



PILOT CASE STUDY: PETROLEUM HYDROCARBON LEAK AT A GAS STATION

BACKGROUND

- Pyramid Environmental and Engineering is the current consultant
- Petroleum release from underground storage tanks at a former Kwik Mart facility
- The site has been accepted for the Performance Based Clean Up program by NC DENR
- The upper 15 to 18 feet below land surface is characterized by gray to brown sand, sandy clay, and silty sand
- Dark gray silty to clayey sand was encountered from approximately 18 to 43 feet below land surface
- For purposes of the site remediation the uppermost 20 feet of the saturated aquifer is the target zone for treatment
- Depth to ground water is about 6 feet, and the surficial aquifer thickness is about 40 feet
- iSOC was the technology of choice for the remediation

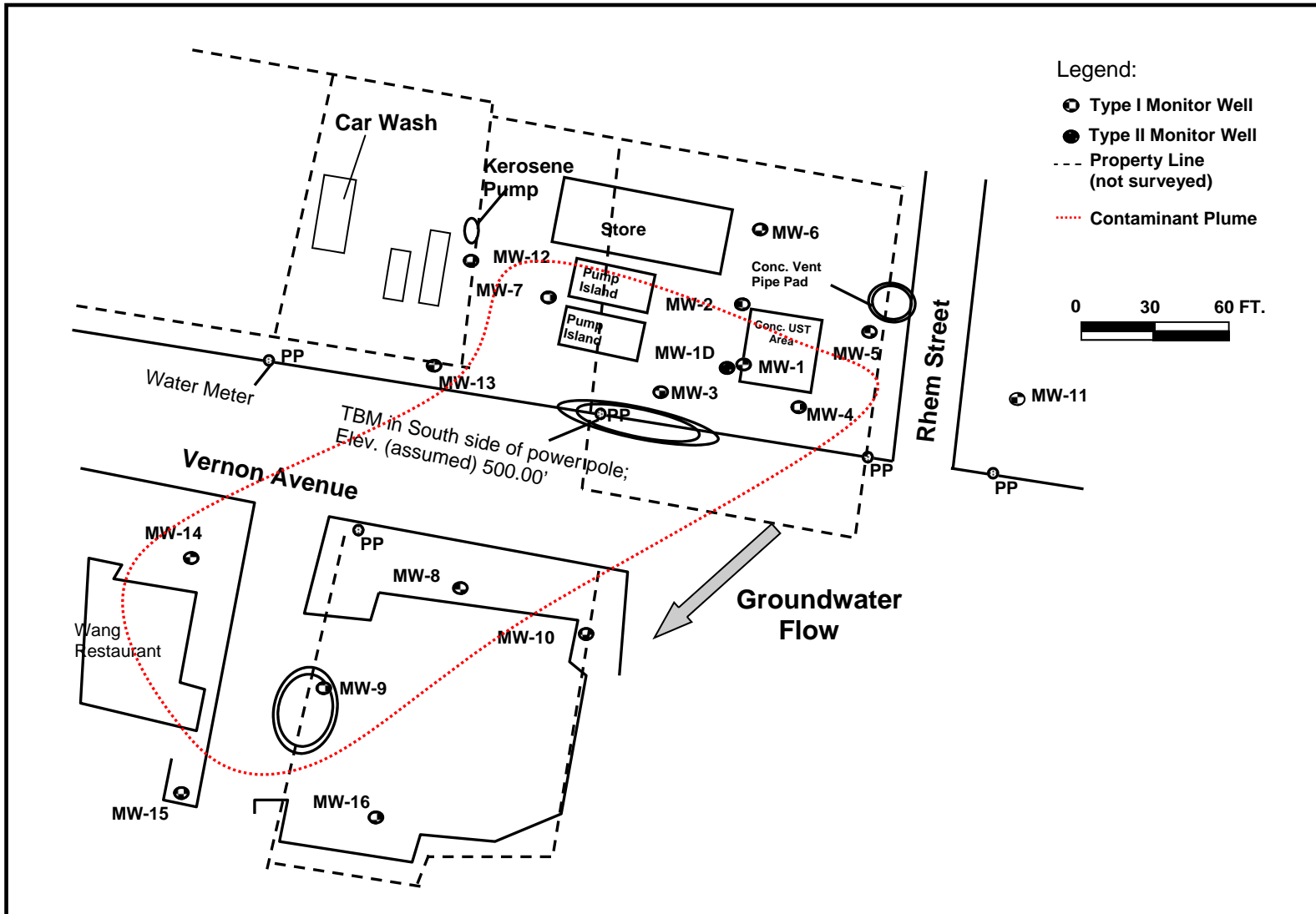
inVentures STRATEGY

- inVentures wants to showcase the gPRO[®] HP and have it demonstrated at as many sites as possible
- A gPRO[®] HP unit to be used for a short period of time to dramatically boost oxygen levels in the aquifer

CLEAN-UP STRATEGY

- There are very high concentrations of BTEX and MTBE in a very localized area of the site
 - The periphery areas are being handled by the original six iSOC used
 - In the high concentration areas a vacuum truck was used to pull vapors and contaminated water from the site
 - The gPRO[®] HP was used to replace the water removed with clean highly oxygenated water (~ 60 to 70 ppm)
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SITE MAP



RESULTS

- The work was carried out very recently and there are no sampling events allowed for 90 days after this removal and reinjection process. The gPRO[®] HP proved easy to move around the site and worked well in the vacuum / reinjection of highly oxygenated water remediation scenario. The vacuum / reinjection method is another way in which gPRO[®] HP can be used.