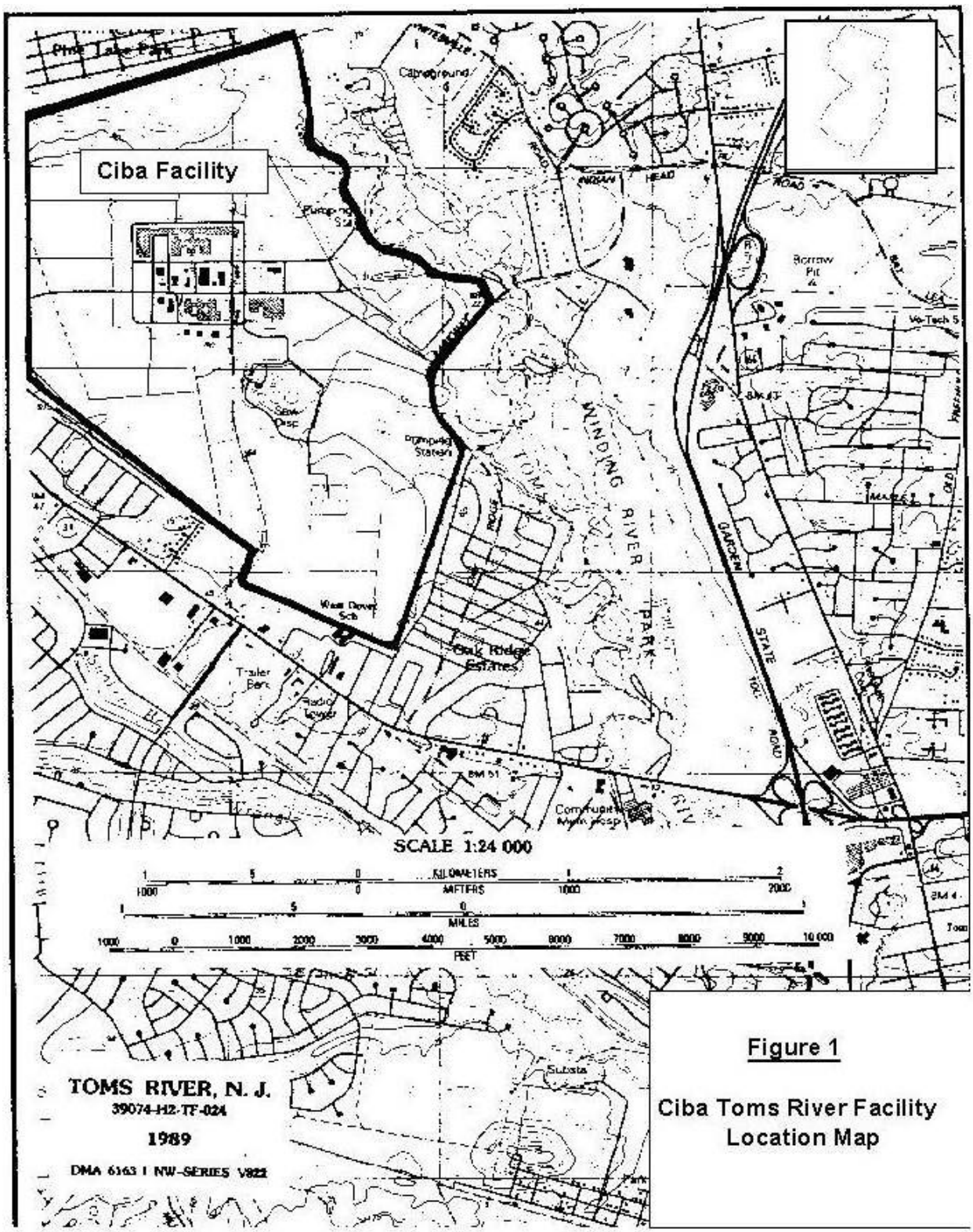


Figure 1

Ciba Toms River Facility
Location Map

