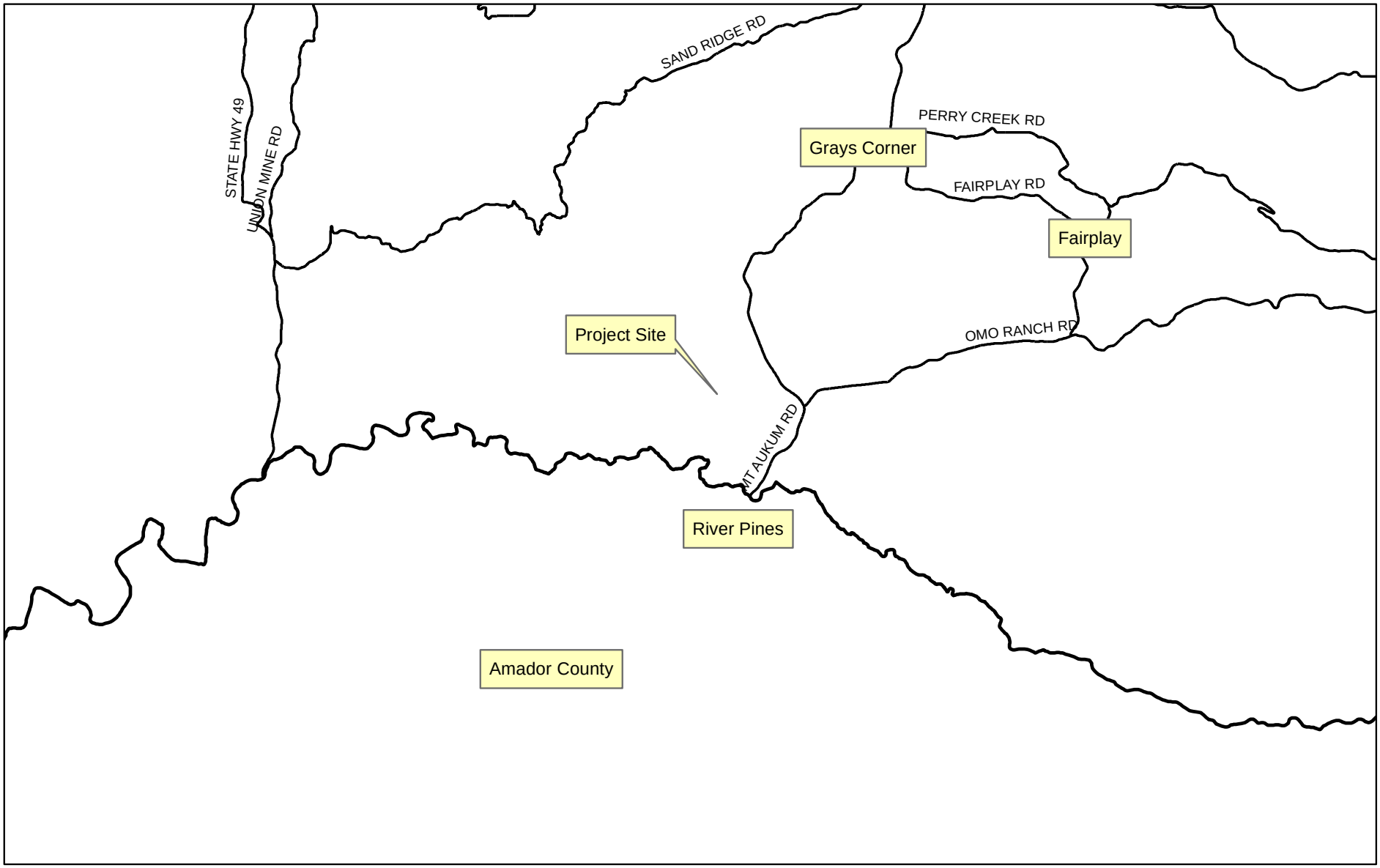


CCUP21-0004/Single Source Solutions
Vicinity Map
Exhibit A

N

0 1.25 2.5 5 Mile

CCUP21-0004/Single Source Solutions
Aerial Map
Exhibit B

N

0 0.075 0.15 0.3 Miles

POR. SECS. 3,10&11., T.8N., R.11E., M.D.M.
RIVER PINES ESTATES UNIT 3
H-18

Tax Area Code **46:71**

1"= 400'

P.72

P.08

P.69

P.70

P.08

P.08

N1/4 COR. SEC. 10

CTR. SEC. 10

D'AGOSTINI DRIVE

RABBIT RIDGE

SQUIRREL HOLLOW

NORTH

(23) 10.29 A

(22) 12.95 A

(21) 29.56 A

(17) 46.53 A

(16) 19.49 A

(15) 12.91 A

(14) 12.89 A

(13) 10.23 A

(12) 12.44 A

(11) 10.29 A

(20) 11.47 A

(19) 13.59 A

(18) 10.00 A

(10) 11.57 A

(9) 10.12 A

(8) 10.00 A

(7) 10.00 A

(6) 10.00 A

(5) 11.06 A

(4) 10.10 A

(3) 10.06 A

(2) 12.46 A

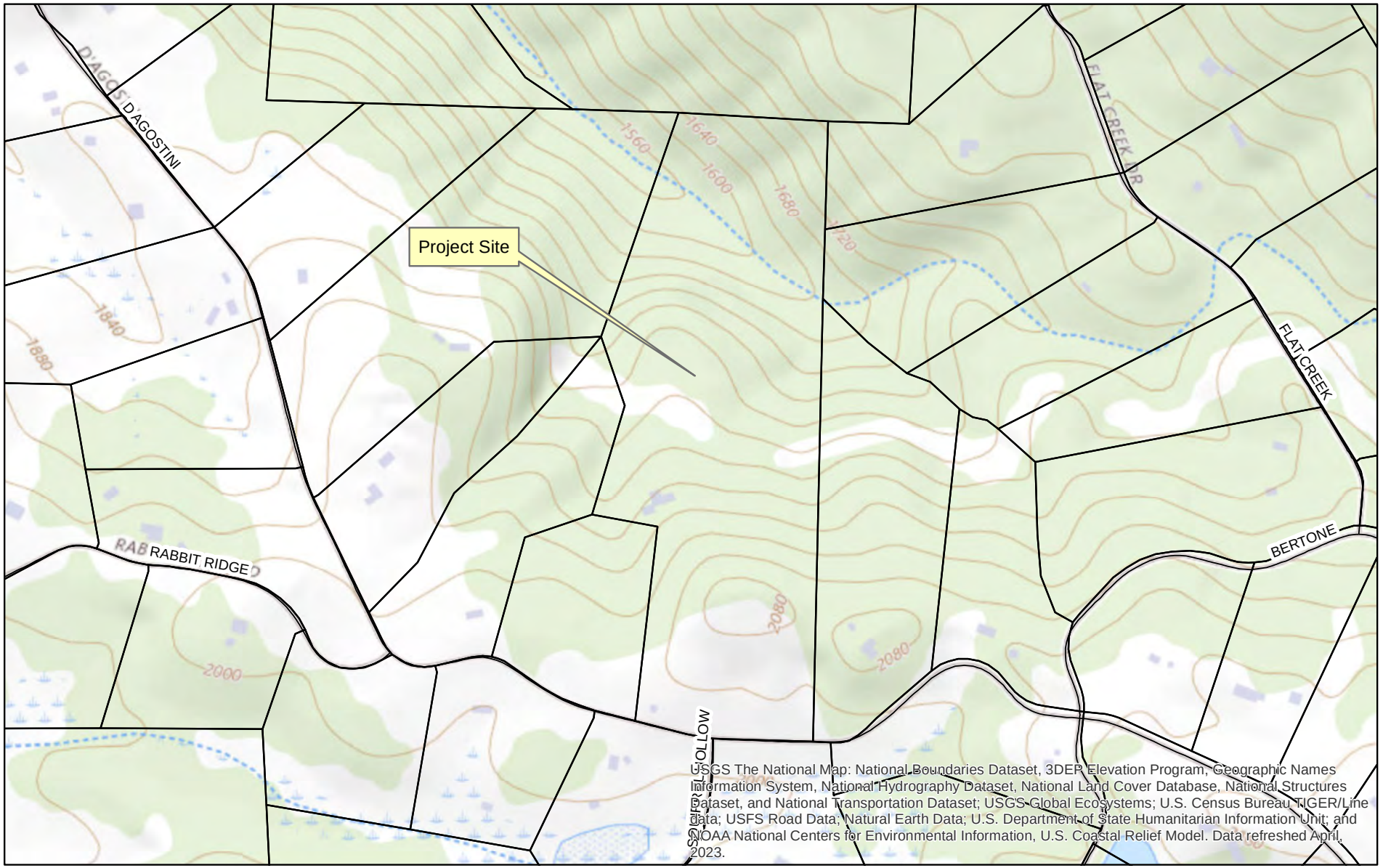
(1) 10.44 A

74 65 73 64 72 63 71 61 62 60 70 59 69 58 57 56 68 55 67 54 53 51

773.36' N 78°17'56" E
815.13' N 54°37'55" E
S 04°01'02" W 499.29'
713.10'
N 38°34'24" E 609.82'
2375.51'
450.00' 725.51' 600.00' N 87°38'47" W 600.00'
815.92' S 51°03'42" W
809.20' 822.00' N 00°57'56" E 1166.80' S 75°00'00" W
1492.22' N 49°34'46" E
31.76' 195.39' 552.76'
998.47' S 19°53'19" W
N 02°21'13" E 765.45'
270.82' 214.37' 189.44'
187.20' 156.02' S 00°53'39" W 142.61'
507.71' S 88°18'06" E
862.43' N 71°43'27" E
452.45' N 88°09'33" E 269.53'
983.04' N 49°08'38" E
280.12'
350.21' S 48°10'48" W
485.83'
674.09' 361.02' S 09°23'21" E 313.07'
891.74' S 89°18'24" E
336.84' S 00°25'53" W 433.56'
509.78' N 63°20'04" W
278.66'
294.33'
329.59' S 28°17'40" W
531.84' N 24°57'14" W 388.83'
302.66'
331.06' N 16°33'13" E
832.38' S 07°12'32" W
1881.75' N 00°44'02" E
S 06°27'32" W 1108.83'
519.48' N 00°43'13" E
701.17' S 17°05'31" W
421.18' S 18°20'33" W
156.22' 184.57' 181.32' N 75°11'W 29.22' 380.94' 456.00' 300.00'
1015.62' 627.47' N 89°05'23" W 388.15' 313.08'
679.25' N 10°38'09" E
628.55' S 26°37'29" W
321.70' N 01°35'37" W 602.93' 1114.04' N 79°20'W 511.11'
420.70' 215.98' N 82°11'35" E 144.25' 230.47'
982.75' S 66°16'31" E
N 23°01'10" W 715.04'
949.88' S 75°17'32" E
1182.73' 440.33' 167.54' S 89°52'07" W 869.81' N 08°59'59" E 365.07' S 89°18'14" W 616.73' 1114.28' 487.30' S 89°42'46" E 626.98' N 08°00'00" W 329.75'
869.05' S 48°02'03" E

CCUP21-0004/Single Source Solutions
Assessor's Parcel Map - Exhibit C

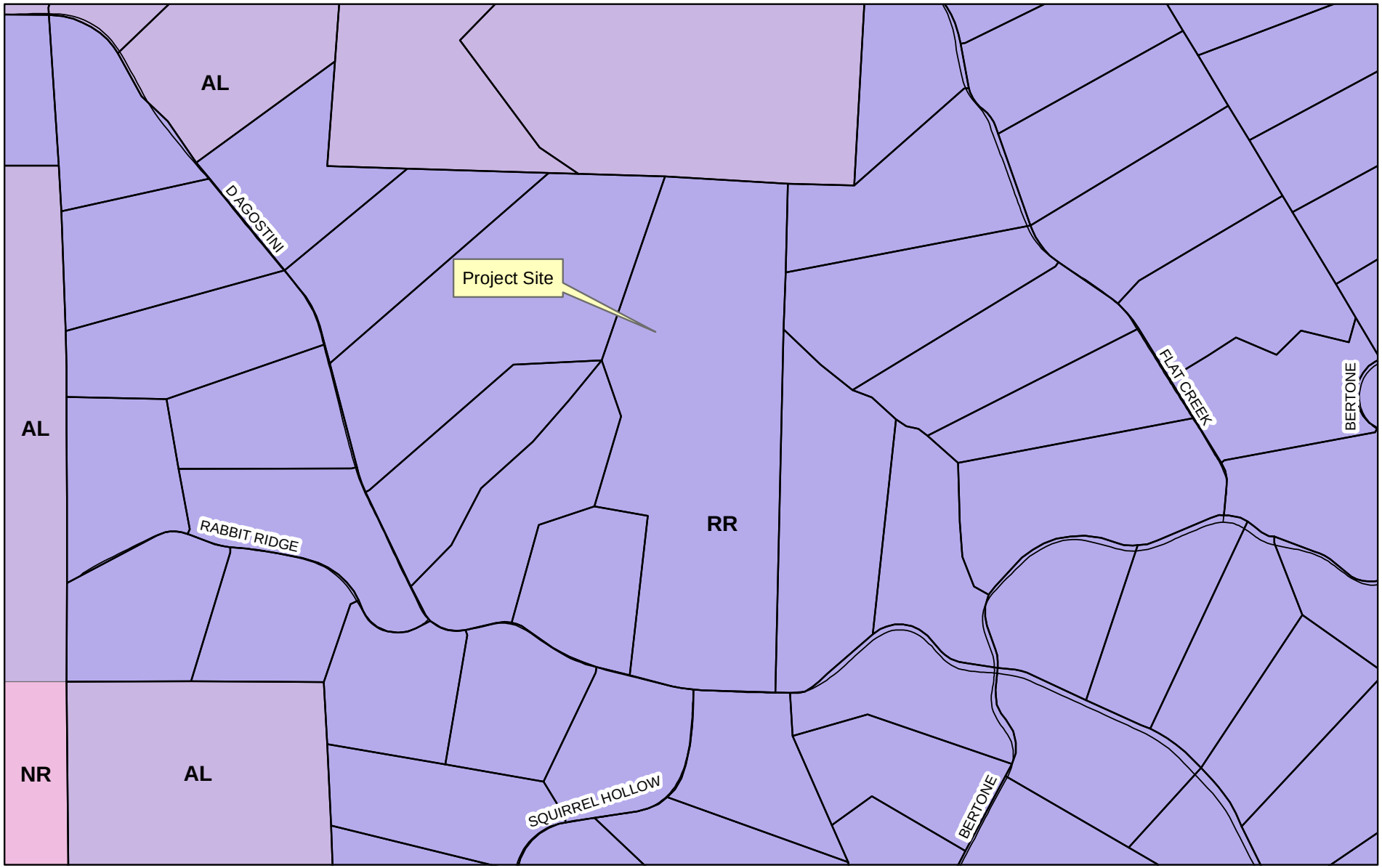
Assessor's Map Bk. 46 — Pg. 71
County of El Dorado, California



