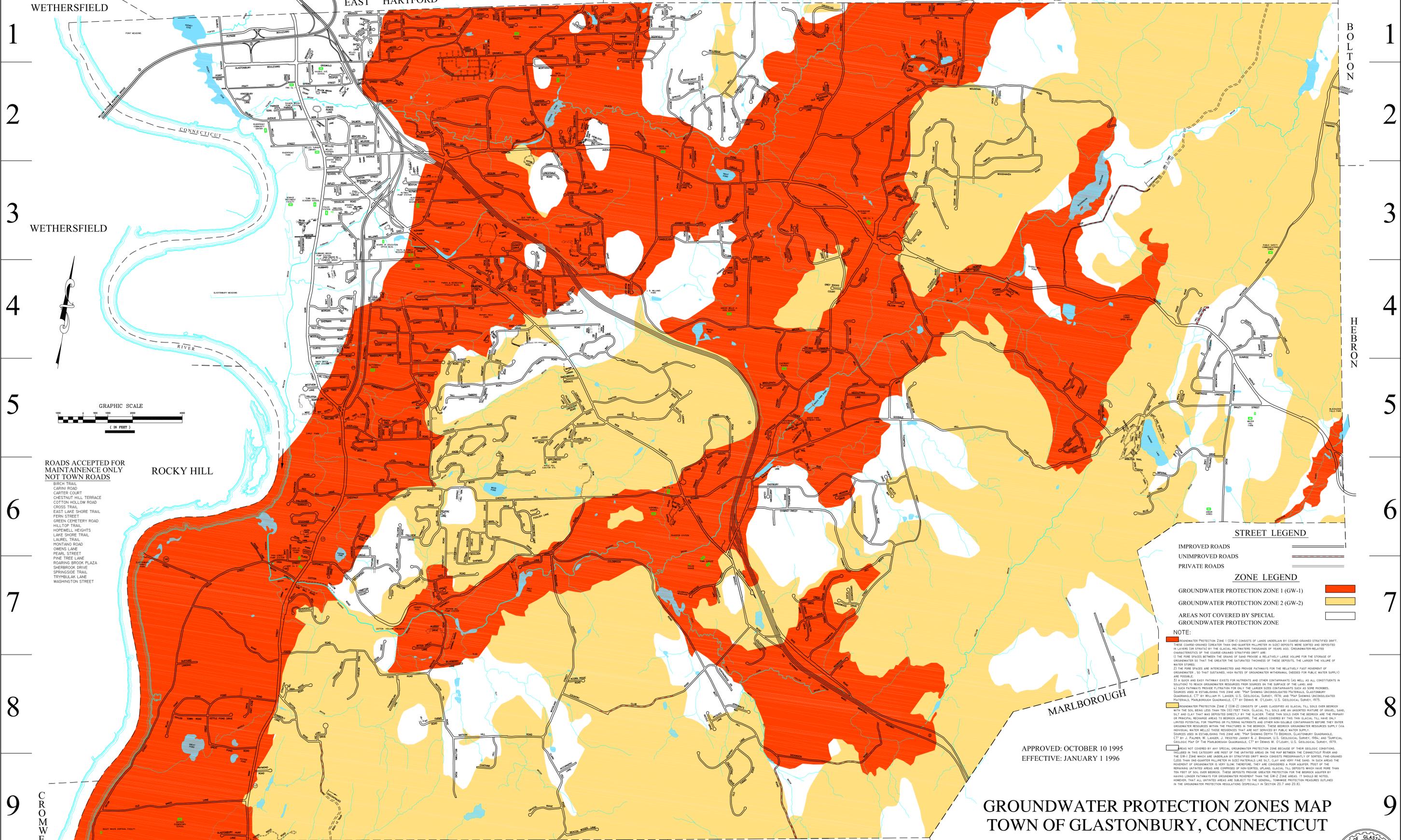


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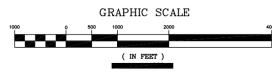


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- ROADS ACCEPTED FOR MAINTENANCE ONLY NOT TOWN ROADS**
- BIRCH TRAIL
 - CARIN ROAD
 - CARTER COURT
 - CHESTNUT HILL TERRACE
 - COTTON HOLLOW ROAD
 - CROSS TRAIL
 - EAST LAKE SHORE TRAIL
 - FERN STREET
 - GREEN EDENBERRY ROAD
 - HILLTOP TRAIL
 - HOPWELL HEIGHTS
 - LAKE SHORE TRAIL
 - LAUREL TRAIL
 - MONTANO ROAD
 - OWENS LANE
 - PEARL STREET
 - PINE TREE LANE
 - ROARING BROOK PLAZA
 - SHERBROOK DRIVE
 - SPRINGCREEK TRAIL
 - TRYMBULAK LANE
 - WASHINGTON STREET

ROCKY HILL



STREET LEGEND

- IMPROVED ROADS
- UNIMPROVED ROADS
- PRIVATE ROADS

ZONE LEGEND

- GROUNDWATER PROTECTION ZONE 1 (GW-1)
- GROUNDWATER PROTECTION ZONE 2 (GW-2)
- AREAS NOT COVERED BY SPECIAL GROUNDWATER PROTECTION ZONE

NOTE:

