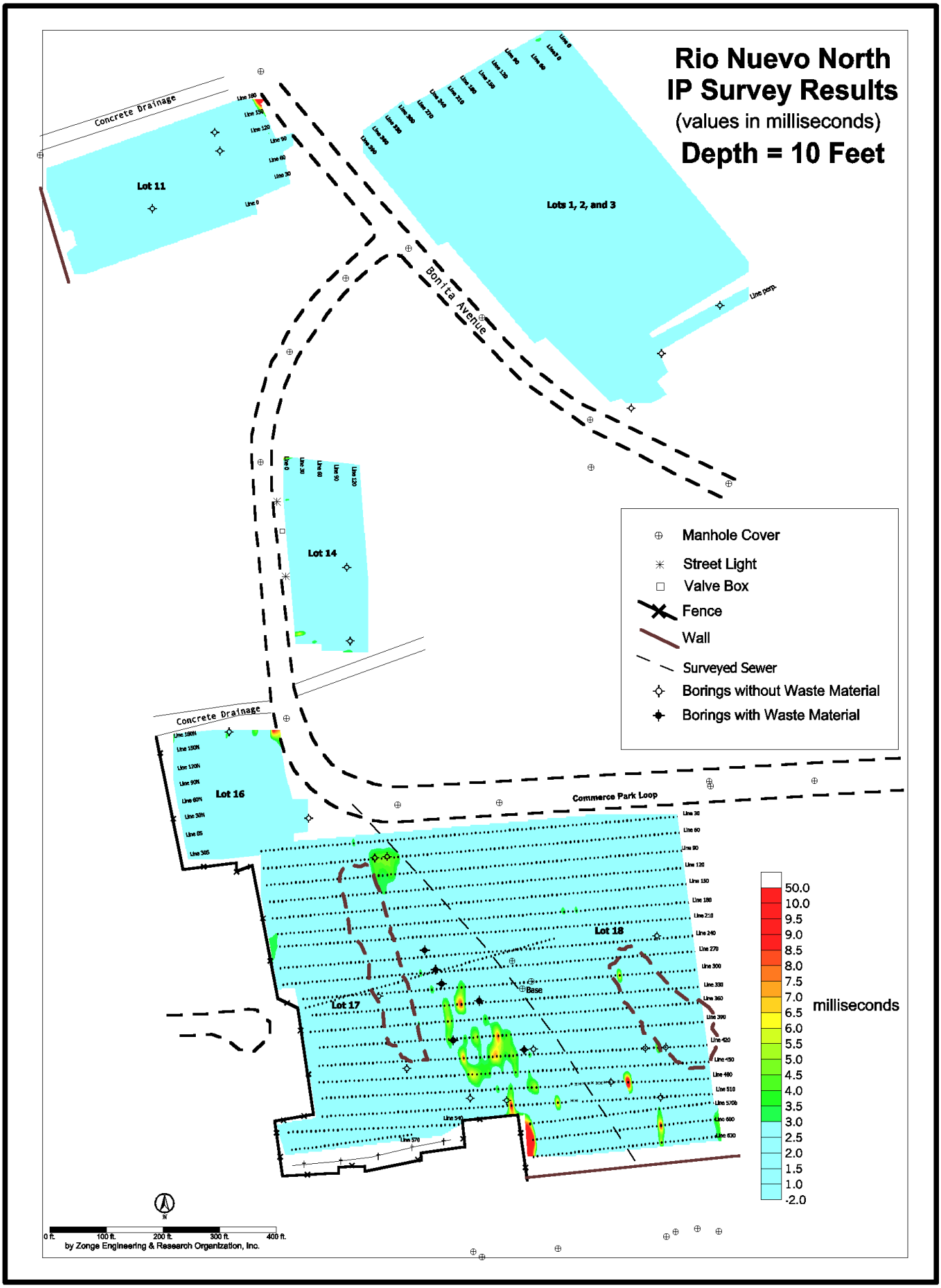
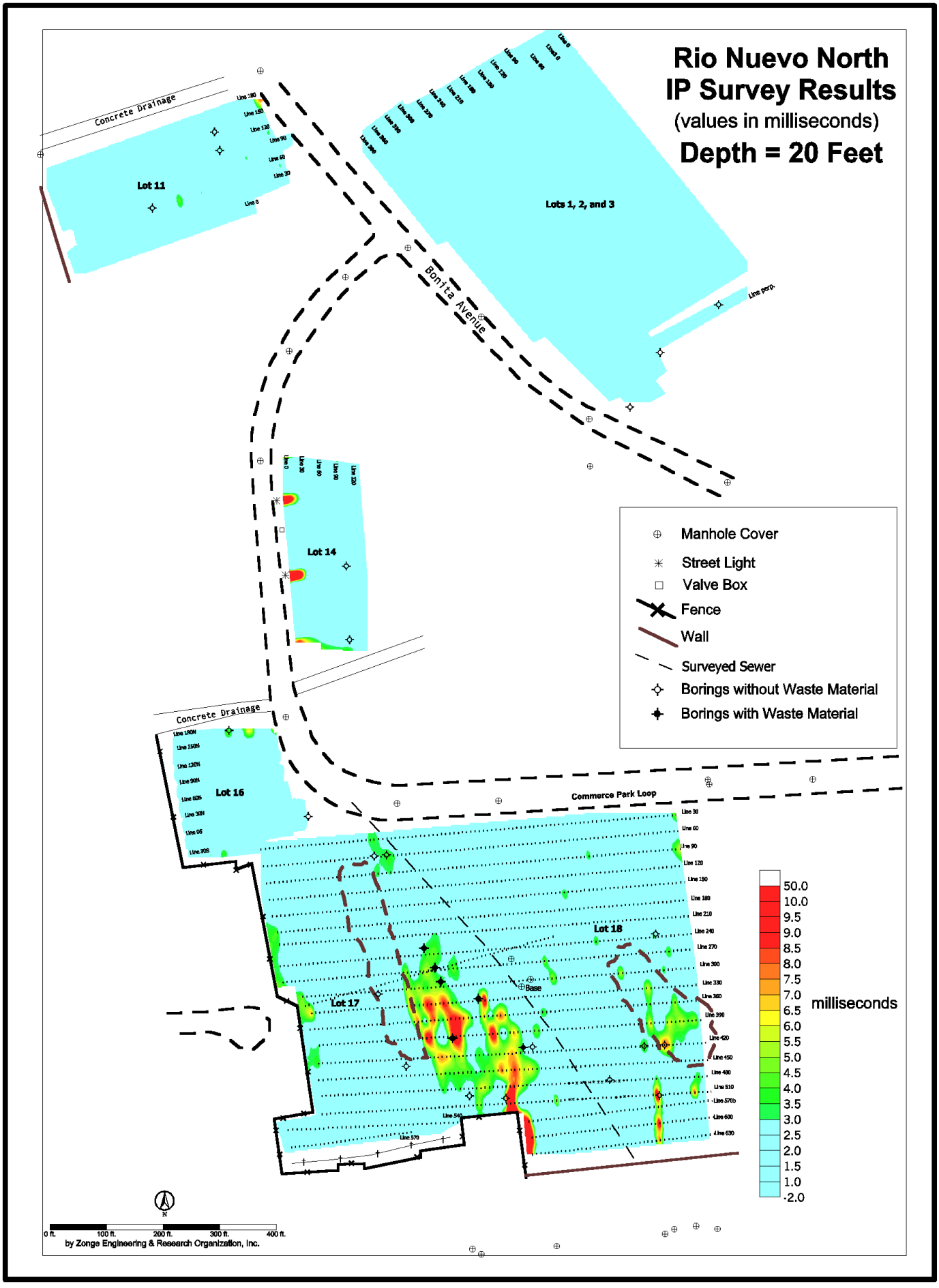

