



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem Oregon 97301-1271  
(503) 986-0900  
www.wrd.state.or.us

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# Application for Limited Water Use License

SALEM, OR

License No.: LL1726

**Applicant Information**

NAME Surprise Valley Electrification Corp.; Attn. Lynn Culp		PHONE (HM)	
PHONE (WK) 530.233.3511	CELL 530.640.2666	FAX 530.233.2199	
ADDRESS 516 US Hwy 395 E			
CITY Alturas	STATE CA	ZIP 96101	E-MAIL * bradsvec@frontier.com; lynnsvec@frontier.com

**Agent Information**

NAME		PHONE	FAX
ADDRESS			CELL
CITY	STATE	ZIP	E-MAIL *

I (We) make application for a Limited License to use or store the following described surface waters or groundwater – not otherwise exempt, or to use stored water of for a use of a short-term or fixed-duration:

- SOURCE(S) OF WATER:** 2 Wells a tributary of \_\_\_\_\_
- AMOUNT OF WATER** to be diverted;  
Maximum and instantaneous rate (cubic feet or gallons per minute): 3000 gpm  
Total volume (gallons or acre-feet): 4838 Ac-Ft annually. If water is to be used from more than one source, give the quantity from each: SVE 1 1200gpm; SVE 2 2300 gpm. Although the total adds up to 3500 gpm, both wells will not be run at full capacity together. Plant capacity is 3000 gpm.
- INTENDED USE(S) OF WATER:** (check all that apply)  
 Road construction or maintenance  
 General construction  
 Forestland and rangeland management; or  
 Other: Industrial Use/Power Development from geothermal fluid pumped from these wells.

- DESCRIPTION OF PROPOSED PROJECT:** Include a description of the place of use as shown on the accompanying site map, the method of water diversion, the type of equipment to be used (including pump horsepower, if applicable), length and dimensions of supply ditches and pipelines;  
 Geothermal fluid will be pumped from two wells known as SVE1 and SVE2. Both have turbine pumps, SVE1 is 200HP, SVE2 is 300 HP. The geothermal fluid will be supplied to the generation plant through 12" and 16" pipe line, approximatley 2600 ft in length. The geothermal fluid, which is non-consumptively used, will pass through plant vaporizer where energy is removed to make power, then the fluid will be delivered to injection well. Fluid never leaves pipe or vaporizer.

- PROJECT SCHEDULE:** (List day, month, and year)  
 Date water use will begin: When Plant resumes operation.  
 Date water use will be completed: When Permit granted  
 Months of the year water would be diverted and used: Year Round; January-December  
 If for other than irrigation from stored water, how and where will water be discharged after use:  
This is a non-consumptive use. Water will be injected into injection well at depth of 2400-2700 ft.

Bradley A Kresge  
Applicant Signature

Bradley A. Kresge - General Manager  
Print Name and title if applicable

11/29/17  
Date

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**PLEASE READ CAREFULLY**

**NOTE:** A completed water availability statement from the local watermaster, Land Use Information Form completed by the local Planning Department, fees and site map meeting the requirements of OAR 690-340-030 must accompany this request. The fee for this request is **\$280** for the first point of diversion plus **\$30** for each additional point of diversion. Please review the Department's fee schedule to view fees required to request a limited license for Aquifer Storage and Recovery testing purposes or for Artificial Groundwater Recharge testing purposes.

**Failure to provide any of the required information will result in return of your application.** The license, if granted, will not be issued or replaced by a new license for a period of more than five consecutive years. The license, if granted, will be subordinate to all other authorized uses that rely upon the same source, or water affected by the source, and may be revoked at any time it is determined the use causes injury to any other water right or minimum perennial streamflow.

If water source is well, well logs or adequate information for the Department to determine aquifer, well depth, well seal and open interval, etc. are required. The licensee shall indicate the intended aquifer. If for multiple wells, each map location shall be clearly tied to a well log.

If a limited license is approved, the licensee shall give notice to the Department (Watermaster) at least 15 days in advance of using the water under the Limited License and shall maintain a record of use. The record of use shall include, but need not be limited to, an estimate of the amount of water used, the period of use and the categories of beneficial use to which the water is applied. During the period of the Limited License, the record of use shall be available for review by the Department upon request.

*\*A summary of review criteria and procedures that are generally applicable to these applications is available at: <http://www.oregon.gov/owrd/pages/pubs/forms.aspx>*

**Mapping Requirements (OAR 690-340-0030):**

- (1) A request for a limited license shall be submitted on a form provided by the Water Resources Department, and shall be accompanied by the following:
  - a. A site map of reproducible quality, drawn to a standard, even scale of not less than 2 inches = 1 mile, showing:
    - i. The locations of all proposed points of diversion referenced by coordinates or by bearing and distance to the nearest established or projected public land survey corner;
    - ii. The general course of the source for the proposed use, if applicable;
    - iii. Other topographical features such as roads, streams, railroads, etc., which may be helpful in locating the diversion points in the field.