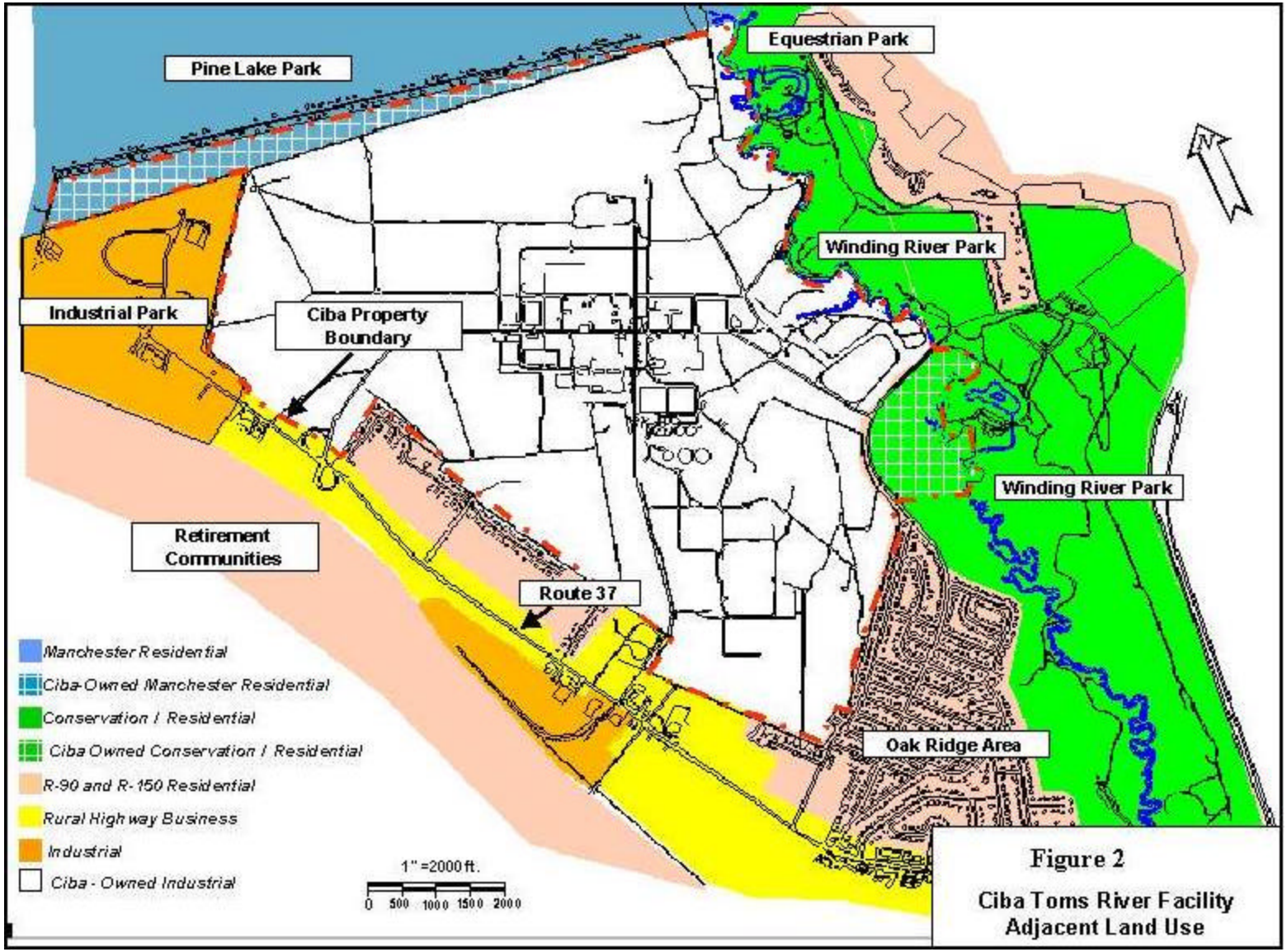


Figure 2

Ciba Toms River Facility Adjacent Land Use

