

Test Station 5

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CORROSION CONTROL TEST STATION FIELD DATA SURVEY FORM						
Location: <u>(25+50)</u>		Date Surveyed: <u>10/10/2005</u>				
T/S #: <u>5</u>		Surveyed by: <u>MJ/CS</u>				
T/S Type: <u>IJ/Anode</u>		Contract #: <u>44-4227</u>				
		Pipe Size: <u>48"</u>				
Was Test Station located? YES/NO <u>YES</u>						
TEST STATION CONDITION						
Test Box :		<u>Above ground - metal</u>				
Terminal Board :		<u>7 terminal - 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"	
A) #2 W. Anodes	Black	-1.410	-1.510	-0.280	-0.397	63
B) #2 E. Anodes	Black	-1.406	-1.305	-0.274	-0.178	48
C) #2 S. IJ	White	-0.992	-1.015	0.140	-0.112	
D) #8 S. IJ	Black	-1.090	-0.577	0.042	0.528	
E) #8 Reference	Black	-1.132	-1.122			
F) #8 N. IJ	White	-0.991	-1.014	0.142	0.111	
G) #2 E. Anodes	Black	-1.133	-1.306	-0.001	0.181	35
H) #2 W. Anodes	Black	-1.131	-1.557	0.000	-0.441	30
I) #2 N. IJ	Black	-1.103	-0.575	0.028	0.531	
P/Cu-CuSO ₄ = 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						
CURRENT (A)		VOLTAGE (V)		RESISTANCE (ohms): 8.59		
ON: 1.55		ON: 13.31				
OFF: 0.00		OFF: 0.00				
DELTA: 1.55		DELTA: 13.31				
REPAIRS MADE						
Test Box: _____						
Terminal Board: _____						
Wires: _____						
Other: _____						
Additional Comments/Recommendations: _____						



Figure 10 – Test Station 5