

2019 USGS EM-Logging Result Summary

Name	Local ID	Station ID	Depth	Unit	Log interpretations
WITHAMS	66M 18	375723075344403	240	Lower Aquifer	Small changes in Surficial Aquifer have largely been nullified. Consistent freshening in Lower Aquifer since start of program. Water levels below sea level, but by less than 1ft and stable, and above '08 level
NASA WFF	67M 14	375617075273701	280	Lower Confining Unit	No change through log. Increase in conductance from '08 -'16. No changes since '16. Lowest water levels in network. Adjacent well in cluster (67M 13) shows signs of repeated pumping. Difficult site access limits data on
CHESSER ROAD	66L 1	375225075321701	305	Lower Aquifer	No change in log since program started. However, well location between Chincoteague and poultry farm cones of depression necessitates further monitoring. Water level above sea level during logging for first time in
BAYSIDE	65K 23	374442075432501	290	St. Mary's Confining Unit	No changes Down length of log for the lifetime of the program. On SW edge of poultry farm cone of depression. Water levels below sea level, but less than 1ft, stable and recovering.
BAYLY'S NECK	66K 2	374320075380501	292	Lower Aquifer	No changes in log since start of program. Water levels almost 3ft below sea level, but above '08 level. Possible downward trend in water levels since 2016
HACKS NECK	64K 7	373845075522501	176	Lower Aquifer	Most of log shows no change. Small amount of play in last 10 ft of log. Significant and consistent increases (though recently much smaller changes) in conductance in top 20 ft of log which are muted but show down to 50
CONCORD WHARF	63J 3	373230075541003	290	St. Mary's Confining Unit	No change in most of log, but significant and consistent decreases in conductance in last 30 ft of log. Large increase in water level from '08 to '16. Levels stable and trending slightly upward since 2016. Levels are below
WILLIS WHARF	64J 11	373059075484503	313	Lower Aquifer	Most of log shows no change in conductance. First 20 ft of log shows some yearly variations in conductance. Water levels are above sea level, trending upward, and appear to be stabilizing.
CHERITON	63G 24	371653075584803	330	St. Mary's Confining Unit	No change in log for lower 2/3 of log. Small amount of oscillation in conductance values (almost 0 net change) in top third of log. Water level was below sea level in '08. Although water level data is sparse, levels have been above sea level and trending upward since 2016.
OYSTER	63G 15	371709075560801	310	Middle Aquifer	Near no change in the log. Small change in Middle Confining Unit from '08 to '16 likely drilling fluids working out of the bore hole. Waterlevels are above sea level, stabilizing, and trending upward.
BAY CREEK RESORT	62G 15	371543076003401	190	Middle Aquifer	Most of log shows no change in conductance. The tome 30 ft and last 10 ft of the log show small amounts of change from year to year. Cause is unknown. Water levels that were below sea level in '08 are now above sea level and stabilizing. Thry have been doing so since 2014.
CAPE CENTER	63F 16	371307075583502	301	Middle Aquifer	No change in log. Small decrease in conductance in middle of Surficial Aquifer likely drilling fluids working out of the borehole. Water levels are above sea level and have been stable since 2016.