Rio Nuevo North
IP Survey Results
(values in milliseconds)
Depth = 10 Feet
Concrete Drainage
Lot 11
Lots 1, 2, and 3
Bonita Avenue
Lot 14
Concrete Drainage
Lot 16
Commerce Park Loop
Lot 18
Lot 17
Base
Manhole Cover
Street Light
Valve Box
Fence
Wall
Surveyed Sewer
Borings without Waste Material
Borings with Waste Material
50.0
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
-2.0
milliseconds
0 ft.
100 ft.
200 ft.
300 ft.
400 ft.
by Zonge Engineering & Research Organization, Inc.

Down in the Dumps Workshop Notes

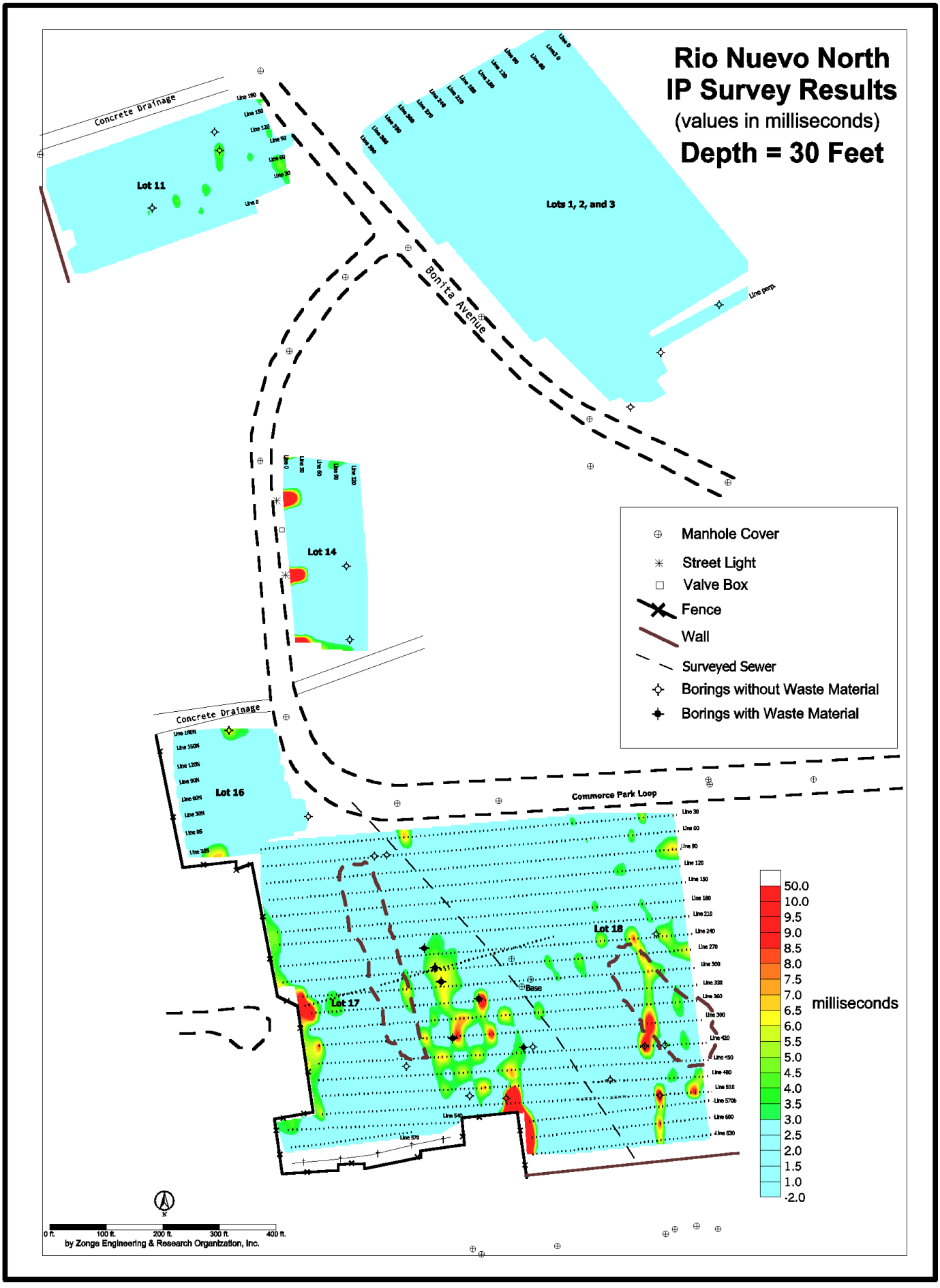
Due to the success of the test line drilling results, IP and resistivity data were collected on the entire 22 acre project area. Smooth-model inversion results of IP at 10 feet depth show only anoamlies in Lot 17 and Lot 18. A total of 3767 stations on 57 lines were acquired. With 12 n-spacings per diagonal, this resulted in a total of 45,204 data points.

