Michael Duane Davis, SBN 093678
Derek R. Hoffman, SBN 285784
GRESHAM SAVAGE NOLAN & TILDEN, PC
550 East Hospitality Lane, Suite 300
San Bernardino, CA 92408-4205
Telephone: (909) 890-4499
Facsimile: (909) 890-9877

Attorneys for La Cosepa, a non-profit Religious Corporation

SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF LOS ANGELES

Coordination Proceeding Special Title (Rule 1550(b)) **ANTELOPE VALLEY GROUNDWATER CASES** Including **Consolidated** Actions: **Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.** Superior Court of California, County of Los Angeles, Case No. BC 325 201 **Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.** Superior Court of California, County of Kern, Case No. S-1500-CV-254-348 **Wm. Bolthouse Farms, Inc. v. City of Lancaster** **Diamond Farming Co. v. City of Lancaster** **Diamond Farming Co. v. Palmdale Water Dist.** Superior Court of California, County of Riverside, consolidated actions, Case Nos. RIC 353 840, RIC 344 436, RIC 344 668 AND RELATED ACTIONS.	Judicial Council Coordination Proceeding No. 4408 Santa Clara Case No. 1-05-CV-049053 Assigned to the Honorable Jack Komar Department 17C **DECLARATION OF MICHAEL DUANE DAVIS IN SUPPORT OF LA COSEPA'S MOTION FOR LEAVE TO INTERVENE IN JUDGMENT** [Notice of Motion and Motion for Leave to Intervene; Declaration of Benito Rojas Barron; and [Proposed] Order filed concurrently] Date: August 9, 2018 Time: 9:00 a.m. Dept.: 1 - Appearance by CourtCall Judge: Hon. Jack Komar, Judge **[Hearing to be conducted by CourtCall]**

I, Michael Duane Davis, declare as follows:

1. I am an attorney at law duly admitted to practice before all the courts of the State of California, and am a principal shareholder in the law firm of Gresham Savage Nolan & Tilden, a Professional Corporation ("Gresham|Savage"). I give this Declaration in Support of

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 EAST HOSPITALITY LANE
THIRD FLOOR
SAN BERNARDINO, CA
92408
(909) 890-4499

La Cosepa, a non-profit Religious Corporation's ("La Cosepa") Motion for Leave to Intervene in Judgment ("Motion") filed concurrently herewith. If called and sworn as a witness, I could and would competently testify to the following facts, having personal knowledge thereof.

2. Gresham|Savage is counsel for La Cosepa for which this Motion is filed. La Cosepa seeks to intervene in and become a party to the December 23, 2015 Judgment and Physical Solution entered by this Court ("Judgment") in the above-encaptioned Antelope Valley Groundwater Adjudication ("Adjudication").

3. La Cosepa is the owner of approximately 148 acres of real property located at 39000 170th Street East in the unincorporated community of Lake Los Angeles, CA ("Property"). The Property bears Los Angeles County Assessor's Parcel Number 3075-003-008. Benito Rojas Barron is La Cosepa's President ("President Barron"), and Lucino Gopar is its Project Assistant ("Project Assistant Gopar").

4. I am informed and believe and thereon declare that, at the time of its acquisition by La Cosepa, the Property had an existing well with an annual production of approximately one (1) acre foot of water.

5. La Cosepa developed plans to develop the Property, in phases, with a project to be known as "Christ of the Desert" ("Project"). The Project is proposed to contain multiple buildings for a variety of religious purposes, chapels, living accommodations, an auditorium, classroom facilities, kitchens, restrooms, and related support facilities, which buildings will comprise approximately 77,600 square feet; to pave roadways and develop approximately 463 parking spaces; and to install low water consumptive landscaping on approximately 18,700 square feet of the Property, and leave approximately 14,200 square feet of the Property in its natural condition.

6. In preparation for this Project, Project Assistant Gopar contacted the Watermaster and Engineer, and began the process of applying for new groundwater production pursuant to the Judgment.

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 EAST HOSPITALITY LANE
THIRD FLOOR
SAN BERNARDINO, CA
92408
(909) 890-4499

7. On April 26, 2016, La Cosepa applied for and secured a Los Angeles County Well Permit [SR0097443] for a new production well on the Property. Attached as ***Exhibit "A"*** is a true and correct copy of the Well Permit Application for the Project.

8. La Cosepa secured a Geotechnical Report for the Property from AZ Geo Technics, Inc. on March 13, 2017. Attached as ***Exhibit "B"*** is a true and correct copy of the Geotechnical Report.

9. La Cosepa commenced construction of the well on April 10, 2017 and completed the well on April 14, 2017. Attached as ***Exhibit "C"*** is a true and correct copy of the Well Completion Report.

10. La Cosepa submitted a *Preliminary Draft Water Conservation Practices* [form] *for Single Family Home* to the Antelope Valley Watermaster on March 7, 2018. Attached as ***Exhibit "D"*** is a true and correct copy of the *Preliminary Draft Water Conservation Practices* [form] *for Single Family Home*.

11. La Cosepa also submitted a *Draft New Production Application* form to the Antelope Valley Watermaster on March 7, 2018. Attached as ***Exhibit "E"*** is a true and correct copy of the cover letter and *Draft New Production Application* form.

12. La Cosepa supplemented the application with square footage information on March 29, 2018. Attached as ***Exhibit "F"*** is a true and correct copy of the supplemental square footage information.

13. On May 14, 2018, La Cosepa's engineer, Antelope Valley Engineering, Inc., submitted an Estimate of Annual Water Demands for the Project that projected the demand at 14.16 acre feet. Attached as ***Exhibit "G"*** is a true and correct copy of Antelope Valley Engineering, Inc.'s Estimate of Annual Water Demands for the Project.

14. In order to ensure that this Project does not cause a material injury to the Basin, La Cosepa agreed to meter the well, pay replacement assessments, abandon the existing well on the Property, and abide by the terms of the Judgment applicable to the Property and the Project. La Cosepa's agreements are reflected on the transmittal letter to the *Draft New Production Application* that is attached to this Declaration as ***Exhibit "E."***

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 EAST HOSPITALITY LANE
THIRD FLOOR
SAN BERNARDINO, CA
92408
(909) 890-4499

15. Accordingly, the Engineer recommended that the Watermaster Board approve La Cosepa's Application on May 16, 2018. A true and correct copy of the Watermaster Engineer's findings and s recommendation is attached to this Declaration as ***Exhibit "H."***

16. The Watermaster Board approved La Cosepa's Application on May 23, 2018. The Watermaster's approval of the Application is set forth on the bottom of page 2 of the *Draft New Production Application* that is attached to this Declaration as ***Exhibit "E."***

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Dated this 18th day of July, 2018 at San Bernardino, CA.

Michael Duane Davis

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 EAST HOSPITALITY LANE
THIRD FLOOR
SAN BERNARDINO, CA
92408
(909) 890-4499

EXHIBIT A

LOS ANGELES COUNTY WELL PERMIT APPLICATION - PRODUCTION WELLS

APN# 3007-500-4010

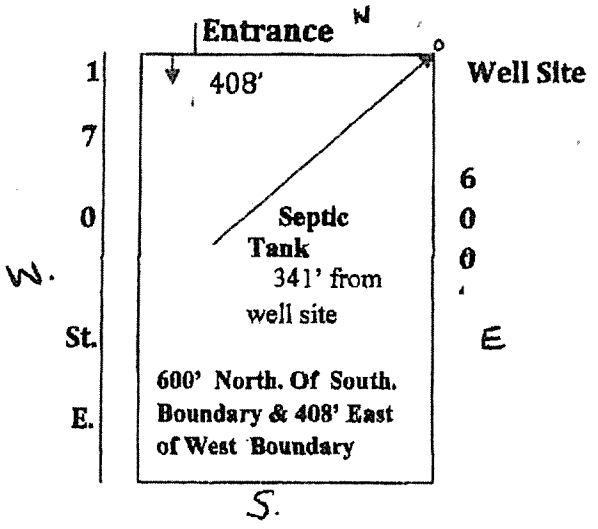
Well Location (Include distances from road and major cross streets)

