

- This form should be utilized to evaluate underground storage tank (UST) cathodic protection systems in the Commonwealth of Virginia.
- Access to the soil directly over the cathodically protected structure that is being evaluated must be provided.
- A site drawing depicting the UST cathodic protection system and all reference electrode placements must be completed.

**I. UST OWNER**

**II. UST FACILITY**

NAME: seayhaver@hotmail.com		NAME: Seay & Haver Oil Co.		ID #
ADDRESS:		ADDRESS: 16855 Oak St (PO Box 470)		
CITY:	PHONE:	CITY: Dillwyn		COUNTY: Buckingham
STATE:	ZIP:	STATE: VA	ZIP: 23936	PHONE: 434-480-2304

**III. REASON SURVEY WAS CONDUCTED (mark only one)**

<input checked="" type="checkbox"/> Routine - 3 year	<input type="checkbox"/> Routine – within 6 months of installation	<input type="checkbox"/> 90-day re-survey after fail	<input type="checkbox"/> Re-survey after repair/modification
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Date next cathodic protection survey must be conducted 3/2029 (required within 6 months of installation/repair & every 3 years thereafter).

**IV. CATHODIC PROTECTION TESTER'S EVALUATION (mark only one)**

<input checked="" type="checkbox"/>	<b>PASS</b>	All protected structures at this facility pass the cathodic protection survey and it is judged that adequate cathodic protection has been provided to the UST system (indicate all criteria applicable by completion of Section VI).
<input type="checkbox"/>	<b>FAIL</b>	One or more protected structures at this facility fail the cathodic protection survey and it is judged that adequate cathodic protection has not been provided to the UST system(s) (complete Section VII).

TESTER'S NAME: GREG COFFEE		SOURCE OF CERTIFICATION: NACE	
COMPANY NAME: C & B CONTRACTING SPECIALIST		TYPE OF CERTIFICATION: CATHODIC PROTECTION TESTER	
ADDRESS: PO BOX 4711		CERTIFICATION NUMBER: # 7758	
CITY: LYNCHBURG	STATE: VA	ZIP: 24502	PHONE: 434-942-9098
CP TESTER'S SIGNATURE: <i>Gregory A. Coffee</i>		DATE SIGNED: 3/25/2026	DATE CP SURVEY PERFORMED: 3/25/2026

**V. CORROSION EXPERT'S EVALUATION (mark only one)**

The survey must be conducted and/or evaluated by a corrosion expert when: a) supplemental anodes or other changes in the construction of the cathodic protection system are made; b) stray current may be affecting buried metallic structures or c) an inconclusive result was written in Section VI. (except for under STI-R972 – "Recommended Practice for the Addition of Supplemental Anodes to sti-P<sub>3</sub><sup>®</sup> UST's")

<input type="checkbox"/>	<b>PASS</b>	All protected structures at this facility pass the cathodic protection survey and it is judged that adequate cathodic protection has been provided to the UST system (indicate all criteria applicable by completion of Section VI).
<input type="checkbox"/>	<b>FAIL</b>	One or more protected structures at this facility fail the cathodic protection survey and it is judged that adequate cathodic protection has not been provided to the UST system (indicate what action is necessary by completion of Section VII).

CORROSION EXPERT'S NAME:		SOURCE OF CERTIFICATION:	
COMPANY NAME:		TYPE OF CERTIFICATION:	
ADDRESS:		CERTIFICATION NUMBER:	
CITY:	STATE:	ZIP:	PHONE:
CORROSION EXPERT'S SIGNATURE:			DATE:

**VI. CRITERIA APPLICABLE TO EVALUATION (mark all that apply)**

<input checked="" type="checkbox"/>	<b>- 850mV ON / (Instant) OFF</b>	Structure-to-soil potential more negative than -850 mV with respect to a Cu/CuSO <sub>4</sub> reference electrode with protective current ON (galvanic) or temporarily interrupted (instant-OFF (impressed)). <b>Inconclusive?</b>
<input type="checkbox"/>	<b>100 mV POLARIZATION</b>	Structure(s) exhibit at least 100 mV of cathodic polarization. <b>Inconclusive?</b>

**VII. ACTION REQUIRED AS A RESULT OF THIS EVALUATION (mark only one)**

<input checked="" type="checkbox"/>	<b>NONE</b>	Cathodic protection is adequate. No further action is necessary at this time. Test again by no later than (see Section V).
<input type="checkbox"/>	<b>RETEST</b>	Cathodic protection may not be adequate. Retest during the next 90 days to determine if passing results can be achieved.
<input type="checkbox"/>	<b>REPAIR &amp; RETEST</b>	Cathodic protection is not adequate. Repair/modification is necessary as soon as practical but within the next 90 days.

