

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14810

GW Reviewer Byron Ebner Date Review Completed: 3/6/2026

Summary of Same Source Review:

The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

Summary of Water Level Decline Condition Review:

Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

Summary of Injury Review:

The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

Summary of GW-SW Transfer Similarity Review:

The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.



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Ground Water Review Form:

- Water Right Transfer
- Permit Amendment
- GR Modification
- Other

Application: T-14810

Applicant Name: McPherson Properties LLC

Proposed Changes: POA APOA SW→GW RA
 USE POU OTHER

Reviewer(s): Byron Ebner

Date of Review: 2/18/2026

Date Reviewed by Basin Hydrogeologist and Returned to WRSD: GCF 3/6/26

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

- The water well reports provided with the application do not correspond to the water rights affected by the transfer.
- The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.
- Other _____

1. Basic description of the changes proposed in this transfer: Permit Amendment for G-15267 to change location for proposed Well #3 location approximately 2,000 ft NW of original proposed location.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: POA 1 (KLAM 53940) and POA 2 (KLAM 60671) develop water from the volcanic aquifer. Proposed depth for POA 3 is 700 ft, seal depth is 450 ft and source aquifer is listed as basalt.
3. a) Is the existing authorized POA subject to a water level decline condition?
 Yes No Comments: Reference Permit: G-15267
 a) Decline condition: Following the first year of water use, the user shall submit one static water level measurement in the month specified (March) above which will establish the reference level against which future annual measurements will be compared. 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 contractor's board.

The water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well (s) if annual water level measurements reveal any of the following events:

- An average water level decline of three or more feet per year for five consecutive years; or

- A water level decline of 15 or more feet in fewer than five consecutive years; or
- A water level decline of 25 or more feet; or
- Hydraulic interference leading to a decline of 25 or more feet in any neighboring well with senior priority.

b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded:

POA 1: 12.02 ft BLS (4072.21 ft AMSL) on 3/17/2005

POA 2: 77.14 ft BLS (4040.11 ft AMSL) on 3/15/2022

Hydrograph with trigger levels is included as Figure 2. Decline conditions have not yet been exceeded for POA 1 & 2. Another hydrograph with additional nearby wells is included as Figure 3.

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
 Yes No Comments: _____
- b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.):
5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?
 Yes No Comments: Closest GW right: Cert 86472 (KLAM 52916) is 6,180 ft from the initial proposed location for POA 3. The new proposed location for POA 3 is 4,480 ft from KLAM 52916. The reduced distance between the proposed location and KLAM 52916 will likely result in an increase in interference.
- b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?
 Yes No If yes, explain: Given the highly transmissive nature and thickness of the volcanic aquifer in this area, it is unlikely that the change in the proposed location of POA 3 would result in another right not receiving the water to which it is legally entitled to. Additionally, the decline conditions associated with Permit G-15267 should help prevent or remedy any case of injury that results from this permit amendment. Specifically, the conditions that outline discontinuance or reduction of use in the event of 25 ft or more of water level decline in this or any neighboring wells.

A Theis drawdown analysis was performed using aquifer parameters given in (Gannett et al., 2007) and pump tests in T40S-R09E in our Pump Test database. A screenshot of the analysis and parameters used is included below as Figures 4 & 5. Using the most conservative estimate and pumping at max rate for 214 days, the estimated increase in drawdown from the proposed change would be an additional 0.93 ft resulting in a maximum drawdown of 19.98 ft. The estimate considers pumping from both the proposed POA as well as the affected well (KLAM 52916). The results of this estimate suggest that injury is unlikely to occur as a result of the proposed change.

6. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?
- Yes No Comments: The original proposed location for POA 3 is 17,950 ft SE of the Klamath River. The new proposed location for POA 3 is moving approximately 1,750 ft closer to the Klamath River (16,200 ft to SE). The reduced distance from the new location to the river will likely result in an increase in interference.
- b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?
- Stream: Klamath River Minimal Significant
- Stream: _____ Minimal Significant
- Provide context for minimal/significant impact: Given the highly transmissive nature of the volcanic rock and overlying sediments of the area, along with the relatively minor reduction in distance to the Klamath River, the expected change in degree of interference with the Klamath River associated with the proposed change is likely to be minimal.
7. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?
- Yes No Comments: _____
8. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
9. Any additional comments: The second hydrograph (Figure 3) shows POA 1 (KLAM 53940) tracks very well with the KLAM 52916 and KLAM 53771. However, the Spring 2025 water level for nearby POA 2 (KLAM 60671) is approximately 22 ft lower than POA 1 while still following the general trend exhibited by the other wells. This may be due to widespread faults in the area creating preferential pathways between some faults more than others. Due to the proximity of the proposed location to KLAM 53771, it is likely that the water levels will be similar to the shallower water levels shown by the selected hydrograph wells and POA 1. Once the construction of POA 3 is complete and a ground water level trend is established for that location, a reference level will need to be set for the well that is representative of the groundwater level in March of 2004, the year after first use occurred under the permit.

References

Application File for T14810

Gannett, M. W., Lite Jr., K. E., La Marche, J. L., Fisher, B. J., & Polette, D. J. (2007). Ground-Water Hydrology of the Upper Klamath Basin, Oregon and California. In *Ground-Water Hydrology of the Upper Klamath Basin, Oregon and California* (USGS Numbered Series Nos. 2007-5050; Scientific Investigations Report, p. 85). U. S. Geological Survey. GW Library (C4). <https://doi.org/10.3133/sir20075050>

OWRD Pump Test Database: KLAM 52916

Theis, C.V., 1941, The effect of a well on the flow of a nearby stream: Am. Geophys.

