Platinum-level certification will be met by prioritizing Water Efficiency credits as much as feasible, including those for the optimization of process water use.

The following best management practices for high desert agricultural water conservation will also be evaluated throughout property development to identify and target opportunities for their implementation:

1. Use of smart-sensor irrigation controllers to monitor weather, soil moisture, and/or evapotranspiration.
2. Use of selective irrigation methods across the property, including additional drip irrigation or mobile drip irrigation, low-energy precision application, mid and low elevation spray application, and sprinkler irrigation.
3. Reduction of tillage across crop fields to maintain soil water storage capacity.
4. Planting of cover crops, including cereals, brassicas, legumes, rye, and barley, to increase infiltration into underlying soils.
5. Planned crop rotation management.
6. Improvement of soil structure through incorporation of aggregate and/or organic material (e.g., mulch) to increase stability, porosity, and water storage capacity.
7. Further selection of drought-tolerant and native vegetation for crops and/or cover crops.
8. Rainwater capture and use.
9. Fitting drainage systems with water control structures to manage water table elevation.
10. Management of soil salinity and plant-specific composting practices.



65 N. Raymond Ave, Suite 200
Pasadena, California 91103
PH 626.788.4683
www.geosyntec.com

John Maceri, CEO
jmaceri@thepeopleconcern.org
The People Concern
2116 Arlington Ave. Ste. 100
Los Angeles, CA 90018

September 30, 2022

**Subject: Analysis of Potential Economic and Physical Impacts of the Proposed Well
Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California**

Dear John,

Geosyntec has reviewed geologic, hydrogeologic, and production well information within a few miles of the property for a farm and affordable farmworker housing community that is proposed by The People Concern, which is a California 501(c)(3) Non-profit Organization for Public Benefit. The property is south of Palmdale and just south of the California Aqueduct. It is bounded on the south by Barrel Springs Road, and on the east by 40th Street East. **Figure 1**, below, shows the property boundary on an aerial photograph.

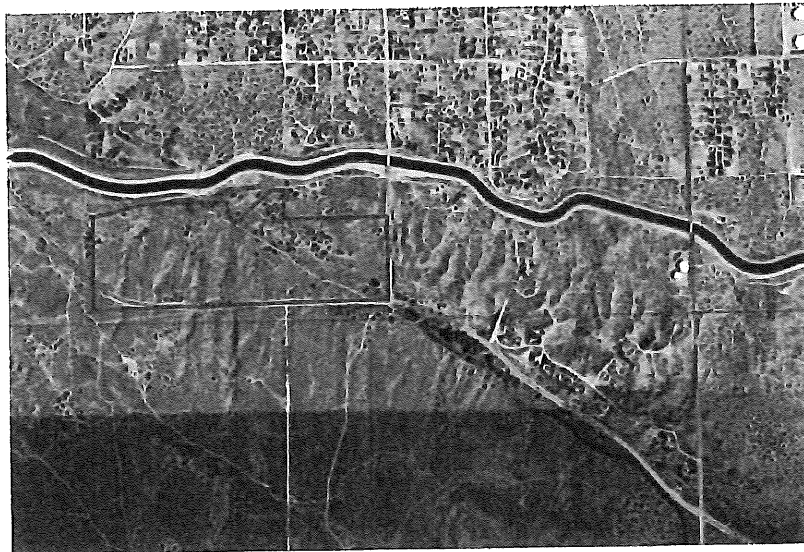


Figure 1. Aerial Photo of Property Vicinity

Based on the information from several sources including geologic maps, Water Well Drillers Reports available from the California Department of Water Resources (DWR) for wells in the vicinity, and reports on the Antelope Valley Basin available from the Antelope Valley Water Master (AVWM) website, we have estimated groundwater production potential from a proposed well on the property. In addition, we have evaluated the potential physical and economic impacts of the proposed groundwater production to the surrounding area.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 2

Geologic and Hydrogeologic Setting

The property straddles the San Andreas Fault: most of it is southwest of the fault, but the northeast corner is northeast of the Fault. **Figure 2** shows the location of the property and the proposed well location on a geologic map¹ of the vicinity, a portion of which is underlain by the same aerial photo shown by **Figure 1**.

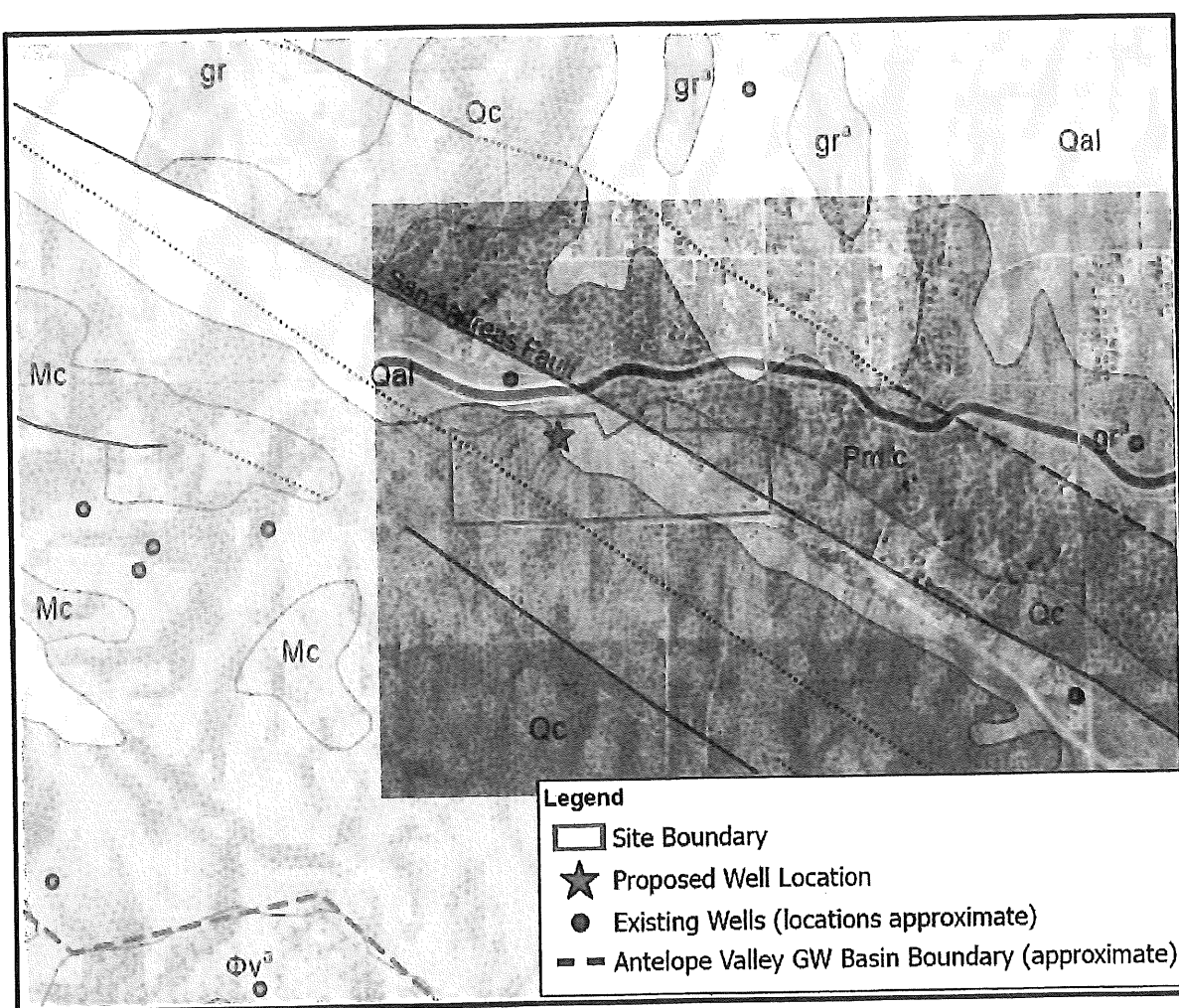


Figure 2. Geologic Map of Project Vicinity

¹ Jennings, C.W., and R.G. Strand, 1969. Geologic Map of California, Los Angeles Sheet. California Division of Mines and Geology. https://ngmdb.usgs.gov/Prodesc/proddesc_16341.htm
<http://archives.csuchico.edu/digital/collection/coll19/id/99>

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 3

The property is within the boundaries of the Antelope Valley Groundwater Basin (e.g. Department of Water Resources Basin 6-044): the southwest margin is the basin is approximately 1 to 2 miles from the proposed well location. However, the property is not within the domain of the Antelope Valley Groundwater Model (USGS 2014): the southern margin of the model is a few miles northwest of the property. Consequently, we were not able to utilize aquifer properties assigned to the model to estimate aquifer properties in the vicinity of the property.

Based on the geologic map (**Figure 2**), the middle portion of property is underlain by deposits of unconsolidated quaternary alluvium and the western and eastern portions are underlain by Quaternary colluvium. Bedrock is exposed at the ground surface in many areas nearby. The area has a complicated geologic structure as a consequence of the proximity to the San Andreas Fault, which is actually a fault zone consisting of a several subsidiary parallel faults and local basins within the fault zone. Consequently, the rocks and alluvial deposits have much less continuity and their properties vary on a much smaller scale than within the main portion of the Antelope Valley Basin north of the fault zone.

Based on boring logs included on Well Drillers Reports for wells in the vicinity of the property, the alluvial deposits are generally a few hundred feet deep, but the clay content generally increases with depth. Some wells are completed in areas mapped as bedrock. The geologic map could be incorrect at some of these locations, but some of these wells may tap transmissive fractures associated with the fault zone.

A few areas with springs occur along Barrel Springs Road, which runs along the base of the slopes of the San Gabriel Mountains south of the property and the fault zone. The springs support local areas with trees and vegetation, which are visible on aerial photos (**Figure 1**). The springs are likely fed by groundwater discharging from the San Gabriel Mountains in drainages and fractures in bedrock. This water also likely accumulates in the local alluvial basins along the San Andreas Fault zone, which is likely a partial hydraulic barrier.

Aquifer Properties Based on Driller's Well Reports

Estimated aquifer transmissivity (T) can be calculated from specific capacity, which is pumping rate (Q) divided by drawdown (S) (lowering) of water level in a well (e.g. Heath, 1989)²:

$$T \sim 300 \times Q/S,$$

where T is in units of ft²/d

Q has units of gpm, and

S has units of ft

² R. C. Heath, 1989, Basic Groundwater-Hydrology, USGS Water-Supply Paper 2220.

John Maceri, CEO
Analysis for Proposed Well
September 30, 2022

Page 4

And average hydraulic conductivity (K) is transmissivity divided by the thickness (b) of the formation tapped by the well:

$$K \text{ (ft/d)} = T \text{ (ft}^2\text{/d)} / b \text{ (ft)}$$

Calculations of estimated transmissivity, hydraulic conductivity, and details from two well reports in the vicinity are provided in the table below. Based on these calculations, the estimated hydraulic conductivity is approximately 0.5 ft/d, which is reasonable for heterogenous alluvium. If we account for head losses in the pumping wells, assuming well efficiencies of 70%, the transmissivity and hydraulic conductivities are higher by a factor of 1/0.7, or 1.43, which results in a hydraulic value of ~0.7 ft/d.

Well Number	Well ID on Geo Map	Pumping Rate (gpm)	Duration (hrs)	Depth to Water Before Test (ft)	Reported Drawdown (ft)	Calculated Transmissivity ¹ (ft ² /d)	Perforated or Screened Interval (ft)	Estimated Thickness of Productive Formation (ft)	Calculated Hydraulic Conductivity (ft/d)
251697	10	40	8	Flowing	250	48	32 to 292	100	0.48
287630	7	7	3	50	100	21	147 to 187	40	0.53

Notes:

1 Estimate of Transmissivity = 300 x Pumping Rate / Drawdown,
T = 300xQ/S, where T has units of ft²/d, Q gpm, and S ft (Heath, 1989)

Calculated Drawdown with Distance from a New Production Well

We used the Jacob approximation of the Theis Aquifer Solution, which are both commonly used aquifer pumping solutions, to calculate theoretical drawdown with distance from the proposed production rate (e.g. Heath, 1989, see footnote above).

In addition, using the aquifer testing analysis software, AQTESOLV³, we calculated the drawdown at a range of distances from the pumping well using the Theis solution with a no-flow boundary along the San Andreas Fault, which may be a partial barrier to groundwater flow that would result in greater drawdown. This results in more drawdown than calculated with the standard Theis Aquifer Solution, which assumes the aquifer is uniform and of infinite extent. We then fitted a curve to the calculated drawdowns a few distances from the pumping well, and plotted the curve on a graph (**Figure 3**, below) of distance versus drawdown both the standard Theis solution (no hydraulic barrier along the fault) and the solution that represents a complete hydraulic barrier along the fault. This graph provides a range of potential drawdown with distance assuming a pumping rate of 20 gpm and an average hydraulic conductivity of 0.5 ft/d an aquifer thickness of 200 ft, which results transmissivity of 100 ft²/d.

³ Duffield, G.M. (2007) AQTESOLV for Windows User's Guide, Version 4.5, HydroSOLVE, Inc., Reston.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 5

Based on our review of the boring logs included with the Drillers Well Reports for wells in the vicinity that are completed in alluvium, and our professional judgement, a hydraulic conductivity in the range of 0.5 to 1 ft/d is reasonable, so the calculations of drawdown with distance using a hydraulic conductivity of 0.5 are considered conservative.

The drawdown would be linearly proportionally greater at a given distance for greater flow rate: e.g. a drawdown in response to a pumping rate of 40 gpm would be twice as much as calculated for 20 gpm.

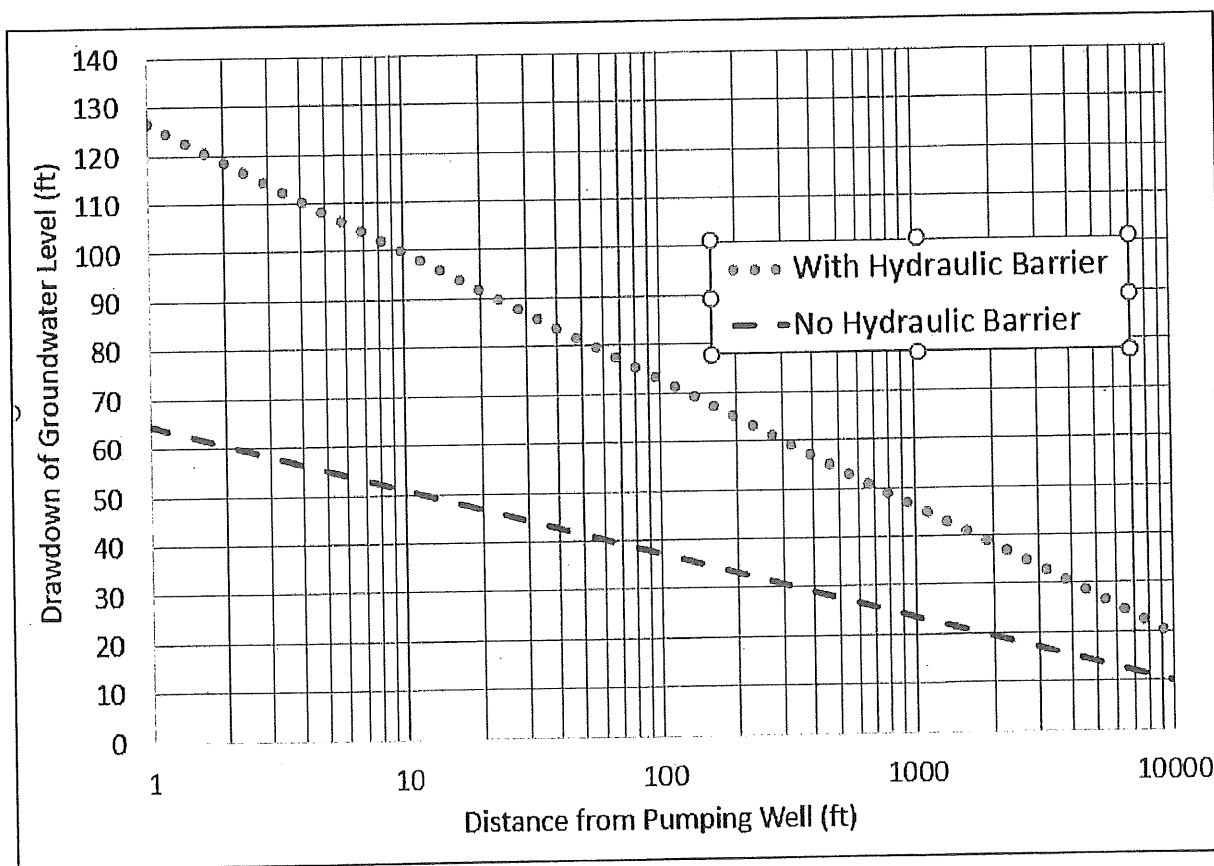


Figure 3. Calculated Drawdown with Distance from Pumping Well
 ($T = 100 \text{ ft}^2/\text{d}$, $b = 200 \text{ ft}$, $Q = 20 \text{ gpm}$)

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022

Page 6

Evaluation of Potential Physical and Economic Impacts of a New Production Well

The primary potential physical impact of groundwater drawdown is subsidence of the ground surface that can occur because of compaction with of the groundwater levels. Based on existing maps of long-term subsidence in the Antelope Basin⁴, the potential for subsidence due to the proposed groundwater production for the project is expected to be negligible (<0.1 ft).

We calculated cost for the additional energy needed for potential additional lift of water in wells due to potential lowering of groundwater due to the proposed new production well. The table and graph below (**Figure 4**) show the cost per month for a range of additional pumping lift values. The assumed electricity cost is \$0.16 per kilowatt hour (kWh), which is the reported cost for the Palmdale area (<https://www.electricitylocal.com/states/california/palmdale/>).

