3

Application No. G- 19043

Permit No. _____

Certificate No. _____

Name G-19043
By Colahan Enterprises, Inc.
Address c/o Erin Douglas
45190 HWY 31
Paisley, OR 97636

Priority 11/23/2020

County Lake WM# 12

FEES PAID

Date	Amount	Receipt No.
11/23/2020	$3610.00	1339991
	Cert. Fee	

Date

DENIED _____

MISFILED _____

WITHDRAWN _____

CANCELLED _____

Volume	Page

FEES REFUNDED

Date	Amount	Receipt No.

RELATED FILES

_____

_____

_____

_____

DEVELOPMENT Date

Completion _____

Extended to _____

_____

Final Proof received _____

Proposed Cert. Mailed _____

ASSIGNMENTS

Date	To Whom	Address

REMARKS _____

_____

_____

_____

_____

_____

_____

_____

MAP LOCATION _____

Rev. 04/03

Mailing List for IR Copies

Application G-19043

IR Date: March 21, 2025

Copies Mailed

By: JM
(SUPPORT STAFF)

On: 3.21.2025
(DATE)

Original and map mailed to applicant:

COLAHAN ENTERPRISES, INC.
ERIN DOUGLAS
45190 HWY 31
PAISLEY OR 97636

Sent via auto email:

1. Applicant – lizzymongo@hotmail.com
2. Agent – newtonjim@hotmail.com
3. WRD – Watermaster #12, Matt Anderson
4. WRD – Tom Skiles, SCR
5. WRD – SW Section
6. ODFW
7. DEQ

Copies sent to:

1. WRD – File G-19043
2. Lake County Planning Department (by email)

Application Specialist: Adam Frederick

Oregon
Tina Kotek, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone 503 986-0900
Fax 503 986-0904
www.oregon.gov/owrd

Water Right Application Initial Review

March 21, 2025

COLAHAN ENTERPRISES, INC.
ERIN DOUGLAS
45190 HWY 31
PAISLEY OR 97636

Reference: Application G-19043

This document is to inform you of the preliminary analysis of the water-use permit application and to describe your options. In determining whether an application may be approved, the Water Resources Department (Department) must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information supplied, the Department has made the following preliminary determinations:

Preliminary Determinations under Oregon Administrative Rule (OAR) 690-310-0080:

1. Application G-19043 proposes the appropriation of 1.66 cubic feet per second (CFS) of water from Well 1 (LAKE 1627/LAKE 4448), SVE-1 (LAKE 52530/LAKE 52866), SVE-2 (LAKE 52529/LAKE 52865), and Little Hot Well (LAKE 1628/LAKE 1626/LAKE 52582) in Chewaucan River Basin for supplemental irrigation of 317.4 acres for the irrigation season of each year.

2. The proposed use is not prohibited by law or rule except where otherwise noted below.

3. The standard season for the appropriation of groundwater is limited to March 1 through October 31 of each year. The period of use will be limited to March 1 through October 31 on any permit that may be issued under this application.

4. The application materials describe that the applicant intends for this application to make up a deficiency in rate under water right Certificate 93927 for supplemental irrigation. This application requests to increase the authorized rate from the same points of appropriation as Certificate 93927

Please note: Applications are evaluated using the rules in effect at the time the application is accepted as complete. To view the rules relevant for this application, please visit: https://secure.sos.state.or.us/oard/displayCompilations and navigate to Chapter 690 (Water Resources Department).

without increasing the authorized volume, which is limited under Certificate 93927 to 3.0 acre-feet per acre.

5. The application proposed a rate of appropriation that is higher than the general basin-wide standard; however, information was submitted that demonstrates the need for the higher rate. ORS 537.621(4) allows the Department to authorize the requested rate except upon specific findings related to the application to support a determination that a lesser amount is needed.

6. Irrigation is allowed under the Goose and Summer Lakes Basin Program (OAR 690-513-0050(2)).

7. The proposed groundwater use is not within a designated critical groundwater area. OAR 690-310-0080(1)(a).

8. An assessment of groundwater availability has been completed by the Department. A copy of this assessment is in the file and can be viewed on the Department's website. Groundwater for the proposed use is not over-appropriated. OAR 690-310-0080(1)(b); OAR 690-300-0010(57).

9. The Department has determined that the proposed groundwater use from Little Hot Well will have the potential for substantial interference (PSI) with Chewaucan River. OAR 690-009-0040. Therefore, in accordance with OAR 690-300-0010(57)(a) and OAR 690-400-0010(11)(a)(B), surface water availability must be considered. During the period of use requested, surface water is available (at an 80% exceedance probability) from March 1 through May 31 and September 1 through October 31 of each year. **Therefore, water is not available for the proposed use from Little Hot Well**. OAR 690-310-0080(1)(b); OAR 690-300-0010(57); OAR 690-410-0070. See the **Additional Information Opportunity** section below for more information.

10. If properly conditioned (and if authorized), the proposed use of groundwater will not injure other water rights.

11. The proposed use is not located within or above any state or federal scenic waterway.

12. Because this application will have an impact on surface water flows where sensitive, threatened, or endangered (STE) fish species may be present, this application will be reviewed by the Oregon Department of Fish and Wildlife and the Oregon Department of Environmental Quality. This review may cause your application to be limited, conditioned, or denied. Depending on the proposed use, you may be required to mitigate for potential impacts identified in the review. See the **Division 33 Review** section below for more information.

13. The Department has determined that Well 1 (LAKE 1627/LAKE 4448) and Little Hot Well (LAKE 1628/LAKE 1626/LAKE 52582) do not meet current minimum well construction standards. For Well 1, the seal does not extend to the appropriate depth and the well head is flush with land surface. To meet minimum well construction standards, the well must be resealed with an approved grout to a minimum depth of 302 feet below ground surface and the well head must be extended so that it is at least one-foot above land surface. For Little Hot Well, the seal does not extend to the appropriate depth. To meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 311 feet below ground surface. See the **Minimum Well Construction Standards – Repair Required** section below for more information.

14. Documentation has been submitted from the relevant land-use planning jurisdiction that indicates the proposed use is allowed outright.

15. See **Additional Information Required** section below for deficiencies with the application.

Summary of Preliminary Determinations
The appropriation of 1.66 CFS of water from SVE-1 (LAKE 52530/LAKE 52866) and SVE-2 (LAKE 52529/LAKE 52865) in Chewaucan River Basin for supplemental irrigation of 317.4 acres from March 1 through October 31 of each year may be allowable. See Additional Information Required section below for more details. **The appropriation of 1.66 CFS of water from Well 1 (LAKE 1627/LAKE 4448) and Little Hot Well (LAKE 1628/LAKE 1626/LAKE 52582) in Chewaucan River Basin for supplemental irrigation of 317.4 acres from March 1 through October 31 of each year is not allowable. Please see Minimum Well Construction Standards – Repair Required and Additional Information Opportunity sections below for more details.**

Additional Information Opportunity:

The proposed groundwater use from Little Hot Well was determined to have potential for substantial interference (PSI) with surface water, and surface water is not available for the full period of time requested (Preliminary Determination #9). Pursuant to OAR 690-300-0010(57)(b), a water right permit applicant has the opportunity to provide the following information for the Department to consider:

- Information that demonstrates the proposed use only requires water (and can make beneficial use of water) during the period of time when water is available for further appropriation, being March 1 through May 31 and September 1 through October 31 of each year; or
- Information that demonstrates the applicant can obtain water from an alternate source during the period when water is not available, being June 1 through August 31.

If you are interested in pursuing the opportunity described above, please submit the requested information no later than **April 24, 2025.** If you need more time, you may request an administrative hold for up to an additional 180 days. You must submit the request in writing, stating how much more time is needed and why you need additional time. If an administrative hold is granted, your application will not be processed further until the requested information is received or the extended deadline has passed.

Minimum Well Construction Standards – Repair Required:

Prior to the issuance of any Proposed Final Order that may recommend approval, evidence demonstrating compliance with well construction standards must be submitted and approved by the Department. In repairing the well(s), you should work closely with the Department and/or a licensed well constructor to ensure that repairs are carried out in a manner that will not violate well construction or other rules. You are encouraged to contact Tommy Laird of the Department's Well Construction and Compliance Section at 503-302-8618 to determine how to proceed.

Please submit this information no later than April 24, 2025. If you are unable to submit the information listed above by this date, you may request an administrative hold for up to an additional 180 days. You must submit the request in writing, stating how much more time is needed and why you need additional time. If an administrative hold is granted, your application will not be processed further until the requested information is received or the extended deadline has passed.

Please also note that regardless of the outcome of this application, you will need to work with the Department to either repair or abandon the well(s) to comply with the minimum standards for the construction, conversion, alteration, maintenance, and abandonment of water supply wells in order to protect the state's groundwater supply (OAR 690-200).

Additional Information Required:

Additional information is required to process your application prior to issuance of any Proposed Final Order that may recommend approval. Please provide the following:

A. The map submitted does not meet the requirements of OAR 690-310-0050(4)(b) and (c). Please provide a map that shows the location of all main canals, ditches, pipelines, or flumes from the proposed points of appropriation to the proposed place of use.

Please submit this information no later than April 24, 2025. If you are unable to submit the information listed above by this date, you may request an administrative hold for up to an additional 180 days. You must submit the request in writing, stating how much more time is needed and why you need additional time. If an administrative hold is granted, your application will not be processed further until the requested information is received or the extended deadline has passed.

If we do not receive the information requested above or a request for an administrative hold by the above date, the Department may reject the application.

Public Comment:

Public interest issues and/or public comments will be addressed as the Department prepares a Proposed Final Order. If significant public interest issues are identified, they could have an impact on the eventual outcome of the application.

Division 33 Review:

The Department's Division 33 administrative rules (OAR 690-033) establish additional procedures and standards to aid the Department in determining whether a proposed use will impair or be detrimental to the public interest with regard to STE fish species. This Initial Review does not address the potential impact that your proposed use may have on these species.

You may be required to mitigate for potential impacts identified in the Division 33 review process. Mitigation is often complicated, time consuming, and expensive, and may include, but is not limited to, actions such as replacing the proposed amount of water within the impacted reach through purchasing or transferring an existing water right. Following the Initial Review, you will be notified if mitigation is required due to impacts to STE fish species.

If you choose to pursue mitigation, you will likely need to place your application on administrative hold in order to explore options. There will be an additional fee of $790 required with any mitigation proposal submitted.

At this time, you must decide whether to proceed or to withdraw the application.

- To Proceed - If you choose to proceed with the application, you do not have to notify the Department. The application will be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a Proposed Final Order.
- To Withdraw - You may withdraw the application and receive a refund (minus a $310 processing fee). You must notify the Department **in writing** by **April 4, 2025**. For your convenience you may use the enclosed "STOP PROCESSING" form.

If a permit is issued, it will likely include the following conditions:

1. Construction of the well shall begin within five years of the date of permit issuance. The deadline to begin construction may not be extended. This permit is subject to cancellation proceedings if the construction deadline to begin is missed.

2. If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may not be valid, unless the Department authorizes the change in writing.

3. **Water Use Measurement, Recording, and Reporting:**

   A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter at each point of appropriation. The permittee shall maintain the device in good working order.

   B. The permittee shall allow the watermaster access to the device; provided however, where any device is located within a private structure, the watermaster shall request access upon reasonable notice.

   C. The permittee shall keep a complete record of the volume of water used each month, and shall submit an annual report which includes the recorded water-use measurements to the Department annually, or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.

   D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

4. **Groundwater Level Measurement, Reporting, and Shut-Off Condition:**

For each well on this authorization, beginning on the permit signature date for existing wells or in the year well construction is completed for new wells, and each year thereafter, the permit holder must report a static water-level measurement ("measurement") taken in March. The measurement is required whether the well is used or not. If pumping is to commence following completion of the well and prior to the next March, then a measurement must be made at least one week following well completion and before pumping commences.

Measurements must be properly reported within 30 days of measurement using forms specified by the Department. A measurement will be properly reported if the submission includes all required information as listed in the document attached. Measurements must be made with equipment that is accurate to the standards specified in Oregon Administrative Rule (OAR) 690-217-0045. Measurements must be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed land surveyor, licensed well constructor, pump installer licensed by the Construction Contractors Board, or Department staff. The Department is not responsible for regular measurement of the static water level, but Department staff may measure the well during the normal course of groundwater level monitoring or to confirm the submitted measurement(s).

For each well on this permit, the Department will establish a reference groundwater level using the best available data. The reference level is intended to represent the highest elevation (shallowest depth) static water level that has been measured or can be reasonably estimated to have existed within each well at any time before its reference level is set. If Annual High Water Levels have been increased measurably by human activity, then the Department may set a different reference level using best available information. If the permit holder fails to measure and report the static water level within 12 months of permit issuance, or of completion of the well(s), then Department staff will estimate the static water level using available data, including measurements in surrounding wells. In case the permit is amended or the subsequent certificate is transferred, the Department may establish a new reference level for any new or additional wells under new permits or certificates issued under this right. The reference level for a new or additional well should reflect the highest static water level in that well or, if that measurement occurred after the time represented by the original reference level, then the water level that would have been measured in that well, if the well existed and was measured at the time represented by the original reference level.

All water use authorized under this permit must immediately stop if any of the following occur:

A. Any annual high elevation static groundwater level in any well on this permit declines 25 or more feet below the reference level for that well, or

B. Groundwater levels are not measured and properly reported as specified above for any completed well that is authorized on the permit for two consecutive years, or

C. Hydraulic interference contributes to a decline of 25 or more feet in any neighboring well with senior priority, at any time during the year.

The Department will determine when any of the above conditions have occurred and may order the permit holder to stop all water use under this permit. The permit holder is also responsible for stopping all water use if they become aware that any of the conditions have occurred, even without notice from the Department. Following such a stop, water use under this permit will not be allowed and may only resume once the permit holder receives notice from the Department. If the permit holder fails to stop use, then the Department may take control of the controlling works of any wells authorized under this permit and may reduce the amount of groundwater pumped until the unlawful use is eliminated.

The permit holder acknowledges that one or more of the conditions requiring stoppage of use may occur prior to any use of any well on this permit.

