6726000 6728000 6730000 6732000 6734000 6736000 6738000 6740000 6742000 6744000 6746000 6748000

1974000 1972000 1970000 1968000 1966000

Golf Course, Near River: Sand up to 60 ft thick

Golf Course Levee Toe Road: Mixture of Sand (up to 40 ft thick) and Clay

Golf Course Past H St Bridge Along Levee Toe Road: Clay with pockets of Sand (up to 10 ft thick)

Howe Ave to Watt Ave Levee Toe Road: Mostly Clay until close to Watt Ave where it turns to Sand

Predominantly Sand

Bicycle Path and Levee Toe Road Upstream From Watt Ave: Mostly Clay with Interspersed Sand Lenses 5 to 40 ft thick

Horse Trails, Gravel Path, and Bicycle Path Upstream From Watt Ave: Sand with variable thickness (5 to 40 ft)

Predominantly Clay

H St to Howe Ave Levee Toe Road: Clay with pockets of Sand (up to 20 ft thick)

H St to Howe Ave Near River: Sand (up to 50 ft thick) with shallow clay zones

Howe Ave to Watt Ave Bicycle Path: Large Sand Lenses up to 60 ft thick

Water Treatment Plant to Howe Ave Near River: Sand (up to 50 ft thick)

1 2 3 4 5 6

6726000 6728000 6730000 6732000 6734000 6736000 6738000 6740000 6742000 6744000 6746000 6748000

Apparent resistivity (ohm-m)

50.0 70.0 100.0 150.0 200.0 500.0 700.0 1000.0

500 0 500 1000 1500 2000 2500

US survey foot

NAD83 / California CS83 zone 2

Gem-2 Calibration Locations

Potential Ground Truth Trench Locations

USGS science for a changing world

U.S. Department of the Interior
U.S. Geological Survey
OPEN-FILE REPORT 2008-1109

Plate 11

USGS American River Levee Surveys

Generalized Geophysical Interpretation
Base Map GEM-2, 44kHz Data (Plate 5)

Data acquired May 2007 by USGS CICT
Prepared for USACE Sacramento District
Inter-agency Agreement W62N6M70929830

Map Prepared by TA, January 2008