Zonge Engineering


Rio Nuevo North
IP Survey Results
(values in milliseconds)
Depth = 20 Feet
Concrete Drainage
Lot 11
Lots 1, 2, and 3
Bonita Avenue
Lot 14
Concrete Drainage
Lot 16
Commerce Park Loop
Lot 18
Lot 17
Base
Manhole Cover
Street Light
Valve Box
Fence
Wall
Surveyed Sewer
Borings without Waste Material
Borings with Waste Material
50.0
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
-2.0
milliseconds
0 ft.
100 ft.
200 ft.
300 ft.
400 ft.
by Zonge Engineering & Research Organization, Inc.

Down in the Dumps Workshop Notes

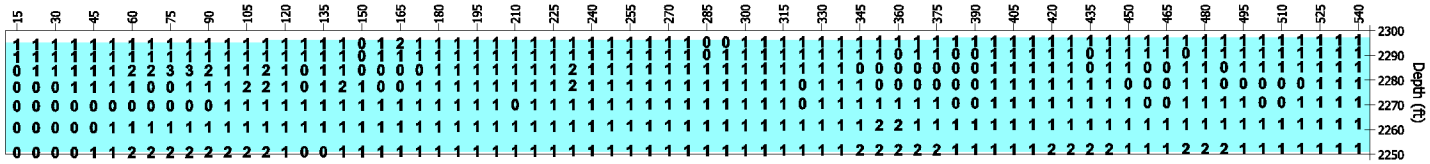
Smooth-model inversion results at 20 feet depth for the entire 22 acres at the Rio Nuevo North project area. IP highs caused by the street lights are evident on Lot 14, Line 0 as well as a small high on lot 16 that corresponds to a water main. Lots 1, 2, and 3 show no IP anomalies. Lot 17 and Lot 18 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.


Rio Nuevo North
IP Survey Results
(values in milliseconds)
Depth = 30 Feet
Concrete Drainage
Lot 11
Lots 1, 2, and 3
Bonita Avenue
Line perp.
Lot 14
Manhole Cover
Street Light
Valve Box
Fence
Wall
Surveyed Sewer
Borings without Waste Material
Borings with Waste Material
Concrete Drainage
Lot 16
Commerce Park Loop
Lot 18
Lot 17
Base
50.0
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
-2.0
milliseconds
0 ft.
100 ft.
200 ft.
300 ft.
400 ft.
by Zonge Engineering & Research Organization, Inc.

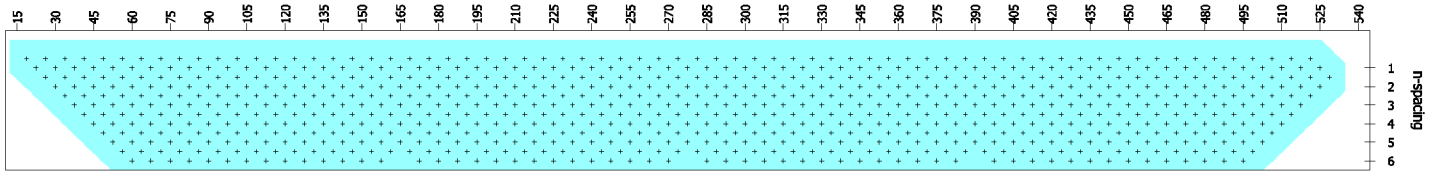
Smooth-model inversion results at 30 feet depth for the entire 22 acres at the Rio Nuevo North project area. IP highs caused by the street lights are evident on Lot 14 on Line 0, as well as a small high on lot 16 that corresponds to a water main and chain-linked fence. Lot 11 contains a few small areas 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.

Lots 1,2, and 3
Line 180

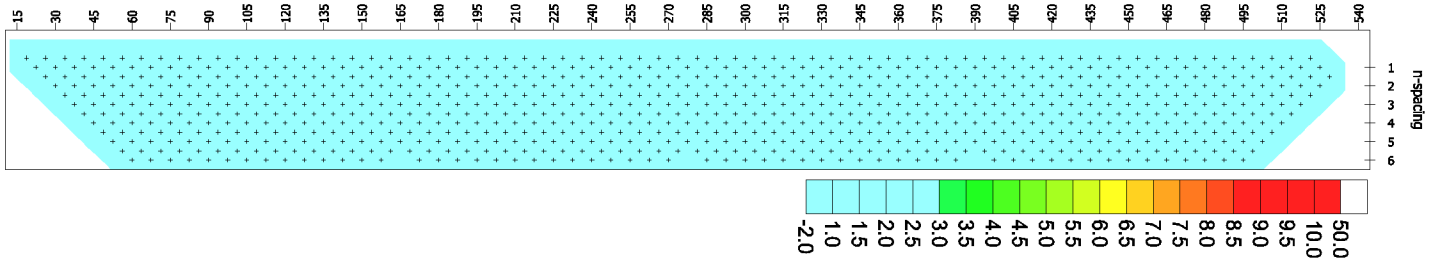
Smooth-Model IP (msec)



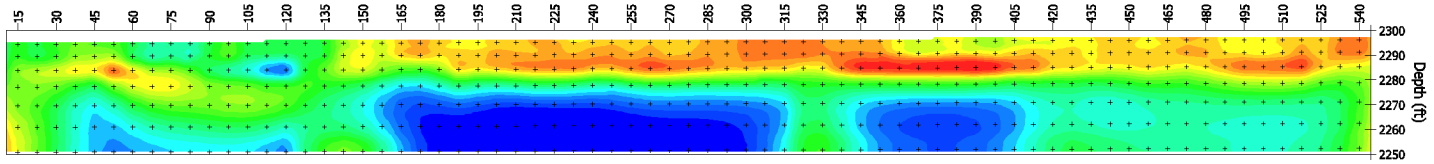
Calculated IP Response (msec)



