

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

Location: 5' N. of MD 108/ MD 32 Bridge Date Surveyed: 05/30/2007
 T/S #: 02 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:	<u>Good</u>
Terminal Board:	<u>Good</u>
Wires:	<u>Good</u>
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	Black		-0.222			
2. #10 AWG	Black		-1.201		-1.002	
3. #10 AWG	Green		-0.616		-0.394	
4. #10 AWG	Black		-1.214		-1.001	
5. #10 AWG	Black		-0.572		-0.348	
6. #10 AWG	Green		-0.628		-0.403	
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 (V)	Resistance (ohms)
ON:	3.48	10.9	3
OFF:	0.000	-0.61	
DELTA:	3.48	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 105 - Location of Test Station 3231-2



Figure 106 - Test Station 3231-2 close-up