39000 East 170th Street Lake Los Angeles , CA 93591

Projected Start Date 2/28/2017 Projected End Date 3/6/2017

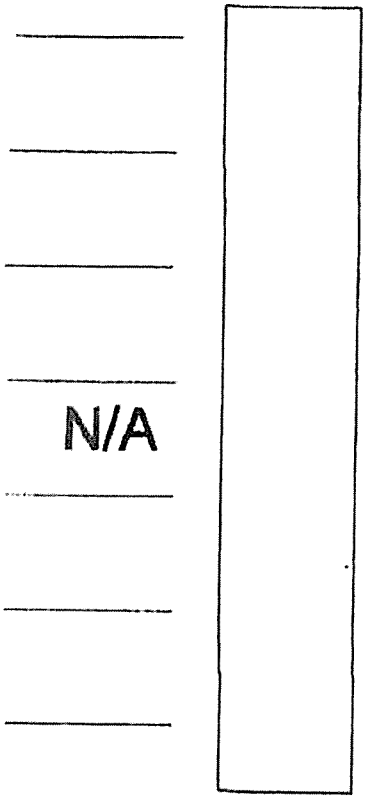
WELL LOCATION DIAGRAM

At site inspection, the well location must be staked and clearly marked with the owner's name.



Provide a scaled drawing (1 inch = 50 feet) with labels and dimensions, indicating property lines, private sewage disposal systems and other possible sources of contamination within 200 feet of the well site. Attach all supporting documents.

WELL CONSTRUCTION AND DECOMMISSION DIAGRAM



WORK PLAN DETAILS (Construction or Decommissioning)

Drill the borehole to approximately 400 with an 11 1/2" drill bit. When the borehole is dug to the depth desired, pull the drill pipe and again, starting from the surface, ream the entire depth of the borehole to remove any cuttings that might remain in the borehole. Then install the 400' of 5" casing but first perforate the bottom 100' with 1/16" perforations on three sides at 1' intervals. Then pour the #4 pea gravel stopping 50' from the surface. The top 50' is for pumping the 10.3 sack cement slurry seal. Place 50' of the tremie pipe and pump 50' of cement slurry through a 2" tremie pipe. When the 50' of cement slurry is completed, remove the tremie pipe. Then place the 10.3 sack cement slurry into the 7' x 7' x 6" form that was built for the pad. Reinforced steel will be installed at the bottom of the pad. Two centralizers will be placed at 20' and 40' intervals, starting from the top of the casing.

NOTES/COMMENTS (Department Use Only)

EXHIBIT B

AZ GEO TECHNICS, INC.
Geotechnical and Environmental Consultants

38713 9th Street East
Palmdale, Ca. 93550
Phone: (661) 273-3123 Fax: (661) 273-4245

GEOTECHNICAL REPORT

PROJECT NUMBER

GT-3474-S

SITE LOCATION

39000 170TH STREET EAST
IN THE CITY OF LAKE LOS ANGELES
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

LEGAL DESCRIPTION

APN: 3075-003-008

DATE

MARCH 13, 2017

PREPARED FOR

MISIONERAS SERVIDIRES DE LA PALABRA
C/O FRANSISCO LUA

A Z Geo Technics, Inc.

Geotechnical, Environmental and General Building Services

MARCH 13, 2017

HERMANAS MISIONERAS SERVIDIRES
DE LA PALABRA
C/O FRANSISCO LUA
LUA DRAFTING SERVICES
38414 DIVISION STREET
PALMDALE, CA 93550

SUBJECT: PRELIMINARY SOILS REPORT FOR A SITE LOCATED AT 39000 170TH STREET EAST, IN THE COMMUNITY OF LAKE LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA. APN: **3075-003-008** ("Site")

Dear Mr. Lua:

Pursuant to your authorization, AZ Geo Technics, Inc., referred to herein as **"Consultant"**, has visited the Site and performed a preliminary soils evaluation for **Hermanas Misioneras Servidires De La Palabra**, referred to herein as **"Client"**. The findings and recommendations contained in this "Report" are based upon nine (9) specific exploratory trenches, excavated to a maximum depth of fifteen (15') feet, and observations as noted within our described limitations. The materials immediately adjacent to or beneath those observed may have different characteristics and no representations are made as to the quality or extent of materials not observed.

Client, and/or Clients' contractor(s)/agents, are the responsible parties for the implementation of all recommendations during the life of the project. To the best of Consultants' knowledge, the evaluation covered in this limited study is in accordance with applicable recommendations. Any variances not approved in writing by Consultant would nullify this Report for any use. No other warranties are expressed or implied. Please note, this Report is valid for only one (1) year from the date hereof, subject to Consultants' review and approval prior to further use.

If you have any questions regarding this Report, please contact our office at your convenience. We appreciate this opportunity to be of service and will be available for future developments at your convenience.

Respectfully submitted for,

AZ GEO TECHNICS, INC.

Norik Bedassian, P.E.

NB:jr/GT-3474

38713 9th Street East • Palmdale, California 93550 • (661) 273-3123 • FAX (661) 273-4245

EXHIBIT C

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

File Original with DWR

Page 1 of 1

Owner's Well Number 1

Date Work Began 04/10/2017 Date Work Ended 4/14/2017

Local Permit Agency LOS ANGELES ENVIRONMENTAL HEALTH

Permit Number SR0097443 Permit Date 4/26/16

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0341673

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation ◉ Vertical ○ Horizontal ○ Angle Specify

Drilling Method ROTARY Drilling Fluid Bentonite mud

Depth from Surface Feet	to Feet	Description (Describe material, grain size, color, etc)
0	125	HARD GRAY CLAY
125	210	BLUE CLAY, 1/4" PEBBLES , & SAND
210	240	SAND, CLAY, & GRAVEL
240	290	SAND & GRAVEL

Total Depth of Boring 290 Feet

Total Depth of Completed Well 290 Feet

Well Owner

Name LA COSEPA

Mailing Address 3900 E. 170TH STREET

City LAKE LOS ANGELES State CA Zip 93591

Well Location

Address 170TH STREET EAST & AVE. P-8

City LAKE LOS ANGELES County Los Angeles

Latitude 34 Deg. 59 Min. 4556 Sec. N Longitude 117 Deg. 826 Min. 766 Sec. W

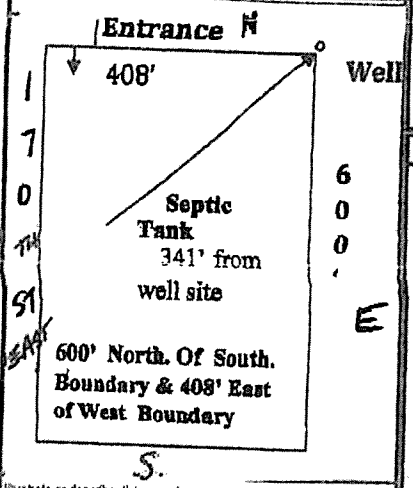
Datum Dec. Lat. Dec. Long.