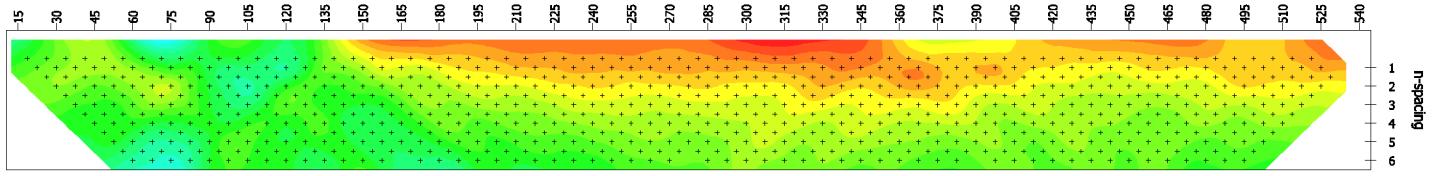
Observed IP Response (msec)



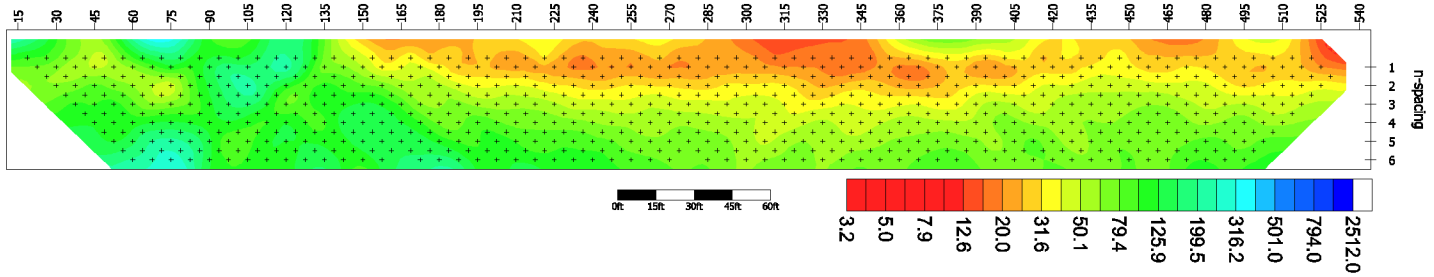
Smooth-Model Resistivity (ohm-m)



Calculated Apparent Resistivity (ohm-m)

