

TO: SHIRLEY SMITH  
651-297-8683

FROM: DAVE OLSON  
763 245 9579  
OLSONS TRUCK STOP

11 TOTAL PAGES

I AM SENDING THE  
CATHODIC PROTECTION RESULTS  
AND THE LINE TESTING RESULTS

WE ACCEPTED A BID FROM  
WESTSIDE EQUIPMENT TO INSTALL  
ALL NEW LINE LEAK DETECTORS  
BECAUSE THEY FAILED. WE ALSO  
ARE HAVING A VEEDERLOOT SYSTEM  
INSTALLED THAT WILL DO  
TANK TESTING.

ALL THE WORK SHOULD BE  
COMPLETED WITHIN THE NEXT TWO  
WEEKS.

I WILL SEND LEAK DETECTOR  
RESULTS UPON COMPLETION

DAVE OLSON  
763 245 9579



# Minnesota Pollution Control Agency Galvanic (Sacrificial Anode) Cathodic Protection System Evaluation

- ☐ This form must be utilized to evaluate underground storage tank (UST) cathodic protection systems in the State of Minnesota
- ☐ At least two test points per tank and piping run must be utilized
- ☐ A site drawing showing reference cell placement and tank and piping locations must be provided

A copy of this form must be sent to: MPCA/Joann Henry, 520 Lafayette Blvd. N, St. Paul, MN 55155

UST Owner		UST Facility	
Name		Name	Asox Truck Stop
Address	Some	Address	1401 748th NW
City		City	Clearwater MN
Telephone		Telephone	763-8781555

CP Tester		CP Tester's Qualifications	
Tester's Name	Art Stark	STI Certification Number	CP-SP-11-04
Company Name	Pump & Meter Services	NACE Certification Number	
Address	11303 Exterior Blvd	Other (explain)	
City	Hopkins		
Telephone	952-933-4800		

**Reason Survey was Conducted**

Routine-3 year     Routine-within 6 months of installation     Re-Survey after repair/modification

Date next cathodic protection survey must be conducted by   /  /   (required within 6 mo of install & every 3 years thereafter)

**Cathodic Protection Tester's Evaluation**

Check all that apply to this evaluation:

**850 ON** Structure to soil potential more negative than -850 mV with respect to CuCuSO4 reference cell and protective current applied (applies to any galvanically protected structure)

**850 OFF** Structure to soil potential more negative than -850 mV with protective current interrupted (instant off)

**100 mV Polarization** Structure tested exhibits at least 100 mV cathodic polarization (applicable for systems where anodes can be temporarily disconnected)

**PASS** All protected structures at this facility pass the cathodic protection survey and cathodic protection is adequate to protect the UST system(s)

**FAIL** One or more protected structures at this facility fail the cathodic protection survey and cathodic protection is inadequate to protect the UST system(s) **See results on back**

CP Tester's Signature \_\_\_\_\_ Date CP Survey Performed   /  /  

**Action Required as a Result of this Evaluation**

**NONE** Cathodic protection is adequate. No further action is necessary at this time. Test again by no later than   /  /  

**RETEST** Cathodic protection may not be adequate. Retest during the next 60 days to determine if passing results can be achieved.

**REPAIR & RETEST** Cathodic protection is not adequate. Repair/modification is necessary as soon as possible but within 60 days.

**Tank Cathodic Protection Survey Information and Results**

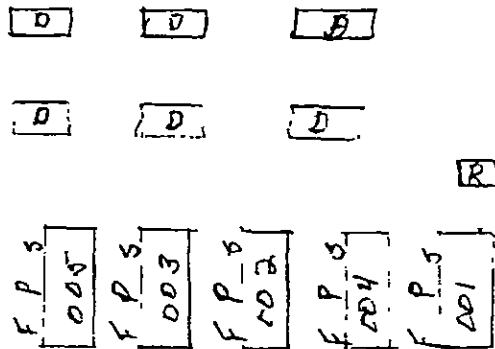
Tank Number	Product	Capacity	Structure Test Location #1	Fixed Remote Voltage On / Off	Structure Test Location #2	Fixed Remote Voltage On / Off	Isolated/Continuous/Inconclusive
ex C01	premium	6000	tank bottom	-1011/-981	tank fill riser	-1021/-1005	Isolated
001	URGENT	9944	Bottom	-2.76/-1.222	Riser	-912	Isolated
002	PREMIUM	9444	Bottom	-2.69/-1.210	Riser	-916	IC
003	NOI PINS	2544	Bottom	-2.76/-1.211	Riser	-915	IC
004	URGENT	25000	Bottom	-2.71/-1.222	Riser	-913	IC
005	KNIEBO	21500	Bottom	-2.71/-1.225	Riser	-919	IC

