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

Cocation:   Alpha Ridge Landfill	T/S #: 02 T/S Type: S		ndfill		•		6/2007		
Surveyed by:   AS/MJ   AS/MJ	T/S #: 02 T/S Type: S				•		07/06/2007		
T/S #:	T/S Type: S	1				AS/M	AS/MJ		
T/S Type:   ST w/Anode   Pipe Size:   4" and 6"	T/S Type: S								
Test Box:						4" an	4" and 6"		
Test Box:	1140 1110 170 100								
Test Box: Terminal Board: Wires: Other:   SURVEY DATA									
Survey Data									
SURVEY DATA				,					
SURVEY DATA									
Test Wire   Size/Description   Color   P/Cu-CuSO4 (V)   P/Zn (V)   Anode (mA)									
Test Wire   Size/Description   Color   P/Cu-CuSO <sub>4</sub> (V)   P/Zn (V)   Anode (mA)	Other:								
Size/Description   Color   "On""Off"   "On""Off"   (mA)     1. #10 AWG   Red   -0.602   -1.675   0.512   -0.567   29.5     2. #10 AWG   White   -0.540   0.576     3. #10 AWG   Black   -0.592   0.521     4. #10 AWG   White   -0.601   -0.537   0.512   0.576     5. Bolt                   6. #10 AWG   Green   -1.102   -1.105       7. #10 AWG   Black   -0.604   -0.587   0.511   0.649     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:   Current (A)   Voltage (V)   Resistance (ohms)     ON:				SURVE	Y DATA				
Size/Description   Color   "On""Off"   "On""Off"   (mA)     1. #10 AWG   Red   -0.602   -1.675   0.512   -0.567   29.5     2. #10 AWG   White   -0.540   0.576     3. #10 AWG   Black   -0.592   0.521     4. #10 AWG   White   -0.601   -0.537   0.512   0.576     5. Bolt                   6. #10 AWG   Green   -1.102   -1.105       7. #10 AWG   Black   -0.604   -0.587   0.511   0.649     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:   Current (A)   Voltage (V)   Resistance (ohms)     ON:	Test Wir	е	P/	Cu-CuS	6O <sub>4</sub> (V)	P	/Zn (V)	Anode	
1. #10 AWG	Size/Descrip	tion (						(mA)	
3. #10 AWG			ed -(	0.602	-1.675	0.51	2 -0.567		
3. #10 AWG	2. #10 AW	G W	/hite		-0.540		0.576		
4. #10 AWG	3. #10 AW(	G BI	lack		-0.592				
S. Bolt				0.601		0.51			
Core	5. Bolt								
7. #10 AWG		3 G	reen -	1.102	-1.105				
P/Cu-CuSO4						0.51	1 0.649		
P/Cu-CuSO <sub>4</sub>		-							
P/Zn	D/Cu Cu	so -	- Pino to Conn	or Copp	or Sulfato Do	foronco El	octrodo	•	
"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:       OFF:       DELTA:       Between Resistance         TESTING IR DROP       Terminals (ohms)         IR Drop Calibrations I (A)       E (mV)       K = ΔI (mA)       Terminals (ohms)         INITIAL:       ΔE (mV)       Terminals (ohms)						ierence En	ectione		
"Off" = Reading with Anode(s) disconnected Anode           TESTING THE EFFECTIVENESS OF INSULATING JOINTS           Groundbed: Connected to (B/W):           Current (A)         Voltage (V)         Resistance (ohms)           ON: OFF: DELTA:         TESTING IR DROP           IR Drop Calibrations I (A)         E (mV)         K = ΔI (mA)         Between Terminals (ohms)         Resistance (ohms)           INITIAL:         ΔE (mV)         Terminals (ohms)         Cohms)									
Anode	9					ad			
TESTING THE EFFECTIVENESS OF INSULATING JOINTS						eu			
Connected to (B/W):	• • • • • • • • • • • • • • • • • • • •								
Connected to (B/W):   Current (A)   Voltage (V)   Resistance (ohms)									
Current (A)   Voltage (V)   Resistance (ohms)									
ON:         OFF:           DELTA:         TESTING IR DROP           IR Drop Calibrations         I (A)         E (mV)         K = ΔI (mA)         Between Terminals (ohms)         Resistance (ohms)           INITIAL:         ΔE (mV)         ΔE (mV)         ————————————————————————————————————									
OFF:         DELTA:           TESTING IR DROP           IR Drop Calibrations         I (A)         E (mV)         K = ΔI (mA)         Between Terminals (ohms)         Resistance Terminals (ohms)           INITIAL:         ΔE (mV)         ΔE (mV)         Terminals (ohms)	` '		: (A)	Voltage (V)			Resistance (onms)		
DELTA:									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	DELTA:								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			T	ESTING	IR DROP		<u>-</u>		
INITIAL: $\Delta E (mV)$ FINAL:									
FINAL:		I (A)	E (mV)				Terminals	(ohms)	
	INITIAL:				ΔΙ	E (mV)			
DELTA: Direction:	FINAL:								
	DELTA:			Direc	ction:				
REPAIRS MADE									
Test Box:									
Terminal Board:									
Terminal Board: Wires:									
Wires:									



Figure 223 - Location of Test Station 2 at Alpha Ridge Landfill



Figure 224 - Location of Test Station 2 at Alpha Ridge Landfill close-up