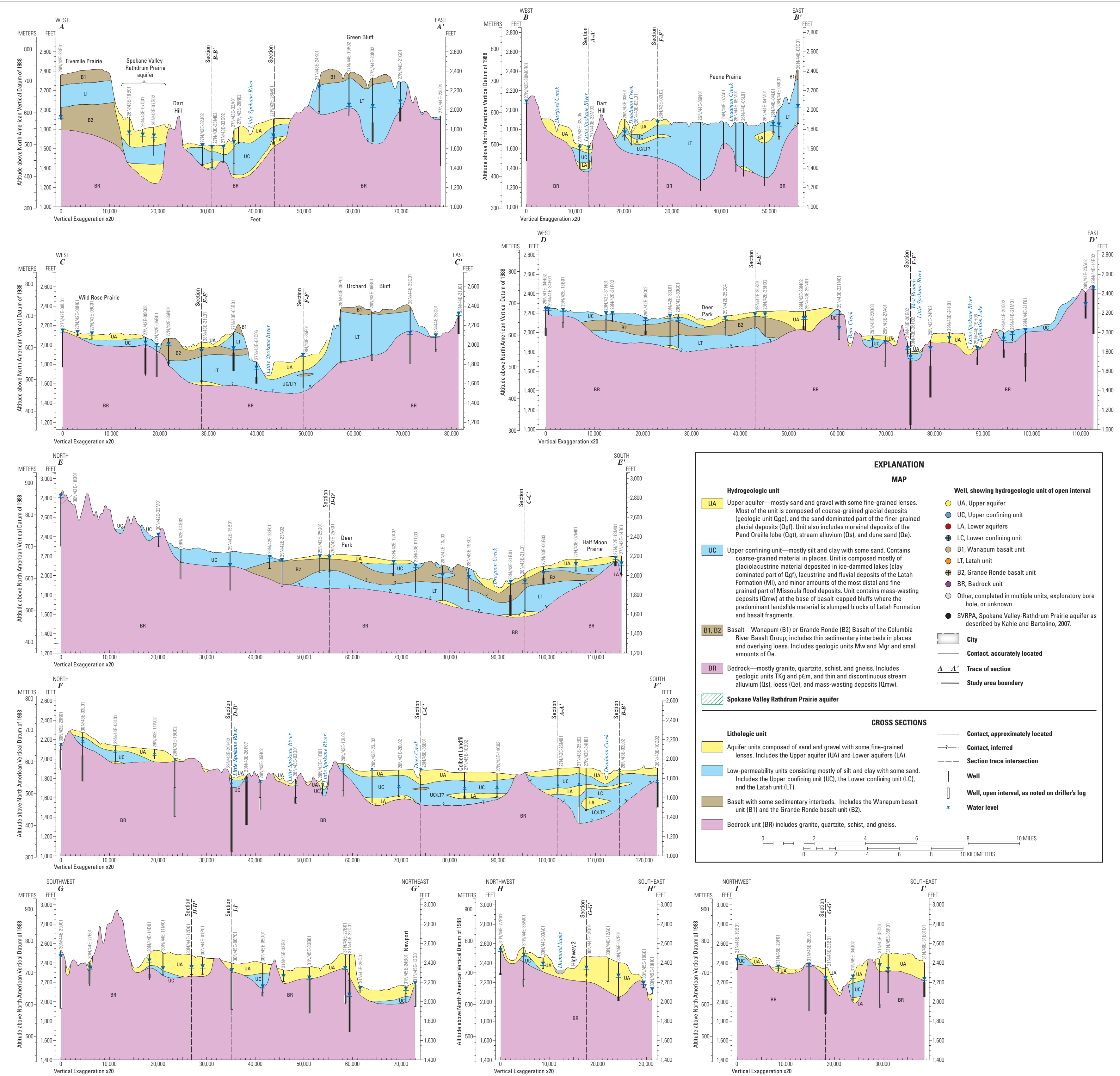
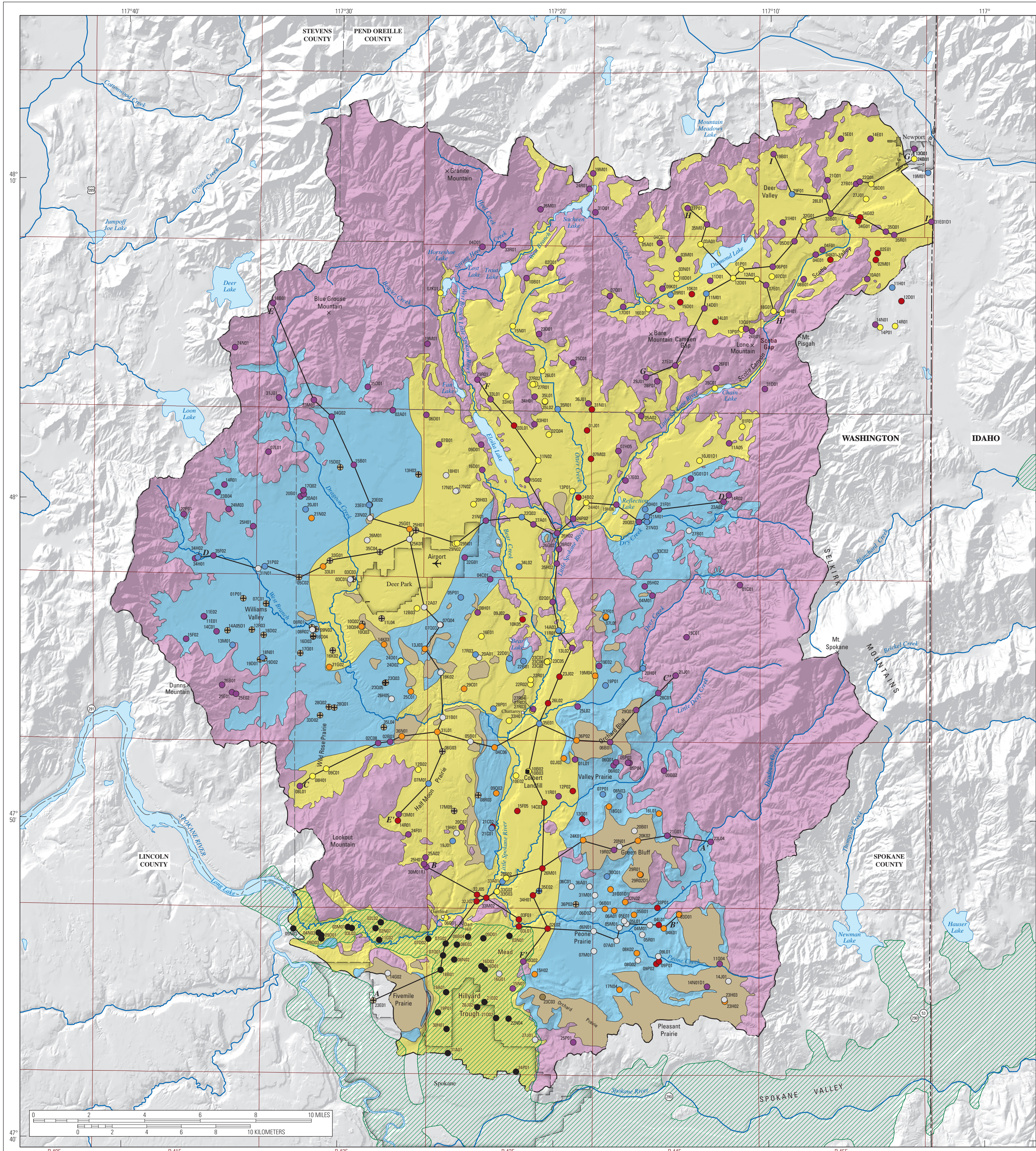