**VIII. DESCRIPTION OF UST SYSTEM**

TANK #	PRODUCT	CAPACITY	TANK MATERIAL	PIPING MATERIAL	FLEX CONNECTORS
1	Regular	6,000	Stip3	Fiberglass	Yes
2	Regular 2	6,000	Stip3	Fiberglass	Yes
3	Diesel	12,000	Stip3	Fiberglass	No
4	Off Road	12,000	Stip3	Fiberglass	No
5					
6					
7					
8					
9					
10					

**IX. IMPRESSED CURRENT RECTIFIER DATA (complete all applicable)**

In order to conduct an effective evaluation of the cathodic protection system, a complete evaluation of rectifier operation is necessary.

RECTIFIER MANUFACTURER: <b>N/A - Galvanic System</b>	RATED DC OUTPUT: _____ VOLTS _____ AMPS
RECTIFIER MODEL:	RECTIFIER SERIAL NUMBER:
RECTIFIER OUTPUT AS INITIALLY DESIGNED OR LASTLY RECOMMENDED (if available): _____ VOLTS _____ AMPS	

EVENT	DATE	TAP SETTINGS		DC OUTPUT		HOUR METER	COMMENTS
		COARSE	FINE	VOLTS	AMPS		
"AS FOUND"							
"AS LEFT"							

**X. IMPRESSED CURRENT POSITIVE & NEGATIVE CIRCUIT MEASUREMENTS (output amperage)**

Complete if the system is designed to allow such measurements (i.e. individual lead wires for each anode are installed and measurement shunts are present).

CIRCUIT	1	2	3	4	5	6	7	8	9	10	TOTAL AMPS
ANODE (+)	N/A										
TANK (-)											

**XI. DESCRIPTION OF CATHODIC PROTECTION SYSTEM REPAIRS AND/OR MODIFICATION**

Complete if any repairs or modifications to the cathodic protection system are made OR are necessary. Certain repairs/modifications as explained in the text of the VADEQ cathodic protection guidance document are required to be designed and/or evaluated by a corrosion expert (completion of Section V required).