CCUP21-0004/Single Source Solutions
Topography Map
Exhibit D

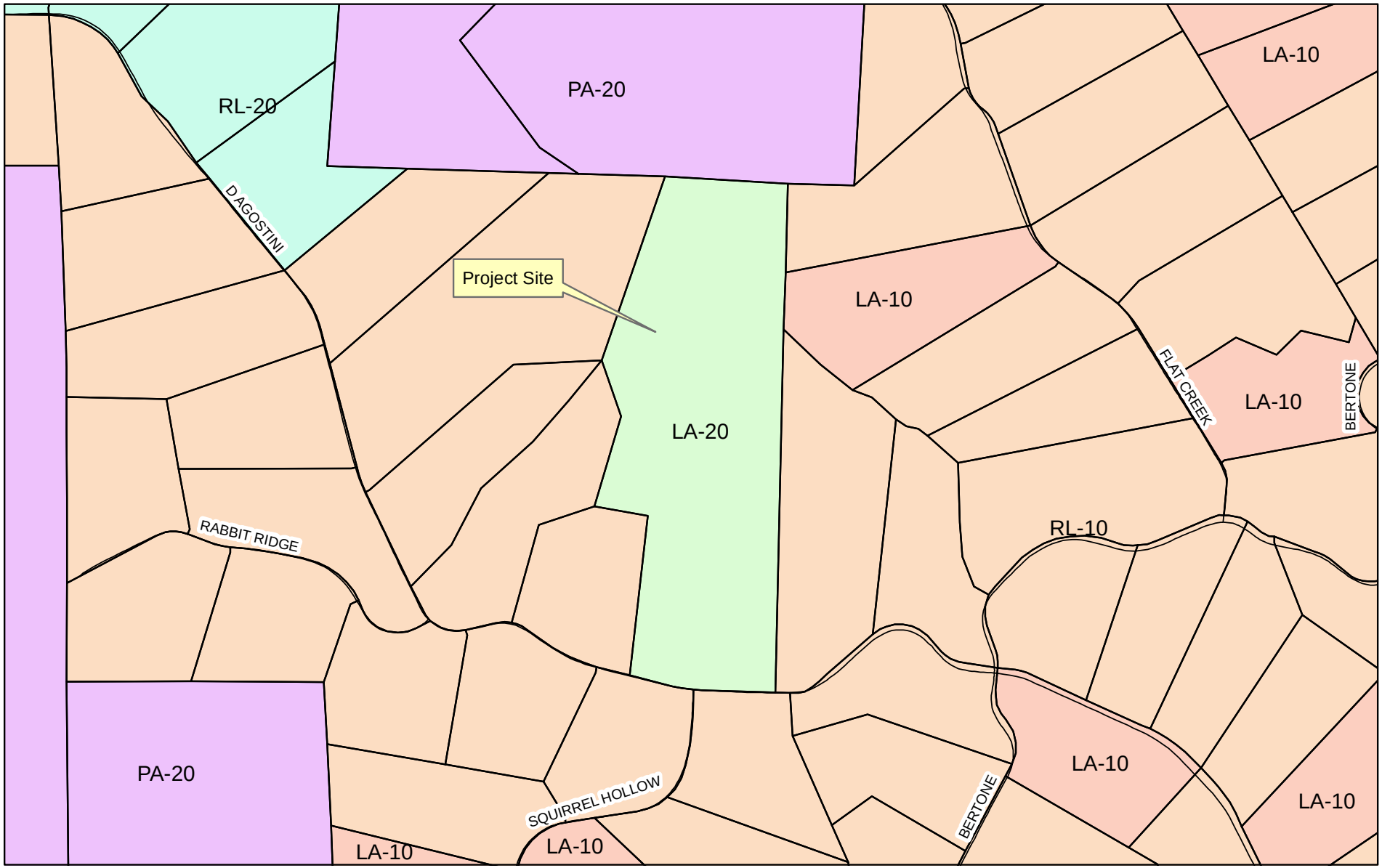
N

0 0.075 0.15 0.3 Miles



CCUP21-0004/Single Source Solutions
General Plan Land Use Designation Map
Exhibit E

0 0.1 0.2 0.4 Mil



CCUP21-0004/Single Source Solutions
Zoning Designation Map
Exhibit F

0 0.1 0.2 0.4 Mil

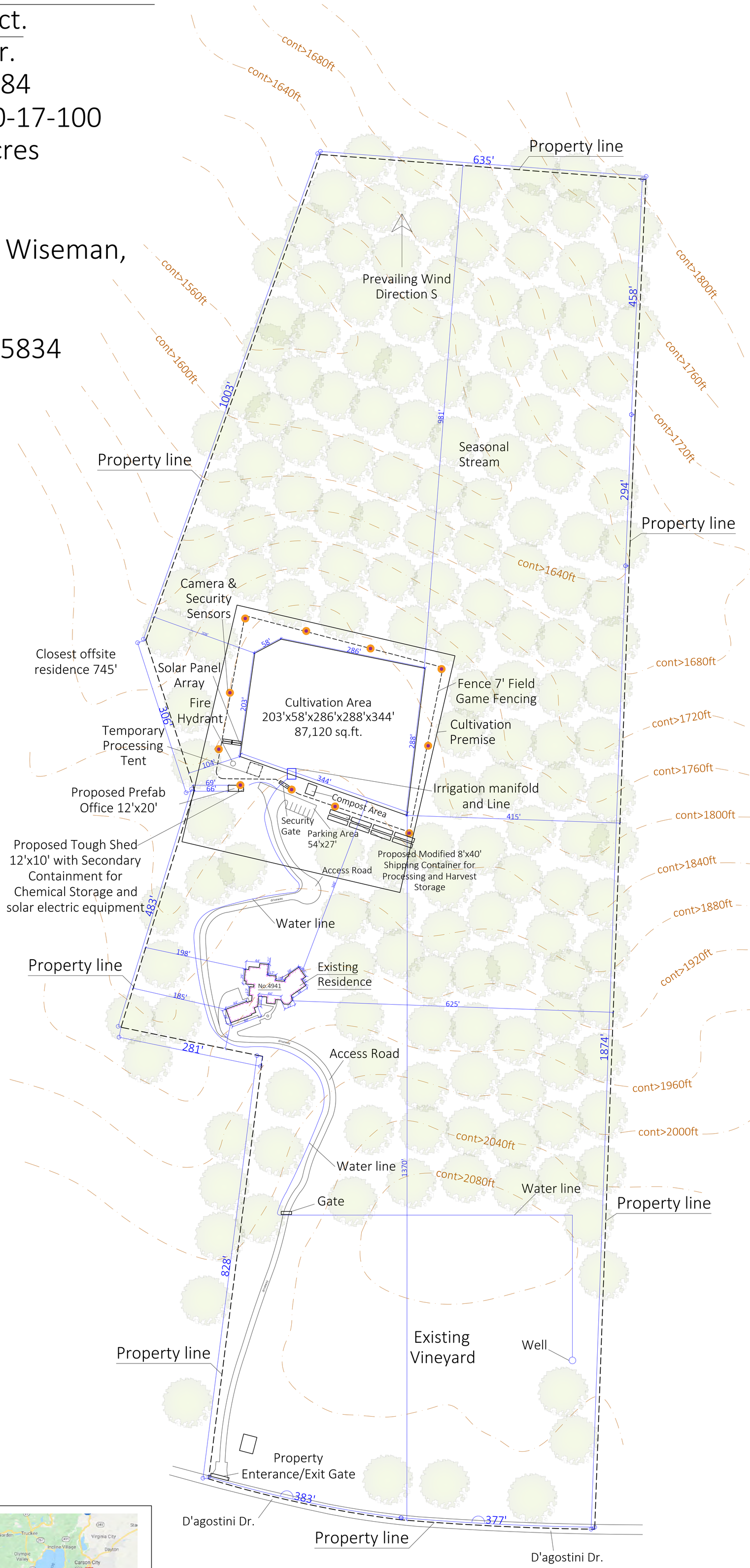
PROPERTY DIAGRAM SITE PLAN

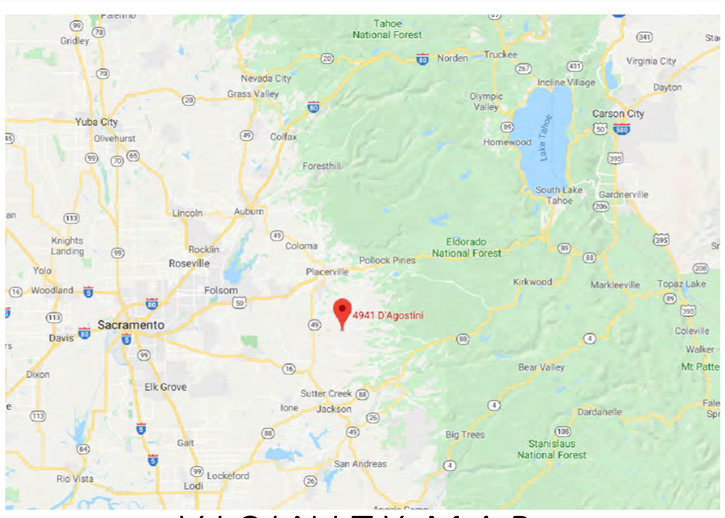
Pioneer Fire District.

4941 D'agostini Dr.
Somerset, CA 95684
Parcel ID: 046-710-17-100
Lot area: 46.53 Acres
Plot Size: 24"x36"
Owners:
John Muraco, Joe Wiseman,
Michael Pinette
338 Olivadi Way,
Sacramento, CA 95834

N

scale 1"=100'





VICINITY MAP

CCUP21-0004/Single Source Solutions
Preliminary Site Plan
Exhibit G

Created by:

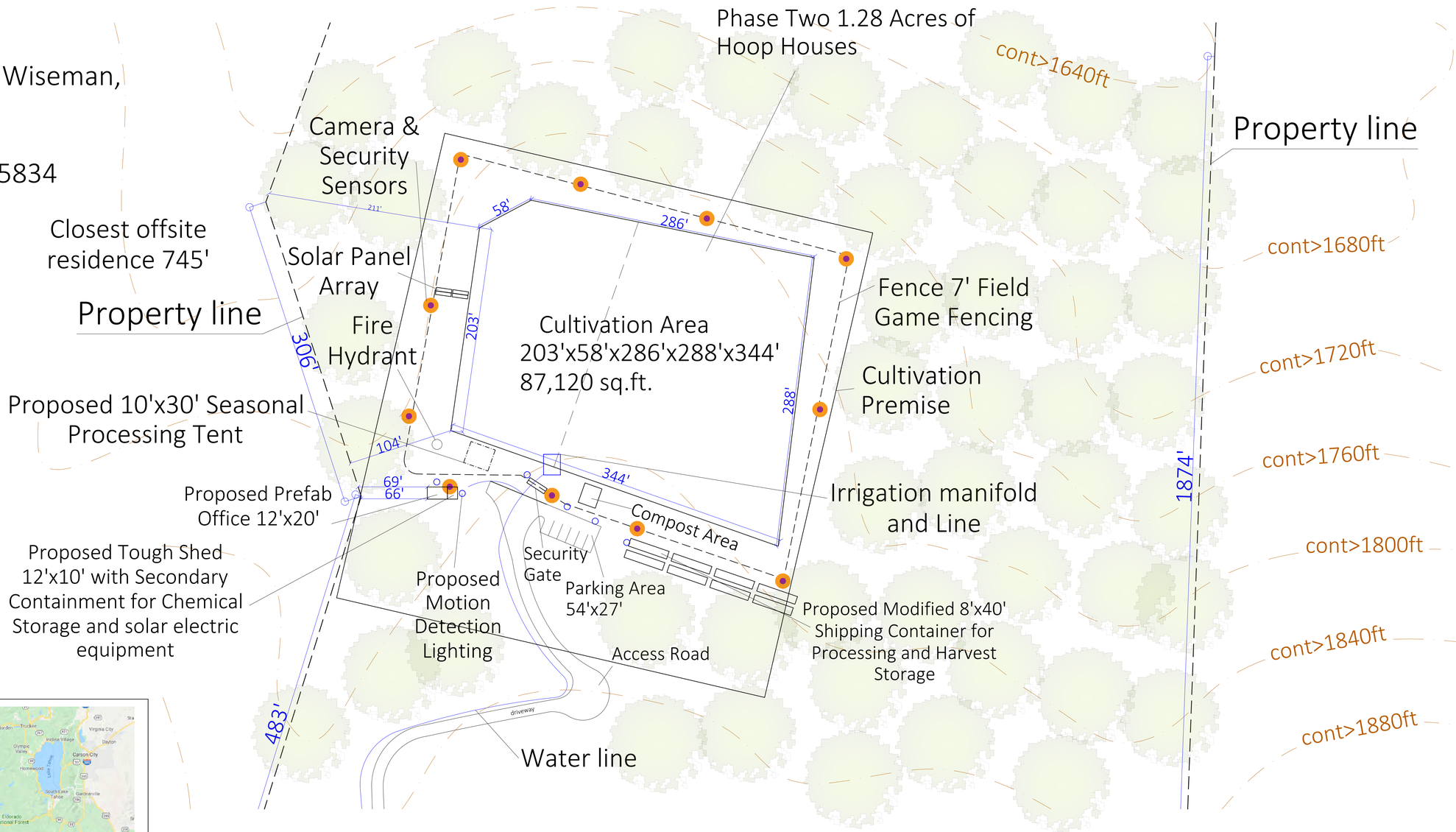
GETASITEPLAN.COM
WITH BEST QUALITY IN SHORT TIME

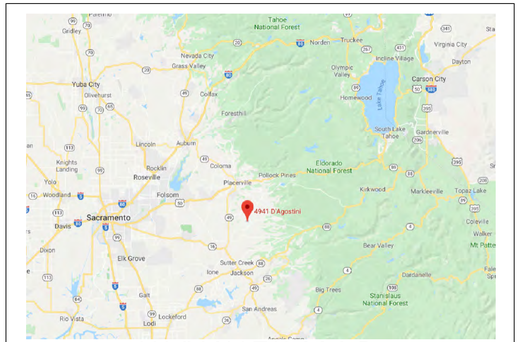
PREMISE DIAGRAM SITE PLAN

Pioneer Fire District.
4941 D'agostini Dr.
Somerset, CA 95684
Parcel ID: 046-710-17-100
Lot area: 46.53 Acres
Plot Size: 24"x36"
Owners:
John Muraco, Joe Wiseman,
Michael Pinette
338 Olivadi Way,
Sacramento, CA 95834

N

scale 1"=50'





VICINITY MAP

CCUP21-0004/Single Source Solutions
Preliminary Site Plan
Exhibit G

Created by:

GETASITEPLAN.COM
WITH BEST QUALITY IN SHORT TIME

ENVIRONMENTAL PERMITTING SPECIALISTS
Air Quality • Permitting • OHSA • RMP/PSM

DRAFT TECHNICAL MEMORANDUM

To: Rodney Miller **Date:** July 21, 2021

From: Ray Kapahi RK
Tel: 916-687-8352
Tel: 916-687-8352
E-Mail: ray.kapahi@gmail.com

Subject: Analysis of Odor at the Proposed Outdoor Cannabis Cultivation Located at 4941 D'Agostini Drive in Somerset (El Dorado County), California

INTRODUCTION AND SUMMARY

Environmental Permitting Specialists (EPS) has completed its review of potential odors at your proposed outdoor cannabis cultivation site in Somerset. It is our understanding the outdoor cultivation site would be located at 5840 Stephanie Court in Somerset. The maximum area for cultivation will be 87,120 square feet. The cultivation area would be located between 104 feet and 981 feet from the nearest property lines. A site map showing the cultivation area and distances to the property lines is shown in Figure 1.

EPS used an air dispersion model, 1 year (2019) of hourly wind and temperature data at Somerset and on-site measurements of odor intensity at other locations to conduct this analysis. Data from 4 other outdoor cannabis and hemp cultivation facilities and one Tedlar bag sample were reviewed as part of the current analysis. Odor measurements taken at 0.75 acre outdoor cultivation site in Yolo County were used as baseline odors to predict odors for the D'Agostini property lines.

The results of our analysis indicate that maximum odor intensity along the property lines would range from below 1 DT to 14.97 DT. The highest odor intensity occurs along the Southwest portion of the property where the separation between the cultivation area and the property lines range from 104 to 208 feet.

Since there is a potential for odor intensity exceeding El Dorado County's limit of 7 DT, EPS recommends the installation of an odor control system along a portion of the Southwestern property line to mitigate the odors.

This Technical Memorandum presents the methodology, data and assumptions used in this analysis. These are described in detail below.

