

# Map Interpretation

## Definitions and Acronyms:

LNAPL - Light Non-Aqueous Phase Liquids (LNAPL) are hydrocarbon substances that are relatively insoluble in water, are less dense than water, and tend to form a layer on top of the water table.

Benzene - Benzene is a component of gasoline and other petroleum products that is a natural constituent of crude oil and is a widely used industrial chemical.

MCL - Maximum Contaminant Levels (MCLs) are standards that are set by the United States Environmental Protection Agency (EPA) for drinking water quality. An MCL is the legal threshold limit on the amount of a substance that is allowed in public water systems under the Safe Drinking Water Act. For Benzene, the MCL is 0.005 mg/L or ppm.

PPM - parts per million

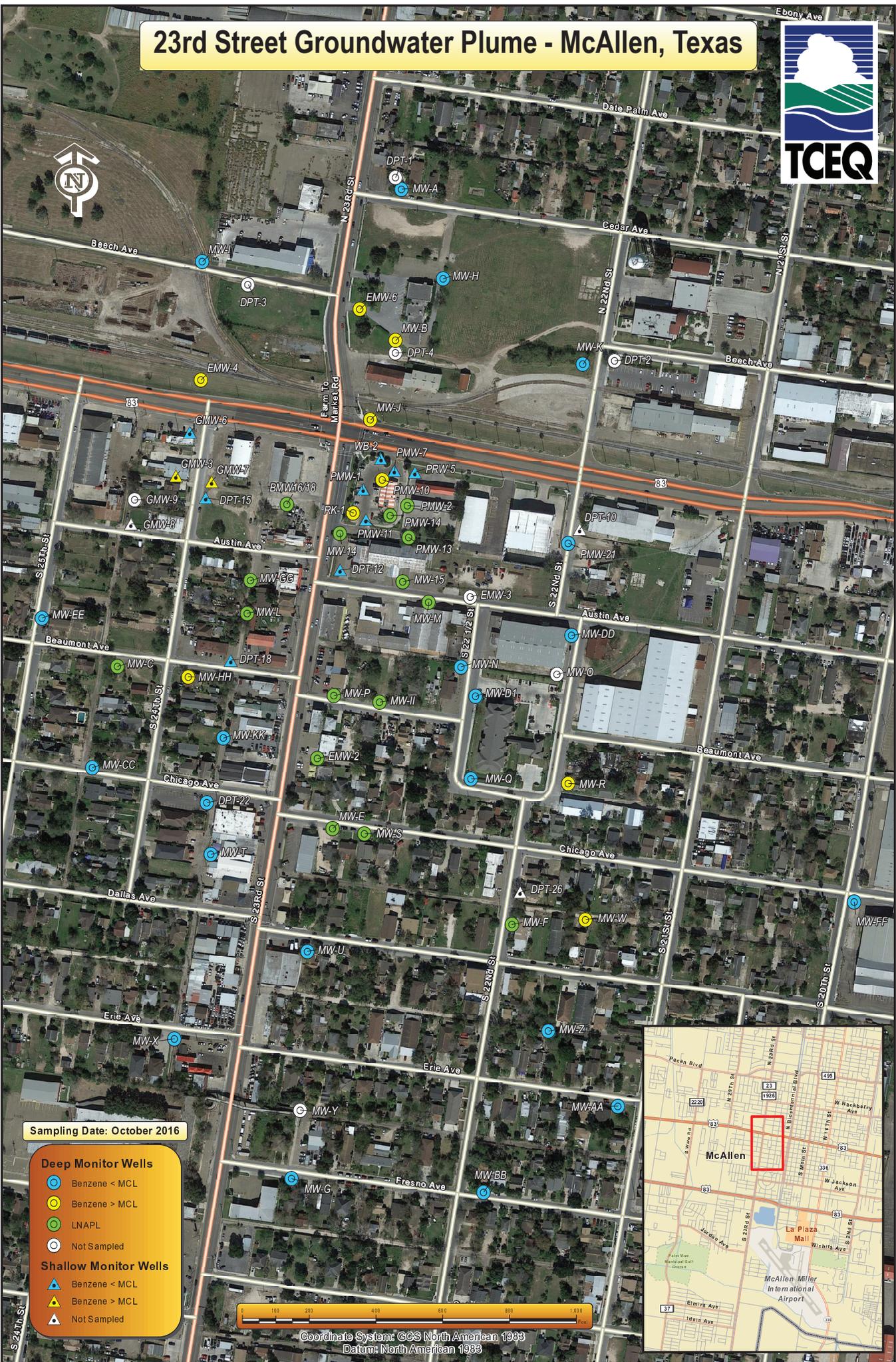
## How to Use the Map:

Maps in this section represent the conditions at the site at the time the wells were sampled. Monitor wells are gauged to determine the depth to groundwater, the presence or absence of LNAPL, and samples are collected from wells and analyzed for the chemical constituents of gasoline (Benzene, Toluene, Ethylbenzene, Xylenes, MTBE, and TPH). Some monitor wells are dry, and not all wells are scheduled to be sampled during each groundwater monitoring event. Groundwater monitoring provides information about the contaminant plume over time and helps determine whether the plume is stable. There are two groundwater zones at the site - a shallow zone and a deeper zone. The deeper zone is the zone where the LNAPL occurs and is generally found at depths greater than 30 feet below ground surface.

## MAP DISCLAIMER:

TCEQ Disclaimer: This map was generated by the Remediation Division of the Texas Commission on Environmental Quality (TCEQ) and is for informational purposes and is not suitable for legal, engineering, or survey purposes. This map does not represent an on-the-ground survey conducted by or under the supervision of a registered professional land surveyor. In cases where property boundaries are shown, it only represents their approximate relative location. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map, contact the Remediation Division at 800-633-9363. Map created by Lowell Hughes, (Remediation Division GIS Specialist II).

# 23rd Street Groundwater Plume - McAllen, Texas



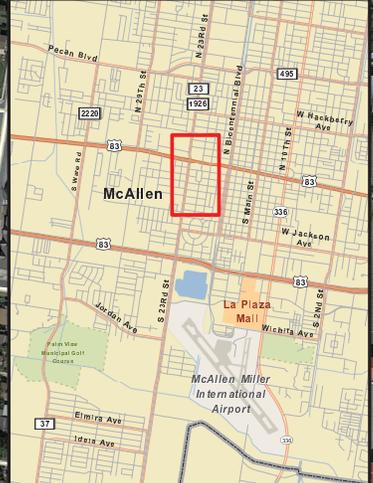
Sampling Date: October 2016

**Deep Monitor Wells**

- Benzene < MCL
- Benzene > MCL
- LNAPL
- Not Sampled

**Shallow Monitor Wells**

- ▲ Benzene < MCL
- ▲ Benzene > MCL
- ▲ Not Sampled



Coordinate System: GCS North American 1983  
Datum: North American 1983