



## Holder Law Group

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May 3, 2022

VIA EMAIL ONLY (PLEASE CONFIRM RECEIPT)

County of Humboldt  
Humboldt County Planning Commission  
Hon. Alan Bongio, Chair  
[Planningclerk@co.humboldt.ca.us](mailto:Planningclerk@co.humboldt.ca.us)

Humboldt County Planning Department  
Attn: John Ford, Planning Director  
Desmond Johnston, Supervising Planner  
Email: [jford@co.humboldt.ca.us](mailto:jford@co.humboldt.ca.us);  
[djohnston@co.humboldt.ca.us](mailto:djohnston@co.humboldt.ca.us)

Re: **Further Follow Up Comments Concerning Blocksburg Family Farm, LLC Conditional Use Permits for Approximately Six Acres of Commercial Cannabis Propagation, Cultivation and Processing (PLN-12265-CUP; APN: 217-471-001)**

Citizens for a Sustainable Humboldt (“CSH”) and the Northcoast Environmental Center (“NEC”) once again object to the Planning Commission’s consideration of the above-referenced project for approval. Several critically important issues that CSH, NEC, and others have raised with respect to this Project’s unanalyzed and unmitigated potentially significant environmental impacts have still not been squarely addressed in the Initial Study / Mitigated Negative Declaration (“IS/MND”) for this Project or in the Staff Report and its attachments.

The Staff Report (1) asserts that well investigation standards do not apply to the Project’s wells and (2) sidesteps comments concerning the adequacy of the access road under the County’s SRA Fire Safe Regulations by referencing inapplicable state regulations.<sup>1</sup> Unfortunately, apart from these general references to two attachments, the staff report does not include an analysis or thoughtful explanation of why the sustained yield for the Project’s wells need not be investigated nor does it explain how the State’s fire safe regulations exempt the Project’s access roads from the County’s applicable regulatory requirements.

Instead of ignoring the comments concerning the untimely pump tests for the Project’s well, as was the case when staff last presented this Project for approval on the consent agenda in early March, the new staff report asserts that the County’s pump test standards do not apply to this well because it is used for agricultural purposes (citing and attaching as Exhibit 10 standards for domestic wells). In essence, staff is saying that they did not require a scientific

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<sup>1</sup> See Staff Report, p. 9, referring to Attachment 11; *see also* Attachment 11 to the Staff Report: copy of CalFire’s SRA Fire Safe Regulations.

investigation into well's sustained yield because they do not have to. There are several glaring problems with this approach:

- First, the fact that the County has standards for domestic wells does not eliminate the possibility of additional applicable standards for agricultural wells.<sup>2</sup>
- Second, the County documents cited in prior comments suggest that the County requirement to conduct pump tests in the dry season applies to ALL wells.<sup>3</sup>
- Third, the well driller that the County has looked to for expertise on this subject has opined that well production tests need to be conducted in the dry season, and, preferably, over multiple seasons, to confirm with certainty an aquifer is viable as a water source.<sup>4</sup>
- Fourth, this incomplete response ignores the fact that even if a project applicant strictly meets applicable County standards for testing well productivity, the project can still be found to cause significant impacts related to groundwater pumping.
- Fifth, this response disregards the County's independent duties to investigate applicants' water supply claims and protect public trust resources.<sup>5</sup>

Rather than heeding comments concerning the need to determine long-term sustained yield of the wells, County staff simply double-down on their common acceptance of short-duration pump tests that occurred at the end of the wet season.<sup>6</sup> In essence, staff's position is

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<sup>2</sup> In fact, the County has adopted regulatory standards for all wells. *See generally* Humboldt County Code ("HCC"), Title VI, Div. 3, Wells; *see also* HCC, § 631-10 [incorporating DWR Bulletin 74-81 into County well standards].

<sup>3</sup> *See, e.g., Exhibit A:* CDEH guidance document, Well Permits and Water Production ["All water production tests must be conducted during the dry season and be representative of the lowest annual water production anticipated from the source. The dry season testing period is **August 1 through September 30**"], emphasis added, bold in original.

<sup>4</sup> *See* Planning Commission meeting dated November 18, 2021, at: [https://humboldt.granicus.com/MediaPlayer.php?view\\_id=5&clip\\_id=1562](https://humboldt.granicus.com/MediaPlayer.php?view_id=5&clip_id=1562) [time/minute/second range, approx. 1:50:35 – 1:51:08]. Mr. Fisch is not a licensed hydrogeologist, and therefore lacks the required credentials to make an authorized determination concerning hydrologic connectivity. Nevertheless, this public testimony to Planning Commission from an experienced "expert" in his own right likely constitutes substantial evidence demonstrating the short pump tests conducted in the late spring /early summer for the Project's well were inadequate for determining long-term water supply sufficiency and reliability.