SCOPE AND METHODOLOGY OF ODOR ANALYSIS

The overall methodology used in this analysis is to use an atmospheric dispersion model to predict the dilution of odors as they migrate away from the outdoor cultivation area. By calculating the relative concentration of odors adjacent to the cultivation area and at the property line(s), we can determine the dilution ratio defined as odor concentration at the cultivation area divided by concentration at the property line(s).

For example, if the maximum concentration at the cultivation area is 5,000 micrograms per cubic meter (ug/m3) and the relative concentration at the property line 2,000 ug/m3, the dilution ratio would equal:

$$\text{Dilution Ratio} = \frac{5{,}000 \text{ ug/m3}}{2{,}000 \text{ ug/m3}} = 2.5$$

In other words, the odors would be dilution by a factor of 2.5 as they migrate from the cultivation area towards the property line.

The dilution factor is used along with measurements at other outdoor cannabis cultivation sites to predict odor intensity at the D'Agostini property lines. This methodology was reviewed the staff at El Dorado County Air Quality Management District (AQMD) to confirm that this approach would be acceptable. The District agreed with this approach as noted in their August 28, 2020 letter to Aaron Mount at El Dorado County Planning.

Modeling Methodology

We used the EPA and AQMD recommended AERMOD dispersion model (Version 19191) along with one year (2019) of hourly wind data for Somerset. The data (known as MM5) is derived from weather satellites to calculation winds and other parameters for all locations in the continental US. The data used was prepared by Lakes Environmental (Waterloo, Canada)[1].

The cultivation site was modeled as a single ground based area source. Concentrations were calculated using a 10 meter grid using an emission rate of 1.00×10^{-4} grams/sec-square meter. See Figure 2.

[1] Lakes Environmental. Waterloo, Canada. Information on the development of local wind data based on the MM5 for Somerset can be found at: https://www.weblakes.com/services/met_data.html#aermetmm5

The model results are concentrations in terms of micrograms per cubic meter at each grid location averaged over an 1-hour. These concentrations are meaningful only in a relative sense to help establish the dilution pattern. It is recognized that the averaging time for odors is a few minutes, not 1 hour. Typically, peak concentrations over a few minutes are many times greater than those over 1 hour. However, the ratio of concentrations and the dilution factor will remain the same whether averaged over a few minutes or 1 hour averaging tine.

Finally, we note that the maximum predicted concentration varies with both the distance and the direction from the cultivation site. Generally, the concentration decreases with distance from the cultivation site. Figures 4 and 5 illustrate the spatial distribution of 1-hour relative concentration. These figures show that the highest 1-hour relative concentration (based on 8,760 hours that were modeled) occur East of the property.

Baseline Odor Used in the Analysis

We used odor measurements taken at a Yolo County outdoor cannabis site. This outdoor site covers 0.75 acres and is located at 22945 County Road 23, Esparto. At the time the measurements were taken, the plants were 2 weeks away from harvesting. Odor measurements were taken September 22, 2020 that indicated odor intensity of 15 DT. However, we noted that there were brief periods when odor intensity was above 15 but were not fully captures by the Nasal Ranger. We estimated the odor intensity to be closer to 20 DT and this is the value used in the current analysis. A complete documentation of the September 22nd odor survey is attached.

CALCULATION OF ODOR INTENSITY AND RESULTS

The calculation of odor intensity at the property lines is as follows:

$$\text{Odor Intensity at Property Line} = \frac{\text{Baseline Odor Intensity (DT)}}{\text{Dilution Factor}}$$

For example, the odor intensity at the Southwestern property line (See Figure 6) would equal:

$$\frac{20 \text{ DT}}{1.34} = 14.97 \text{ DT}$$

The results for the closest property lines is summarized on the next page.

Location	Distance to Property Line		Maximum Conc.	Conc. At Property Line	Lowest Dilution Ratio	Fenceline DT
	(ft)	(m)				
South	534	162.8	7,437	361	20.60	0.97
North	981	299.1	57,391	6,500	8.83	2.27
Eastern Property Line	415	126.5	99,624	23,667	4.21	4.75
SW Property Line	104	31.7	65,896	36,397	1.81	11.05
NW Property Line	208	63.4	76,555	32,956	2.32	8.61
Baseline DT	20					

Note: The Northern property line lies outside the modeling grid. The relative odor concentration was estimated based on data at the Northern edge of the modeling grid.

The odor intensity at portions of the Southwestern and Northwestern property lines would exceed the County's threshold of 7 (See Figure 7). As a result, odor mitigation along this property line is recommended.

Once a permit has been issued and cannabis cultivation proceeds, EPS staff will be available to conduct odor monitoring at your property to confirm that odors do not exceed the County limit of 7 DT.

FIGURES

Figure 1

Site Map

Figure 2

Modeling Grid

Figure 3

Contours of Relative 1-Hour Concentrations

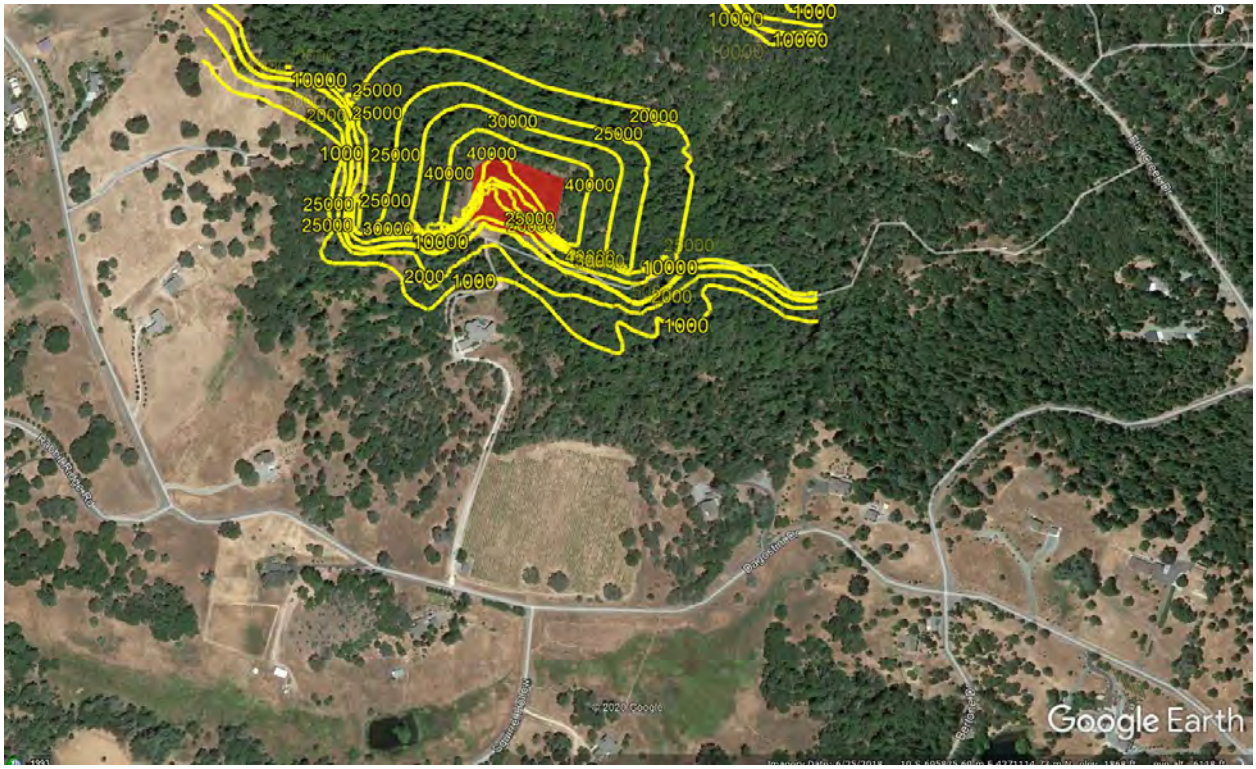


Figure 4

Contours of Relative Concentration (close-up)

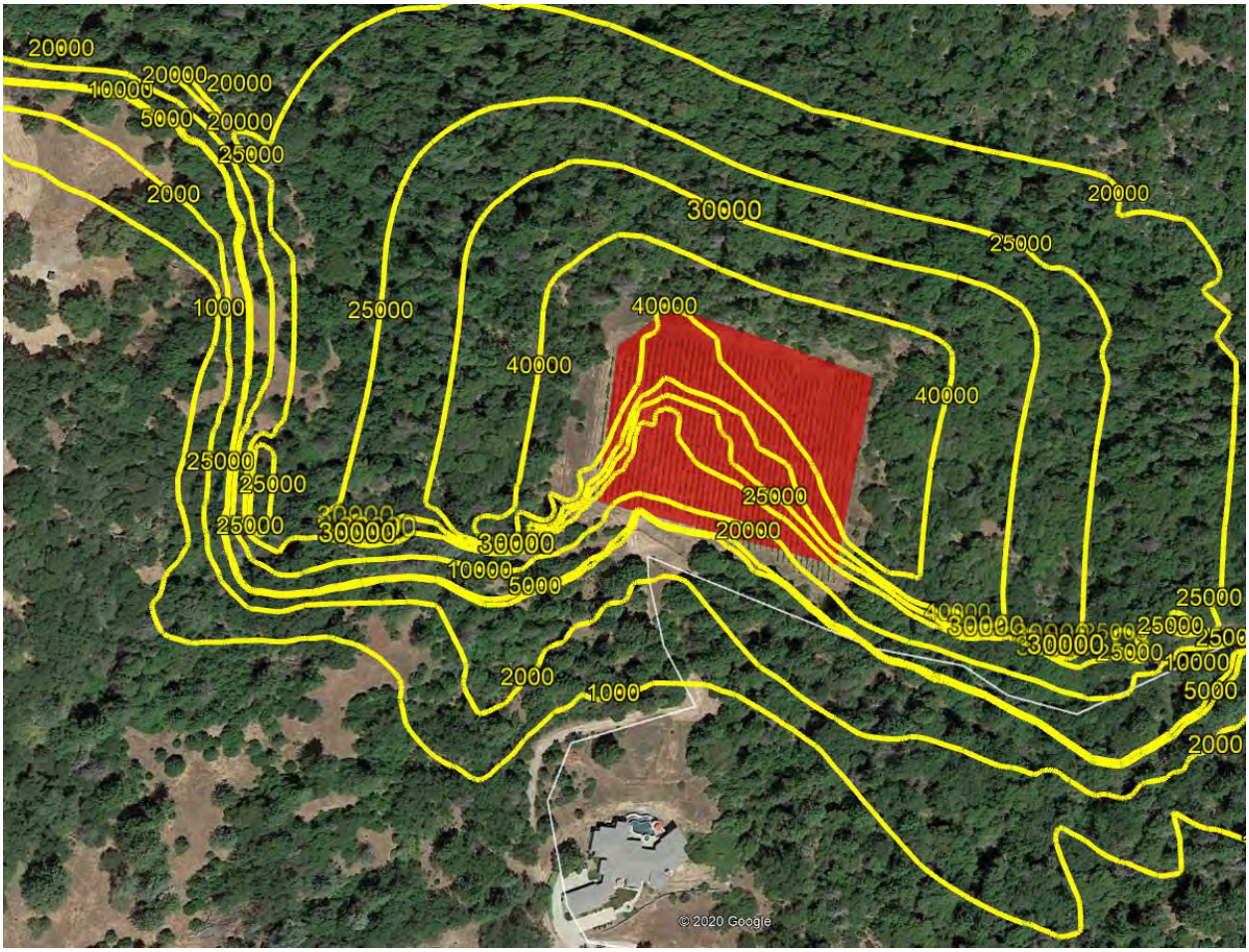


Figure 5

Numerical Values of Relative Concentration

(in micrograms per cubic meter)

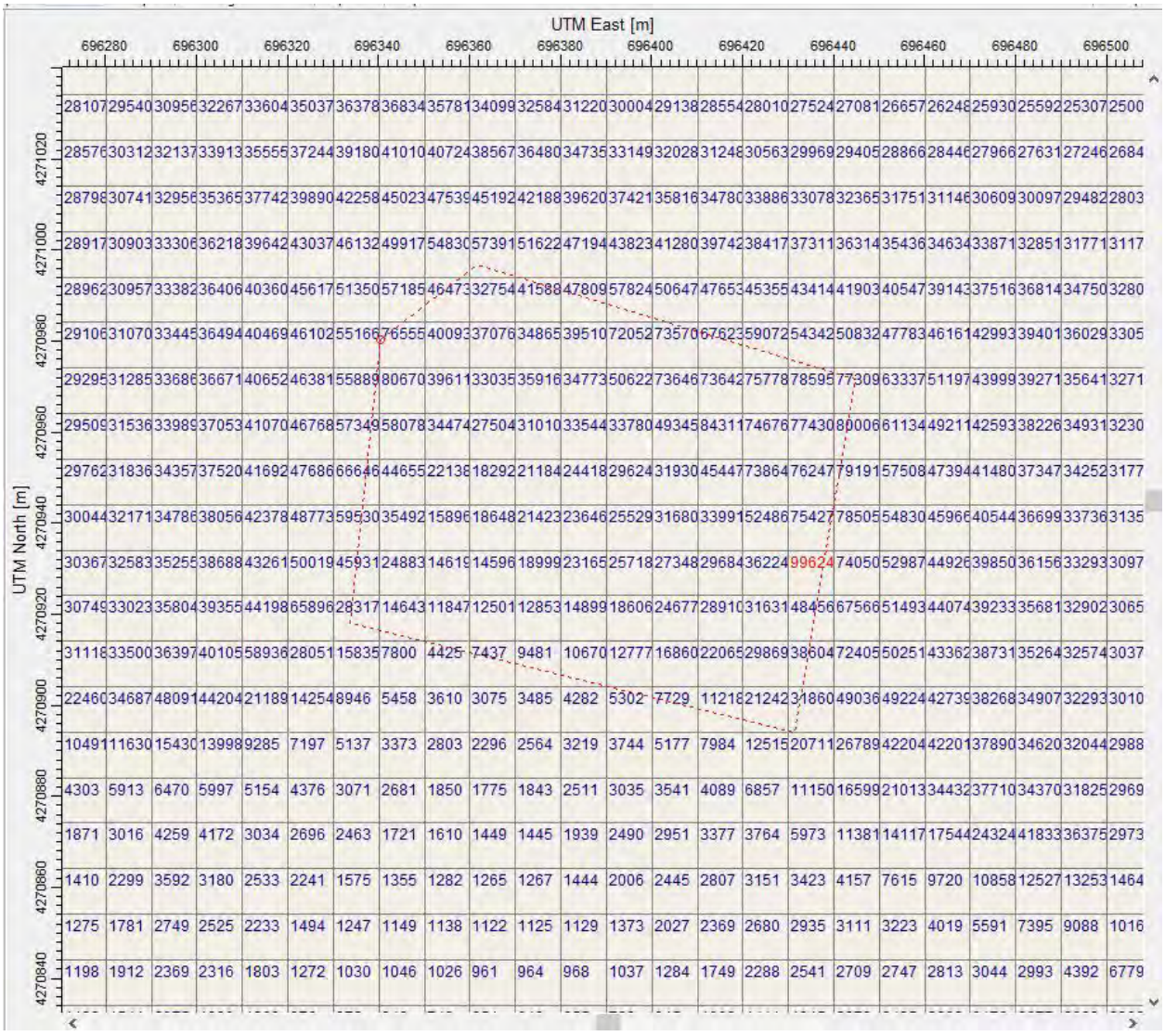


Figure 6

Sample Calculation of Dilution Factor at Southwest Property Line (104 feet from Canopy)

