

## **APPENDIX N**

### **HISTORICAL PCE CONCENTRATIONS IN SOIL GAS AND GROUNDWATER AT BROADWAY SOUTH LANDFILL, BROADWAY PANTANO WQARF SITE, TUCSON, ARIZONA**

## **FIGURES**

- Figure N1      BSDP-1 PCE Concentrations in Soil Gas and WR-367A PCE Concentrations in Groundwater
- Figure N2      BSDP-2 PCE Concentrations in Soil Gas and BP-11 PCE Concentrations in Groundwater
- Figure N3      BP-22 PCE Concentrations in Soil Gas and Groundwater
- Figure N4      BP-23 PCE Concentrations in Soil Gas and Groundwater

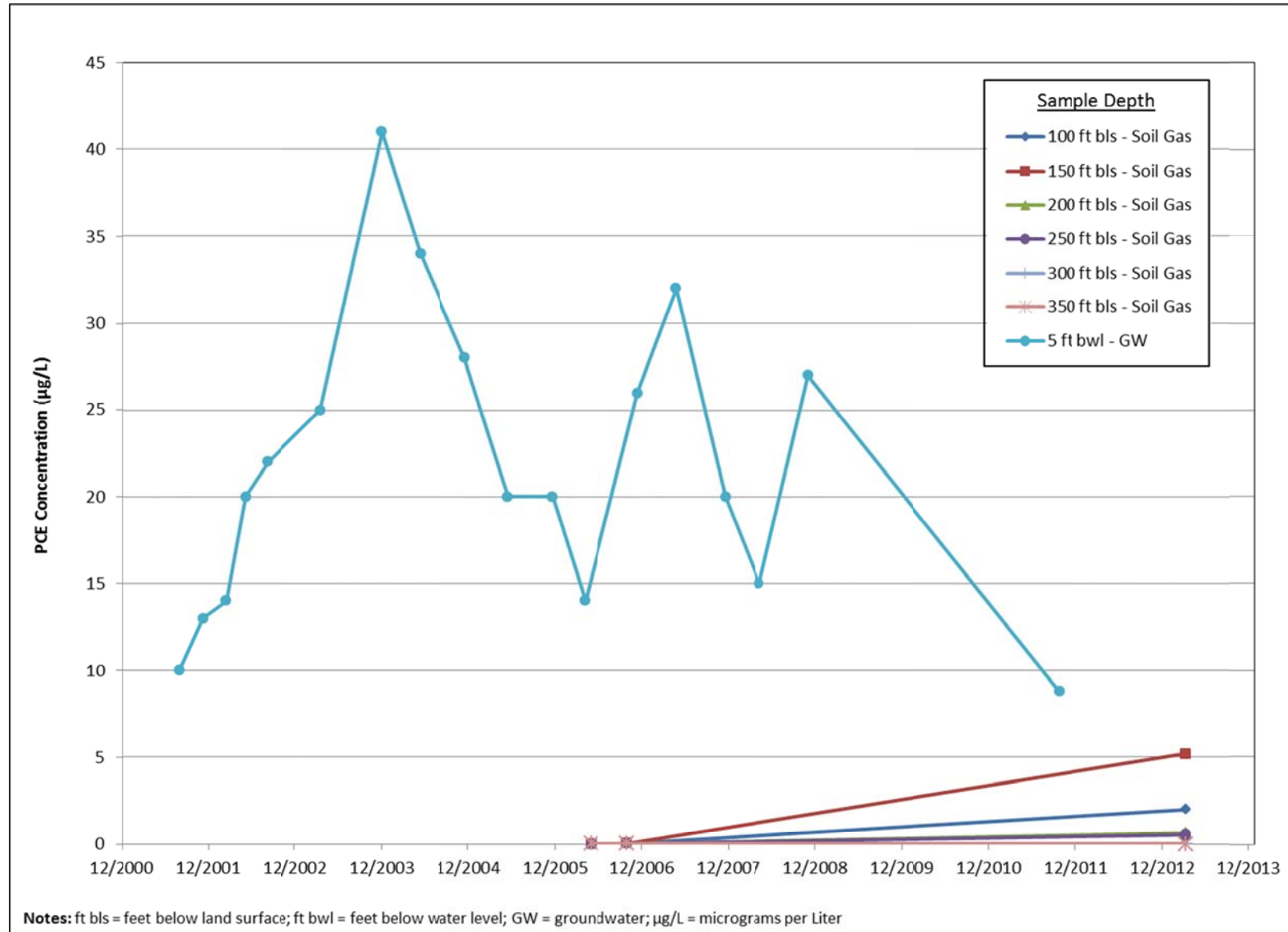
## **SUMMARY**

Spatially correlated soil-gas and groundwater samples have been collected at four locations within the boundaries of the Broadway South Landfill. The figures presented herein show historical PCE concentrations measured at various depths in soil gas and at the shallowest depth below the water table for which substantial historical data is available. These figures were included in response to comment 7 from the Broadway-Pantano Community Advisory Board (Appendix R).