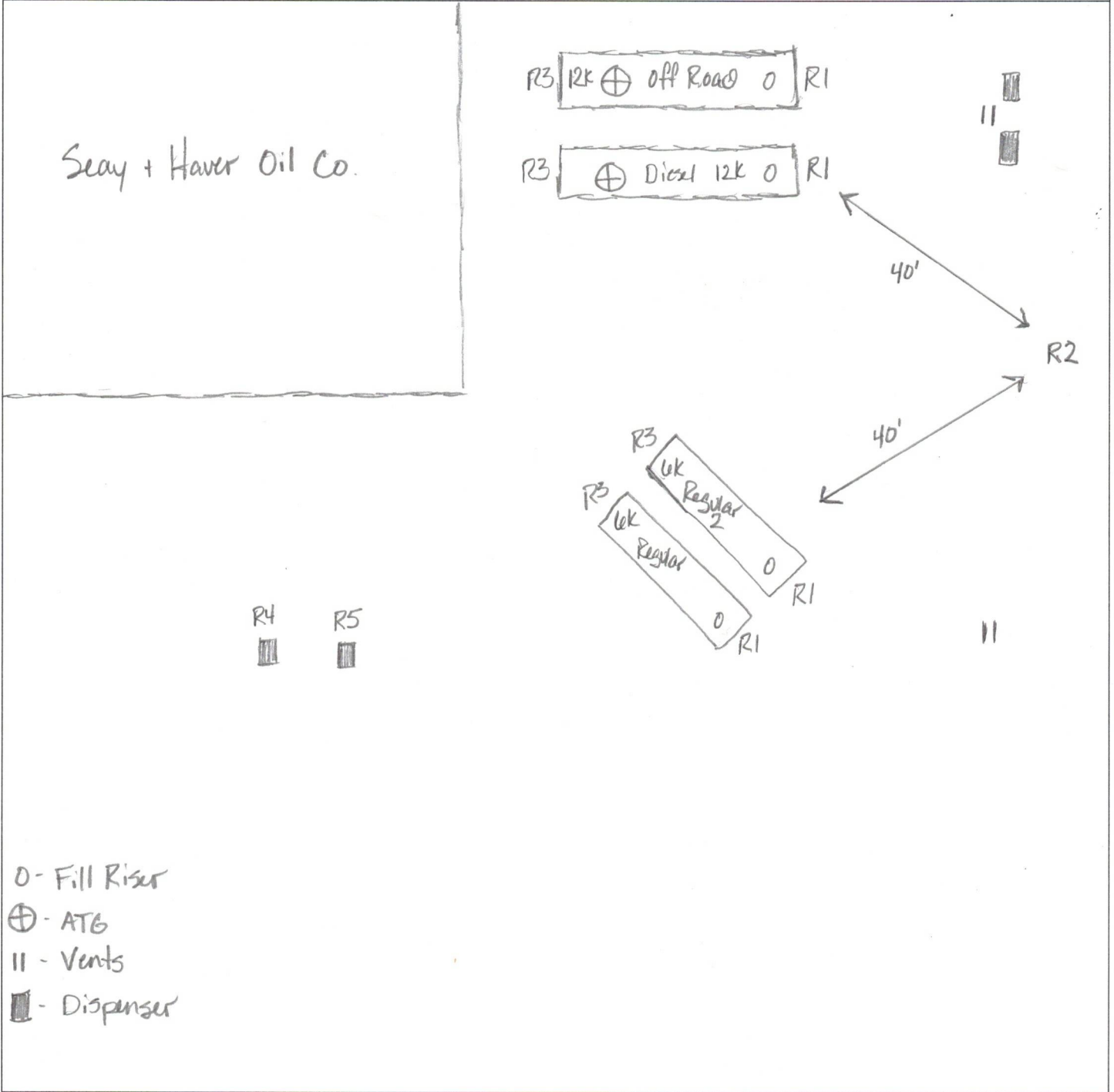
Additional anodes for an impressed current system (attach corrosion expert's design).
Supplemental anodes for a STI-P3® tank or metallic pipe (attach corrosion expert's design or documentation industry standard was followed).
Repairs or replacement of rectifier (explain in "Remarks/Other" below).
Anode header cables repaired and/or replaced(explain in "Remarks/Other" below).
Impressed current protected tanks/piping not electrically continuous (explain in "Remarks/Other" below).
Galvanically protected tanks/piping NOT electrically isolated (explain in "Remarks/Other" below).

**Remarks/Other:**  
  
 System is comprised of 4 stip3 tanks with fiberglass piping. There are flex connectors at the gasoline dispensers only. Product piping is suction.

## XII. UST FACILITY SITE DRAWING

Attach detailed drawing of the UST and cathodic protection systems. Sufficient detail must be given in order to clearly indicate where the reference electrode was placed for each structure-to-soil potential that is recorded on the survey forms. Any pertinent data must also be included. At a minimum indicate the following: all tanks, piping and dispensers; all buildings and streets; all anodes and wires; location of CP test stations; and, each reference electrode placement must be indicated by a code (1, 2, 3; R-1, R-2, R-3...etc.) corresponding with the appropriate line number in Section XIV of this form. (Note, CP test stations (PP4) may be questionable for use as described in Section 6.1.2)