Figure 7

Summary of Results

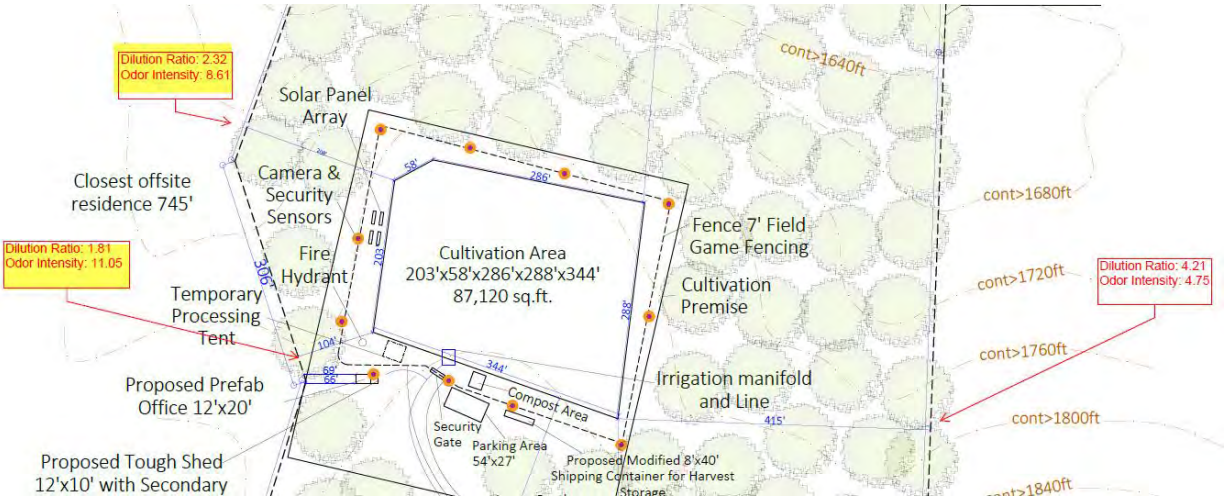


Figure 7...Continued

Summary of Results

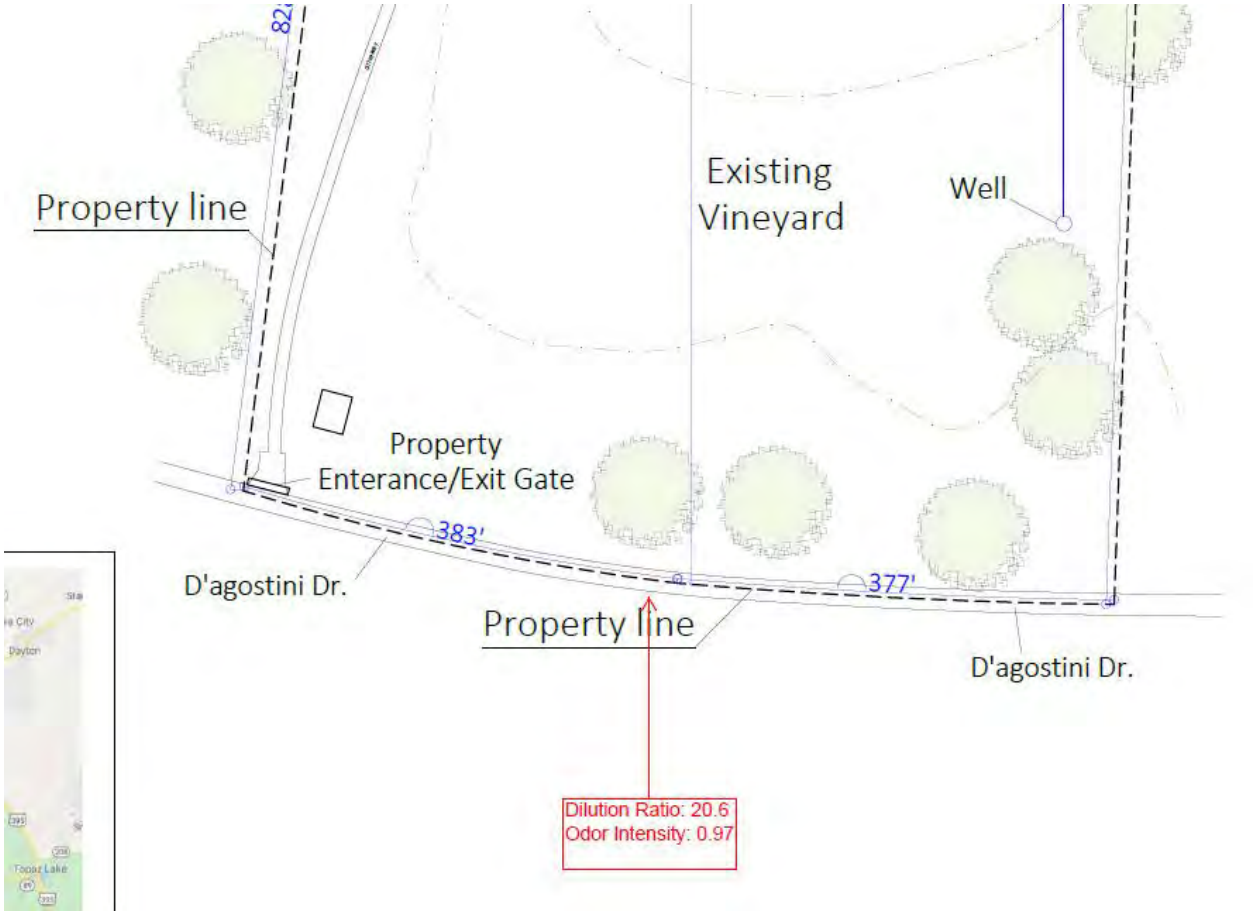
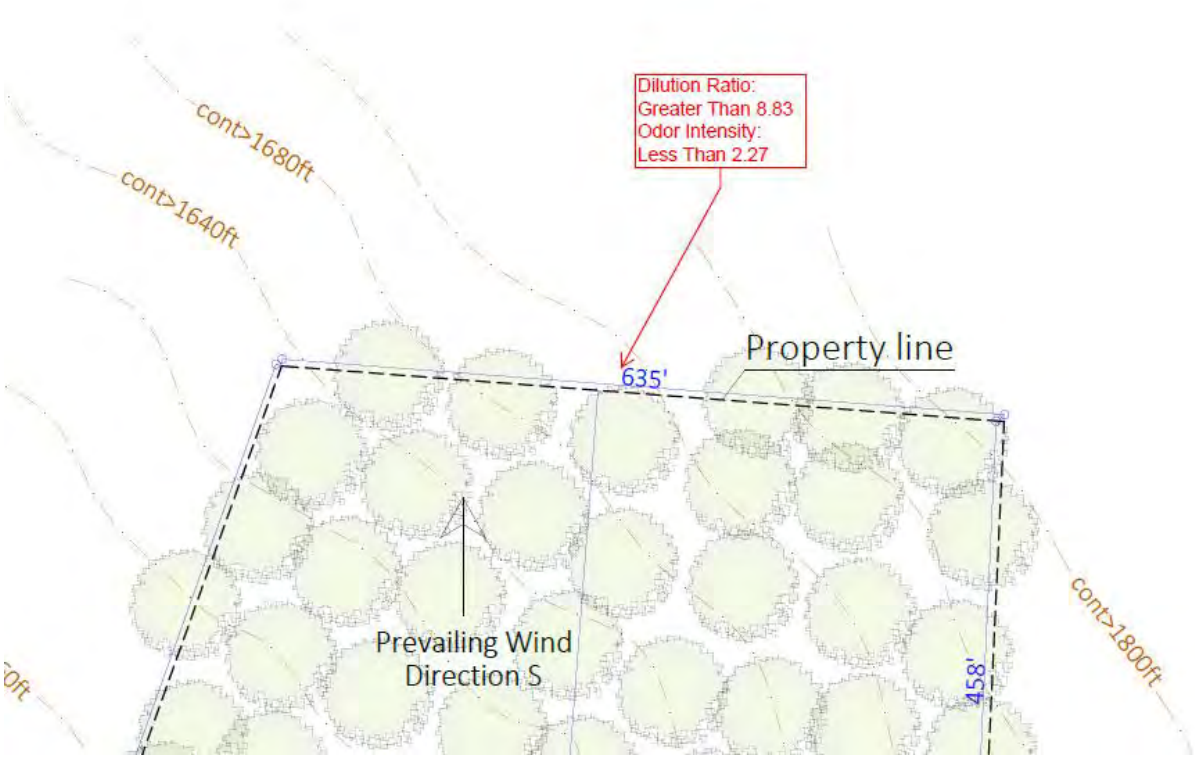


Figure 7...Continued

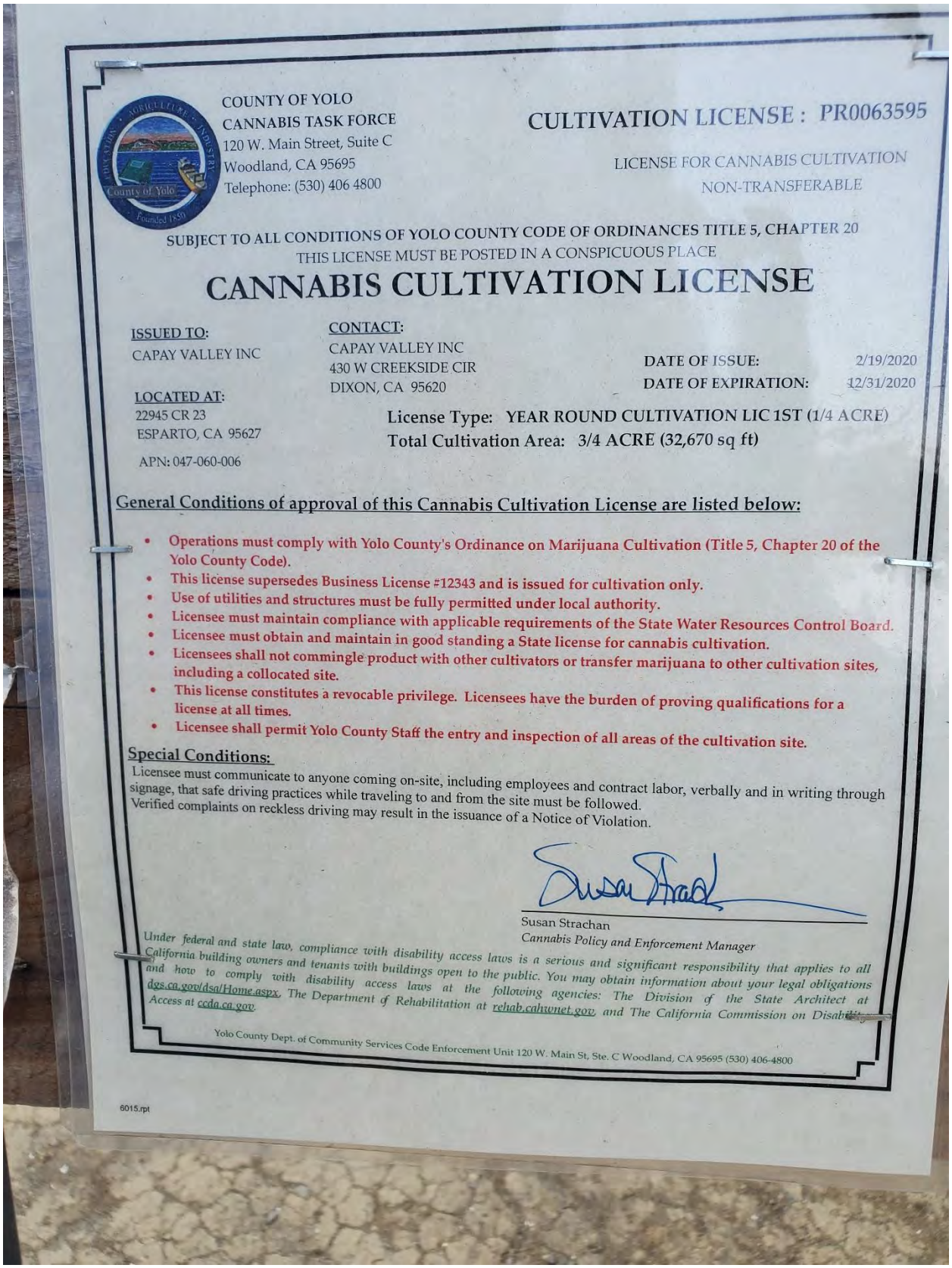
Summary of Results



ATTACHMENT

Yolo County Cannabis Site for Baseline Odor Measurements

September 22, 2020



COUNTY OF YOLO
CANNABIS TASK FORCE
120 W. Main Street, Suite C
Woodland, CA 95695
Telephone: (530) 406 4800

CULTIVATION LICENSE : PR0063595

LICENSE FOR CANNABIS CULTIVATION
NON-TRANSFERABLE

SUBJECT TO ALL CONDITIONS OF YOLO COUNTY CODE OF ORDINANCES TITLE 5, CHAPTER 20
THIS LICENSE MUST BE POSTED IN A CONSPICUOUS PLACE

CANNABIS CULTIVATION LICENSE

ISSUED TO:
CAPAY VALLEY INC

CONTACT:
CAPAY VALLEY INC
430 W CREEKSIDE CIR
DIXON, CA 95620

LOCATED AT:
22945 CR 23
ESPARTO, CA 95627

APN: 047-060-006

DATE OF ISSUE: 2/19/2020
DATE OF EXPIRATION: 12/31/2020

License Type: YEAR ROUND CULTIVATION LIC 1ST (1/4 ACRE)
Total Cultivation Area: 3/4 ACRE (32,670 sq ft)

General Conditions of approval of this Cannabis Cultivation License are listed below:

- **Operations must comply with Yolo County's Ordinance on Marijuana Cultivation (Title 5, Chapter 20 of the Yolo County Code).**
- **This license supersedes Business License #12343 and is issued for cultivation only.**
- **Use of utilities and structures must be fully permitted under local authority.**
- **Licensee must maintain compliance with applicable requirements of the State Water Resources Control Board.**
- **Licensee must obtain and maintain in good standing a State license for cannabis cultivation.**
- **Licensees shall not commingle product with other cultivators or transfer marijuana to other cultivation sites, including a collocated site.**
- **This license constitutes a revocable privilege. Licensees have the burden of proving qualifications for a license at all times.**
- **Licensee shall permit Yolo County Staff the entry and inspection of all areas of the cultivation site.**

Special Conditions:
Licensee must communicate to anyone coming on-site, including employees and contract labor, verbally and in writing through signage, that safe driving practices while traveling to and from the site must be followed. Verified complaints on reckless driving may result in the issuance of a Notice of Violation.

Susan Strachan
Cannabis Policy and Enforcement Manager

Under federal and state law, compliance with disability access laws is a serious and significant responsibility that applies to all California building owners and tenants with buildings open to the public. You may obtain information about your legal obligations and how to comply with disability access laws at the following agencies: The Division of the State Architect at dgs.ca.gov/dsa/Home.aspx, The Department of Rehabilitation at rehab.cahwnet.gov, and The California Commission on Disability Access at ccda.ca.gov.