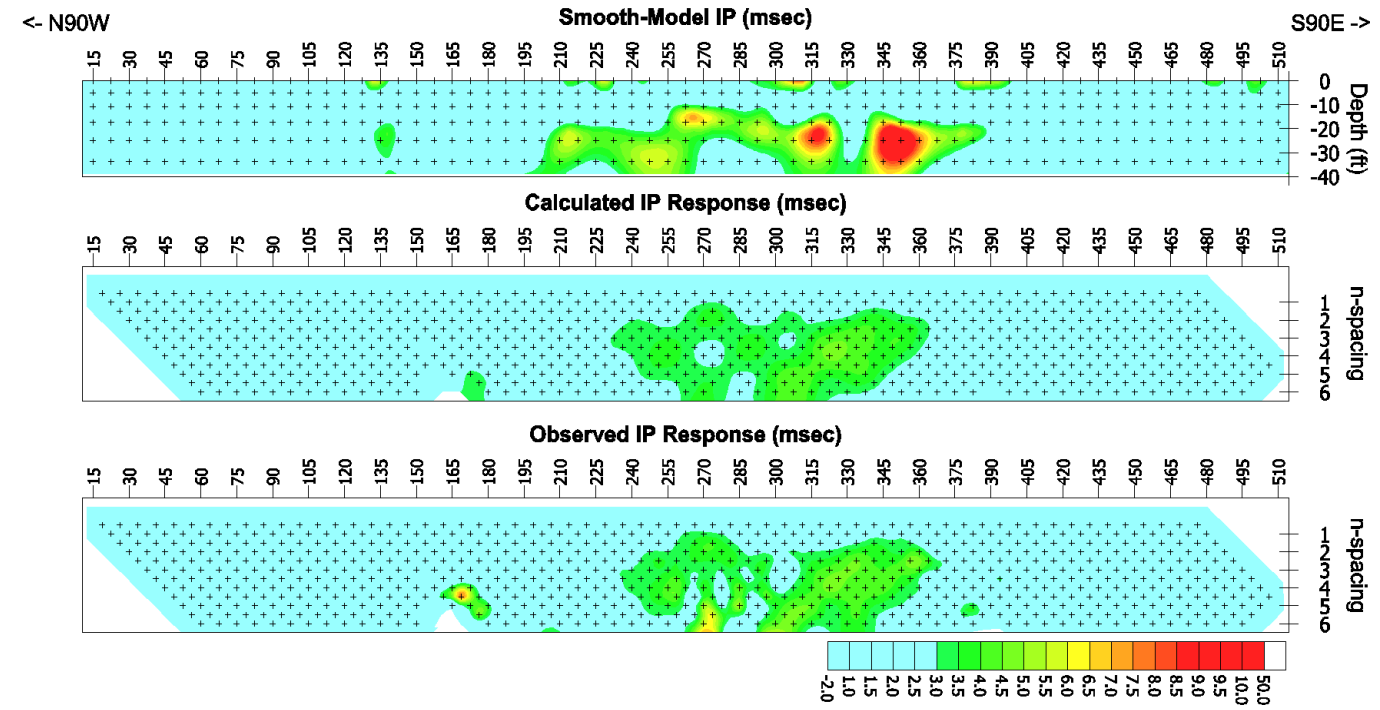


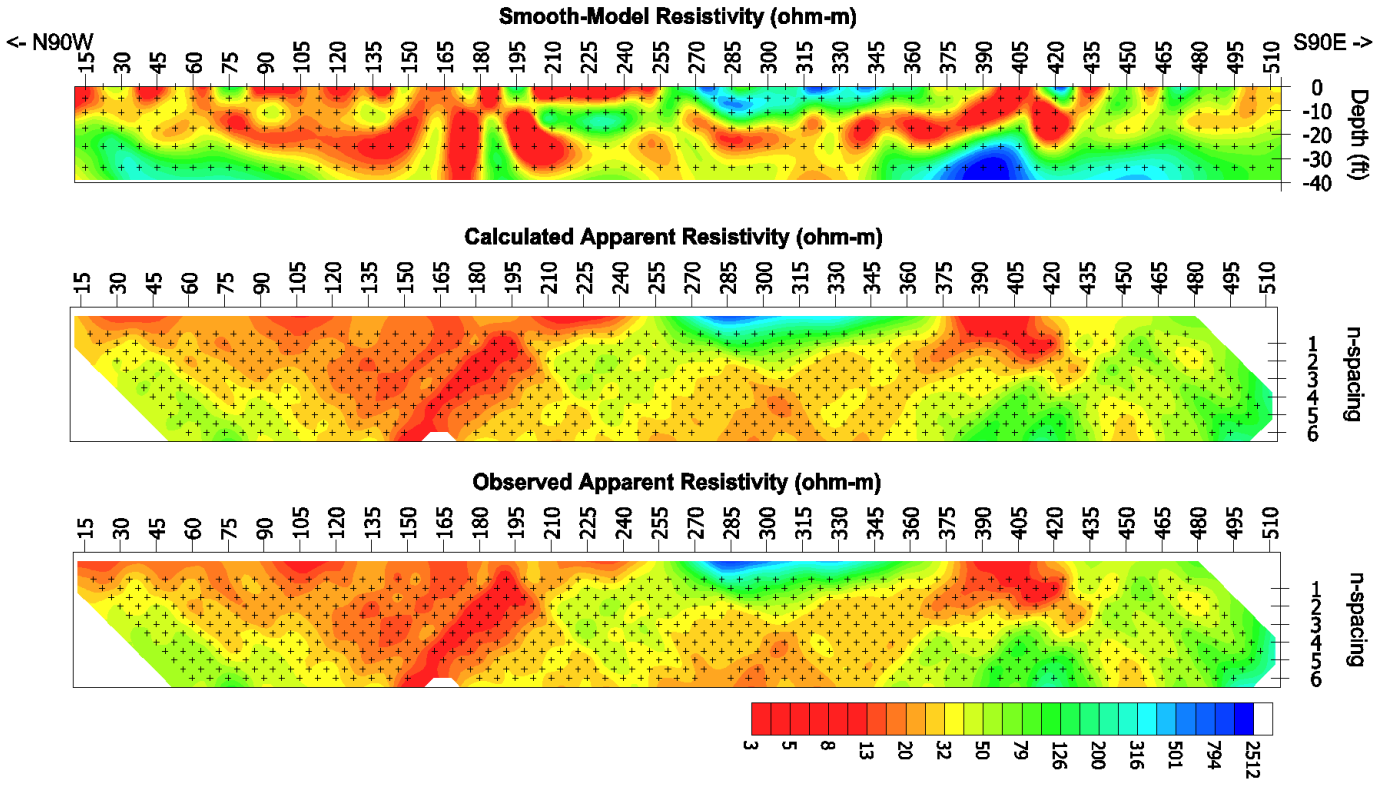
Observed Apparent Resistivity (ohm-m)



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.

