# EMERGENCY DROUGHT APPLICATION: GROUNDWATER REVIEW

TO: Water Rights Section Date **21 May 2014**

FROM: Groundwater Section **Gerald H. Grondin**
Reviewer's Name

SUBJECT: Application **G- 17857**

This review is based on authorities laid out in OAR 690-019 Drought Mitigation rules. This is an expedited review to evaluate an emergency request for groundwater use for one season under a Governor's drought declaration. Notwithstanding groundwater availability, stability of the groundwater resource, and surface water and Scenic Waterway considerations, the Department may issue a drought permit for short-term emergency use provided that there is no injury and that the use is within the public interest as per OAR 690-019-0040(3).

**A. GENERAL INFORMATION:** Applicant's Name: **James William Votto** County: **Lake**

A1. Applicant(s) seek(s) **(521.7 gpm) 1.16** cfs from **1** well(s) in the **Goose & Summer Lakes** Basin, **Thomas Creek watershed in the Goose Lake** subbasin Quad Map: **Lakeview NW**

A2. Proposed use **Irrigation (93 acres)** Seasonality: **1 April to 1 October (184 days)**

A3. Well and aquifer data **(attach and number logs for existing wells; mark proposed wells as such under logid)**:

| Well | Logid | Applicant's Well # | Proposed Aquifer* | Proposed Rate(cfs) | Location (T/R-S QQ-Q) | Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36 |
|---|---|---|---|---|---|---|
| 1 | **Not drilled yet** | **Well 1** | **Basin Fill Seds** | **1.16** | **39S/19E-sec 14 ABB** | **132'S, 2112'W fr NE cor S 14** |
| 2 | | | | | | |

- Alluvium, CRB, Bedrock, Volcanics

**Fill out the following from the application for each well not yet drilled or no log available; otherwise, attached well reports**

| Well | Well Depth (ft) | Seal Interval (ft) | Casing Intervals (ft) | Liner Intervals (ft) | Perforations Or Screens (ft) | Well Yield (gpm) |
|---|---|---|---|---|---|---|
| 1 | **~350** | **~0-126** | **~+2-350** | **N.A.** | **~130-350** | **~1300** |
| 2 | | | | | | |

**The proposed well construction is based upon well LAKE 52338 in T39S/R19E-sec 15 as noted in the drought permit application.**

Is there information that this drought groundwater use will injure senior spring or surface water rights during the duration of the drought declaration? (☒**Yes**) (☐**No**) If yes, explain:

**Consultation with the watermaster and OWRD management is needed to determine if the following is fatal to issuing a drought permit or not.**

**Groundwater and surface water are hydraulically connected in the Goose Lake sub-basin (see Morgan, 1988).**

**There are two springs identified. The first spring is located about 1310 feet (0.25 mile) west of the proposed POD well site. The associated water right is certificate 66628 (file S-56450, priority date = 18 August 1997, rate = 0.57 cfs, POU = 22.7 primary acres). The source is identified as "spring/seepage." The watermaster should be consulted as to whether there has been regulation related to the spring and how consistently the spring flows.**

**The second spring is located about 10,750 feet (2.04 mile) south at the SE corner of section 23. The spring is identified on the USGS map. OWRD water right data shows an adjoining water right in that area, certificate 53537 (file S-58711, priority date 24 May 1979, rate 0.37 cfs, POU = 14.8 primary acres). The source is identified as "un-named drain." It is uncertain if the drain is associated with the spring. The watermaster can answer that question. The watermaster should be consulted as to whether there has been regulation related to the spring and/or drain and how consistently the spring and drain flows.**

**The well is located between Cottonwood Creek and Thomas Creek. Both are identified as perennial streams. Parts of OAR 690-513-0030 may apply, particularly section (2)(d)(D). The proposed well location is adjacent to a drainage considered tributary to Thomas Creek. However, the portion of that tributary near the well is identified as intermittent. The watermaster and OWRD management need to determine how the rule does or does not apply in this situation.**

**There are a number of other surface water rights in the area, but they are associated with runoff catchment reservoirs within intermittent drainages.**

Is there information that this drought groundwater use will injure senior groundwater rights during the duration of the drought declaration? (☐**Yes**) (☒**No**) If yes, explain.

**The closest water right well is located about 1,500 feet (0.28 mile) from the proposed POD well site. A Theis equation calculation indicates the proposed pumping at the proposed POD well could possibly lower the groundwater level at the nearest water right well from 15 to 35 feet. That well should be able to accommodate the additional seasonal drawdown.**

Groundwater (☒**is**) (☐**is not**) available within the capacity of the resource.