Yolo County Dept. of Community Services Code Enforcement Unit 120 W. Main St, Ste. C Woodland, CA 95695 (530) 406-4800

6015.rpt

Odor Measurements

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Date	Time	Wind Speed	Wind Direction	Temp	Relative Humidity		Nasal Ranger Reading							
2	9/22/2020	9:45	(MPH0	(Dir From)	(F)	(%)		60	30	15	7	4	2	<2	ND
3															
4	9/22/2020	9:55	INOP	INOP	79.1	55.6					X				
5	9/22/2020	9:58	INOP	INOP	79.5	54.6							X		
6	9/22/2020	10:00	INOP	INOP	81.3	52.4						X			
7	9/22/2020	10:10	INOP	INOP	80	47.6					X				
8	9/22/2020	10:12	INOP	INOP	78.8	48.7				X					
9	9/22/2020	10:15	INOP	INOP	81.3	45.9						X			
10	9/22/2020	10:16	INOP	INOP	81.3	44.8							X		
11	9/22/2020	10:17	INOP	INOP	81.4	43.5							X		
12	9/22/2020	10:18	INOP	INOP	81.4	42.9						X			
13															
14															
15															

Excerpts of Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Location	22945 County Road 23, Esparto California														
2	Device Name	Kestrel 5500														
3	Device Model	KESTREL_5500L														
4	Serial Number	2486826														
5	ORMATTED DATE_TIM	Altitude	Dew Point	Density Altitude	Wind Chill	Direction - True	Headwind	Heat Stress Index	Crosswind	Wind Speed	Relative Humidity	Direction - Mag	Psychro Wet Bulb Temperature	Station Pressure	Temperature	Barometric Pressur
6	YYY-MM-DD HH:MM:S	ft	¬°°F	ft	¬°°F	¬°°	mph	¬°°F	mph	mph	%	¬°°	¬°°F	inHg	¬°°F	inHg
7	9/22/2020 10:15	291	65	2,057	82.8	***	***	84.9	***	0	55	***	70.5	29.69	82.8	29.69
8	9/22/2020 10:15	291	65.2	2,067	82.9	***	***	85.3	***	0	55.2	***	70.7	29.69	82.9	29.69
9	9/22/2020 10:15	291	65.4	2,080	82.9	***	***	85.3	***	0.9	55.2	***	70.7	29.69	83.1	29.69
10	9/22/2020 10:15	295	65.4	2,090	83.1	***	***	85.6	***	0	55	***	70.9	29.69	83.2	29.68
11	9/22/2020 10:15	291	65.6	2,095	83.3	***	***	86	***	0	55.4	***	71.1	29.69	83.3	29.68
12	9/22/2020 10:15	295	65.6	2,092	83.1	***	***	85.6	***	0	55.6	***	71.1	29.68	83.1	29.68
13	9/22/2020 10:16	295	64.5	2,040	82.4	***	***	84	***	0	54.6	***	70.2	29.69	82.5	29.68
14	9/22/2020 10:16	296	62.8	1,988	81.9	***	***	82.8	***	0	52.4	***	68.9	29.68	81.9	29.68
15	9/22/2020 10:16	296	61.3	1,963	81.7	***	***	82.2	***	0	50.1	***	68	29.68	81.7	29.68
16	9/22/2020 10:16	296	60.2	1,951	81.5	***	***	81.3	***	0	48.3	***	67.3	29.68	81.6	29.68
17	9/22/2020 10:16	296	59.4	1,928	81.3	***	***	81	***	0	47.4	***	66.9	29.68	81.4	29.68
18	9/22/2020 10:16	296	58.9	1,894	80.8	***	***	80.4	***	0	47.3	***	66.6	29.68	80.9	29.68
19	9/22/2020 10:16	295	58.4	1,837	79.9	***	***	79.3	***	0	47.6	***	65.8	29.68	80	29.68
20	9/22/2020 10:16	295	57.8	1,771	79	***	***	78.1	***	0	48.2	***	65.3	29.68	79.1	29.68
21	9/22/2020 10:16	296	57.8	1,753	78.6	***	***	77.9	***	0	48.7	***	65.1	29.68	78.8	29.68
22	9/22/2020 10:16	295	57.8	1,739	78.4	***	***	77.7	***	0	49	***	65.1	29.69	78.6	29.68
23	9/22/2020 10:16	291	58	1,746	78.6	***	***	77.9	***	0	49	***	65.1	29.69	78.7	29.68
24	9/22/2020 10:16	291	58.2	1,773	79	***	***	78.3	***	0	48.8	***	65.5	29.69	79.1	29.68
25	9/22/2020 10:16	291	58.4	1,798	79.5	***	***	79	***	0	48.5	***	65.7	29.69	79.5	29.69
26	9/22/2020 10:16	291	58.6	1,825	79.9	***	***	79.3	***	0	48.2	***	66	29.69	80	29.69
27	9/22/2020 10:16	288	58.8	1,852	80.2	***	***	79.7	***	0	47.9	***	66.2	29.69	80.3	29.69
28	9/22/2020 10:16	291	59	1,874	80.6	***	***	80.2	***	0	47.7	***	66.4	29.69	80.7	29.68
29	9/22/2020 10:16	295	59.2	1,891	80.8	***	***	80.4	***	0	47.7	***	66.6	29.69	80.9	29.68
30	9/22/2020 10:16	288	59.3	1,899	81	***	***	80.8	***	0	47.7	***	66.7	29.69	81.1	29.69
31	9/22/2020 10:16	253	59.5	1,867	81.1	***	***	81	***	0	47.8	***	66.9	29.73	81.2	29.73
32	9/22/2020 10:16	310	59.6	1,946	81.3	***	***	81.1	***	0	47.7	***	66.9	29.67	81.3	29.67
33	9/22/2020 12:15	321	59.6	1,963	81.3	***	***	81.1	***	0	47.6	***	66.9	29.66	81.4	29.65
34	9/22/2020 12:15	81	59.1	1,662	81.3	***	***	81	***	0	46.8	***	66.7	29.91	81.4	29.91
35	9/22/2020 12:15	56	58.4	1,625	81.3	***	***	80.6	***	0	45.7	***	66.4	29.94	81.4	29.94

Certificate of Completion

Richard Ensminger

Completed the "ODOR SCHOOL"® course

Nasal Ranger Inspector

Odor Assessment & Measurement for Ambient Odors

This course prepares the individual to make odor observations and investigations, to record pertinent information, and to report the data and findings to management or officials. (3.5TCH)

NASAL RANGER

01/07/2020

www.fivesenses.com

ODOR TRACK'R

ENVIRONMENTAL PERMITTING SPECIALISTS
Air Quality • Permitting • OHSA • RMP/PSM

DRAFT

TECHNICAL MEMORANDUM

To: Michael Pinette
Single Source Solution, Inc.

Date: August11, 2023

From: Ray Kapahi RK
Tel: 916-687-8352
Tel: 916-687-8352
E-Mail: ray.kapahi@gmail.com

Subject: Revised Analysis of Odor at the Proposed Cannabis Cultivation Located at 4941 D'Agostini Drive in Somerset (El Dorado County), California

---

INTRODUCTION AND SUMMARY

Environmental Permitting Specialists (EPS) completed an analysis of odors at the proposed cannabis cultivation site located at 4941 D'Agostini Drive, Somerset on July 21, 2021. That analysis was based on an outdoor cannabis cultivationwith a maximum area of 87,120 square feet. The analysis indicated that odors at the property lines would range from 1 dilution to threshold (DT) to 14.97 DT. Since the maximum allowable odor intensity under Eldorado County Ordinance 5110 (5)(D) is 7 DT, the proposed project would not comply with the County's odor limits from cannabis cultivation.

Since the 2021 analysis, the project has been revised from outdoor cultivation to cultivation using hoop house and a smaller area of outdoor cultivation. The current project would use eight hoophouses and an outdoor area approximately 100 feet x 240 feet. Each hoop house would be 75 feet x 30 feet and would be equipped with a carbon filtration system that would reduce odor intensity to below 7 DT. Information on the carbon filter is attached. The revised site map showing the location of hoophouses and the outdoor cultivation areais shown in Figure 1.

As with the 2021 analysis, EPS used an air dispersion model, 1 year (2019) of hourly wind and temperature data at Somerset and on-site measurements of odor intensity at other locations to conduct this analysis as described in the July 21, 2021 Draft Technical Memorandum to M. Rodney Miller.

The results of the current analysis indicate that maximum odor intensity along the property lines would range from below 6.2 DT to 2.81 DT. The highest odor intensity occurs along the Southwest portion of the property where the separation between the outdoor cultivation area and the property lines range is approximately 190 feet.

Since the calculated odor intensity is below El Dorado County's limit of 7 DT, the project would comply with El Dorado County's Ordinance 5110(5)(D).

This Technical Memorandum presents the methodology, data and assumptions used in this analysis. Thesearedescribed in detail below.

SCOPE AND METHODOLOGY OF ODOR ANALYSIS

The overall methodology used in this analysis is to use an atmospheric dispersion model to predict the dilution of odors as they migrate away from the outdoor cultivation area. By calculating the relative concentration of odors adjacent to the cultivation area and at the property line(s), we can determine the dilution ratio defined as odor concentration at the cultivation area divided by concentration at the property line(s).

For example, if the maximum concentration at the cultivation area is 5,000 micrograms per cubic meter (ug/m3) and the relative concentration at the property line 2,000 ug/m3, the dilution ratio would equal:

$$\text{Dilution Ratio} = \frac{5{,}000 \text{ ug/m3}}{2{,}000 \text{ ug/m3}} = 2.5$$

In other words, the odors would be dilution by a factor of 2.5 as they migrate from the cultivation area towards the property line.

The dilution factor is used along with measurements at other outdoor cannabis cultivation sites to predict odor intensity at the D'Agostini property lines. This methodology was reviewedby the staff at El Dorado County Air Quality Management District (AQMD) to confirm that this approach would be acceptable. The District agreed with this approach as noted in their August 28, 2020 letter to Aaron Mount at El Dorado County Planning.

Modeling Methodology

As in the 2021 odor analysis, we used the EPA and AQMD recommended AERMOD dispersion model (Version 22112) along with one year (2019) of hourly wind data for Somerset. The data (known as MM5) is derived from weather satellites to calculation winds and other parameters

for all locations in the continental US. The data used was prepared by Lakes Environmental (Waterloo, Canada)[1].

The cultivation site was modeled as a single ground based area source. Concentrations were calculated using a 10 meter grid using an emission rate of 1.00 x 10^{-4} grams/sec-square meter. See Figure 2.

The model results are concentrations in terms of micrograms per cubic meter at each grid location averaged over 1-hour. These concentrations are meaningful only in a relative sense to help establish the dilution pattern. It is recognized that the averaging time for odors is a few minutes, not 1 hour. Typically, peak concentrations over a few minutes are many times greater than those over 1 hour. However, the ratio of concentrations and the dilution factor will remain the same whether averaged over a few minutes or 1 hour averaging tine.

Finally, we note that the maximum predicted concentration varies with both the distance and the direction from the cultivation site. Generally, the concentration decreases with distance from the cultivation site. Figures 4 and 5 illustrate the spatial distribution of 1-hour relative concentration. These figures show that the highest 1-hour relative concentration (based on 8,760 hours that were modeled) occur East of the property.

Baseline Odor Used in the Analysis

We used odor measurements taken at a Yolo County outdoor cannabis site. This outdoor site covers 0.75 acres and is located at 22945 County Road 23, Esparto. At the time the measurements were taken, the plants were 2 weeks away from harvesting. Odor measurements were taken September 22, 2020 that indicated odor intensity of 15 DT. However, we noted that there were brief periods when odor intensity was above 15 but were not fully captures by the Nasal Ranger. We estimated the odor intensity to be closer to 20 DT and this is the value used in the current analysis. A complete documentation of the September 22nd odor survey is attached.

CALCULATION OF ODOR INTENSITY AND RESULTS

The calculation of odor intensity at the property lines is as follows:

$$\text{Odor Intensity at Property Line} = \frac{\text{Baseline Odor Intensity (DT)}}{\text{Dilution Factor}}$$

For example, the odor intensity at the Southwestern property line (See Figure 6) would equal:

$$\frac{20 \text{ DT}}{3.24} = 6.17 \text{ DT}$$

[1] Lakes Environmental. Waterloo, Canada. Information on the development of local wind data based on the MM5 for Somerset can be found at: https://www.weblakes.com/services/met_data.html#aermetmm5

The results for the closest property lines are summarized below and shown in Figure 7.

Location	Distance to Property Line		Maximum Conc.	Conc. At Property Line	Lowest Dilution Ratio	Fenceline DT
	(ft)	(m)				
North	< 1000	< 300	58,407	> 9738.9	< 6.00	< 3.33
Eastern Property Line	500	152.4	56,441	7,939	7.11	2.81
SW Property Line	190	57.9	64,944	20,043	3.24	6.17
Western Property Line	310	94.5	32,391	10,037	3.23	6.20
Baseline DT	20					

Note: The Northern property line lies outside themodeling grid. The relative odor concentration was estimated based on data at the Northern edge of the modeling grid.

Once a permit has been issued and cannabis cultivation proceeds, EPS staff will be available to conduct odor monitoring at your property to confirm that odors do not exceed the County limit of 7 DT.

Figure 1

Site Map

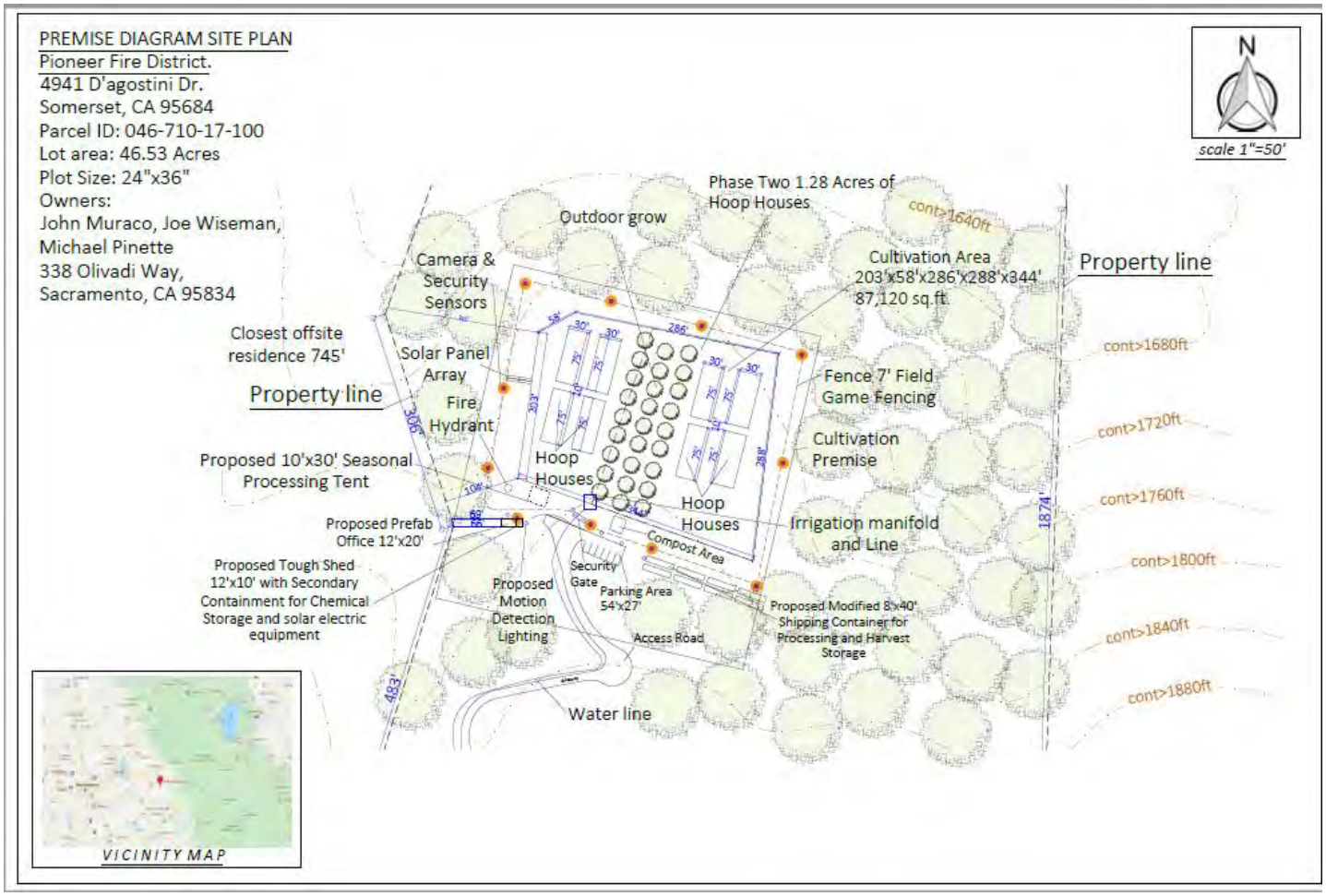


Figure 2

Modeling Grid

(The Red Rectangle Represents the Outdoor Canopy)

