HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

| CORROSION CONTROL TEST STATION FIELD DATA SURVEY FORM | | | | | | | | |
|---|---|------------------------------------|--------|-----------------------------|----------|------------------|------------|--|
| Location: | 41+38 Bridge, Old Columbia Ro | | | Date Surveyed: Surveyed by: | | 3/18/2005 | | |
| T/S #: | 05 | iu Columbia Roau | | Contract #: | | AC/MJ 44-3868 | | |
| T/S Type: | IJ w/ Anodes | | | Pipe Size: | | 16" | | |
| 1/3 Type. | • | | | | | 10 | | |
| Was Test Station located? YES/NO Yes | | | | | | | | |
| TEST STATION CONDITION | | | | | | | | |
| Test Box : Good | | | | | | | | |
| Terminal Board : | | Good | | | | | | |
| Wires : | | Good | | | | | | |
| Other : | | | | | | | | |
| SURVEY DATA | | | | | | | | |
| Test Wire | | P/Cu-CuSO ₄ (V) P/ | | | | n (V) | | |
| Size/Description | Color | "On" | "Off" | | "On" | "Off" | Anode (mA) | |
| 1) #10 | Blue | -2.020 | -2.130 | | -1.811 | -1.914 | 8.0 | |
| 2) #10 | Blue | -2.030 | -2.150 | | -1.822 | -1.912 | | |
| 3) #6 | Black | -2.020 | -1.500 | | -1.805 | -1.239 | | |
| 4) #8 | Black | -0.240 | -0.240 | | | | | |
| 5) #10 | Blk/Wht | -1.430 | -1.470 | | -1.280 | -1.246 | | |
| 6) | | | | | | | | |
| 7) | | | | | | | | |
| | | | | | | | | |
| P/Cu-CuSO ₄ | Cu-CuSO ₄ = Pipe to Copper - Copper Sulfate Reference Cell | | | | | | | |
| P/Zn | = Pipe to Zinc Permanent Reference Cell | | | | | | | |
| "On" | | ading with Anode(s) connected | | | | | | |
| "Off" | | Reading with Anode(s) disconnected | | | | | | |
| I Anode | = Current output of anodes | | | | | | | |
| TESTING THE EFFECTIVENESS OF INSULATING JOINTS / PIPE CASING | | | | | | | | |
| GROUNDBED: Anode | | | | | | | | |
| CONNECTED TO | (B/W): | | | | | | | |
| CURRENT | (A) | VOLTAGE | (V) | | RESISTAN | NCE (ohms): | 5.78 | |
| ON: | 1.88 | ON: | -11.5 | | | | | |
| OFF: | 0 | OFF: | -0.65 | | | | | |
| DELTA: | 1.88 | DELTA: | -10.9 | | | | | |
| REPAIRS MADE | | | | | | | | |
| Test Box: | | | | | | | | |
| Terminal Board: | | | | | | | | |
| Wires: | | | | | | | | |
| Other: | | | | | | | | |
| Additional Comments/Recommendations: IJ test confirms isolation | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



Figure 96 – Location of Test Station 5 - Old Columbia Road and Middle Patuxent River



Figure 97 – Test Station 5 close up