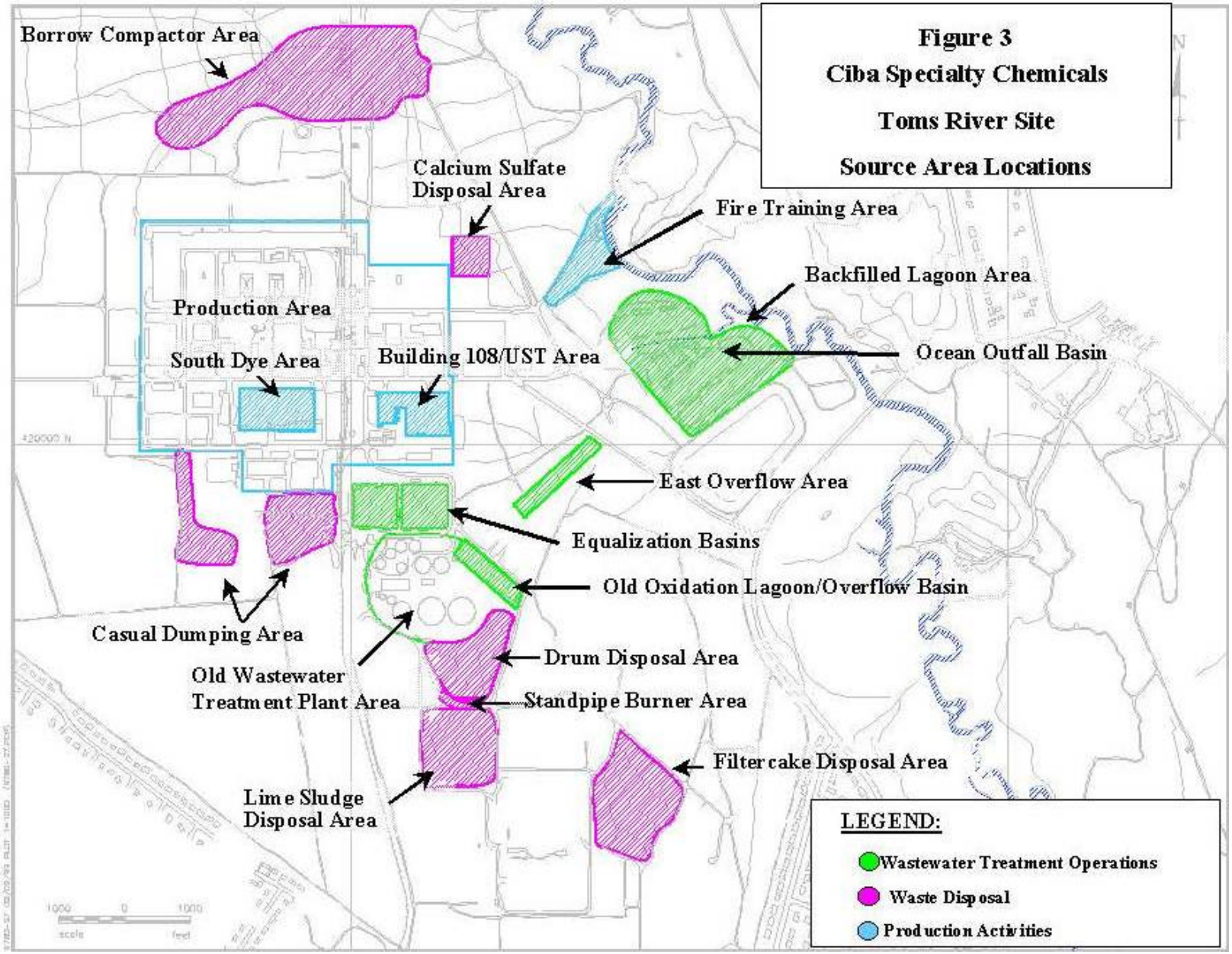
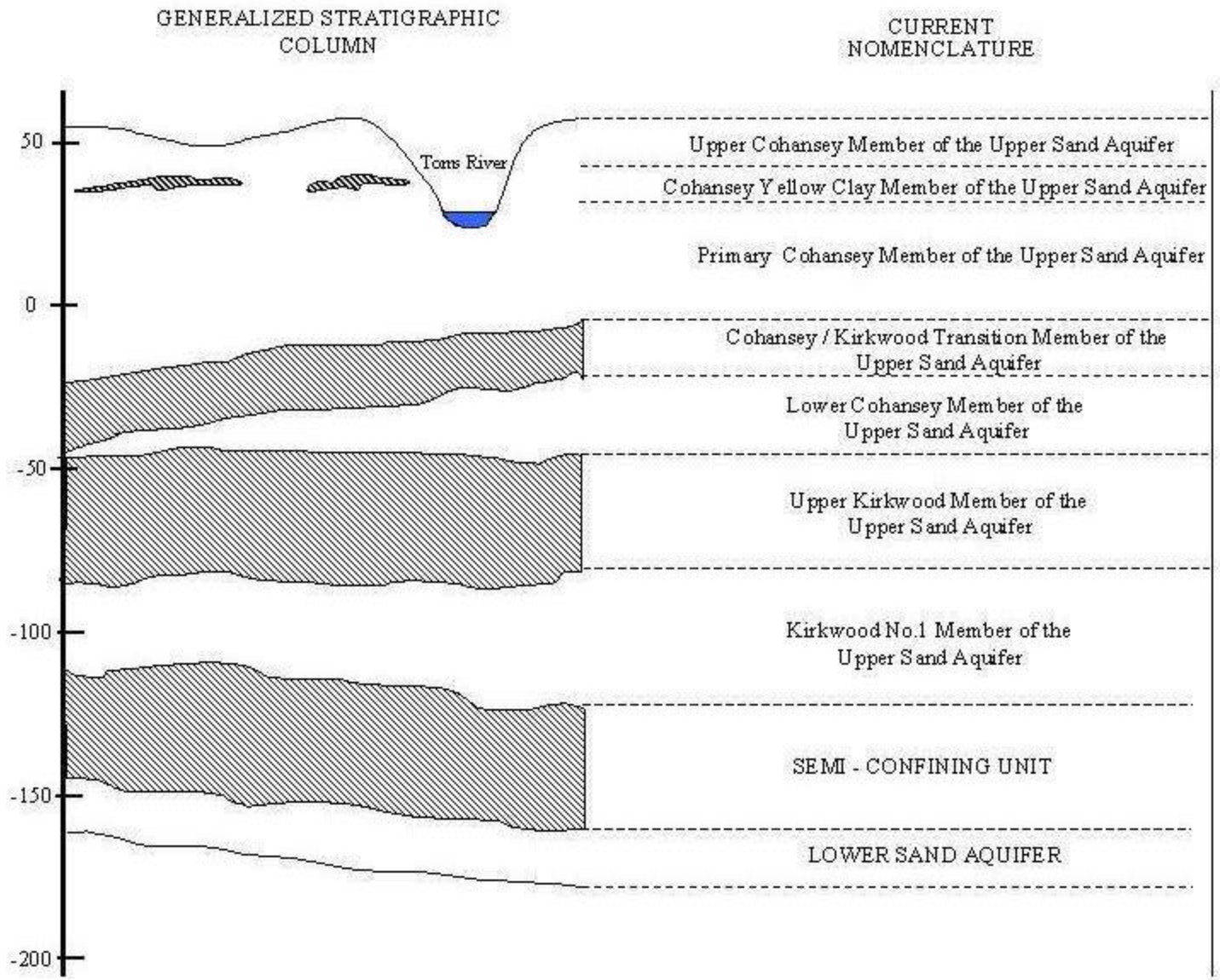