APN Book 3075 Page 003 Parcel 008

Township Range Section

Location Sketch

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



Illustrate or describe distance of well from roads, buildings, fences, rivers, 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 110 (Feet below surface)

Depth to Static Water Level 110 (Feet) Date Measured 04/17/2017

Estimated Yield * 42 (GPM) Test Type Air Lift

Test Length 6.0 (Hours) Total Drawdown 0 (Feet)

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

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	290	11"	SCREEN	PVC SCH. 40	.25	5"	Bridge Slot	116.009

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	50	CEMENT	10.3 SK MIX
50	290	FILL	# 4 P 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

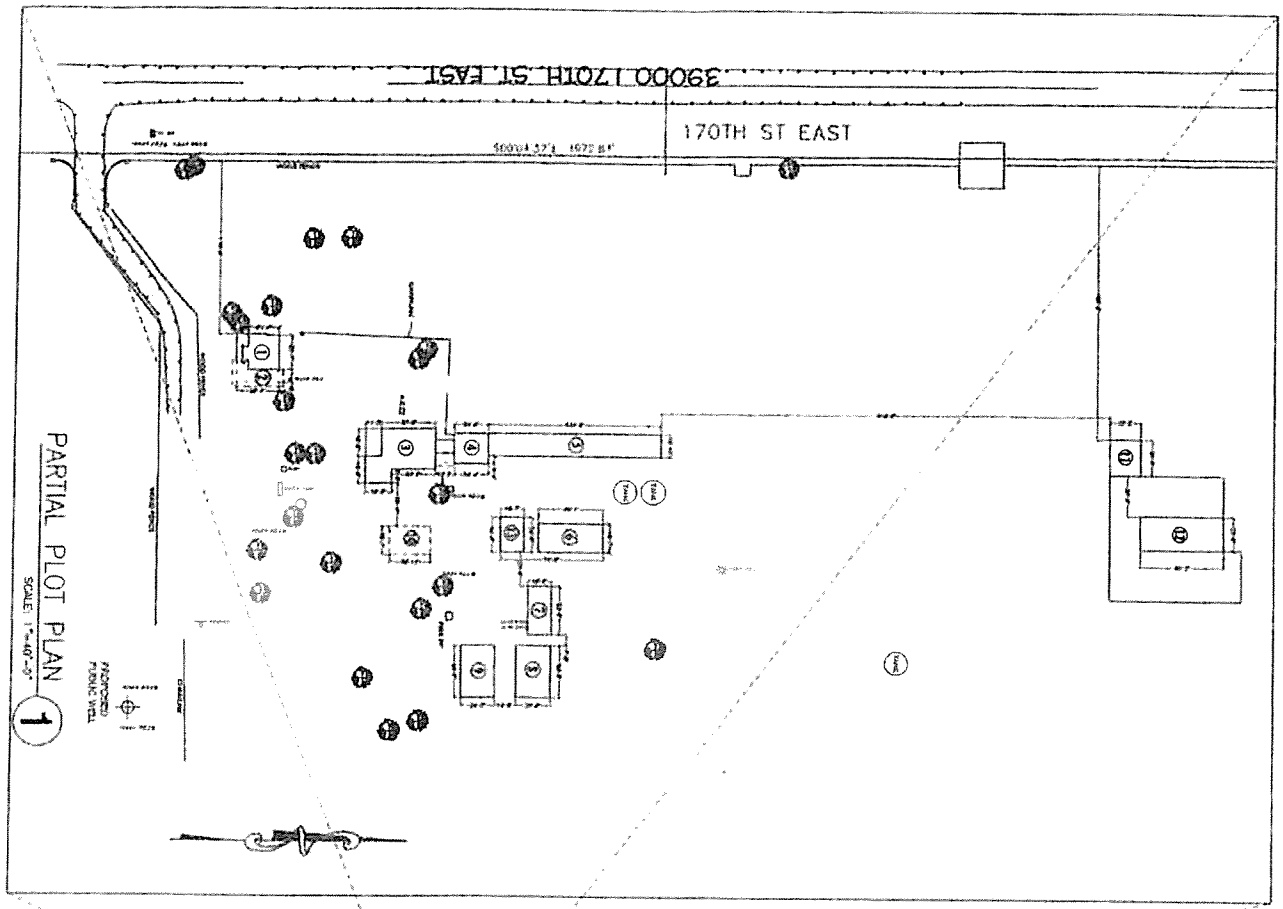
Name PARAMOUNT DRILLING & PUMP COMPANY
Person, Firm or Corporation

9031 E. AVE. E-8 LANCASTER CA 93535
Address City State Zip

Signed Kelly V. Rueda 5/8/2017 570254
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

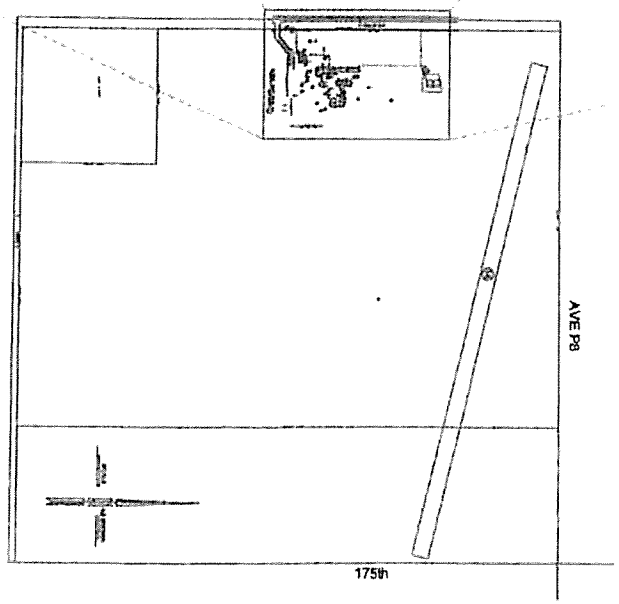
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM



PARTIAL PLOT PLAN

SCALE: 1"=40'-0"

1



PARTIAL PLOT PLAN

SCALE: N.T.S.

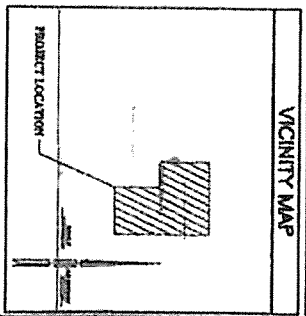
1

LEGEND

1	RESIDENCE	: 994 SQ.FT.
2	PATIO COVER	: 365 SQ.FT.
3	SHOP	: 1,152 SQ.FT.
4	GARAGE	: 594 SQ.FT.
5	BARN	: 1,998 SQ.FT.
6	STORAGE	: 833 SQ.FT.
7	BUILDING	: 594 SQ.FT.
8	MODEL BUILDING	: 864 SQ.FT.
9	MODEL BUILDING	: 864 SQ.FT.
10	CARPORT	: 594 SQ.FT.
11	CARPORT	: 540 SQ.FT.
12	WELL WATER MILL	: 1,458 SQ.FT.
13	BUILDING	: 378 SQ.FT.
14	LANDING STRIP	

NOTE: ALL BUILDINGS TO BE DEMOLISHED

VICINITY MAP



Christ of the Desert Center
H.M.S.P./LACOSEPA
39000 East 170th. St., Lake Los Angeles CA
(951) 368-8116,(323) 440-9760

SHL ENGINEERING
Civil Engineering Company
38414 DIVISION ST.
PALMDALE, CA. 93550
PH. 661-526-2595
FAX 661-250-6151

LUA DRAFTING SERVICES

SHEET TITLE: (E) PLOT PLAN VICINITY MAP

DATE: 02/17/2016

SHEET: T002

2 OF 19

EXHIBIT D

PRELIMINARY DRAFT Water Conservation Practices for Single Family Home

ANTELOPE VALLEY WATERMASTER

Date March 7, 2018 Proposed Well Site APN# 3075-003-008

Property Owner/Well Owner LA COSEPA

Property Owner/Well Owner Mailing Address 3900 E 170th Street Lake Los Angeles, CA 93591

Contact Phone Number 661-390-2524 Contact email rojasbenito@hotmail.com

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

Estimated annual pumping from New Well 23 Revised to 14.16 AFY acre-feet/year and well capacity 42 gallons/minute

Briefly describe how use was estimated (attach back up information as necessary) Current use by well on the property that will be abandoned once the new well is operational

Square footage of home 6,890.400

Lot/Parcel Size 148 Acres

Number of full bathrooms 43

Number of half-baths 75

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 _____

Area to contain irrigated landscaping Undetermined square-feet

Description and area if each landscaping type Undetermined

Will there be any fruit trees? Type and how many? Undetermined

Please provide details on potential water use other than small domestic household inside use and outside irrigation as described above. This could include water for farm animals, etc. _____

