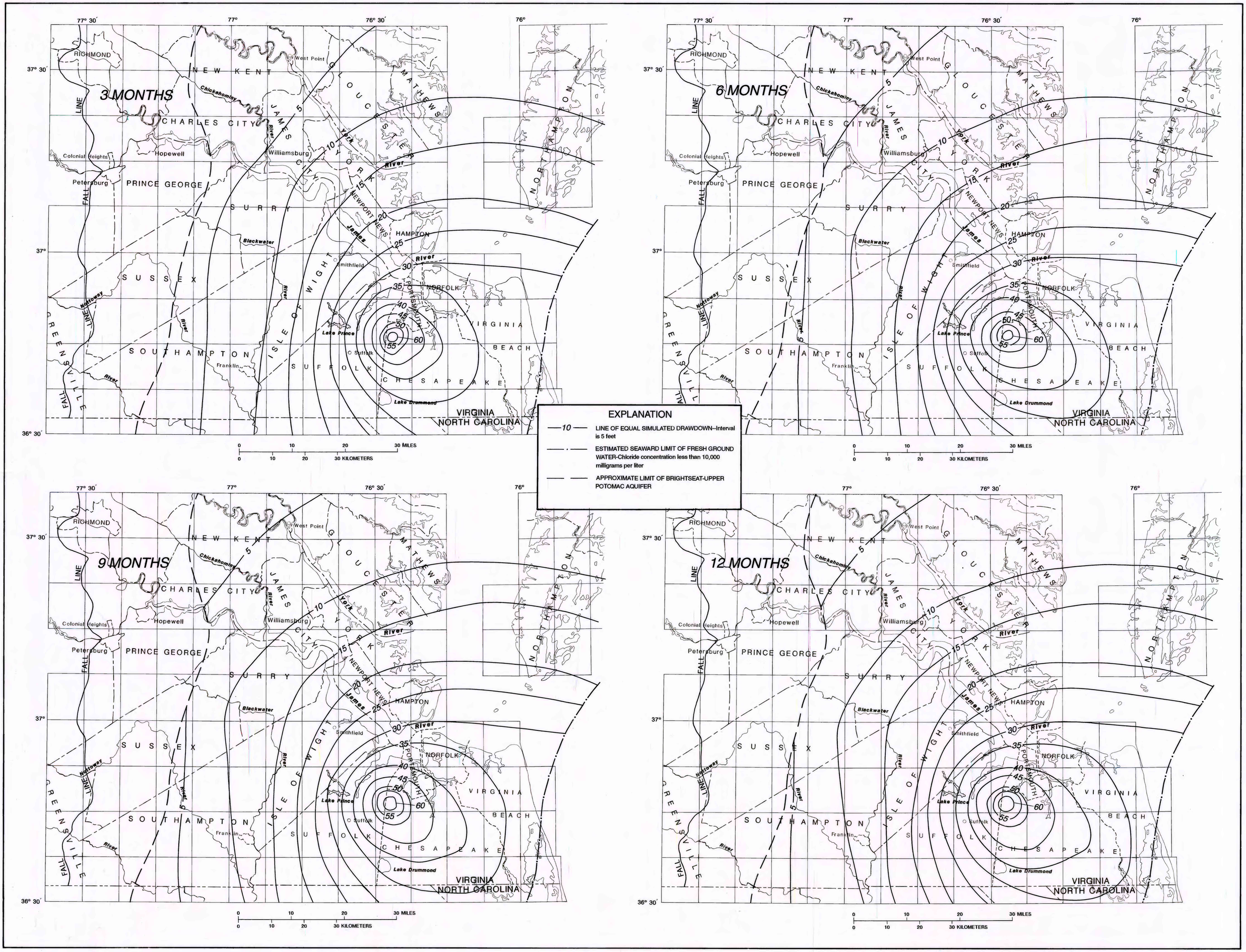
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
HAMPTON ROADS PLANNING DISTRICT COMMISSION



EXPLANATION

—10— LINE OF EQUAL SIMULATED DRAWDOWN--Interval is 5 feet

—·— ESTIMATED SEAWARD LIMIT OF FRESH GROUND WATER-Chloride concentration less than 10,000 milligrams per liter

— — APPROXIMATE LIMIT OF BRIGHTSEAT-UPPER POTOMAC AQUIFER

Base from U.S. Geological Survey
State base map 1:500,000

SIMULATED DRAWDOWN AFTER 3 MONTHS, 6 MONTHS, 9 MONTHS, AND 12 MONTHS OF CONTINUOUS WITHDRAWAL OF 12 MILLION GALLONS PER DAY FROM THE CITY OF CHESAPEAKE, VIRGINIA, WELL FIELD

Focazio, M.J., and Speiran, G.K., 1993, Estimating net drawdown resulting from episodic withdrawals at six well fields in the Coastal Plain physiographic province of Virginia.
U.S. Geological Survey Water-Resources Investigations Report 93-4159