Figure 3
Ciba Specialty Chemicals
Toms River Site
Source Area Locations
Borrow Compactor Area
Calcium Sulfate Disposal Area
Fire Training Area
Backfilled Lagoon Area
Production Area
South Dye Area
Building 108/UST Area
Ocean Outfall Basin
East Overflow Area
Equalization Basins
Old Oxidation Lagoon/Overflow Basin
Casual Dumping Area
Drum Disposal Area
Old Wastewater Treatment Plant Area
Standpipe Burner Area
Filtercake Disposal Area
Lime Sludge Disposal Area
LEGEND:
Wastewater Treatment Operations
Waste Disposal
Production Activities

Figure 4


GENERALIZED STRATIGRAPHIC COLUMN
CURRENT NOMENCLATURE
50
0
-50
-100
-150
-200
Toms River
Upper Cohansey Member of the Upper Sand Aquifer
Cohansey Yellow Clay Member of the Upper Sand Aquifer
Primary Cohansey Member of the Upper Sand Aquifer
Cohansey / Kirkwood Transition Member of the Upper Sand Aquifer
Lower Cohansey Member of the Upper Sand Aquifer
Upper Kirkwood Member of the Upper Sand Aquifer
Kirkwood No.1 Member of the Upper Sand Aquifer
SEMI - CONFINING UNIT
LOWER SAND AQUIFER