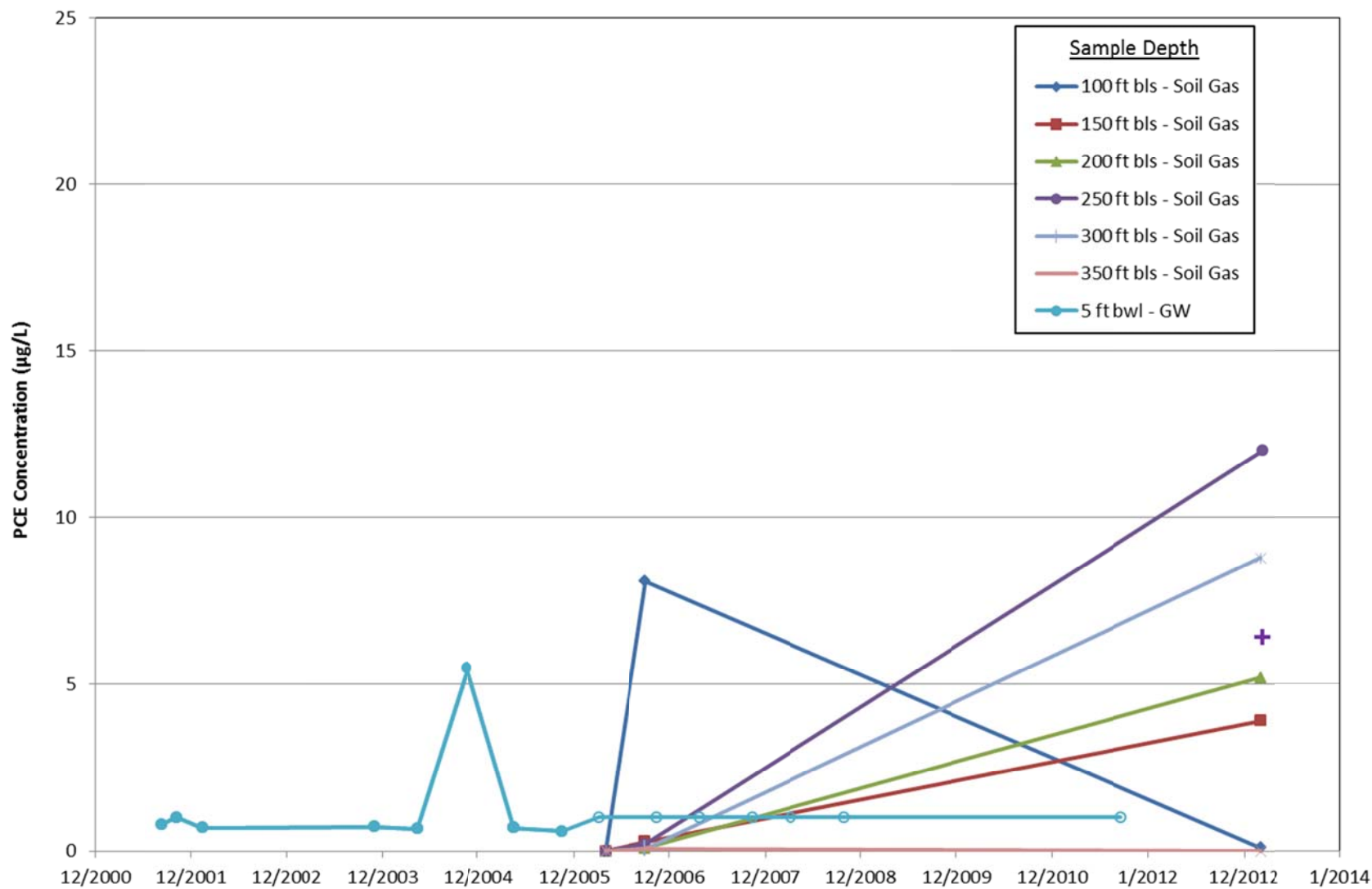
The partitioning of contaminants from soil gas into groundwater is considered the primary mechanism for contamination of the groundwater operable unit at the Broadway-Pantano site. Recent VOC concentrations in soil gas from several depths and locations at BSL are higher than those measured during the previous monitoring event in 2006. PCE concentrations in groundwater have increased in wells BP-22 and BP-23, concurrent with the observed increase in soil gas concentrations. However, the spatially limited monitoring network combined with the complex nature and large extent of the potential source area limit the usefulness of direct comparisons at any individual location.