Lots 17 and 18
Line 450

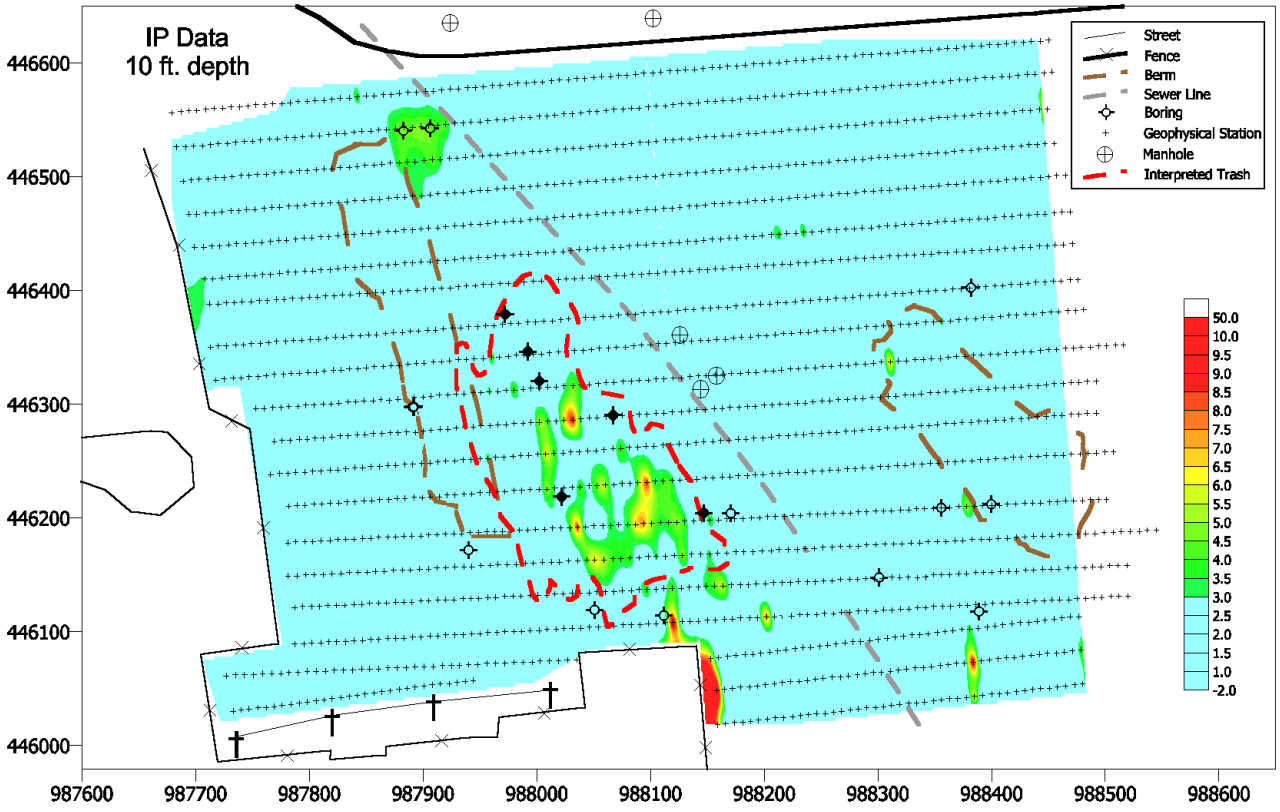


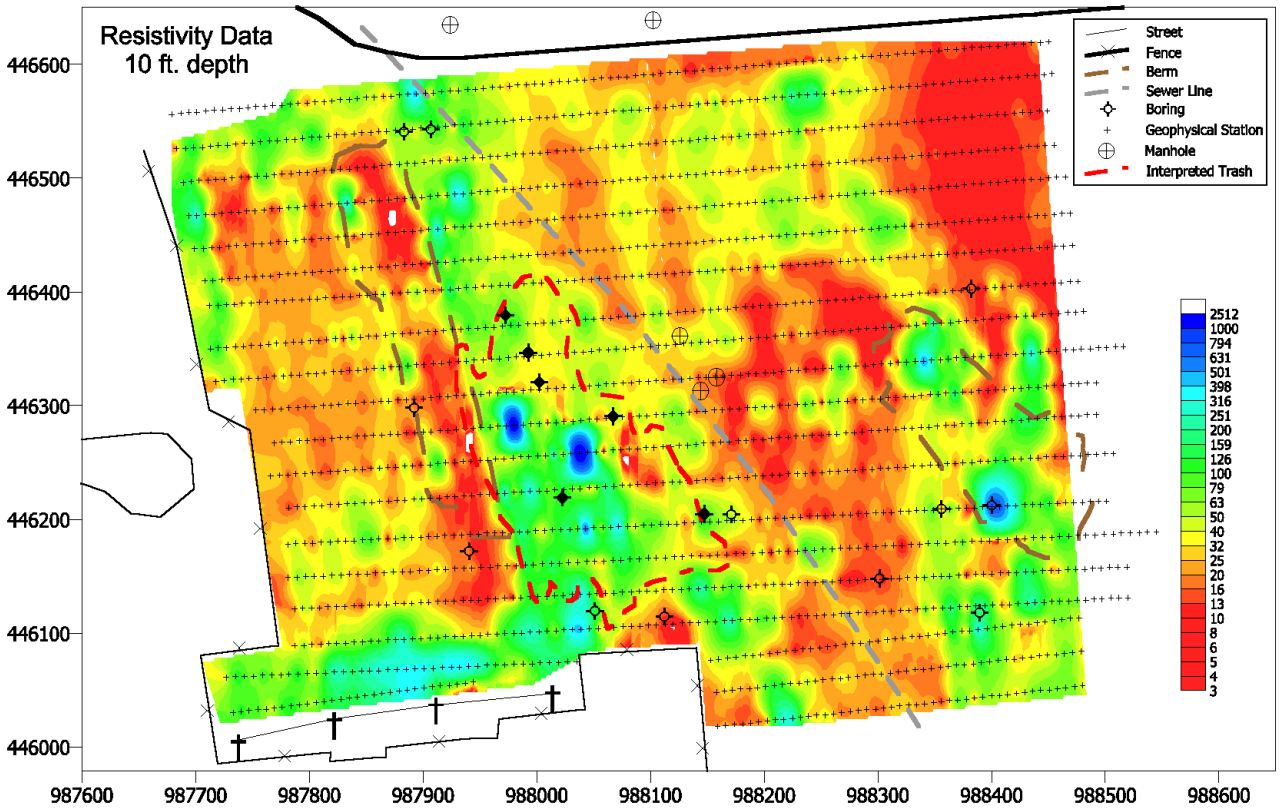


Down in the Dumps Workshop Notes

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.