The Department may allow the permit holder to pause annual water level measurement and reporting requirements from some of the permitted wells if measurements from those wells are redundant with other data being collected by the Department. The permit holder must receive written notification of such an allowance before stopping measurements. If this happens, the Department may reinstate the measurement requirements at any time.

5. **Dedicated Measuring Tube:**

   Wells with pumps shall be equipped with a minimum 3/4-inch diameter, unobstructed, dedicated measuring tube pursuant to Figure 200-5 in OAR 690-200. If a pump has been installed prior to the issuance of this permit, and if static water levels and pumping levels can be measured using an electrical tape, then the installation of the measuring tube can be delayed until such time that water levels cannot be measured or the pump is repaired or replaced.

6. **Special Condition:**

   All wells shall be continuously cased and sealed from land surface through the entire thickness of the predominantly basin-fill sedimentary unit into the predominantly volcanic rock and sediment unit to a depth in consultation with the Department well inspector staff.

7. **Well Identification Tag:**

   Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

The water source identified in the application may be affected by an Agricultural Water Quality Management Area Plan. These plans are developed by the Oregon Department of Agriculture (ODA) with the cooperation of local landowners and other interested stakeholders, and help to ensure that current and new appropriations of water are done in a way that does not adversely harm the environment. You are encouraged to explore ODA's website at www.oregon.gov/ODA to learn more about the plans and how they may affect the proposed water use.

For Further Information:

Feel free to contact me at Adam.M.Frederick@water.oregon.gov or 971-707-8400 if you have any questions regarding the contents of this letter or the application. Please include the application number in all correspondence. General questions about water rights and water use permits should be directed to our customer service staff at 503-986-0900. When corresponding by mail, please use this address: Adam Frederick, Oregon Water Resources Department, 725 Summer St NE Ste A, Salem OR 97301-1266. Our fax number is 503-986-0901.

Sincerely,

Adam Frederick

Adam Frederick
Water Right Application Specialist
Oregon Water Resources Department

Enclosures: Application Process Description
Stop Processing Request Form

G-19043
WAB: 31300602
Proposed to Deny

APPLICATION FACT SHEET

Application File Number: G-19043

Applicant: COLAHAN ENTERPRISES, INC. AND ERIN DOUGLAS

County: LAKE

Watermaster: MATT A. ANDERSON, #12, SCR

Priority Date: NOVEMBER 23, 2020

Source: WELL 1 (LAKE 1627/LAKE 4448), SVE-1 (LAKE 52530/LAKE 52866), SVE-2 (LAKE 52529/LAKE 52865), AND LITTLE HOT WELL (LAKE 1628/LAKE 1626/LAKE 52582) IN CHEWAUCAN RIVER BASIN

Use: SUPPLEMENTAL IRRIGATION OF 317.4 ACRES

Quantity: 1.66 CUBIC FEET PER SECOND

Period of Use: MARCH 1 THROUGH OCTOBER 31

Basin Name & Number: GOOSE AND SUMMER LAKES, #13

WAB: CHEWAUCAN R > L ABERT - AT MOUTH

Well Location(s):

POA Name	Twp	Rng	Mer	Sec	Q-Q	Measured Distances
WELL 1 (LAKE 1627/LAKE 4448)	33 S	18 E	WM	23	NW SW	1680 FEET NORTH AND 1240 FEET EAST FROM SW CORNER, SECTION 23
SVE-1 (LAKE 52530/LAKE 52866)	33 S	18 E	WM	23	NW SW	2090 FEET NORTH AND 1275 FEET EAST FROM SW CORNER, SECTION 23
SVE-2 (LAKE 52529/LAKE 52865)	33 S	18 E	WM	23	SW NE	2665 FEET NORTH AND 1725 FEET WEST FROM SE CORNER, SECTION 23
LITTLE HOT WELL (LAKE 1628/LAKE 1626/LAKE 52582)	33 S	18 E	WM	23	SE NE	310 FEET NORTH AND 1270 FEET WEST FROM E1/4 CORNER, SECTION 23

Place of Use:

Twp	Rng	Mer	Sec	Q-Q	Acres
33 S	18 E	WM	13	SW SW	13.8
33 S	18 E	WM	14	SE SE	15.8
33 S	18 E	WM	23	NE NE	41.6
33 S	18 E	WM	23	NW NE	38.5
33 S	18 E	WM	23	SW NE	36.7
33 S	18 E	WM	23	SE NE	37.7
33 S	18 E	WM	23	NE NW	37.3
33 S	18 E	WM	23	SE NW	37.3
33 S	18 E	WM	23	NE SE	0.4
33 S	18 E	WM	24	NW NW	39.8
33 S	18 E	WM	24	SW NW	18.5

PUBLIC NOTICE DATE: March 25, 2025

14 DAY STOP PROCESSING DEADLINE DATE: April 4, 2025

30 DAY COMMENT DEADLINE DATE: April 24, 2025

APPLICATION PROCESS DESCRIPTION FOR GROUNDWATER, SURFACE WATER AND REGULAR RESERVOIR APPLICATIONS

In order to use the waters of Oregon, an application must be submitted and a permit obtained from the Water Resources Department. The water must be used for beneficial purpose without waste. For more information about water right topics, weekly public notice, forms and fees please visit our website at: **www.oregon.gov/owrd**

1. ***Pre-application considerations***
   - Follow instructions in the application packet.
   - If you have questions about completing an application or would like to arrange a pre-application conference contact the Department's Water Rights Customer Service Group at (503) 986-0900.
2. ***Application filing***
   - Application with fee is received by the Department.
   - Department determines completeness of application.
   - If use is not allowed by statute (ORS 538), the application and fees are returned to the applicant.
   - An incomplete application and fees are returned to the applicant.
   - Only a complete application receives a tentative priority date, is assigned a caseworker, and moves forward for processing.
3. ***Initial Review (IR)***
   - Caseworker reviews application by considering basin plans, water availability, statutory restrictions, and all other appropriate factors.
   - Caseworker sends IR report to Applicant.
   - Four days after date of the IR, it is included in Department's weekly Public Notice.
   - Public comments must be submitted within 30 days after the Public Notice.
4. ***Proposed Final Order (PFO)***
   - Caseworker evaluates application against required criteria and develops draft permit, if appropriate.
   - PFO includes instructions for filing of protests.
   - Caseworker considers public comments and mails PFO to Applicant.
   - The PFO is included in Department's weekly Public Notice.
   - Public protests to the PFO must be submitted within 45 days after the Public Notice.
5. ***Final Order (FO)***
   - If no protest is filed, Final Order is issued.

   The protest process

   If one or more protests are filed, the process consists of:
   - settlement discussion;
   - contested case hearing;
   - Proposed Order;
   - period of time to file exceptions; or
   - possible hearing by Water Resources Commission.
   - Final Order is issued.

Permit holder responsibilities

- Comply with all water use conditions of the permit.
- Advise Department of address change or assignment to new permit holder.
- If need arises, request extension of time or authorize cancellation of permit.
- Submit timely claim of beneficial use (COBU) to the Department.
- Most permits require COBU to be prepared by a Certified Water Right Examiner.
- Permits may be canceled by the permit holder or by the Department for failure to comply with or one or more permit conditions.

STOP PROCESSING REQUEST FORM

FOR GROUNDWATER, SURFACE WATER AND REGULAR RESERVOIR APPLICATIONS

- Stop processing deadline is within 14 days of Initial Review.

Applicant notification to withdraw Water Right Application **G-19043.**

After reviewing the Initial Review for my application, I request that processing be stopped, and fees be refunded (minus a $310 processing fee). I understand that without a valid permit, I may not legally use the water as requested in my application.

Signature _____ Date _____

Signature _____ Date _____

Under ORS 537.150(5) and 537.620(5), timely submission of this request authorizes that the water right application process be stopped, and all filing fees (except $310 processing fee) be returned.

- This notice must be received by the Water Resources Department no later than:

April 4, 2025

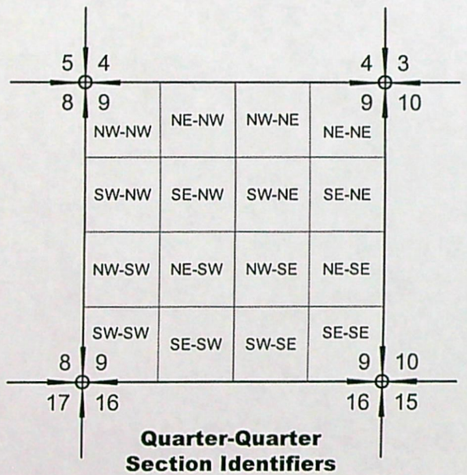
- Return the notice to:

OWRD, Water Right Services Division
STOP PROCESSING
725 Summer Street, NE - Suite A
Salem, OR 97301-1266

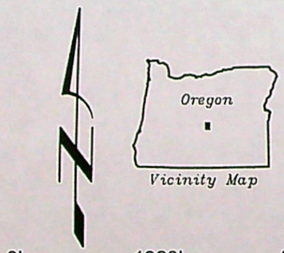
GROUNDWATER MAP
TAX LOT 203, 801, 802 & 1300
T.33S., R.18E., W.M., Lake County, Oregon

NOTES
1. This map was prepared for the purpose of identifying the location of water rights only and is not intended to provide legal dimensions or locations of property ownership lines.

LEGEND
- Proposed Supplemental Irrigation for Primary Certificate 82231
- Proposed Supplemental Irrigation for Primary Certificate 81169
- Proposed Supplemental Irrigation for Primary Certificate 64777
- Proposed Supplemental Irrigation for Primary Certificate 64776
- Proposed Supplemental Irrigation for Primary Certificate 82232
- ▲S1 Location of Sump Pumps
- Buried Pipe Line
- X Reference Point Locations
- SVE 1 Well Locations

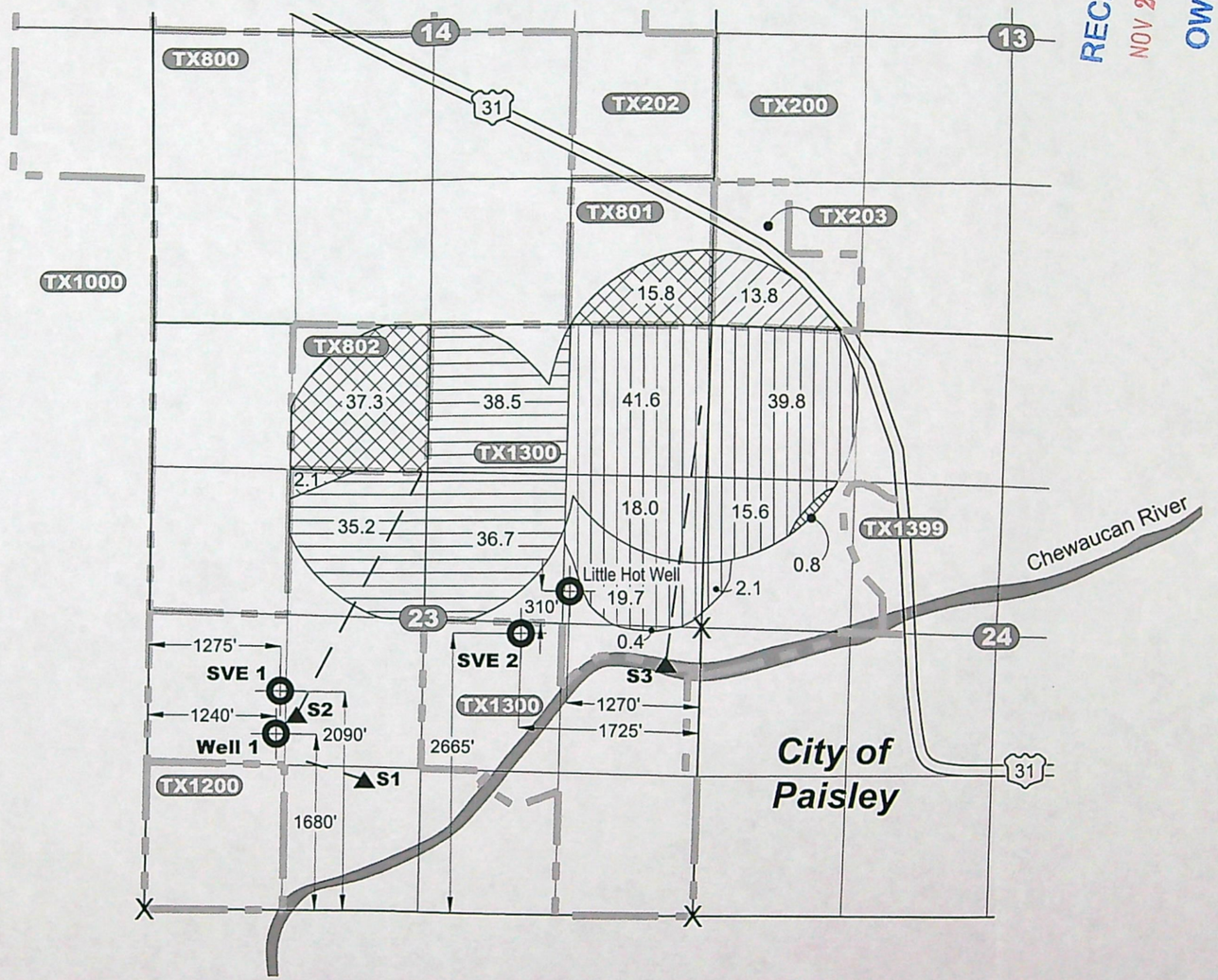


Quarter-Quarter Section Identifiers



0' 1320' 2640'

SCALE: 1" = 1320'



Application For a Permit to Use Goundwater

Colahan Ranch Enterprises, Inc.