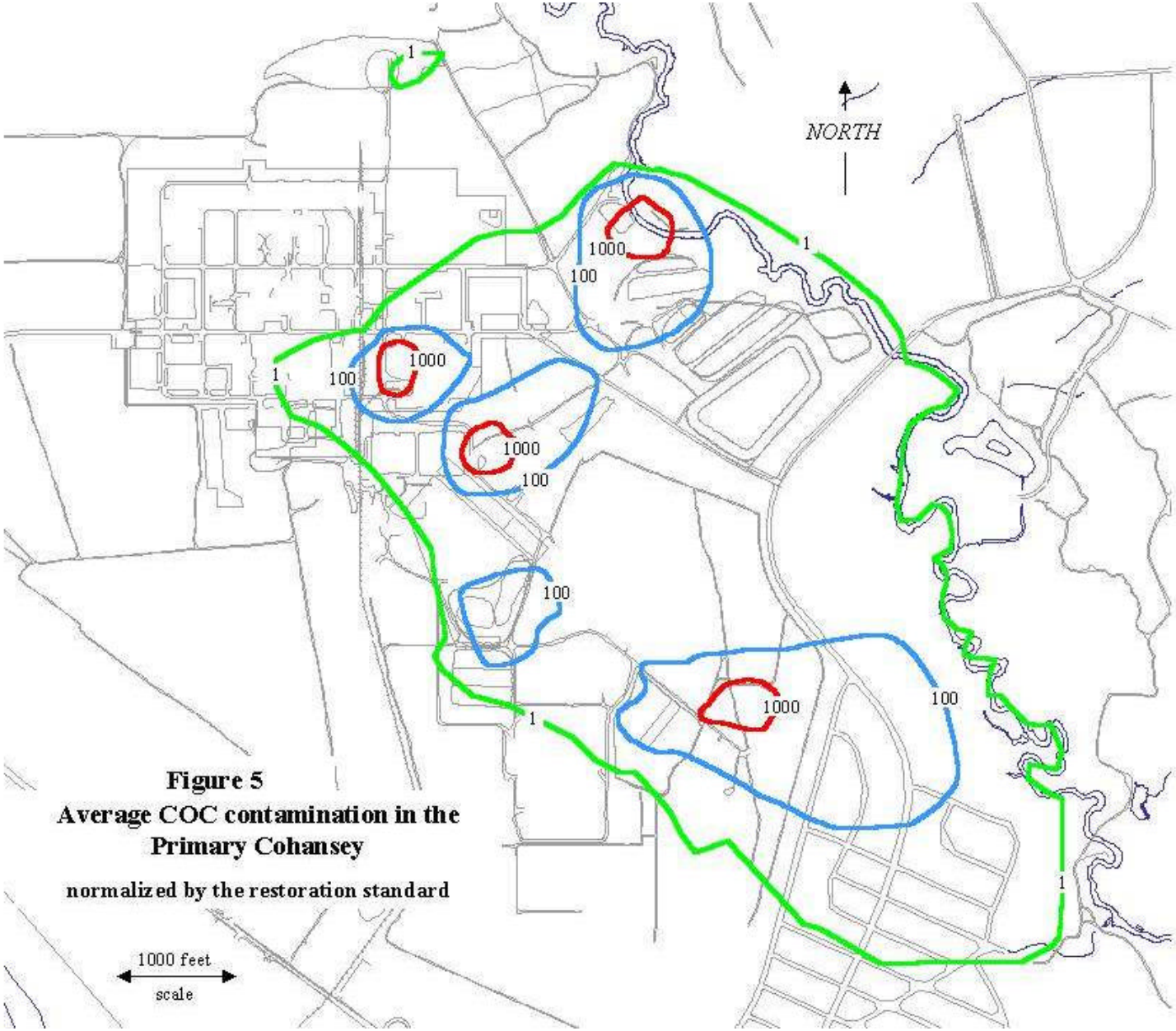


Figure 5
Average COC contamination in the Primary Cohansey

normalized by the restoration standard

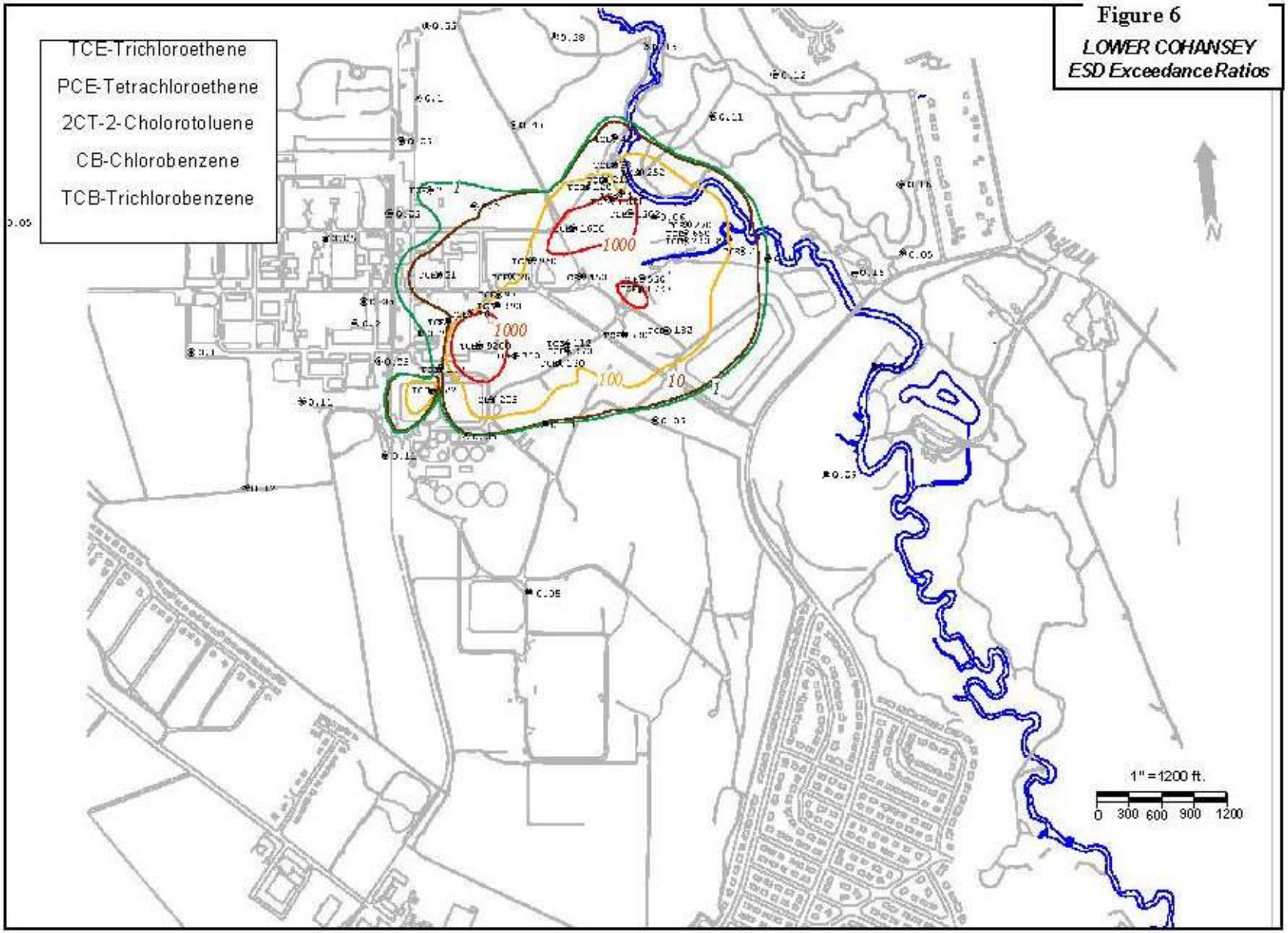


Figure 6
LOWER COHANSEY
ESD Exceedance Ratios

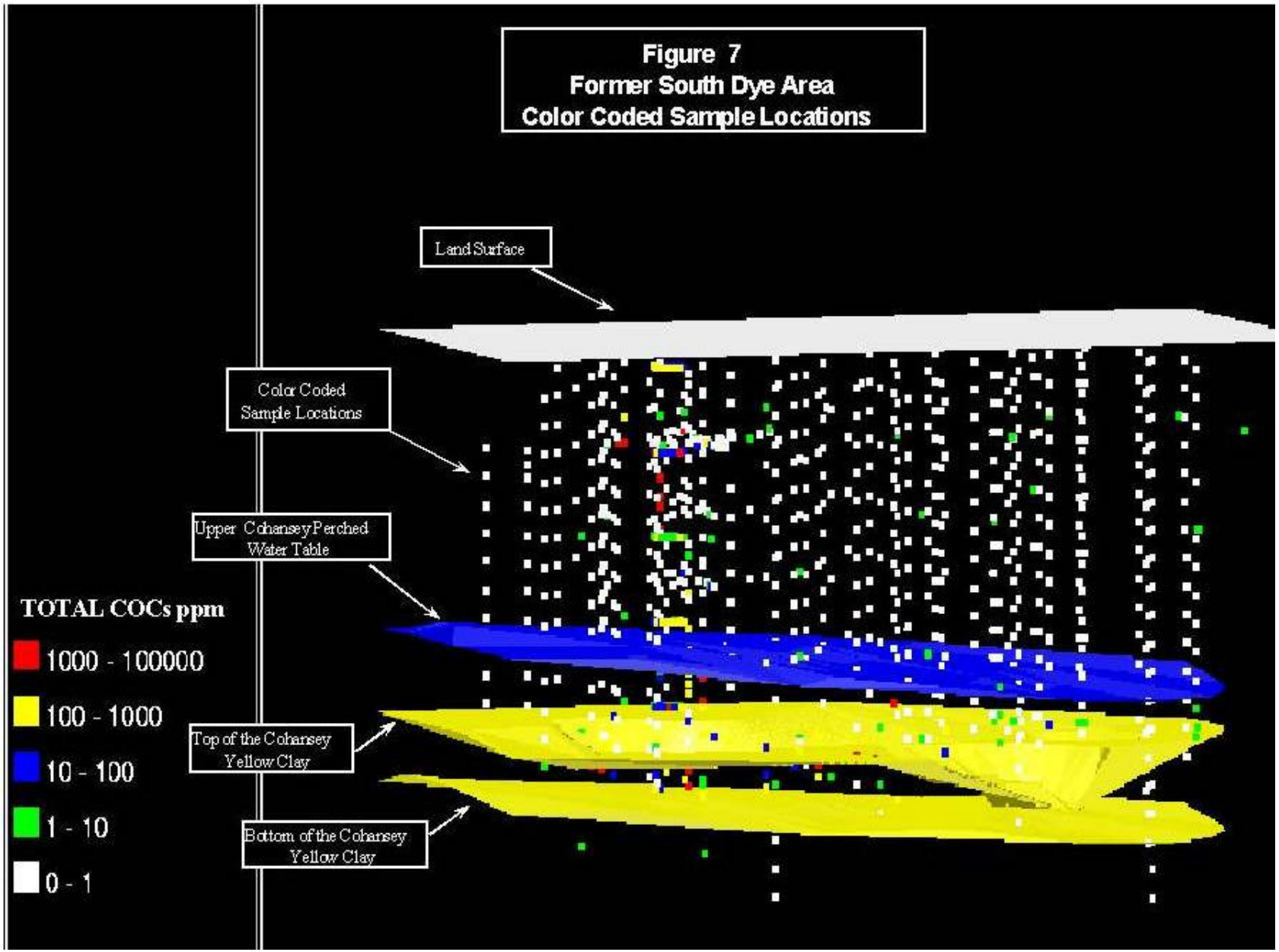


Figure 7
Former South Dye Area
Color Coded Sample Locations
Land Surface
Color Coded Sample Locations
Upper Cohansey Perched Water Table
Top of the Cohansey Yellow Clay
Bottom of the Cohansey Yellow Clay
TOTAL COCs ppm
1000 - 100000
100 - 1000
10 - 100
1 - 10
0 - 1