Rio Nuevo North
Lot 17 and 18

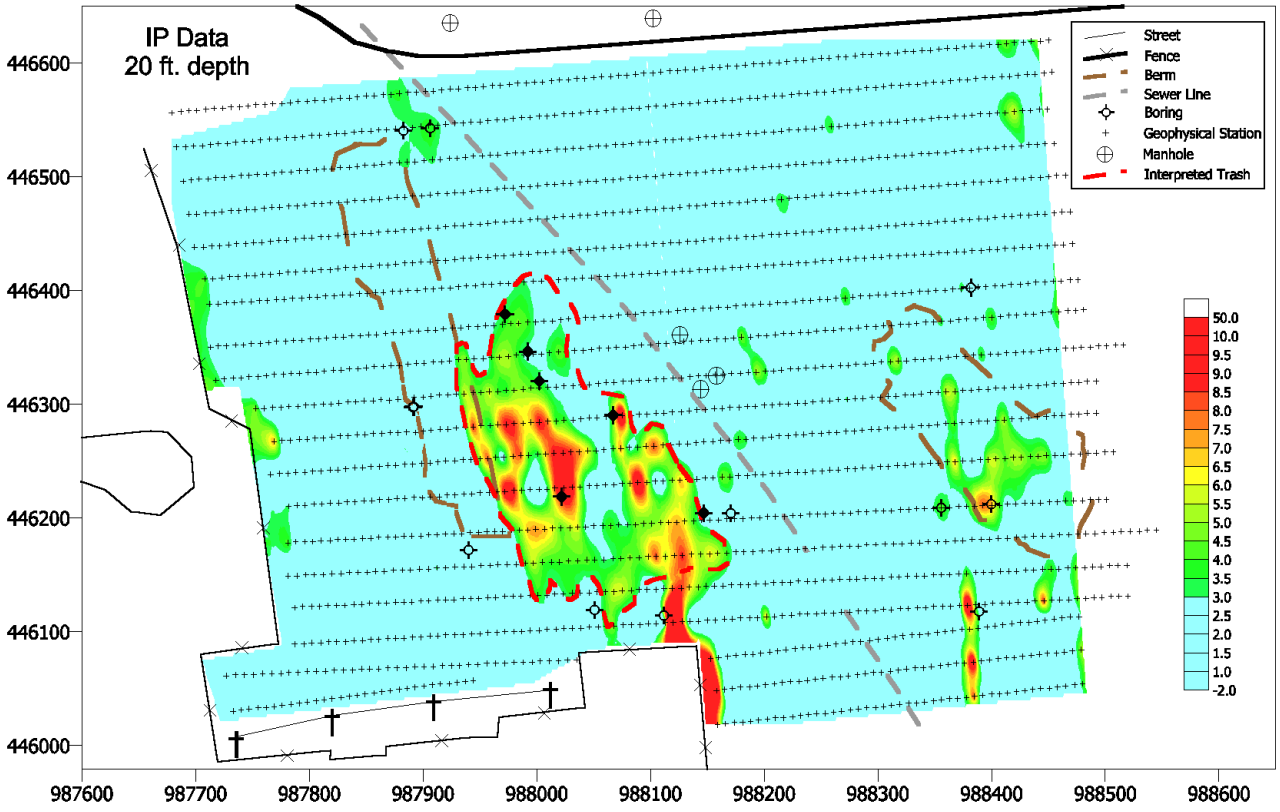


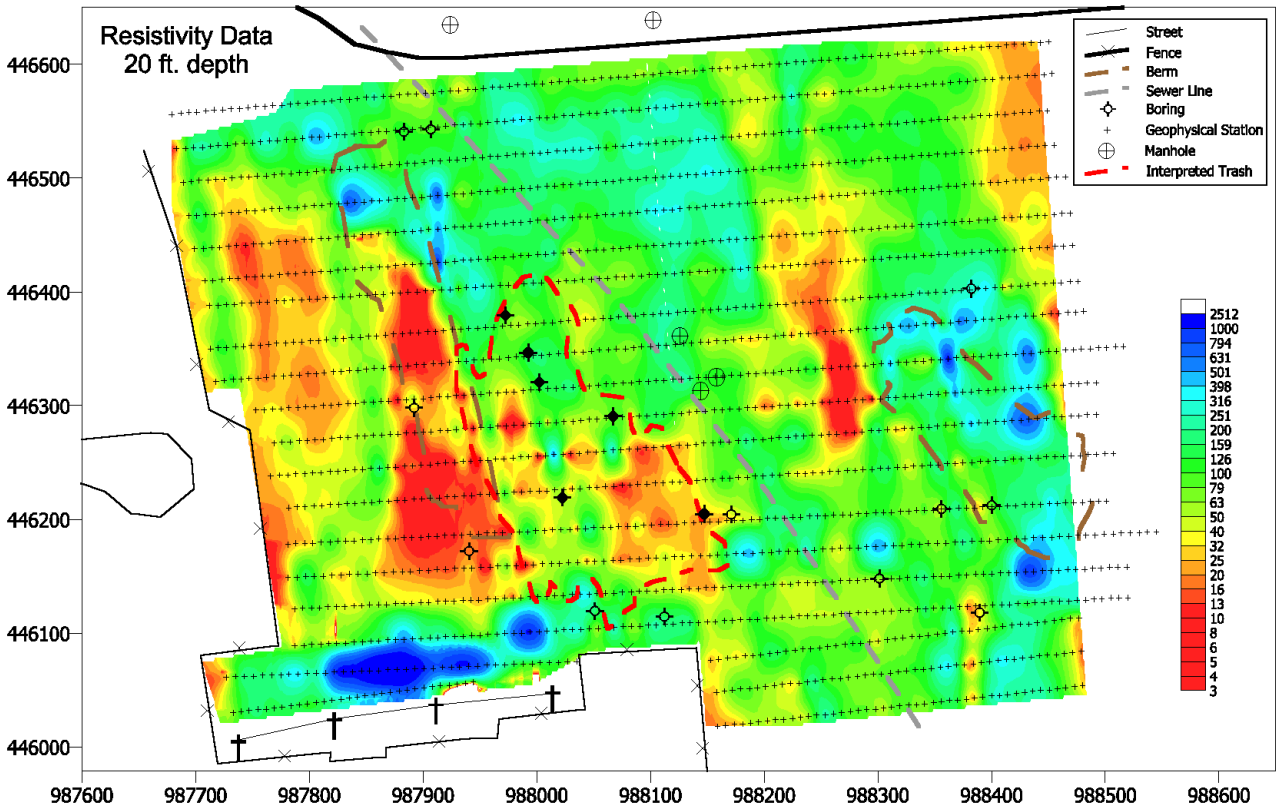


Down in the Dumps Workshop Notes

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 interpereted outline of the garbage.

