

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

Location: 5' S. of MD 108/ MD 32 Bridge Date Surveyed: 05/30/2007  
 T/S #: 01 Surveyed by: AS/MJ  
 T/S Type: IJ Contract #: 44-3231  
 Pipe Size: 12"  
 Was the T/S located? YES / NO YES

**TEST STATION CONDITION**

Test Box:	Good
Terminal Board:	Good
Wires:	Good
Other:	

**SURVEY DATA**

Test Wire Size/Description	Color	P/Cu-CuSO <sub>4</sub> (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #10 AWG	Black		-0.103			
2. #10 AWG	Black		-1.180		-1.077	
3. #10 AWG	Green		-0.745		-0.706	
4. #10 AWG	Black		-1.115		-1.077	
5. #10 AWG	Black		-0.655		-0.601	
6. #10 AWG	Green		-0.760		-0.707	
7.						
8.						

P/Cu-CuSO<sub>4</sub> = 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:	5.28	10.4	2
OFF:	0.000	-0.43	
DELTA:	5.28	10.8	

**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:	<u>IJ test indicated effective isolation of the two pipes.</u>



Figure 103 - Location of Test Station 3231-1



Figure 104 - Test Station 3231-1 close-up