Potential Additional Pumping Costs Due to Lower Groundwater Level

Lift (ft)	ft-lbs/min	kWh/min	kWh/hr	Pump HP*	kWh/mo	\$/mo**
0						0
10	2979	0.001	0.067	0.1	49.1	\$8
30	8936	0.003	0.202	0.3	147.3	\$24
40	11914	0.004	0.269	0.4	196.4	\$31
50	14893	0.006	0.337	0.5	245.5	\$39
100	29786	0.011	0.673	0.9	491.1	\$79

Notes:

Pumping rate = 25 gpm Well efficiency = 70%

*Pump HP assumes 1 kWh is equivalent to the energy of a 1.34 HP pump over 1 h

** 16 cents per KWh in Palmdale

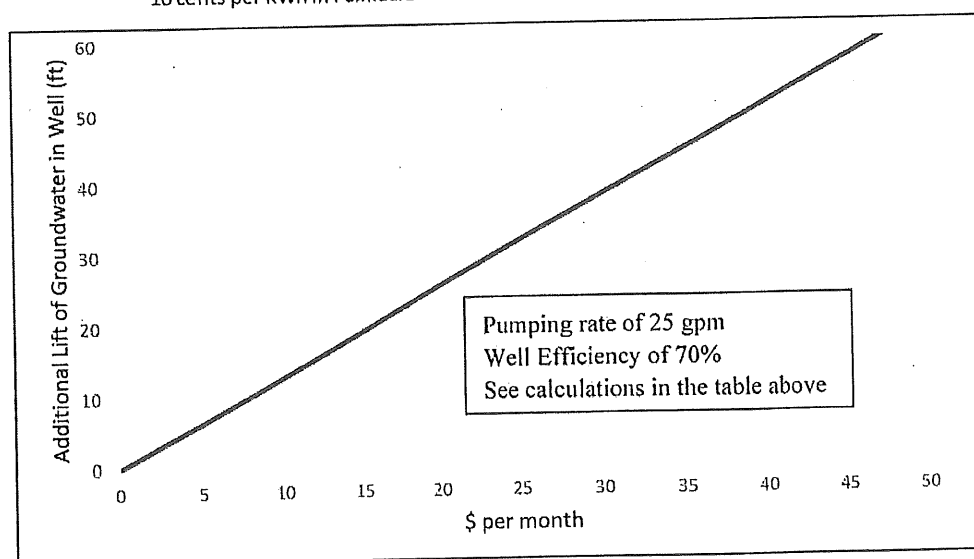


Figure 4. Energy Cost Associated with Lower Water Level in a Well

⁴ Todd Groundwater, 2022, Antelope Valley Watermaster 2021 Annual Report.

John Maceri, CEO
 Analysis for Proposed Well
 September 30, 2022


Page 7

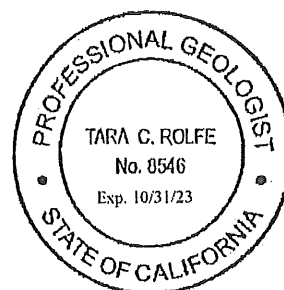
Based on the distances of other well from the proposed new well, and the calculations of hypothetical drawdown in response to pumping the new well at 20 gpm a conservatively high estimated potential additional cost to operate the closest wells is in the range of \$20 to \$30 per month. And, as discussed above, the drawdown calculations are based on a conservatively low value of hydraulic conductivity. A factor of two less drawdown is likely more realistic.

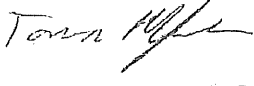
We appreciate the opportunity to provide you with groundwater supply consulting services and collaborate with you on this important project.

Sincerely,




 Gordon Thrupp, PhD, PG, CHG
 Senior Consultant




 Tara Rolfe, PG, CHG
 Senior Hydrogeologist

cc Christie Larson Christie@redbricksolution.com
 Dave Larson, PE david@redbricksolutions.com



65 N. Raymond Ave, Suite 200
 Pasadena, California 91103
 PH 626.788.4683
www.geosyntec.com

Item 10 for New Production Application
Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California

Geosyntec has reviewed geologic, hydrogeologic, and production well information within a few miles of the property for a farm and affordable farmworker housing community that is proposed by The People Concern, which is a California 501(c)(3) Non-profit Organization for Public Benefit. We have prepared a letter report that evaluates the groundwater production potential in the vicinity of the property and the potential economic and physical impact (*The Letter Report is also included as an Attachment to the Application Packet for Items 8 and 9 of the New Production Application*) of groundwater pumping to meet the water supply needs for the farm and housing community.

Geosyntec made calculations of the lowering of groundwater (drawdown) in response to pumping from the proposed well that are presented in the letter report. Based on the compilations of aquifer properties estimated from well reports for existing wells in the vicinity and geologic maps, and assuming a conservatively low transmissivity of 100 ft²/d¹ for was assumed for the alluvial aquifer beneath the property for screening level calculations of the potential influence of the production. With this and other conservative assumptions, the calculated lowering of groundwater at known existing wells would be a small portion of the depth to groundwater in the wells when they are pumping, which is commonly 100 ft or more based on information from Drillers Well Reports in the general vicinity available from the Department of Water Resources (DWR).

The calculations presented in our Letter Report, which is provided in the application packet to address Items 8 and 9, are intended to be serve as a basis for conservative screening-level evaluation of groundwater production potential and the resulting potential lowering of groundwater levels in the vicinity. The alluvial aquifer beneath the property may be a factor of four or more transmissive than assumed (i.e., hydraulic conductivity of 2 ft/d instead of 0.5 ft/d), which would result in less drawdown than calculated for the calculations presented using continuous pumping at 20 gpm. And, for example, if the aquifer is four times as transmissive as assumed, the same drawdown would be calculated with a factor of four higher pumping rate (80 instead of 20 gpm). Moreover, our calculations are also conservative because the analytical aquifer solution assumes no recharge to the alluvial aquifer and only horizontal radial inflow within an aquifer of infinite extent.

Based on our analysis groundwater production is feasible at the property and we make the following conclusions:

1. Chronic lowering of groundwater levels in the general vicinity is not expected to occur because groundwater discharge from the San Gabriel Mountains generally along the

¹ For example, average hydraulic conductivity of 0.5 ft/d and aquifer thickness of 200 ft.

Item 10 to Accompany the Production Permit
 Proposed Farm and Affordable Farmworker Housing, Antelope Valley, California
 October 1, 2022

alignment of Barrel Springs Road provides recharge to the alluvial aquifer in the vicinity of the property, so the groundwater production can be sustainable.

2. Reduction of groundwater storage is anticipated to be minor for the same reasons that chronic lowering of groundwater levels is not expected to occur.
3. The groundwater production will not degrade water quality, and the well will be constructed with a proper surface seal in accordance with California Well Standards.
4. Based on subsidence data for the Antelope Groundwater Basin, modeling of subsidence in the basin by USGS, and the poorly graded make-up of the alluvial aquifer, subsidence due the proposed production is expected to be negligible (<0.1 ft).
5. The conservatively high calculations of drawdown at the distance of the nearest surface water (Bear Creek) south of Barrel Springs Road is too small to result in significant depletion of water in the creek. Moreover, like the springs, this creek too is hydraulically upgradient of the property, and is fed by groundwater discharge from the slopes and bedrock of the San Gabriel Mountains to the south to surface drainages and on-lapping alluvial aquifers. Additionally, portions of Bear Creek appear to be lined, and it is called the Palmdale Ditch. Thus, no impacts to beneficial uses of the land and water resources are expected to occur due to the proposed groundwater production.

The proposed new production of a maximum of 120 acre feet per year (AFY) will have negligible, if any, influence on the Native Safe Yield of the Antelope Valley Groundwater Basin, which is 82,300 AFY. Moreover, the proposed pumping is near the southwest margin of the Basin and is separated from the main portion of the Basin by the San Andreas Fault Zone, which is likely a partial hydraulic barrier. The Barrel Springs Properties are included in the Basin's Small Pumps Class (SPC) but do not have an existing pumping allocation for the parcel planned for a new well.

The People Concern are committed sustainable use of water and other natural resources, and understand that pumping groundwater will be subject to a replenishment fee. If the groundwater production potential is less than the water demand, they will revise the project accordingly.

Sincerely,



A handwritten signature of Gordon Thrupp in black ink.

Gordon Thrupp, PhD, PG, CHG
 Senior Consultant

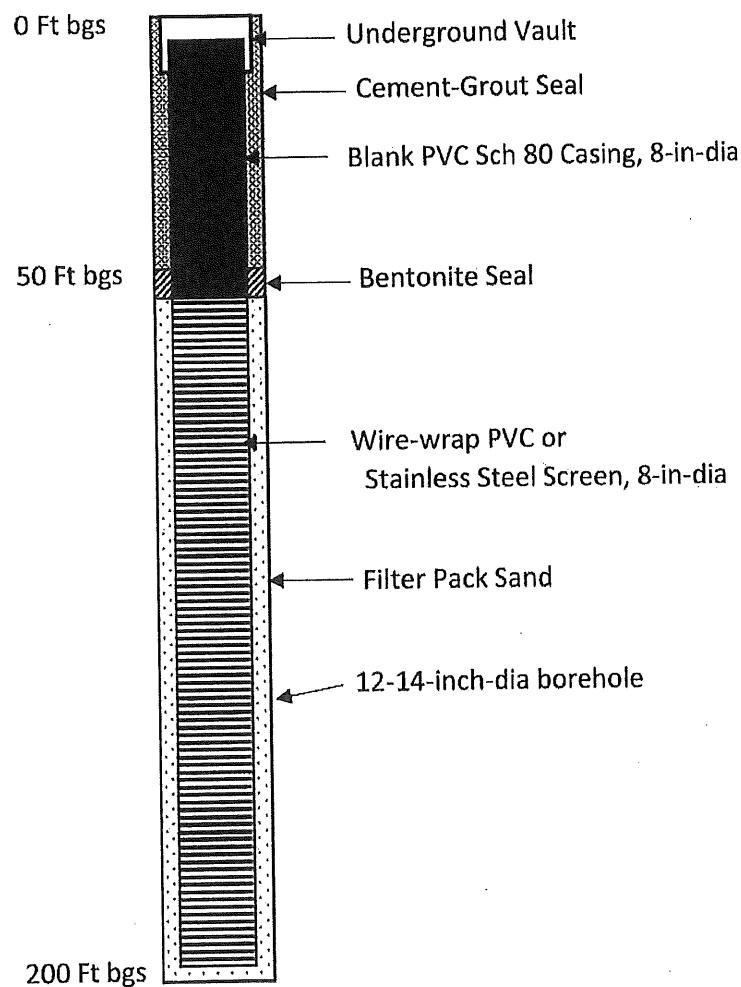


A handwritten signature of Mark Hana in black ink.

Mark Hana, PhD, PEG, CHG
 Senior Principal Engineer

Attachment 1

Preliminary Proposed Well Construction



Actual depth, screened interval, slot size, filter pack sand will be based on material encountered during drilling. Anticipated maximum depth is 300 ft.

Estimated pumping capacity is 25 to 150 gpm. A suitable dedicated submersible pump will be in selected following development and testing.



SALTIES:

- | | | | | |
|----------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------|
| 1. Name of the person | 2. Address | 3. City | 4. State | 5. Zip |
| 6. Date of birth | 7. Sex | 8. Race | 9. Religion | 10. Education |
| 11. Occupation | 12. Income | 13. Assets | 14. Liabilities | 15. Net worth |
| 16. Social Security Number | 17. Driver's License Number | 18. Vehicle Identification Number | 19. Insurance Policy Number | 20. Other Identifying Information |

11

1.  - provide the following information to the court:
2.  - determine the appropriate level of supervision for the offender.
3.  - determine the appropriate level of supervision for the offender.
4.  - determine the appropriate level of supervision for the offender.
5.  - determine the appropriate level of supervision for the offender.

PROJECT NARRATIVE

SURVEYOR'S NOTES.
The following notes were taken on the 1st day of August, 1880, by the
Surveyor of the Land Office, at the mouth of the River, in the
County of St. Louis, Missouri, and are published for the information
of the public.

— 100 —

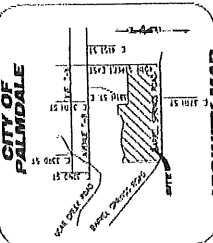
LEGAL DESCRIPTION

FROM 1973 UNTIL

2007 RELEASE

SECRET

- [illegible]



SCALE 1' = 150'

SITE PLAN REVIEW -



三

MEMORANDUM



ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm



COUNTY OF LOS ANGELES
Public Health

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
3052-016-017/Barrel Springs Road	Palmdale	93550	david@redbricksolution.com josh@vicswelldrillinginc.com

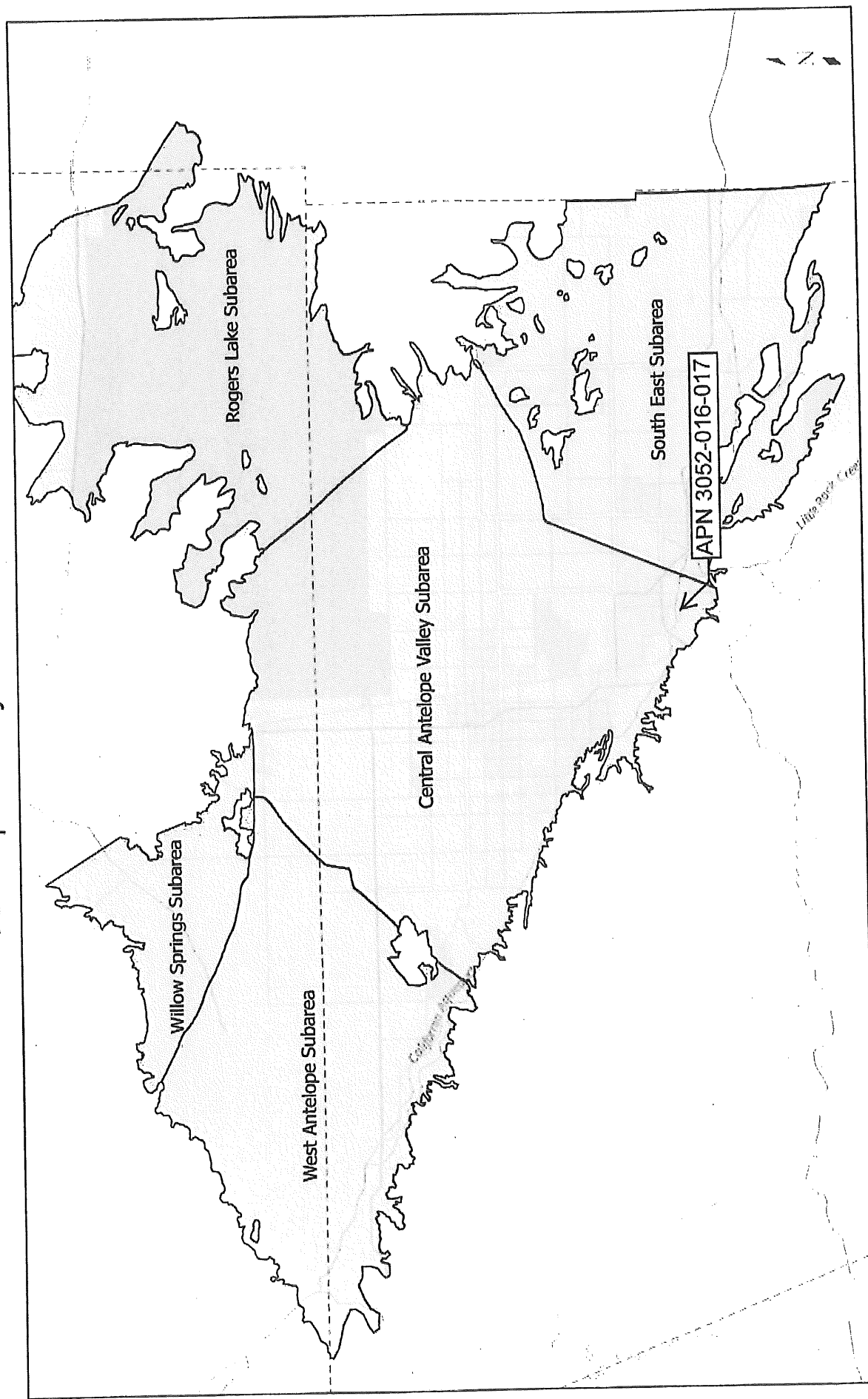
NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:


X	WORK PLAN APPROVED FOR: Soil Boring/Exp. Hole	PERMIT NUMBER:	SR0303673	DATE:	August 15, 2022
<p>ADDITIONAL APPROVAL CONDITIONS:</p> <ul style="list-style-type: none"> • Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review. • As discussed, please ensure the boring/exploration hole is backfilled within 24 hours of boring construction. • Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole to surface. • Ensure soil borings are sealed per California Well Standards 74-90 <ul style="list-style-type: none"> ◦ Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement. ◦ Up to 6% of Bentonite may be added to the cement-based mix. ◦ No hydrated Bentonite chips and/or soil cuttings. • Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11. <p>Please be advised this permit is for an exploratory boring only. A new application with fee to be submitted for a Production Well-Public Water Well.</p>					
<p>APPROVED BY:</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>Ten Hachey, REHS 26415 Carl Boyer Dr. Santa Clarita, Ca 91350 (661) 287-7017</p> </div> <div style="text-align: center;"> </div> <div style="text-align: right;"> <p>5770</p> </div> </div>					

Antelope Valley Watermaster



Legend

AV Adjudication Area

 AV Management Subareas



PALMDALE WATER DISTRICT

A CENTURY OF SERVICE

December 12, 2022

BOARD OF DIRECTORS

W. SCOTT KELLERMAN
Division 1

DON WILSON
Division 2

GLORIA DIZMANG
Division 3

KATHY MAC LAREN-GOMEZ
Division 4

VINCENT DINO
Division 5

Carol Sevilla
Barrel Springs Properties, LLC.
1719 California Avenue
Santa Monica, CA 90403

**RE: SERVICEABILITY - PROPERTY APN 3052-016-017
W.S.M. 34-63;66 (Re-issued)**

Dear Antelope Valley Watermaster:

DENNIS D. LaMOREAUX
General Manager

ALESHIRE & WYNDER LLP
Attorneys

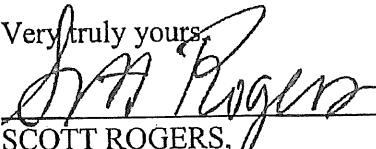
This letter replaces the serviceability letter dated August 11, 2022, after additional information was provided on the parcel. The above-mentioned parcel is located within the service boundaries of the Palmdale Water District (District) and the District's Palmdale Ditch transverses the parcel and lies at the lowest elevation of the parcel. The District will require the Palmdale Ditch to be enclosed so that the ditch is not negatively impacted by water runoff from the parcel.



There is infrastructure located within proximity of the above-mentioned parcel; however, the parcel lies at a higher elevation than can be served by the District's existing system. Improvements to the District's system would be necessary to serve the parcel. Therefore, the owner may elect to either construct the necessary water system improvements so the District can serve the parcel or seek approval through the Antelope Valley Watermaster for the construction of a private well to serve this parcel. This letter shall be valid for one year from the date the letter was issued.

Please feel free to contact me at (661) 456-1020 if you have any questions.

Very truly yours,


SCOTT ROGERS,
Engineering Manager
SR/jv

I. INTRODUCTION

A. LOCATION OF PROPERTY

The 125-acre Project is a Farming and Farmworker Housing Development Community that is located northeast of the intersection of Barrel Springs Road and 40th Street East, just south of the City of Palmdale, CA consisting of APN's 3052-16-017 & 010, and 3052-026-050. An additional 40-acres (APN 3052-026-051) is located just east of the site will be developed as a solar farm to support the site to the west.

B. PURPOSE AND SCOPE

The purpose of this analysis is to anticipate the actual water demand upon the existing aquifer considering most of the water pumped will be infiltrated back into the aquifer on-site.