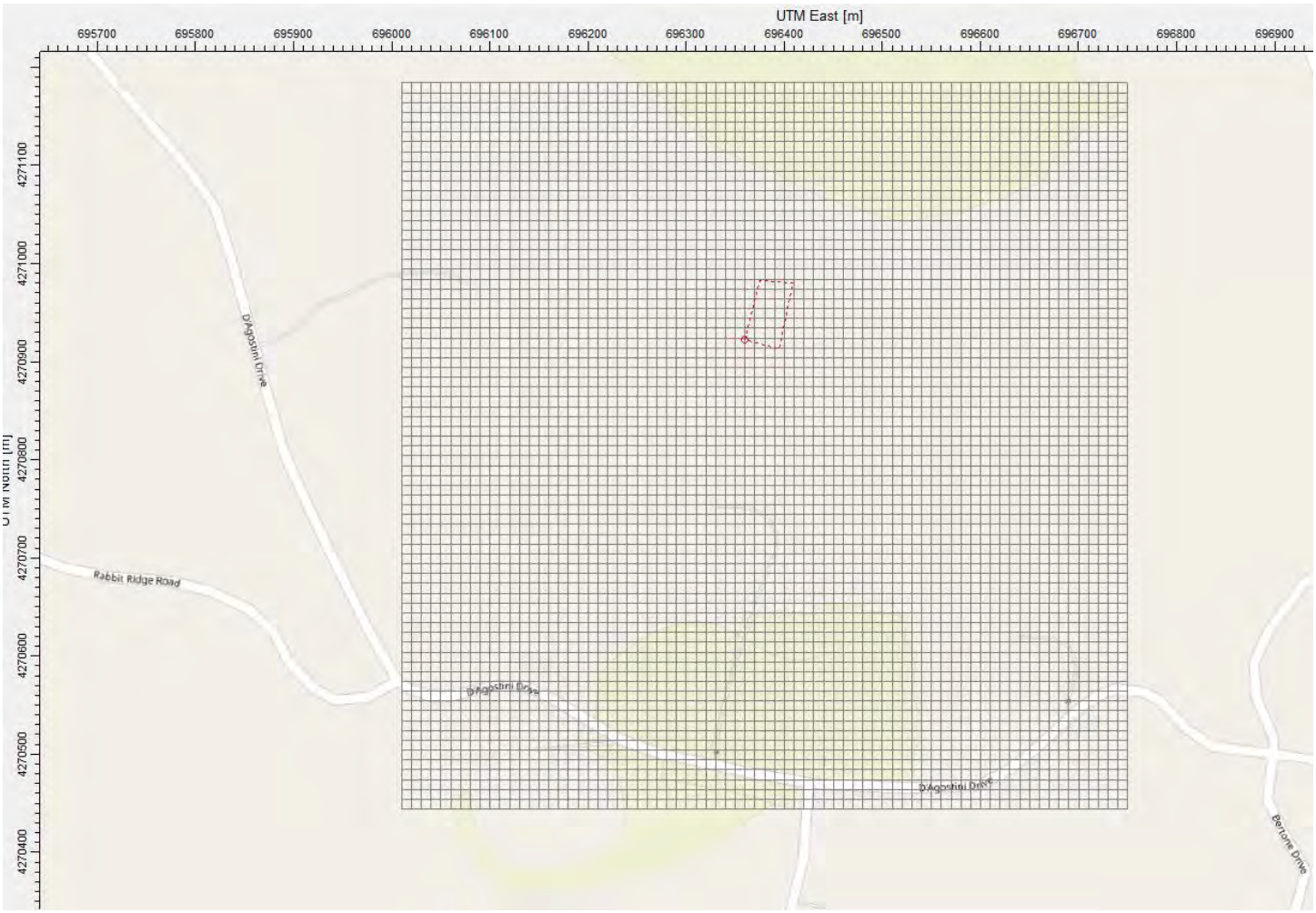


Figure 3

Contours of Relative Odor Concentration

(in micrograms per cubic meter)

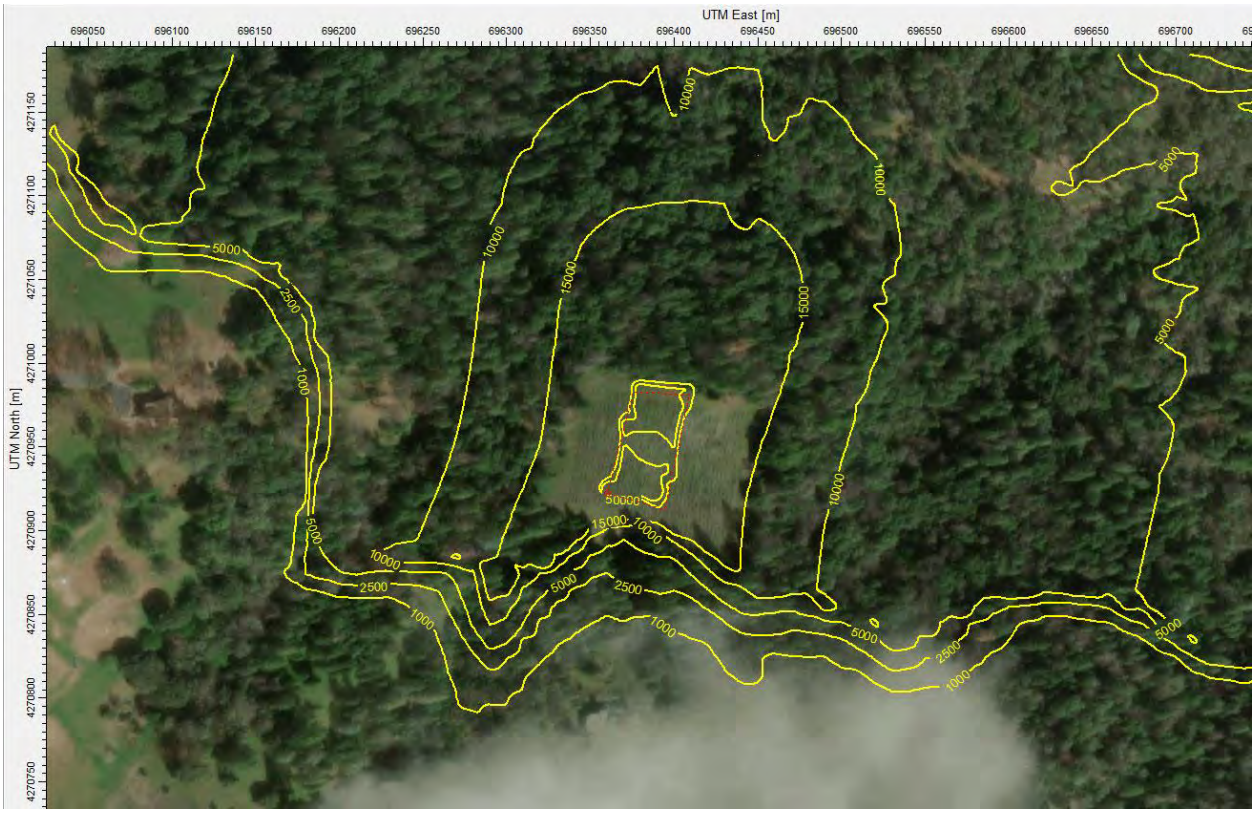


Figure 4

Contours of Relative Concentration (close-up)

(in micrograms per cubic meter)

Figure 5

Numerical Values of Relative Concentration

(in micrograms per cubic meter)

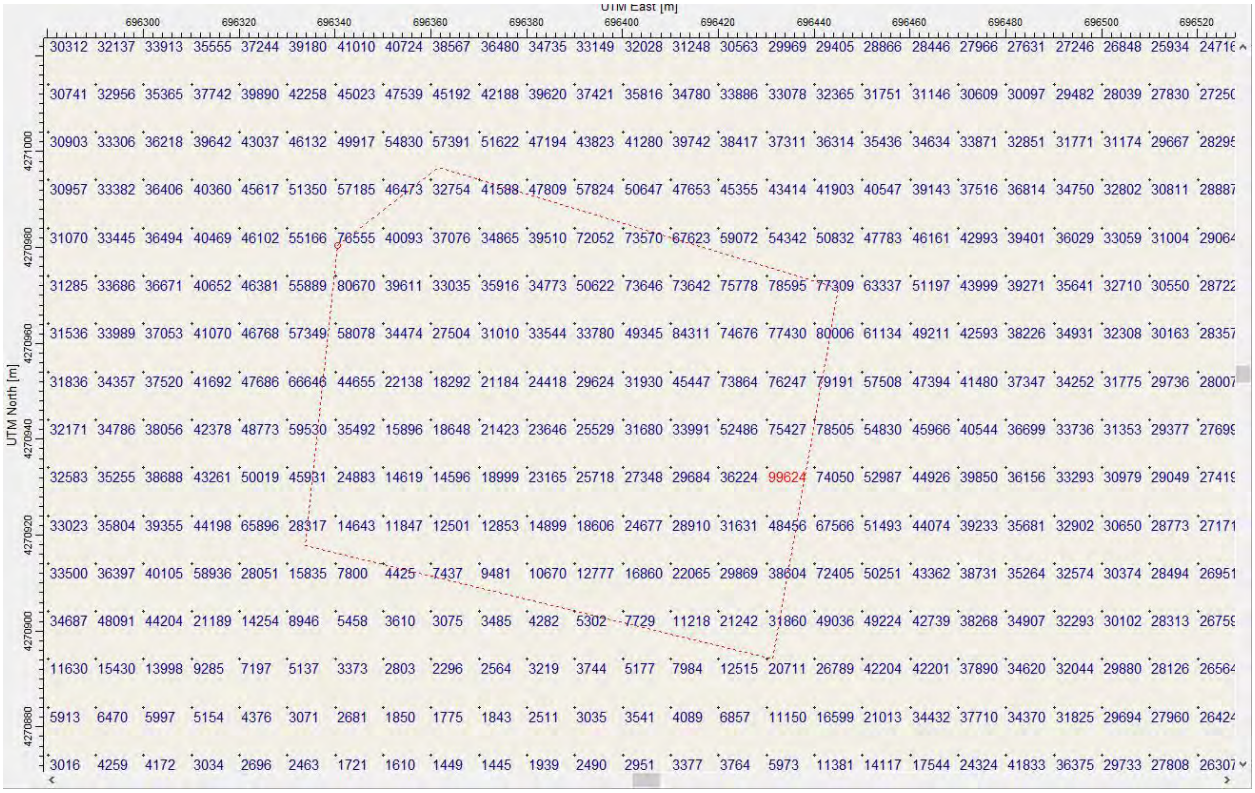


Figure 6

Sample Calculation of Dilution Factor

Property Line (190 feet from outdoor canopy)

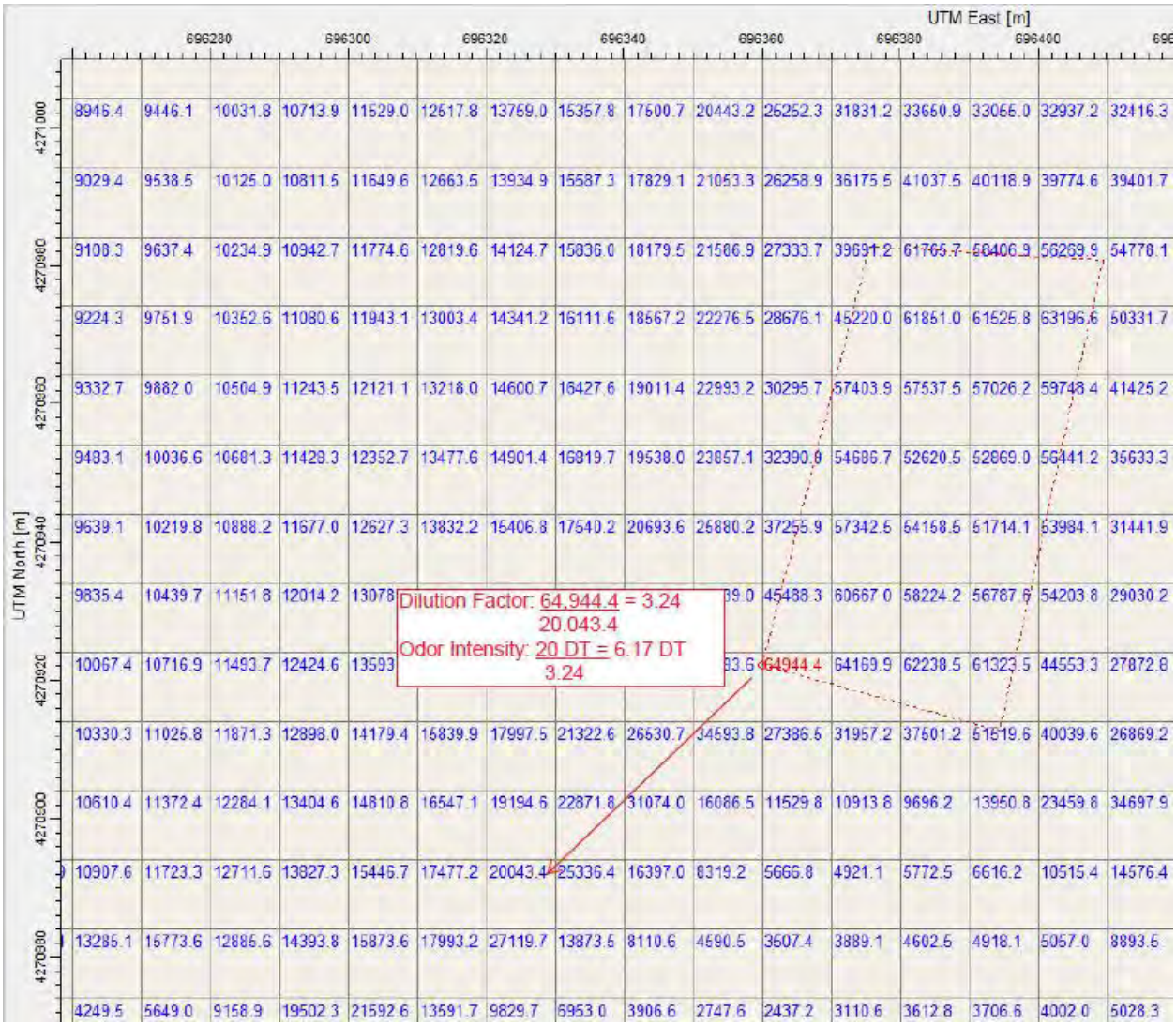
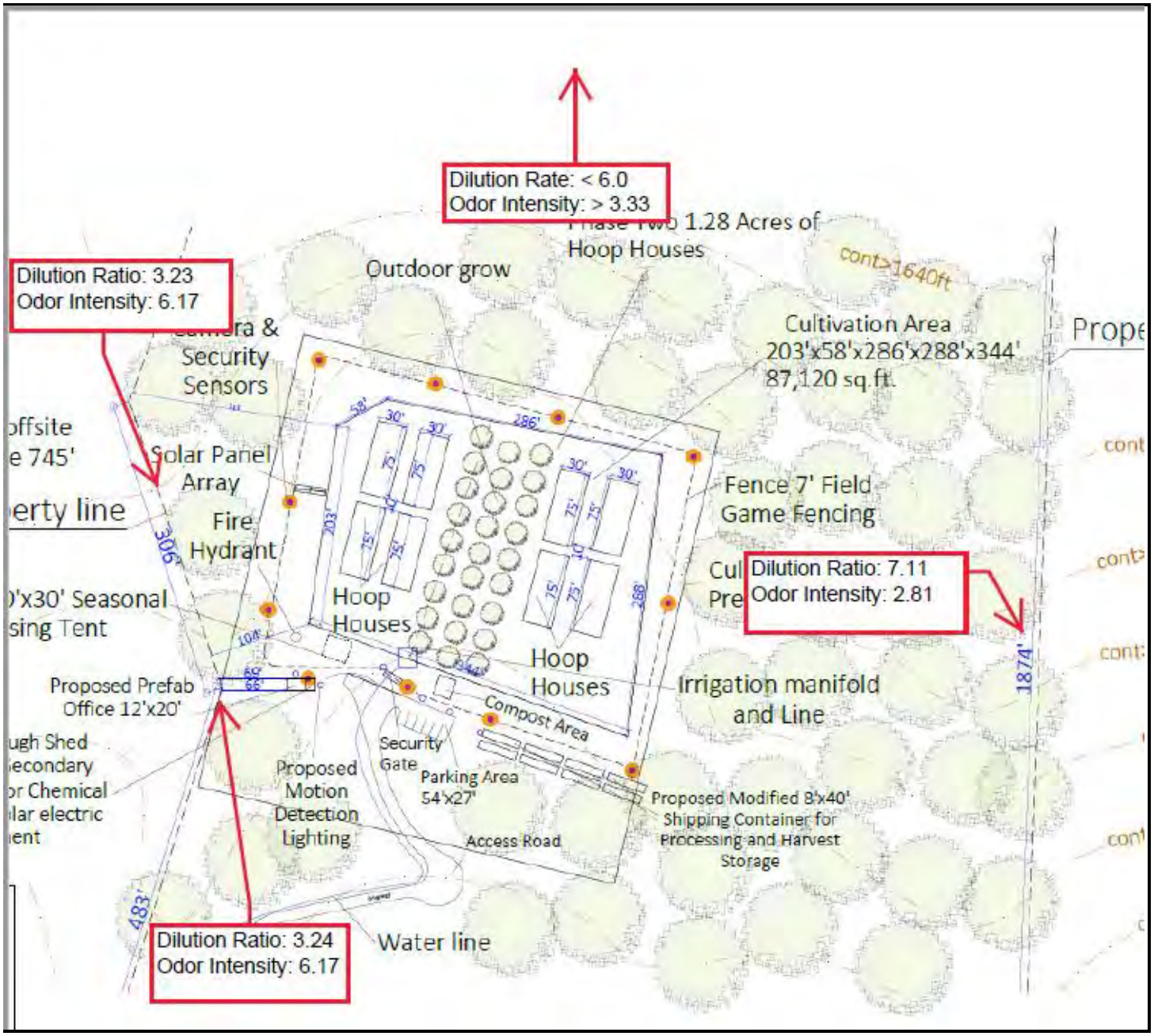


