

**CONNECTICUT RIVER**  
FLOW

**LEGEND**

- COB WELL
- VERMONT YANKEE BEDROCK DRINKING WATER WELL
- OFF-LINE FOR PRECAUTIONARY REASONS
- GZ-10 MONITORING WELL INSTALLED JANUARY-MARCH 2010
- GROUNDWATER ELEVATION IN FEET (FEBRUARY 26, 2010)
- GZ-1 GPI MONITORING WELL INSTALLED NOVEMBER 2007
- 3201 OTHER VERMONT YANKEE MONITORING WELL
- 225 INFERRED GROUNDWATER CONTOUR IN FEET (FEBRUARY 26, 2010)
- INFERRED AREA OF TRITIUM ACTIVITY IN SHALLOW GROUNDWATER (>MDA)
- INFERRED CENTERLINE OF TRITIUM IMPACT IN SHALLOW GROUNDWATER

0 50' 100' 200'  
SCALE IN FEET

**NOTES:**

1. AREA OF TRITIUM ACTIVITY IN SHALLOW GROUNDWATER INFERRED FROM DATA FROM WIDELY SPACED MONITORING WELLS. ACTUAL CONDITIONS MAY VARY. RECENTLY, A TRACE LEVEL OF TRITIUM ACTIVITY HAS BEEN INCONSISTENTLY DETECTED AT GZ-11.
2. GROUNDWATER CONTOURS AND FLOW DIRECTIONS INFERRED FROM GROUNDWATER ELEVATION MEASUREMENTS COLLECTED FROM WIDELY SPACED MONITORING WELLS ON FEBRUARY 26, 2010. ACTUAL CONDITIONS MAY VARY.
3. IT SHOULD BE NOTED THAT WHILE THE COB WELL AND GZ-14D ARE LOCATED WITHIN THE SHADED AREA SHOWN, BOTH WELLS ARE SCREENED BELOW THE SHALLOW GROUNDWATER ZONE AND NOT WITHIN IT. GZ-14D IS A DEEP OVERBURDEN WELL AND HAS GENERALLY SHOWN NO DETECTABLE LEVELS OF TRITIUM. THE COB WELL IS A DEEP BEDROCK WELL THAT WAS FORMERLY USED FOR WATER SUPPLY, AND HAS SHOWN NO DETECTABLE LEVELS OF TRITIUM. LOW LEVELS OF TRITIUM HAVE RECENTLY BEEN DETECTED AT THE DEEP OVERBURDEN WELL, GZ-13D, ALONG THE NORTH FLANK OF THE AREA OF TRITIUM ACTIVITY.
4. FLUCTUATIONS IN LOCAL GROUNDWATER ELEVATIONS MAY OCCUR OVER TIME DUE TO RAINFALL, SEASONAL CHANGES IN THE RATE OF EVAPOTRANSPIRATION, RELEASE RATES FROM THE LOCAL DAM, AND OTHER VARIOUS FACTORS.
5. THE LOCATIONS AND REFERENCE ELEVATIONS OF MONITORING WELLS AND DRINKING WATER WELLS WERE SURVEYED BY SOUTHERN VERMONT ENGINEERING OF BRATTLEBORO VERMONT (EXCEPT GZ-20 AND GZ-21, WHICH WERE ESTIMATED PENDING FORMAL SURVEY).
6. BASE PLAN, INCLUDING SITE TOPOGRAPHY, PROVIDED TO GZA IN ELECTRONIC FORMAT BY VERMONT YANKEE.

**ENTERGY VERMONT YANKEE**  
VERNON, VERMONT

**AREA OF TRITIUM IMPACTS**  
IN SHALLOW GROUNDWATER

PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists 4 FREE STREET PORTLAND, MAINE 04101 (404) 479-9190		PREPARED FOR: <b>ENTERGY VERMONT YANKEE</b> VERNON, VERMONT	
PROJ. MGR: JRP DESIGNED BY: MMS DATE: 04-15-2010	REVIEWED BY: JRP DRAWN BY: GAS/EMD PROJECT NO.: 09-0025576.11	CHECKED BY: JRP SCALE: 1" = 100' REVISION NO.:	FIGURE <b>4</b>

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**PROGRESS PRINT**