C. PROJECT DESCRIPTION

The Project Development Plan is designed as a "Self-Sustainable Living Community". The Project has been designed to create a micro-living-environment that caters to almost all the needs of its future farmworker community without placing additional burdens on the neighboring resources as it embraces a minimal-carbon footprint lifestyle that can be described in the following terms:

1. Farming Irrigation and Operations
2. 144 custom designed "farmworker-optimized" affordable dwelling Units and associated structures for services as follows
 - A Caretaker residence.
 - A Multi-Purpose Center
 - A Dining Hall with serving kitchen.
 - A Produce Stand-Market
 - An Equipment Storage Barn
 - A Detention Basin/Park

The Project will be used as agricultural land including grazing, crops, orchards, and small animal husbandry. The County has advised the Project is Statutorily exempt from the California Environmental Quality Act ("CEQA") because the Project will be reviewed via Ministerial Site Plan Review and Administrative Housing Permit.

As there are no existing sewer, water, or natural gas services currently serving the subject property and the Project will generate and provide its own utilities from entirely within the Project's property boundaries, except for LA County Sheriff and Fire services. As such the Project will meet 2040 water and sewer allowances by providing its own reclaimed system that recharges associated underlying aquifer.

D. WATER AND SEWER SERVING THE PROJECT

The Project Site is currently vacant and is consistent with the County General Plan and Zoning with a RL2-Rural Land Use Designation and an A-1-2 Light Agricultural Zone respectively for the farmworker housing and community center and includes a request for the accessory uses listed above.

II. ESTIMATED WATER CONSUMPTION GENERATED BY THE PROJECT

A. DOMESTIC DEMAND:

Per California Assembly Bill 1668 dated May 31, 2018, the per capita limit for water is 55 gpd. Figuring that the Project will house 144 Farm Workers translates to (144×55) 7,920 gallons per unit per day. In addition, the peripheral support facilities will in general reduce personal uses, so their demand is limited to foodservices. Considering that In the U.S., we use only 10% of our overall water consumption for drinking and cooking (Columbia Climate School "From Wastewater to Drinking Water" by Renee Cho April 4, 2011), the rest is flushed down the toilet or drain. Thus, we expect this additional consumption to be 10% of the daily demand.

For the purposes of this Study, the Project will have a farmworker component demand of $(7,920 \times 1.1 =)$ 8,712 gpd which is 9.8 afy (acre feet per year).

B. FIRE FLOW PROTECTION SYSTEM DEMAND:

To ensure the Fire Protection System and infrastructure will meet the requirement set forth by the Apple Valley Fire Protection District. The infrastructure will need to include the following:

- All permanent structures will have internal sprinkler systems per California sprinkler system codes
- Hydrants will be located per the requirements of the LA county Fire Protection district.
- Supply piping will be sized to adequately handle the water flow requirements (volume and pressure) to every hydrant.

The fire flow rate requirement established by LA County Fire Protection district from similar Projects is 2,250 gpm. for a two (2) hour duration. This combination of flow rate and duration consumes a water volume of 270,000 gallons.

C. EVAPOTRANSPIRATION DEMAND:

Evapotranspiration is the process by which water is transferred from the land to the atmosphere by evaporation from the soil and other surfaces and by transpiration from plants.

The Project is in the area known as the California High Desert Valleys and is classified by the California Irrigation Management Information System (CIMIS) as ETo Zone 17 which has the second highest evapotranspiration rates in the State. Monthly average rates range from 1.86 to 9.92 inches/month for a yearly rate of 66.5 inches.

Landscape water demands:

Given the following:

Each DU will be xeriscape with no with consumption =	0 square-feet
40.1-acreas of usable farmland =	1,803,384 sf
Maximum Applied Water Allowance Plant Factor =	0.20
Eto =	66.5 in/yr
Irrigation Efficiency =	0.81

Then the Estimated Water Used (Gallons per Year) is:

$$(Eto/12) \times (PLANT FACTOR) \times (HYDROZONE SQ. FT.) \times (.62)/ IRRIGATION EFFICIENCY =$$

$$(66.5/12) \times 0.20 \times 1,803,384 \times 0.62/0.81 = 1,529,908 \text{ cfy} = 35.12 \text{ afy}$$

Considering that on average the Project irrigation demand is 2.7-afy per acre or $(40.1 \times 3 =)$ 108 acre-feet per year or 31,355 gallons per day.

D. MITIGATION MEASURES TO CONSIDER:

The Project's water demand requirements can be reduced by the following innovative design features:

1. Xeriscape (waterwise landscaping): the process of landscaping, or gardening, that reduces or eliminates the need for irrigation. It is promoted in regions that do not have accessible, plentiful, or reliable supplies of fresh water. Xeriscapes can reduce water consumption by 60% or more compared to regular lawn landscapes.
2. Infusing Aquifer Through Hydromodification/Infiltration: The LA County Low Impact Development Watershed Water Quality Management Plan, has become standard practice for all development which requires infiltration of 2-year (85th percental) storm flows.
3. Water Efficient Toilets and Faucets. a
4. Reclaimed Water from the proposed Packaged Wastewater Treatment Plant: Use of recycled water in lieu of potable water is encouraged by the State Water Board as described below:
 - a. The State Water Board's Strategic Plan Update 2008-2012 includes a priority to increase sustainable local water supplies available for meeting existing and future beneficial uses by 1,725,000 acre-feet per year (afy) in excess of 2002 levels by 2015.
 - b. The State Water Board's Policy for Water Quality Control for Recycled Water states the following goals (in part): 1) Increase the use of recycled water over the 2002 level by at least 1 million afy by 2020 and by at least 2 million afy by 2030. 2) Increase the amount of water conserved in urban and industrial uses by 20 percent compared to 2007. 3) Substitute as much recycled water for potable water as possible by 2030

E. FINDINGS AND CONCLUSIONS

Estimated Well Flow Rate: Per the Antelope Valley water Master Groundwater Elevations Map, the groundwater elevation below this Project is 2575. Considering the proposed well site is at an elevation of 2970 then the ground water would be 415 feet down from natural grade. Information obtained by local well driller suggests that substantial water is around 400-feet and can produce 25 to 125 gpm depending on well and pump size.

Historic water reports by Everett L. Clark, Consulting Civil Engineer Dated May 5, 1952 and Tracy Bousman, Consulting Civil Engineer Dated June 3, 1969 show that a well capable of producing 100 gpm is probable below 300-feet.

To meet the demand of $(31,355 + 8,712) = 40,067$ gpd a pump would be required to run at $(40067/24/60)$ 27.82 gpm constantly which falls in lower the range listed above.

Affects of the San Andreus Fault and the Aqueduct: The historic water reports by Everett L. Clark, Consulting Civil Engineer Dated May 5, 1952 and Tracy Bousman, Consulting Civil Engineer Dated June 3, 1969 states that the "fault acts as partial barriers to northward movement of groundwater" that leads to the existence of high ground water that support localized grasslands. Their reports also claim that "Water levels and geology indicate that several hundred feet of material below the ranch may be saturated and provide a considerable storage volume for long term use." Drilling logs show the upper 26-feet is silty sand comprising of 65% sand and 35% silt before hitting clay lenses at 26, 28, 31, and 36-feet that support the perched higher ground water in this area. Drilling depths at 400-feet and below would support water draw down in a lower aquifer that most likely would have little affect on the upper aquifer.

Tank Storage Capacity: To meet the required 3-day domestic use storage capacity $(8,712 \times 3 = 26,136)$ gallons) plus the fire flow requirements (270,000 gal), a 300,000-gal water tank is required that could be achieved by using 2 tanks 40ft in dia., and 16 ft in height to achieve a total storage volume of 300,656 gallons.

Water Demand Net Effect: As an IRS 501(c)(12) public benefit corporation managing its own water supply and acting as a water company, the net effect this Project will have on the existing water supply can be attributed by the overall losses in the system. Considering that In the U.S., we use only 10% of our overall water consumption for drinking and cooking (Columbia Climate School "From Wastewater to Drinking Water" by Renee Cho April 4, 2011), the rest is flush down the toilet or drain.

This Project will then take the remaining 90% or $(8,712 \text{ gpd} \times 0.9)$ 7,840 gpd and put back into the underground aquifer by means of infiltration through septic leach field distribution. Thus, the net water loses in the system will be the consumption for drinking and cooking along with the evaporation and evapotranspiration loses after infiltrating the excess water back into the aquifer.

The net water consumption would then be as follows:

Drinking and cooking (8,712-7,840 gpd=)	0.98 afy
<u>Farming Evapotranspiration =</u>	<u>35.12afy</u>
Total drawdown on the Aquifer=	36.1 afy

Conclusions: Although the Project when fully built out will pump (108+9.8=)118 afy of water from the underlying aquifer, our true drawdown demand on the aquifer has been shown to be 36.1 afy considering the remaining 81.9 afy will be infiltrated back into the underlying aquifer.

In addition, the Project will be phased during construction of housing and related farming activities which will require less water at its inception. Considering a 5-year buildout, our expectations are we will only need a portion of the water the first year and as the in-situ soils become organic over time, our irrigation demands should drop as-well.

Thus, the following is our expectations of water consumption:

	Purchased Water Demand	Drawdown on Aquifer
• Year-1	40-50 afy	< 15 afy
• Year-2	60-70 afy	< 21 afy
• Year-3	80-95 afy	< 29 afy
• Year-4	95-110 afy	< 33 afy
• Year-5	100-120 afy	< 36.1 afy
• Future goal	90 -100 afy	< 30 afy

As a sustainable community, it is our goal to conserve resources as technology advances. In addition, it is our hope to close escrow on the property with the knowledge that these water resources can be available to us.

Unfortunately, the 2nd postponement of the Watermasters Board meeting has put the Project in jeopardy since significant non-refundable deposits were previously negotiated based on a December 6th Watermasters Board meeting decision. A determination of what water demands the Project has access to is paramount in the decision to close escrow. Considering that a non-refundable \$50,000-dollar deposit is required on December 7th and another \$100,000-dollars on January 26th, it is crucial to know as soon as possible that our requested water demands are reasonable and what limitations may be imposed in the future as soon as possible.

Considering that the actual Project drawdown on the aquifer is 36.1 afy, the effect on the 110,000 afy "Annual Safe Yield" established by the Court is only a miniscule fraction being 0.0328% of the total Annual Safe Yield, and thus, our demand on the aquifer will have essentially no impact on neighboring properties.

Given the foregoing, we respectfully request that our application for water rights to drawdown 36.1 afy (purchase 120-afy) be reinstated to the December Watermaster Board Agenda as time is of the essence relative to our land acquisition."

Cordially,
Red Brick Solution, LLC

David W Larson, PE
Principal

Resolution No. R-23-33

Replacement Well – Bolthouse Properties, LLC

RESOLUTION NO. R-23-33

APPROVING APPLICATIONS FOR REPLACEMENT WELL FOR EXISTING PRODUCTION RIGHTS PURSUANT TO THE TERMS OF THE JUDGMENT; ATTACHED EXHIBIT A

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment (“Judgment”), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for small pumper qualification, applications for replacement well production for existing production rights, or applications for non-production wells is set forth in the Judgment and in the Rules and Regulations contained in the Memorandum from Todd Groundwater to the Watermaster Board dated March 2, 2018 and unanimously adopted by the Board pursuant to Resolution No. R-18-05; and

WHEREAS, the Watermaster Staff may recommend to the Watermaster Board that applications for replacement well production for existing production rights be denied or approved; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Board must deny or approve these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Staff has reviewed all the application listed on attached Exhibit A and has made the appropriate determinations for replacement well production as required under the Judgment and the Rules and Regulations; and

WHEREAS, the Watermaster Board has considered and adopts the determinations and recommendations of the Watermaster Staff and is prepared to approve the application listed on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the application for replacement well production of the Party or Person whose names and information are listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-33 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held on April 26, 2023, in Palmdale, California.

Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

Resolution No. R-23-33
APPROVING APPLICATIONS FOR REPLACEMENT WELL FOR EXISTING
PRODUCTION RIGHTS PURSUANT TO THE TERMS OF THE JUDGMENT;

Exhibit A

APN#	Request Type	Use of Well	Subarea	Applicant/Property Owner
3376-022-017	Replacement Well	Agricultural	Central Antelope	Bolthouse Properties, LLC


BOARD OF DIRECTORS

Robert Parris – Chair
 AVEK Representative
Kathy Maclaren – Vice Chair
 Public Water Suppliers Representative
Russ Bryden
 LACWW Representative
Brandon Calandri
 Landowner Representative
Derek Yurosek
 Landowner Representative

April 14, 2022

Robert Parris, Chair
 Antelope Valley Watermaster Board

Re: Replacement Well Application
 Bolthouse Properties, LLC
 APN 3376-022-017 (Central Antelope Subarea)

Watermaster Board:

The Watermaster Administrative Staff has reviewed the application mentioned above for a Replacement Well in the Central Antelope Subarea. The replacement well will be used for agricultural water supply and will be constructed less than 300' from the existing well it will replace.

Once available, the applicant must provide to the AV Watermaster evidence of the following:

- Proper decommissioning of the abandoned well
- Documentation of meter installation on the replacement well

Sincerely,

Joshua Montoya
 Administrative Staff

REPLACEMENT WELL APPLICATION

(FOR EXISTING PRODUCTION RIGHTS)

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:
<https://avwatermaster.net>. Make check out to Antelope Valley Watermaster

Please mail to Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

This form is for applicants with known production rights to request a replacement well within 300 feet of an existing well owned and operated by the applicant. If the proposed well is greater than 300 feet from an existing well, please use the New Point of Extraction Application instead of this form. If new production rights are being requested, please use the New Production Application instead of this form.

Date 1/3/2023 Well Site APN 3376-022-017
 Property Owner/Well Owner BOLTHOUSE PROPERTIES, LLC.
 Property Owner/Well Owner Mailing Address 11601 BOLTHOUSE DR #200, BAKERSFIELD, CA 93311
 Property Address, if different than Owner's Address 34.67861, -117.93647
 Contact Phone Number 661-330-2617 Contact email DAN.WILKE@BOLTHOUSE.COM
 Owner's name as Appears in Antelope Valley Adjudication Judgment BOLTHOUSE PROPERTIES, LLC
 Production Rights as listed in Antelope Valley Adjudication Judgment 9,945.00 acre-feet/year

Driller Information

Drilling Company SOUTH VALLEY COMPANIES, INC. DBA SOUTH VALLEY PUMP AND DRILLING
 Drilling Company Address 19325 FLIGHTPATH WAY, BAKERSFIELD, CA 93308
 Drilling Company Phone Number 661-831-5703 Drilling Company email TRAVIS@SVCOS.COM

Existing Well Information

Will the New Well replace an Existing Well? YES Existing Well Latitude/Longitude (or x, y) 34.678601, -117.936648
 Will the New Well be used in order to stop sharing a well? NO **Please provide a copy of the shared well agreement.** If
 so, please provide estimations of annual Production of the Shared Well by year for the 1946 through 2015 time period to
 the best of your knowledge _____

Estimated future annual production of the Existing Well once the New Well has been constructed NONE
 Will the Existing Well be destroyed? YES If not, why not? _____
 Existing Well pumping capacity 0 gpm Average annual production from Existing Well 0 acre-feet/year
 Use(s) of the Existing Well (agricultural, domestic, industrial, municipal, monitoring, etc.) AGRICULTURAL
 Status (active, inactive) INACTIVE
 Existing Well construction date UNKOWN Casing Materials STEEL Casing Diameter 16 inches
 Surface seal material and depth 10-SACK CEMENT Screen depths (top/bottom) 250-500 feet
 Well Depth 500 feet Ground surface elevation 2,486 feet above mean sea level
 Depth to water UNK feet
 Please attach a copy of the DWR Well Completion Report, if available.

New Well Information

Will this be a New or Replacement Well? REPLACEMENT Distance from Existing Well (please use the New Point of Extraction Well Application if the new well will be greater than 300 feet from the existing well)

New Well Latitude/Longitude (or x, y) 34.67861, -117.93647

Use(s) of New Well (agricultural, domestic, industrial, municipal, etc.) AGRICULTURAL

Estimated New Well pumping capacity 1,000 gpm Estimated annual production from New Well 275 acre-feet/year

Do other wells exist on this property? NO If Yes, indicate if active, inactive, or abandoned and show on Site Plan

Will a meter be installed on the well at the time of construction? YES If not, when will the meter be installed? _____

➡ **Site Plan**

An 8½" by 11" paper site plan must be attached to this application showing:

1. Location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.
2. North arrow and scale.
3. Locations of proposed well and existing well(s) with dimensions in feet between wells and to nearest cross streets.