<sup>5</sup> *See Environmental Law Found. v. State Water Resources Control Bd.* (2018) 26 Cal.App.5th 844, 867-68.

<sup>6</sup> *See Exhibit B:* well logs for various cannabis projects where the short-duration pump tests were conducted in March through early June, within or towards the end of the wet season (when the maximum amount of water is likely percolating) and outside of the defined dry season.

that they did not require pump tests to be conducted in the dry season, as specified in other County documents and regulations, because they believe doing so is not mandatory.

Staff improperly rely on a definition of commercial cannabis production as “agricultural” to exempt the wells upon which these projects rely from sound investigation. This arbitrary distinction is used to avoid the County’s reasonable, science-based standards for determining sustained yield. However, for a variety of reasons, commercial cannabis cultivation is not simply an agricultural use, as evidenced by the complex regulatory regime that now applies to the industry at both the state and local levels.

Further, a six-acre commercial cannabis project, such as the project at issue here, has the potential to consume a substantial quantity of groundwater each year.<sup>7</sup> The Well Completion Report for this Project indicates that the air lift pump test was only conducted for 4 hours. With groundwater wells in mountainous terrain overlying fractured rock, such as the well at issue here, the Department of Water Resources recommends pump tests of much longer duration.<sup>8</sup> David Fisch, the well driller that County planning staff and decision makers have frequently relied upon on the subject of the sufficiency of groundwater supplies for commercial cannabis project recommends testing wells over in different seasons in order to confirm with greater certainty that the well is a viable water source for the project.<sup>9</sup> Rather than heed this advice, staff have accepted the Well Completion Report data (with short-duration pump tests performed at the end of the wet season, rather than in the dry season) as the sole evidence of the well’s productivity, exactly what Mr. Fisch advises against.

The Conditions of Approval do not include any requirement to install meters to monitor groundwater extraction by month, nor does it require reporting of monitoring results to the County. The Conditions of Approval also do not include a forbearance period for groundwater pumping. Because the long-term sustained yield of the Project’s well has not been determined using dry season data, monitoring and reporting requirements should apply as a matter of course. Forbearance should be required during the dry season. Alternatively, the County could

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<sup>7</sup> While the Staff Report asserts that the long-term water supply for the Project will be rainwater catchment, there is no assurance that groundwater will not be utilized in the dry season if the catchment ponds run dry. For this reason, a protective measure should be added to prohibit or substantially restrict groundwater pumping in summer and fall, as appropriate.

<sup>8</sup> See DWR, Bulletin 74-81 Introduction: “[I]n the hilly and mountainous “hard rock” areas of the State there are no defined aquifers and supplies are related to fracture patterns, the nature and extent of the soil mantle, faults, changes in stratigraphy, etc. In such areas the production potential of a well cannot be accurately assessed. Further, wells in these areas often exhibit a satisfactory initial production, which then declines due to poor recharge characteristics of the surrounding material. In such situations a longer than usual test, upwards of 12 to 24 hours (and longer) duration, may be desirable”, available at: <https://water.ca.gov/Programs/Groundwater-Management/Wells/Well-Standards/Combined-Well-Standards/Bulletin-74-81-Intro>, accessed 05/02/22.

<sup>9</sup> See generally Planning Commission meeting dated November 18, 2021, at: [https://humboldt.granicus.com/MediaPlayer.php?view\\_id=5&clip\\_id=1562](https://humboldt.granicus.com/MediaPlayer.php?view_id=5&clip_id=1562) [entire public testimony, time range, approx. 1:40:45 – 1:56:51]; see also *id.* [time range, approx. 1:50:35 – 1:51:08].

adopt a condition that restricts groundwater pumping if the well departs from equilibrium by more than a given percentage (e.g. if the well drops 10% below equilibrium, pumping must be suspended).<sup>10</sup> Instead, staff leaves it to the concerned public to recommend reasonable protective measures.

County staff's reluctance to regulate new wells proposed for cannabis projects is exacerbating, rather than limiting, the cumulative impacts of rampant groundwater extraction for the growing industry. The current drought is resulting in water supply shortfalls throughout the state, including in Humboldt County.<sup>11</sup> As has been widely reported for a number of years, scientists predict that such severe drought conditions will worsen with climate change.<sup>12</sup> In light of this evidence of potential water shortfalls, it is especially important for the water supply analysis for this and other large proposed projects be scientifically based, transparent, and sound.<sup>13</sup> Routinely failing to perform such an analysis conflicts with the County's duty to protect public trust resources. The analysis should be revised to consider the impacts associated with alternative water supplies that would be necessary if the project's well runs dry and rainfall catchment proves insufficient for the planned cultivation activities.