**The long-term groundwater levels show a climate influence. There is also a short-term annual seasonal groundwater use influence. Apart from these, the overall groundwater level trend in this area is not conclusive at this time.**

There (☐**is**) (☒**is not**) a preponderance of evidence that the proposed short-term emergency groundwater use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway.

**No scenic waterway area.**

Proposed Permit Conditions:

**If a permit is issued, include:**

**Condition 7B (interference condition). Note that drought permits are very junior rights and vulnerable to regulation.**

**Condition 7F (proposed well location condition)**

**Condition 7P (well tag)**

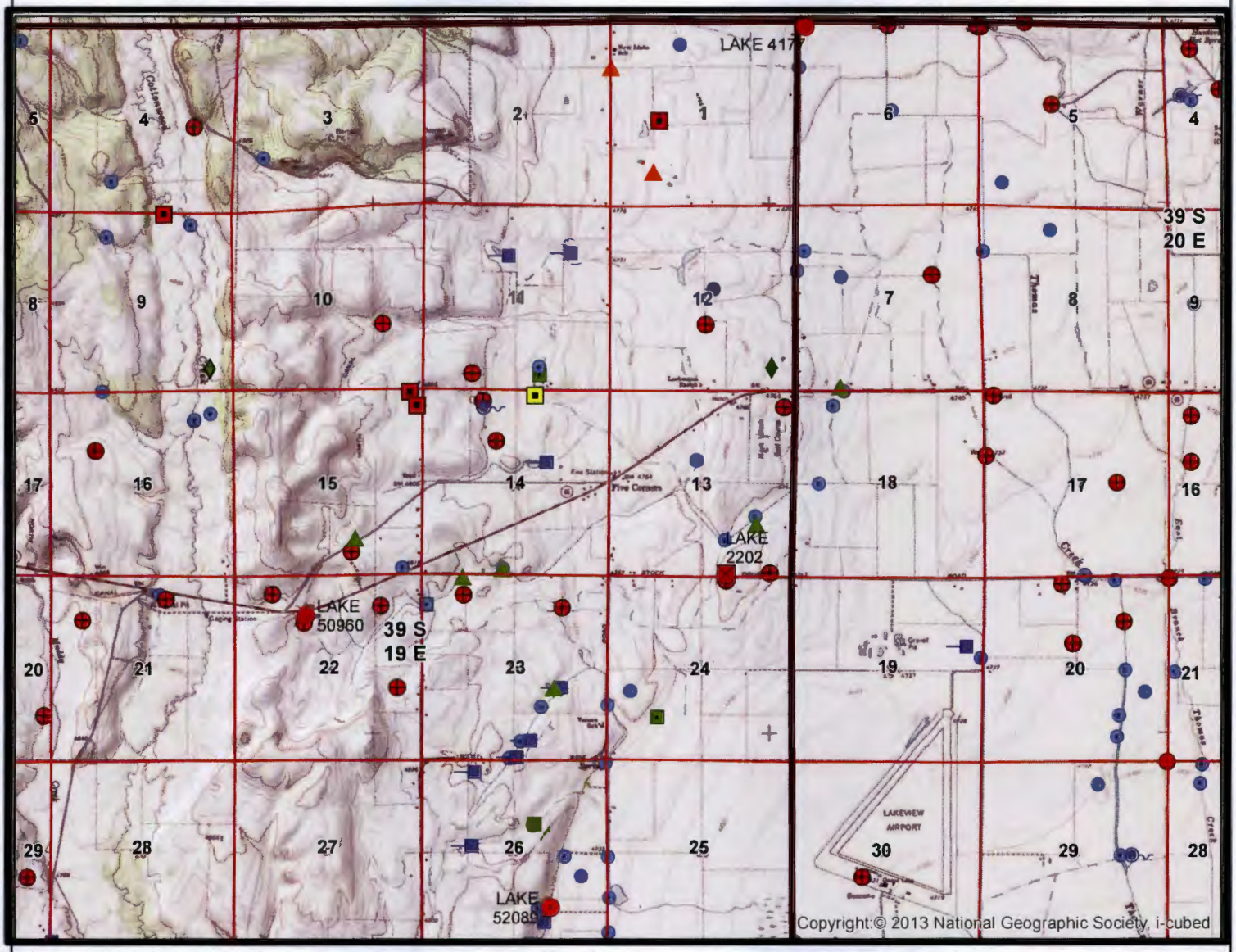
**Condition 7T (dedicated measuring tube)**

**"Large" water use condition (totalizing flowmeter required for each well). Note that "The readings must be reported to the Department by 15 November."**

**Special condition for drought static groundwater level measurement and reporting: "The static groundwater level at the well(s) must be measured to the nearest 0.10 foot and recorded and reported to the Department within 7 days prior to drought groundwater pumping at the well(s) begins, and subsequently measured to the nearest 0.10 foot (inch), recorded, and reported to the Department at the end of drought groundwater pumping at the well(s). The last measurement must be reported to the Department by 15 November of the same year."**

