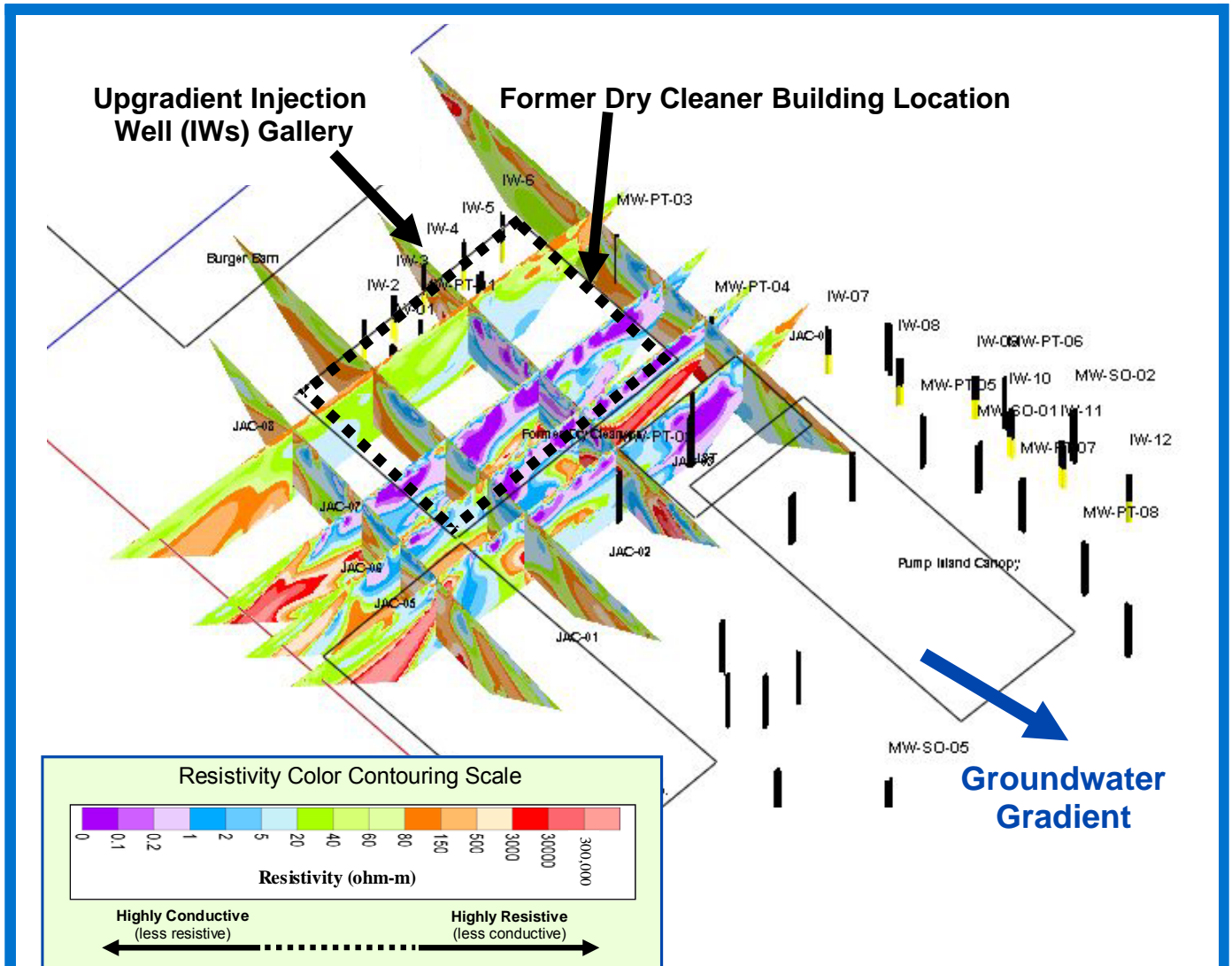




PCE/TCE and Bioactivity at a Dry Cleaners Site

GeoTrax Survey™ Case Study (Page 1 of 3)