The Staff Report attempts to address our prior comments concerning the Project's compliance with the County's adopted SRA Fire Safe Regulations by citing to CalFire's SRA Fire Safe Regulations. Because the County has adopted its own version of the regulations, the

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<sup>10</sup> See Planning Commission meeting dated November 18, 2021, at: [https://humboldt.granicus.com/MediaPlayer.php?view\\_id=5&clip\\_id=1562](https://humboldt.granicus.com/MediaPlayer.php?view_id=5&clip_id=1562) [David Fisch's explanation of a potential mitigation measure presented to the Planning Commission], time/minute/second range, approx. 1:46:45 – 1:47:21].

<sup>11</sup> See Times-Standard, [Humboldt County's start to 2022 driest on record](https://www.times-standard.com/2022/03/13/humboldt-countys-start-to-2022-driest-on-record/), March 13, 2022, available at: <https://www.times-standard.com/2022/03/13/humboldt-countys-start-to-2022-driest-on-record/>, accessed 05/02/22; see also Times-Standard, [Humboldt County in extreme drought as April begins](https://www.times-standard.com/2022/03/31/humboldt-county-in-extreme-drought-as-april-begins/), March 31, 2022, available at: <https://www.times-standard.com/2022/03/31/humboldt-county-in-extreme-drought-as-april-begins/>, accessed 05/02/2022.

<sup>12</sup> See DWR website, [Climate Change and Water](https://water.ca.gov/Programs/All-Programs/Climate-Change-Program/Climate-Change-and-Water#:~:text=Climate%20change%20is%20expected%20to,river%20delivering%20water%20to%20California.), available at: <https://water.ca.gov/Programs/All-Programs/Climate-Change-Program/Climate-Change-and-Water#:~:text=Climate%20change%20is%20expected%20to,river%20delivering%20water%20to%20California.>, accessed 05/02/22; see also SJ Mercury News, [California drought conditions predicted to worsen in coming months, federal forecasters say](https://www.mercurynews.com/2022/03/17/california-drought-conditions-predicted-to-worsen-in-coming-months-federal-forecasters-say/), March 17, 2022, available at: <https://www.mercurynews.com/2022/03/17/california-drought-conditions-predicted-to-worsen-in-coming-months-federal-forecasters-say/>, accessed 05/02/22; see also National Geographic, [The drought in the western U.S. could last until 2030](https://www.nationalgeographic.com/environment/article/the-drought-in-the-western-us-could-last-until-2030), Feb. 14, 2022, available at: <https://www.nationalgeographic.com/environment/article/the-drought-in-the-western-us-could-last-until-2030>.

<sup>13</sup> Reliance on Well Completion Reports alone to determine sufficient groundwater supply is not scientifically sound and is therefore inadequate because, as Mr. Fisch states in his explanation to the Planning Commission last fall, "that Well Completion Report is only a snapshot of a moment in time, it is not a document to 'take to the bank' and say 'look this is my well it's going to last for 1,000 years.'" See Planning Commission meeting dated November 18, 2021, at: [https://humboldt.granicus.com/MediaPlayer.php?view\\_id=5&clip\\_id=1562](https://humboldt.granicus.com/MediaPlayer.php?view_id=5&clip_id=1562), time/minute/second range, approx. 1:50:01 – 1:50:15].



state's version are not relevant to the issue of access road adequacy in the County.<sup>14</sup> As previously explained, the Project's access road that does not satisfy the minimum standards of the County's SRA Fire Safe Regulations can exacerbate the risk of wildfire and can impact public services. For example, under the County's SRA Fire Safe Regulations, the standards for access road width apply regardless of whether the road is public or private, and turnarounds are required for both driveways and dead-end roads.<sup>15</sup>

Staff have once again presented new substantive analysis at the last minute, giving the public little time to review and weigh in on the analysis.<sup>16</sup> CSH and NEC exercise their right to comment on this new analysis and the purported adequacy of the IS/MND for this Project. Under CEQA and the Brown Act, the public is encouraged to participate in the decision-making process. Accordingly, CSH and NEC submit these comments for the Commissioners' consideration.

\* \* \*

As explained in CSH and NEC's Prior Comments, an EIR most likely must be prepared for this large-scale Project in a remote greenfield area.

Very Truly Yours,



Jason Holder

cc: (Via e-mail only)  
Client contacts

Attachments:

- Exh. A – CDEH guidance document, Well Permits and Water Production
- Exh. B – Well logs for various cannabis projects where the short-duration pump tests were conducted in March through early June

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<sup>14</sup> See Public Resources Code ("PRC"), § 4290; see also HCC, § 3111-2 ["[County SRA Fire Safe Regulations] constitute local alternative standards as authorized by Section 4290 of the Public Resources Code".]

