

**HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CORROSION CONTROL TEST STATION
FIELD DATA SURVEY FORM**

Location: 49+84 Date Surveyed: 6/4/02
4 trees from Village Dr. Surveyed by: DD/MJ
 T/S #: 10 Contract #: L5267
 T/S Type: IR/Anode Pipe Size: 36"

Was Test Station located? YES/NO YES
 If NO, then how much time was spent locating? _____

TEST STATION CONDITION

Test Box : CP Flush Mount - Good
 Terminal Board : NM Series (7 terminal) - Good
 Wires : Good
 Other : _____

SURVEY DATA

| Test Wire Size/Description | Color | P/Cu-CuSO ₄ (V) | | P/Zn (V) | | Anode (mA) |
|-------------------------------|--------|----------------------------|--------|----------|-------|------------|
| | | "On" | "Off" | "On" | "Off" | |
| 1) #10 AWG | Red | -1.333 | -1.679 | 0.230 | 0.574 | 15 |
| 2) #10 AWG | Black | -1.329 | -1.279 | 0.230 | 0.177 | |
| 3) #12 AWG | Orange | -1.329 | -1.278 | 0.040 | 0.130 | |
| 4) #10 AWG | Green | -1.105 | -1.114 | | | |
| 5) | | | | | | |
| 6) #8 AWG | Orange | -1.330 | -1.270 | 0.227 | 0.167 | |
| 7) #10 AWG | Black | -1.332 | -1.268 | 0.229 | 0.163 | |
| | | | | | | |

P/Cu-CuSO₄ = Pipe to Copper - Copper Sulfate Reference Cell
 P/Zn = Pipe to Zinc Permanent Reference Cell
 "On" = Reading with Anode(s) connected
 "Off" = Reading with Anode(s) disconnected
 I Anode = Current output of anodes

| IR Drop Calibrations | I (Amps) | E (mV) |
|-------------------------|----------|----------|
| Initial | -0.017 | 95.000 |
| Final | 2.600 | -271.000 |
| Delta | 2.617 | -366.000 |

K = $\frac{? I \text{ (mA)}}{? E \text{ (mV)}}$

K = 0.007

| Between Terminals | Resistance (Ohms) |
|----------------------|----------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Direction; Orange to Black

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Additional Comments/Recommendations: _____



Figure 26 - Test Station #10, 4 trees before Village Drive



Figure 27 - Test Station #10, close-up