Figure 69. Gila-Land-1 (East) conductivity cross-sections

Gila - Land #1 (East) Parallel Line (on road- along eastern canal bank)

Gila - Land #1 (East) Perpendicular Line (extending ESE from toe of road slope)

<12% Fines

Lateral Scale (ft)

Conductivity (mS/m)

Depth referenced to canal road level

Approx. Distance North of 5th Street Bridge (ft)

Depth referenced to field level

Distance ESE of Canal Bank at Sta 2050 (ft)
Figure 70. Gila-Land-2 conductivity cross-sections
Figure 71. CRIT survey area

Marine Resistivity Survey Line

CRIT Canals

Basemap Source: U.S. Census Bureau 2007 TIGER/Line shapefiles

Technical Services Division
Figure 72. CRIT average conductivity and land resistivity locations
Figure 73. CRIT Canal conductivity cross-section (part 1 of 3)

Depth referenced to canal water surface

<12% Fines

Conductivity (mS/m)

Lateral Scale (ft)

5x Vertical Exaggeration

CRIT Canal (Section A)

CRIT Canal (Section B)

CRIT-Land-1
Figure 74. CRIT Canal conductivity cross-section (part 2 of 3)

- CRIT Canal (Section C)
- CRIT Canal (Section D)
- CRIT Canal (Section E)

Depth referenced to canal water surface

<12% Fines

Conductivity (mS/m)

Approx. Distance North of Peterson Road (ft)

Approx. Distance West of Control Structure (ft)

Approx. Distance North of Lateral 14 (ft)

Lateral Scale (ft)
5x Vertical Exaggeration
Figure 75. CRIT Canal conductivity cross-section (part 3 of 3)

- CRIT-Land-2
- CRIT Canal (Section F)
- CRIT Canal (Section G)

- Approx. Distance North of Lateral 12 (ft)
- Depth (ft)
- Approx. Distance North of Lateral 6 (ft)
- Conductivity (mS/m)

<12% Fines

Depth referenced to canal water surface

5x Vertical Exaggeration
Comparison of surface geophysical models and geophysical logs at 5-foot depth intervals

R² = 0.82

Figure 78. Correlation of conductivity values measured with surface and downhole methods
Figure 79. Correlation of conductivity values and percentage of fines.