<sup>15</sup> See Humboldt County SRA Fire Safe Regulations, Ord. 2540, §§ 3112-1, 3112-7.

<sup>16</sup> See Staff Report, pp. 8-9, new explanations for analysis, referencing new attachments to staff report.

**Division of Environmental Health**

100 H Street - Suite 100 - Eureka, CA 95501

Phone: 707-445-6215 - Toll Free: 800-963-9241

Fax: 707-441-5699

[envhealth@co.humboldt.ca.us](mailto:envhealth@co.humboldt.ca.us)**Well Permits and Water Production****Well Permits**

- California Water Well Standards and Humboldt County Code require wells to be constructed, altered or destroyed only by a contractor holding a C-57 license.
- As of February 13, 1990, permits are required for all wells constructed, altered or destroyed in Humboldt County. Permit applications can be obtained from the Division of Environmental Health (DEH) for proposed well work. DEH will inspect the well location prior to drilling, observe the sanitary seal around the well casing during construction, and issue the final permit approval when we can verify that work was completed according to California Water Well Standards and Humboldt County Code.
- A permit **cannot** be issued for well construction that was performed without prior DEH review, inspection and approval of the sanitary seal. While a previously unpermitted well cannot be retroactively permitted, an existing unpermitted well may nevertheless continue to be used under certain, case-by-case circumstances. The age, location and type of use (agricultural supply, individual supply, community supply and/or industrial supply) of each well is considered by DEH during project reviews. When potential competing water supply needs are identified by DEH in a project, the water producing capacity of the well or other water source may need to be calculated.

**Water Production Testing**

- When rural lands are subdivided, water production testing is required.
- All water production tests must be conducted during the dry season and be representative of the lowest annual water production anticipated from the source. The dry season testing period is **August 1 through September 30**.
- Water production tests for springs and streams must be conducted by a Licensed Well Driller, Licensed Land Surveyor, Registered Civil Engineer, or Registered Geologist.
- Water production tests for wells must be conducted by a Licensed Well Driller, Registered Civil Engineer, or Registered Geologist.
- Water quantity requirements for commercial, institutional, and industrial facilities are established by DEH on a project-specific basis.

For more details, you may request a copy of *Water Production Standards and Test Procedures* by contacting the Division of Environmental Health (DEH) at 707-445-6215, 800-963-9241 or by email at [ENVHEALTH@co.humboldt.ca.us](mailto:ENVHEALTH@co.humboldt.ca.us). It is also available on our webpage at: <http://www.humboldt.gov.org/DocumentCenter/Home/View/3266>.

State of California  
**Well Completion Report**  
 Form DWR 188 Submitted 6/10/2019  
 WCR2019-007960

Exhibit B

Owner's Well Number \_\_\_\_\_ Date Work Began 05/09/2019 Date Work Ended 06/03/2019  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17-1005 Permit Date 04/19/2017

Well Owner (must remain confidential pursuant to Water Code 13752)			
Name	<u>ROLLING MEADOW RANCH, INC., Andy Machata</u>		
Mailing Address	<u>3060 Airport West Drive</u>		
City	<u>Vero Beach</u>	State	<u>FL</u> Zip <u>32960</u>

Planned Use and Activity	
Activity	<u>New Well</u>
Planned Use	<u>Water Supply Irrigation - Agriculture</u>

Well Location			
Address	<u>2487 Mc Cann RD</u>		APN <u>217-181-028</u>
City	<u>Blocksburg</u>	Zip <u>95514</u>	County <u>Humboldt</u> Township <u>02 S</u>
Latitude	<u>40</u> <u>19</u> <u>28.9596</u> N	Longitude	<u>-123</u> <u>47</u> <u>52.3788</u> W
	Deg. Min. Sec.		Deg. Min. Sec.
Dec. Lat.	<u>40.324711</u>		Dec. Long. <u>-123.797883</u>
Vertical Datum	Horizontal Datum <u>WGS84</u>		Baseline Meridian <u>Humboldt</u>
Location Accuracy	Location Determination Method _____		Ground Surface Elevation _____
			Elevation Accuracy _____
			Elevation Determination Method _____

Borehole Information	
Orientation	<u>Vertical</u> Specify _____
Drilling Method	<u>Direct Rotary</u> Drilling Fluid <u>Air</u>
Total Depth of Boring	<u>270</u> Feet
Total Depth of Completed Well	<u>270</u> Feet

