Project Number

Internal Distribution

PE Bramson
✓ PA Eddy
VL McGhan
ELH/File
LB

Battelle
Pacific Northwest Laboratories

Date November 2, 1982

To M. R. Quarders

From E. L. Hilty ELH

Subject WELLS REPORTED TO BE "PUMPING DOWN" DURING SAMPLING

I have checked out the sample pumps located in wells that you indicated were running out of water before the required sampling time, and I thought you might be interested in my observations.

1) Wells 53-47, 54-34, and 63-51 make water extremely slow but can be sampled if the flow is turned way down once the water has begun to run out of the hose (the hose bib should be re-opened after sampling). Well recharge and pump restart procedures may also have to be used.

2) Wells 43-88, 47-35, 49-55, 66-38, and S14-20A recharge quickly after drawing down past the pump and can be sampled after an approximate 10 minute wait and pump restart.

3) Well 50-42 has had a piezometer tube installed by Rockwell and this action has apparently caused a minor unconfined aquifer pumping problem. However, "recharge and restart" procedures will obtain an acceptable sample.

4) Well F5-6 lies so close to the river that it is affected by low and high flow. During low river flow periods this well pumps down after approximately 15 minutes, but also recovers quite fast to provide a good sample.

5) I found that well F5-3 also pumps down immediately and takes several hours to recharge. This well is on the FY83 maintenance list and will be reperforated if necessary.

The main reasons for the problems with the above mentioned wells are geohydrologic and original well construction technique in origin. However, acceptable ground-water samples for analysis can be obtained by following the sampling procedures suggested above.

ELH:np