Goose & Summer Lakes Basin - Lake County, Oregon

PROJECT NO. CG 1020-101

FIGURE 1

DATE: APR 2020

DRAWN BY: R2D

DESIGNED BY: J. Newton

CASCADE GEOENGINEERING
360.907.4162
cascadegeoengineering.com

F:\CG_Projects\CG-1020 Colahan\W1020101_F1-GWMap 19:08 10/31/2019 SC

Application for a Permit to Use

Groundwater

OREGON WATER RESOURCES DEPARTMENT

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant

NAME			PHONE (HM)
COLAHAN ENTERPRISES, INC./ ERIN DOUGLAS			541-943-3280
PHONE (WK)	CELL 541-410-4968		FAX
ADDRESS 45190 HWY 31			
CITY PAISLEY	STATE OR	ZIP 97636	E-MAIL* lizzymongo@hotmail.com

Organization

NAME			PHONE	FAX
COLAHAN ENTERPRISES, INC. /ERIN DOUGLAS			541-943-3280	
ADDRESS 45190 HWY 31				CELL 541-410-4968
CITY PAISLEY	STATE OR	ZIP 97636	E-MAIL* lizzymongo@hotmail.com	

Agent – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME			PHONE	FAX
JIM NEWTON/CASCADE GEOENGINEERING, LLC			(360) 907-4162	
ADDRESS 21145 SCOTTSDALE DRIVE				CELL
CITY BEND	STATE OR	ZIP 97701	E-MAIL* NEWTONJIM@HOTMAIL.COM	

Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the Department electronically. (Paper copies of the proposed and final order documents will also be mailed.)

RECEIVED
NOV 23 2020
OWRD

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

I (we) affirm that the information contained in this application is true and accurate.

Applicant Signature	Print Name and Title if applicable	Date
Erin K Douglas	Erin K Douglas / Pres.	4-29-2020
Applicant Signature	Print Name and Title if applicable	Date

For Department Use: App. Number: _____

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

☒ YES, there are no encumbrances.
☐ YES, the land is encumbered by easements, rights of way, roads or other encumbrances.

☐ NO, I have a recorded easement or written authorization permitting access.
☐ NO, I do not currently have written authorization or easement permitting access.
☐ NO, written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
☐ NO, because water is to be diverted, conveyed, and/or used only on federal lands.

Affected Landowners: List the names and mailing addresses of all owners of any lands that are not owned by the applicant and that are crossed by the proposed ditch, canal or other work, even if the applicant has obtained written authorization or an easement from the owner. *(Attach additional sheets if necessary).*

Legal Description: You must provide the legal description of: 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map.

Lake County Tax Map T33S, R18E, WM, Tax Lots 203, 801, 802, and 1300

SECTION 3: WELL DEVELOPMENT

		IF LESS THAN 1 MILE:	
WELL NO.	NAME OF NEAREST SURFACE WATER	DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
Well 1	Chewaucan River	1,700 FT	80 FT
SVE-1	Chewaucan River	1,900 FT	70 FT
SVE-2	Chewaucan River	800 FT	70 FT
LITTLE HOT WELL	Chewaucan River	800 FT	70 FT

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials *(attach additional sheets if necessary)*.

See Attached Well Logs

For Department Use: App. Number: _____

SECTION 3: WELL DEVELOPMENT, continued

Total maximum rate requested: 745 GPM* (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).
*This rate is intended to be supplemental to the existing authorized rate of 1,755 gpm.

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the information may be found on the applicable well log. *(If a well log is available, please submit it in addition to completing the table.)* If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information.

										PROPOSED USE			
OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
WELL 1	☐	☒	LAKE1627	☐	16"	0-22	N/A	0-21	122		983		
WELL 1	☐	☒	LAKE4448	☐	8"	LINER INSTALLED O TO 770	476 – 545; 570 758	SAME	145		983		
SVE-1	☐	☒	LAKE52530	☐	13 3/8"	0-900	not reported	0-900	not reported		1,360		
SVE-2	☐	☒	LAKE 52529	☐	13 3/8"	0-495	not reported	0-495	not reported		1,260		
Little Hot Well	☐	☒	LAKE1628	☐	16"	0-270	100-240	0-22	83		315		
Little Hot Well	☐	☒	LAKE 1626	☐	8"	+2-300	N/A	SAME	120	RECEIVED	432		
Little Hot Well	☐	☒	LAKE52582	☐	UNCHANGED		N/A	O-23	not reported	NOV 23 2020 OWRD	432		
	☐	☐		☐									

* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.
** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.
*** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

For Department Use: App. Number: _____

SECTION 4: SENSITIVE, THREATENED OR ENDANGERED FISH SPECIES PUBLIC INTEREST INFORMATION

This information must be provided for your application to be accepted as complete. The Water Resources Department will determine whether the proposed use will impair or be detrimental to the public interest with regard to sensitive, threatened or endangered fish species if your proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters.

To answer the following questions, use the map provided in Attachment 3 or the link below to determine whether the proposed point of appropriation (POA) is located in an area where the Upper Columbia, the Lower Columbia, and/or the Statewide public interest rules apply.

For more detailed information, click on the following link and enter the TRSQQ or the Lat/Long of a POA and click on "Submit" to retrieve a report that will show which section, if any, of the rules apply:
https://apps.wrd.state.or.us/apps/misc/lkp_trsqq_features/

If you need help to determine in which area the proposed POA is located, please call the customer service desk at (503) 986-0801.

Upper Columbia - OAR 690-033-0115 thru -0130

Is the well or proposed well located in an area where the Upper Columbia Rules apply?

☐ Yes ☒ No

If yes, you are notified that the Water Resources Department will consult with numerous federal, state, local and tribal governmental entities so it may determine whether the proposed use is consistent with the "Columbia River Basin Fish and Wildlife Program" adopted by the Northwest Power Planning Council in 1994 for the protection and recovery of listed fish species. The application may be denied, heavily conditioned, or if appropriate, mitigation for impacts may be needed to obtain approval for the proposed use.

If yes, and if the Department determines that proposed groundwater use has the potential for substantial interference with nearby surface waters:

- I understand that the permit, if issued, will not allow use during the time period April 15 to September 30, except as provided in OAR 690-033-0140.
- I understand that the Department of Environmental Quality will review my application to determine if the proposed use complies with existing state and federal water quality standards.
- I understand that I will install and maintain water use measurement and recording devices as required by the Water Resources Department, and comply with recording and reporting permit condition requirements.

Lower Columbia - OAR 690-033-0220 thru -0230

Is the well or proposed well located in an area where the Lower Columbia rules apply?

☐ Yes ☒ No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine, by reviewing recovery plans, the Columbia River Basin Fish and Wildlife Program, and regional restoration programs applicable to threatened or endangered fish species, in coordination with state and federal agencies, as

appropriate, whether the proposed use is detrimental to the protection or recovery of a threatened or endangered fish species and whether the use can be conditioned or mitigated to avoid the detriment.

If a permit is issued, it will likely contain conditions to ensure the water use complies with existing state and federal water quality standards; and water use measurement, recording and reporting required by the Water Resources Department. The application may be denied, or if appropriate, mitigation for impacts may be needed to obtain approval of the proposed use.

If yes, you will be required to provide the following information, if applicable.

☐ Yes ☐ No The proposed use is for more than **one** cubic foot per second (448.8 gpm) and is not subject to the requirements of OAR 690, Division 86 (Water Management and Conservation Plans).

If yes, provide a description of the measures to be taken to assure reasonably efficient water use:

_____

Statewide - OAR 690-033-0330 thru -0340

Is the well or proposed well located in an area where the Statewide rules apply?

☒ Yes ☐ No

If yes, and the proposed groundwater use is determined to have the potential for substantial interference with nearby surface waters you are notified that the Water Resources Department will determine whether the proposed use will occur in an area where endangered, threatened or sensitive fish species are located. If so, the Water Resources Department, Department of Fish and Wildlife, Department of Environmental Quality, and the Department of Agriculture will recommend conditions required to achieve "no loss of essential habitat of threatened and endangered (T&E) fish species," or "no net loss of essential habitat of sensitive (S) fish species." If conditions cannot be identified that meet the standards of no loss of essential T E fish habitat or no net loss of essential S fish habitat, the agencies will recommend denial of the application unless they conclude that the proposed use would not harm the species.

SECTION 5: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Supplemental Irrigation	Irrigation Season	0

For irrigation use only:
Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: _____Acres Supplemental: 317.4 Acres

If you listed supplemental acres, list the Permit or Certificate number of the underlying primary water right(s):

Certificates 82231, 81169, 64777, 64776, and 82232

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 0

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: ____ **(Exempt Uses**: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.)
- If the use is **mining**, describe what is being mined and the method(s) of extraction (*attach additional sheets if necessary*): _____

For Department Use: App. Number: _____

SECTION 6: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

☒ Pump (give horsepower and type): Well #1 equipped with 100 Hp line-shaft turbine; SVE-1 equipped with a 200 Hp lineshaft turbine; SVE-2 equipped with a 300 Hp line-shaft turbine; Little Hot Well estimated to be equipped with a 50 Hp submersible pump.

☐ Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water.
Application of water will be conducted with existing wells, pumps and irrigation pivot and sprinklers.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) (*attach additional sheets if necessary*)
All irrigation is applied using sprinkler and center pivots.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters (*attach additional sheets if necessary*).

The requested supplemental rate of water is intended to authorize the permit holder to effectively apply water to grounds that under typical 1/80 cfs per acre flow rates would be inadequate to produce a sustainable crop while also reduce salts building in the soils as a result of elevated temperatures of groundwater. Conservation is imperative to promote agronomic application of water in excessively drained soils-unused groundwater returns to the groundwater system rapidly based on soil drainage.

SECTION 7: PROJECT SCHEDULE

a) Date construction will begin: Already Begun
b) Date construction will be completed: October 2020
c) Date beneficial water use will begin: Irrigation Season 2021

SECTION 8: RESOURCE PROTECTION

In granting permission to use water the state encourages, and in some instances requires, careful control of activities that may affect adjacent waterway or streamside area. See instruction guide for a list of possible permit requirements from other agencies. Please indicate any of the practices you plan to undertake to protect water resources.

☐ Water quality will be protected by preventing erosion and run-off of waste or chemical products.
Describe: N/A

☐ Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas.
Note: If disturbed area is greater than one acre, applicant should contact the Oregon Department of Environmental Quality to determine if a 1200C permit is required.
Describe planned actions and additional permits required for project implementation: N/A

☐ Other state and federal permits or contracts required and to be obtained, if a water right permit is granted:
List: : N/A

For Department Use: App. Number: _____

SECTION 9: WITHIN A DISTRICT

☐ Check here if the point of appropriation (POA) or place of use (POU) are located within or served by an irrigation or other water district.

Irrigation District Name N/A	Address	
City	State	Zip

SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application *(attach additional sheets if necessary).*

Soil types underlying the proposed POU for Supplemental Irrigation are classified by the USDA Natural Resources Conservation Service (NRCS) as Well-Drained (65B – Deter loam) and Somewhat Excessively Drained (153A – McConnel very gravelly sandy loam). Figure 2, attached, provides the NRCS soil survey map information overlain onto the proposed irrigated area, clearly showing that soil type 153A is the predominant underlying soil type.

The NRCS detailed description for soil type 153A is attached. Per this description:

- Major Management Factors include "… available water capacity, permeability, seepage, …"
- Under Livestock Grazing: "The risk of seepage and the very rapid permeability of the lower part of the soil limit the construction of livestock watering ponds and other water impoundments.""
- Under Cropland, General management considerations: "Because of the low available water capacity, light and frequent applications of irrigation water are needed."

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Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.140)

Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions, please call the Water Rights Customer Service Group at (503) 986-0900.

Please submit the original application and signatures to the Water Resources Department. Applicants are encouraged to keep a copy of the completed application.

- ☒ SECTION 1: Applicant Information and Signature
- ☒ SECTION 2: Property Ownership
- ☒ SECTION 3: Well Development
- ☒ SECTION 4: Sensitive, Threatened or Endangered Fish Species Public Interest Information
- ☒ SECTION 5: Water Use
- ☒ SECTION 6: Water Management
- ☒ SECTION 7: Project Schedule
- ☒ SECTION 8: Resource Protection
- ☒ SECTION 9: Within a District -N/A
- ☒ SECTION 10: Remarks

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Include the following additional items:

- ☒ Land Use Information Form with approval and signature of local planning department (*must be an original*) or signed receipt.
- ☒ Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.
- ☒ Fees - Amount enclosed: $ 3,610
  See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.
- ☒ Map that includes the following items:
  - ☒ Permanent quality and drawn in ink
  - ☒ Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
  - ☒ North Directional Symbol
  - ☒ Township, Range, Section, Quarter/Quarter, Tax Lots
  - ☒ Reference corner on map
  - ☒ Location of each diversion, by reference to a recognized public land survey corner (distances north/south and east/west)
  - ☒ Indicate the area of use by Quarter/Quarter and tax lot identified clearly.
  - ☒ Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
  - ☒ Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)

Note: In addition to a groundwater application, a standard reservoir application is required to store groundwater in a reservoir. If an applicant proposes to divert water from a reservoir, a surface water application is also required.

Water-Use Permit Application Processing

1. **Completeness Determination**

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050. The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus $260. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is $410.00 for the applicant and $810.00 for non-applicants. Protests are filed on approximately 10 percent of Proposed Final Orders. If a protest is filed the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

6. Final Order Issued

If no protests are filed, the Department can issue a Final Order within 60 days of the close of the period for receiving protest. If the application is approved, a permit is issued. The permit specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate

FIGURES

LAND USE FORM

Land Use Information Form

OREGON WATER RESOURCES DEPARTMENT
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

Applicant

NAME				PHONE (HM)
COLAHAN ENTERPRISES, INC./ ERIN DOUGLAS				541-943-3280
PHONE (WK)	CELL 541-410-4968			FAX
ADDRESS 45190 HWY 31				
CITY PAISLEY	STATE OR	ZIP 97636	E-MAIL* lizzymongo@hotmail.com	

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:
33S	18E	13	SW SW	203		☐ Diverted ☐ Conveyed ☒ Used	Supplemental Irrigation
33S	18E	14	SE SE	801		☐ Diverted ☐ Conveyed ☒ Used	
33S	18E	23	NE NW	802		☐ Diverted ☐ Conveyed ☒ Used	
33S	18E	23	NE ¼; SE NW; NE SW; NW SW; NE SW	1300		☒ Diverted ☒ Conveyed ☒ Used	
33S	18E	24	NW NW SW NW	1300		☐ Diverted ☐ Conveyed ☒ Used	

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

Paisley; 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 ☒ Groundwater ☐ Surface Water (name) ____

Estimated quantity of water needed: 745 ☐ 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 ____

Briefly describe:

Supplemental irrigation to provide additional water due to the rapidly draining soils where the primary rights are located.