**Piping Cathodic Protection Survey Information and Results**

Tank Number	Product	Piping Type	Structure Test Location #1	Fixed Remote Voltage mV On / Off	Structure Test Location #2	Fixed Remote Voltage mV On / Off	Isolated/Continuous/Inconclusive
ex 001	premium	coated steel	submersible	-1001/-1015	dispenser #2	-947/-934	Isolated

Site Diagram (show all tank, piping and dispenser locations and locations of test readings and reference cell placements using specific numbering/test, ie. Tank 001/Test 1 or 001/T-1):

Star



F	Fill
P	Prob
S	Sub
D	Disp
R	Rectifier



Pump and Meter Service, Inc

SERVICE • SALES • INSTALLATION

11303 EXCELSIOR BLVD  
(612) 933 4800

HOPKINS MN 55312  
(612) 939 0418

LOCATION

Olson Truck Stop  
1401 148<sup>th</sup>  
Clearwater, MN

DATE

7-26-05

W O #

198561

Precision Line Test  
Horner EZ Check Tester  
WI Approval 1920089-U

Product ID:

Diesel # Sump #2

Type of System: Submerged/Suction

Line Construction

Steel

Tank Construction \_\_\_\_\_

Applied Pressure:

50 psi

Tank Capacity \_\_\_\_\_

M/T	TIME	DATA	+/-	GPI	RES.	GPH
<u>M</u>	<u>6:00</u>	<u>60</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>M</u>	<u>6:15</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>M</u>	<u>6:30</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>6:45</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>7:00</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>7:15</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>7:30</u>	<u>60</u>	<u>∅</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>.0037</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>.0037</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>.0037</u>	<u>—</u>	<u>—</u>

FINAL RESULT: ∅ GPH

CRITERIA: Pass/Fail

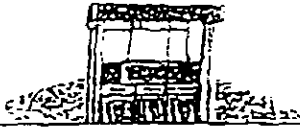
I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detector prescribed by the Federal EPA and WI Administrative Code ILHR 10

Technician:

Brent Brent

Certification #

849176



Pump and Meter Service, Inc

SERVICE - SALES - INSTALLATION

1.365 EXCELSIOR BLVD  
612 933 4800

HOPKINS MN 55303  
FAX 612 939 0415

LOCATION: Olson Truck Stop  
1401 148<sup>th</sup>  
Clearwater, MN

DATE 7-26-05

W.O.# 198561

Precision Line Test  
Korner EZ Check Tester  
WI Approval 1920089-U

Product ID: Diesel #2 Sump #1

Type of System: Submerged/Suction

Line Construction Steel

Tank Construction \_\_\_\_\_

Applied Pressure 50 psi

Tank Capacity \_\_\_\_\_

M/T	TIME	DATA	+/-	CPL	RES.	GPH
M	75	6:00	—	.0037	—	—
M	75	6:15	∅	.0037	∅	∅
M	75	6:30	∅	.0037	∅	∅
T	75	6:45	∅	.0037	∅	∅
T	75	7:00	∅	.0037	—	—
T	75	7:15	∅	.0037	—	—
T	75	7:30	∅	.0037	—	—
—	—	—	—	.0037	—	—
—	—	—	—	.0037	—	—
—	—	—	—	.0037	—	—

FINAL RESULT: ∅ GPH

CRITERIA: Pass/Fail

I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detection prescribed by the Federal EPA and WI Administrative Code ILNR 10