**REMARKS:**

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For WRD Use Only
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LL-726

# Land Use Information Form



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, Oregon 97301-1266  
(503) 986-0900  
www.wrd.state.or.us

## NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form **must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed.** The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that **your application will not be approved without land use approval.**

**This form is NOT required if:**

- 1) Water is to be diverted, conveyed, **and/or** used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, **and all** of the following apply:
  - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
  - b) The application involves a change in place of use only;
  - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; **and**
  - d) The application involves irrigation water uses only.

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## NOTE TO LOCAL GOVERNMENTS

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The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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# Land Use

## Information Form



Oregon Water Resources Department  
 725 Summer Street NE, Suite A  
 Salem, Oregon 97301-1266  
 (503) 986-0900  
 www.wrd.state.or.us

Applicant: Surprise Valley Electrification Corp Attn: Lynn Culp  
First Last

Mailing Address: 516 US Hwy 395 E

Alturas | CA | 96101 Daytime Phone: 530.233.3511  
City State Zip

### A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼-¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
See Attached Table						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Lake County

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### B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water   
  Water Right Transfer   
  Permit Amendment or Groundwater Registration Modification  
 Limited Water Use License   
  Allocation of Conserved Water   
  Exchange of Water

Source of water:  Reservoir/Pond     Ground Water     Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 3000     cubic feet per second     gallons per minute     acre-feet

Intended use of water:  Irrigation     Commercial     Industrial     Domestic for \_\_\_\_\_ household(s)  
 Municipal     Quasi-Municipal     Instream     Other Power Development

Briefly describe:  
 SVEC drilled two geothermal production wells in 2011/12 for generation of electricity. Well SVE-1 produces up to 1,200 gpm and SVE 2 produces up to 2,300 gpm. The geothermal water is pumped from these wells into the power plant and then is reinjected back into the system through the 2700 foot deep injection well (SVE-3). Although the combined flow adds up to more than 3000 gpm, they will not both operate simultaneously at full capacity because the power plant capacity is 3000 gpm.

**Note to applicant:** If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department. See bottom of Page 3. →

## For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

**Please check the appropriate box below and provide the requested information**

Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): \_\_\_\_\_

Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
<i>CUP - See flow 1256-CUP</i>	<i>Art. 27</i>	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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Name: *Darwin Johnson* Title: *Planning Director*  
 Signature: *[Signature]* Phone: *541-947-6036* Date: *1 Nov 2017*  
 Government Entity: *Lane Co. Planning Dept*

**Note to local government representative:** Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

**Receipt for Request for Land Use Information**

Applicant name: \_\_\_\_\_  
 City or County: \_\_\_\_\_ Staff contact: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_

# ATTACHMENT – TABLE

## A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>SW NE</u>	<u>1300</u>		<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>SE NE</u>	<u>1300</u>		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>SE NW</u>	<u>1300</u>	_____	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>NE SW</u>	<u>1300</u>		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>NW SW</u>	<u>1300</u>	_____	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>23</u>	<u>NE SE</u>	<u>1300</u>		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>24</u>	<u>SW NW</u>	<u>1300</u>		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>
<u>33 S</u>	<u>18 E</u>	<u>24</u>	<u>NW SW</u>	<u>1300</u>		<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input type="checkbox"/> Used	<u>Industrial/Power Development</u>

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Geo-thermal  
Pumping well

**This page to be completed by the local Watermaster.**

**WATER AVAILABILITY STATEMENT**

Name of Applicant: Surprise Valley Electrification Corp Limited License Number: LI-1726

1. To your knowledge, has the stream or basin that is the source for this application ever been regulated for prior rights?

Yes  No

If yes, please explain:

Yearly + Senior out stream Rights

2. Based on your observations, would there be water available in the quantity and at the times needed to supply the use proposed by this application?

Yes  No

If all water is re-injected

3. Do you observe this stream system during regular fieldwork?

Yes  No

If yes, what are your observations for the stream?

Gage # 10384000

4. If the source is a well and if WRD were to determine that there is the potential for substantial interference with nearby surface water sources, would there still be ground water and surface water available during the time requested and in the amount requested without injury to existing water rights?

Yes  No  N/A

What would you recommend for conditions on a limited license that may be issued approving this application?

All geothermal water pumped must be re-injected  
my approval is contingent upon approval from Groundwater Section

5. Any other recommendations you would like to make?

flowmeters on all Pumping well + injection well  
Totalizing + Instantaneous Read

Signature B. Meyer WM District #: 12 Date: 12/18/2017

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