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 _____

_____

_____

_____

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 03/08/18

Instructions

Cells with pale blue background are for entering data

Results show in cells with tan background
Messages and warnings are displayed in cells with yellow background

1) Select city by clicking on blue cell and
choosing a city from the drop down menu ETo →
appears in the tan cell below the name of the city →

2) Enter square footage of overhead spray irrigated landscape area →

3) Enter square footage of drip irrigated landscape area →

4) Enter square footage of Special Landscape Area (SLA) →

5) MAWA results appear in the tan cells →

6) If you are considering effective precipitation (Eppt), enter total annual precipitation. →

7) Eppt →

8) For comparison, MAWA without effective precipitation is displayed below

MAWA without Eppt (Gallons) →

370,632.64

Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name	**Lancaster**	**Name of City**
ET_o of City from Appendix A	**71.10**	**ET_o (inches/year)**
	0	**Overhead Landscape Area (ft^2)**
	18684	**Drip Landscape Area (ft^2)**
	0	**SLA (ft^2)**
Total Landscape Area	**18,684**	
Results:		
$(ET_o) \times (0.62) \times [(0.45 \times LA) + (1.0 - 0.45) \times SLA)]$	-	Gallons
	-	Cubic Feet
	-	HCF
	-	Acre-feet
	-	Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Optional)		
Precipitation (Optional)		
ET_o of City from Appendix A	**71**	**ET_o (inches/year)**
Total Landscape Area	**18,684**	**LA (ft^2)**
Special Landscape Area	**0**	**SLA (ft^2)**
	4.5	**Total annual precipitation (inches/year)**
Enter Effective Precipitation	**1.13**	**Eppt (in/yr)(25% of total annual precipitation)**
Results:		
$MAWA = [(ET_o - Eppt) \times (0.62)] \times [(0.45 \times LA) + ((1.0 - 0.45) \times SLA)]$	**364,768**	**Gallons**
	48,762.58	**Cubic Feet**
	487.63	**HCF**
	1.12	**Acre-feet**
	0.36	**Millions of Gallons**

Water Usage: How it relates to our products

Author: Gary Jouas –
Water usage is as necessary to Evaporative Cooling as electricity is to refrigeration. When discussing water usage, opponents of Evaporative Coolers, (Proponents of Refrigeration) often equate "Usage" to "Waste". This could never be farther from the truth! Water is a resource like many others in that it is 100% renewable after use in an evaporative cooler. When the water is evaporated it leaves various solid compounds and elements such as calcium normally found in tap water in the cooler's reservoir. That reservoir water is systematically purged and is perfectly fine to be used in watering your grass, garden, or trees. After evaporation it is not irrevocably changed and returns to nature quickly and cleanly unlike other resources such as Petroleum or Natural Gas. That being said, let's discuss how water is used and managed in an evaporative cooler.

All evaporative coolers consume water via evaporation. This is what provides the cooling. The amount of water consumed by any given evaporative cooler can be expressed in a fairly simple equation. In order to begin understanding this concept, you must first understand a few relevant terms:

1. **Dry Bulb Temperature (Db)**: This is the ambient air temperature that surrounds you.
2. **Wet Bulb Temperature (Dw)**: This is lowest temperature the air can attain by evaporating water into the air.
3. **Wet Bulb Depression (ΔT):** This is the difference between the Dry Bulb and Wet Bulb temperature. (Db – Dw=ΔT)
4. **Efficiency (eff)**: This is a ratio of the actual air temperature drop across the media compared to the Wet Bulb Depression, expressed as a decimal percentage. If the Wet Bulb Depression is 40 degrees and the actual temperature drop measured across the cooling media is 30 degrees, the cooling efficiency of the media is 75% (30/40 = .75). This cooling efficiency is also known as the "Saturation Efficiency" because it refers to the amount of moisture that the media can evaporate into the air.
5. **Cubic Feet per Minute (CFM)**: A number to express the volume and velocity of air movement.
6. **Gallons per Hour (GPH)**: A number to express volume and speed of water evaporated.

Now that we understand the terms, let's examine the equation for the rate of evaporation.

$$\frac{CFM \cdot \Delta T \cdot eff}{3700} = \textit{Evaporation Rate in GPH}$$

The rate that water evaporates is affected by the speed the air is passing through the media, the actual wet bulb depression and the efficiency of the media itself. For illustration purposes we will choose the following conditions:

- Db=100°F
- Wb=60°F
- ΔT=40°F
- Eff=93% (.93)
- CFM=6,000

Use 45 Deg for Lake Los Angeles as mean summer temps are 105 deg.

$$\frac{6{,}000 \cdot 40 \cdot .93}{3700} = 25.66$$

This is the water that is actually evaporated but does not account for the "Purge Water" that is evacuated from the reservoir to maintain a clean media section. Please note that these values are in "Run Time Hours" not total hours in a day.

"Purge Water" is another necessary use for water in an evaporative cooler. As discussed earlier, when water is evaporated, it leaves behind the solid particles that do not evaporate. These particles include, but are not limited to Calcium and various salts. These deposits, if left to collect in the system, can cause scaling and corrosion hence must be evacuated from the system periodically. There are a few methods commonly used to satisfy this need and a few innovations only available from our company. These methods are as follows:

1. **Bleed-Off:** This method is one of the oldest and most common methods to reduce the buildup of minerals in the reservoirs. It is simply a capillary tube that allows a certain amount of water from the pump to be diverted from the media

distribution assembly directly down the stand pipe drain. The rate of water typically relieved through this tube is 12oz/minute of cooler run time. Or approximately 720oz (5.625 Gal)/hour of cooler run time. Although this is a widely accepted method, its flaw is that it is difficult for the average homeowner to regulate this rate based on the size of their cooler or the hardness of their water; hence it is the least economic from a water usage standpoint and can use more water than actually required.

2. **Scheduled System Dump:** This is another very common method used by most cooler manufacturers; however all "Scheduled Dump Systems" are NOT created equal and you will see a natural progression of innovations only available from our company.
    1. **Timer Method:** This method uses a timer to log the number of run time minutes and cycles a separate pump to run, after a predetermined run time, for a predetermined time period in an attempt to evacuate the reservoir. This method is used by many cooler & cooler parts manufacturers and is a more cost effective method than the "Bleed Off" method. It is more economical because it is not a constant bleed off and typically only evacuates the system once in an 8-hour period and then for only 7-minutes. At a flow rate of 4-Gal/minute, it only evacuates 28-Gal over an 8-hour period, OR 3.5-Gal/hour of cooler run time. This is a savings of 2.125-Gal as compared to the "Bleed-Off" method. This is an improvement, but still has some short comings. The problem with this method is in that although it is better than the "Bleed-Off" method, it still purges 28-Gal of water over a period of 8-hours of cooler run time.
    2. **Programmable Drain System:** This innovation, only available from our company, gives you the flexibility of selecting how often the system should purge and how long that purge should last. The frequency of how often the system should purge is based on the quality of the water supplied to the cooler. In areas with very hard water, the frequency of purging should be more frequent and less frequent where the water quality is better. Similarly, a small cooler may empty its reservoir in only 5-minutes where a larger cooler requires closer to 9-minutes to empty. Only our company gives you that flexibility with:
        1. **Custom Clean™ (BDC100):** This accessory turns your simple recirculation pump into a state of the art Programmable Drain System. Simply plug your current recirculation or "Primary" pump into the specially designed Custom Clean ™ plug. Plug a secondary pump into the other end of the Custom Clean ™ and hook its hose to the included hose adapter and to the cooler drain. This system will record the hours of cooler run time and cycle the secondary drain pump based on the frequency and run time selected by you. With this system you can select a clean frequency of 2, 4, 6, or 8-hours as well as select a drain run time of 5 or 9-minutes. This flexibility ensures that you are using water more wisely and purging your system only as required. An added bonus of this design is that you do NOT need two different types of pump! Two standard recirculating pumps perform both functions. This feature comes in handy in the event one pump fails and you are in a bind until you can get to the store to purchase a replacement. The primary pump is always the first to fail since it is used continually during the operation of the cooler while the secondary pump is only used during the purge cycle. Imagine a hot holiday party and your primary pump fails. Typically you would be without cooling until you replaced that pump. Since you have an identical pump as your secondary pump, you can simply switch pumps and get the cooler back on to keep the family gathering cool! The only drawback is you will not be able to drain the system until you replace that pump at least you remained cool until you could purchase a suitable replacement.
        2. **Programmable Drain Pump (patent pending):** This innovation released in 2014, takes all the features of the Custom Clean ™ and incorporates it into the body of the pump itself. It even has a "Continuous Run" mode in the event you need to swap it out with your primary pump as with the Custom Clean ™.
        3. **Programmable Drain Pump II (patent pending):** This latest innovation is truly an intelligent water management system! Not only can this product be set to predetermined frequencies and run times with all the features of the Custom Clean ™, but it can accurately measure the actual percentage of harmful minerals in the reservoir and purge based the system based on those values. No more guess work!

