

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

Location: 00+90 Date Surveyed: 5/21/2007
NEAR PUMP STATION Surveyed by: MJ/DD
 T/S #: 12FM1 Contract #: 3696
 T/S Type: ST Pipe Size: 12"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: _____
 Terminal Board: GOOD
 Wires: GOOD
 Other: CONCRETE PAD CAVING IN

SURVEY DATA

| Test Wire Size/Description | Color | P/Cu-CuSO ₄ (mV) | | P/Zn (mV) | | Anode (Ma) |
|-------------------------------|-------|-----------------------------|-------|-----------|-------|------------|
| | | "On" | "Off" | "On" | "Off" | |
| 1. #10 AWG | BLUE | | -510 | | | |
| 2. #10 AWG | BLUE | | -511 | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |

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

TESTING THE EFFECTIVENESS OF INSULATING JOINTS

Groundbed: _____
 Connected to (B/W): _____

| | Current (A) | Voltage (mV) | Resistance (ohms) |
|--------|-------------|--------------|-------------------|
| ON: | | | |
| OFF: | | | |
| DELTA: | | | |

TESTING IR DROP

| IR Drop Calibrations | I (A) | E (mV) | K = $\frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$ | Between Terminals | Resistance (ohms) | |
|-------------------------|-------|--------|---|----------------------|----------------------|--|
| INITIAL: | | | | | | |
| FINAL: | | | | | | |
| DELTA: | | | | | | |

Direction: _____

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Comments/Recommendations: Repair concrete pad



Figure 18 – Location of Test Station 12FM1



Figure 19 - Test Station 12FM1 close-up