Figure 7

Summary of Results



Attachment

Description of Filters for odor Control at hoophouses

QUEST 335 208-230V | PN 4042500

PERFORMANCE

°F | %RH	80 | 60	75 | 50
Water Removal (P/Day)	350	233
Efficiency (P/kWh)	9.3	6.7
Energy Factor (L/kWh)	4.3	3.2

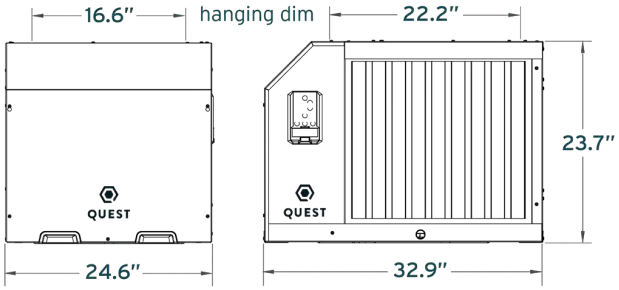
ELECTRICAL

°F | %RH	80 | 60	80 |60
Supply Voltage	**230V**	**208V**
Current Draw	6.9A	7.9A
MCA*	15A	15A
MOP*	20A	20A
Recommended Breaker Size	15A	15A
Power	1,565W	
Power Cord	NEMA 6-15P	
CFM	900	
BTU (Total)	20,300	
BTU (Motor Load)	5,100	
BTU (Heat of Condensation)	15,200	

SPECS

Control Type	Digital Onboard or External
Refrigerant Type	R410a
Refrigerant Amount	4 lb 12 oz
Weight	215 lb
Air Filter MERV Rating	MERV-13
Dimensions	20" x 22" x 2"
Drain Port Connection	3/4 Threaded NPT
Operating Temperature	56 F Min - 95 F Max

DIMENSIONS



FEATURES

+ **Patented M-CoRR Technology:** Multi-coil design achieves highest efficiencies available in the market
+ **Digital Onboard Control:** easy operation of your machine, with optional external control
+ **Superior MERV-13 Filtration:** Removes more harmful contaminants from the air, such as mold, bacteria and some viruses
+ **Integrated Hang Points** and handles allows for easy movement and flexible installation
+ **Filter Compensation Technology:** Accounts for static pressure change to ensure consistent, powerful airflow
+ **Easy Access Panel:** removable panel for easier in-place maintenance and serviceability

Specifications are subject to change without notice. Drawings are not to scale. *See manual for details on MCA/MOP.

Vertical Humidity Distribution Fans

Ventilation plays a vital role in modern greenhouses. The vertical air flow (VAF) fan produces an air current that is forced outward and downward along the roof and walls of the greenhouse, and then is pulled upward through the crop. Using this type of fan can lead to a better and more uniform climate and it can also lead to energy savings. VAF offers growers the opportunity to reduce the negative impacts of humidity in a simple and energy efficient way, and it is also easy to mount in a greenhouse and easy to maintain.

Specifications:

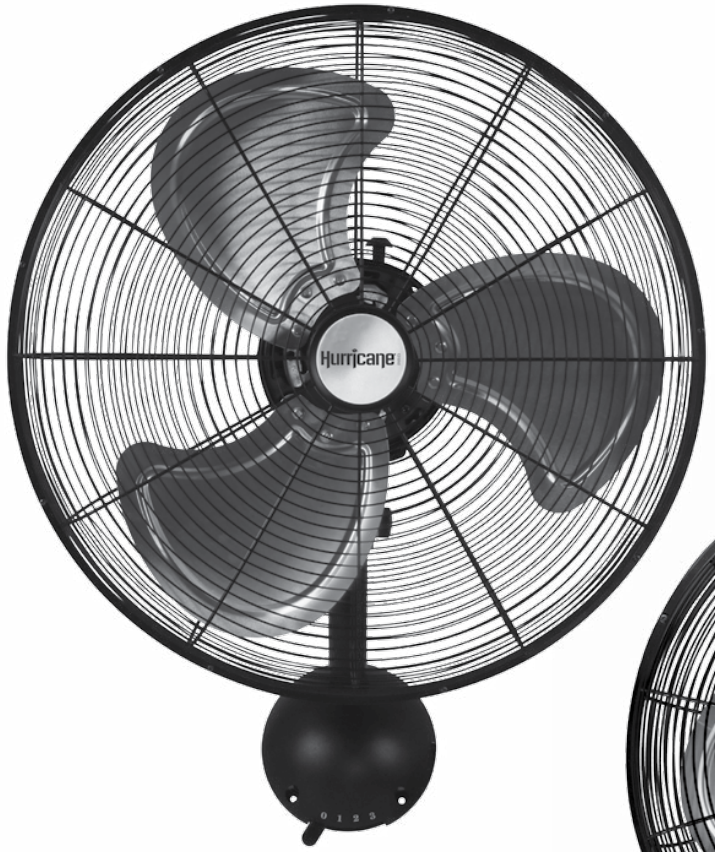
- Watts (High): 315
- 1/2 hp
- Width: 22 in. Depth: 26 in. Height: 22 in., Weight: 40 lbs.
- Blade size: 16 in.
- Up to 3,200 CFM
- Single phase

VOLTS - 115/230
AMPS - 3.9/1.95

SPECIFICATIONS

Hurricane® Pro High Velocity Oscillating Wall Mount Fans - 20 Inch and 16 Inch

Item #736474 & #736484



PART NUMBER	736474	736484
FAN DIAMETER	20 Inch	16 Inch
ETL LISTED	Yes	
Tested to UL Standard No. 507		
Tested to CSA Standard C22.2 No. 113		
VOLTAGE	120	
AMPS	1.20	0.53
WATTAGE	140	60
CFM RATING	4500	2400
RPM	1450	
POWER CORD	Integrated 6 foot	
WEIGHT	17.25 lbs.	14.1 lbs
WARRANTY	1 year	

Hurricane® PRO

This document is not intended to be used for installation purposes. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Job Name/Location: **Tag #:**

Date: For: ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)

LS180HEV2
Single Zone Mega Wall Mounted
Outdoor Unit (ODU) - LSU180HEV2, Indoor Unit (IDU) - LSN180HEV2

LG Life's Good

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 18,000 ~ 18,493
SEER2	19
EER2	12

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 19,000 ~ 22,997
Max. Heating @ Indoor 70°F DB Outdoor 19°F DB / 17°F WB	15,270
HSPF2	9.4

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions:
Indoor: 80°F DB / 67°F WB
Outdoor: 95°F DB / 75°F WB

Heating Nominal Test Conditions:
Indoor: 70°F DB / 60°F WB
Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V¹/Hz/Ø)	208-230/60/1

Outdoor Unit:

MOP (A)	20
MCA (A)	15
Cooling Rated Amps (A)	10.4
Heating Rated Amps (A)	10.4
Compressor (A)	10.0
Fan Motor (A)	0.4

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	1.5
Heating Power Input (kW)	1.583

Piping:

Liquid Line (in., O.D.)	1/4
Vapor Line (in., O.D.)	1/2
Additional Refrigerant (oz./ft.)	0.26
Min. / Max. Pipe Length (ft.)²	9.8 / 65.6
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	32.8

Features:

- 24-Hour on/off timer
- 2-Way (up / down) auto swing
- Auto changeover
- Auto restart
- Jet cool/Jet heat
- Condensate sensor connection
- Energy saving
- Inverter (variable speed compressor)
- Self-cleaning indoor coil
- Sleep mode
- Ultra quiet operation

Included Accessories:

- Wireless Remote Controller – AKB74955602

Optional Accessories:[10]

☐ MultiSITE™ CRC1 – PREMTBVC0
☐ MultiSITE CRC1+ – PREMTBVC1
☐ Simple Remote Controller – PREMTC00U
☐ Premium Remote Controller – PREMTA000
☐ Dry Contact - PDRYCB100/320/400

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14 ~ 118
Heating (°F WB)	14 ~ 65

Indoor Unit:

Cooling (°F WB)	53 ~ 75
Heating (°F DB)	60 ~ 86

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.975
ODU Sound Pressure (Cooling / Heating) (±1 dB[A])³	55 / 55
IDU Sound Pressure	
Cooling (H/M/L/Sleep) (±1 dB[A])³	48 / 43 / 38 / 32
Heating (H/M/L) (±1 dB[A])³	48 / 43 / 38 / 32
ODU Net / Shipping Weight (lbs.)	98.1 / 108
IDU Net / Shipping Weight (lbs.)	26 / 30
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cool/Heat)	6 / 6 / 6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max. Air Flow Rate (CFM)	1,730
IDU Air Flow	
Cooling, Max/H/M/L (CFM)	689 / 512 / 459 / 371
Heating, Max/H/M/L (CFM)	653 / 565 / 477 / 388
Dehumidification (pts./hr.)	3.38

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.
10. LSN***HEV2 9,000 and 12,000 Btu/h Mega indoor units are compatible with wired controllers from July 2019 production; LSN***HEV2 18,000 and 24,000 Btu/h Mega indoor units are compatible with wired controllers from January 22, 2020 production. LSN Mega indoor units are compatible with Dry Contacts from August 2019 production.

AHRI CERTIFIED® www.ahridirectory.org Unitary Small HP AHRI Standard 210/240 Certification applies only when the complete system is listed with AHRI.

For a complete list of available accessories, contact your LG representative.
For continual product development, LG reserves the right to change specifications without notice.

Job Name/Location: _____

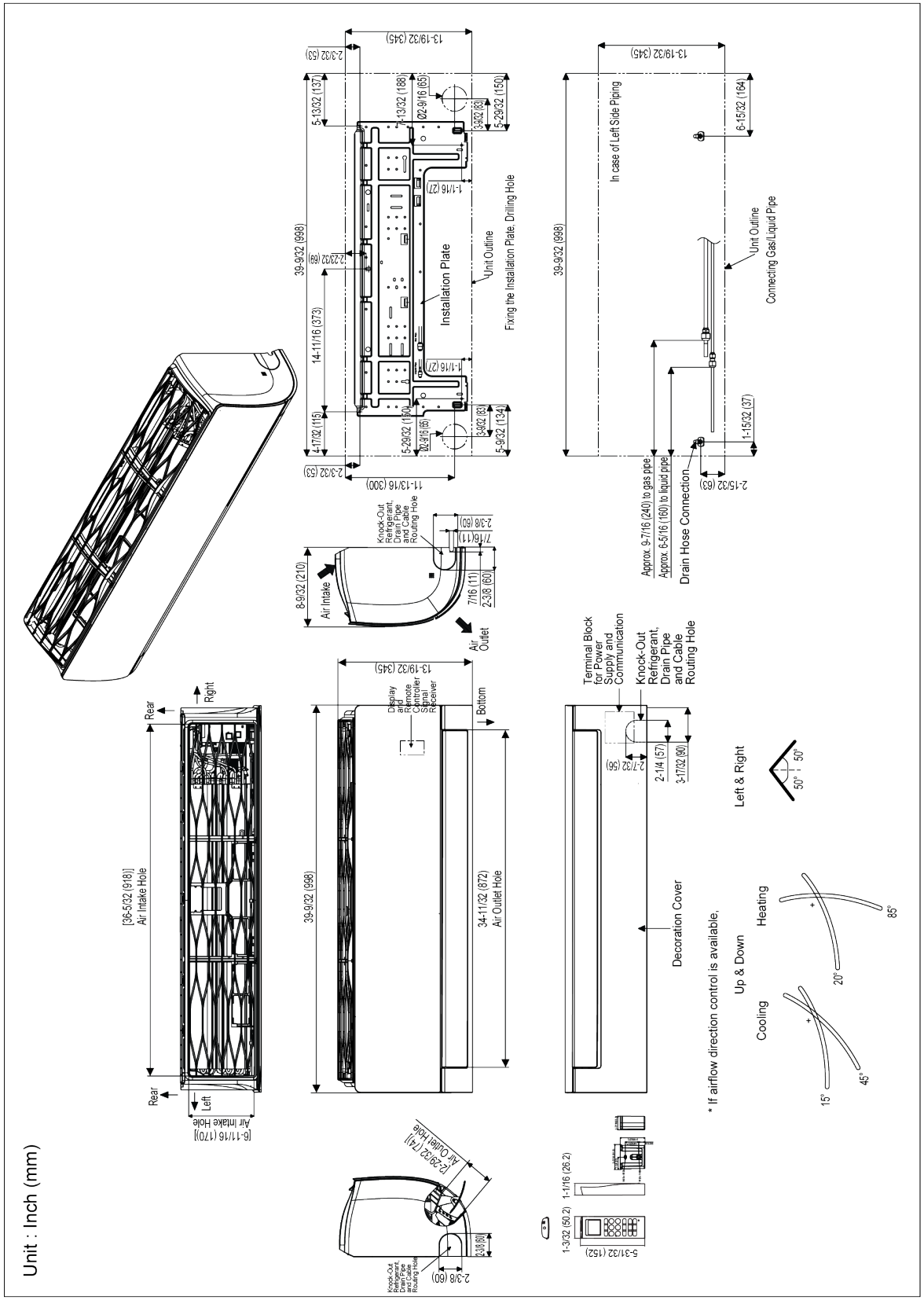
LS180HEV2
Single Zone Mega Wall Mounted
Outdoor Unit (ODU) - LSU180HEV2, Indoor Unit (IDU) - LSN180HEV2