Technician: Burt Burt

Certification: 849176



Pump and Meter Service, Inc

SERVICES - SALES - INSTALLATION

1130 EXCELSIOR BLVD  
(612) 933 4800

HOPKINS MN 55303  
FAX (612) 933 0415

LOCATION Olson Truck Stop  
1401 148th  
Clearwater, MN

DATE 7-20-05

W.O # 198561

Precision Line Test  
Korner EZ Check Tester  
WI Approval #920089-U

Product ID: Diesel premium  
Line Construction: Steel  
Applied Pressure: 50 psi

Type of System: Submerged/Suction  
Tank Construction: \_\_\_\_\_  
Tank Capacity: \_\_\_\_\_

M/S	TIME	DATA	+/-	GPL	RES	GPH
<u>M</u>	<u>3:15</u>	<u>78</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>M</u>	<u>3:30</u>	<u>77</u>	<u>-1</u>	<u>.0037</u>	<u>10037</u>	<u>—</u>
<u>M</u>	<u>3:45</u>	<u>77</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>M</u>	<u>4:00</u>	<u>77</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>4:15</u>	<u>77</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>4:30</u>	<u>77</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>4:45</u>	<u>77</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>5:00</u>	<u>75</u>	<u>-2</u>	<u>.0037</u>	<u>10077</u>	<u>—</u>
<u>T</u>	<u>5:15</u>	<u>75</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>5:30</u>	<u>75</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>

FINAL RESULT: ∅ GPH

CRITERIA: Pass/Fail

I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detection prescribed by the Federal EPA and WI Administrative Code ILHR 10

Technician: Burt Burt

Certification # 849176



Pump and Meter Service, Inc

SERVICE • SALES • INSTALLATION

11303 EXCELSIOR BLVD  
(612) 933 4800

HOPKINS MN 55303  
FAX (612) 939 0415

LOCATION Olson Truck Stop  
1401 148th  
Clearwater, MN

DATE 7-20-05  
W O # 198561

Precision Line Test  
Horner EZ Check Tester  
WI Approval 1920089-U

Product ID: Premium  
Line Construction: steel  
Applied Pressure 50 psi

Type of System: Submerged/Suction  
Tank Construction \_\_\_\_\_  
Tank Capacity: \_\_\_\_\_

M/T	TIME	DATA	+/-	GPH	RES	GPH
<u>M</u>	<u>1:00</u>	<u>35</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>M</u>	<u>1:15</u>	<u>35</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>M</u>	<u>1:30</u>	<u>35</u>	<u>∅</u>	<u>.0037</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>1:45</u>	<u>35</u>	<u>∅</u>	<u>.0039</u>	<u>∅</u>	<u>∅</u>
<u>T</u>	<u>2:00</u>	<u>35</u>	<u>∅</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>2:15</u>	<u>35</u>	<u>∅</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>2:30</u>	<u>35</u>	<u>∅</u>	<u>.0039</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0039</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0039</u>	<u>—</u>	<u>—</u>

FINAL RESULT: ∅ GPH

CRITERIA: Pass/Fail

I certify that this test has been conducted according to DILKR material Approval established protocol and meets the requirement for leak detection prescribed by the federal EPA and WI Administrative Code ILKR - 0

Technician: [Signature]