➡ **Proposed Well Construction**

Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

Signatures

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information given in this application is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility, as the well owner, to notify the Antelope Valley Watermaster of any changes in the purpose or pumping capacity of this well, from which, is indicated on this application. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Property Owner/Well Owner DAN WELKE Date 1/3/2023

Signature of Well Driller Travis Spears Date 1/3/2023

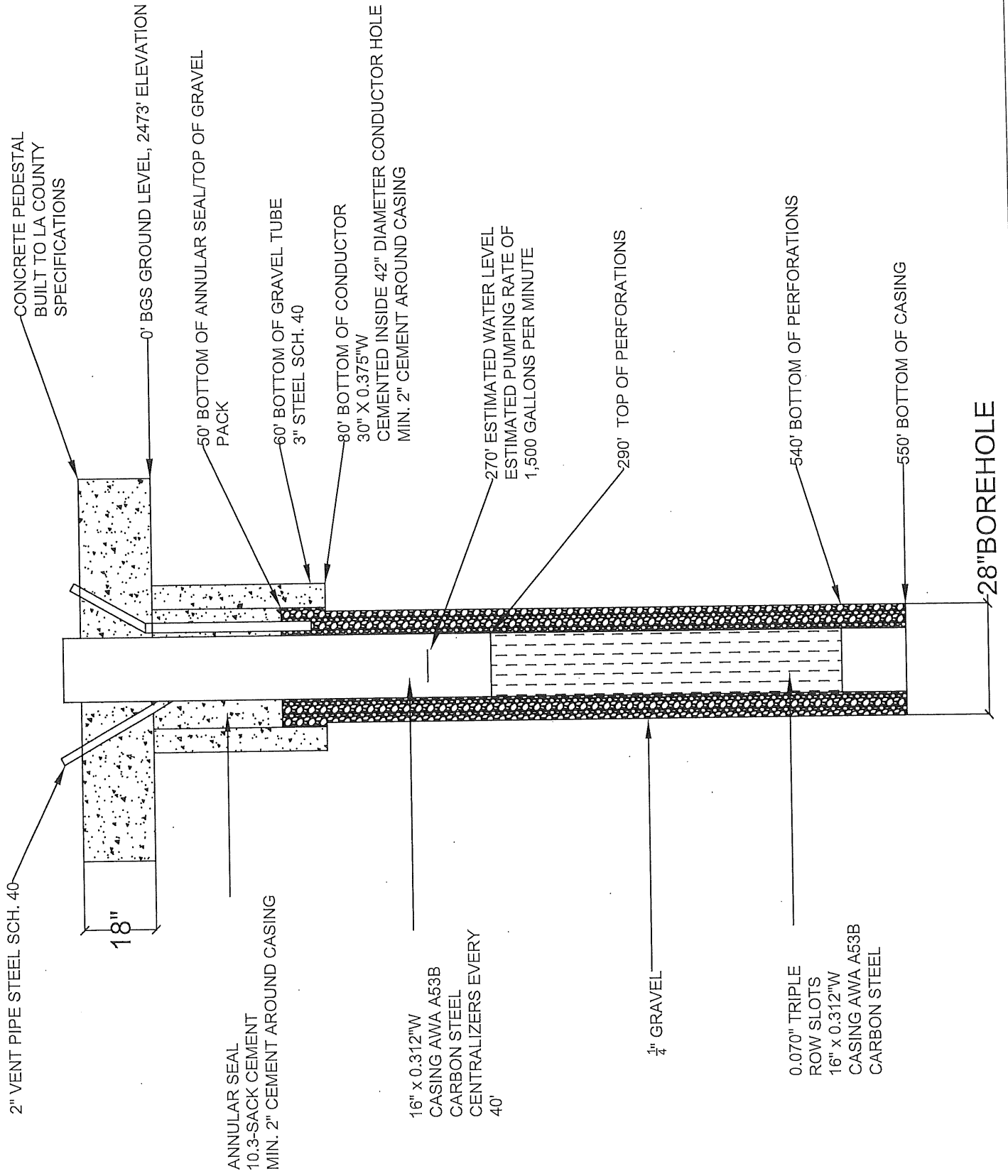
Signature of Consultant/Agent _____ Date _____

To be completed by the Watermaster:

Watermaster Staff Approval _____ Date _____

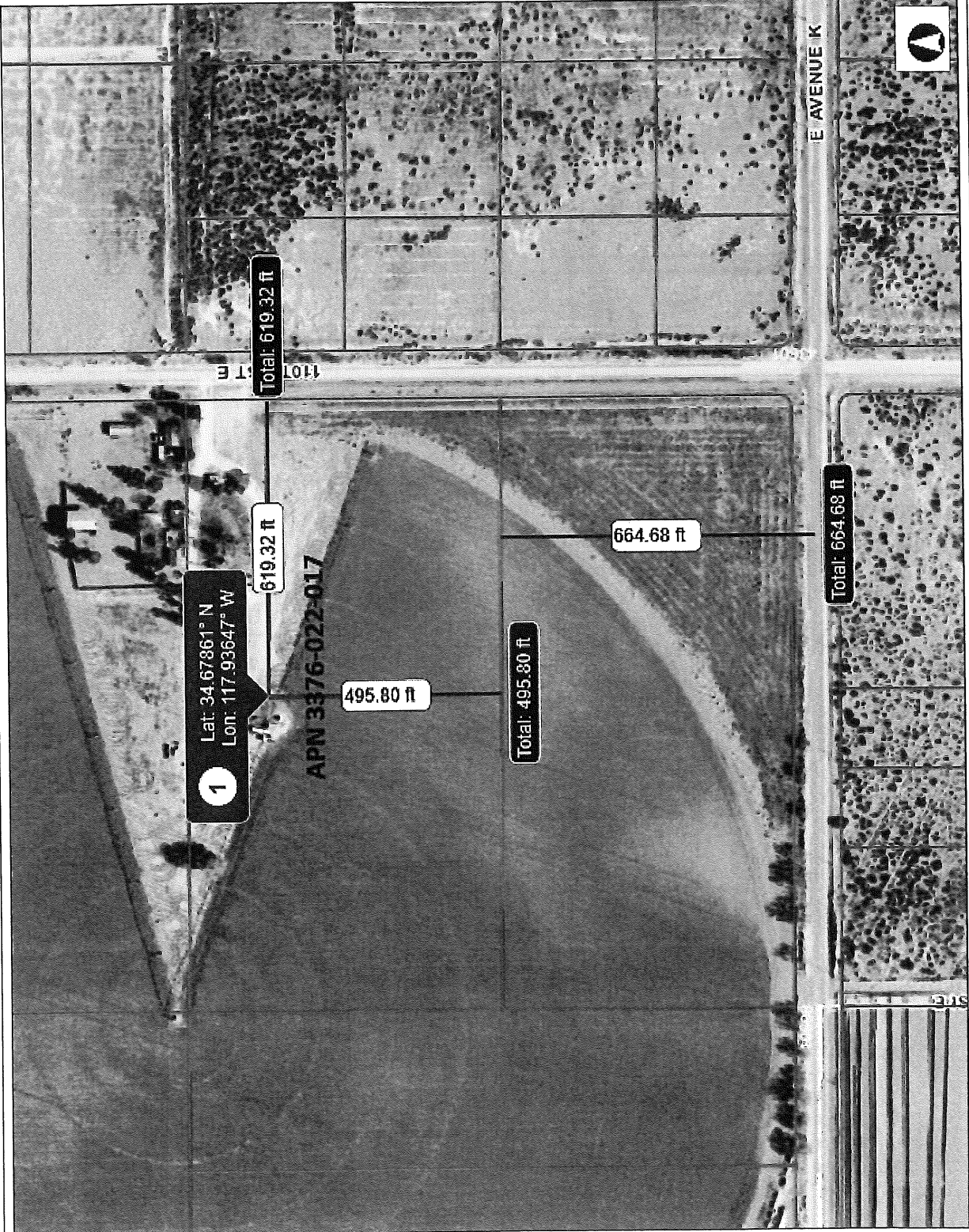
Watermaster Board Approval _____ Date _____

This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.





Los Angeles County GIS Viewer



Legend
☐ Parcels

Notes

0.1 0 0.07 0.1 Miles

County of Los Angeles

This map is for reference only and should not be used for legal decisions.
While the County of Los Angeles makes its best effort to ensure data is accurate, the County makes no representation or warranty of any kind.



Los Angeles County GIS Viewer



Legend
☐ Parcels

Notes

0.1 Miles

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0

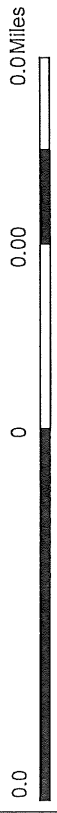
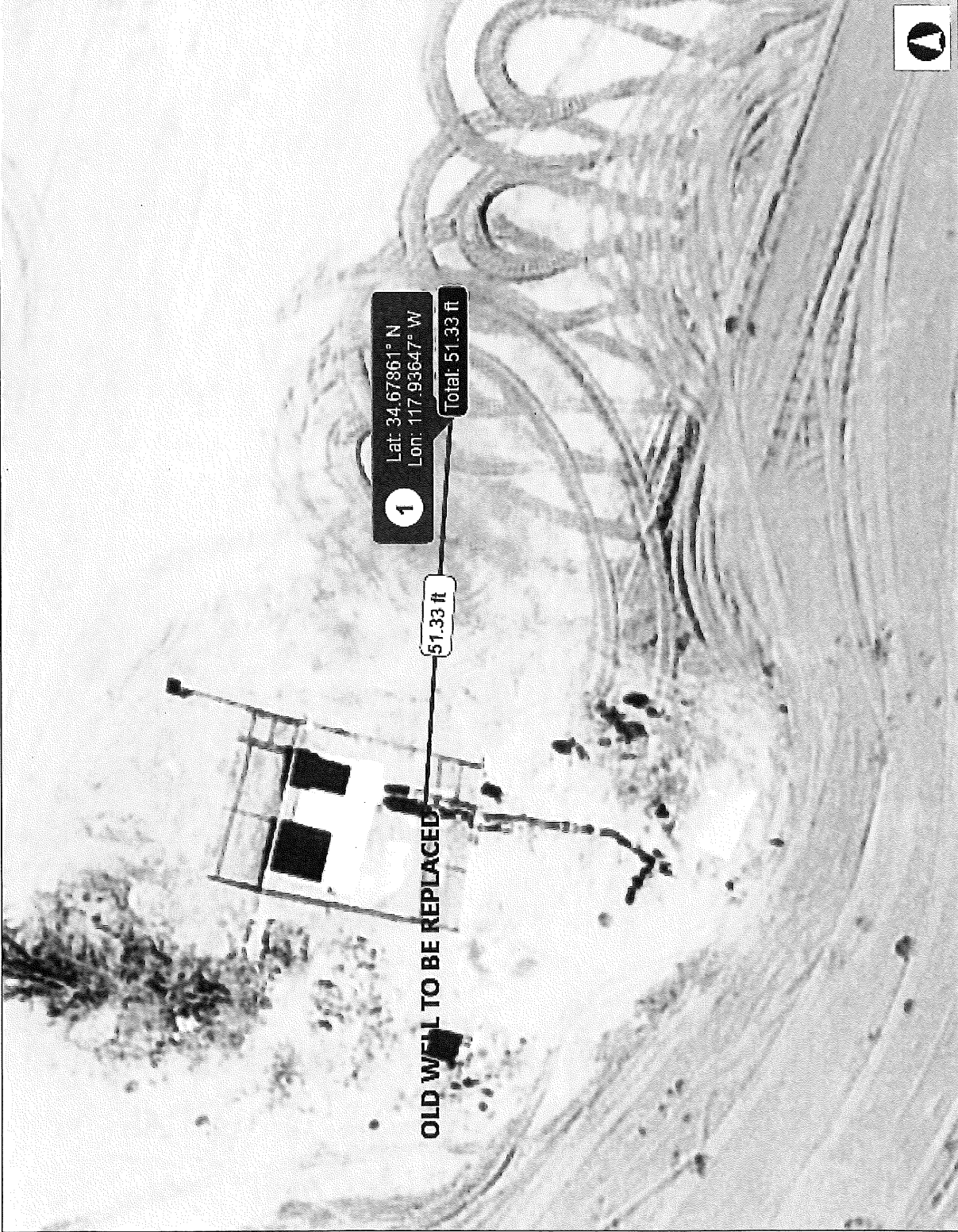
0.1

County of Los Angeles

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Los Angeles County GIS Viewer



County of Los Angeles

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Legend

Notes

Resolution No. R-23-34

Replacement Well – Bolthouse Properties, LLC

RESOLUTION NO. R-23-34

APPROVING APPLICATIONS FOR REPLACEMENT WELL FOR EXISTING PRODUCTION RIGHTS PURSUANT TO THE TERMS OF THE JUDGMENT; ATTACHED EXHIBIT A

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment ("Judgment"), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for small pumper qualification, applications for replacement well production for existing production rights, or applications for non-production wells is set forth in the Judgment and in the Rules and Regulations contained in the Memorandum from Todd Groundwater to the Watermaster Board dated March 2, 2018 and unanimously adopted by the Board pursuant to Resolution No. R-18-05; and

WHEREAS, the Watermaster Staff may recommend to the Watermaster Board that applications for replacement well production for existing production rights be denied or approved; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Board must deny or approve these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Staff has reviewed all the application listed on attached Exhibit A and has made the appropriate determinations for replacement well production as required under the Judgment and the Rules and Regulations; and

WHEREAS, the Watermaster Board has considered and adopts the determinations and recommendations of the Watermaster Staff and is prepared to approve the application listed on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the application for replacement well production of the Party or Person whose names and information are listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-34 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held on April 26, 2023, in Palmdale, California.

Date: _____

Robert Parris, Chairman

ATTEST: _____
Jessica Alwan – Secretary

Resolution No. R-23-34
APPROVING APPLICATIONS FOR REPLACEMENT WELL FOR EXISTING
PRODUCTION RIGHTS PURSUANT TO THE TERMS OF THE JUDGMENT;

Exhibit A

APN#	Request Type	Use of Well	Subarea	Applicant/Property Owner
3378-005-001	Replacement Well	Agricultural	Central Antelope	Bolthouse Properties, LLC

**BOARD OF DIRECTORS**

Robert Parris – Chair
 AVEK Representative
 Kathy Maclaren – Vice Chair
 Public Water Suppliers Representative
 Russ Bryden
 LACWW Representative
 Brandon Calandri
 Landowner Representative
 Derek Yurosek
 Landowner Representative

April 14, 2022

Robert Parris, Chair
 Antelope Valley Watermaster Board

Re: Replacement Well Application
 Bolthouse Properties, LLC
 APN 3378-005-001 (Central Antelope Subarea)

Watermaster Board:

The Watermaster Administrative Staff has reviewed the application mentioned above for a Replacement Well in the Central Antelope Subarea. The replacement well will be used for agricultural water supply and will be constructed less than 300' from the existing well it will replace.

Once available, the applicant must provide to the AV Watermaster evidence of the following:

- Proper decommissioning of the abandoned well
- Documentation of meter installation on the replacement well

Sincerely,

Joshua Montoya
 Administrative Staff

REPLACEMENT WELL APPLICATION

(FOR EXISTING PRODUCTION RIGHTS)

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:
<https://avwatermaster.net>. Make check out to Antelope Valley Watermaster

Please mail to Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to
info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

This form is for applicants with known production rights to request a replacement well within 300 feet of an existing well owned and operated by the applicant. If the proposed well is greater than 300 feet from an existing well, please use the New Point of Extraction Application instead of this form. If new production rights are being requested, please use the New Production Application instead of this form.

Date 1/3/2023 Well Site APN 3378-005-001
 Property Owner/Well Owner BOLTHOUSE LAND COMPANY/BOLTHOUSE PROPERTIES, LLC.
 Property Owner/Well Owner Mailing Address 11601 BOLTHOUSE DR #200, BAKERSFIELD, CA 93311
 Property Address, if different than Owner's Address 34.67053312, -117.95175621
 Contact Phone Number 661-330-2617 Contact email DAN.WILKE@BOLTHOUSE.COM
 Owner's name as Appears in Antelope Valley Adjudication Judgment BOLTHOUSE PROPERTIES, LLC
 Production Rights as listed in Antelope Valley Adjudication Judgment 9,945.00 acre-feet/year

Driller Information

Drilling Company SOUTH VALLEY COMPANIES, INC. DBA SOUTH VALLEY PUMP AND DRILLING
 Drilling Company Address 19325 FLIGHTPATH WAY, BAKERSFIELD, CA 93308
 Drilling Company Phone Number 661-831-5703 Drilling Company email TRAVIS@SVCOS.COM

Existing Well Information

Will the New Well replace an Existing Well? YES Existing Well Latitude/Longitude (or x, y) 34.670783, -117.951748
 Will the New Well be used in order to stop sharing a well? NO **Please provide a copy of the shared well agreement.** If
 so, please provide estimations of annual Production of the Shared Well by year for the 1946 through 2015 time period to
 the best of your knowledge _____

Estimated future annual production of the Existing Well once the New Well has been constructed NONE
 Will the Existing Well be destroyed? YES If not, why not? _____
 Existing Well pumping capacity 0 gpm Average annual production from Existing Well 0 acre-feet/year
 Use(s) of the Existing Well (agricultural, domestic, industrial, municipal, monitoring, etc.) AGRICULTURAL
 Status (active, inactive) INACTIVE
 Existing Well construction date 8/20/99 Casing Materials STEEL Casing Diameter 16 inches
 Surface seal material and depth 10-SACK CEMENT Screen depths (top/bottom) 335-455;475-535 feet
 Well Depth 535 feet Ground surface elevation 2,493 feet above mean sea level
 Depth to water 307 feet

Please attach a copy of the DWR Well Completion Report, if available.

New Well Information

Will this be a New or Replacement Well? REPLACEMENT Distance from Existing Well (please use the New Point of Extraction Well Application if the new well will be greater than 300 feet from the existing well)

New Well Latitude/Longitude (or x, y) 34.67053312, -117.95175621

Use(s) of New Well (agricultural, domestic, industrial, municipal, etc.) AGRICULTURAL

Estimated New Well pumping capacity 1,500 gpm Estimated annual production from New Well 275 acre-feet/year

Do other wells exist on this property? YES If Yes, indicate if active, inactive, or abandoned and show on Site Plan

Will a meter be installed on the well at the time of construction? YES If not, when will the meter be installed? _____

➡ **Site Plan**

An 8½" by 11" paper site plan must be attached to this application showing:

1. Location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.
2. North arrow and scale.
3. Locations of proposed well and existing well(s) with dimensions in feet between wells and to nearest cross streets.

➡ **Proposed Well Construction**

Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

Signatures

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information given in this application is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility, as the well owner, to notify the Antelope Valley Watermaster of any changes in the purpose or pumping capacity of this well, from which, is indicated on this application. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment.

Signature of Property Owner/Well Owner DAN WELKE Date 1/3/2023

Signature of Well Driller Travis Spears Date 1/3/2023

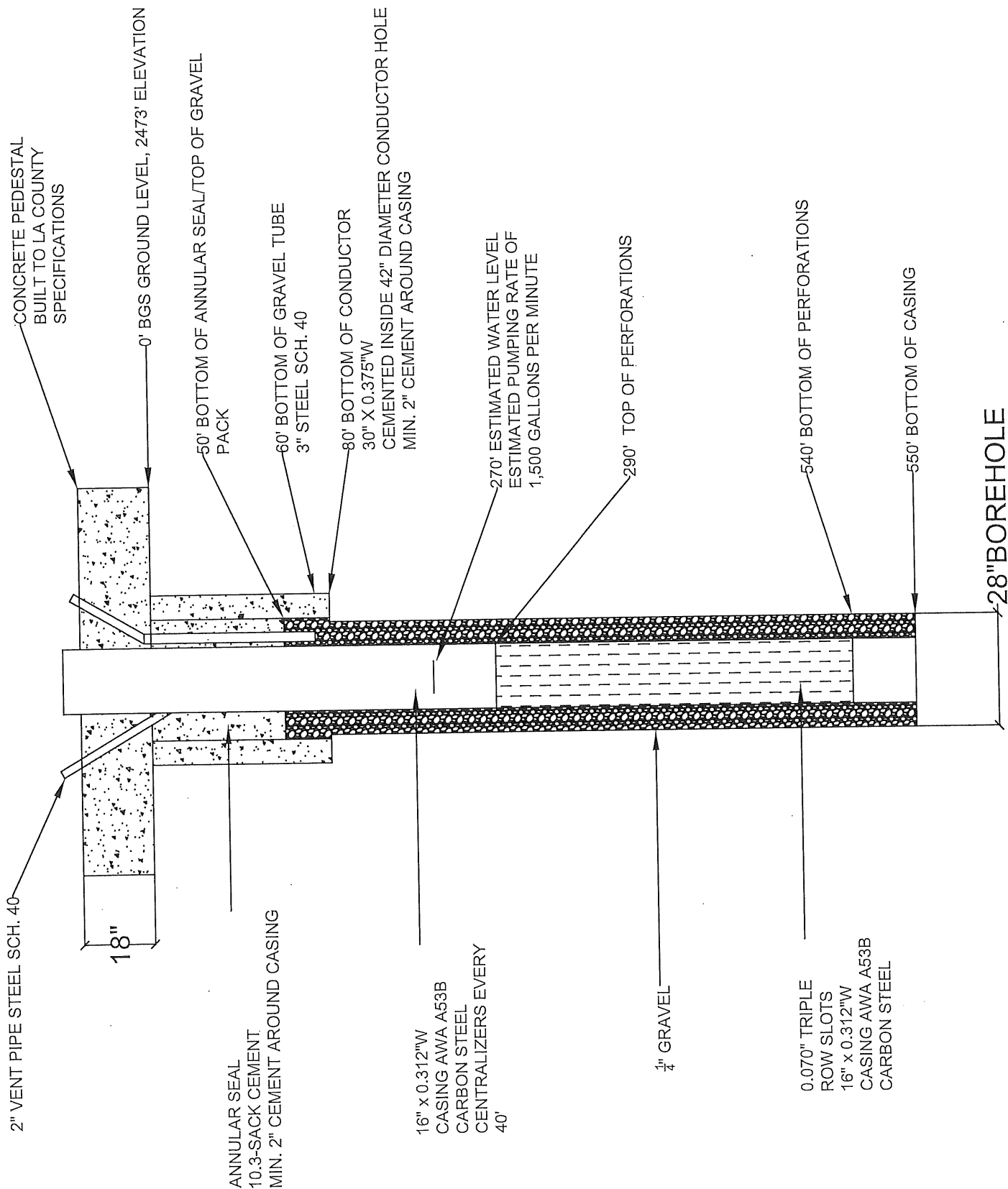
Signature of Consultant/Agent _____ Date _____

To be completed by the Watermaster:

Watermaster Staff Approval _____ Date _____

Watermaster Board Approval _____ Date _____

This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.