Water Level and Yield of Completed Well	
Depth to first water	<u>152</u> (Feet below surface)
Depth to Static	_____
Water Level	<u>148</u> (Feet) Date Measured <u>06/03/2019</u>
Estimated Yield*	<u>13</u> (GPM) Test Type <u>Air Lift</u>
Test Length	<u>4</u> (Hours) Total Drawdown <u>118</u> (feet)
*May not be representative of a well's long term yield.	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	5	over burden
5	20	loose sandstone
20	114	shale
114	246	sandstone shale mix
246	270	soft shale



Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	70	Blank	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563			
1	70	270	Screen	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563	Milled Slots	0.032	

Annular Material						
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description	
0	20	Bentonite	Other Bentonite		Sanitary Seal	
20	270	Filter Pack	Other Gravel Pack	3/8 Inch	Pea Gravel	

**Other Observations:**

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	270	10

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name	FISCH DRILLING		
Person, Firm or Corporation			
3150 JOHNSON ROAD	HYDEVILLE	CA	95547
Address		City	State Zip
Signed	<i>[Signature]</i>	06/10/2019	683865
C-57 Licensed Water Well Contractor		Date Signed	C-57 License Number

Attachments
Scan.pdf - Location Map

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
		N	W
Latitude Deg/Min/Sec			Longitude Deg/Min/Sec
TRS:			
APN:			



State of California  
**Well Completion Report**  
 Form DWR 188 Submitted 6/14/2019  
 WCR2019-008314

Owner's Well Number \_\_\_\_\_ Date Work Began 06/05/2019 Date Work Ended 06/14/2019  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17/1004 Permit Date 05/30/2017

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>ROLLING MEADOW RANCH, INC., Andy Machata</u>	Activity <u>New Well</u>
Mailing Address <u>3060 Airport West Drive</u>	Planned Use <u>Water Supply Irrigation - Agriculture</u>
City <u>Vero Beach</u> State <u>FL</u> Zip <u>32960</u>	

Well Location	
Address <u>0 Mc Cann RD</u>	APN <u>217-173-002</u>
City <u>Blocksburg</u> Zip <u>95514</u> County <u>Humboldt</u>	Township <u>01 S</u>
Latitude <u>40</u> <u>19</u> <u>53.256</u> <u>N</u> Longitude <u>-123</u> <u>45</u> <u>24.7716</u> <u>W</u>	Range <u>04 E</u>
Deg. Min. Sec.	Section <u>32</u>
Dec. Lat. <u>40.33146</u> Dec. Long. <u>-123.756881</u>	Baseline Meridian <u>Humboldt</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	
Orientation <u>Vertical</u> Specify _____	
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Air</u>	
Total Depth of Boring <u>240</u> Feet	
Total Depth of Completed Well <u>240</u> Feet	

Water Level and Yield of Completed Well	
Depth to first water <u>65</u> (Feet below surface)	
Depth to Static _____	
Water Level <u>34</u> (Feet) Date Measured <u>06/14/2019</u>	
Estimated Yield* <u>20</u> (GPM) Test Type <u>Air Lift</u>	
Test Length <u>4</u> (Hours) Total Drawdown <u>175</u> (feet)	
<small>*May not be representative of a well's long term yield.</small>	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	2	top soil
2	21	silty clay
21	43	silt stone
43	58	soft shale
58	213	sandstone shale mix
213	240	soft shale

### Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	60	Blank	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563			
1	60	240	Screen	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563	Milled Slots	0.032	

### Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Bentonite	Other Bentonite		Sanitary Seal
20	240	Filter Pack	Other Gravel Pack	3/8 Inch	Pea Gravel

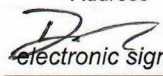
#### Other Observations:

#### Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	240	10

#### Certification Statement

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

Name FISCH DRILLING  
 Person, Firm or Corporation  
3150 JOHNSON ROAD HYDESVILLE CA 95547  
 Address City State Zip  
 Signed  06/14/2019 683865  
 C-57 Licensed Water Well Contractor Date Signed C-57 License Number

#### Attachments

Scan.pdf - Location Map

#### DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N	W
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Latitude Deg/Min/Sec

Longitude Deg/Min/Sec

TRS:

APN:



State of California  
**Well Completion Report**  
 Form DWR 188 Submitted 6/12/2019  
 WCR2019-008119

Owner's Well Number \_\_\_\_\_ Date Work Began 05/31/2019 Date Work Ended 06/05/2019  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17-1007 Permit Date 04/19/2017

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>ROLLING MEADOW RANCH, INC., Andy Machata</u>	Activity <u>New Well</u>
Mailing Address <u>3060 Airport West Drive</u>	Planned Use <u>Water Supply Irrigation - Agriculture</u>
City <u>Vero Beach</u> State <u>FL</u> Zip <u>32960</u>	