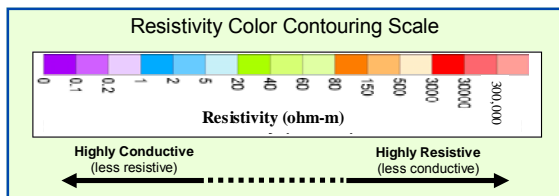
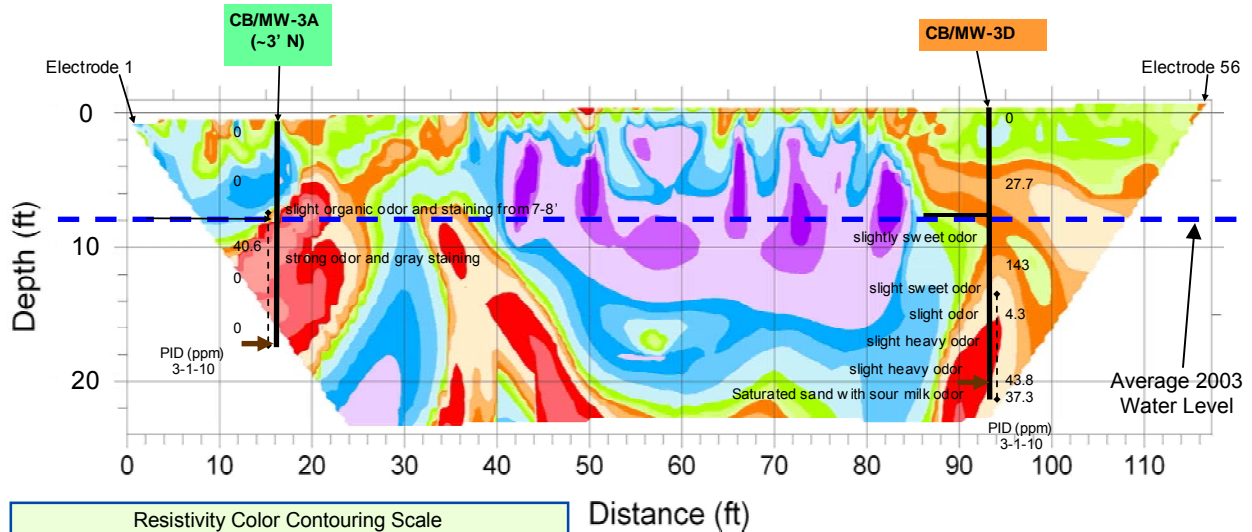
GeoTrax Survey™ 2-D Images Visualized in 3-D Model

Bottom Line:

GeoTrax Survey™ image was confirmation drilled and results indicated the following:

- Highly resistive (**ORANGE/RED**) - zones with untreated PCE dissolved phase concentrations and/or DNAPL; no daughter products present
- Low resistivity/highly conductive (**PURPLE**) - biodegraded DNAPL and/or related dissolved phase contamination resulting from injection work; confirmed daughter products present

GeoTrax Survey™ 2-D Image w/ Confirmation Drilling Data



| Soil Sample Results | | | |
|--------------------------|-------------------|---------------------|--------|
| Boring | MW-3A | | MW-3D |
| | 3/1/2010 | | |
| | Standards (µg/kg) | Sample Depth (feet) | |
| | Industrial Soil | 16-17' | 20-22' |
| Parameters (µg/kg) | Screening Level | | |
| Trichloroethene | 14000 | U | U |
| Tetrachloroethene | 2700 | 13.5 | 10.4 |
| cis-1,2-Dichloroethene | 10000000 | U | 7.96 |
| 1,1-Dichloroethene | 11000000 | U | U |
| trans-1,2-Dichloroethene | 5000000 | U | U |
| Vinyl Chloride | 1700 | U | U |
| Benzene | 5600 | U | U |
| Toluene | 46000000 | U | U |
| Ethylbenzene | 29000 | U | U |
| Total Xylenes | 62000000 | U | U |
| Methyl-t-butyl ether | 190000 | U | U |

| Groundwater Sample Results | | | |
|----------------------------|------------------|--------|-------|
| Boring | MW-3A | | MW-3D |
| | 3/1/2010 | | |
| | Standards (µg/L) | | |
| | MCL's | | |
| Parameters (µg/L) | Drinking Water | | |
| Trichloroethene | 5 | 0.670J | 1340 |
| Tetrachloroethene | 5 | 97.9 | 43000 |
| cis-1,2-Dichloroethene | 6 | 0.930J | 4310 |
| 1,1-Dichloroethene | 6 | U | 5.09 |
| trans-1,2-Dichloroethene | 10 | U | 61.2 |
| Vinyl Chloride | 0.5 | U | 2.28 |
| Benzene | 1 | 1.32 | 1.52 |
| Toluene | 150 | 0.69 | U |
| Ethylbenzene | 300 | 6.66 | 0.62 |
| Total Xylenes | 1750 | 13.59 | 5.18 |
| Methyl-t-butyl ether | 13 | U | U |