DUPLICATE
Driller's Copy

Page 1 of 1

Owner's Well No. _____

Date Work Began 8/4/99, Ended 8/20/99

Local Permit Agency Los Angeles County Health Services

Permit No. _____ Permit Date 8/3/99

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. **539650**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG

ORIENTATION () ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE _____ (SPECIFY)

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DESCRIPTION

Describe material, grain size, color, etc.

DEPTH FROM SURFACE	FL.	TO	FL.	DESCRIPTION
0	240			Fine to coarse sand
240	260			Fine to coarse sand with gravel lenses
260	300			Fine to coarse sand
300	310			Fine to coarse sand with cobbles
310	430			Fine to coarse sand
430	444			Fine to coarse sand with clay lenses
444	504			Fine to coarse sand
504	533			Fine to med sand with hard lenses
533	535			Decomposed granite
535	540			Granite

WELL OWNER
Name **WM Bolthouse Farms**

Mailing Address **7200 East Brundage Lane**

Bakersfield, CA 93307-3099

CITY STATE ZIP

WELL LOCATION

Address **100th St East, South of Ave. K6**

City **Lancaster**

County **Los Angeles**

APN Book _____ Page _____ Parcel _____

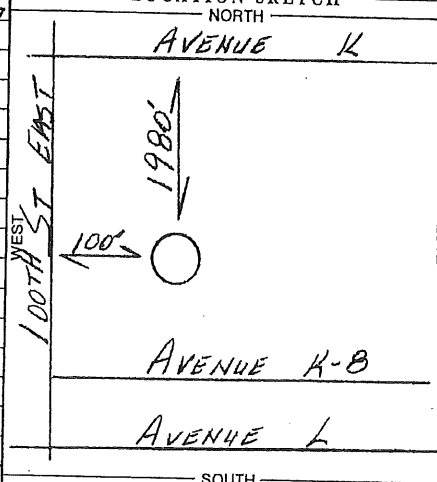
Township **7N** Range **10W** Section **21**

Latitude _____ North Longitude _____ West

DEG. MIN. SEC.

DEG. MIN. SEC.

LOCATION SKETCH



Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY ()

☒ NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S)

()

MONITORING

WATER SUPPLY

Domestic

Public

☒ Irrigation

Industrial

"TEST WELL"

CATHODIC PROTECTION

OTHER (Specify)

DRILLING METHOD **Direct Rotary** FLUID **Bentonite**

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL **307** (Ft.) & DATE MEASURED **8/20/99**

ESTIMATED YIELD **1800** (GPM) & TEST TYPE **pump**

TEST LENGTH **8** (Hrs.) TOTAL DRAWDOWN **81** (Ft.)

* May not be representative of a well's long-term yield. **388' pl**

TOTAL DEPTH OF BORING **540** (Feet)

TOTAL DEPTH OF COMPLETED WELL **535** (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						DEPTH FROM SURFACE	ANNULAR MATERIAL			
		TYPE ()	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)			TYPE			
0	335	26	X	A53B	15.375	.312		0	50	X		10 sack
335	455	26	X	Wirewrap	15.375	XXHD	.080	50	540		X	1/4 X 10
455	475	26	X	A53B	15.375	.312	.080					
475	535	26	X	Wirewrap	15.375	XXHD	.080					
0	60		X	PVC	3.00	Sch 40						

ATTACHMENTS ()

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **Rottman Drilling Co.**

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

46471 N. Division St., Lancaster, CA 93535-5906

ADDRESS **Larry W. Rottman, President** CITY STATE ZIP

Signed **Larry W. Rottman** WELL DRILLER/AUTHORIZED REPRESENTATIVE

8/27/99

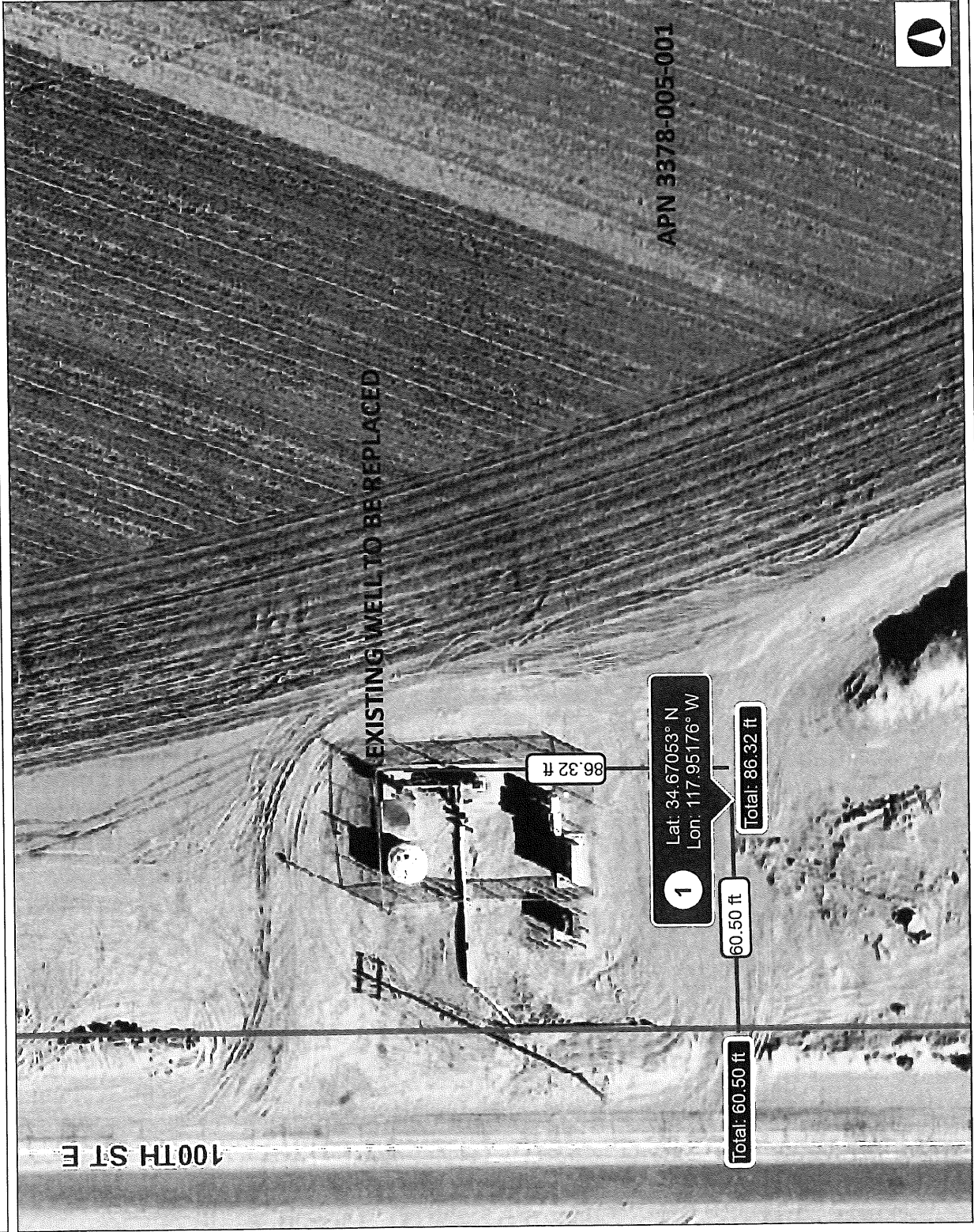
316599

DATE SIGNED

C-57 LICENSE NUMBER



Los Angeles County GIS Viewer



Legend

☐ Parcels

Notes

0.0 Miles

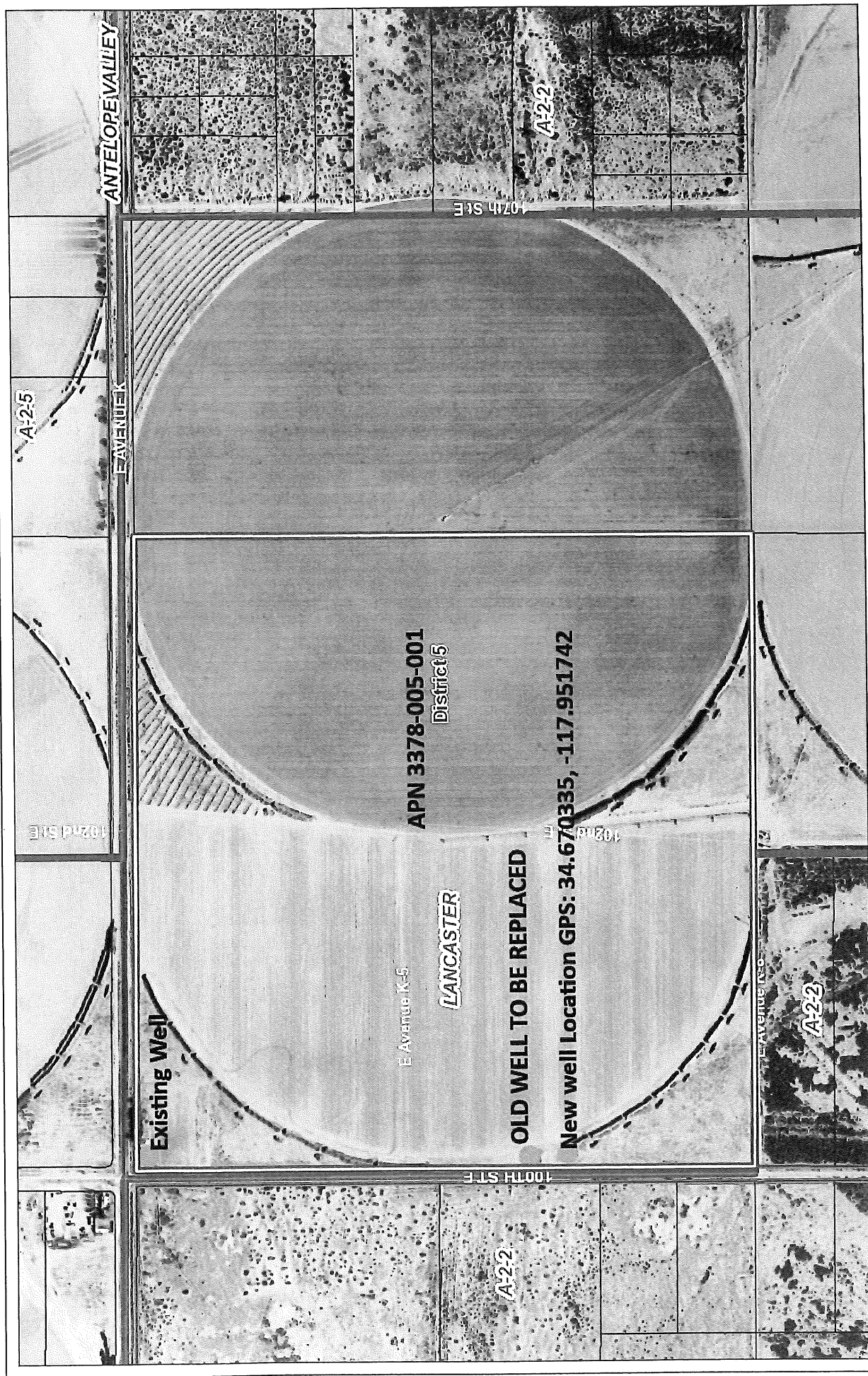
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County of Los Angeles

This map is for reference only and should not be used for legal decisions. While the County of Los Angeles makes its best effort to ensure data is accurate, the County makes no representation or warranty of any kind.



Bolthouse Properties Pardee 28-1S Replacement Well

Created in GIS-NET Public

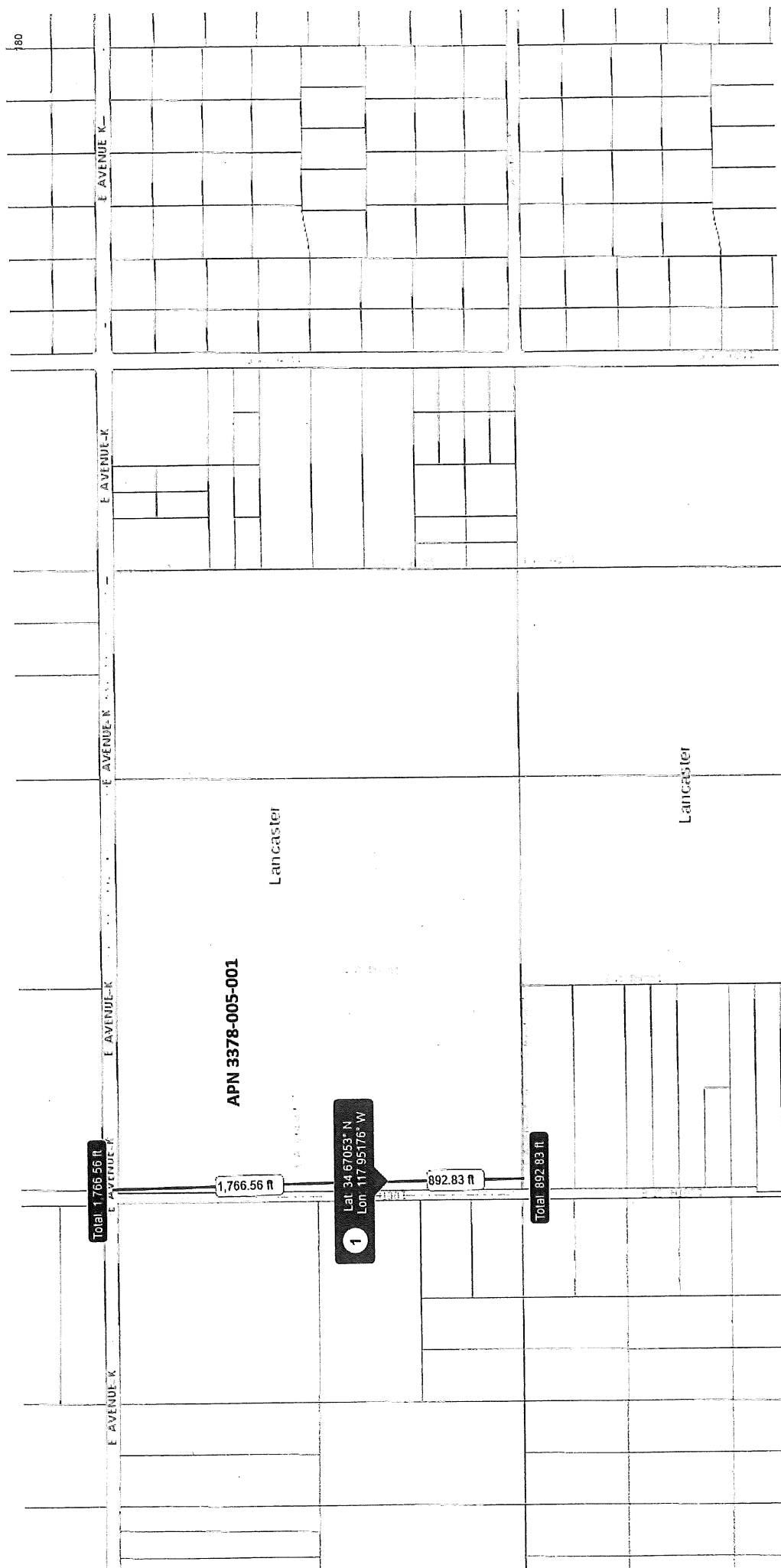
0 334 668 Feet



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Printed: 2/10/20



Administrator's Report

Summary of New Production and Qualified Small Pumpers

Summary of New Production and Qualified Small Pumpers Approved by the Antelope Valley Watermaster Board

as of April 7, 2023

These tables show the number of New Production and Qualified Small Pumpers approved by the Board as of the last Board meeting. The tables on the left summarize approved New Production amounts by year or by subarea. The tables on the right summarize approved Qualified Small Pumpers by year or by subarea. The New Production Parties will pay Replacement Water Assessments for all produced water. The Qualified Small Pumpers can pump up to 3 AFY.

NEW PRODUCTION

Approved New Production By Year (AFY)	
Calendar Year	Total ²
2018	26.66
2019	24.50
2020 ¹	98.83
2021	319.65
2022 ^{1,4}	49.28
2023	308.5
TOTAL	827.42

Approved New Production By Subarea (AFY)	
Subarea	Total ²
Central ⁴	202.93
South East	448.69
West ¹	170.30
Rogers Lake	0.00
Willow Springs	5.50
TOTAL	827.42

QUALIFIED SMALL PUMPERS

Approved Qualified Small Pumpers By Year (AFY)	
Calendar Year	Total ³
2018	126.00
2019	99.00
2020	21.00
2021	18.00
2022	9.00
TOTAL	273.00

Approved Qualified Small Pumpers By Subarea (AFY)	
Subarea	Total ³
Central	57.00
South East	189.00
West	12.00
Rogers Lake	3.00
Willow Springs	12.00
TOTAL	273.00

1. Mr. Banuk was granted 215 AFY of New Production for use in 2020 and 2021. It was extended through April 2022. This amount is no longer shown in this table. However, in 2022, he was granted 15.4 AF for use in 2023 that is included in this table.

2. New Production totals do not include 5 approved New Production applicants that have decided not to drill or complete their well. These applications have been rescinded.

3. Qualified Small Pumper numbers from AVWM staff and assume 3 AFY for each approved Qualified Small Pumper.

4. Del Sur Gardens was an existing small pumper and submitted a new production application for 4.38 AFY. Because 3 AFY are covered under their small pumper right, 1.38 was added to the New Production total.