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.

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): Lake County Zoning Ordinance - Article 3

☐ 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	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ 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.

NAME: Darron Johnson		TITLE: Planning Director
SIGNATURE:	PHONE: 541-947-6036	DATE: 22 May 2020
GOVERNMENT ENTITY: Lake County 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: _____

OWRD WELL LOGS

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED OCT 24 1980 WATER RESOURCES DEPT. SALEM, OREGON

LAKE 1627

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

– per WWS 1/11/82 JCB → WELL #1

State Well No. 33 35S/18E-23CB

State Permit No. G-9765

Lake 1627

(1) OWNER:
Name: Ross Colahan
Address: Box 89 Paisley, Ore. 97636

(2) TYPE OF WORK (check):
New Well ☑ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☑ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☐
16" Diam. from 0 ft. to 22 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☑ No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☑ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☑ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Bailer test (Air test) 800 gal./min. with ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water 220° Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used: Cement
Well sealed from land surface to 21 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 15¼ to 360' 10" to 983
Number of sacks of cement used in well seal 28 sacks
How was cement grout placed? pressure grouted.

Was a drive shoe used? ☐ Yes ☑ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☑ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☑ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County: Lake Driller's well number 124
NW ¼ SW ¼ Section 23 T. 35S R. 18E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 60 gal at 170 ft.
Static level 122 ft. below land surface. Date Oct. 22-80
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 15¼ to 360
Depth drilled 983 ft. Depth of completed well 983 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Brown Top soil	0	2	
Broken Basalt & Brn. Clay	2	108	
Broken Grey & Brn. rock	108	181	
170' W/[illegible] seam			
Brown Clay	181	210	
Brown shale	210	251	
Blue Clay	251	286	
Med [illegible] shale	286	291	
Med [illegible] Green Blue shale	291	297	
Brown shale	297	330	
Green Brown shale	330	720	
720' Hot water			
shale	720	775	
Hard Basalt	775	800	
Hard shale	800	983	

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Work started Sept 1 1980 Completed Oct 22 1980
Date well drilling machine moved off of well Oct 22 1980

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Stan L. Adams (Drilling Machine Operator) Date Oct 23, 1980
Drilling Machine Operator's License No. 1302

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name: Lyle Adams (Person, firm or corporation) (Type or print)
Address: Rt. 1 Box 499 Hillsboro, Ore. 97123
[Signed] Lyle Adams (Water Well Contractor)
Contractor's License No. 690 Date Oct 23, 1980

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

LAKE 1627

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

AUG 10 2015

SALEM, OR

Application for Well ID Number

Do not complete if the well already has a Well Identification Number.

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I. OWNER INFORMATION

Current Owner Name *(please print)*: Colahan Enterprises

Mailing Address: PO Box 300

City, State, Zip: Paisley, Oregon 97636

Mail Well ID Tag to: ☐ SAME AS ABOVE ☑ In Care Of (C/O)

Name & Address: Attn: Lynn Culp, Surprise Valley Electrification Corp. (SVEC); 516 US Highway 395 E.

City, State, Zip: Alturas, CA, 96101

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake NW 1/4 of the SW 1/4

GPS Coordinates: already assigned OWRD well log numbers: LAKE 1627/4448 - but no ID #

Street Address of Well, City: → 42.69393 -120.568195

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): irrigation

Date Well Constructed (or property built): Sept 1980 Total Well Depth: 983' Casing Diameter: 16"

Owner at time the well was constructed (if known): Ross Colahan

Other Information: Well name: Hot Well

SUBMITTED BY *(please print)*: Lynn Culp / Surprise Valley Electric Corp.

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:	Well Log Number:	Well Identification #:
8-10-15	LAKE 1627 (ORIG.) LAKE 4448 (ALT.)	L-119827

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

Lake 4448

LAKE 4448
WATER WELL REPORT
STATE OF OREGON

(Please type or print)

RECEIVED
OCT 2 1981
WATER RESOURCES DEPT
SALEM, OREGON

Lake County
State Well No. 33S/18E-23Cd
State ~~Permit~~ App. No. G-10791
Landowner Reconditioning

(Do not write above this line)

(1) OWNER:
Name Ross Calahan
Address Box 89 Paisley ore

(2) TYPE OF WORK (check):
New Well ☐ Deepening ☐ Reconditioning ☒ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
D[redacted] ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

CASING INSTALLED: Threaded ☐ Welded ☐
[redacted]e" Diam. from ____ ft. to ____ ft. Gage ____
____" Diam. from ____ ft. to ____ ft. Gage ____
____" Diam. from ____ ft. to ____ ft. Gage ____

PERFORATIONS: Perforated? ☒ Yes ☐ No
[redacted] of perforator used FACTORY 1/8" X 4"
Size of perforations 1/8 in. by 4 in.
1656 perforations from 476 ft. to 545 ft.
1840 perforations from 669 ft. to 758 ft.
1584 perforations from 570 ft. to 669 ft.

(7) SCREENS: Well screen installed? ☐ Yes ☒ No
Manufacturer's Name ____
Type ____ Model No. ____
Diam. ____ Slot size ____ Set from ____ ft. to ____ ft.
Diam. ____ Slot size ____ Set from ____ ft. to ____ ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom?
800 gal./min. with 8 ft. drawdown after 4 hrs.
" " " "
" " " "
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
[redacted]ian flow N/A g.p.m.
[redacted]perature of water 212° Depth artesian flow encountered ____ ft.

(9) CONSTRUCTION:
Well seal—Material used NOT DISTURBED
Well sealed from land surface to ____ ft.
Diameter of well bore to bottom of seal ____ in.
Diameter of well bore below seal ____ in.
Number of sacks of cement used in well seal ____ sacks
Number of sacks of bentonite used in well seal ____ sacks
Brand name of bentonite ____
Number of pounds of bentonite per 100 gallons of water ____ lbs./100 gals.
Was a drive shoe used? ☐ Yes ☐ No Plugs ____ Size: location ____ ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? ____ depth of strata ____
Method of sealing strata off ____
Was well gravel packed? ☐ Yes ☐ No Size of gravel: ____
Gravel placed from ____ ft. to ____ ft.

(10) LOCATION OF WELL:
County ____ Driller's well number ____
SE ¼ SW ¼ Section 23 T. 33S R. 18E W.M.
Bearing and distance from section or subdivision corner ____

(11) WATER LEVEL: Completed well.
Depth at which water was first found 170 ft.
Static level 145 ft. below land surface. Date 9-22-81
Artesian pressure ____ lbs. per square inch. Date ____

(12) WELL LOG: Diameter of well below casing N/A
Depth drilled 0 ft. Depth of completed well 770 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
INSTALLED Liner only			
178' 1/4" X 8" Liner			
~~From~~ from 592' TO 770'			
24' .375 wall X 12" From			
616' TO 640			
+1' TO 616 FT 1/4" X			
12" Liner			
~~Liner~~ BOTH 12" & 8"			
Liner has a drive			
shoe.			

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OWRD

Work started 2/17 81 Completed 9-29 81
Date well drilling machine moved off of well 9-28 81

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] ____ (Drilling Machine Operator) Date ____, 19____
Drilling Machine Operator's License No. ____

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Landowner Book # BWD 231 9815 (Person, firm or corporation) (Type or print)
Address BOX 89 Paisley ore
[Signed] Ross Calahan (Water Well Contractor)
Contractor's License No. ____ Date ____, 19____

(USE ADDITIONAL SHEETS IF NECESSARY)

9-29-81

SP*45656-119

LAKE 4448

RECEIVED BY OWRD

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

AUG 10 2015

SALEM, OR

Application for Well ID Number

Do not complete if the well already has a Well Identification Number.

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OWRD

I. OWNER INFORMATION

Current Owner Name *(please print)*: Colahan Enterprises

Mailing Address: PO Box 300

City, State, Zip: Paisley, Oregon 97636

Mail Well ID Tag to: ☐ SAME AS ABOVE ☑ In Care Of (C/O)

Name & Address: Attn: Lynn Culp, Surprise Valley Electrification Corp. (SVEC); 516 US Highway 395 E.

City, State, Zip: Alturas, CA, 96101

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake NW 1/4 of the SW 1/4

GPS Coordinates: already assigned OWRD well log numbers: LAKE 1627/4448 - but no ID #

Street Address of Well, City: → 42.69393 -120.568195

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): irrigation

Date Well Constructed (or property built): Sept 1980 Total Well Depth: 983' Casing Diameter: 16"

Owner at time the well was constructed (if known): Ross Colahan

Other Information: Well name: Hot Well

SUBMITTED BY *(please print)*: Lynn Culp / Surprise Valley Electric Corp.

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:	Well Log Number:	Well Identification #:
8-10-15	LAKE 1627 (ORIG.) LAKE 4448 (ALT.)	L-119827

SVE-1

LAKE 52530

WELL I.D. # L _____

(1) LAND OWNER Well Number SVE #1
Name Colahan Enterprises
Address P.O. Box 300
City Paisley State OR Zip 97636

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other _____

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☒ Thermal ☐ Injection ☐ Livestock ☐ Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 1360 ft.
Explosives used ☐ Yes ☐ No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
	0	1360		0	900	

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☐ Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
	13 3/8"	0	900		☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
~1,000			

Temperature of water _____ Depth Artesian Flow Found _____
Was a water analysis done? ☐ Yes By whom _____
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County LAKE Latitude _____ Longitude _____
Township 33 S N or (S) Range 18E (E) or W. WM.
Section 23 1/4 _____ 1/4
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 2,050 ft N & 1,370 ft E from SW corner of Section 23

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
See attached			

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NOV 23 2020
OWRD

Date started _____ Completed _____

SOURCE OF DATA/INFO
File T-11860
File LL-1450

COMPILED BY: Gerald Grondin
OWRD Groundwater Section

DATE: 22 July 2014

WELL INFORMATION REPORT

11/16/2000

LAKE 52530

LITHOGRAPHIC DESCRIPTION OF OIL OR GAS WELL

(Not required if a mud log is submitted)

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

(1) Permittee Information

Name	Surprise Valley Electrification Corp.
Mailing Address	516 US Hwy 395 E
City/State/Zip	Alturas, CA 96101
Telephone	530.233.3511
Fax	530.233.2190
Email	lynnsvec@frontier.com
Prepared by	Lynn Culp, Silvio Pezzopane, Roy Mink, Kyle Makovsky

(2) Well Information

Well No.	SVE #1
DOGAMI ID No.	36-037-90009 Lake 448

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OWRD

General Manager — *Title*

5/29/2012 — *Date*

Signature

(3) Well Cuttings

Depth From	Depth To	Description
0	40	Brown clay soil and gravelly sand
40	75	Brownish-grey rounded mixed volcanic (basalt, rhyolite, andesite, tuff, pumice) gravel, qtz-rich sand
75	105	Grey quartz-rich sand, with thin brown and grey clay beds, Water Bearing (WB)
105	150	Greyish-brown mixed volcanic gravel, qtz-sand, and clay, WB
150	165	Brown mixed volcanic (basalt, rhyolite, andesite) gravel, rounded sand and clay
165	175	Brown clayey sand and mixed gravels
175	225	Blackish grey basalt gravel, w/ sand and clay beds, WB
225	240	Blackish grey to brown basalt and andesite gravel, and sand
240	305	Varicolored mixed volcanic (basalt, rhyolite, andesite, tuff) gravel and sand, w/ brown clay beds
305	360	Brown gravelly sand and brown clay beds
360	390	Varicolored (grey, brown, black, red, green) basalt, rhyolite, andesite gravel, sand, and brown clay, WB
390	415	Brownish grey and red volcanic gravel, sand, and clay, WB
415	435	Varicolored mixed volcanic gravel (basalt, rhyolite, andesite, tuff), rounded, reddish brown sand and clay
435	490	Varicolored coarse volcanic gravel, rounded, red to brown sand, brown sticky clay beds
490	530	Varicolored volcanic pebble gravel, rounded, w/ sand and reddish brown sticky clay
530	540	White calcite, black and grey basalt andesite, red rhyolite, red and grey tuff w/ brownish red sticky clay
540	575	Red sticky clay ash, vesicular and fiberous pumice clasts, minor sand, grey pebbles
575	640	Red and grey tuffs w/ altered vesicles, minor grey to greenish to black basalt, andesite, rhyolite, WB?
640	675	Red rhyolite tuff and grey andesite w/ altered vesicles, greenish basalt, blades of calcite
675	715	Light grey basalt, reddish brown and green alteration stains, altered vesicles, pyrite, euhedral calcite and quartz
715	715	Light greyish green rhyolite, reddish brown to dark purple basalt?, altered vesicles, pyrite, calcite and quartz
715	795	Dark greenish grey andesite?, dark purplish brown basalt, minor light red and white tuff, rare euhedral quartz
795	870	Dark grey to brown basalt w/ white pumice chunks, rare red and white tuff cinders, rare euhedral quartz
870	905	Dark greenish grey to dark purplish brown basalt, few pumice, rare euhedral and calcite quartz
905	920	Grey to white calcite flakes, possible fracture zone? no rock data - lost circulation, samples floated up during trip out
920	950	Brown sticky slick clay ash, large (<2 cm dia.) euhedral calcite chunks, red cinders and pumice, dries hard
950	1000	Purple, grey, and brown lithic tuff, poorly-welded?, soft waxy, sticky ashy clay, small calcite and quartz crystals
1000	1050	Green, grey, and brown andesite, alteration stains, red lithic tuff, cinders?, large euhedral calcite and quartz crystals
1050	1080	Dark greenish grey andesite, reddish purple stains, hard, fine-grained, large euhedral calcite flakes (fractures?)
1080	1100	no data - no returns
1100	1100	Red, grey, white, and brown lithic tuff or volcaniclastic sediment (depth uncertain, samples floated up during cleaning)
1100	1120	no data - no returns - lost circulation
1120	1120	Dark greenish grey andesite, reddish purple clay? stains, hard, fine-grained, red lithic tuff w/ euhedral quartz crystals, (depth uncertain, sample picked out of the drill collar)
1120	1133	no data - no returns
1133	1133	Reddish brown, lithic tuff, poorly-welded?, sticky clay, dries hard, small calcite and quartz crystals (depth uncertain, sample stuck to the drill bit face)
1133	1235	no data - no returns
1235	1315	Dark greenish grey andesite, red lithic tuff, euhedral quartz crystals, (depth uncertain, sample stuck to the bailer)
1315	1360	no data - no returns
	1360	- Total Depth