Rio Nuevo North
Lot 17 and 18

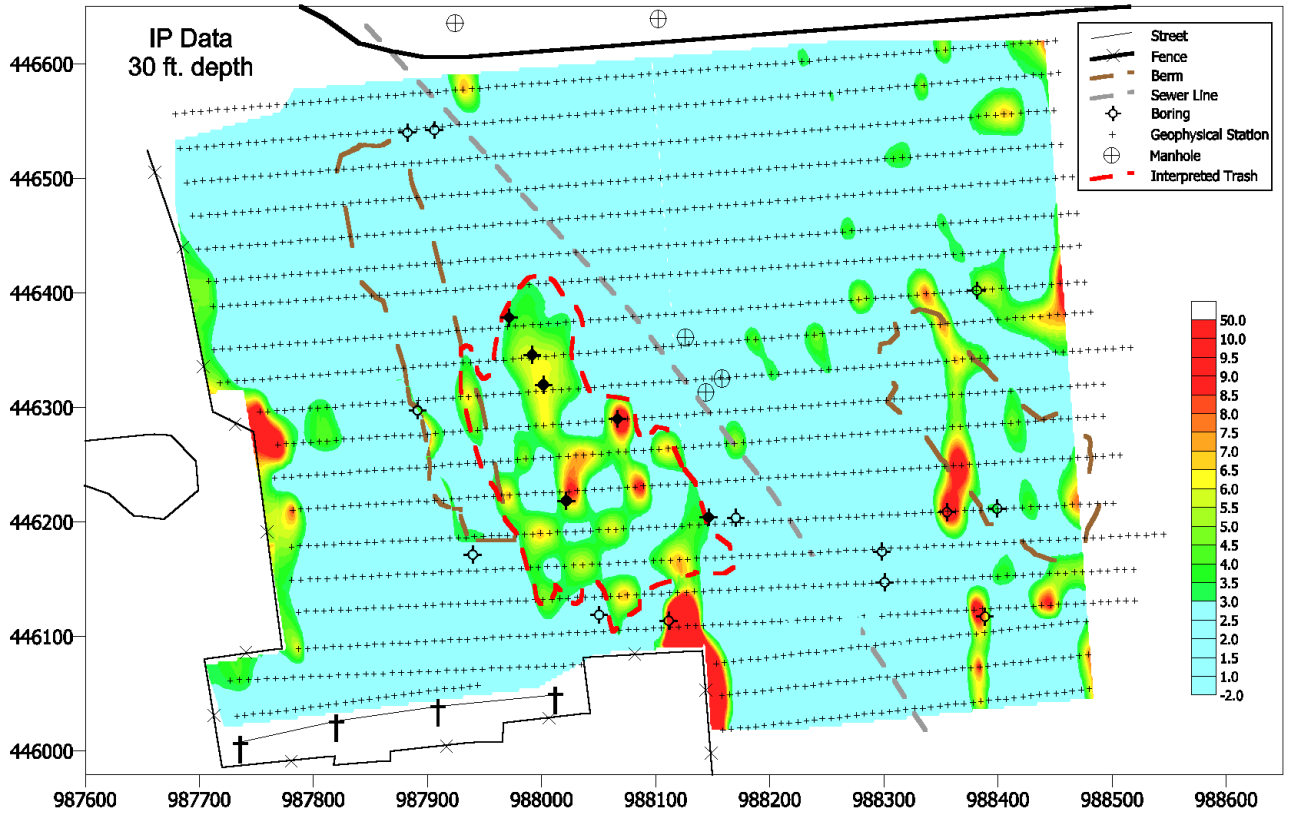


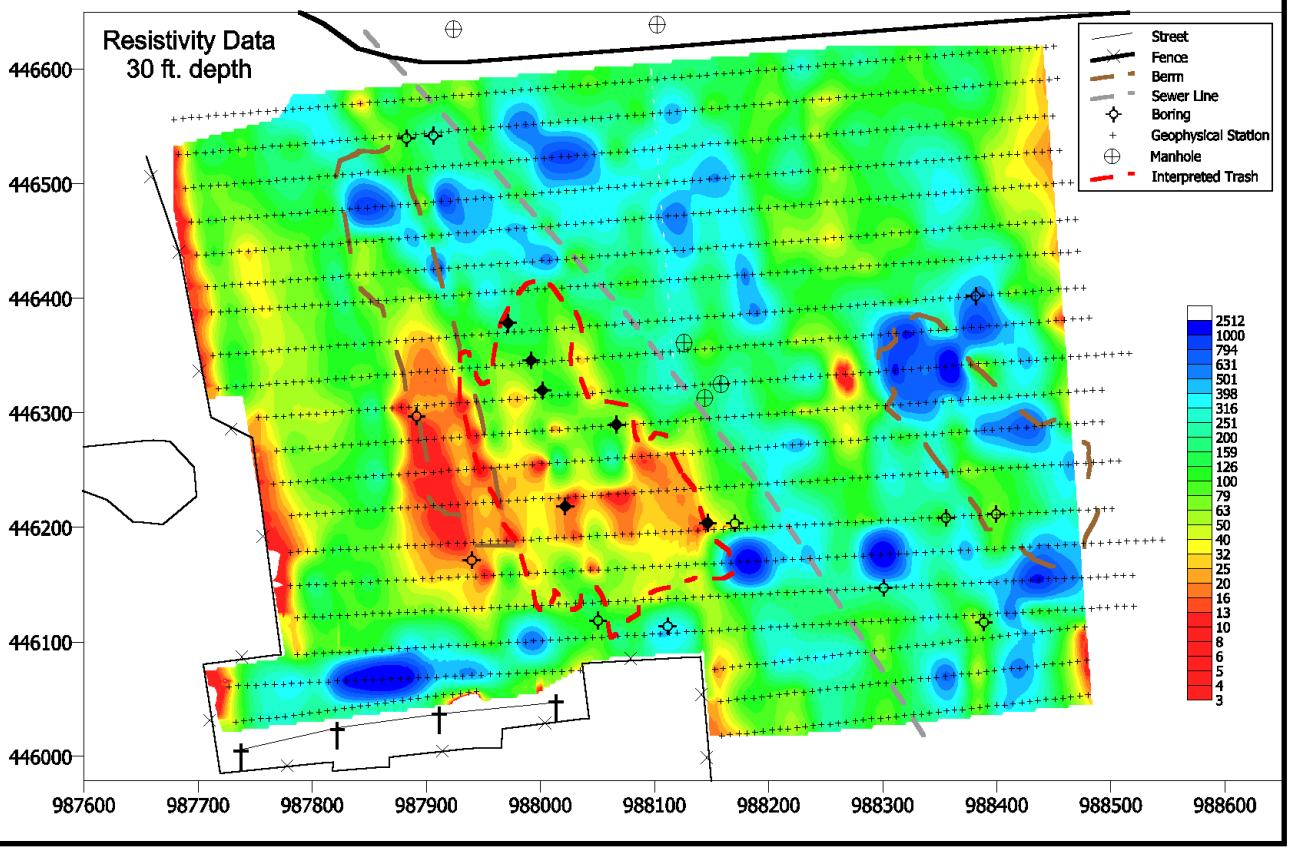


Down in the Dumps Workshop Notes

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 interpereted 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.

Rio Nuevo North
Lot 17 and 18





Down in the Dumps Workshop Notes

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.