Prepared in cooperation with
SPOKANE COUNTY



EXPLANATION

MAP

Hydrogeologic unit

- UA Upper aquifer—mostly sand and gravel with some fine-grained lenses. Most of the unit is composed of coarse-grained glacial deposits (geologic unit Gq), and the sand dominated part of the finer-grained glacial deposits (Gqf). Unit also includes moraine deposits of the Pend Oreille lobe (Gqf), stream alluvium (Gs), and dune sand (Da).
- UC Upper confining unit—mostly silt and clay with some sand. Contains coarse-grained material in places. Unit is composed mostly of glaciolacustrine material deposited in ice-dammed lakes (clay dominated part of Gqf), lacustrine and fluvial deposits of the Latah Formation (Ml), and minor amounts of the most distal and fine-grained part of Missoula flood deposits. Unit contains mass-wasting deposits (Qmw) at the base of basalt-capped bluffs where the predominant landslide material is slumped blocks of Latah Formation and basalt fragments.
- B1, B2 Basalt—Wanapum (B1) or Grande Ronde (B2) Basalt of the Columbia River Basalt Group; includes thin sedimentary interbeds in places and overlying loess. Includes geologic units Mw and Mg and small amounts of Gs.
- BR Bedrock—mostly granite, quartzite, schist, and gneiss. Includes geologic units Tq and pGm, and thin and discontinuous stream alluvium (Gs), loess (Da), and mass-wasting deposits (Qmw).

Well, showing hydrogeologic unit of open interval

- UA, Upper aquifer
- UC, Lower confining unit
- LA, Lower aquifers
- LC, Lower confining unit
- B1, Wanapum basalt unit
- LT, Latah unit
- B2, Grande Ronde basalt unit
- BR, Bedrock unit
- Other, completed in multiple units, exploratory bore hole, or unknown
- SVRPA, Spokane Valley-Rathdrum Prairie aquifer as described by Kahle and Bartolino, 2007.

Other symbols:

- City
- Contact, accurately located
- Trace of section
- Study area boundary

CROSS SECTIONS

- Contact, approximately located
- Contact, inferred
- Section trace intersection
- Well
- Well, open interval, as noted on driller's log
- Water level

Lithologic unit

- Aquifer units composed of sand and gravel with some fine-grained lenses. Includes the Upper aquifer (UA) and Lower aquifers (LA).
- Low-permeability units consisting mostly of silt and clay with some sand. Includes the Upper confining unit (UC), the Lower confining unit (LC), and the Latah unit (LT).
- Basalt with some sedimentary interbeds. Includes the Wanapum basalt unit (B1) and the Grande Ronde basalt unit (B2).
- Bedrock unit (BR) includes granite, quartzite, schist, and gneiss.

Scale: 0 to 10 Miles / 0 to 10 Kilometers

Hydrogeologic unit map, unit of open interval of project wells, and hydrogeologic sections, Little Spokane River Basin, Spokane, Stevens, and Pend Oreille Counties, Washington

By
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Base modified from U.S. Geological Survey data, USGS National Elevation Data 2000, 30 foot resolution DEM and other digital sources. Projection: UTM, Zone 11N, North American Datum 1983. Scale factor = 0.9995. False easting = 500,000. False northing = 0.