- 1) GROUNDWATER PROTECTION ZONE 1 (GW-1) CONSISTS OF LANDS UNDERLAIN BY COARSE-GRAINED STRATIFIED DRIFT. THESE COARSE-GRAINED (GREATER THAN ONE-QUARTER MILLIMETER IN SIZE) DEPOSITS WERE SORTED AND DEPOSITED IN LAYERS OR STRATA BY THE GLACIAL MELTWATERS THOUSANDS OF YEARS AGO. GROUNDWATER RELATED CHARACTERISTICS OF THE COARSE-GRAINED STRATIFIED DRIFT ARE:
 - a) THE PORE SPACES BETWEEN THE GRAINS OF SAND PROVIDE A RELATIVELY LARGE VOLUME FOR THE STORAGE OF GROUNDWATER SO THAT THE GREATER THE SATURATED THICKNESS OF THESE DEPOSITS, THE LARGER THE VOLUME OF WATER STORED;
 - b) THE PORE SPACES ARE INTERCONNECTED AND PROVIDE PATHWAYS FOR THE RELATIVELY FAST MOVEMENT OF GROUNDWATER, SO THAT DISTANT, HIGH RATES OF GROUNDWATER WITHDRAWAL (NEEDS FOR PUBLIC WATER SUPPLY) ARE POSSIBLE;
 - c) A SLOW AND EASY PATHWAY EXISTS FOR NUTRIENTS AND OTHER CONTAMINANTS (AS WELL AS ALL CONSTITUENTS IN SOLUTION) TO REACH GROUNDWATER RESOURCES FROM SOURCES ON THE SURFACE OF THE LAND; AND
 - d) PATHWAYS PROVIDE FILTRATION FOR ONLY THE LARGEST SIZED CONTAMINANTS SUCH AS SOME HORSES. SOURCES USED IN ESTABLISHING THIS ZONE ARE "MAP SHOWING UNCONSOLIDATED MATERIALS, GLASTONBURY QUADRANGLE, CT" BY WILLIAM H. LANGER, U.S. GEOLOGICAL SURVEY, 1976; AND "MAP SHOWING UNCONSOLIDATED MATERIALS, MARLBOROUGH QUADRANGLE, CT" BY DENNIS W. O'LEARY, U.S. GEOLOGICAL SURVEY, 1975.
- 2) GROUNDWATER PROTECTION ZONE 2 (GW-2) CONSISTS OF LANDS CLASSIFIED AS GLACIAL TILL SOILS OVER BEDROCK. THE SOIL BEING LESS THAN TEN FEET THICK. GLACIAL TILL SOILS ARE AN UNSORTED MIXTURE OF GRAVEL, SAND, SILT AND CLAY THAT WAS DEPOSITED DIRECTLY BY THE GLACIER. THESE TILL SOILS OVER THE BEDROCK ARE THE PRIMARY OR PRINCIPAL RECHARGE AREAS TO BEDROCK AQUIFERS. THE AREAS COVERED BY THIS THIN GLACIAL TILL HAVE ONLY LIMITED POTENTIAL FOR TRAPPING OR FILTERING NUTRIENTS AND OTHER NON-SOLUBLE CONTAMINANTS BEFORE THEY ENTER GROUNDWATER RESOURCES WITHIN THE BEDROCK. THESE BEDROCK GROUNDWATER RESOURCES SUPPLY (VIA INDIVIDUAL WATER WELLS) THOSE RESIDENCES THAT ARE NOT SERVED BY PUBLIC WATER SUPPLY. SOURCES USED IN ESTABLISHING THIS ZONE ARE "MAP SHOWING DEPTH TO BEDROCK, GLASTONBURY QUADRANGLE, CT" BY J. PALMER, W. LANGER, J. HEISTER, JANARDY & J. BINGHAM, U.S. GEOLOGICAL SURVEY, 1984; AND "TOPICAL QUADRANGLE MAP OF THE MARLBOROUGH QUADRANGLE, CT" BY DENNIS W. O'LEARY, U.S. GEOLOGICAL SURVEY, 1975.
- 3) AREAS NOT COVERED BY ANY SPECIAL GROUNDWATER PROTECTION ZONE BECAUSE OF THEIR GEOLOGIC CONDITIONS. INCLUDED IN THIS CATEGORY ARE MOST OF THE UNDEVELOPED AREAS ON THE MAP BETWEEN THE CONNECTICUT RIVER AND THE GULF COAST BEING LESS THAN TEN FEET THICK. STRATIFIED DRIFT WHICH CONSISTS PREPREDIMINANTLY OF SORTED, FINE-GRAINED (LESS THAN ONE-QUARTER MILLIMETER IN SIZE) MATERIALS LIKE SILT, CLAY AND VERY FINE SAND. IN SUCH AREAS THE MOVEMENT OF GROUNDWATER IS VERY SLOW. THEREFORE, THEY ARE CONSIDERED A FOUR QUARTER. MOST OF THE REMAINING UNDEVELOPED AREAS ARE COMPOSED OF NON-SORTED, UPLAND, GLACIAL TILL DEPOSITS WHICH HAVE MORE THAN TEN FEET OF SOIL OVER BEDROCK. THESE DEPOSITS PROVIDE GREATER PROTECTION FOR THE BEDROCK AQUIFER BY HAVING LONGER PATHWAYS FOR GROUNDWATER MOVEMENT THAN THE GW-2 ZONE AREAS. IT SHOULD BE NOTED, HOWEVER, THAT ALL UNDEVELOPED AREAS ARE SUBJECT TO THE GENERAL, THINNING PROTECTION MEASURES OUTLINED IN THE GROUNDWATER PROTECTION REGULATIONS (ESPECIALLY IN SECTION 20.7 AND 20.8).

APPROVED: OCTOBER 10 1995
EFFECTIVE: JANUARY 1 1996

**GROUNDWATER PROTECTION ZONES MAP
TOWN OF GLASTONBURY, CONNECTICUT**