LAKE 52530

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

Application for Well ID Number

RECEIVED BY OWRD

NOV 03 2014

SALEM, OR

Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name *(please print)*: Suprise Valley Electrification Corp. (SVEC); Attn: Lynn Culp

Mailing Address: 516 US Highway 395 E

City, State, Zip: Alturas, CA, 96101

Mail Well ID Tag to: [✓] SAME AS ABOVE [ ] In Care Of (C/O)

Name & Address:

City, State, Zip:

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OWRD

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake NE 1/4 of the SW 1/4

GPS Coordinates: already assigned a OWRD well Log number: LAKE 52530 - but does not have ID number

Street Address of Well, City:

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): industrial/geothermal & irrigation

Date Well Constructed (or property built): August 2012 Total Well Depth: 1360 Casing Diameter: 13 3/8 "

Owner at time the well was constructed (if known): SVEC is well owner - Colahan's own the property

Other Information: Well name: SVE-1

SUBMITTED BY *(please print)*: Lynn Culp

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:	Well Log Number:	Well Identification #:
11-3-14	LAKE 52530	L-117043

SVE-2

LAKE 52529

WELL I.D. # L _____

(1) LAND OWNER Well Number SVE #2
Name Colahan Enterprises
Address P.O. Box 300
City Paisley State OR Zip 97636

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☒ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well 1260 ft.
Explosives used ☐ Yes ☐ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
	0	1260		0	495	

How was seal placed: Method ☐A ☐B ☐C ☐D ☐E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
	13 3/8"	0	495		☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
~2,000			

Temperature of water Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County LAKE Latitude Longitude
Township 33S N or (S) Range 18E (E) or W. WM.
Section 23 1/4 1/4
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 2,665 ft N & 1,725 ft W from SE corner of section 23

(10) STATIC WATER LEVEL:
ft. below land surface. Date
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
See attached			

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NOV 23 2020
OWRD

Date started Completed

SOURCE OF DATA/INFO

File T-11860
File LL-1450

COMPILED BY: Gerald Grondin
OWRD Groundwater Section

DATE: 22 July 2014

WELL INFORMATION REPORT

11/16/2000

LAKE 52529

LITHOGRAPHIC DESCRIPTION OF OIL OR GAS WELL

(Not required if a mud log is submitted)

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

(1) Permittee Information

Name	Surprise Valley Electrification Corp.
Mailing Address	516 US Hwy 395 E.
City/State/Zip	Alturas, CA 96101
Telephone	530.233.3511
Fax	530.233.2190
Email	lynnsvec@frontier.com
Prepared by	Lynn Culp, Kyle Makovsky, Roy Mink, Silvio Pezzopane

(2) Well Information

Well No.	SVE #2
DOGAMI ID No.	36-037-90027 Lake 1628

General Manager — 5/29/2012

Signature — *Title* — *Date*

(3) Well Cuttings

Depth From	Depth To	Description
0	40	Brown clay soil and gravelly sand
40	60	Light brown ash fragments, reddish rhyolite, black basalt, minor calcite/quartz
60	80	Light brown/grey ash, red rhyolite, black basalt, cinders, rounded grains, black and red cuttings magnetic
80	105	Light grey/brown ash, red rhyolite, black basalt, rounded grains, chert and obsidian magnetic
105	125	Light grey/brown ash, red rhyolite, black basalt, rounded grains, purple, orange alteration, green stone
125	155	Grey/brown ash, red rhyolite, black basalt, rounded grains, black and grey chips magnetic, light tan pumice fragments
155	185	Grey/brown ash, red rhyolite, black basalt, magnetic, white/grey pumice green stone, minor alteration stains
185	210	Grey/brown rhyolite, red rhyolite with alteration, black basalt, white/grey pumice
210	245	Grey/brown rhyolite, red rhyolite, black basalt, light brown pumice
245	300	Grey/brown rhyolite, red and brown rhyolite, black basalt, pumice, rounded grains
300	340	Brown/grey rhyolite, rounded w/ some alteration, light grey tuff, black basalt/rhyolite; light grey tuff, feldspar chips
340	360	Grey/light brown rhyolite, dark grey/black rhyolite, light red/yellow altered rhyolite, some chips rounded
360	410	Grey/brown rhyolite, dark grey/black basalt, light red/yellow altered rhyolite, grey/white pumice, rounded pebbles
410	420	Black basalt, light brown rhyolite, some alteration
425	430	no data - no returns
435	460	Black basalt, light brown/grey rhyolite, red altered rhyolite
460	465	Fine sand of light brown/grey rhyolite, black basalt/rhyolite; light brown/red altered rhyolite
465	475	Light brown/grey rhyolite, black basalt/rhyolite, yellow/red altered rhyolite
475	490	Large amount fine sand, smaller cuttings are same as above with white alteration/pumice
490	510	Altered tuff, light grey to reddish brown to dark brown, waxy texture, amorphous silica present
510	530	no data - no returns
530	565	Dark to light gray basalt, andesite, white and green alteration minerals
565	620	Porphyritic basalt and andesite, pink/dark green/white alteration, opaline quartz, amorphous silica, calcite rhombs
620	695	Dark gray, green, purple, and red basalt, amorphous silica, euhedral quartz, and calcite in vesicles
695	710	Porphyritic andesite, opaline quartz
710	790	Gray green and red basalt, altered, fibrous banded white mineral, calcite rhombs, crystalline and opaline quartz
790	800	Olivine rich basalt, little alteration
800	815	Porphyritic andesite and basalt rock, highly altered, clear crystalline quartz, banded alteration
815	845	Amygdaloidal basalt, amygdules are green, white banded, botryoidal texture, calcite grains
845	890	Gray basalt, little to no alteration
890	905	Vesicular/amygdaloidal basalt, high amount of crystalline quartz filling vesicles
905	920	Basalt with pyrite mineralization
920	930	Gray basaltic andesite
930	960	Gray/red/purple basalt, calcite rhombs, some amygdaloidal calcite
960	1010	Dark gray and green basalt, calcite rhombs
1010	1070	Highly altered vesicular/amygdaloidal basalt, pyrite mineralization, dark green/white/pink alteration minerals
1070	1260	no data - no returns
	1260	- Total Depth

LAKE 52529

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

RECEIVED
NOV 23 2020
OWRD

Application for Well ID Number

RECEIVED BY OWRD
NOV 03 2014
SALEM, OR

Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name *(please print)*: Suprise Valley Electrification Corp. (SVEC); Attn: Lynn Culp

Mailing Address: 516 US Highway 395 E

City, State, Zip: Alturas, CA, 96101

Mail Well ID Tag to: [✓] SAME AS ABOVE [ ] In Care Of (C/O)

Name & Address:

City, State, Zip:

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake SW 1/4 of the NE 1/4

GPS Coordinates: already assigned a OWRD well Log number: LAKE 52529 - but does not have ID number

Street Address of Well, City:

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): industrial/geothermal & irrigation

Date Well Constructed (or property built): Feb 2012 Total Well Depth: 1260 Casing Diameter: 13 3/8 "

Owner at time the well was constructed (if known): SVEC is well owner - Colahan's own the property

Other Information: Well Name: SVE-2

SUBMITTED BY *(please print)*: Lynn Culp

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:	Well Log Number:	Well Identification #:
11-3-14	LAKE 52529	L-117044

LITTLE HOT WELL

LAKE 1628

Lake 1628

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

RECEIVED
APR 7 1964
STATE ENGINEER
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

State Well No. 33/18-23G

State Permit No.

(1) OWNER:
Name Ross Colohan
Address Paisley, Oregon

(2) LOCATION OF WELL:
County Lake Driller's well number
SW ¼ NE ¼ Section 23 T. 33S R. 18 E W.M.
Bearing and distance from section or subdivision corner
1½ miles NW of Paisley, Oregon

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(3) TYPE OF WORK (check):
Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒
16 " Diam. from 0 ft. to 270 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? ☒ Yes ☐ No
Type of perforator used Mills
Size of perforations ¼ in. by 4 in.
1400 perforations from 100 ft. to 240 ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed ☐ Yes ☒ No
Manufacturer's Name
Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal puddled clay
Depth of seal 22 ft. Was a packer used? no
Diameter of well bore to bottom of seal 22 in.
Were any loose strata cemented off? ☐ Yes ☒ No Depth
Was a drive shoe used? ☒ Yes ☐ No
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 83 ft. below land surface Date 4/3/64
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Contractor
Yield: 150 gal./min. with 83 ft. drawdown after 3 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 104 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:
Diameter of well below casing 8
Depth drilled 315 ft. Depth of completed well 315 ft.
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
soil zone, gravelly	0	3
loose gravel and sand, med.	3	11
clay&sand, brown	11	35
volcanic gravel & clay, brn	35	92
gravel, med. seepage of wat	92	94
gravel & clay, brn.	94	110
med. gravel & brn.	110	112
hard-packed sand and clay,	112	118
soft sandy clay, brown	118	121
sticky clay & gravel, brn.	121	124
loose gravel, fine waterbe	124	125
boulders & clay, gray	125	159
sandy clay , brown	159	176
fine gravel, waterbearing	176	182
sticky clay & gravel, gray	182	194
fine sand, white, waterbe	194	199
clay & gravel, brn.	199	220
fine sand, wht. & pink, wat	220	225
sandy clay & gravel,fine	225	230
med. gravel, waterbearing	230	234
sticky clay, brn.	234	298
basalt rock w/ clay string-ers, brown	298	315

Work started 3/7/64 19 . Completed 4/3/ 1964
Date well drilling machine moved off of well 4/4 1964

(13) PUMP:
Manufacturer's Name
Type: H.P.

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Jack Stooksberry, Jr. (Person, firm or corporation) (Type or print)
Address Route 2, Box 47, Lakeview, Ore.
Drilling Machine Operator's License No. 45
[Signed] Jack Stooksberry Jr. (Water Well Contractor)
Contractor's License No. 211 Date 4/3, 19 64

(USE ADDITIONAL SHEETS IF NECESSARY)

LAKE 1628

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

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AUG 10 2015

SALEM, OR

Application for Well ID Number

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NOV 23 2020
OWRD

Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name *(please print)*: Colahan Enterprises

Mailing Address: PO Box 300

City, State, Zip: Paisley, Oregon 97636

Mail Well ID Tag to: ☐ SAME AS ABOVE ☑ In Care Of (C/O)

Name & Address: Attn: Lynn Culp, Surprise Valley Electrification Corp. (SVEC); 516 US Highway 395 E.

City, State, Zip: Alturas, CA, 96101

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake SW 1/4 of the NW 1/4

GPS Coordinates: already assigned OWRD well log numbers: LAKE 1628/1626/52582 - but no ID #

Street Address of Well, City: → 42.697274 −120.55813

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): irrigation; application pending for industrial

Date Well Constructed (or property built): April 1964 Total Well Depth: current 270' Casing Diameter: 16"

Owner at time the well was constructed (if known): Ross Colahan

Other Information: Well name: Little Hot Well

SUBMITTED BY *(please print)*: Lynn Culp / Surprise Valley Electric Corp.

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date:	Well Log Number:	Well Identification #:
8-10-15	LAKE 1628 (ORIG.) LAKE 1626 (DEEP.) LAKE 52582 (ALT.)	L-119826

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

DEPARTED LAKE 1626 Lake 1626

APR 17 1987

33S/18E-23aC Deep.

(1) OWNER:

Name Ross Colohan & Son Owner's Well Number:

WATER RESOURCES DEPT. SALEM, OREGON

Address P.O. Box

City Paisely State Oreg. Zip 97636

(2) TYPE OF WORK:

☐ New Well ☒ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Depth of Completed Well 415 ft.

Special Standards date of approval

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
8"	306	430	xxx	not disturbed		

How was seal placed? Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other not disturbed

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	8"	+2	300	.188	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

PERFORATIONS/SCREENS:

☐ Perforations Method none

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Pumping level	Drill stem at	Time
			½ hr
50		415	1 hr

Temperature of water 175* Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom no

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other no

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Lake Latitude ' " Longitude ' "

Township 33S N or S, Range 18E E or W, WM.

Section 23 SW ¼ NE ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL:

120 ft. below land surface. Date Mar. 18-87

Artesian pressure lb. per square inch. Date

(11) WELL LOG:

Ground elevation unknown

Material	From	To	WB?	SWL
Hard Grey Basalt	306	329		
Mild Brown Lava	329	331		
Hard Grey Basalt	331	337		
Mild Brown Lava	337	339		
Broken Lava, W/B	339	353	WB-	
Hard Basalt	353	360		
White Clays	360	375		
Brown & Blue Clays	375	430		
Brown & Blue Clays	430	432		

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Date started Mar. 9-87 Completed Mar. 18-87

(unbonded) Water Well Constructor Certification:

I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed Date Mar. 22-87

(bonded) Water Well Constructor Certification:

I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.

Signed Date 4-9-87

Company Orvail Buckner Well Drilling, Inc. Co. Reg. No.

9809C 10/85

LAKE 1626

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

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SALEM, OR

Application for Well ID Number

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Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name *(please print)*: Colahan Enterprises

Mailing Address: PO Box 300

City, State, Zip: Paisley, Oregon 97636

Mail Well ID Tag to: ☐ SAME AS ABOVE ☑ In Care Of (C/O)

Name & Address: Attn: Lynn Culp, Surprise Valley Electrification Corp. (SVEC); 516 US Highway 395 E.