**AN EVALUATION OF THE CATHODIC PROTECTION SYSTEM IS NOT COMPLETE WITHOUT AN ACCEPTABLE SITE DRAWING.**





## XIV. CATHODIC PROTECTION SYSTEM SURVEY

**This section may be utilized to conduct a survey of the cathodic protection system by obtaining structure-to-soil potential measurements.**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>➤ <b>For Impressed Current systems:</b> the reference electrode must be placed (minimum of three locations) in the soil directly above the structure that is being tested and as far away from any active anode as practical to obtain a valid structure-to-soil potential (refer to the VADEQ cathodic protection evaluation guidance document for detailed discussion of electrode placement).</li> <li>➤ Both "on" and "instant off" potentials must be measured for each structure that is intended to be under cathodic protection.</li> <li>➤ The "instant off" potential must be -850 mV or more negative or the 100 mV polarization criterion must be satisfied in order to pass.</li> </ul> | <ul style="list-style-type: none"> <li>➤ <b>For Galvanic systems:</b> the reference electrode must be placed (minimum of three locations) with at least one local and at least one placed remotely 25-100 feet away from the structure.</li> <li>➤ Both the local and remote voltage must be -850 mV or more negative, in order for the structure to pass.</li> <li>➤ Inconclusive is indicated when both the local and remote structure-to-soil potentials do not result in the same outcome (both must "pass" or both "fail").</li> <li>➤ As a place to record the "galvanic CP system voltage", use the "Instant Off Voltage" sixth column below.</li> </ul> |
|---|---|

**FACILITY NAME:** Seay & Haver Oil Co.

NOTE: This survey is not complete unless all applicable parts of sections I – XIV are also completed.

LOCATION CODE <sup>1</sup>	STRUCTURE <sup>2</sup>	CONTACT POINT <sup>3</sup>	REFERENCE CELL PLACEMENT <sup>4</sup>	ON <sup>5</sup> VOLTAGE	INSTANT OFF <sup>6</sup> VOLTAGE	100 mv polarization		PASS FAIL
						ENDING <sup>7</sup> VOLTAGE	VOLTAGE CHANGE	
R1	Regular Tank	Tank Bottom	Fill Riser End	-.918				Pass
R2	Regular Tank	Tank Bottom	Remote Location	-.912				Pass
R3	Regular Tank	Tank Bottom	Opposite End of Tank	-.900				Pass
R1	Regular 2 Tank	Tank Bottom	Fill Riser End	-.895				Pass
R2	Regular 2 Tank	Tank Bottom	Remote Location	-.902				Pass
R3	Regular 2 Tank	Tank Bottom	Opposite End of Tank	-.874				Pass
R1	Diesel Tank	Tank Bottom	Fill Riser End	-1.020				Pass
R2	Diesel Tank	Tank Bottom	Remote Location	-.942				Pass
R3	Diesel Tank	Tank Bottom	Opposite End of Tank	-.992				Pass
R1	Off Road Tank	Tank Bottom	Fill Riser End	-1.076				Pass
R2	Off Road Tank	Tank Bottom	Remote Location	-.986				Pass
R3	Off Road Tank	Tank Bottom	Opposite End of Tank	-1.055				Pass
R4	Regular Flex	Flex Connector	At Dispenser	-.896				Pass
R5	Regular 2 Flex	Flex Connector	At Dispenser	-.911				Pass

**COMMENTS:**

All structures are isolated from the tanks. All tanks and flex connectors in need of corrosion protection are protected and pass by meeting the -850mv criteria for corrosion prevention.

1. Designate numerically or by code on the site drawing each local reference electrode placement (e.g. 1,2,3... T-1, T-2, P-1, P-2...etc.).
2. Describe the structure that is being tested (e.g. plus tank; diesel piping; flex connector, etc.).
3. Describe where the structure being tested is contacted by the test lead (e.g. plus tank bottom; diesel piping @ dispenser 7/8; etc.).
4. Describe the exact location where the reference electrode is placed for each measurement (e.g. soil @ regular tank STP manway; soil @ dispenser 2, etc.)
5. {Applies to all tests} Record the structure-to-soil potential (voltage) observed with the current applied (e.g. -1070 mV).
6. {Applies to all tests} Record the structure to soil potential (voltage) observed when the current is interrupted (e.g. 680 mV).
7. {Applies to 100 mV polarization test only} Record the voltage observed at the end of the test period (e.g. 575 mV).
8. {Applies to 100 mV polarization test only} Subtract the final voltage from the instant off voltage (e.g. 680 mV – 575 mV = 105 mV).
9. Indicate if the tested structure passed or failed one of the two acceptable criteria (850 instant off or 100 mV polarization) based on your interpretation of data.