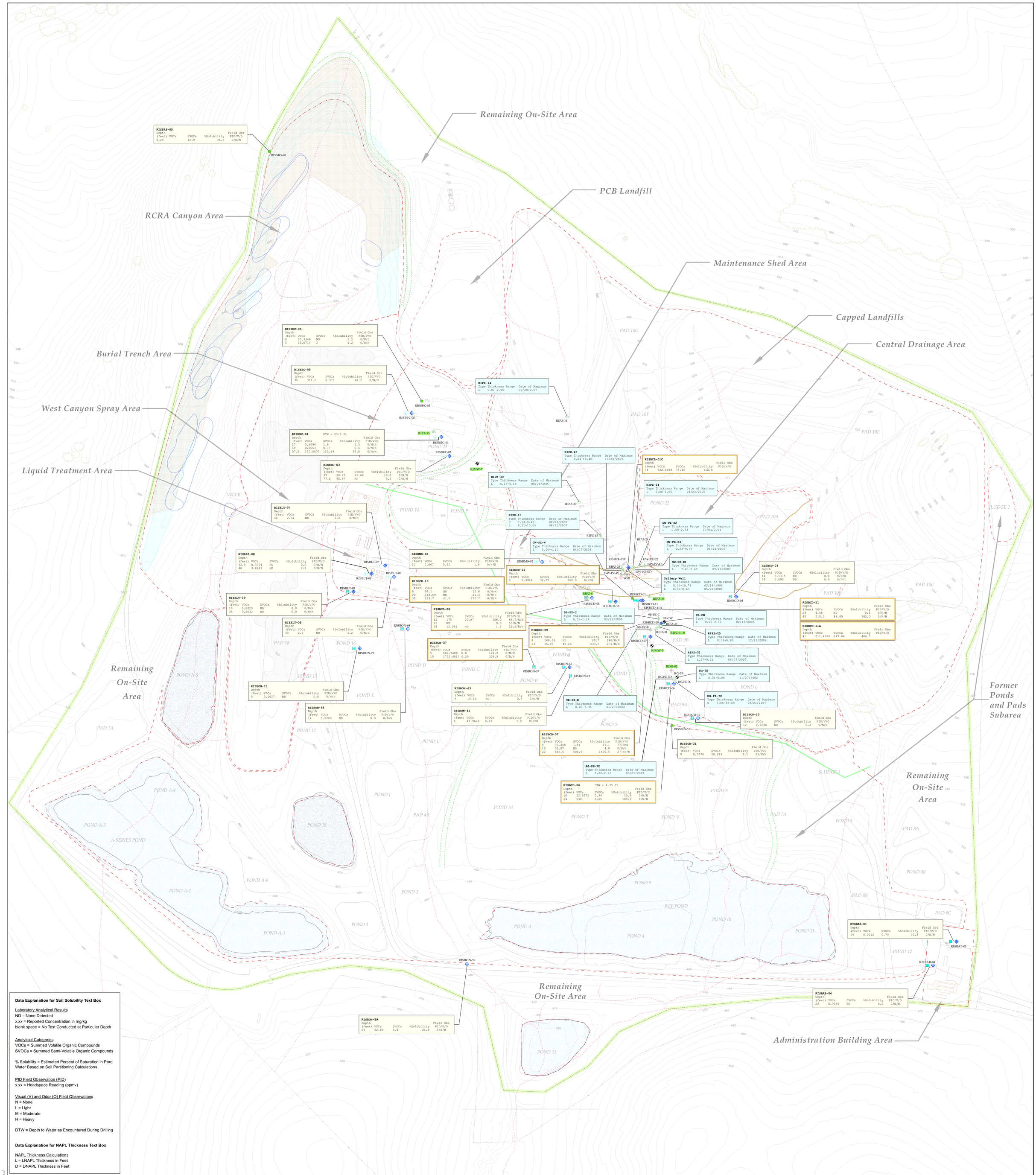

Data Explanation for Soil Solubility Text Box

Laboratory Analytical Results
ND = None Detected
x.xx = Reported Concentration in mg/kg
blank space = No Test Conducted at Particular Depth

Analytical Categories
VOCs = Summed Volatile Organic Compounds
SVOCs = Summed Semi-Volatile Organic Compounds

% Solubility = Estimated Percent of Saturation in Pore Water Based on Soil Partitioning Calculations

PID Field Observation (PID)
x.xx = Headspace Reading (ppmv)

Visual (V) and Odor (O) Field Observations
N = None
L = Light
M = Moderate
H = Heavy

DTW = Depth to Water as Encountered During Drilling

Data Explanation for NAPL Thickness Text Box

NAPL Thickness Calculations
L = LNAPL Thickness in Feet
D = DNAPL Thickness in Feet

Notes

[1] Only soil samples and well locations where solubility calculations, NAPL observations or NAPL thickness calculations occurred are shown on the map. All other soil or well locations have been excluded from the map for clarity.

[2] Drilling observation data presented in this figure are fully described in Appendix E; NAPL observations from monitoring wells and piezometers are presented in Appendix F; chemical partitioning calculations are presented in Appendix M. Primary sources for data presented in this figure are: Tables E-6, F-6, M-1, and M-2; and Summary Analytical Results and Field Observations figures in Appendix B.

Explanation

Soil Samples[1] with Solubility Calclulations
- Surface Soil (Type 2)
- Surface to Shallow Soil (Type 3)
- Surface to Medium Soil (Type 4)
- Surface to Deep Soil (Type 5)
- Surface to Deep Soil - Groundwater and/or Contact if Encountered (Type 6)
- NAPL (Type 7)

Wells[1] with NAPL Observed or Measureable NAPL Thickness
- Monitoring Well
- Piezometer
- Extraction Well

Other Observed NAPL Location
- Geologic Boring

RIPZ-31-B NAPL Observed During Drilling, Development and/or Sampling (No Measurable NAPL Thickness)

Text Box Symbols [2]
- Soil Solubility Data (> 100%)
- Soil Solubility Data (< 100%)
- NAPL Thickness Data

Other Site Features
- Casmalia Site Boundary
- Study Area Boundary
- P/S Landfill Clay Barrier (1981 Photograph)
- Perimeter Source Control Trench (Brierly & Lyman, 1989)
- Perimeter Control Trench (Brierly & Lyman, 1989)
- Terrace and Surface Impoundment (Based on 10/06/83 & 07/06/84 Photos)
- Buttress
- Burial Trench Location (Figure A21-1-1 Woodward-Clyde, 1988)
- Historical Natural Drainage (Based on 1956 Photo, 1974 Topographic Maps, and Figures 21-2 and 21-3 Woodward-Clyde, 1988)
- Road Remnant
- Historical Feature
- Former Waste Burial Area
- Fence
- Oil Field Waste Spreading Area (Based on 1983, 1985/86 Photos)
- Oil Field Waste Spreading Area (Figure A21-1-1 Woodward-Clyde, 1988)
- 1983 Spray Area
- Stormwater Pond
- Treated Liquid Impoundment

0 150 300
Scale in Feet

Source: Topographic base map provided by Pacific Engineering, Inc. from aerial survey dated March 4, 2004.

Figure M-4

Multimedia NAPL Observations

Final Remedial Investigation Report
Casmalia Resources Superfund Site
January 2011

T:\CASMALIA\GIS\deliverables\RI_Final_1\Figures\M-4_MultimediaNAPL.mxd