

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

Location: 31+90 Date Surveyed: 06/21/2007
 T/S #: 6 Surveyed by: AS/MJ
 T/S Type: ST w/Anode Contract #: 44-4227
 Pipe Size: 48"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: Above ground
 Terminal Board: 7 terminals in good condition
 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. #2 E. Anodes	Black	-1.052	-1.077	-0.013	-0.035	
2. #2 W. Anodes	Black	-1.042	-1.076	-0.020	-0.026	
3. #2 Pipe	White	-0.844	-0.841	-0.171	-0.218	
4. #8 Pipe	Black	-0.869	-0.836	-0.175	-0.215	35
5. #8 Pipe	White	-0.868	-0.839	-0.181	-0.220	
6. #8 Reference	Yellow	-1.048	-1.039			
7. #2 E. Anodes	Black	-1.034	-1.063	-0.014	-0.023	
8. #2 W. Anodes	Black	-1.044	-1.063	-0.013	-0.024	
9.						

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 (V)	Resistance (ohms)
ON:			
OFF:			
DELTA:			

TESTING IR DROP

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

REPAIRS MADE

Test Box: Removed Plastic Washers
 Terminal Board: _____
 Wires: _____
 Other: _____
 Comments/Recommendations: _____



Figure 240 - Location of Test Station 4227-6



Figure 241 - Test Station 4227-6 close-up