**Special Condition (well construction): "The POA well(s) shall be constructed to obtain groundwater only from the predominantly basin-fill unit as proposed in the drought groundwater permit application, not from the underlying predominantly volcanic/basalt unit.**

# Groundwater Permit Application G-17857
# James William Votto



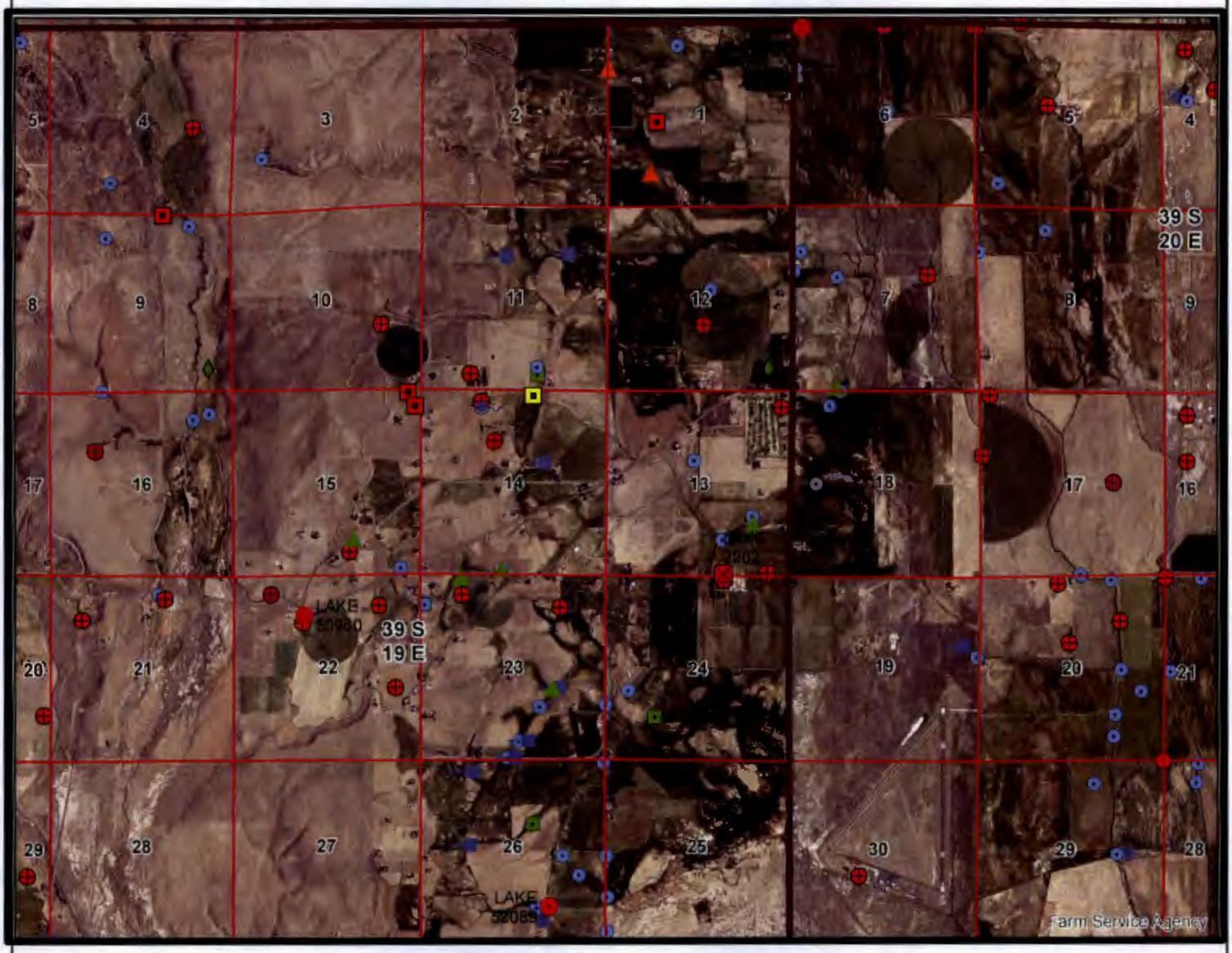

0 0.5 1 2
Miles

**Yellow = Application Noted Well(s)**
**Red = Other Existing or Proposed Wells**

**Blue and Other = surface water rights**

N

# Groundwater Permit Application G-17857
# James William Votto




0 0.5 1 2
Miles

**Yellow = Application Noted Well(s)**
**Red = Other Existing or Proposed Wells**

**Blue and Other = surface water rights**

N