Due to the success of the test line drilling results, IP and resistivity data were collected on the entire 22 acre project area. Smooth-model inversion results of IP at 10 feet depth show only anomalies in Lot 17 and Lot 18. A total of 3767 stations on 57 lines were acquired. With 12 n-spacings per diagonal, this resulted in a total of 45,204 data points.
Smooth-model inversion results at 20 feet depth for the entire 22 acres at the Rio Nuevo North project area. IP highs caused by the street lights are evident on Lot 14, Line 0 as well as a small high on lot 16 that corresponds to a water main. Lots 1, 2, and 3 show no IP anomalies. Lot 17 and Lot 18 show IP highs, some of which are not easily correlated with cultural features. As expected from the historical records, the vast majority of the waste (based on IP effects) is about 20 feet and deeper.
Smooth-model inversion results at 30 feet depth for the entire 22 acres at the Rio Nuevo North project area. IP highs caused by the street lights are evident on Lot 14 on Line 0, as well as a small high on lot 16 that corresponds to a water main and chain-linked fence. Lot 11 contains a few small areas of weakly anomalous IP values. These can possibly be attributed to small amounts of clay in the subsurface. Lots 1, 2, and 3 show no IP anomalies. Again, lots 17 and 18 contain IP highs that are being verified by drilling.
Line 180 on Lots 1, 2, and 3 show no IP anomalies. The resistivity data shows a conductive surface layer over a more resistivity feature at depth.
Smooth-model and pseudosections of Line 450 and Lots 17 and 18. At this site, an IP anomaly (> 3 milliseconds) is interpreted as solid waste.
Only Lots 17 and 18 contain anomalous IP readings similar to the test line. Plan views of Lots 17 and 18 at 10 ft. depth for IP and resistivity data also show the location of berms, sewer lines, fences, power lines, and the interpreted outline of the garbage.
Plan views of Lots 17 and 18 at 20 ft. depth for IP and resistivity data also show the location of berms, sewer lines, fences, power lines, and the interpreted outline of the garbage. Note the linear IP high on the southeastern portion of the property. This anomaly correlates to an old dirt road in aerial photographs and may be an old utility line.
Plan views of Lots 17 and 18 at 30 ft. depth for IP and resistivity data contain many more IP highs. On the western edge of the property anomalies are being generated by the close proximity to the fence. The small, scattered highs throughout the eastern half are mostly the result of one or two high data points and are not interpreted as “significant” amounts of buried waste.