LG Life's Good

Tag No.: _____

Date: _____

PO No.: _____



Job Name/Location: _____

LS180HEV2

Single Zone Mega Wall Mounted

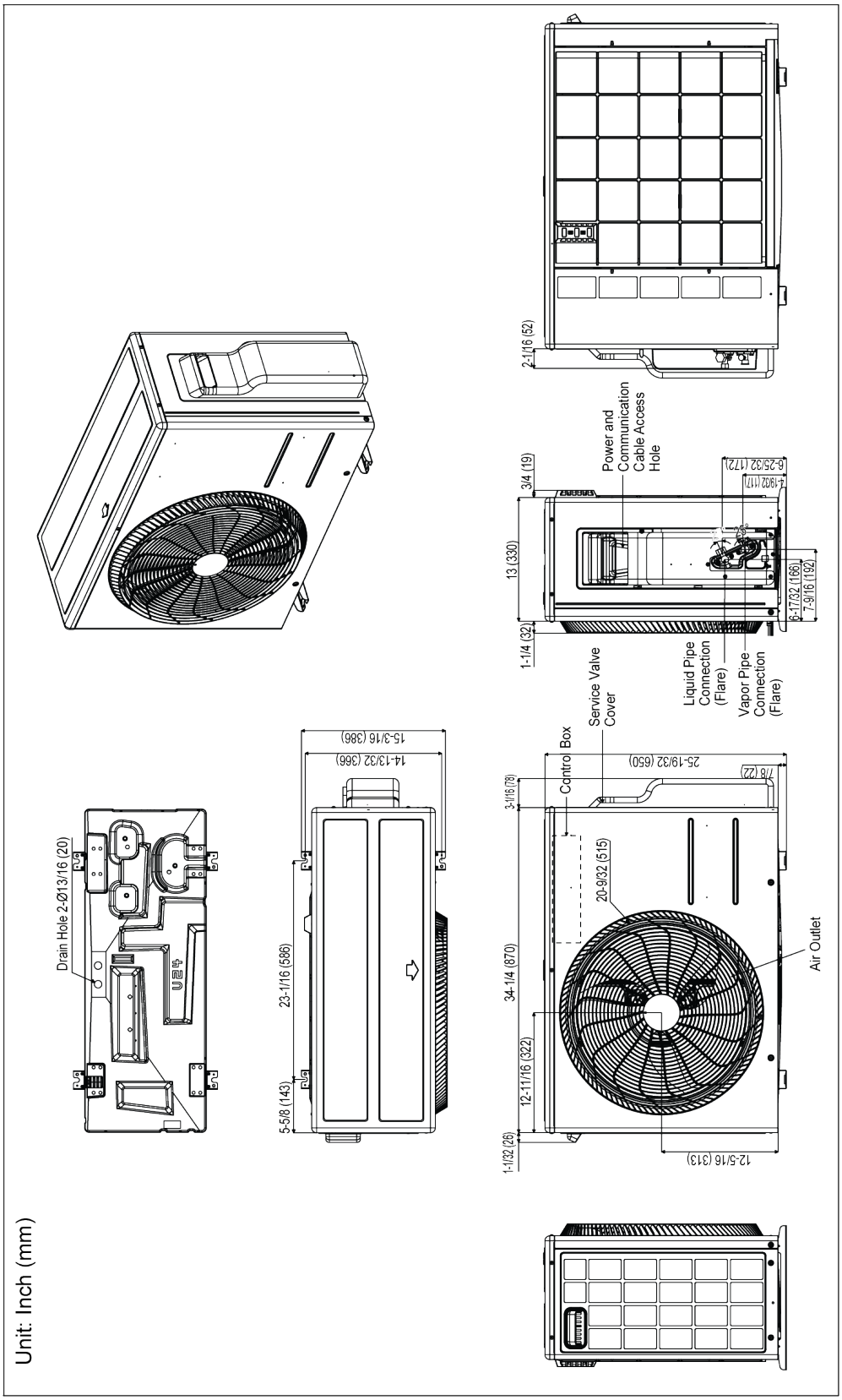
Outdoor Unit (ODU) - LSU180HEV2, Indoor Unit (IDU) - LSN180HEV2

LG Life's Good

Tag No.: _____

Date: _____

PO No.: _____



County

Page 1 of 1

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Owner's Well No. D9218

No. 820446

Date Work Began 6-3-99 Ended 6-4-99

Local Permit Agency El Dorado Environmental Management

Permit No. 1745 Permit Date 5-27-99

DWR USE ONLY — STATE WELL NO./STATION NO. — LATITUDE — LONGITUDE — APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD Rotary FLUID water

DEPTH FROM SURFACE Ft. to	Ft.	DESCRIPTION (Describe material, grain size, color, etc.)
0	23	Clay, DG
23	25	Loose rock
25	30	Dark talc
30	33	Firm DG
33	34	Brown DG, loose rock
34	40	Medium hard Granite
40	45	Firm hard DG
45	46	Hard granite
46	47	Firm DG
47	49	Hard rock
49	50	Firm DG
50	54	Hard granite
54	56	Soft DG
56	59	Hard rock
59	71	Firm DG, loose rock
71	73	Soft
73	75	Loose rock
75	84	Firm DG and clay
84	86	Hard
86	98	Firm DG, clay
98	99	Hard granite
99	134	Firm DG, clay
134	138	weathered granite
138	144	Fractured loose rock
144	260	Hard
260	270	Lime stone
270	300	Hard rock
		Last Bit 6 1/8
		Fracture- 85, 130, 140, 142
		145, 168, 170, 198, 230

TOTAL DEPTH OF BORING 300 (Feet)

TOTAL DEPTH OF COMPLETED WELL 300 (Feet)

WELL OWNER

Name Michel & Terri Prod'hon

Mailing Address 3592 Cedar Ravine

Placerville,CA. 95667

CITY STATE

WELL LOCATION

Address D'Agostini & Squirrel Hollow

City Mt. Aukum

County El Dorado

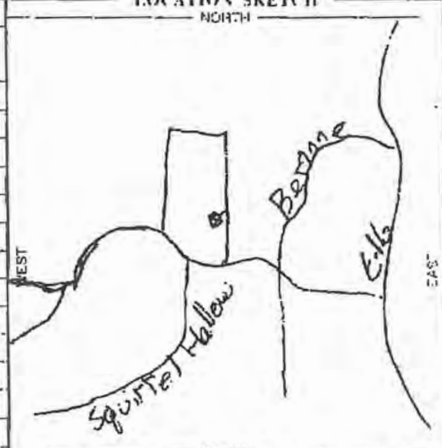
APN Book 046 Page 718 Parcel 17

Township ___ Range ___ Section ___

Latitude ___ NORTH Longitude ___ WEST

LOCATION SKETCH

NORTH



WEST — EAST

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR — Deepen — Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

X Domestic ___ Public

___ Irrigation ___ Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDIATION

OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 99 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 100 (Ft.) & DATE MEASURED 6-4-99

ESTIMATED YIELD * 51 (GPM) & TEST TYPE Air lift

TEST LENGTH 4+ (Hrs.) TOTAL DRAWDOWN ___ (Ft.)

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

CASING (S)

DEPTH FROM SURFACE Ft. to	Ft.	BORE-HOLE DIA. (Inches)	TYPE: BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	150	11	x				PVC	6	125	
150	200	6½		x			PVC	4	125	2 1/16
200	300	6 1/8		x			PVC	4	125	2 1/16

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to	Ft.	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	25	x			
25	140			x	Clean Fill
140	150	x			

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 Robert Dawson Drilling and Pumps (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

P.O. Box 1021 Shingle Springs,CA. 95682

ADDRESS CITY STATE ZIP

Signed [signature] 6-4-99 732870

WELL DRILLER/AUTHORIZED REPRESENTATIVE — DATE SIGNED — C-57 LICENSE NUMBER

DWR 188 REV. [illegible] IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

CCUP21-0004/Single Source Solutions

Well Report - Exhibit I

WELL DRILLING INSPECTION REQUEST

Permit # 1745

NAME: Shaw

LOCATION: D'Agostini

DATE: 7/8/99 TIME: AM 11 PM

REQUESTED BY:

DRILLER: Dawson

{ } PRELIMINARY SITE [X] WELL SEAL { } DESTRUCTION

[X] APPROVED { } DISAPPROVED

CASING DEPTH: 150' SEAL DEPTH:

OF BAGS: trailer load MATERIAL: concrete

REMARKS:

will top off 3'

R.E.H.S. CRM DATE: 7-8-99

rev.08/98well.insp

WELL PERMIT APPLICATION

EL DORADO COUNTY

ENVIRONMENTAL MANAGEMENT DEPT.
Division of Environmental Health
2850 Fairlane Ct.
Placerville, CA 95667 (530)621-5300

INSPECTION LINE: (530)621-4257 Prior to 7:00 a.m.

PERMIT NO: 1745

Receipt: 21365 **Check** 165.00 #3368
Amount: 165
Date: 5/27/99
By: DL

PARCEL NO. 046-710-17

Job Address/Location: D'Agostini & Squirrel Hollow

Driving Directions:

Owner: Cliff SHAW ***Phone:*** ***Parcel Size:*** 46.23 ACRES

Applicant (if different): Robert Dawson Drilling & Pumps ***Lot:*** #68

Address: ***Subdivision:***

Well Driller: Robert Dawson Drilling ***Phone:*** 6775301 ***Sec*** ***Twn*** ***Rng***

Address: P.O. Box 1071 Shingle Springs, CA. 95682

TYPE OF WORK (CHECK): ***New Well*** ☒ ***Deepen*** ☐ ***Destruction*** ☐ ***Reconstruction/Repair*** ☐

WELL USE (CHECK): ***Individual/Domestic*** ☒ ***Irrigation*** ☐ ***Public/Commercial*** ☐ ***Other*** ☐

PERMIT EXPIRES 1 YEAR FROM ISSUE DATE/NON TRANSFERRABLE TO ANOTHER DRILLER

ATTACH A COPY OF ASSESSOR'S PARCEL MAP OR ACCURATE PLOT PLAN:
INDICATE THE EXACT LOCATION OF WELL WITH RESPECT TO PROPERTY LINES, SEWER OR SEPTIC SYSTEMS, WATER COURSES, EXISTING WELLS, ROADS, EXISTING STRUCTURES, AND ADJACENT PROPERTY DEVELOPMENT.

NOTES:

1. An accurate scaled plot plan must accompany this application.
2. This application becomes a permit when approved by Division of Environmental Health.
3. The location of the well cannot be changed without prior approval of this office.
4. Contact El Dorado County Building Department for plumbing and electrical permits.
5. Drilling fluids shall be disposed of in a safe and sanitary manner.

DRILLER CERTIFICATION

I hereby certify that the proposed well will be constructed per applicable County and State Code and regulations for water wells, that I notify Environmental Health 24 hours prior to beginning drilling, and that within 30 days of the completion of drilling I will furnish this office a complete well log with accurate well yield.

Robert Dawson Drilling & Pumps
Well Driller:

State License: 732870 **Date:** 5/27/99

DISPOSITION OF APPLICATION

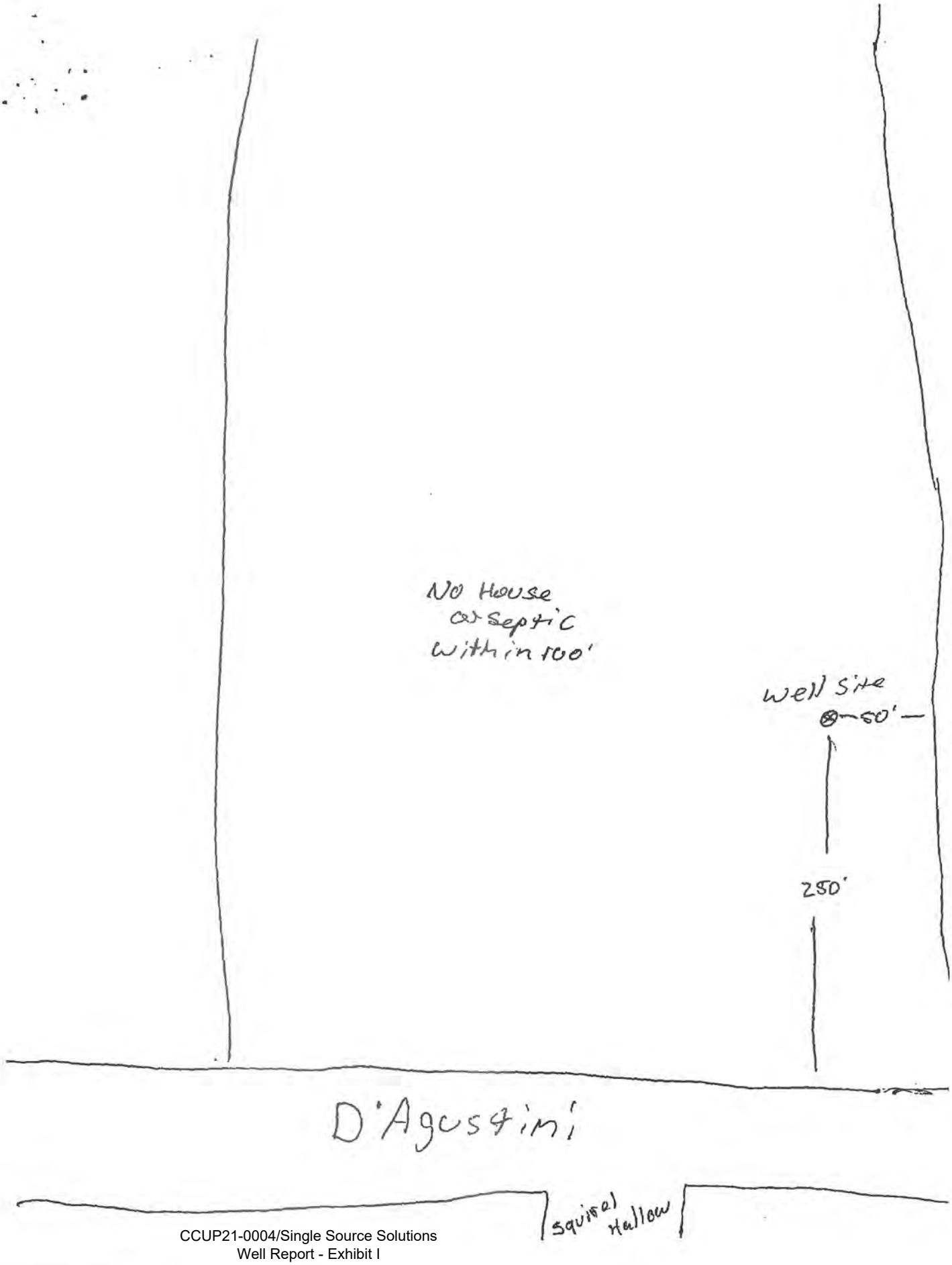
(For Health Officers use Only)

APPROVED ☒ **DENIED** ☐ **APPROVED WITH CONDITIONS** ☐

BY: C. Mears **DATE:** 6-2-99

FINALED BY: CKM **DATE:** 7-9-99

G:\forms\well.per4-98


No House
or Septic
within 100'
well site
50'
250'
D'Agostini
Squirrel Hollow

CCUP21-0004/**Single Source**
Solutions Exhibit **J** - Security Plan

130.41.100.4.F.13 The security plan for the operation that includes adequate lighting, security video cameras with a minimum camera resolution of 1080 pixels and 360 degree coverage, alarm systems, and secure area for cannabis storage. The security plan shall include a requirement that there be at least 90 calendar days of surveillance video (that captures both inside and outside images) stored on an ongoing basis and made available to the County upon request. The County may require real-time access of the surveillance video for the Sheriff's Office. The video system for the security cameras must be located in a locked, tamper-proof compartment. ***The security plan shall remain confidential.***