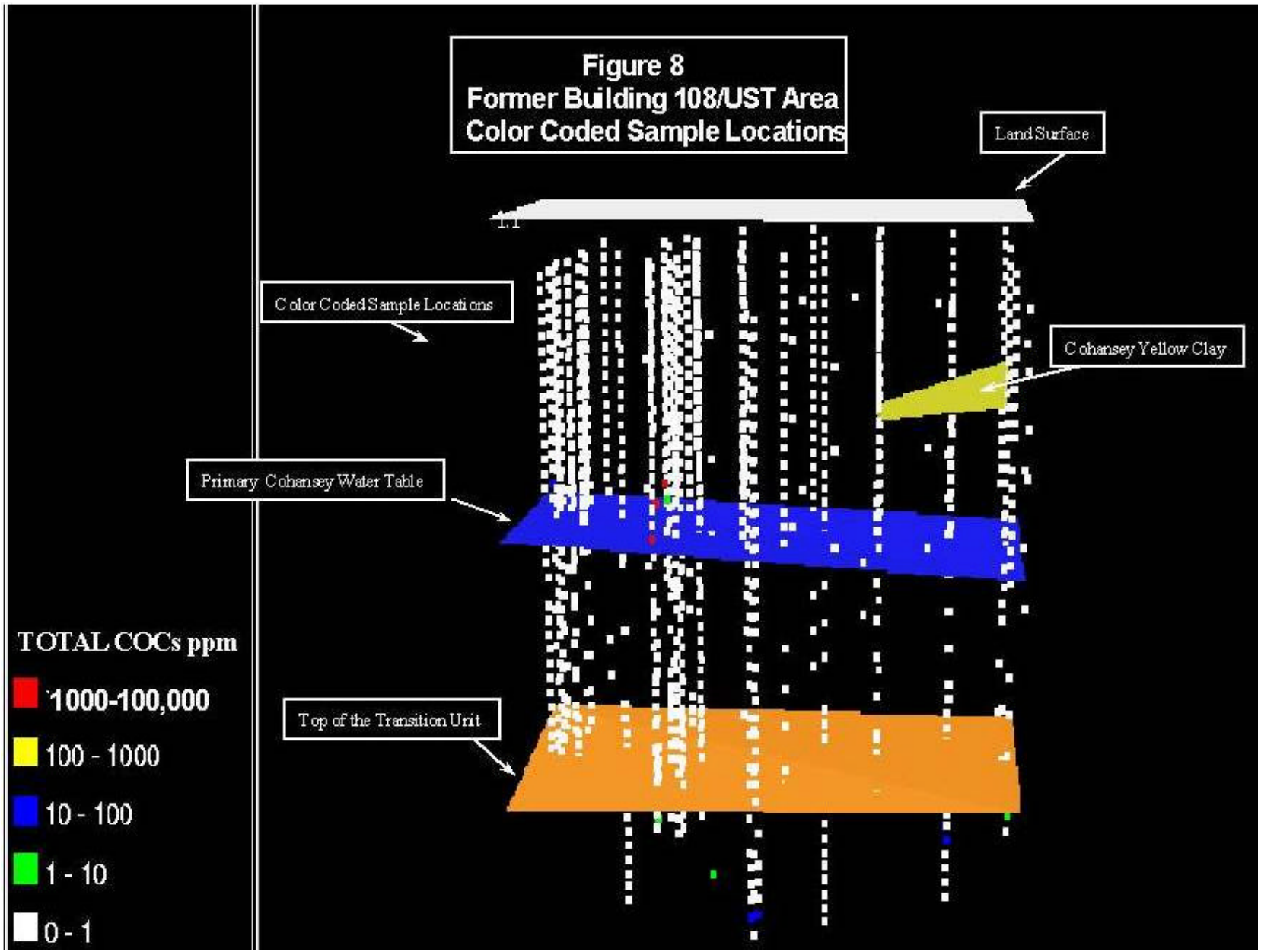


Figure 8
Former Building 108/UST Area
Color Coded Sample Locations
Land Surface
Color Coded Sample Locations
Cohansey Yellow Clay
Primary Cohansey Water Table
Top of the Transition Unit
TOTAL COCs ppm
1000-100,000
100 - 1000
10 - 100
1 - 10
0 - 1