Well Location	
Address <u>0 Mc Cann RD</u>	APN <u>217-024-010</u>
City <u>Blocksburg</u> Zip <u>95514</u> County <u>Humboldt</u>	Township <u>01 S</u>
Latitude <u>40</u> <u>19</u> <u>44.1479</u> N Longitude <u>-123</u> <u>46</u> <u>57.7235</u> W	Range <u>03 E</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>36</u>
Dec. Lat. <u>40.32893</u> Dec. Long. <u>-123.782701</u>	Baseline Meridian <u>Humboldt</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	
Orientation <u>Vertical</u> Specify _____	
Drilling Method <u>Other - Under-Ream Down-Hole Hammer</u> Drilling Fluid <u>Air</u>	
Total Depth of Boring <u>200</u> Feet	
Total Depth of Completed Well <u>200</u> Feet	

Water Level and Yield of Completed Well	
Depth to first water <u>42</u> (Feet below surface)	
Depth to Static _____	
Water Level <u>30</u> (Feet) Date Measured <u>06/05/2019</u>	
Estimated Yield* <u>30</u> (GPM) Test Type <u>Air Lift</u>	
Test Length <u>4</u> (Hours) Total Drawdown <u>158</u> (feet)	
<i>*May not be representative of a well's long term yield.</i>	

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	4	top soil
4	21	silty clay
21	72	brown sandstone
72	105	soft shale
105	200	blue sandstone with clay layers



### Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	40	Blank	Low Carbon Steel	Grade: ASTM A53	0.188	6			
1	40	190	Screen	Low Carbon Steel	Grade: ASTM A53	0.188	6	Milled Slots	0.05	
1	190	200	Blank	Low Carbon Steel	Grade: ASTM A53	0.188	6			

### Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Bentonite	Other Bentonite		Sanitary Seal
20	200	Filter Pack	Other Gravel Pack	3/8 Inch	Pea Gravel

Other Observations:

### Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (inches)
0	200	10

### Certification Statement

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

Name FISCH DRILLING  
Person, Firm or Corporation

3150 JOHNSON ROAD HYDESVILLE CA 95547  
Address City State Zip

Signed *[Signature]* 06/12/2019 683865  
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

### Attachments

Scan.pdf - Location Map

### DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

N	W
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Latitude Deg/Min/Sec

Longitude Deg/Min/Sec

TRS:

APN:

State of California  
**Well Completion Report**  
 Form DWR 188 Complete 9/11/2018  
 WCR2018-005775

From PLN-11549-CUP

Owner's Well Number \_\_\_\_\_ Date Work Began 05/30/2018 Date Work Ended 05/30/2018  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 17/18-1752 Permit Date 05/15/2018

Well Owner (must remain confidential pursuant to Water Code 13752)			
Name	XXXXXXXXXXXXXXXXXXXX		
Mailing Address	XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX		
City	State	XX	Zip XXXXX

Planned Use and Activity	
Activity	<u>New Well</u>
Planned Use	<u>Water Supply Irrigation - Agriculture</u>

Well Location					
Address <u>20000 dyerville loop RD</u>			APN <u>216-174-010</u>		
City <u>garberville</u>	Zip <u>95542</u>	County <u>Humboldt</u>	Township <u>03 S</u>		
Latitude _____ N	Longitude _____ W	Range <u>04 E</u>	Section <u>35</u>		
Deg.    Min.    Sec.	Deg.    Min.    Sec.	Baseline Meridian <u>Humboldt</u>			
Dec. Lat. _____	Dec. Long. _____	Ground Surface Elevation _____			
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy _____			
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method _____			

Borehole Information	
Orientation <u>Vertical</u>	Specify _____
Drilling Method <u>Direct Rotary</u>	Drilling Fluid <u>Air</u>
Total Depth of Boring <u>200</u>	Feet
Total Depth of Completed Well <u>200</u>	Feet

Water Level and Yield of Completed Well			
Depth to first water	<u>100</u>	(Feet below surface)	
Depth to Static			
Water Level	<u>90</u>	(Feet)	Date Measured <u>05/30/2018</u>
Estimated Yield*	<u>10</u>	(GPM)	Test Type <u>Air Lift</u>
Test Length	<u>1</u>	(Hours)	Total Drawdown _____ (feet)
*May not be representative of a well's long term yield.			