General Counsel's Report

March 27, 2023

VIA E-MAIL ONLY

Bennie Moore
3600 Harbor Blvd, Suite 110-470
Oxnard, CA 93035

moswaterstation@aol.com

Re: Advertising of Water Rights Lease Opportunity

Dear Mr. Moore:

As you know, this office serves as General Counsel to the Antelope Valley Watermaster ("Watermaster"). As a reminder, the Watermaster was created by the Los Angeles Superior Court, and is charged with assisting the Court in administering the terms of the Judgment and Physical Solution dated December 23, 2015 ("Judgment") relating to the Antelope Valley Adjudicated Basin ("Basin").¹ The Judgment spells out in detail all the rights to groundwater in the Basin. Any groundwater pumping outside of an identified right to do so pursuant to the terms specified in the Judgment is strictly prohibited.

We are in receipt of a copy of a letter from you that has been distributed to various parties regarding an opportunity to lease purported water rights associated with your property in Lancaster. As you have done in the past, you purport to hold water rights from the Federal government.

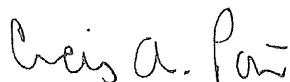
As we have explained to you previously, you have no rights to pump groundwater in the Basin except pursuant to the Judgment. You consented to the Court's jurisdiction and filed an answer, but then did not appear, and are therefore listed on Exhibits B and D to the Judgment.

¹ Available at: <https://avwatermaster.net/resources/exhibits-charts/>

For these reasons, you have no water rights pursuant to the Judgment or the Physical Solution in this case because you are among a group of non-appearing parties who did not vindicate their water rights through the adjudication, and as such are the same as defaulted parties whose groundwater production can be enjoined. None of the documentation provided in your advertisement indicates otherwise.

Therefore, any groundwater you pump from the Basin is in violation of the Judgment. As a result, any purported pumping of groundwater from the Basin by you or a lessee is in violation of the Judgment, and will be subject to legal action by the Watermaster for monetary, declaratory and injunctive relief. If you produce groundwater from your property currently or in the past, you are required to submit annual groundwater production reports for all years since 2016, and further must submit an application for New Production if you intend to continue producing groundwater. We expect that you will cease and desist from further advertising a lease of water rights that you do not possess.

Sincerely,

A handwritten signature in black ink that reads "Craig A. Parton". The signature is written in a cursive, slightly slanted style.

Craig A. Parton
for PRICE, POSTEL & PARMA LLP

cc: Watermaster Board
Watermaster Engineer
Watermaster Administrative Staff

Exhibit D

**Antelope Valley Watermaster Board
Meeting Agenda
Wednesday, June 28, 2023 – 10:00 a.m.
Location: Antelope Valley – East Kern Water Agency
6450 West Avenue N, Palmdale, CA 93551**

or

Website: <https://zoom.us/j/687127281> **Teleconference: (669) 900-6833 Access Code: 687 127 281**

This meeting may be recorded

Teleconference Locations:

6450 West Avenue N, Palmdale, CA 93551

10500 NE 8th Street, Suite 1550 Bellevue, WA 98004

1) Call to Order

2) Roll Call

BOARD OF DIRECTORS

Robert Parris, AVEK Representative – Chairperson

Kathy MacLaren, Public Water Supplier Representative – Vice-Chairperson

Russ Bryden, Los Angeles County Waterworks District 40 Representative

Brandon Calandri, Landowner Representative

Derek Yurosek, Landowner Representative

Matthew Knudson, AVEK Representative Alternate

Angelica Martin, Landowner Representative Alternate

Adrienne Lewis Reca, Landowner Representative Alternate

Barbara Hogan, Public Water Supplier Representative Alternate

Sami Kabar, Los Angeles County Waterworks District 40 Representative Alternate

Jim Beck, Hallmark Group – Watermaster Administrator

Jessica Alwan, Hallmark Group – Watermaster Administrator

Joshua Montoya, Hallmark Group – Watermaster Administrator

Phyllis Stanin, Todd Groundwater – Watermaster Engineer

Arden Wells, Todd Groundwater – Watermaster Engineer

Craig Parton, Price, Postel & Parma LLP – General Counsel

Cameron Goodman, Price, Postel & Parma LLP – General Counsel

3) Adoption of the Agenda *(Note: At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.)*

4) Public comments for non-agenda items *(This portion of the agenda allows an individual the opportunity to address the Board on any item regarding Watermaster business that is NOT ON THE AGENDA. Without acting or entering a dialogue with the public, Board members may ask clarifying questions about topics posed by the public. Your matter may be referred to the administrator and/or advisory committee.)*

5) Consent Agenda *(Staff Report: Administrator)*

Item	Description	Page
a.	Financial Report and Payment of bills through May 31, 2023	6
b.	Minutes of May 24, 2023, Regular Meeting	26

6) Advisory Committee Report (*Advisory Committee Chair Chaisson*)

Item	Description	Page
a.	Advisory Committee Written Report	32

7) Administrative Committee Report (*Staff Report: Administrator*)

Item	Description
a.	Administrative Committee Report

8) Public Hearing to Consider 2023 Supplemental Administrative Assessment (*Staff Report: General Counsel*)

Item	Description	Page
a.	Opening of the Public Hearing	45
	(i) Present 2023 Supplemental Administrative Assessment	
	(ii) Public Comments	
b.	Closing of Public Hearing	

9) Consideration and Possible Action to Approve 2023 Supplemental Administrative Assessment (*Staff Report: Administrative Staff*)

Item	Resolution No.	Description	Page
a.	R-23-41	2023 Supplemental Administrative Assessment	45

10) Consideration and Possible Action to Approve Hallmark Group Amendment No. 4

Item	Description	Page
a.	Amendment No. 4 to Administer the 2023 Supplemental Administrative Assessment	54

11) Public Hearing to Consider 2023 Replacement Water Assessment

Item	Description	Page
a.	Opening of the Public Hearing	61
	(i) Present 2023 Replacement Water Assessment	
	(ii) Public Comments	
b.	Closing of Public Hearing	

12) Consideration and Possible Action on Adopting Replacement Water Assessment for Year 2023

Item	Resolution No.	Description	Page
a.	R-23-42	Replacement Water Assessment for Year 2023	61

13) Consideration and Possible Action on 2022 Annual Audit *(Staff Report: Administrative Staff)*

Item	Description	Page
a.	Consideration and Possible Action on Accepting and Filing the Annual Financial Report for Year Ended December 31, 2022	65

14) Consideration and Possible Action on Accepting Revised Replacement Water Payment Plan for Joshua Acres Mutual Water Company *(Staff Report: Administrative Staff)*

Item	Description	Page
a.	Revised Replacement Water Payment Plan for Joshua Acres Mutual Water Company	105

15) Update on Amendment to Rules and Regulations for Delinquent Annual Production Reports *(Staff Report: General Counsel)*

Item	Description	Page
a.	Update on Amendment to Rules and Regulations for Delinquent Annual Production Reports	110

16) Consideration and Possible Action on Transfer application *(Staff Report: Engineering)*

Item	Resolution No.	Description	Page
a.	R-23-37	AVEK to LACW District 40	113
b.	R-23-43	Pamela Godde to Robertson's Ready Mix	137
c.	R-23-44	Steven and Denise Godde to Robertson's Ready Mix	158
d.	R-23-45	Pamela Godde to WVCWD	179
e.	R-23-46	R&M to RTS (Permanent)	199
f.	R-23-47	R&M to RTS (Temporary)	233
g.	R-23-48	Steven and Richard Selak to 40 th St. E	249
h.	R-23-49	Tierra Bonita to Bolthouse	270

17) Consideration and Possible Action on New Production application *(Staff Report: Engineer)*

Item	Resolution No.	Description	Page
a.	R-23-04	Barrel Springs (120 AF)	286
b.	R-23-50	Banuk (215 AF)	324
c.	R-23-51	Camilleri (1 AF)	348

18) Consideration and Possible Action on New Point of Extraction *(Staff Report: Engineering)*

Item	Resolution No.	Description	Page
a.	R-23-52	Gailen and Julie Kyle	363

19) Consideration and Possible Action on Groundwater Banking and Recovery Storage *(Staff Report: Engineer)*

Item	Resolution No.	Description	Page
a.	R-23-55	Antelope Valley-East Kern Agency	378

20) Consideration and Possible Action on Well Application *(Staff Report: Administrative Staff)*

Item	Resolution No.	Description	Page
a.	R-23-53	Keith Mettler – Replacement Well Application	425
b.	R-23-54	Keith Mettler – Replacement Well Application	433

21) Administrator's Report

Item	Description	Page
a.	Update on Administration Activities	

22) Watermaster Engineer's Report

Item	Description	Page
a.	Summary of New Production and Qualified Small Pumpers	442
b.	Model Update	
c.	Annual Report Update	

23) General Counsel's Report

Item	Description	Page
a.	Update on Court Proceedings	444
b.	Update on Draft Letter to Los Angeles County Board of Supervisors	445
c.	Update on Zamrzla's Motions to Set Aside the Judgment	447

24) Board Members Request for Future Agenda Items**25) Closed Session, Conference with Legal Counsel General Counsel's Report**

Item	Description
a.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Zamrzla Parties
b.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Rancho Sierra Properties, LLC
c.	CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION [Government Code Section 54956.9(d)(1)] Watermaster Motion against Antelope Valley Resource Conservation District
d.	CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2): Gary Van Dam.
e.	CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2): Barrel Springs Properties LLC.
f.	CONFERENCE WITH LEGAL COUNSEL--ANTICIPATED LITIGATION Initiation of litigation pursuant to Government Code Section 54956.9(d)(4): one potential case

26) Closed Session Report

27) Consideration and Possible Action on Transfer application *(Staff Report: Engineering)*

Item	Resolution No.	Description	Page
a.	R-23-27	High Desert Dairy to Craig Van Dam	463

28) Adjournment – Next Meeting July 26, 2023

Resolution No. R-23-50

New Production Application – Banuk

RESOLUTION NO. R-23-50

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT;
ATTACHED EXHIBIT A**

WHEREAS, the Antelope Valley Watermaster, formed by the Antelope Valley Groundwater Cases Final Judgment ("Judgment"), Santa Clara Case No. 1-05-CV-049053 signed December 23, 2015, is to administer the Judgment; and

WHEREAS, a process for considering and approving applications for new production is set forth in the Judgment and in the Rules and Regulations unanimously adopted by the Board pursuant to Resolution No. R-20-12; and

WHEREAS, the Watermaster Engineer is authorized under the Judgment to recommend to the Watermaster Board that application for new production be denied or approved, and that approval may be pursuant to certain conditions such as payment of a replacement water assessment; and

WHEREAS, pursuant to the terms of the Judgment, the Watermaster Engineer is required to make certain findings and to consider, investigate and recommend to the Watermaster Board denial or approval, or approval with certain conditions, of these applications consistent with the terms of the Judgment; and

WHEREAS, the Watermaster Engineer has reviewed all the applications listed on attached Exhibit A and has made the appropriate findings, including that the applicant has a right to produce groundwater under the Judgment or otherwise agrees to purchase replacement water, that all conditions for new production are met under the Judgment and the Rules and Regulations, and that no Material Injury will result from the proposed production; and

WHEREAS, the Watermaster Board has considered and adopts the findings and recommendations of the Watermaster Engineer and is prepared to approve the application listed on Exhibit A pursuant to any conditions recommended by the Watermaster Engineer and so noted on Exhibit A.

NOW, THEREFORE, BE IT RESOLVED, that the Watermaster Board unanimously approves the applications for new production or new point of extraction of those Parties or Persons whose names and information are listed on attached Exhibit A to this Resolution as being consistent with the terms of the Judgment and applicable Rules and Regulations.

I certify that this is a true copy of Resolution No. R-23-50 as passed by the Board of Directors of the Antelope Valley Watermaster at its meeting held on June 28, 2023, in Palmdale, California.

Date: _____

ATTEST: _____
Jessica Alwan – Secretary

Robert Parris, Chairman

**Exhibit A Attachment to
Resolution No. R-23-50**

**APPROVING APPLICATIONS FOR NEW PRODUCTION
PURSUANT TO THE TERMS OF THE JUDGMENT**

APN#	Amount Requested	Use of Well	Subarea	Applicant/Property Owner
358-222-16	215 AF	Industrial	West Antelope	Ron Banuk

June 13 2023

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: APN# 358-222-16 (Banuk) New Production Application Findings

Watermaster Board:

Ron Banuk is a member of the Small Pumper Class in the West Antelope Subarea. He has two wells on his property: a domestic well that supplies water to his house and an industrial well. The industrial well has supplied construction water to nearby wind and solar farms since late 2018. He was granted 215 acre-feet per year (AFY) of New Production for two specific projects that have recently been completed and 15.4 AF (5,000,000 gallons) for use in 2023. He is now requesting 215 AF (70,068,500 gallons) for temporary New Production to use from November 2023 to December 2024 for construction water to a portion of the Rosamond South Solar Project by Clearway Energy Group. Water would be delivered to the area referred to as the Conditional Use Permit (CUP) Areas 2,3, and 4 in the solar project's Water Supply Assessment and as the North Rosamond Solar Project in the New Production Application provided by Mr. Banuk. The locations of the Banuk property and the Solar Project are shown on **Figure 1**.

Water produced by this well would be delivered to solar project site by 6-inch conduit instead of by water truck. The conduit will run from the well to tanks at the construction site, located about 1.5 miles southeast of the well. A map of the proposed conduit is included in the New Production Application submitted by Mr. Banuk. The water will be pumped in variable amounts following a bell-shaped curve from November 2023 to December 2024 (i.e., highest water use in summer). Water will primarily be used for dust control. While the Water Supply Assessment for this solar project notes that the panels may be washed occasionally, McCarthy Building Company, Inc. stated that at the moment no water is expected to be needed for operation and maintenance after construction.

Monitoring wells near both properties show that water levels have, in general, increased in recent years (**Figure 2**). This is likely due to the proximity of the parcels to the Westside Water Bank where recharge has occurred. Water levels in four of the five hydrographs shown in **Figure 2** have increased since 2018. Water levels in one of the hydrographs (USGS Well #31401) has shown a slight increase until 2019, then a slight decline between 2019 and 2021, then an increase between 2021 and 2022. The slight decrease in water levels in USGS Well #64501 may be due to decreased recharge in the past two years due to dry conditions.

BACKGROUND

In September 2020, Mr. Banuk was granted 215 AFY of New Production for use in 2020 and 2021 to support construction at two local solar array installation projects. One of the solar installation projects was not completed by the end of 2021 and his New Production application was extended to April 2022 (for the maximum use of 7.5 AF during the first four months of 2022). Mr. Banuk has complied with all terms and conditions, including meter installation, production reporting, and payment of Replacement Water Assessments.

In 2021, Mr. Banuk submitted a New Production application to continue using 215 AFY to support construction of new local solar installation projects, although no specific project was identified. This New Production application was not approved because it was not affiliated with an approved project.

In conjunction with that application, the Watermaster Engineer produced a June 2021 memorandum (attached) to document a Material Injury assessment for the 215 AFY. That Material Injury assessment can be extended to this New Production application. The memorandum concluded that the likelihood for Material Injury as defined by the Judgment was negligible. Since that memorandum was written, water levels at nearby monitoring wells have slightly increased (**Figure 2**). Because water levels have not declined and new wells have not been drilled near Mr. Banuk's parcel since this material injury analysis was conducted, Todd Groundwater considers the original findings to be applicable to the current application.

In October 2022, a New Production Application for 15.4 AF was approved for use in 2023 to provide construction water to a compressed gas energy storage center built by Rosendin Electric. Mr. Banuk has confirmed that production associated with this project will not overlap with the proposed project.

Mr. Banuk's industrial well is metered and has reportedly supplied the following amounts of water for construction of nearby energy generating facilities:

- 2016 = 0 AF
- 2017 = 0 AF
- 2018 = 0.13 AF
- 2019 = 81.94 AF
- 2020 = 176.87 AF
- 2021 = 115.81 AF
- 2022 = 1.35 AF

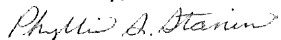
Mr. Banuk has noted that Rosendin Electric has expressed interest in using his well for future construction projects, and that some may overlap with production for the Rosamond South Solar Project during 2024. He has confirmed that he will submit a New Production application for any new project. Any new projects will be subject to a material injury analysis.

SUMMARY AND CONSIDERATIONS

Because Mr. Banuk will be required to pay a Replacement Water Assessment for production, there is no Material Injury associated with groundwater storage and sustainable yield. The New Production is not within the historical or current areas of inelastic land subsidence. Further, there is no expected impact to local water quality or recharge associated with new production at the Banuk well.

With regard to water levels, local hydrographs do not indicate significant water level declines in this area. In fact, due to local banking, water levels have risen slightly in recent monitoring events. In addition, no local reports of water level declines have been brought to the attention of the Watermaster during production from this well to date. Todd Groundwater finds that the likelihood for Material Injury for this application is negligible.

Sincerely,



Phyllis S. Stanin, P.G., C.Hg.