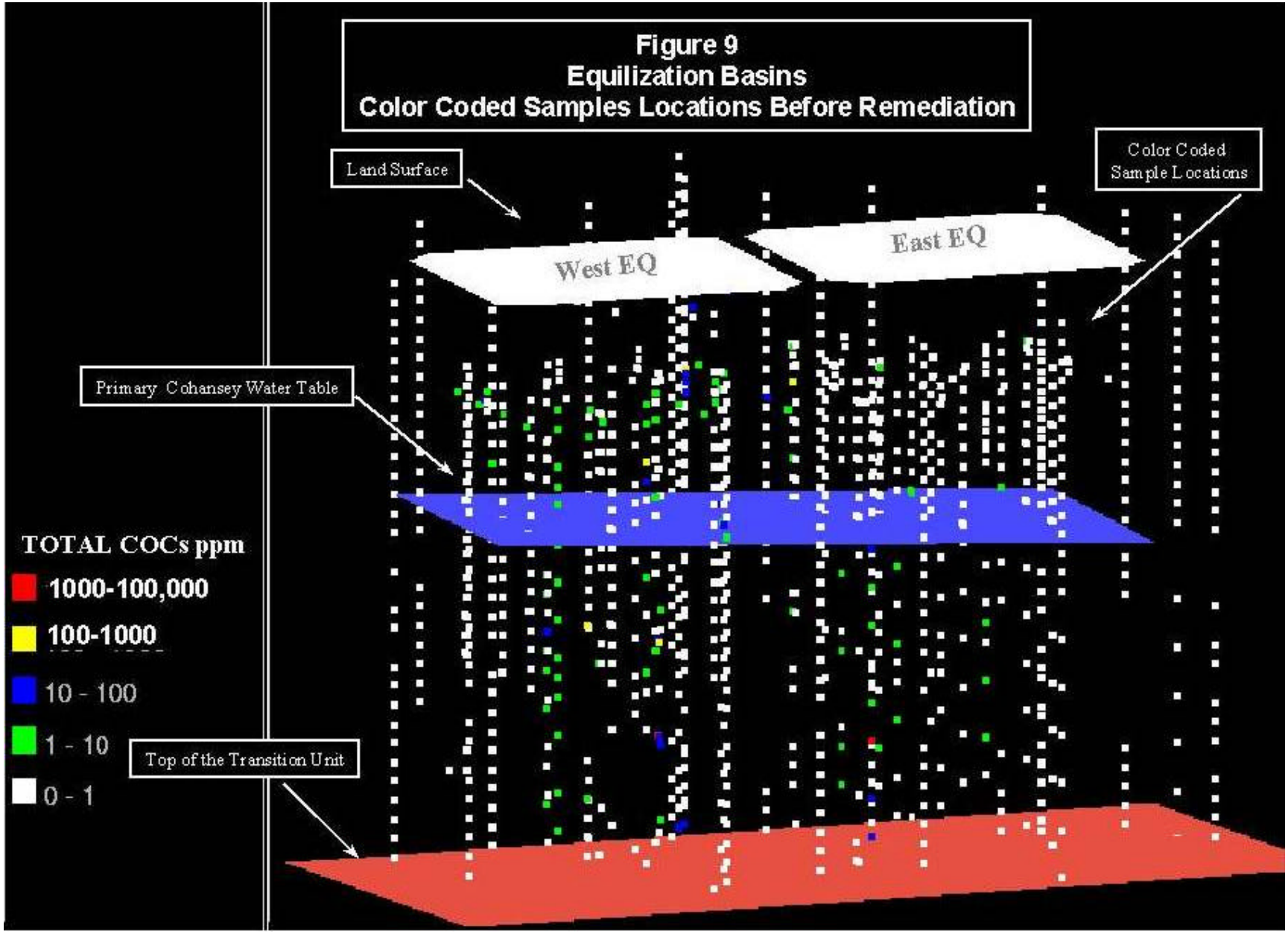


Figure 9
Equilization Basins
Color Coded Samples Locations Before Remediation
Land Surface
Color Coded Sample Locations
West EQ
East EQ
Primary Cohansey Water Table
TOTAL COCs ppm
1000-100,000
100-1000
10 - 100
1 - 10
0 - 1
Top of the Transition Unit

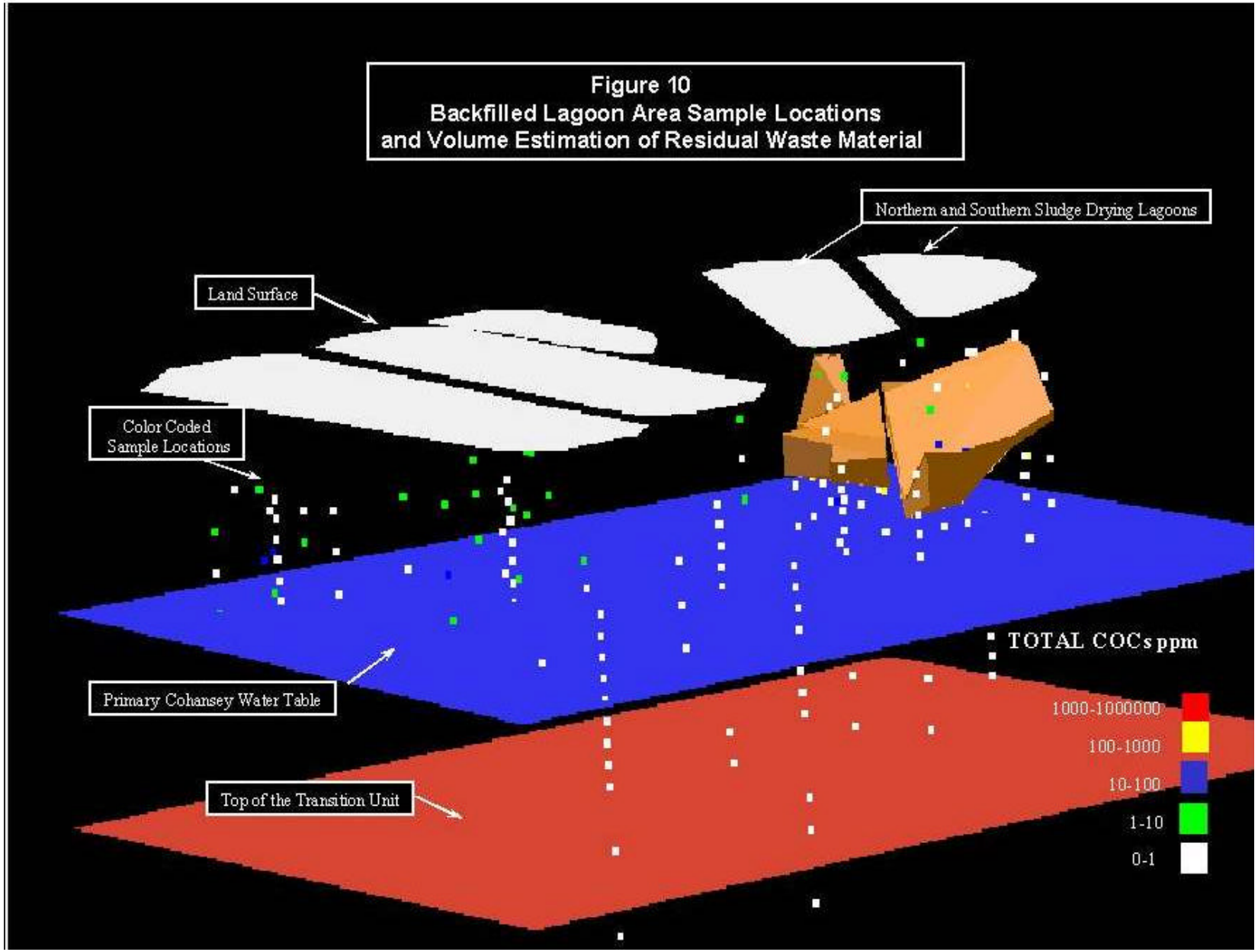


Figure 10
Backfilled Lagoon Area Sample Locations
and Volume Estimation of Residual Waste Material
Northern and Southern Sludge Drying Lagoons
Land Surface
Color Coded
Sample Locations
Primary Cohansey Water Table
Top of the Transition Unit
TOTAL COCs ppm
1000-1000000
100-1000
10-100
1-10
0-1