

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

Location: 00+05 Date Surveyed: 4/6/2005
N. of 175 Surveyed by: AC/MJ
 T/S #: 1 Contract #: 44-4153-D
 T/S Type: IJ w/ Anode Pipe Size: 30"

Was Test Station 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 ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1) #8 AWG	Black	-1.572	-1.668	-1.509	-1.656	1.4
2) #10 AWG	Blue	-1.570	-1.487	-1.509	-1.474	
3) #10 AWG	Blue	-1.571	-1.486	-1.509	-1.474	
4) #10 AWG	Yellow	-0.069	-0.015			
5) #10 AWG	White	-1.347	-1.279	-1.282	-1.268	
6) #8 AWG	Black	-1.573	-1.666	-1.510	-1.657	
7) #10 AWG	White	-1.348	-1.278	-1.284	-1.268	

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

TESTING THE EFFECTIVENESS OF INSULATING JOINTS / PIPE CASING

GROUND BED:

CONNECTED TO (B/W):

CURRENT	(A)	VOLTAGE	(V)	RESISTANCE (ohms):	2.63
ON:	3.9	ON:	-10.5		
OFF:	0	OFF:	-0.23		
DELTA:	3.9	DELTA:	-10.3		

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: _____
 Other: _____
 Additional Comments/Recommendations: IJ test indicates effective isolation of the two pipes.



Figure 59 - Location of Test Station 4153-1



Figure 60 - Test Station 4153-1 close-up