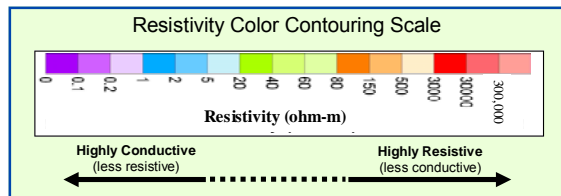
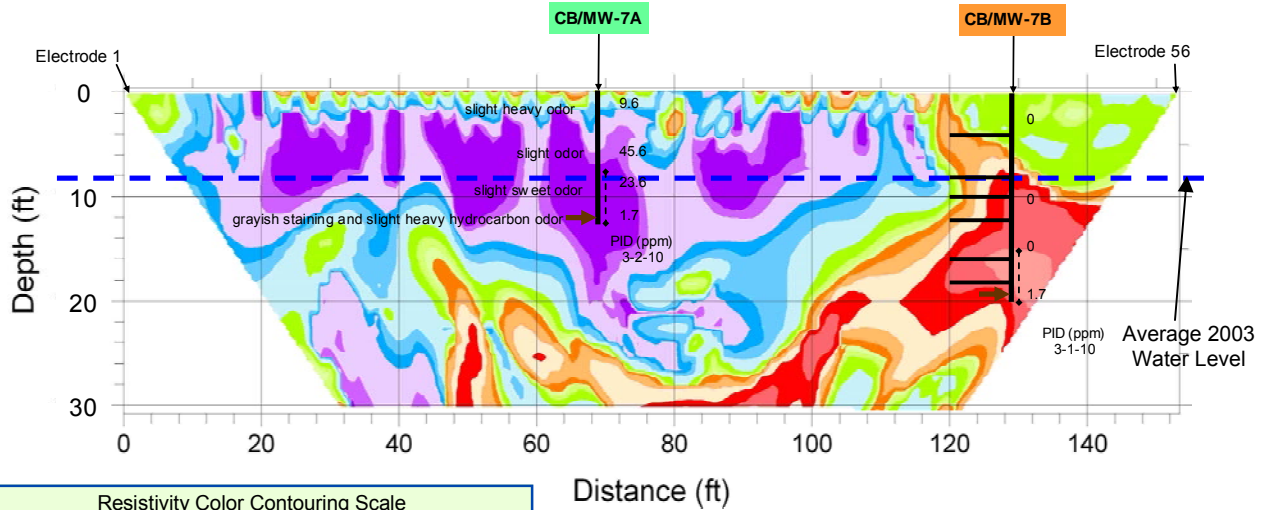
Bottom Line:

- The confirmation borings in this image target resistive anomalies.
- Resistive anomalies confirmed to be impacted by levels of solvents above regulatory limits for groundwater.
- High PCE in groundwater data at CB/MW 3D indicates likely presence of DNAPL



PCE/TCE and Bioactivity at a Dry Cleaners Site

GeoTrax Survey™ Case Study (Page 3 of 3)



| Soil Sample Results | | | |
|---------------------------|------------------------|---------------------|--------|
| Boring Sample Date | Standards (µg/kg) | MW-7A | MW-7B |
| | | 3/2/2010 | |
| | | Sample Depth (feet) | |
| | Industrial Soil | 11-13' | 18-20' |
| Parameters (µg/kg) | Screening Level | | |
| Trichloroethene | 14000 | U | U |
| Tetrachloroethene | 2700 | U | 18.7 |
| cis-1,2-Dichloroethene | 10000000 | U | 6.59 |
| 1,1-Dichloroethene | 1100000 | U | U |
| trans-1,2-Dichloroethene | 500000 | U | U |
| Vinyl Chloride | 1700 | U | U |
| Benzene | 5600 | U | U |
| Toluene | 46000000 | U | U |
| Ethylbenzene | 29000 | U | U |
| Total Xylenes | 62000000 | U | U |
| Methyl-t-butyl ether | 190000 | U | U |

| Groundwater Sample Results | | | |
|----------------------------|-----------------------|----------|--------|
| Boring Sample Date | Standards (µg/L) | MW-7A | MW-7B |
| | | 3/2/2010 | |
| | | MCL's | |
| | Drinking Water | | |
| Parameters (µg/L) | Drinking Water | | |
| Trichloroethene | 5 | 317 | 0.610J |
| Tetrachloroethene | 5 | 925 | 39.2 |
| cis-1,2-Dichloroethene | 6 | 1070 | 1.45 |
| 1,1-Dichloroethene | 6 | 1.42 | U |
| trans-1,2-Dichloroethene | 10 | 76.4 | U |
| Vinyl Chloride | 0.5 | 1.16 | U |
| Benzene | 1 | U | U |
| Toluene | 150 | U | U |
| Ethylbenzene | 300 | U | U |
| Total Xylenes | 1750 | U | U |
| Methyl-t-butyl ether | 13 | U | 3.02 |

Bottom Line:

- This GeoTrax Survey™ image detected zones with solvent impact above groundwater regulatory limits in both conductive (purple zones) and resistive anomalies (red zones).
- Conductive zones likely indicate ongoing bioactivity; daughter products present.