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	20	top soil
20	40	clay
40	60	brown rock
60	80	blue sandstone
80	120	fractured blue sandstone
120	160	shale
160	180	red rock
180	200	clay

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	200	Blank	PVC	OD: 4.500 in.   Thickness: 0.337 in.	0.337	4.5	Bridge Slot	0.032	0-180 blank 4.5inch casing180-200 .032 factory screen perf. pipe

Annular Material				
Depth from Surface Feet to Feet	Fill	Fill Type Details	Filter Pack Size	Description
0	25	Bentonite	Non Hydrated Bentonite	3/8
0	200	Filter Pack	Other Gravel Pack	3/8 pea gravel

**Other Observations:**

Borehole Specifications		
Depth from Surface Feet to Feet	Borehole Diameter (inches)	
0	200	8

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name	BUSHNELL ENTERPRISES		
	Person, Firm or Corporation		
649 BEAR CREEK ROAD	GARBERVILLE	CA	95542
Address	City	State	Zip
Signed	<i>electronic signature received</i>	07/23/2018	403708
	C-57 Licensed Water Well Contractor	Date Signed	C-57 License Number

DWR Use Only									
CSG #	State Well Number			Site Code	Local Well Number				
				N					W
Latitude Deg/Min/Sec					Longitude Deg/Min/Sec				
TRS:									
APN:									



State of California  
**Well Completion Report**  
 Form DWR 188 Submitted 5/12/2019  
 WCR2019-006521

Owner's Well Number 1 Date Work Began 05/07/2019 Date Work Ended 05/09/2019  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 18/19-0291 Permit Date 10/03/2019

Well Owner (must remain confidential pursuant to Water Code 13752)		Planned Use and Activity	
Name	<u>LIVING GREENS FARMS LLC., TIFFANY CHARBONNEAU</u>	Activity	<u>New Well</u>
Mailing Address	<u>P.O BOX 2067</u>	Planned Use	<u>Water Supply Irrigation - Agriculture</u>
City	<u>REDWAY</u>		
	State <u>CA</u> Zip <u>95560</u>		

Well Location			
Address <u>28180 ALDERPOINT RD</u>		APN <u>217-255-005</u>	
City <u>BLOCKSBURG</u>	Zip <u>95514</u>	County <u>Humboldt</u>	Township <u>02 S</u>
Latitude <u>40 17 27.2957 N</u>	Longitude <u>-123 37 52.6587 W</u>	Range <u>05 E</u>	Section <u>17</u>
Deg. <u>40</u> Min. <u>17</u> Sec. <u>27.2957</u>	Deg. <u>-123</u> Min. <u>37</u> Sec. <u>52.6587</u>	Baseline Meridian <u>Humboldt</u>	
Dec. Lat. <u>40.2909155</u>	Dec. Long. <u>-123.6312941</u>	Ground Surface Elevation <u>2152</u>	
Vertical Datum _____	Horizontal Datum <u>WGS84</u>	Elevation Accuracy <u>10 Ft</u>	
Location Accuracy _____	Location Determination Method _____	Elevation Determination Method <u>GPS</u>	

Borehole Information	
Orientation <u>Vertical</u>	Specify _____
Drilling Method <u>Downhole Rotary Hammer</u>	Drilling Fluid <u>Air</u>
Total Depth of Boring <u>230</u>	Feet
Total Depth of Completed Well <u>230</u>	Feet

Water Level and Yield of Completed Well	
Depth to first water <u>170</u>	(Feet below surface)
Depth to Static _____	
Water Level <u>165</u>	(Feet) Date Measured <u>05/09/2019</u>
Estimated Yield* <u>15</u>	(GPM) Test Type <u>Air Lift</u>
Test Length <u>4</u>	(Hours) Total Drawdown _____ (feet)
<b>*May not be representative of a well's long term yield.</b>	

Geologic Log - Free Form		
Depth from Surface Feet to Feet		Description
0	2	TOP SOIL LIGHT BROWN
2	30	ROCK HARD GRAY IN COLOR
30	65	ROCK HARD MULTI COLOR GRAY AND BLACK
65	125	ROCK VERY HARD LIGHT GRAY
125	170	ROCK DARK GRAY
170	230	MULTI COLOR ROCK WATER BEARING

Casings										
Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If any (Inches)	Description
1	0	150	Blank	PVC	OD: 4.500 In.   Thickness: 0.337 In.	0.337	4.5			
1	150	210	Screen	PVC	OD: 4.500 In.   Thickness: 0.337 In.	0.337	4.5	Milled Slots	32	.032 SLOT
1	210	230	Blank	PVC	OD: 4.500 In.   Thickness: 0.337 In.	0.337	4.5			W/ 4.5" CAP

Annular Material					
Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	25	Bentonite	Non Hydrated Bentonite	3/8 BENTONITE CHIPS	ADDED WATER WHILE DUMPING CHIPS
25	230	Filter Pack	Other Gravel Pack	#6 SILICA GRAVEL	2 YRDS #6 SILICA GRAVEL

**Other Observations:**

Borehole Specifications		
Depth from Surface Feet to Feet		Borehole Diameter (Inches)
0	230	10