Map

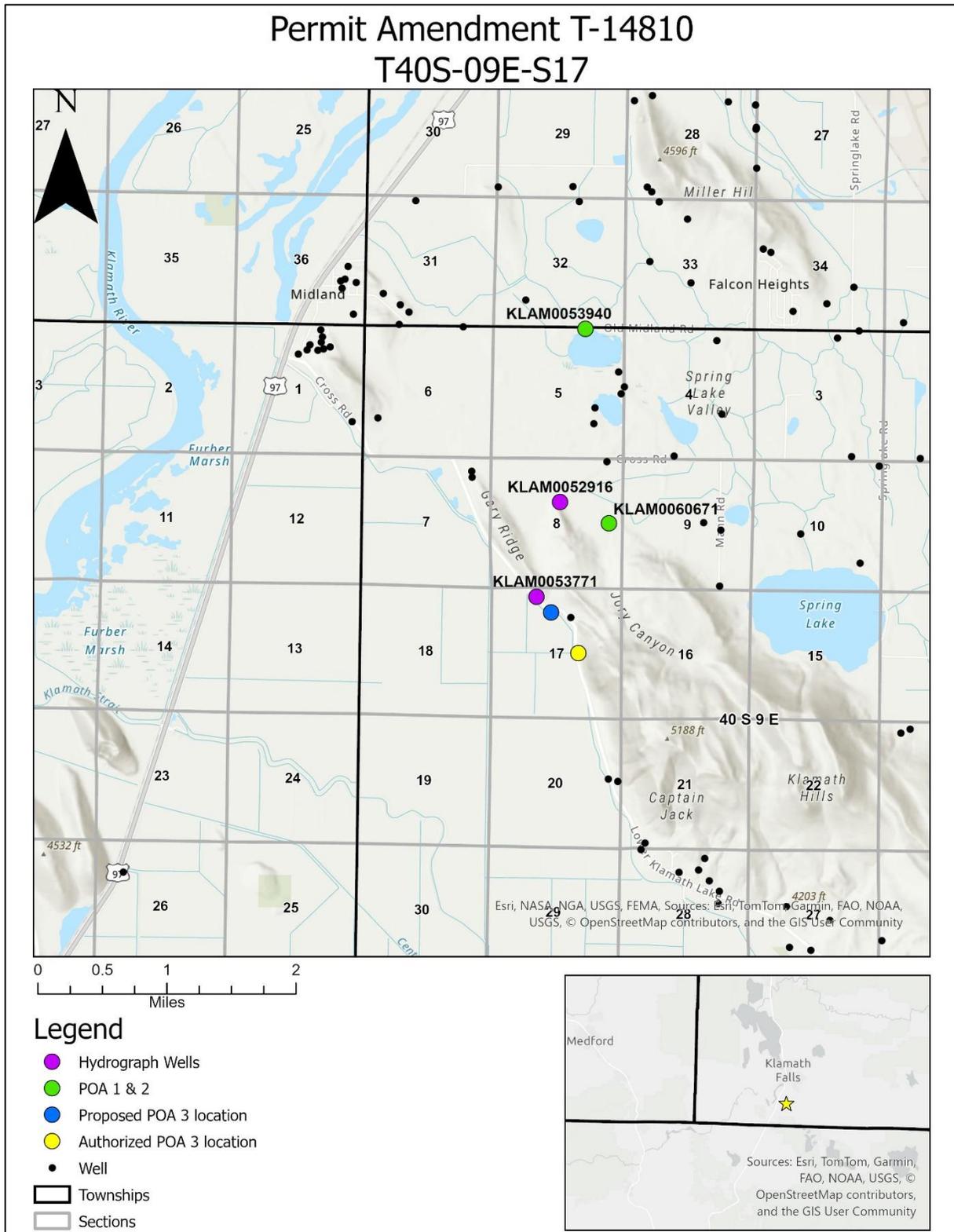


Figure 1: T-14810 Map

Hydrographs

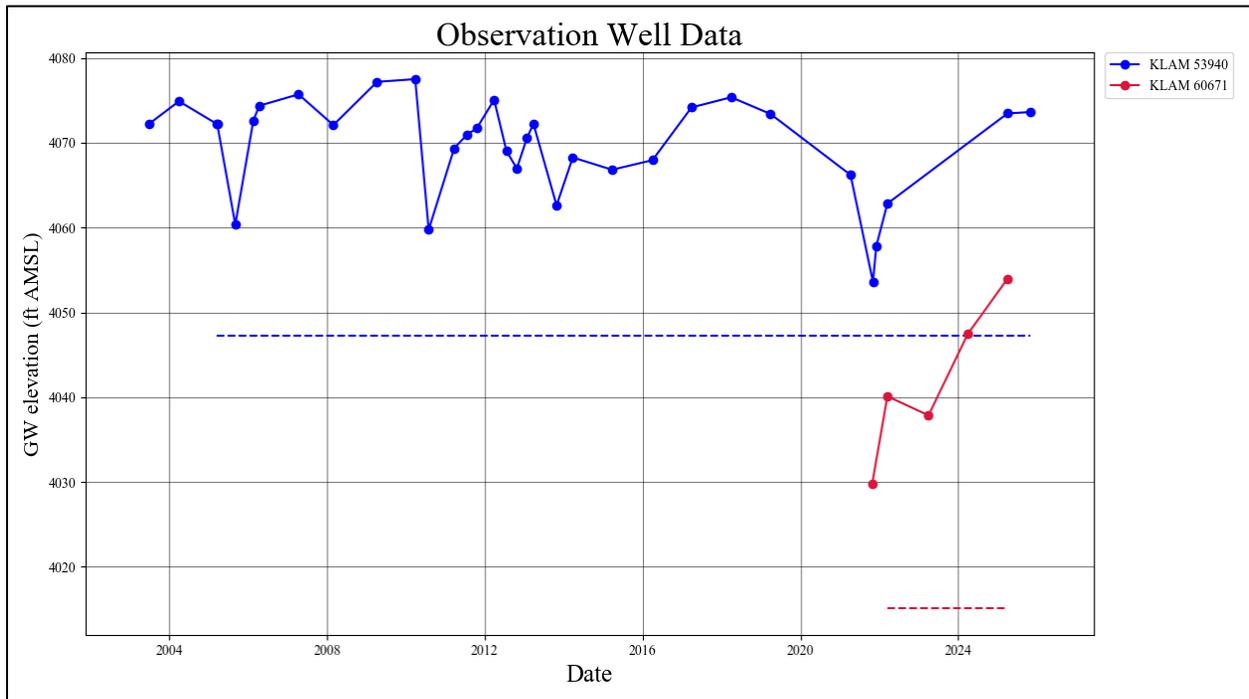


Figure 2: Hydrograph showing POA 1 and 2 and their respective trigger levels for their permit decline conditions.