Todd Groundwater, Antelope Valley Watermaster Engineer

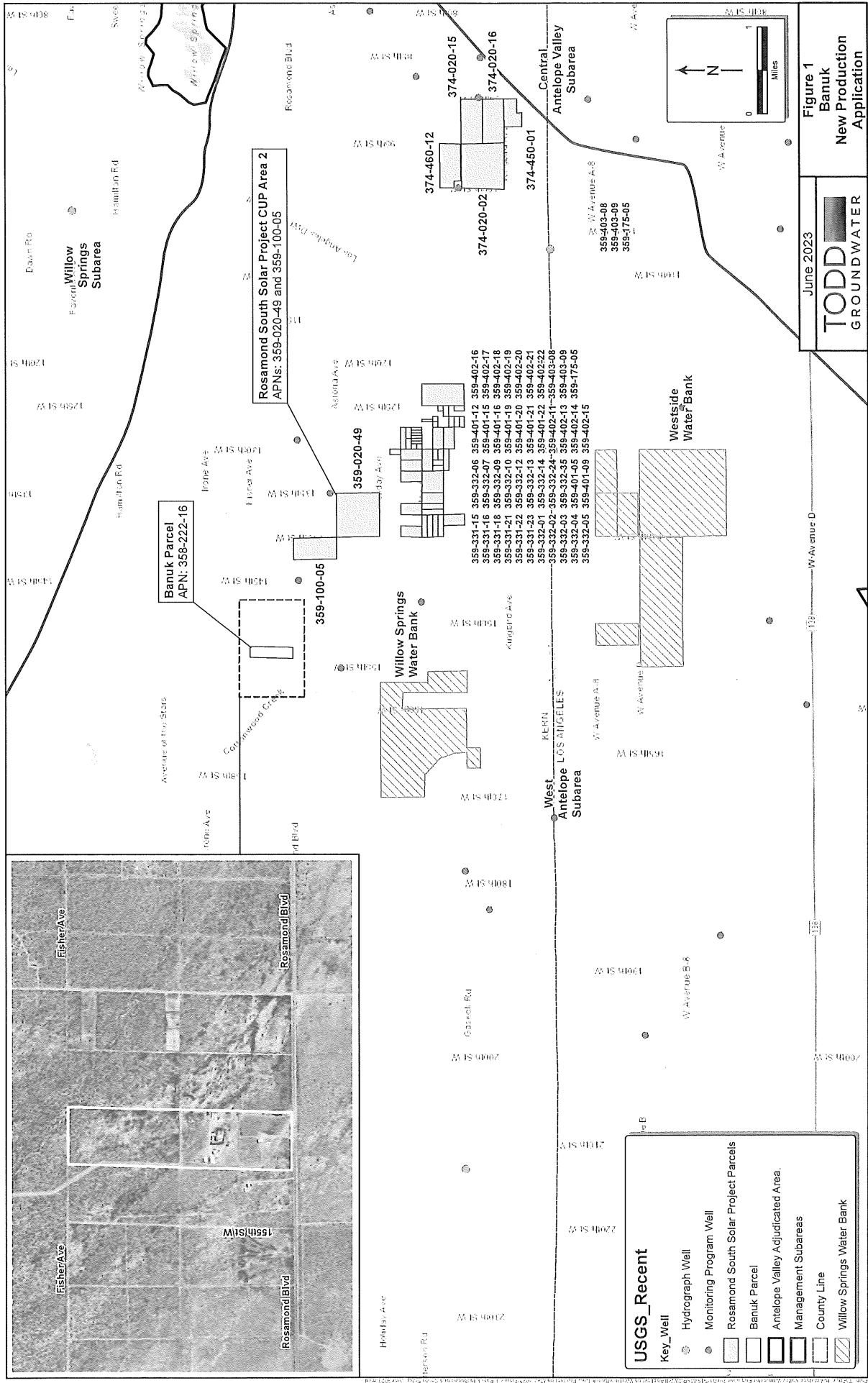
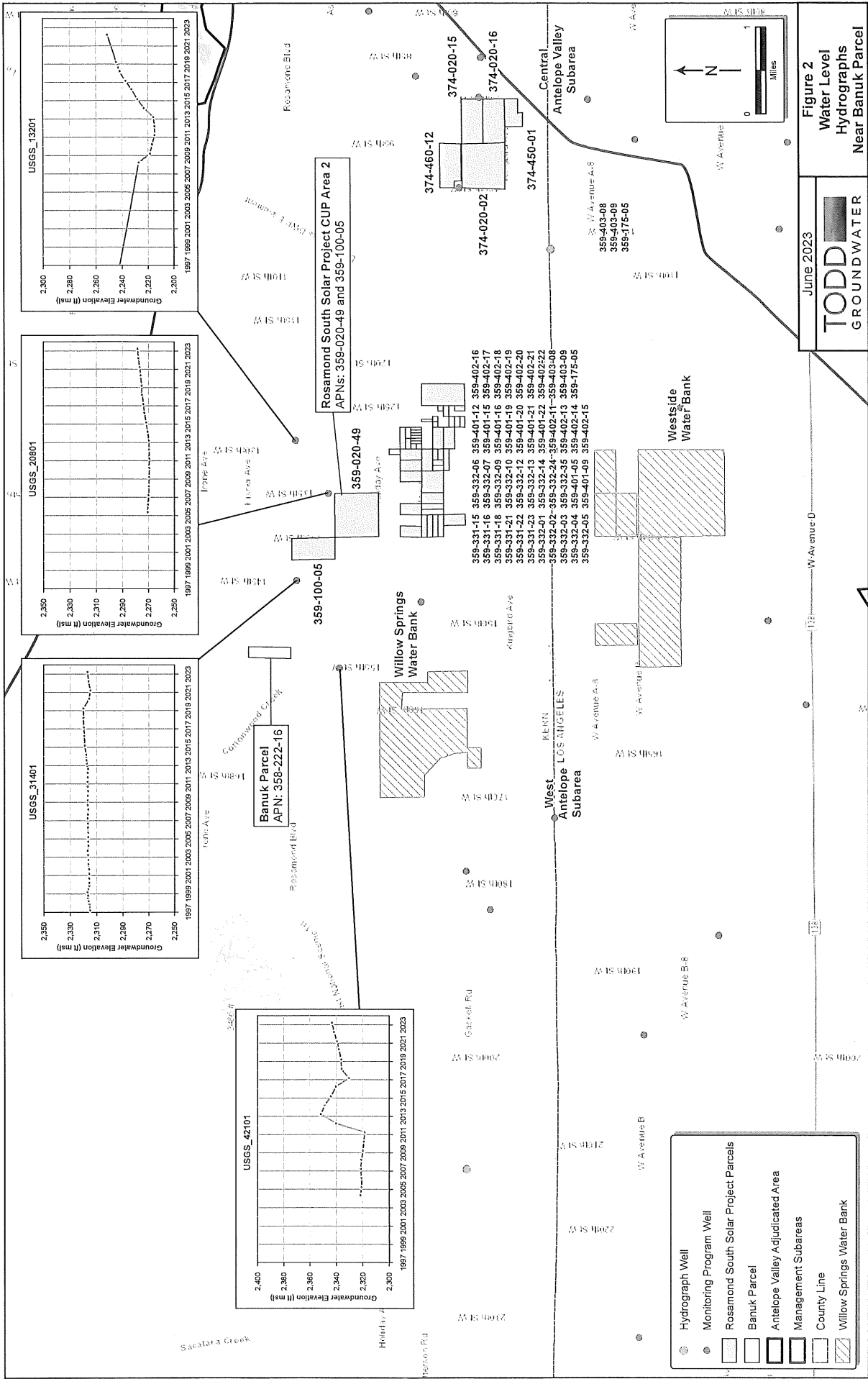


Figure 1
Banuk
New Production
Application

June 2023

TODD
GROUNDWATER



NEW PRODUCTION APPLICATION

ANTELOPE VALLEY WATERMASTER

Please include an application fee according to the fee schedule posted on the Watermaster website:

<https://avwatermaster.net>. Make check out to: Antelope Valley Watermaster

Mail to: Antelope Valley Watermaster, 500 Capitol Mall, Ste. 2350, Sacramento, CA 95814 OR email to:

info@avwatermaster.net

Call Watermaster Administrative staff at 661-234-8233 with questions.

Date 4 APRIL 2023

Proposed Well Site APN 358-222-16

Property Owner/Well Owner RON BANUK

Property Owner/Well Owner Mailing Address 15259 W. ROSAMOND BLVD, ROSAMOND CA 93560

Contact Phone Number 310-908-7771 Contact email RONBANUK@GMAIL.COM

New Well Latitude/Longitude (or x, y) 34° 51' 55" N Antelope Valley Subarea: SECT 18, T9N, R14W, SBM

Use of New Well (Agricultural, Domestic, Industrial, Municipal, Monitoring, etc.) INDUSTRIAL

If Domestic well, will well be used to supply one single family household only? Yes/No. —

Do other wells exist on this property? (Yes/No). If Yes, indicate if (active) inactive, or abandoned and show on Site Plan.

When will a meter be installed on the well? ZENNER ZTMO4 S/N 180 675 25

New Production requests are to include the following (Section 18.5.13 of the Judgment):

1. Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production. Please attach a check to this application submittal for the fee associated with a New Production application as per the fee schedule posted on the Watermaster website. Check can be made out to Antelope Valley Watermaster.
2. Written summary describing the proposed quantity, sources of supply, season of use, purpose of use, place of use, manner of delivery, and other pertinent information regarding the New Production.
3. Maps¹ identifying the location of the proposed New Production, including Basin Subarea.
4. Well information² including proposed well design, estimated annual pumping, and agreement to install a meter in accordance with the Rules & Regulations. Plus, a statement that once the well is installed, the applicant will provide water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production.
5. Written confirmation that applicant has obtained all necessary entitlements and permits including all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production.
6. Written confirmation that applicant has complied with applicable laws and regulations including all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.).
7. Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices.
8. Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
9. Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin.
10. A written statement, signed by a California licensed and registered professional civil engineer with expertise in groundwater hydrology, determining that the New Production will not cause Material Injury. Material injury could be in the form of

¹ Maps are to include North arrow and scale, location of proposed well with dimensions in feet from well to nearest cross streets, and location of site features, including major buildings, landscaped areas, all existing wells, roads, etc.

² Please attach a diagram showing proposed well construction, including maximum well depth, casing diameter and materials, ground surface elevation, screen intervals, and estimated pumping capacity. A completed DWR Well Completion Report is required to be submitted to the Antelope Valley Watermaster upon completion of well.

significant and unreasonable 1. Chronic lowering of groundwater levels, 2. Reduction of groundwater storage, 3. Degraded water quality, 4. Land subsidence, 5. Depletions of interconnected surface water such that beneficial uses are impacted.

11. Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.
12. Other pertinent information which the Watermaster Engineer may require.

In addition, all New Production applicants who are not Parties to the Judgment³ are to comply with Section 20.9 of the Judgment, consult with the Watermaster Engineer, and seek the Watermaster's stipulation to allow them to intervene to become bound by the Judgment prior to commencing Production. The non-Party applicant must file a motion to intervene with the court that includes reference to their effort to obtain the Watermaster's stipulation to the intervention. It is strongly recommended that the non-Party applicant consult with a lawyer to assist them with compliance with Section 20.9 of the Judgment. If applicant believes they are part of the Non-Pumper Class (see footnote below) and therefore does not need to intervene in the Judgment, please provide supporting documents or statements demonstrating adherence to items 1-6 in the footnote.

SIGNATURES

Under penalty of perjury, I understand and agree to be bound by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. I certify that the information provided on this Request for New Production is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days. I also understand that additional information may be required if there is a suspected potential for a material injury as defined in the Judgment. I further understand and agree that the purpose, place and quantity of New Production, if any, approved by the Watermaster pursuant to this application shall be the only purpose and place, and the maximum amount, of New Production that I can Produce in any given Year. I certify that I will comply with the restrictions set forth in Section 14.n of the Watermaster Rules and Regulations setting forth limitations on New Production, and that my failure to comply with these restrictions may result in a revocation of my New Production rights.

Signature of Applicant Pon Banick Date 4 APRIL 2023

³ An applicant may already be a Party to the Judgment if they are part of the Non-Pumper Class (Willis Class) and meet the criteria described in Section 3.5.22 of the Judgment, as follows:

1. They are a private party and not a "governmental" entity.
2. They (or their successor in interest—see no.4 below) own real property within the Adjudicated Area and were not pumping water at the time of the Judgment being entered as of December 2015.
3. They (or their successor in interest—see no. 4 below) did not pump water on their property "at any time during the five Years preceding January 18, 2006."
4. Non-Pumper class status applies to those who are successors in title or interest (via gift or purchase or inheritance or otherwise) to a Non-Pumper Class member's land that meets the above criteria.
5. Note the term "Non-Pumper Class Member" does not apply to those who opted out or to those connected to a municipal water system, public utility, or mutual water company from which they receive water service. Also, their land cannot be considered "improved" by the Assessor's Office of Los Angeles or Kern County, unless the person declares under penalty of perjury that they do not pump and have never pumped water on those properties.
6. Finally, the Non-Pumper Class does not include anyone individually named in the Public Water Suppliers' cross-complaint unless those persons opted into the Non-Pumper Class.

To be completed by the Watermaster:Watermaster Engineer Approval Phyllis A. Stanine Date 6/14/23

Watermaster Board Approval _____ Date _____

NOTE: This application is not for a well construction permit; a completed and approved application must be submitted to the appropriate well permitting agency (e.g., Kern or Los Angeles Counties) for a well construction permit, if the well is to be installed within the Antelope Valley Adjudicated Area.

Water Conservation Practices

ANTELOPE VALLEY WATERMASTER

☐ Domestic
 ☐ Agricultural
 ☒ Commercial/Industrial
 ☐ Municipal
 ☐ Monitoring

Date 4 APRIL 2023 Proposed Well Site APN 358-222-16

Property Owner/Well Owner RON BANUK

Property Owner/Well Owner Mailing Address 15259 W. ROSAMOND BLVD, ROSAMOND CA 93560

Contact Phone Number 310-908-7771 Contact email RONBANUK@GMAIL.COM

Estimated annual pumping from New Well 15.4 acre-feet/year Well capacity 340 gallons/minute
 (5,018,105 GALLONS) 215 AFY (70,068,500 gallons) - AW

Describe the proposed use of the New Well (attach back up information as necessary) WATER PUMPED WILL SUPPORT THE DEVELOPMENT (NOT MAINTENANCE) OF THE "NORTH ROSAMOND SOLAR" FIELD IN KERN CO. SOUTH OF ROSAMOND BLVD.

Lot/Parcel Size 40 (acres) TOTAL WITH 10 ACRES COMMERCIAL

Proposed Structure(s) (e.g. home, office, barn, etc.) and size (square feet) THERE IS NO STRUCTURE ON THE 10-ACRE COMMERCIAL ZONE, EXCEPT WELLHEAD, PEDESTAL WITH ELECTRIC METER, AND A 75-KVA TRANSFORMER.

Number of full bathrooms 0 Number of half bathrooms 0

Is there (or will there be) a pool? NO Size of pool — (gallons)

Is there (or will there be) a spa/hot tub? NO Size of spa/hot tube — (gallons)

Area to contain irrigated landscaping 0 square-feet

Describe all proposed landscaping (type and how many) NONE

Area to contain irrigated crops or fruit trees 0 square-feet

Describe all proposed crops and fruit trees (type and how many) NONE

Please provide details on potential water use not mentioned above (e.g. farm animals, etc.)

NONE

Water Conservation Checklist NOTHING BELOW

Please indicate which of the following measures will be used:

- ☐ ENERGY STAR® water-conserving appliances installed, e.g., dishwasher, washing machine appl.
- ☐ Water-efficient showerhead using conventional aerator or venturi technology for flow rate < 2.5 gpm fixture
- ☐ Water-efficient sink faucets/aerators < 2.2 gallons/minute
- ☐ Ultra-low flow (< 1.6 gpm/flush) toilets installed
- ☐ Low-volume, non-spray irrigation system installed, e.g., drip irrigation, bubblers, drip emitters, soaker hose, stream-rotator spray heads
- ☐ Weather-based irrigation controllers, e.g., computer-based weather record
- ☐ Collect and use rainwater as permitted by local code
- ☐ Separate and re-use greywater as permitted by local code
- ☐ Composting or waterless toilet as permitted by local code
- ☐ Drought-resistant, native plants (site-appropriate)
- ☐ Xeriscape landscaping
- ☐ Evapotranspiration-based irrigation controller with a rain sensor
- ☐ Soil moisture sensor-based irrigation controller

Please provide additional details here THIS IS A COMMERCIAL SITE WITH NO
BUILDINGS, AGRICULTURE, OR ANIMALS.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. I certify that the information provided on this Water Conservation Practices for Single Family Home form is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I understand that it is my responsibility to notify the Antelope Valley Watermaster of any changes in any of the information provided on this form within 15 days.

Signature of Applicant Pon Banek Date 4 APRIL 2023

New Production Application (2023)

Antelope Valley Watermaster

Applicant: Ron Banuk

Date: 4 April 2023

This application is to supply water to McCarthy Building Companies, Inc. who are working to support the North Rosamond Solar Project in Kern County for the Clearway Energy Group (See www.clearwayenergygroup.com). The Preconstruction Director for McCarthy is Raymundo Marquez-Sanchez (480-243-4890 | RMarquezSanchez@McCarthy.com).

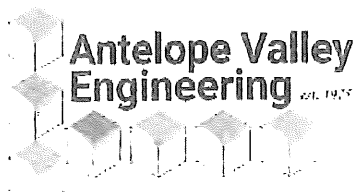
The project will begin in November of 2023 and end in December of 2024.

The project will draw up to ^{215 AFY (70,068,500 gallons) -AW} 5-million gallons in a bell-shaped curve, not using trucks, but by a 6-inch supply line to the distribution-site frac tanks.

Presently (4 April 2023), McCarthy is working out the Provisional Work Authorization (PWA2) which is scheduled to be executed at the end of April. The EPC (Engineering, Procurement, and Construction) agreement is scheduled for completion with Clearway in June/July. On-Site work will begin in November.

- Payment: \$1350.
- Written Specifics:
 - Proposed Quantity: 154 acre feet or 50,181,054 gallons
 - Draw Period: November 2023 to December 2024
 - Source of Supply: Subterranean Aquifer at APN 358-222-16.
 - Season of Use: Bell-shaped curve from start to finish.
 - Purpose of Use: Support water needs for McCarthy Building Companies, Inc. for the north Rosamond Solar Project. Contact Preconstruction Director Raymundo Marquez-Sanchez at 480-243-4890 or RMarquezSanchez@McCarthy.com.
 - Place of Use: See site map. In Kern Co south of Rosamond Blvd at 140th.
 - Manner of Delivery: 6-inch conduit from well to frac tanks at redistribution site
 - Other Information: Commercial well is currently in use.
- Map
 - Google map showing well-site to distribution-site.
- Well Information
 - Borehole: 12.25".
 - Casing:
 - 0-360-ft 10.75" OD, 0.25" wall steel, blank
 - 360-600-ft 10.75" OD, 0.25" wall steel, screen
 - Well Permit: WP13204 on 12-19-2011

- Well Log: Monthly data has been sent to Craig Parton. I drew water from this well in 2012, 2013, 2018, 2019, 2020, 2021, 2022, and 2023.
- Pump Specs and Test Results: 340 gal/min with zero head. Depth: 600-ft. Static Water Level: 367-ft. Estimated Yield: 40 GPM, constant rate, 36 hours, drawdown 0-ft.
- Water Meter Specs; Q3=630 GPM, Q1=15 GPM, P=150 psi, T=150°F.
- Confirmation of Entitlements and Permits: All permits have been obtained when Mortenson installed the well and pump (using Bryant Pump) in 2011.
- I have complied with all rules and regulations pertaining to the well.
- Water will continue to be dispatched from my well for industrial use. There are no facilities at the well head and no local water usage.
- Economic Impact:
- Physical Impact: See Todd Groundwater Water Level Hydrographs near Banuk parcel (USGS 42101, 31401, 20801, and 13201).
- California Licensed and Registered Professional Engineer.
 - See Antelope Valley Engineering by Barry S. Munz, PE, Vice President letter L22-170 (26 Aug 2022) for approval of a 50,000,000 gallon water draw. Payment per Invoice 15111 on 29 Aug 2022.



AUGUST 26, 2022

REF NO: L22-170

TODD GROUNDWATER
2490 MARINER SQUARE LOOP, SUITE 215
ALAMEDA, CA 94501

ATTN: KATHERINE WHITE

RE: EXISTING WATER WELL FOR COMMERCIAL USE
RON BANUK
APN 358-222-16-00
ROSAMOND, CA

DEAR MS. WHITE,

THE APPLICANT/OWNER IS USING AN EXISTING WATER WELL FOR COMMERCIAL USES (I.E. PROVIDING CONSTRUCTION WATER FOR NEW CONSTRUCTION). FROM THE WATER CONSERVATION PRACTICES FORM, THE ESTIMATED ANNUAL WATER USE WILL BE UP TO 50,000,000 GALLONS/YR OR ABOUT 153 AFY. WITH THE WATER MASTER ASSESSMENTS FOR REPLACEMENT WATER AND THIS BEING A TEMPORARY USE, THE POTENTIAL FOR THE EXISTING WATER PRODUCTION WELL TO CAUSE MATERIAL INJURY TO THE GROUND WATER BASIN WILL BE MITIGATED AND IS NEGLIGIBLE.

