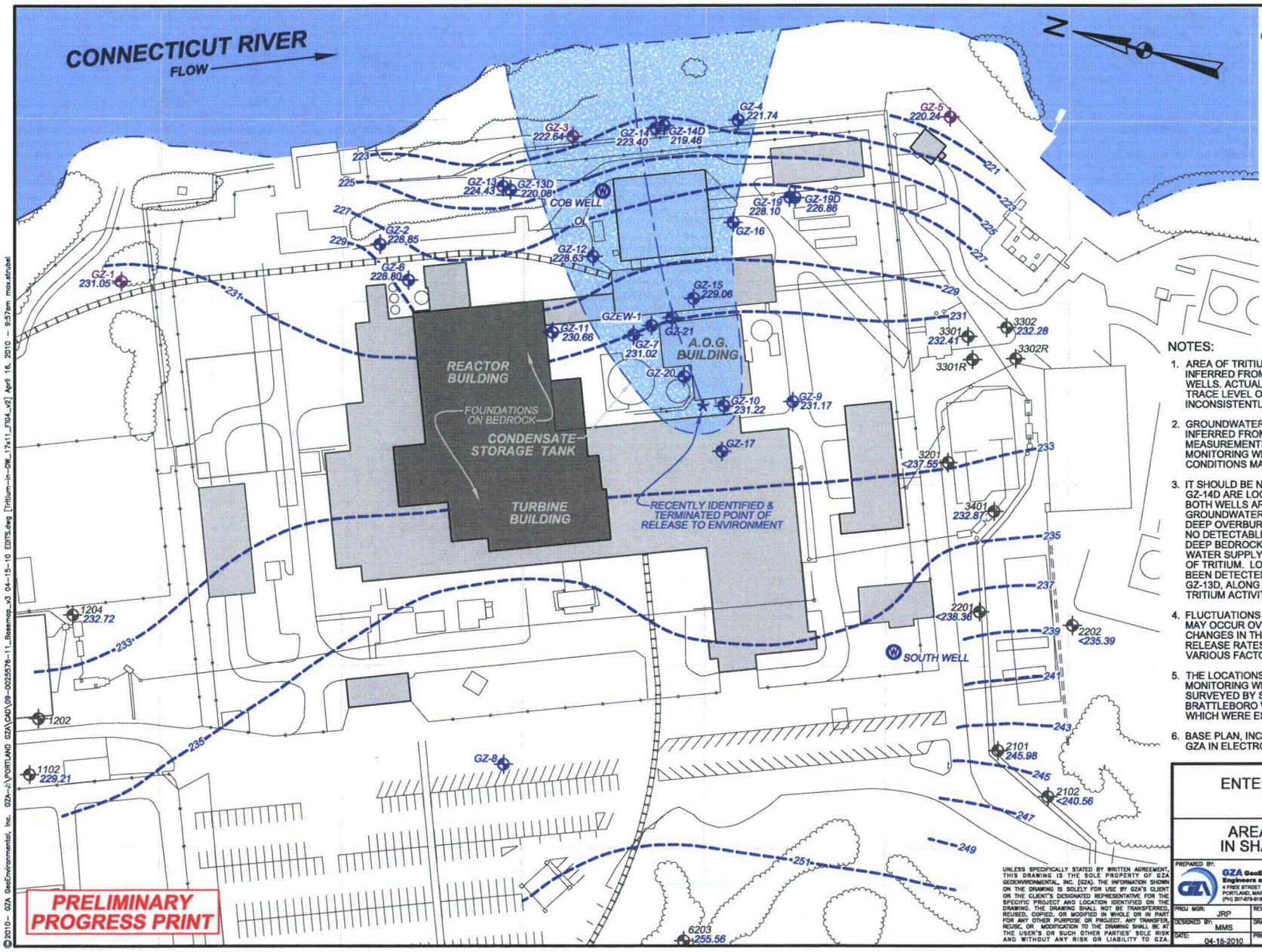

LEGEND

- COB WELL OL — VERMONT YANKEE BEDROCK DRINKING WATER WELL OFF-LINE FOR PRECAUTIONARY REASONS
- GZ-10 231.22 — 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 SPREAD 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.

PRELIMINARY PROGRESS PRINT

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ENTERGY VERMONT YANKEE
VERNON, VERMONT

AREA OF TRITIUM IMPACTS IN SHALLOW GROUNDWATER

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PROJ. MGR: JRP	REVIEWED BY: JRP	CHECKED BY: JRP	FIGURE 4
DESIGNED BY: MMS	DRAWN BY: GAS/EMD	SCALE: 1" = 100'	
DATE: 04-15-2010	PROJECT NO. 09.0025578.11	REVISION NO.	

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