EXHIBIT E

New Production Application

LACOSEPA

1. The proposed development is on parcel 3075-003-008 as indicated on the New Production Application and the AZ GEO Technics, Inc., Geotechnical Report.

4. We will provide the Watermaster with copies of the well construction log and testing results once the well is completed. We will install a meter on the well in accordance with the Watermaster Rules and Regulations.

8. LACOSEPA will be paying replacement water assessment in order to have an equal amount of water imported and recharged into the Basin in order to have a de minimis economic impact.

9. There is currently a well on this property which will be abandoned once this new well is operational. The existing well currently serves a mobile home, two small buildings that serve as a chapel, and a building used as a meeting hall with a kitchen. The current amount of usage is 1-acre foot of water per year. This amount will be included in the estimated 14.16 AFY of water use at total project buildout. LACOSEPA will be paying replacement water assessment in order to have an equal amount of water imported and recharged into the Basin in order to have a de minimis economic impact.

10. The additional production will not cause a material injury to the basin since a replacement water assessment will be paid to have an equal amount of water imported and recharged into the Basin. I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. I understand that the Replacement Water Assessment for 2018 is $415 per acre-foot of water produced. We will install a meter on the well in accordance with the Watermaster Rules and Regulations.

11. We understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment and to pay the applicable Replacement Water Assessment for any New Production. We understand that the Replacement Water Assessment for 2018 is $415 per acre-foot of water produced.

Lucino Gopar
Project Assistant

DRAFT NEW PRODUCTION APPLICATION

ANTELOPE VALLEY WATERMASTER

Attach application fee of $750 for review and processing. Make check out to: Antelope Valley Watermaster

Please mail to: Antelope Valley Watermaster, P.O. Box 3025, Quartz Hill, California 93586 OR email to: info@avwatermaster.net

Date March 7, 2018 Proposed Well Site APN# 3075-003-008

Property Owner/Well Owner LA COSEPA

Property Owner/Well Owner Mailing Address 3900 E 170th Street Lake Los Angeles, CA 93591

Contact Phone Number 661-390-2524 Contact email rojasbenito@hotmail.com

New Well Latitude/Longitude (or x, y) _____ Antelope Valley Subarea: _____

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

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

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? upon completion

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. This payment is currently set at $750. Please attach a check to this application submittal. 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. Maps[1] identifying the location of the proposed New Production, including Basin Subarea.
4. Well information[2] 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.

SIGNATURES

I understand and agree to abide by the terms of the Antelope Valley Adjudication Judgment. 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.

Signature of Applicant Claudia P. Date 03/08/18

Watermaster Engineer Recommendation Phyllis D Stanin Date 5/23/18

Watermaster Board Decision Robert Parris Date 5/23/18

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.

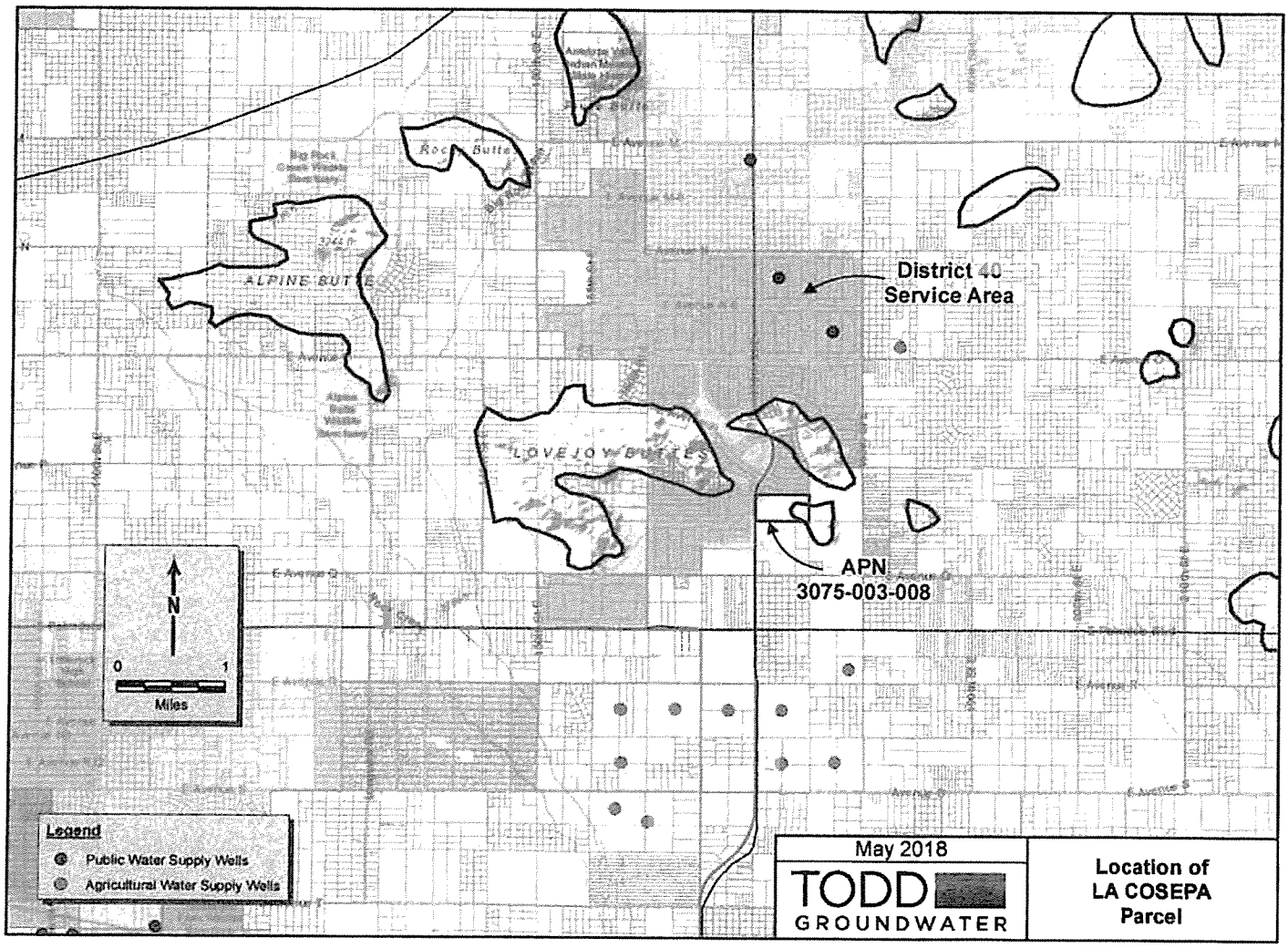

District 40
Service Area
APN
3075-003-008
ALPINE BUTTE
LOVEJOY BUTTES
N
0
1
Miles
Legend
Public Water Supply Wells
Agricultural Water Supply Wells
May 2018
TODD GROUNDWATER
Location of
LA COSEPA
Parcel

EXHIBIT F

Barry Munz

From: Francisco Lua <fcolua@gmail.com>
Sent: Thursday, March 29, 2018 4:21 PM
To: capitalcampaign@christofthedesertmsp.org
Subject: Areas

As per our conversation the total areas are as follow:

Total Development area: 435,188 sq.ft.
total building area: 56545 sq.ft.
total planters: 18684 sq.ft.
total area to be natural: 14,182 sq.ft.
total concrete sidewalks: 10,342 sq.ft.
total asphalt roads and parking : 335,435 sq.ft.

