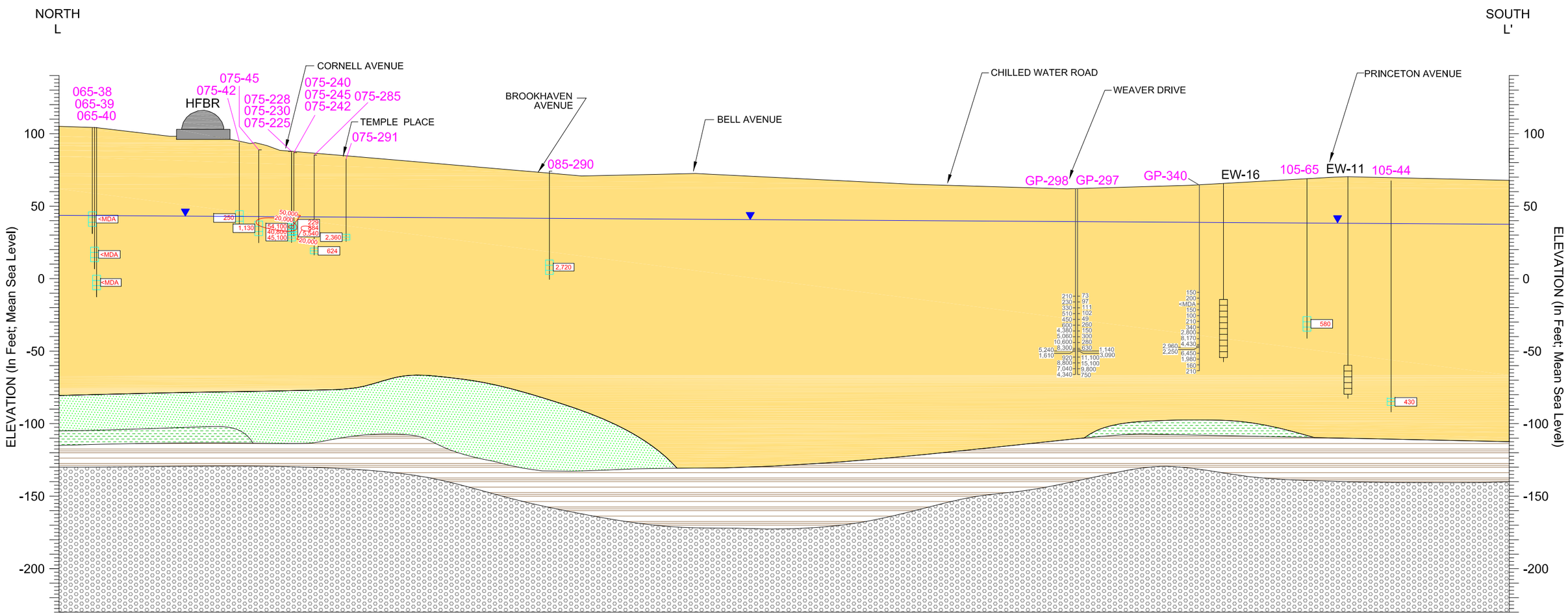

LEGEND

Upper Glacial aquifer

- UG Upper Glacial Sands
- UC Upper Glacial Silts & Clays
- UU Upton Unit

Gardiners Clay

- GL Gardiners Clay
- GS Gardiners Clay – Silt

Magothy aquifer

- MA Magothy Sands and Clay
- MB Magothy Brown Clay
- MC Magothy Clays (undifferentiated)
- MO Magothy – OTHER

065-40 BNL Well ID

EW-16 Groundwater Extraction Well

GP-345 Temporary well location and tritium detected (48500, 3900, 12300) pCi/L

Monitoring Well Screen

Extraction Well Screen

Water Table As Of November 7–10, 2011

1,040 Tritium Concentration (pCi/L)

20,000 Tritium Contour (pCi/L) (Dashed Where Inferred)

<MDA Tritium result less than minimum detectable activity

pCi/L – pico Curies per liter

HORIZONTAL SCALE

0 125 250 FEET

Monitoring Well IDs are stacked in order of the depth of the well from shallow to deep

075-228
075-230

NOTES:

1) GEOLOGIC INFORMATION SHOWN IS BASED ON ADDITIONAL EXPLORATIONS (e.g., HYDROPUNCHES, GEOPROBES, VERTICAL PROFILES, AND/OR TEST WELLS) DOCUMENTED IN PREVIOUS, MORE DETAILED REPORTS.

2) PLUME DISTRIBUTION IS BASED ON THE MAXIMUM TRITIUM RESULT AT EACH LOCATION DURING THE ENTIRE OU III (AOC 29 HFBR) SAMPLING EVENT FOR THE FOURTH QUARTER 2011 SUPPLEMENTED WITH FOURTH QUARTER 2011 AND FIRST QUARTER 2012 GEOPROBE RESULTS.

3) CONTOUR INTERVAL IS AS SHOWN.

4) BNL WELL ID COLOR CORRESPONDS TO LONG-TERM MONITORING PROGRAM COLOR CODE.

\\OERNT\GIS\GW_PROJECTS\CY_2011_GW_REPORT\FINAL_FIGURES\FIG_3.02.17-02.DWG

BROOKHAVEN NATIONAL LABORATORY

ENVIRONMENTAL PROTECTION DIVISION

TITLE:

OU III HFBR AOC 29
TRITIUM HYDROGEOLOGIC CROSS SECTION (L–L')

2011 BNL GROUNDWATER STATUS REPORT

DWN:	VT:HZ.:	DATE:	PROJECT NO.:
AJZ	5:1	09/07/12	–
CHKD:	APPD:	REV.:	NOTES:
JEB	WRD	–	–
FIGURE NO.:			
3.2.17–2			