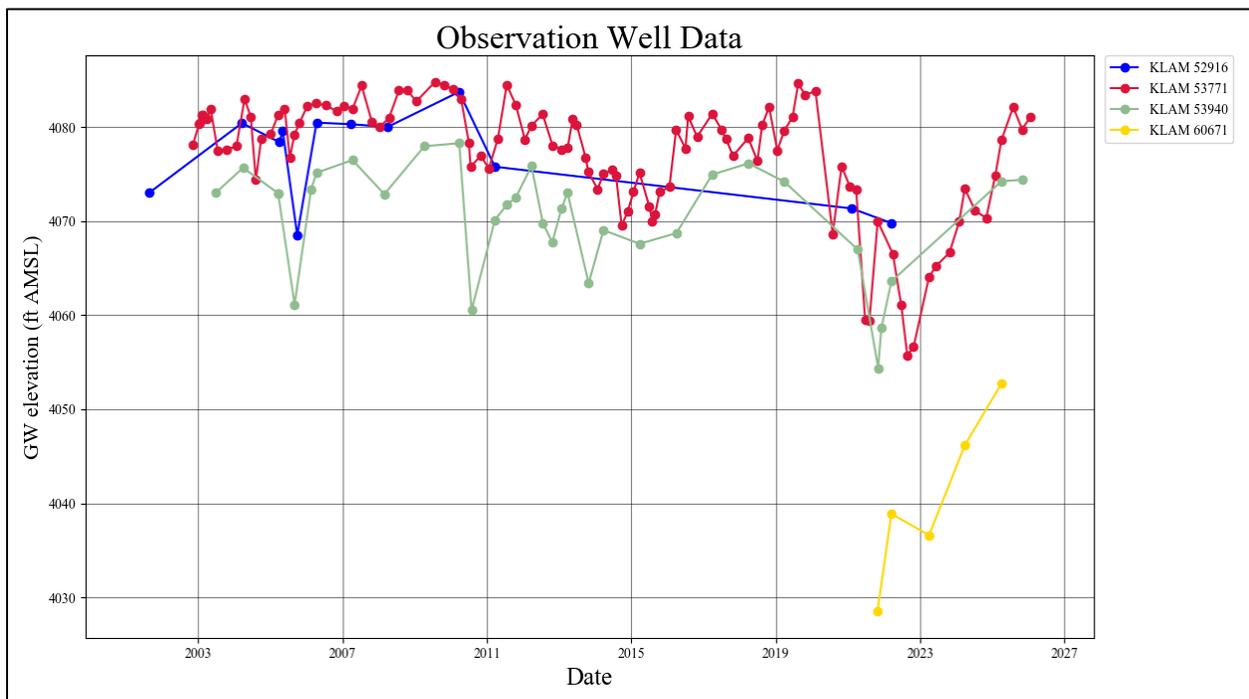


Figure 3: Hydrograph showing nearby wells KLAM 52916 and KLAM 53771 plotted along with POA 1 and 2.