**APPENDIX N**  
**FIGURES**

**FIGURE N1**  
**BSDP-1 PCE Concentrations in Soil Gas and WR-367A PCE Concentrations in Groundwater**

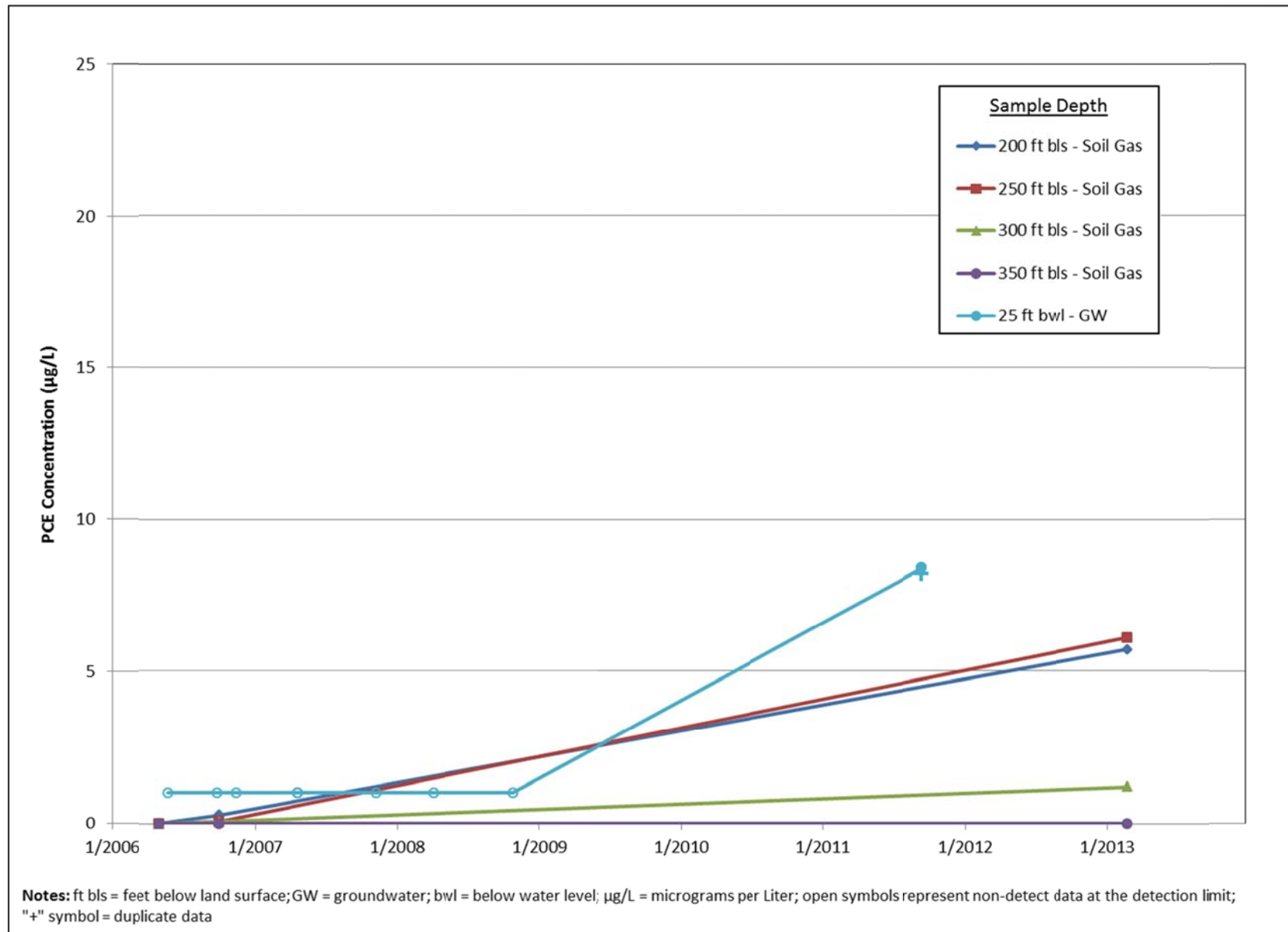


**FIGURE N2**  
**BSDP-2 PCE Concentrations in Soil Gas and BP-11 PCE Concentrations in Groundwater**



**Notes:** ft bls = feet below land surface; GW = groundwater; bwl = below water level; µg/L = micrograms per Liter; open symbols represent non-detect data at the detection limit; "+" symbol = duplicate data

**FIGURE N3**  
**BP-22 PCE Concentrations in Soil Gas and Groundwater**



**FIGURE N4**  
**BP-23 PCE Concentrations in Soil Gas and Groundwater**

