

Query structure for exempt wells in the CYHWRMS

Data Source: ADWR Wells 55DB CD (version 6/2008)

WELLTYPE = Domestic/Stock/Exempt OR Exempt OR Non-Domestic Exempt
OR Replacement Well in New Location

WELLSITEUS = Water production OR Null

WELLSITE_1 = Water production OR Null

WATERUSE1 = Null OR **WATERUSE1** = Domestic OR **WATERUSE2** =
Domestic OR **WATERUSE3** = Domestic

WELL_CANCE = N or Null

APPROVED > 12/31/06 remove from the data set, keep null records

INSTALLED > 12/31/06 remove from the data set, keep null records

Information on the data source: It contains all registered wells in the State. The DB was created in 1980 to store registration information submitted by well owners and drillers. This project used a static clip from the Wells 55DB that was produced in CD format in June 2008.

Information on the query structure:

1. Setting well type as shown above removes wells coded as air sparging, cathodic, exploration, geotechnical, heat pump, injection, mineral exploration, monitor, monitor or piezometer, non-exempt, non-service, other, piezometer, service, soil vapor extraction, vadose zone or withdrawal permit.
2. Setting well site use as shown above removes wells coded as abandoned, capped destroyed, drainage, mineral exploration, monitor, no site use code listed, observation, piezometer, or test.
3. Setting well site 1 as shown above removes wells coded as abandoned, anode, capped, recharge or recovery.
4. Setting water use 1, 2, and 3 as shown above removes wells coded as commercial, drainage, industrial, irrigation, mining, municipal, no water use code listed, none, other-production, recharge, recreation, stock, subdivision, unknown, or utility (water co.). **Note: These other uses stay in the data set if at least one of the three columns has domestic in it. Also, if Water use 1 is not set with Null and an OR operator then about 282 exempt wells are lost from the study boundary.**
5. Setting well cancelled as shown above removes all wells coded with a Y = yes.
6. Setting approved and installed greater than 12/31/2006 removes wells that came in after this time. So that would be 2007 and 2008 wells.

Outcome: At the January 22nd 2009 TWG meeting, the stakeholders agreed that this query structure was good, with one exception. It was requested that we see if the addition of a "NULL" in the well type category would include additional wells that would other

wise be dropped from the query. On February 2nd 2009, L. Graser checked for this condition in all 55DB wells that are clipped to the study boundary. Only one well came up as NULL for well type, it was 55-588542. Fortis records were checked. The party who filed the paperwork stated well type to be exempt. This looked like a data entry error by ADWR records division. This item was forwarded and corrected in the 55DB by the NOI supervisor, L. Cason. At the 3/5/2009 TWG meeting the information about the “null” was shared with the group and the query structure will stand as shown above.