RESPECTFULLY,

A handwritten signature in dark ink, appearing to read "Barry S. Munz".

BARRY S. MUNZ, PE
VICE PRESIDENT



ANTELOPE VALLEY ENGINEERING, INC.

Invoice

TEL: 661-948-0805
 FAX: 661-206-7641
 129 WEST PONDERA STREET
 LANCASTER, CA 93534

DATE	INVOICE #
8/29/2022	15111

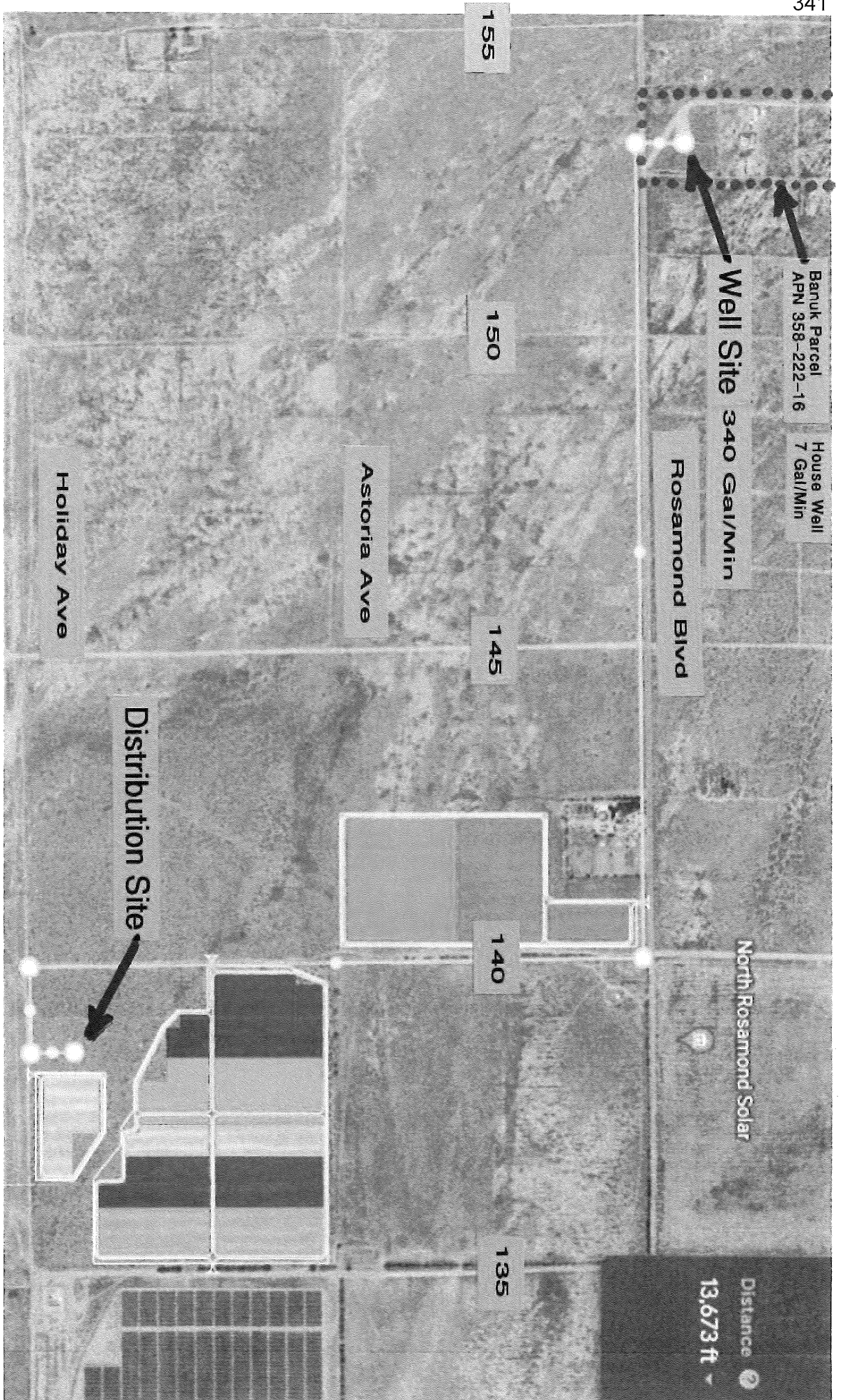
BILL TO
RON BANUK 15259 WEST ROSAMOND BLVD ROSAMOND, CA 93536

JOB DESCRIPTION
WELL LETTER

P.O. NO.	TERMS
20-099	Due on receipt

ORIGINAL

DESCRIPTION	QTY	RATE	AMOUNT
WELL LETTER		350.00	350.00
Paid \$350 ⁰⁰ CASH 8/30/22 <i>QJ</i>			
Total			\$350.00



RON BANUK
PATRICIA A. BANUK
15259 W ROSAMOND BLVD
ROSAMOND, CA 93560-7288

3395
11-35/1210 CA
90046

4 APRIL 2023
Date

Pay to the
Order of ANTELOPE VALLEY WATERMASTER \$ 1350 —
XXX THIRTEEN HUNDRED FIFTY AND ^{NO}/100 Dollars

Photo
Safe
Deposit
Details on back



BANK OF AMERICA 

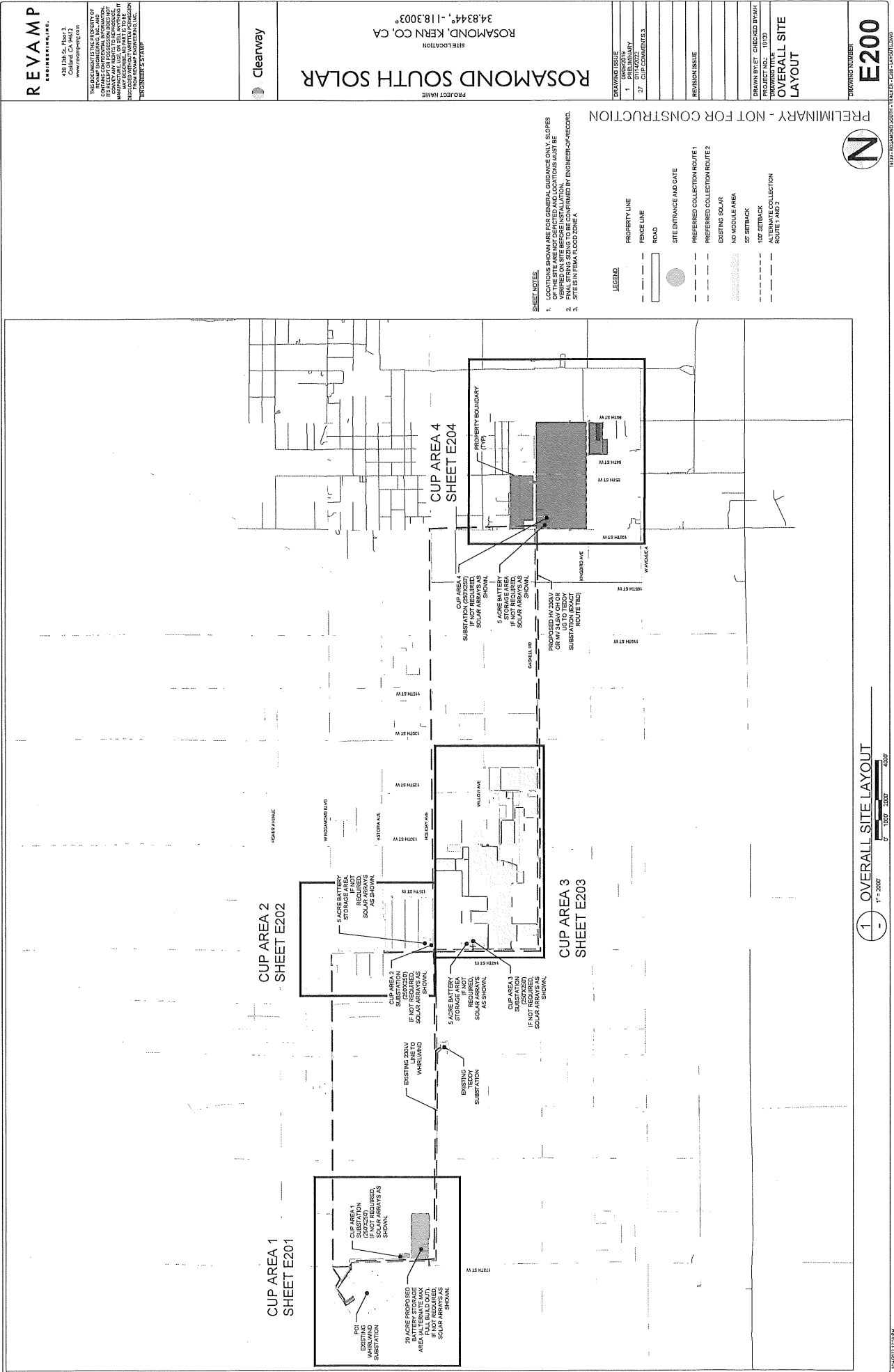
ACH R/T 121000358 358-222-16

For NEW PROD. APP

Pon Bank

MP

⑆ 621000358⑆ 002775448759⑆ 3395



June 15, 2021

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: APN# 358-222-16 (Banuk) New Production Application Findings

Watermaster Board:

Mr. Banuk is a member of the Small Pumper Class and was granted 215 AFY of New Production for use in 2020 and 2021 at the September 23, 2020 AVWM Board meeting. Produced water was used to support construction at local solar array installation projects. Mr. Banuk complied with application terms and conditions including meter installation and payment of Replacement Water Assessments. Mr. Banuk has now submitted this new application to continue using up to 215 AFY of New Production in 2022 and beyond for similar water uses.

This memorandum documents the Watermaster Engineer's assessment of Material Injury and review of the reasonableness of water use as required by the Judgment (§ 18.5.13). In brief, the assessment finds that the likelihood for Material Injury as defined by the Judgment is negligible, and the amount of requested water appears reasonable compared to previous similar projects. However, the specific solar project(s) associated with this application have not yet been identified. The Applicant states that future project(s) will be similar to the previous projects, and water will be delivered within four miles of the groundwater production.

Given the ongoing concerns expressed by the Advisory Committee and the Watermaster Board with respect to the amounts and use of new production approved in the Basin, the Watermaster Engineer requests guidance from the Advisory Committee, and the Board with regards to the reasonableness of water use for an as-yet unidentified project, even when the components of the proposed water use are generally known.

Details of the application and the Material Injury assessment are provided below.

BACKGROUND

Mr. Banuk's parcel is located in the West Antelope Subarea (**Figure 1**). He has two wells on his property: a domestic well that supplies water to his house and an industrial well that has been supplying construction water to nearby wind and solar farms since late 2018. His domestic well is classified as a Small Pumper well and can pump up to 3 AFY without incurring a Replacement Water Assessment obligation. It is not required to be metered.

Mr. Banuk's industrial well is metered and has reportedly supplied the following amounts of water for construction of nearby energy generating facilities:

- 2016 = 0 AF
- 2017 = 0 AF
- 2018 = 0.13 AF
- 2019 = 81.94 AF
- 2020 = 176.87 AF
- 2021 = 39.90 AF (as of mid-May)

According to the Well Completion Report filed with the Department of Water Resources (DWR), the Banuk industrial well was installed in late 2011 by Bryant Pump & Drilling to a depth of 600 feet. The well was completed with a 10.75-inch steel casing and is screened from 360 feet to 600 feet below ground surface (bgs). Upon completion, the well was pumped for 36 hours at a rate of 40 gallons per minute (gpm) with no reported drawdown. The capacity of the well is reported at 340 gpm in the application materials. The static depth to water at the time of the test was about 367 feet bgs. Water trucks or 6-inch tubing have delivered the water to nearby energy generating projects (wind and solar).

Mr. Banuk is again requesting up to 70,000,000 gallons per year (about 215 acre-feet per year (AFY)) to supply water to nearby solar projects for construction. At this point, Mr. Banuk does not have a specific project identified for future water delivery but anticipates that project water use will be similar to the previously approved projects and that the potential site will be within four miles of his parcel.

In 2020, Mr. Banuk supplied about 177 AF to a nearby solar field under construction and as of mid-May 2021, has supplied 40 AF to another nearby solar project under construction. Mr. Banuk specified that the distribution of monthly water use follows a bell-shaped curve with most of the water use occurring in the summer. For example, in 2019, about 75 percent of the total annual water use of 82 AF was used in April through August. Mr. Banuk is only supplying water for construction of energy generating projects and will not be providing water for facility maintenance or other uses after construction.

LOCAL GROUNDWATER CONDITIONS AND NEARBY WELLS

Figure 1 shows the location of the Banuk proposed production well in the West Antelope Subarea with respect to Spring 2020 groundwater contours. As shown, his parcel is located about 1.5 miles northeast and generally downgradient from the Willow Springs Water Bank and the AVEK Westside Banking Project. No regional groundwater level declines are apparent in the general vicinity of the Banuk well although local water level data are limited. Basin-wide maps indicate groundwater elevations of about 2,325 feet mean sea level (msl) at the site. With a local ground surface elevation estimated at 2,708 feet msl, the depth to water in the well is estimated to be about 383 feet below ground surface (bgs), approximately 16 feet lower than the static water level reported for this well at the time of drilling (2012).

Hydrographs from nearby wells with water levels measured by USGS are shown on **Figure 2**. The hydrograph for the closest well shows water level trends and fluctuations about 0.64 miles southwest of the Banuk well (USGS number ending in #2101, top middle of **Figure 2**). As indicated on the hydrograph, water levels have increased slightly between 2018 and Spring 2020 when the

Banuk well was pumping. The 30-foot increase in water levels between 2011 and 2013 likely reflects recharge at the Willow Springs Water Bank during this period. Another nearby well (#1401 - top right of **Figure 2**) shows stable water levels between 2018 and Spring 2019, then a slight decrease of about four feet between Spring 2019 and Spring 2020, when most of the pumping occurred from the Banuk well. This well is about 0.84 miles away from the Banuk well. Well #0801 (top hydrograph on the right side of **Figure 2**) shows a slight increasing trend in water levels since about 2013. Water level increases to the south of the Banuk well, such as those seen in Well #0801 and in Well #1601 (top left of **Figure 2**), are likely due to recharge at AVEK's Westside Water Bank. The Westside Bank location is shown on **Figure 1** and recharge at the bank over the last three years has been as follows: 2017=67,600 AF, 2018=12,559 AF, 2019=46,654 AF. A draft version of a figure prepared for the 2020 Annual Report depicts the change in groundwater elevations between Spring 2020 and Spring 2021 (**Figure 3**). As seen on **Figure 3**, the Banuk parcel is located in an area of slightly increasing groundwater elevations from Spring 2020 to Spring 2021.

The aerial photograph on **Figure 4** shows the area around Mr. Banuk's well including nearby residences that likely use groundwater and could potentially be impacted by local water level declines associated with production from Mr. Banuk's well. The figure indicates that the area is sparsely populated. The light-colored roads and circular areas to the northwest of Mr. Banuk's parcel are wind turbines. He supplied water for this construction in late 2018 and 2019.

The closest water user appears to be on APN 358-222-32, about 1,650 feet northeast of Mr. Banuk's industrial well (**Figure 4**). The property is owned by the Munoz R & O Revocable Trust. Robert Munoz is listed as a Small Pumper in the Judgment, but the Kern County Assessor Records indicate that Mr. Munoz and/or family members do not reside at this location. As per a Well Completion Report filed with DWR, a 475-foot deep well exists on this property. The well was drilled in 2007 and yields 6 gpm. Depth to first water was 320 feet and the static water level was 180 feet in July of 2007. The next closest groundwater users appear to be about one mile west of the Banuk property and a little more than one mile east of the Banuk property (**Figure 4**). Other users in the area include a small grouping of houses, solar farms, and some agricultural uses about two miles to the south.

MATERIAL INJURY ANALYSIS

Because Mr. Banuk will be required to pay a Replacement Water Assessment for production, there is no Material Injury associated with groundwater storage and sustainable yield. The new production is not within the historical or current areas of inelastic land subsidence. Further, there is no expected impact to local water quality or recharge associated with the Banuk well.

With regard to water levels, local hydrographs do not indicate significant water level declines in this area. In fact, due to local banking projects, water levels have risen slightly in recent monitoring events. To further examine the potential for Material Injury to local surrounding wells, we estimated potential water level declines associated with the proposed new production. Based on the property search and review of the current aerial photograph described above and shown on **Figure 4**, the closest well appears to be a 475-foot domestic well located on APN 358-222-32, about 1,650 feet to the northeast. The Material Injury analysis for declining water levels used this nearby well for a calculation of drawdown within the radius of influence of the Banuk well.

As reported in the application, most of the anticipated production of 215 AFY would likely occur between April and August. For the purposes of a conservative analysis, it was assumed that the entire 215 AF would be produced from the Banuk well at a continuous pumping rate of 320 gpm over the five-month period (153 days). Although local hydraulic aquifer properties in this area are not available, a transmissivity value of 30,000 gallons per day per foot (gpd/ft) was estimated based on reported hydraulic parameters in the USGS groundwater flow model (Layer 1). Aquifer thickness was estimated from the Well Completion Report. Based on these assumptions, drawdown after 153 days of pumping is estimated at about 2 feet at a distance of 1,650 feet from the Banuk well. This estimated groundwater decline is not judged to be sufficient to indicate Material Injury to the surrounding wells. In addition, no apparent Material Injury impacts such as water level declines have been brought to the attention of the Watermaster during production from this well to date.

SUMMARY AND CONSIDERATIONS

The Watermaster General Counsel is of the opinion that nothing in the Judgment or Rules and Regulations specifically prohibits a New Production Party from selling the water pumped on his property for use on a different parcel provided there is no associated Material Injury and that the water will be used for beneficial purposes. The amount of water requested appears reasonable for construction of large solar projects similar to those previously constructed in the Basin. Note that this water use is limited to use for construction of a solar array project only and does not involve any water use for long-term operation and maintenance of the facility. The Lahontan Basin Plan includes industrial water as a Beneficial Use for the Antelope Valley groundwater basin.

However, because the specific solar project has not yet been identified, and given the recent concern regarding additional new production in the Basin, we request input from the Advisory Committee and the Board regarding the reasonableness of water use related to this application.

Additional options for Board consideration include deferring approval of the application until the specific project use can be identified. The Board may also wish to consider another conditional approval of this application for up to 215 AFY for a limited time period, such as two or five years (2022 through 2023 or 2026). We strive to consider each application in a similar manner in accordance with the Judgment and Rules and Regulations and appreciate guidance on this matter.

Sincerely,

Katherine White

Katherine White

Phyllis A. Stanin

Phyllis Stanin

Todd Groundwater, Antelope Valley Watermaster Engineer