Certification #: 849176





Pump and Meter Service, Inc

SERVICES • SALES • INSTALLATION

11301 EXCELSIOR BLVD  
(612) 933 4800

HOPKINS MN 55123  
FAX (612) 939 0418

LOCATION: Olson Truck Stop  
1401 148th  
Clearwater, MN

DATE 7-20-05  
NO # 198561

Precision Line Test  
Horner EZ Check Tester  
WI Approval 1920089-U

Product ID: Midgrade

Type of System Submerged/Suction

Line Construction Steel

Tank Construction \_\_\_\_\_

Applied Pressure 50 psi

Tank Capacity \_\_\_\_\_

M/T	TIME	DATA	+/-	GPH	RES	GPH
<u>M</u>	<u>12:15</u>	<u>75</u>	<u>—</u>	<u>0037</u>	<u>—</u>	<u>—</u>
<u>M</u>	<u>12:30</u>	<u>75</u>	<u>Ø</u>	<u>0037</u>	<u>Ø</u>	<u>Ø</u>
<u>M</u>	<u>12:45</u>	<u>75</u>	<u>Ø</u>	<u>0037</u>	<u>Ø</u>	<u>Ø</u>
<u>T</u>	<u>1:00</u>	<u>75</u>	<u>Ø</u>	<u>0039</u>	<u>Ø</u>	<u>Ø</u>
<u>T</u>	<u>1:15</u>	<u>75</u>	<u>Ø</u>	<u>0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>1:30</u>	<u>75</u>	<u>Ø</u>	<u>0039</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>1:45</u>	<u>75</u>	<u>Ø</u>	<u>0039</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>0037</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>0039</u>	<u>—</u>	<u>—</u>
—	—	—	—	<u>0039</u>	<u>—</u>	<u>—</u>

FINAL RESULT: Ø GPH

CRITERIA: Pass Fail

I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detection prescribed by the Federal EPA and WI Administrative Code [LHR 10

Technician: Burt Burt

Certification: 849176



Pumps and Meter Service Inc

SERVICE • SALES • INSTALLATION

11300 EXCELSIOR BLVD  
(612) 933 4800

HOPKINS MN 55303  
FA (612) 939 0415

LOCATION Olsen Truck Stop  
1401 148th  
Clearwater, MN

DATE 7-20-05  
W O # 198561

Precision Line Test  
Horner EZ Check Tester  
WI Approval 1920089-U

Product ID: Unleaded sump #2 Type of System: Submerged/Suction  
Line Construction: Steel Tank Construction \_\_\_\_\_  
Applied Pressure 50 psi Tank Capacity \_\_\_\_\_

M/T	TIME	DATA	+/-	CPL	RES	GPH
<u>M</u>	<u>10:15</u>	<u>77</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>M</u>	<u>10:30</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>Ø</u>	<u>Ø</u>
<u>M</u>	<u>10:45</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>Ø</u>	<u>Ø</u>
<u>T</u>	<u>11:00</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>Ø</u>	<u>Ø</u>
<u>T</u>	<u>11:15</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>11:30</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>T</u>	<u>11:45</u>	<u>77</u>	<u>Ø</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>.0037</u>	<u>—</u>	<u>—</u>

FINAL RESULT: Ø GPH CRITERIA: Pass/Fail

I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detection prescribed by the Federal EPA and WI Administrative Code ILWR .0

Technician: Burt Burt Certification #: 849176



Pumps and Meter Service, Inc

SERVICE - SALES - INSTALLATION

11302 EXCELSIOR BLVD  
COLUMBIANA, MN 55309

HOPKINS MN 55303  
TEL: 612/933-4800 FAX: 612/939-0418

LOCATION Olson Truck Stop  
1461 148th  
Clearwater, MN

DATE: 7-20-05  
W O #: 198561

Precision Line Test  
Horner EZ Check Tester  
WI Approval #920089-U

Product ID: unleaded Sump#1  
Line Construction: Steel  
Applied Pressure: 50 psi

Type of System: Submerged/Suction  
Tank Construction: \_\_\_\_\_  
Tank Capacity: \_\_\_\_\_

M/T	TIME	DATA	+/-	CPL	RES	GPH
<del>M</del>	10:15	38	—	.0037	—	—
M	10:30	38	Ø	.0037	Ø	Ø
M	10:45	38	Ø	.0037	Ø	Ø
T	11:00	38	Ø	.0037	Ø	Ø
T	11:15	38	Ø	.0037	—	—
T	11:30	38	Ø	.0037	—	—
T	11:45	38	Ø	.0037	—	—
—	—	—	—	.0037	—	—
—	—	—	—	.0037	—	—
—	—	—	—	.0037	—	—

FINAL RESULT: Ø GPH

CRITERIA: Pass/Fail

I certify that this test has been conducted according to DILHR material Approval established protocol and meets the requirement for leak detection prescribed by the Federal EPA and WI Administrative Code ILHR 10

Technician: Burt Burt

Certification #: 849176