City, State, Zip: Alturas, CA, 96101

II. WELL LOCATION INFORMATION *(Please fill out as completely as possible)*

Township: 33S (North / South) Range: 18E (East / West) Section: 23

Tax Lot: 1300 County Lake SW 1/4 of the NW 1/4

GPS Coordinates: already assigned OWRD well log numbers: LAKE 1628/1626/52582 - but no ID #

Street Address of Well, City: → 42.697274 -120.55813

If the property had a different street address in the past:

III. GENERAL WELL INFORMATION *(Please fill out as completely as possible)*

Use of Well (domestic, irrigation, commercial, industrial, monitoring): irrigation; application pending for industrial

Date Well Constructed (or property built): April 1964 Total Well Depth: current 270' Casing Diameter: 16"

Owner at time the well was constructed (if known): Ross Colahan

Other Information: Well name: Little Hot Well

SUBMITTED BY *(please print)*: Lynn Culp / Surprise Valley Electric Corp.

PHONE: (530) 233-3511 **EMAIL &/or FAX:** lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902. Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

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Received Date:	Well Log Number:	Well Identification #:
8-10-15	LAKE 1628 (ORIG.) LAKE 1626 (DEEP.) LAKE 52582 (ALT.)	L-119826

LAKE 52582

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L

START CARD # 209512

(1) LAND OWNER

Owner Well I.D. 33/18-23G

First Name Ross Last Name Colhan

Company

Address 38650 HWY 31

City Paisley State Or Zip 97636

(2) TYPE OF WORK

☐ New Well ☐ Deepening ☐ Conversion
☑ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD

☑ Rotary Air ☐ Rotary Mud ☐ ~~Reverse~~ ☐ Auger ☐ Cable Mud
☐ Reverse Rotary ☐ Other

(4) PROPOSED USE

☐ Domestic ☐ ~~Irrigation~~ ☐ Community
☑ Industrial/ Commericial ☐ Livestock ☐ Dewatering
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION

Special Standard ☐ Attach copy

Depth of Completed Well _____ ft.

BORE HOLE Dia	From	To	SEAL Material	From	To	Amt	sacks/ lbs
			Neat Cement	0	23		35

How was seal placed: Method ☑ A ☐ B ☐ C ☐ D ☐ E

☐ Other

Backfill placed from _____ ft. to _____ ft. Material _____

Filter pack from _____ ft. to _____ ft. Material _____ Size _____

Explosives used: ☐ Yes Type _____ Amount _____

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd

Shoe ☐ Inside ☐ Outside ☐ Other Location of shoe(s) _____

Temp casing ☐ Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS

Perforations Method _____

Screens Type _____ Material _____

Perf/Screen	Casing/Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

◯ Pump ◯ Bailer ◯ Air ◯ Flowing Artesian

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Temperature _____ °F Lab analysis ☐ Yes By _____

Water quality concerns? ☐ Yes (describe below)

From	To	Description	Amount	Units

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NOV 18 2014
SALEM, OR

(9) LOCATION OF WELL (legal description)

County LAKE Twp 33 S N/S Range 18 E E/W WM

Sec 23 SW 1/4 of the NE 1/4 Tax Lot 1300

Tax Map Number _____ Lot _____

Lat ° ' " or _____ DMS or DD

Long ° ' " or _____ DMS or DD

◯ Street address of well ◯ Nearest address

1-1/2 miles NW of Paisely, Oregon

(10) STATIC WATER LEVEL

	Date	SWL(psi)	+	SWL(ft)
Existing Well / Predeepening				
Completed Well				

Flowing Artesian? ☐ Dry Hole? ☐

WATER BEARING ZONES Depth water was first found _____

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)

(11) WELL LOG

Ground Elevation _____

Material	From	To
Remove original puddled clay seal with overshot — replace with 24" cement seal to 23'		

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Date Started 7.30.14 Completed 7.30.14

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

License Number _____ Date _____

Password : (if filing electronically) _____

Signed _____

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

License Number 1946 Date 11-12-14

Password : (if filing electronically) _____

Signed _____

Contact Info (optional) _____

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

Form Version: 0.96

WATER SUPPLY WELL REPORT
continuation page

LAKE 52582

LL I.D. # L ______

START CARD # 209512

(5) BORE HOLE CONSTRUCTION

BORE HOLE

Dia	From	To

SEAL

Material	From	To	Amt	sacks/ lbs

FILTER PACK

From	To	Material	Size

(6) CASING/LINER

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐
◯	◯		☐				◯	◯	☐	☐

(7) PERFORATIONS/SCREENS

Perf/Screen	Casing/ Liner	Screen Dia	From	To	Scrn/slot width	Slot length	# of slots	Tele/ pipe size

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)

Water Quality Concerns

From	To	Description	Amount	Units
		RECEIVED BY OWRD		
		NOV 18 2014		

SALEM, OR

(10) STATIC WATER LEVEL

Water Bearing Zones

SWL Date	From	To	Est Flow	SWL(psi)	+	SWL(ft)
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	
					☐	

(11) WELL LOG

Material	From	To
RECEIVED		
NOV 23 2020		
OWRD		

Comments/Remarks

LAKE 52582

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

RECEIVED BY OWRD
AUG 10 2015
SALEM, OR

Application for Well ID Number

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OWRD

Do not complete if the well already has a Well Identification Number.

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Mailing Address: PO Box 300

City, State, Zip: Paisley, Oregon 97636

Mail Well ID Tag to: ☐ SAME AS ABOVE ☑ In Care Of (C/O)

Name & Address: Attn: Lynn Culp, Surprise Valley Electrification Corp. (SVEC); 516 US Highway 395 E.

City, State, Zip: Alturas, CA, 96101

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Township: 33S (North / South) Range: 18E (East / West) Section: 23

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8-10-15	LAKE 1628 (ORIG.) LAKE 1626 (DEEP.) LAKE 52582 (ALT.)	L-119826

NRCS SOIL DESCRIPTIONS

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Characteristics of the Deter Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium, lacustrine sediment; source—tuff, basalt, diatomite
Elevation: 4,700 to 5,000 feet
Climatic factors:
Mean annual precipitation—14 to 18 inches
Mean annual air temperature—45 to 48 degrees F
Frost-free period—70 to 110 days
Typical profile:
0 to 7 inches—very dark brown loam
7 to 19 inches—dark brown clay loam
19 to 34 inches—dark reddish brown clay
34 to 46 inches—reddish brown gravelly clay
46 to 60 inches—dark brown gravelly clay loam
Depth class: Very deep (more than 60 inches) to bedrock
Drainage class: Well drained
Permeability: Slow
Available water capacity: About 8 inches
Hazard of erosion: By water—moderate; by wind—slight or moderate
Shrink-swell potential: High between depths of 7 and 46 inches

Contrasting Inclusions

- Drews and Drewsgap soils that are on adjacent lake terraces
- Oxwall soils that are on adjacent, higher lying lake terraces and have low sagebrush in the potential plant community
- Salisbury soils that are on adjacent, higher lying lake terraces
- Soils that are similar to the Deter soil but have a hardpan or bedrock at a depth of 40 to 60 inches

Major Uses

Cropland, livestock grazing

Major Management Factors

Slope, water erosion, permeability, shrink-swell potential

Dominant Vegetation in Potential Plant Community

Idaho fescue, antelope bitterbrush, bluebunch wheatgrass

Livestock Grazing

General management considerations:
- The surface layer is saturated following snowmelt because of the slow permeability of the subsoil.
- The clayey subsoil restricts rooting depth.

Suitable management practices:
- If this unit is seeded, select plants that tolerate shrinking and swelling.
- Seed on the contour or across the slope where practical.
- Delay grazing until the surface layer is firm and the preferred forage plants have achieved sufficient growth to withstand grazing pressure.
- Minimize the risk of erosion by preserving existing plant cover, seeding, accumulating litter on the surface, and maintaining adequate plant cover.

Cropland

General management considerations:
- Because of the limited precipitation, continuous cropping is suitable only if the soil is irrigated. A suitable cropping system includes small grain and summer fallow.
- Because of the slope, this soil is best suited to sprinkler irrigation.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Irrigation water management is needed to prevent the buildup of a perched water table and to minimize erosion.
- A wide variety of trees and shrubs can be used for windbreaks and environmental plantings on this soil.
- The seedling mortality rate is severe because the high content of clay causes moisture stress.
- Cultivation or application of herbicides helps to control competing vegetation.

Suitable management practices:
- Irrigate during the dry period in summer.
- Use minimum tillage and return crop residue to the soil to increase the water intake rate and reduce soil compaction.
- Reduce the risk of erosion by chiseling stubble fields on the contour or across the slope in fall.

65B—Deter loam, low precipitation, 0 to 5 percent slopes

Composition

Deter soil and similar inclusions—85 percent
Contrasting inclusions—15 percent

Characteristics of the Deter Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium, lacustrine sediment; source—tuff, basalt, diatomite

Elevation: 4,700 to 5,000 feet
Climatic factors:
Mean annual precipitation—10 to 14 inches
Mean annual air temperature—45 to 48 degrees F
Frost-free period—70 to 110 days
Typical profile:
0 to 7 inches—very dark brown loam
7 to 19 inches—dark brown clay loam
19 to 34 inches—dark reddish brown clay
34 to 46 inches—reddish brown gravelly clay
46 to 60 inches—dark brown gravelly clay loam
Depth class: Very deep (more than 60 inches) to bedrock
Drainage class: Well drained
Permeability: Slow
Available water capacity: About 8 inches
Hazard of erosion by water: Slight or moderate
Shrink-swell potential: High between depths of 7 and 46 inches

Contrasting Inclusions

- Mesman soils that are on adjacent, lower lying lake terraces
- Harriman soils that are on adjacent lake terraces
- Lasere soils that are on adjacent hills and have low sagebrush in the potential plant community
- McConnel soils that are on adjacent, lower lying gravelly lake terraces
- Soils that are similar to the Deter soil but have a hardpan or bedrock at a depth of 40 to 60 inches

Major Uses

Cropland, livestock grazing

Major Management Factors

Permeability, shrink-swell potential, droughtiness, water erosion

Dominant Vegetation in Potential Plant Community

Bluebunch wheatgrass, Idaho fescue, antelope bitterbrush

Livestock Grazing

General management considerations:
- The clayey subsoil restricts rooting depth.
- The low precipitation limits forage production and seedling survival.

Suitable management practices:
- If this unit is seeded, select plants that tolerate droughtiness and shrinking and swelling.
- Seed on the contour to reduce the risk of erosion.
- Delay grazing until the surface layer is firm and the preferred forage plants have achieved sufficient growth to withstand grazing pressure.

Cropland

General management considerations:
- Because of the limited precipitation, continuous cropping is suitable only if the soil is irrigated.
- Suitable irrigation methods include border and sprinkler systems.
- If border irrigation is used, leveling is needed for uniform application of water.
- To avoid exposing the subsoil, land smoothing that involves only shallow cuts is best suited.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Irrigation water management is needed to prevent the buildup of a perched water table and to minimize runoff.
- A wide variety of trees and shrubs can be used for windbreaks and environmental plantings on this soil.
- The seedling mortality rate is severe because the high content of clay causes moisture stress.
- Cultivation or application of herbicides helps to control competing vegetation.

Suitable management practices:
- Irrigate during the dry period in summer.
- Use minimum tillage and return crop residue to the soil to increase the water intake rate and reduce soil compaction.

65C—Deter loam, low precipitation, 5 to 15 percent slopes

Composition

Deter soil and similar inclusions—85 percent
Contrasting inclusions—15 percent

Characteristics of the Deter Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium, lacustrine sediment; source—tuff, basalt, diatomite
Elevation: 4,700 to 5,000 feet
Climatic factors:
Mean annual precipitation—10 to 14 inches
Mean annual air temperature—45 to 48 degrees F
Frost-free period—70 to 110 days
Typical profile:
0 to 7 inches—very dark brown loam
7 to 19 inches—dark brown clay loam
19 to 34 inches—dark reddish brown clay

Contrasting Inclusions

- Pit soils that are on adjacent lake terraces and have dominantly creeping wildrye, Nevada bluegrass, and silver sagebrush in the potential plant community
- Ozamis soils that are on adjacent lake terraces and have dominantly alkali sacaton and alkali bluegrass in the potential plant community
- Thunderegg soils that are on adjacent, slightly lower lying lake terraces and have dominantly tufted hairgrass in the potential plant community

Major Uses

Livestock grazing, wildlife habitat, cropland, hayland

Major Management Factors

Salinity, sodicity, available water capacity, wetness, frost action

Dominant Vegetation in Potential Plant Community

Nuttall alkaligrass, inland saltgrass

Livestock Grazing

General management considerations:

- This unit provides food and cover for wetland wildlife in spring.
- Grazing should be deferred during the period of nesting for waterfowl.
- Grazing when the soil is wet results in compaction and puddling of the surface.
- Salts reduce the amount of water available to plants and restrict seedling survival.
- Excess sodium in the soil results in nutrient imbalances and a caustic root environment.
- Dispersion and crusting of the soil surface reduce infiltration, cause ponding, and restrict seedling emergence and survival.
- The low available water capacity limits forage production and seedling survival.

Suitable management practices:

- Delay grazing until the soil is adequately drained and is firm enough to withstand trampling by livestock.
- If this unit is seeded, select plants that tolerate wetness, strong sodicity, strong salinity, and frost heaving and that provide cover for nesting waterfowl.

Cropland and Hayland

General management considerations:

- The concentration of salts and sodium limits the selection and production of hay and pasture plants and other crops.
- Removing salts and sodium is difficult unless the soil is drained.
- Irrigation may be needed to meet plant needs and leach salts below the root zone.
- Wetness limits the choice of plants and increases the risk of winterkill.
- A high water table early in spring restricts rooting depth and plant survival.
- The seasonal high water table provides supplemental moisture for plants late in summer and in fall.
- Because of a high potential for frost action, plants are subject to winterkill and other damage.
- The soil ties up large amounts of phosphorus, which limits the amount that is available to plants.
- Because of the high corrosivity to uncoated steel and concrete, protection from corrosion or use of noncorrosive material, such as galvanized steel, aluminum, or plastics, is needed for structures or pipelines.
- Irrigation and drainage are needed if this unit is intensively managed.
- The content of sodium in the soil can be reduced by applying proper amounts of soil amendments. Salts can be leached from the soil by applying good-quality irrigation water.
- Unless proper amounts of soil amendments are applied, removing salts causes dispersion and crusting of the soil surface.
- Irrigation water management is needed to prevent a rise in the level of the water table and the subsequent upward movement of salts and sodium in the soil.
- Drainage is difficult because of the nearly level slope and the lack of outlets.
- Trees and shrubs suitable for windbreaks and environmental plantings are limited, and the seedling mortality rate is severe because of the concentration of salts.

153A—McConnel very gravelly sandy loam, 0 to 2 percent slopes

Composition

McConnel soil and similar inclusions—85 percent
Contrasting inclusions—15 percent

Characteristics of the McConnel Soil

Position on landscape: Lake terraces
Parent material: Kind—alluvium; source—tuff, basalt
Elevation: 4,500 to 4,800 feet
Climatic factors:
Mean annual precipitation—8 to 10 inches

Mean annual air temperature—47 to 50 degrees F
Frost-free period—90 to 110 days

Typical profile:
0 to 10 inches—dark yellowish brown very gravelly sandy loam
10 to 22 inches—brown very gravelly coarse sandy loam
22 to 60 inches—multicolored extremely gravelly loamy coarse sand

Depth class: Very deep (more than 60 inches) to bedrock, shallow or moderately deep (10 to 25 inches) to sand and gravel
Drainage class: Somewhat excessively drained
Permeability: Moderately rapid over very rapid
Available water capacity: About 2 inches
Hazard of erosion: By water—slight; by wind—slight or moderate
Carbonates: Between depths of 10 and 22 inches—strongly effervescent

Contrasting Inclusions

- Mesman soils that are on adjacent lake terraces and have dominantly basin big sagebrush and some black sagebrush and basin wildrye in the potential plant community
- Zorravista soils that are on adjacent dunes and have fourwing saltbush in the potential plant community
- Deter soils that are on adjacent, slightly higher lying lake terraces and have dominantly bluebunch wheatgrass in the potential plant community
- McNye soils that are on bedrock-controlled lake terraces
- Soils that have slopes of more than 2 percent

Major Uses

Livestock grazing, cropland

Major Management Factors

Gravel, available water capacity, permeability, seepage, wind erosion

Dominant Vegetation in Potential Plant Community

Indian ricegrass, Thurber needlegrass, Wyoming big sagebrush, needleandthread

Livestock Grazing

General management considerations:
- The low precipitation and low available water capacity limit forage production and seedling survival.
- The risk of seepage and the very rapid permeability of the lower part of the soil limit the construction of livestock watering ponds and other water impoundments.
- This soil is subject to wind erosion if the vegetation is removed or degraded.
- This soil is suited to grazing in winter.
- Range seeding controls blowing and drifting sand.

Suitable management practices:
- Minimize the risk of wind erosion by maintaining adequate plant cover, seeding, and accumulating litter on the soil surface.
- If this unit is seeded, select plants that tolerate droughtiness.

Cropland

General management considerations:
- Irrigation is needed for crops.
- Because of the very rapid permeability of the lower part of the soil and the rapid water intake rate, sprinkler irrigation is best suited to this soil.
- Because of the low available water capacity, light and frequent applications of irrigation water are needed.
- Gravel in the surface layer causes rapid abrasion of tillage equipment.
- Because of the high corrosivity to uncoated steel, protection from corrosion or use of noncorrosive material, such as concrete, aluminum, galvanized steel, or plastics, is needed for structures or pipelines.
- Trees and shrubs for windbreaks and environmental plantings should be tolerant of droughtiness.
- The seedling mortality rate is severe because of the low available water capacity.
- Continuous cultivation, use of mulch, or application of herbicides helps to control competing vegetation and ensure establishment and survival of seedlings.

Suitable management practices:
- Irrigate during the dry period in summer.
- Adjust the application of irrigation water to the available water capacity, the water intake rate, and the needs of the crop grown to avoid overirrigating, control runoff, and prevent leaching of plant nutrients.
- Reduce the risk of wind erosion by planting crops in narrow strips at right angles to the prevailing wind, maintaining crop residue on the surface, and using minimum tillage.

153C—McConnel very gravelly sandy loam, 2 to 15 percent slopes

Composition

McConnel soil and similar inclusions—85 percent
Contrasting inclusions—15 percent

OWRD

GROUNDWATER APPLICATION FEE CALCULATOR

Oregon Water Resources Department
Groundwater Application

Today's Date: Friday, April 17, 2020

Base Application Fee.		$1,340.00
Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)	1.66	$700.00
Number of proposed Use's for the appropriated water. (i.e. Irrigation, Supplemental Irrigation, Pond Maintenance, Industrial, Commercial, etc) *	1	
Number of proposed groundwater points of appropriation. (i.e. number of wells) (include all injection wells, if applicable) **	4	$1,050.00
	Subtotal:	$3,090.00
Permit Recording Fee. ***		$520.00
* the 1st Water Use is included in the base cost. ** the 1st groundwater point of appropriation is included in the base cost. *** the Permit Recording Fee is not required when the application is submitted but, must be paid before a permit will be issued. It is fully refundable if a permit is not issued. If the recording fee is not paid prior to issuance of the Final Order, permit issuance will be delayed.	Recalculate	
Estimated cost of Permit Application		$3,610.00

RECEIVED
NOV 23 2020
OWRD

CASCADE
GEOENGINEERING

21145 Scottsdale DR, Bend, Oregon 97701
360-907-4162 newtonjim@hotmail.com

RECEIVED
NOV 23 2020
OWRD

November 20, 2020

Dwight French, Water Right Services Division Administrator
Oregon Water Resources Department
725 Summer ST NE, Suite A
Salem, Oregon 97301

RE: APPLICATION FOR PERMIT TO USE GROUNDWATER; SUPPLEMENTAL GROUNDWATER IRRIGATION FOR INCREASE IN RATE, WITH ZERO DUTY; COLAHAN ENTERPRISES, INC.; PAISLEY, OREGON

Dear Dwight:

This letter has been prepared by Cascade Geoengineering, LLC (CGE) to accompany a new Application for Permit to Use Groundwater (Application) on behalf of Colahan Enterprises, Inc. (Colahan). This Application was discussed with you on several occasions in 2019 to determine the best avenue to submit the Application in an attempt to increase the authorized flow rate from existing Colahan irrigation wells, without an increase in the duty already authorized under other water right certificates. Based on the rapidly or excessively draining soils in the place of use, the increase in flow rate assists Colahan in applying irrigation water that meets crop needs, while also reducing the potential for mineral buildup in the irrigated soils-the Colahan wells have elevated temperatures from geothermal heat sources in the area of Paisley, Oregon

If you have questions regarding this memorandum, please feel free to contact me at your convenience, I can be reached by telephone at 360-907-4162, or email newtonjim@hotmail.com.

Sincerely,

Jim Newton, PE, RG, CWRE
Principal – Engineer-Geologist
Cascade Geoengineering, LLC

E-2 App
☐ Yes
☒ No

Standard Application Completeness Checklist

Groundwater and Surface Water Applications Only

Minimum Application Requirements (OAR 690-310-0040 &-0050)

For use by WRD staff only

Application #:	G-19043	Receipt #:	133991
Applicant Name:	Colahan Enterprises inc.	Amount Requested:	745 GPM = 1.66 cfs
Priority Date:	11/23/2020	Proposed Use:	$ SUIR
County:	Lake County	POD's TRS &TL:	33s, 18E, 13,14,23,24
WM #:	12	Caseworker:	☐ KF ☒ LG
Reviewed by:	CM	Reviewed Date:	12/2/2020

903 802
801 1300

☒ Applicant/Organization Name and Mailing Address

☒ Signature of **all** applicants (include title or authority of representative if applicant is an organization or corporation). Note: Applicant's agent may NOT sign the application on behalf of the applicant.

☒ Property Ownership: Does the applicant own all the land for the proposed project? ☒ Yes ☐ No

If No:

☒ The affected landowner's name(s) and mailing address(s) must be listed.

☒ A signed statement declaring the existence of either written authorization or an easement permitting access to land crossed by the proposed ditch canal or other work must be submitted.

☒ **For a SW Application:** Source of water must be indicated.

☒ If the source is stored water, is the stored water component filled out and does the applicant own the reservoir or include a non-expired agreement for stored water? (ORS 537.400)

☒ If for stored water, is the source authorized under a permit, certificate, or decree?

Permit or Certificate issued: ☐ Y ☐ N Permit or Certificate #: _____

NOTE: An expedited secondary (E2) application and a reservoir application cannot be filed at the same time. The reservoir must be legally authorized first, under an existing water right, in order to accept and process an E2 application.

☒ **For a GW Application:** Well development table completed and a well log report included (if existing)

☒ Division 33 (Sensitive, Threatened, Endangered, Fish Species)

☒ Proposed Water Use:

☒ Amount of water from *each* source in GPM, CFS, or AF

☒ Period of use indicated

☒ If for supplemental irrigation, primary acreage or underlying permit or certificate number listed.
(Note: Primary and Supplemental Irrigation counts as 2 uses)

☒ Water Management Section

☒ Resource Protection Section

☒ Project schedule. (Note: If system is already completed, indicates "existing.", (Note: Estimates are okay if the water system has not been designed))

☒ Supplemental data sheets enclosed (if needed)

☒ Form M (Municipal or Quasi-Municipal)

☒ A completed **Land-Use Form** or receipt signed and dated by the appropriate planning department. Please be certain that the Land-Use form lists all lands involved and all uses proposed. Date of signature must be within the past 12 months.

☒ A **Legal Description** of all the properties involved where water is diverted, conveyed, and used. The legal description includes a metes and bounds or other government survey description. A copy of the deed, land sales contract or title insurance policy can provide this information, or applicant may submit a lot book report prepared by a title company. Copies of tax bills are not acceptable

☒ The proposed source ☐ **IS** ☒ **IS NOT** restricted or withdrawn from further appropriation. **NOTE:** If it is withdrawn under ORS 538, reject/return application and fees.

☒ The **map** must meet all the minimum requirements of OAR 690-310-0050.

- ☒ Township, Range, Section
- ☒ Location of main canals, ditches, pipelines or flumes (if POA/POD is outside of POU)
- ☒ Place of use, ¼-¼'s and tax lot clearly identified
- ☒ Even map scale not less than 4" = 1 mile (1"= 1320 ft.); examples: 1" = 100 ft., 1" = 200 ft.
- ☒ Location of **each** diversion point or well by reference to a recognized public land survey corner.
- ☒ Multiple wells shall be uniquely labeled, and identified on well logs, if existing.
- ☒ Reference corner on map
- ☒ North directional symbol
- ☒ Number of acres per ¼ ¼ if for irrigation, nursery, or agriculture

☒ **Fees:** Amount of Water Requested: 1.66 cfs Name on Check: Colahan Enterprises, Inc.

Exam Fee Due:	$ 3090.00	
Exam Fee Submitted:	$ 3090.00	
Difference:	$ 0	
Recording Fee Paid?	☒ Yes ☐ No $	520.00
Total:	$ 3610.00	

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

December 2, 2020

Dear Applicant:

The Oregon Water Resources Department has received your groundwater application for a water use permit. Your application has been assigned file number G-**19043.** Please refer to this number when contacting the Department. Should you have any questions about your application, please contact the following Water Rights Specialist assigned to your application:

Lisa Graham, Water Rights Specialist	Phone: 503-986-0808
	Email: elisabeth.a.graham@oregon.gov

A description of the steps that are used for processing a water right application are shown on the reverse side of this letter.

The first step in the water rights process is the completion of a groundwater review by the Department. This review can take approximately 6-9 months to complete, sometimes longer. Once the groundwater review is completed, you will receive a copy of an Initial Review that summarizes the Department's preliminary determinations. Copies of the Proposed Final Order and Final Order will also be mailed to you.

Please note that your application is subject to review and comment from other state agencies and interested parties.

Sincerely,

Cory Middleton
Customer Service Representative
Oregon Water Resources Department

cc: File
Jim Newton Cascade Geoengineering, LLC, Agent.

Water-Use Permit Application Processing Steps

Oregon Water Resources Department

1. **Initial Review**

   The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus $260. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

2. **Public Notice**

   Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

3. **Proposed Final Order Issued**

   The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the Initial Review, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

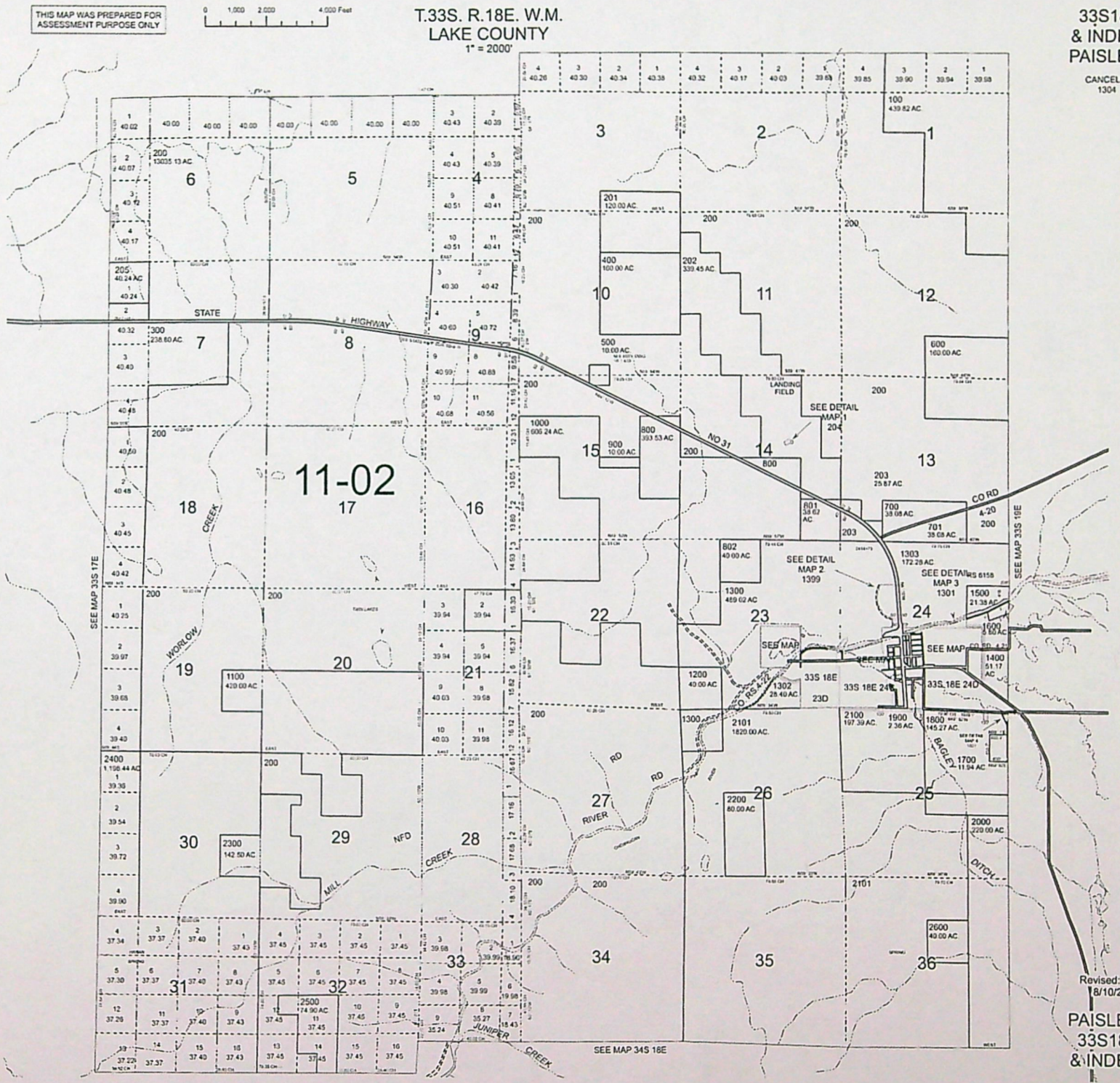
4. **Public Notice**

   Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is $410.00 for the applicant and $810.00 for non-applicants. Protests are filed on approximately 10 percent of Proposed Final Orders. If a protest is filed the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

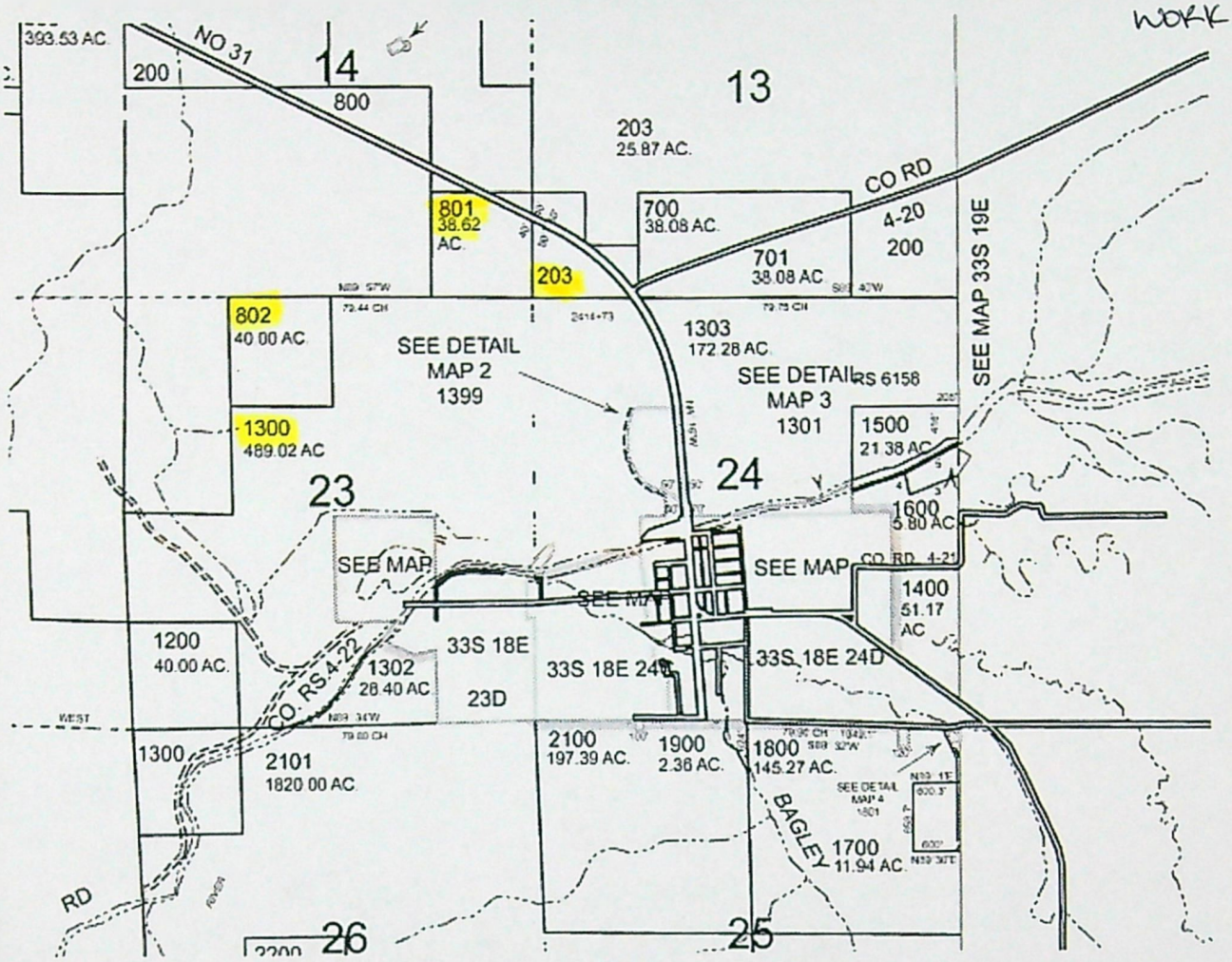
5. **Final Order Issued**

   If no protests are filed, the Department can issue a Final Order within 60 days of the close of the period for receiving protest. If the application is approved, a permit is issued. The permit will specify the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

WORK COPY


THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY
0 1,000 2,000 4,000 Feet
T.33S. R.18E. W.M.
LAKE COUNTY
1" = 2000'
33S18E & INDEX PAISLEY
CANCELLED: 1304
11-02
STATE HIGHWAY NO 31
CO RD 4-20
LANDING FIELD
SEE DETAIL MAP 1
SEE DETAIL MAP 2 1399
SEE DETAIL MAP 3 1301
SEE MAP 33S 17E
SEE MAP 33S 19E
SEE MAP 34S 16E
WORLOW CREEK
MILL CREEK
NFD
JUNIPER CREEK
RIVER
BAGLEY DITCH
33S 18E 24D
Revised: MA 8/10/2011
PAISLEY 33S18E & INDEX

WORK COPY


393.53 AC.
NO 31
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33S 18E
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28.40 AC
33S 18E 24C
33S 18E 24D
CO RS 4-22
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197.39 AC.
1900
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1800
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1300
2101
1820.00 AC
SEE DETAIL
MAP 4
1801
BAGLEY
1700
11.94 AC.
RD
26
25

Oregon Water Resources Department
Groundwater Application

Today's Date: Wednesday, December 2, 2020

Base Application Fee.		$1,340.00
Number of proposed cubic feet per second (cfs) to be appropriated. (1 cfs = 448.83 gallons per minute)	1.66	$700.00
Number of proposed Use's for the appropriated water. (i.e. Irrigation, Supplemental Irrigation, Pond Maintenance, Industrial, Commercial, etc) *	1	
Number of proposed groundwater points of appropriation. (i.e. number of wells) (include all injection wells, if applicable) **	4	$1,050.00
	Subtotal:	$3,090.00
Permit Recording Fee. ***		$520.00
* the 1st Water Use is included in the base cost. ** the 1st groundwater point of appropriation is included in the base cost. *** the Permit Recording Fee is not required when the application is submitted but, must be paid before a permit will be issued. It is fully refundable if a permit is not issued. If the recording fee is not paid prior to issuance of the Final Order, permit issuance will be delayed.	Recalculate	
Estimated cost of Permit Application		$3,610.00

OREGON
WATER RESOURCES DEPARTMENT

RECEIVED
NOV 23 2020
OWRD
Date Received (Date Stamp Here)

OWRD Over-the-Counter Submission Receipt

Applicant Name(s) & Address: Colahan Enterprises, INC.
45190 Hwy 31, Paisley OR 97636 - 0300

Transaction Type: GW Application

Fees Received: $ 3610.00

☐ Cash ☒ Check: Check No. 6272

Name(s) on Check: SAME

Address on Check: SAME

Thank you for your submission. Oregon Water Resources Department (Department) staff will review your submittal as soon as possible.

If your submission is determined to be complete, you will receive a receipt for the fees paid and an acknowledgement letter stating your submittal is complete.

If determined to be incomplete, your submission and the accompanying fees will be returned with an explanation of deficiencies that must be addressed in order for the submittal to be accepted.

If you have any questions, please feel free to contact the Department's Customer Service staff at 503-986-0801 or 503-986-0810.

Sincerely,
OWRD Customer Service Staff

Submission received by: C. Middleton
(Name of OWRD staff)

Instructions for OWRD staff:

- Complete this Submission Receipt, and make two (2) copies. Place one copy with the check/cash; and place the other copy with the submission (*i.e., the application or other document*).
- Date-stamp all pages. (*NOTE: Do not stamp check.*)
- Give this original Submission Receipt to the applicant.
- Record Submission Receipt information on the "*RECEIVED OVER THE COUNTER*" log sheet.
- Place the Submission Receipt with check/cash in the small top drawer (*i.e., "Fiscal Pick Up Drawer"*). Place the Submission Receipt with submission (*application/other document*) in the large bottom drawer.

OREGON
WATER RESOURCES DEPARTMENT

RECEIVED
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OWRD
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OWRD Over-the-Counter Submission Receipt

Applicant Name(s) & Address: Clahan Enterprises, INC.
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Sincerely,
OWRD Customer Service Staff

Submission received by: C. Middleton
(Name of OWRD staff)

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- Place the Submission Receipt with check/cash in the small top drawer (*i.e., "Fiscal Pick Up Drawer"*). Place the Submission Receipt with submission (*application/other document*) in the large bottom drawer.

STATE OF OREGON

WATER RESOURCES DEPARTMENT

RECEIPT # 133991

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Colahan Enterprises, Inc.

BY: _____

APPLICATION	G-19043
PERMIT	
TRANSFER	

CASH: ☐ CHECK: ☒ 6272 OTHER: (IDENTIFY) ☐ _____

TOTAL REC'D $ 3610.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES		$
_____	OTHER:	(IDENTIFY) _____	$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

46111

MISCELLANEOUS

0407	COPY & TAPE FEES		$
0410	RESEARCH FEES		$
0408	MISC REVENUE: (IDENTIFY)	_____	$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$
0240	EXTENSION OF TIME		$

WATER RIGHTS:

		EXAM FEE		RECORD FEE
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$ 3,090.00	0204	$ 520.00
0205	TRANSFER	$		

WELL CONSTRUCTION

		EXAM FEE		LICENSE FEE
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY

LIC NUMBER

0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

RECEIVED
OVER THE COUNTER

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR # _____

DESCRIPTION _____ $ _____

RECEIPT: 133991 DATED: 11-23-2020 BY: _____

Distribution – White Copy - Customer, Yellow Copy - Fiscal, Blue Copy - File, Buff Copy - Fiscal

STATE OF OREGON

WATER RESOURCES DEPARTMENT

RECEIPT # 133991

725 Summer St. N.E. Ste. A
SALEM, OR 97301-4172
(503) 986-0900 / (503) 986-0904 (fax)

INVOICE # _____

RECEIVED FROM: Colahan Enterprises Inc

BY: _____

APPLICATION	G-19043
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # ☒ 6272 ☐ OTHER: (IDENTIFY) _____

TOTAL REC'D $ 3610.00

1083 TREASURY 4170 WRD MISC CASH ACCT

0407	COPIES		$
_____	OTHER: (IDENTIFY)	_____	$

0243 I/S Lease _____ 0244 Muni Water Mgmt. Plan _____ 0245 Cons. Water _____

4270 WRD OPERATING ACCT

46111

	MISCELLANEOUS		
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0410	RESEARCH FEES		$
0408	MISC REVENUE: (IDENTIFY)	_____	$
TC162	DEPOSIT LIAB. (IDENTIFY)	_____	$
0240	EXTENSION OF TIME		$

		EXAM FEE		RECORD FEE
	WATER RIGHTS:			
0201	SURFACE WATER	$	0202	$
0203	GROUND WATER	$ 3,090.00	0204	$ 520.00
0205	TRANSFER	$		

		EXAM FEE		LICENSE FEE
	WELL CONSTRUCTION			
0218	WELL DRILL CONSTRUCTOR	$	0219	$
	LANDOWNER'S PERMIT		0220	$

_____ OTHER (IDENTIFY) _____

0536 TREASURY 0437 WELL CONST. START FEE

0211	WELL CONST START FEE	$	CARD #	
0210	MONITORING WELLS	$	CARD #	

_____ OTHER (IDENTIFY) _____

0607 TREASURY 0467 HYDRO ACTIVITY

		LIC NUMBER	
0233	POWER LICENSE FEE (FW/WRD)		$
0231	HYDRO LICENSE FEE (FW/WRD)		$
_____	HYDRO APPLICATION		$

_____ TREASURY OTHER / RDX

FUND _____ TITLE _____

OBJ. CODE _____ VENDOR# _____

DESCRIPTION _____ $ _____

RECEIVED OVER THE COUNTER

RECEIPT: 133991 DATED 11-23-2020 BY: _____

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