--

Francisco J. Lua
SHL Engineering
38414 Division St.
Palmdale, Ca. 93550
Ph. 661-917-5989

Barry Munz

From: Capital Campaign (christofthedesertmsp.org) <capitalcampaign@christofthedesertmsp.org>
Sent: Thursday, March 29, 2018 4:29 PM
To: Bmunz@antelopevalleyengineering.com
Subject: Areas
Attachments: Forwarded Message (3.30 KB)

Hello Barry,

I hope you are doing good. Listed below is the breakdown of the plans that you ask for. Thank you and we hope to hear soon from you.

As per our conversation the total areas are as follow:

Total Development area: 435,188 sq.ft.
total building area: 56545 sq.ft.
total planters: 18684 sq.ft. Landscaping to be irrigated
total area to be natural: 14,182 sq.ft.
total concrete sidewalks: 10,342 sq.ft.
total asphalt roads and parking : 335,435 sq.ft.

--

Francisco J. LuaSHL Engineering38414 Division St.Palmdale, Ca. 93550Ph. 661-917-5989

----- End forwarded message -----

EXHIBIT G

elope valley engineering inc.

MAY 14, 2018

REF. NO. L18-075

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

ATTN: KATE WHITE

RE: ESTIMATE OF ANNUAL WATER DEMANDS
CHRIST OF THE DESERT
39000 170TH ST EAST
LAKE LOS ANGELES, CA 93591

DEAR MS. WHITE,

CHRIST OF THE DESERT IS A PROPOSED DEVELOPMENT OF SEVERAL BUILDINGS ON AN EXISTING SITE IN LAKE LOS ANGELES. THE EXISTING BUILDINGS AND STRUCTURES ARE TO BE REMOVED TO ACCOMMODATE THE PROPOSED NEW DEVELOPMENT WHICH CONSISTS OF:

PHASE 1 – FORMATION HOUSE	17,800 S.F.	8 ROOMS	78 BEDS
DORMITORY ROOMS	7,330 S.F.	4 ROOMS	112 DESKS
CLASS ROOMS	2,880 S.F.		
KITCHEN / DINING ROOMS	2,429 S.F.		
TEACHER SLEEPING ROOMS	3,199 S.F.	8 ROOMS	8 BEDS
CHAPEL	1,962 S.F.		76 SEATS
PHASE 2 – RETREAT AREA/HOUSE	9,717 S.F.		
VISITOR SLEEPING ROOMS	6,221 S.F.	30 ROOMS	30 BEDS
MULTI-USE ROOM (W/KITCHEN)	1,748 S.F.		
VISITOR CLASS ROOMS	1,748 S.F.		
PHASE 3 – CHAPEL/CHURCH	11,191 S.F.		1,000 SEATS
PHASE 4 – AUDITORIUM	11,382 S.F.		1,000 SEATS
PARKING & LANDSCAPING	463 SPACES 18,684 S.F. LANDSCAPING		

WATER DEMANDS FOR THE PROPOSED DEVELOPMENT WILL CONSIST OF DOMESTIC USAGE, LANDSCAPING AND COOLING (IF APPLICABLE). IT IS DIFFICULT TO ESTIMATE THE DOMESTIC USAGE AS THERE IS VERY LITTLE, IF ANY, PUBLISHED OR HISTORICAL INFORMATION BASED ON DATA UTILIZING THE LOW FLOW FIXTURES REQUIRED BY THE CURRENT BUILDING CODES. AS SUCH, THIS ESTIMATE WILL USE VALUES WHICH SHOULD BE CONSIDERED TO BE CONSERVATIVE.

DOMESTIC DEMANDS

THERE ARE 4 DIFFERENT DOMESTIC DEMANDS TO BE CONSIDERED:

1. FORMATION HOUSE

    78 STUDENTS
    8 TEACHERS
    86 TOTAL

    THIS USE WOULD BE VERY SIMILAR TO A BOARDING SCHOOL. THE 2016 CALIFORNIA PLUMBING CODE (CPC) ESTIMATES WASTE FOR A BOARDING SCHOOL TO BE 100 GAL/DAY/PERSON, WHICH WOULD BE A CONSERVATIVE ESTIMATED AS MENTIONED ABOVE. FOR THIS TYPE OF USE, THERE WOULD BE VERY LITTLE CONSUMPTION WHICH WOULD NOT BECOME WASTE, SO IT IS ASSUMED THAT THE USAGE WOULD BE THE SAME. TO BE MORE ACCURATE, WE WILL ASSUME AN 90% OCCUPANCY RATE. THUS,

    86 PERSONS x 0.90 OCCUPANCY x 100 GAL/DAY/PERSON = 7,740 GAL/DAY

    7,740 GAL/DAY x 365 DAYS/YEAR = **2,825,100 GAL/YEAR**

2. RETREATS

    THE WATER DEMANDS FOR THE WEEKEND RETREATS WILL BE VERY SIMILAR TO A SUMMER OR SEASONAL CAMP. THE 2016 CPC ESTIMATES WASTE FOR A SUMMER CAMP TO BE 50 GAL/DAY/PERSON. AGAIN, WITH THIS TYPE OF USE, WATER DEMANDS WILL BE VERY SIMILAR TO WASTE FLOWS. A 90% OCCUPANCY RATE IS ALSO ASSUMED AGAIN. IT SHOULD BE NOTED THAT THE 30 VISITOR SLEEPING ROOMS HAVE DOUBLE OCCUPANT BEDS FOR THIS ESTIMATE, IT IS ASSUMED THAT 50% OF THE ROOMS WOULD HAVE TWO (2) OCCUPANTS. THUS,

    30 ROOMS x 1.5 OCCUPANTS x 0.90 OCCUPANCY x 50 GAL/DAY = 2,025 GAL/DAY

    BASED ON 50 RETREATS/YEAR (ASSUMED), THERE WILL BE A TOTAL OF 100 DAYS, SO

    100 DAYS x 2,025 = **202,500 GAL/YEAR**

3. CHAPEL/CHURCH

THE CHURCH BUILDING AS PROPOSED WILL SEAT 1000 OCCUPANTS. HOWEVER, IT SHOULD BE NOTED THAT THE FORMATION HOUSE OCCUPANTS AND VISITORS WILL ALSO BE IN ATTENDANCE AT THE CHURCH SERVICES. THERE WILL BE 2 SERVICES EACH WEEK, WITH THIS, THE WATER DEMAND ESTIMATE IS:

1000 SEATS – 86 FORMATION OCCUPANTS – 45 VISITORS = 869 SEATS FOR CONGREGATION

869 SEATS x 5 GAL/SEAT (2016 CPC) x 2 SERVICES/WEEK x 52 WEEKS = **451,880 GAL/YEAR**

4. AUDITORIUM

THE AUDITORIUM WILL BE USED FOR LARGER COMMUNITY RETREATS AND CONFERENCES. IT IS ANTICIPATED THAT THERE WOULD BE 2 CONFERENCES AND 4 RETREATS EACH YEAR THAT WOULD UTILIZE THIS FACILITY. THE CONFERENCES WOULD TYPICALLY BE A 3 DAY EVENT AND THE RETREATS WOULD BE 2 DAYS.