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name <u>VICS WELL DRILLING INC</u>			
Person, Firm or Corporation			
<u>3807 SIERRA HWY UNIT #6</u>	<u>ACTON</u>	<u>CA</u>	<u>93510</u>
Address		City	State Zip
Signed <u>electronic signature received</u>	<u>05/12/2019</u>	<u>886439</u>	
C-57 Licensed Water Well Contractor		Date Signed	C-57 License Number

Attachments
PAGE 1 PERMIT.jpeg - Permit
PAGE 1 DRILLERS REPORT.jpeg - Other
PAGE 2 PLOT PLAN.jpeg - Location Map
PAGE 2 PERMIT.jpeg - Permit
PAGE 1 PLOT PLAN.jpeg - Location Map
PAGE 2 DRILLERS REPORT.jpeg - Other

DWR Use Only			
CSG #	State Well Number	Site Code	Local Well Number
		N	W
Latitude Deg/Min/Sec		Longitude Deg/Min/Sec	
TRS:			
APN:			



State of California  
**Well Completion Report**  
 Form DWR 188 Submitted 3/12/2020  
 WCR2020-003554

Owner's Well Number \_\_\_\_\_ Date Work Began 03/05/2020 Date Work Ended 03/12/2020  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 19/20-0612 Permit Date 02/04/2020

Well Owner (must remain confidential pursuant to Water Code 13752)	Planned Use and Activity
Name <u>Soran Anderson</u>	Activity <u>New Well</u>
Mailing Address <u>278 Riverview Rd</u>	Planned Use <u>Water Supply Irrigation - Agriculture</u>
City <u>Garberville</u> State <u>CA</u> Zip <u>95542</u>	

Well Location	
Address <u>2557 Blue Rock RD</u>	APN <u>033-130-002</u>
City <u>Garberville</u> Zip <u>95542</u> County <u>Humboldt</u>	Township <u>05 S</u>
Latitude <u>40 3 30.5855 N</u> Longitude <u>-123 45 31.9427 W</u>	Range <u>04 E</u>
Deg. Min. Sec. Deg. Min. Sec.	Section <u>05</u>
Dec. Lat. <u>40.058496</u> Dec. Long. <u>-123.758873</u>	Baseline Meridian <u>Humboldt</u>
Vertical Datum _____ Horizontal Datum <u>WGS84</u>	Ground Surface Elevation _____
Location Accuracy _____ Location Determination Method _____	Elevation Accuracy _____
	Elevation Determination Method _____

Borehole Information	Water Level and Yield of Completed Well
Orientation <u>Vertical</u> Specify _____	Depth to first water <u>165</u> (Feet below surface)
Drilling Method <u>Direct Rotary</u> Drilling Fluid <u>Air</u>	Depth to Static _____
Total Depth of Boring <u>280</u> Feet	Water Level <u>156</u> (Feet) Date Measured <u>03/12/2020</u>
Total Depth of Completed Well <u>280</u> Feet	Estimated Yield* <u>7</u> (GPM) Test Type <u>Air Lift</u>
	Test Length <u>4</u> (Hours) Total Drawdown <u>115</u> (feet)
	*May not be representative of a well's long term yield.

Geologic Log - Free Form		
Depth from Surface	Feet to Feet	Description
0	4	top soil
4	17	silty clay
17	56	soft brown sandstone
56	115	hard serpentine
115	243	blue green sandstone
243	280	serpentine shale mix

### Casings

Casing #	Depth from Surface Feet to Feet		Casing Type	Material	Casings Specifications	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if any (Inches)	Description
1	0	100	Blank	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563			
1	100	280	Screen	PVC	OD: 5.563 in.   SDR: 21   Thickness: 0.265 in.	0.265	5.563	Milled Slots	0.032	

### Annular Material

Depth from Surface Feet to Feet		Fill	Fill Type Details	Filter Pack Size	Description
0	20	Bentonite	Other Bentonite		Sanitary Seal
20	280	Filter Pack	Other Gravel Pack	3/8 Inch	Pea Gravel


Other Observations:

### Borehole Specifications

Depth from Surface Feet to Feet		Borehole Diameter (Inches)
0	280	10

### Certification Statement

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

Name FISCH DRILLING  
 Person, Firm or Corporation  
3150 JOHNSON ROAD HYDESVILLE CA 95547  
 Address City State Zip  
 Signed  03/12/2020 683865  
*electronic signature received* Date Signed C-57 License Number  
C-57 Licensed Water Well Contractor

### Attachments

scan.pdf - Location Map

### DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number

										N
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Latitude Deg/Min/Sec

										W
--	--	--	--	--	--	--	--	--	--	---

Longitude Deg/Min/Sec

TRS:

APN: