

STATE OF OREGON

COUNTY OF BAKER

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

MOOSE CREEK INVESTMENTS LLC  
PO BOX 14001-363  
KETCHUM, ID 83340

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-18070

SOURCE OF WATER: WELL 1 IN SUTTON CREEK BASIN AND WELL 2 AND WELL 3 IN  
POWDER RIVER BASIN

PURPOSE OR USE: SUPPLEMENTAL IRRIGATION OF 1393.0 ACRES

MAXIMUM RATE: 6.68 CUBIC FEET PER SECOND

PERIOD OF USE: MARCH 1 THROUGH OCTOBER 31

DATE OF PRIORITY: MAY 1, 2015

WELL LOCATIONS:

WELL 1: NE  $\frac{1}{4}$  NW  $\frac{1}{4}$ , SECTION 23, T9S, R40E, W.M.; 1265 FEET SOUTH AND  
1570 FEET EAST FROM NW CORNER, SECTION 23

WELL 2: NE  $\frac{1}{4}$  SW  $\frac{1}{4}$ , SECTION 14, T9S, R40E, W.M.; 2188 FEET NORTH AND  
1556 FEET EAST FROM NW CORNER, SECTION 23

WELL 3: SE  $\frac{1}{4}$  NE  $\frac{1}{4}$ , SECTION 15, T9S, R40E, W.M.; 3800 FEET NORTH AND  
1105 FEET WEST FROM NW CORNER, SECTION 23

The amount of water used for irrigation under this right, together with  
the amount secured under any other right existing for the same lands, is  
limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and  
3.0 acre-feet for each acre irrigated during the irrigation season of  
each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  39.4 ACRES  
NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  40.0 ACRES  
NW  $\frac{1}{4}$  SE  $\frac{1}{4}$  40.0 ACRES  
SW  $\frac{1}{4}$  SE  $\frac{1}{4}$  39.0 ACRES  
SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  40.0 ACRES  
SECTION 10

NE ¼ NE ¼ 40.0 ACRES  
NW ¼ NE ¼ 31.5 ACRES  
SW ¼ NE ¼ 40.0 ACRES  
SE ¼ NE ¼ 40.0 ACRES  
NE ¼ NW ¼ 40.0 ACRES  
SW ¼ NW ¼ 40.0 ACRES  
SE ¼ NW ¼ 40.0 ACRES  
NE ¼ SW ¼ 40.0 ACRES  
NW ¼ SW ¼ 40.0 ACRES  
SW ¼ SW ¼ 40.0 ACRES  
SE ¼ SW ¼ 40.0 ACRES  
NE ¼ SE ¼ 39.6 ACRES  
NW ¼ SE ¼ 39.6 ACRES

SECTION 11

NW ¼ NE ¼ 20.0 ACRES  
SW ¼ NE ¼ 15.0 ACRES  
NE ¼ NW ¼ 40.0 ACRES  
NW ¼ NW ¼ 37.5 ACRES  
SW ¼ NW ¼ 40.0 ACRES  
SE ¼ NW ¼ 36.0 ACRES  
NE ¼ SW ¼ 7.9 ACRES  
NW ¼ SW ¼ 40.0 ACRES  
SW ¼ SW ¼ 40.0 ACRES  
SE ¼ SW ¼ 6.5 ACRES

SECTION 14

NE ¼ NE ¼ 37.0 ACRES  
SE ¼ NE ¼ 9.6 ACRES  
SE ¼ NW ¼ 5.0 ACRES  
NE ¼ SW ¼ 8.5 ACRES  
SE ¼ SW ¼ 10.5 ACRES  
NE ¼ SE ¼ 25.9 ACRES  
NW ¼ SE ¼ 31.0 ACRES  
SW ¼ SE ¼ 40.0 ACRES  
SE ¼ SE ¼ 40.0 ACRES

SECTION 15

NE ¼ NE ¼ 24.6 ACRES  
NW ¼ NE ¼ 23.2 ACRES  
NE ¼ NW ¼ 7.0 ACRES

SECTION 22

NW ¼ NW ¼ 21.2 ACRES  
SW ¼ NW ¼ 30.4 ACRES  
SE ¼ NW ¼ 30.3 ACRES  
NE ¼ SW ¼ 28.4 ACRES  
NW ¼ SW ¼ 28.4 ACRES

SECTION 23

TOWNSHIP 9 SOUTH, RANGE 40 EAST, W.M.

Measurement devices, and recording/reporting of annual water use conditions:

- 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 diverted each month, and shall submit a report which includes 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.

Static Water Level Conditions

The Department requires the water user to obtain, from a qualified individual (see below), and report annual static water levels for each well on the permit. The static water level shall be measured in the month of March. Reports shall be submitted to the Department within 30 days of measurement.

The permittee shall report an initial March static water-level measurement once well construction is complete and annual measurements thereafter. Annual measurements are required whether or not the well is used. The first annual measurement will establish a reference level against which future measurements will be compared. However, the Director may establish the reference level based on an analysis of other water-level data. The Director may require the user to obtain and report additional water levels each year if more data are needed to evaluate the aquifer system.

All measurements shall be made by a certified water rights examiner, registered professional geologist, registered professional engineer, licensed well constructor or pump installer licensed by the Construction Contractors Board. Measurements shall be submitted on forms provided by, or specified by, the Department. Measurements shall be made with equipment that is accurate to at least the standards specified in OAR 690-217-0045. The Department requires the individual performing the measurement to:

- A. Associate each measurement with an owner's well name or number and a Department well log ID; and
- B. Report water levels to at least the nearest tenth of a foot as depth-to-water below ground surface; and
- C. Specify the method of measurement; and
- D. Certify the accuracy of all measurements and calculations reported to the Department.

The Department may require the discontinuance of groundwater use, or reduce the rate or volume of withdrawal, from the well(s) if any of the following events occur:

- A. Annual water-level measurements reveal an average water-level decline of three or more feet per year for five consecutive years; or
- B. Annual water-level measurements reveal a water-level decline of 15 or more feet in fewer than five consecutive years; or
- C. Annual water-level measurements reveal a water-level decline of 25 or more feet; or
- D. Hydraulic interference leads to a decline of 25 or more feet in any neighboring well with senior priority.

The period of restricted use shall continue until the water level rises above the decline level which triggered the action or the Department determines, based on the permittee's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or causing substantial interference with senior water rights. The water user shall not allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit. If more than one well is involved, the water user may submit an alternative measurement and reporting plan for review and approval by the Department.

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.

The wells shall be constructed to produce only from the volcanic aquifer beneath the valley-fill alluvium, the top of which typically occurs at a depth of 600-900 feet below land surface.

Each well shall be continuously cased and continuously sealed at least 10 feet into volcanic rock.

The open interval below the casing shall extend no more than 200 feet into the volcanic aquifer. However, a larger open interval may be approved by the Department if the applicant can demonstrate to the satisfaction of the Department that each well is only open to a single aquifer. Substantial evidence of a single aquifer completion may be collected by video log, downhole flowmeter, water chemistry and temperature, or other downhole geophysical methods approved by the Department. These methods shall characterize the nature of the basalt rock and assess whether water is moving in the borehole. Any discernable movement of water within the well bore when the well is not being pumped shall be assumed as evidence of the presence of multiple aquifers in the open interval.

Drill cuttings shall be collected at 10-foot intervals and at changes in lithology in the well, and a labeled split of each sampled interval shall be provided to the Department.

For each well drilled under this permit, a constant-rate aquifer test shall be conducted to determine aquifer properties and to assess the potential impacts from use of the well before beneficial use begins. The test shall be designed and conducted by an Oregon Registered Geologist and the test design shall be subject to the approval of the Groundwater Section of the Department prior to the test. At a minimum, the test shall include discharge and water-level measurements in the pumping well and simultaneous water-level measurements in all other wells drilled under this water right. Pumping duration for the test shall be determined by the Department after well yield and specific capacity are determined. The requirement for a constant-rate aquifer test on each well may be waived if a multiple-well aquifer test is performed involving all permitted wells on this water right within five years of the date of permit issuance. The results of each aquifer test shall be presented in a report to the Department that includes an analysis of aquifer properties, aquifer boundaries, and the potential impact on nearby wells that is likely to occur over the duration of an irrigation season if the well is used at the licensed rate and duty.

Copies of all geologic and hydrogeologic reports completed for the permittee during the development of the well, including geophysical well logs and borehole video logs, shall be provided to the Department. Except for borehole video logs, two paper copies, or a single electronic copy, shall be provided of each report. Digital tables of any data shall be provided upon request.

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.

**STANDARD CONDITIONS**

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

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 be subject to cancellation, unless the Department authorizes the change in writing.

If substantial interference with surface water or a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The well(s) shall be constructed and maintained in accordance with the General Standards for the Construction and Maintenance of Water Supply Wells in Oregon. The works shall be equipped with a usable access port adequate to determine water-level elevation in the well at all times.

If the riparian area is disturbed in the process of developing a point of appropriation, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. For purposes of mitigation, the ODFW Fish and Wildlife Habitat Mitigation Goals and Standards, OAR 635-415, shall be followed.

The use may be restricted if the quality of downstream waters decreases to the point that those waters no longer meet state or federal water quality standards due to reduced flows.

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Prior to receiving a certificate of water right, the permit holder shall submit to the Water Resources Department the results of a pump test meeting the Department's standards for each point of appropriation (well), unless an exemption has been obtained in writing under OAR 690-217. The Director may require water-level or pump-test data every ten years thereafter.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Construction of the well shall be made 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 begin construction deadline is missed.

Complete application of the water shall be made within five years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after making beneficial use of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued *MARCH 30 2016*

*E. Timothy Wallin*

E. Timothy Wallin, Water Rights Program Manager  
for Thomas M. Byler, Director