WATER USAGE FOR THIS TYPE OF USE WOULD BE SIMILAR TO A DAY CAMP (15 GAL/DAY/PERSON, 2016 CPC). WITH THIS, THE WATER USAGE WOULD BE:

CONFERENCE: 3 DAYS x 1000 PEOPLE x 15 GAL/DAY/PERSON x 2/YEAR = 90,000 GAL/YEAR
RETREATS: 2 DAYS x 1000 PEOPLE x 15 GAL/DAY/PERSON x 4/YEAR = 120,000 GAL/YEAR
SUBTOTAL: **210,000 GAL/YEAR**

FROM THE ABOVE, THE TOTAL DOMESTIC WATER DEMAND IS 3,689,480 GAL/YEAR (OR 11.32 AC-FT/YEAR).

LANDSCAPING

BASED ON THE PROPOSED SITE PLAN FOR THE PROJECT (SEE EMAIL DATED 3/29/18), THERE WILL ONLY BE 18,684 S.F. OF IRRIGATED LANDSCAPING AROUND THE BUILDINGS AND WITHIN THE PARKING LOT AREAS. USING THIS AREA IN THE STATES DEPARTMENTS OF WATER RESOURCE CALCULATION FOR MAXIMUM APPLIED WATER ALLOWANCE; THE RESULT IS 364,768 GALS/YEAR OR 1.12 AC-FT/YEAR. (SEE ATTACHED). THE WATER USAGE FOR LANDSCAPING WILL BE RESTRICTED TO BE NO MORE THAN THIS AMOUNT, **SO THIS 1.12 AL-FT/YEAR WILL BE USED FOR THE LANDSCAPING DEMAND.**

THE CITY OF LANCASTER WAS USED IN THE CALCULATION AS THE PROGRAM DOES NOT HAVE AN ETO VALUE FOR LAKE LOS ANGELES AND LANCASTER'S ETO VALUE OF 71.1 IS HIGHER THAN THAT OF PALMDALE, WHICH IS ALSO CLOSE TO THIS LOCATION.

COOLING

AS WITH THE DOMESTIC WATER DEMANDS, IT IS DIFFICULT TO ESTIMATE THE POTENTIAL WATER USAGE ASSOCIATED WITH COOLING AS THE BUILDINGS HAVE NOT YET BEEN ENGINEERED AND TITLE 24 ENERGY CALCULATIONS HAVE NOT BEEN PREPARED. AS SUCH, IT IS ANTICIPATED THAT REFRIGERATED AIR WOULD BE USED FOR COOLING. HOWEVER, IT IS POSSIBLE THAT A COOLING TOWER COULD BE USED. IT WOULD BE MORE LIKELY THAT EVAPORATIVE COOLING WOULD BE USED TO SUPPLEMENT THE REFRIGERATED AIR FOR THE FORMATION HOUSE AND THE RETREAT HOUSE. COOLING FOR THE CHURCH AND AUDITORIUM IS ANTICIPATED TO BE SOLELY REFRIGERATED AIR DUE TO THE SIZE AND USE OF THE FACILITIES.

THE EVAPORATIVE COOLING WOULD ONLY BE NEEDED 12 HOURS A DAY FOR 3 MONTHS AND PART TIME FOR AN ADDITIONAL 3 MONTHS, THIS WOULD BE EQUIVALENT TO 4.5 MONTHS OR 136 DAYS FROM MANUFACTURER DATA (ON-LINE CALCULATOR), A HIGH EFFICIENCY. EVAPORATIVE COOLER SHOULD HAVE 0.05 CFM/CF OF VOLUME FOR THE AREA TO BE COOLED. THUS,

(17,800 S.F. + 9,717 S.F.) x 10' CEILING HT. x 0.05 = 13,758 CFM NEEDED.

USING 15,000 CFM, THE EVAPORATED RATE IN GALS/HOUR WOULD BE

$$\frac{CFM \times \Delta T \times EFF}{8700} = \frac{15{,}000 \times 45^{\circ} \times 0.93}{8700} = 72.2 \text{ GPH}$$

WITH TIME OF USE BEING 136 DAYS x 12 HOURS/DAY = 1632 HOURS, THE WATER USAGE WOULD BE:

1632 HOURS x 72.2 GPH = **117,830 GALS/YEAR**

COOLER BLEED OFF SHOULD ALSO BE ACCOUNTED FOR. BLEED OFF IS ESTIMATED TO BE 5.6 GAL/HOUR OF COOLER RUN TIME FOR EVERY 6,000 CFM. THUS, THE TOTAL BLEED OFF USAGE WOULD BE

$\frac{15{,}000}{6{,}000}$ x 1,632 HOURS x 5.6 GAL/HOUR = **22,848 GAL/YEAR.**

THUS, THE ANNUAL WATER DEMAND FOR COOLING WOULD BE 140,678 GALS OR 0.43 AC-FT.

TOTAL ANNUAL WATER USAGE (FOR ULTIMATE BUILD-OUT)

FROM THE ABOVE WATER DEMANDS, THE TOTAL DEMAND FOR THIS DEVELOPMENT WILL BE:

ESTIMATED ANNUAL WATER DEMANDS:

DOMESTIC	11.32 AC-FT
LANDSCAPING	1.12 AC-FT
COOLING	0.43 AC-FT
10% CONTINGENCY USAGE	1.29 AC-FT
TOTAL	**14.16 AC-FT**

BASED ON THE ABOVE CONSERVATIVE ESTIMATES, THE TOTAL ANNUAL WATER USAGE FOR THIS BUILT OUT DEVELOPMENT IS ESTIMATED TO BE 14.16 AC-FT. AS A PHASED PROJECT, IT WILL BE YEARS BEFORE THIS PROJECT EVER USES THE AMOUNT OF WATER WE HAVE ESTIMATED. PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION.

RESPECTFULLY,

BARRY S. MUNZ, P.E.
VICE PRESIDENT

TABLE H 201.1(1)
CAPACITY OF SEPTIC TANKS[1, 2, 3, 4]

SINGLE-FAMILY DWELLINGS - NUMBER OF BEDROOMS	MULTIPLE DWELLING UNITS OR APARTMENTS - ONE BEDROOM EACH	OTHER USES: MAXIMUM FIXTURE UNITS SERVED PER TABLE 702.1	MINIMUM SEPTIC TANK CAPACITY (gallons)
1 or 2	–	15	750
3	–	20	1000
4	2 units	25	1200
5 or 6	3	33	1500
–	4	45	2000
–	5	55	2250
–	6	60	2500
–	7	70	2750
–	8	80	3000
–	9	90	3250
–	10	100	3500

For SI units: 1 gallon = 3.785 L

Notes:

[1] Extra bedroom, 150 gallons (568 L) each.

[2] Extra dwelling units over 10: 250 gallons (946 L) each.

[3] Extra fixture units over 100: 25 gallons (94.6 L) per fixture unit.

[4] Septic tank sizes in this table include sludge storage capacity and the connection of domestic food waste disposers without further volume increase.

TABLE H 201.1(2)
ESTIMATED WASTE/SEWAGE FLOW RATES[1, 2, 3]

TYPE OF OCCUPANCY	GALLONS PER DAY
1. Airports	15 per employee
	5 per passenger
2. Auto washers	Check with equipment manufacturer
3. Bowling alleys (snack bar only)	75 per lane
4. Camps:	
Campground with central comfort station	35 per person
Campground with flush toilets, no showers	25 per person
Day camps (no meals served) Large Conferences	15 per person
Summer and seasonal Retreats	50 per person
5. Churches (Sanctuary) Services	5 per seat
with kitchen waste	7 per seat
6. Dance halls	5 per person
7. Factories	
no showers	25 per employee
with showers	35 per employee
Cafeteria, add	5 per employee
8. Hospitals	250 per bed
kitchen waste only	25 per bed
laundry waste only	40 per bed
9. Hotels (no kitchen waste)	60 per bed (2 person)
10. Institutions (Resident)	75 per person
Nursing home	125 per person
Rest home	125 per person
11. Laundries, self-service	
(minimum 10 hours per day)	50 per wash cycle
Commercial	Per manufacturer's specifications
12. Motel	50 per bed space
with kitchen	60 per bed space

TABLE H 201.1(2) (continued)
ESTIMATED WASTE/SEWAGE FLOW RATES[1, 2, 3]