Estimated drawdown

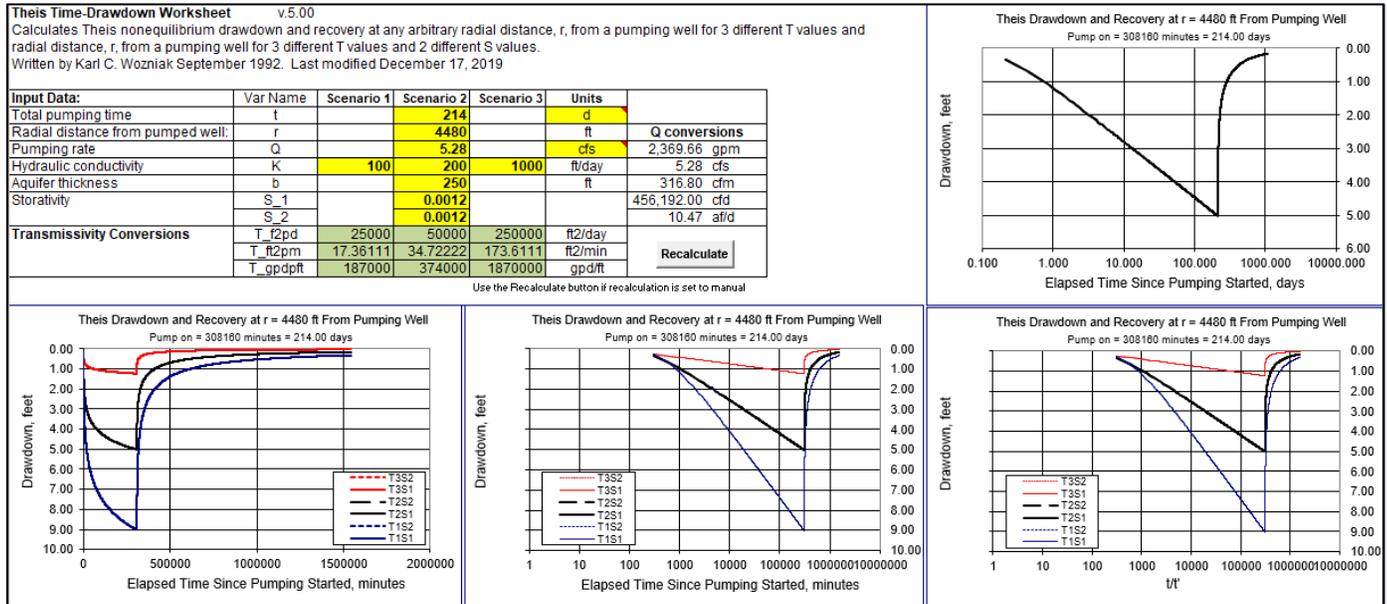


Figure 4: Estimated drawdown for pumping from proposed POA 3

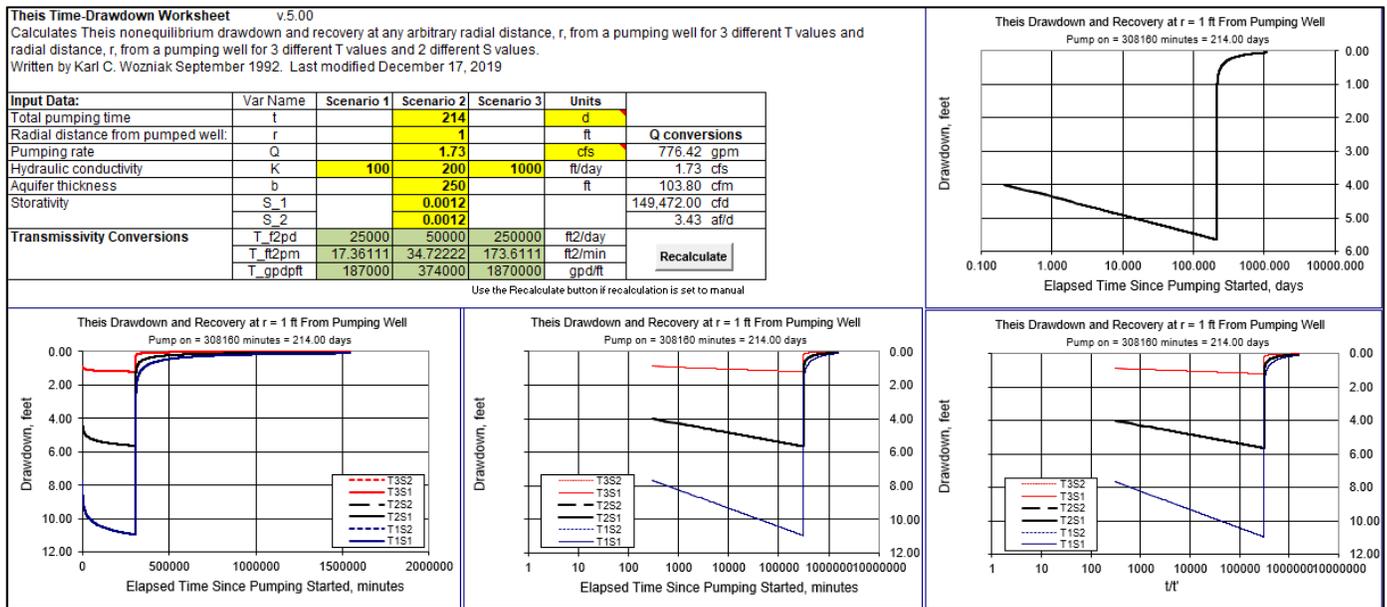


Figure 5: Estimated drawdown for pumping from Certificate 86472 (KLAM 52916)