13. Offices	20 per employee
14. Parks, mobile homes	250 per space
Picnic parks (toilets only)	20 per parking space
Recreational vehicles	
without water hook-up	75 per space
with water and sewer hook-up	100 per space
15. Restaurants - cafeterias	20 per employee
toilet	7 per customer
kitchen waste	6 per meal
add for garbage disposal	1 per meal
add for cocktail lounge	2 per customer
kitchen waste - disposable service	2 per meal
16. Schools – Staff and office	20 per person
Elementary students	15 per person
Intermediate and high	20 per student
with gym and showers, add	5 per student
with cafeteria, add	3 per student
Boarding, total waste	100 per person
17. Service station, toilets	1000 for 1st bay
	500 for each additional bay
18. Stores	20 per employee
Public restrooms, add	1 per 10 square feet of floor space
19. Swimming pools, public	10 per person
20. Theaters, auditoriums	5 per seat
Drive-in	10 per space

Formation House

For SI units: 1 square foot = 0.0929 m^2, 1 gallon per day = 3.785 L/day

Notes:

[1] Sewage disposal systems sized using the estimated waste/sewage flow rates shall be calculated as follows:

(a) Waste/sewage flow, up to 1500 gallons per day (5678 L/day)

Flow x 1.5 = septic tank size

(b) Waste/sewage flow, over 1500 gallons per day (5678 L/day)

Flow x 0.75 + 1125 = septic tank size

(c) Secondary system shall be sized for total flow per 24 hours.

[2] See Section H 201.1.

[3] Because of the many variables encountered, it is not possible to set absolute values for waste/sewage flow rates for all situations. The designer should evaluate each situation and, where figures in this table need modification, they should be made with the concurrence of the Authority Having Jurisdiction.

TABLE H 201.1(3)
DESIGN CRITERIA OF FIVE TYPICAL SOILS

TYPE OF SOIL	REQUIRED SQUARE FEET OF LEACHING AREA PER 100 GALLONS	MAXIMUM ABSORPTION CAPACITY IN GALLONS PER SQUARE FEET OF LEACHING AREA FOR A 24 HOUR PERIOD
Coarse sand or gravel	20	5.0
Fine sand	25	4.0
Sandy loam or sandy clay	40	2.5
Clay with considerable sand or gravel	90	1.1
Clay with small amount of sand or gravel	120	0.8

For SI units: 1 square foot = 0.0929 m^2, 1 gallon = 3.785 L, 1 gallon per square foot = 40.7 L/m^2

EXHIBIT H

TODD GROUNDWATER

May 16, 2018

Robert Parris, Chair
Antelope Valley Watermaster Board

Re: APN# 3075-003-008 (LA COSEPA) New Production Application Findings

Watermaster Board:

Todd Groundwater has determined that the above-mentioned application for New Production in the South East Subarea for use at a church complex is complete. The applicant has provided an Estimate of Annual Water Demands (Munz, May 14, 2018) in which the water demand of the project was calculated to be 14.16 acre-feet per year at buildout. The information provided indicates that the New Production will be used in a manner consistent with California best water management practices.

The project area is over one mile away from the closest public water supply well or agricultural well that the Watermaster Engineer knows about. Given this information and the obligation to pay a Replacement Water Assessment, Todd Groundwater finds that the potential for Material Injury as defined in the Judgment is negligible.

Sincerely,

Katherine White

Katherine White, P.E.
Todd Groundwater, Antelope Valley Watermaster Engineer

2490 Mariner Square Loop, Suite 215 | Alameda, CA 94501 |510 747 6920 | toddgroundwater.com

PROOF OF SERVICE

STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO

Re: *ANTELOPE VALLEY GROUNDWATER CASES*
Los Angeles County Superior Court Judicial Council Coordinated
Proceedings No. 4408; Santa Clara County Superior Court Case No. 1-05-CV-049053

I am employed in the County of San Bernardino, State of California. I am over the age of 18 years and not a party to the within action; my business address is: 550 E. Hospitality Lane, Suite 300, San Bernardino, CA 92408-4205. On July 18, 2018 **DECLARATION OF MICHAEL DUANE DAVIS IN SUPPORT OF MOTION FOR LEAVE TO INTERVENE IN JUDGMENT,** I served copies of the within documents described as on the interested parties in this action in a sealed envelope addressed as follows:

See attached Service List

☒ **BY MAIL** - I am "readily familiar" with the firm's practice of collecting and processing correspondence for mailing. Under that practice, it would be deposited with the United States Postal Service on the same day in the ordinary course of business, with postage thereon fully prepaid at San Bernardino, California. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

☐ **BY PERSONAL SERVICE** - I caused such envelope to be delivered by hand to the offices of the addressee pursuant to C.C.P. § 1011.

☐ **BY EXPRESS MAIL/OVERNIGHT DELIVERY** - I caused such envelope to be delivered by hand to the office of the addressee via overnight delivery pursuant to C.C.P. § 1013(c), with delivery fees fully prepaid or provided for.

☐ **BY FACSIMILE** - I caused such document to be delivered to the office of the addressee via facsimile machine pursuant to C.C.P. § 1013(e). Said document was transmitted to the facsimile number of the office of the addressee from the office of Gresham Savage Nolan & Tilden, in San Bernardino, California, on the date set forth above. The facsimile machine I used complied with California Rules *of Court*, Rule 2003(3) and no error was reported by the machine. Pursuant to California *Rules of Court*, Rule 2009(i), I caused the machine to print a record of the transmittal, a copy of which is attached to this declaration.

☐ **BY ELECTRONIC/EMAIL** - I caused such document to be delivered to the office of the addressee via electronic e-mail pursuant to C.C.P. §1013(a). Said document was transmitted to the email address of that office which is listed on the above Service List. Said document was served electronically and the transmission was reported as complete and without error.

☐ **FEDERAL** - I am employed in the office of a member of the bar of this court at whose direction the service was made.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed on July 18, 2018, at San Bernardino, California.

Dina Snider

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 E. HOSPITALITY LANE, STE. 300
SAN BERNARDINO, CA 92408

SERVICE LIST

Re: *ANTELOPE VALLEY GROUNDWATER CASES*
Los Angeles County Superior Court Judicial Council Coordinated Proceedings No. 4408; Santa Clara County Superior Court Case No. 1-05-CV-049053

Benito Rojas Barron, President Lucino Gopar, Project Assistant LA COSEPA 17938 East Foothill Blvd Fontana, CA 92335	

PROOF OF SERVICE
STATE OF CALIFORNIA, COUNTY OF SAN BERNARDINO

Re: *ANTELOPE VALLEY GROUNDWATER CASES*
Los Angeles County Superior Court Judicial Council Coordinated Proceedings No. 4408; Santa Clara County Superior Court Case No. 1-05-CV-049053

I am employed in the County of San Bernardino, State of California. I am over the age of 18 years and not a party to the within action; my business address is: 550 East Hospitality Lane, Suite 300, San Bernardino, CA 92408-4205.

On July 18, 2018, I served the foregoing document(s) described **DECLARATION OF MICHAEL DUANE DAVIS IN SUPPORT OF LA COSEPA'S MOTION FOR LEAVE TO INTERVENE IN JUDGMENT** on the interested parties in this action in the following manner:

(X) **BY ELECTRONIC SERVICE** – I caused such document(s) listed above to be electronically served, via One Legal, to all parties appearing on the Santa Clara County Superior Court website, http://www.scefiling.org, in the action of the Antelope Valley Groundwater Cases; proof of electronic-filing through One Legal is then printed and maintained with the original documents in our office. Electronic service is complete at the time of transmission. My electronic notification email address is dina.snider@greshamsavage.com,

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on July 18, 2018 at San Bernardino, California.

DINA M. SNIDER

GRESHAM | SAVAGE
ATTORNEYS AT LAW
550 EAST HOSPITALITY LANE
THIRD FLOOR
SAN BERNARDINO, CA
92408
(909) 890-4499