



EZY Chek Systems CERTIFICATION EXAM COVER SHEET

PLEASE CHECK ALL
METHODS THAT APPLY

- EZY 3 LOCATOR PLUS
- PRODUCT LINE TESTING
- LEAK DETECTOR TESTING

Contact Name: _____

Company Name: _____

Technician Name: _____

Company Address: _____

Company Phone: _____

Company Fax: _____

E-Mail Address _____

Technician SSN: _____

(Last 6 digits - ONLY!)

INITIAL

_____ I agree to completely and without deviation follow the protocol set forth by Estabrook's, Inc. regarding the procedures and practices instructed by and certified by Brad Estabrook when using the Estabrook's, Inc. EZY Chek Systems.

_____ I agree to follow Estabrook's, Inc. protocol regarding certification and calibration.

_____ I agree to renew my certification biannually; I understand that it is my responsibility to contact Estabrook's, Inc. to arrange my recertification prior to my certification expiration date.

_____ I agree to calibrate my equipment annually; I understand that "equipment" is defined as the Acoustic Signal Processor, In-Tank Microphone, Pressure Sensor, Water Sensor Display, Water Sensor Probe and Negative Pressure Gauge. I understand that it is my responsibility to contact Estabrook's, Inc. to arrange the annual calibration of my equipment prior to the expiration date.

_____ I have read the above requirements and agree to the terms and conditions there to.

Technician Signature

Date



EZY Chek Systems

EZY 3 LOCATOR PLUS

CERTIFICATION

EXAM

Read each question; write the letter to the answer you chose in the space provided next to the question number.

- 1) _____ What is the PSI (weight) of water?
 - a. .036
 - b. .032
 - c. .026
 - d. .033

- 2) _____ What is the PSI (weight) of gas?
 - a. .036
 - b. .032
 - c. .026
 - d. .033

- 3) _____ What is the PSI (weight) of diesel?
 - a. .036
 - b. .031
 - c. .026
 - d. .049

- 4) _____ What is the PSI (weight) of kerosene?
 - a. .033
 - b. .031
 - c. .028
 - d. .029

- 5) _____ What is the PSI (weight) of transmission fluid?
 - a. .036
 - b. .033
 - c. .049
 - d. .029

- 6) _____ What is the PSI (weight) of motor oil?
 - a. .036
 - b. .031
 - c. .022
 - d. .033

- 7) _____ What is the PSI (weight) of brine?
 - a. .049
 - b. .029
 - c. .028
 - d. .034

EZY Chek Systems
EZY 3 LOCATOR PLUS CERTIFICATION EXAM

- 8) _____ Tank capacity shall not exceed what size?
- 20,000 gallons
 - 30,000 gallons
 - 50,000 gallons
 - 100,000 gallons
- 9) _____ What is the “*maximum*” pressure place on the tank top and shall never be exceeded?
- 2.00 psi of vacuum
 - 4.00 psi of vacuum
 - 6.00 psi of vacuum
 - 8.00 psi of vacuum
- 10) _____ What is the “*minimum*” amount of ullage space required to conduct a test on a tank?
- 1% total tank volume -or- 50 gallons whichever is less
 - 2% total tank volume
 - 50 gallons
 - 1% total tank volume -or- 50 gallons, whichever is greater
- 11) _____ What is the “*maximum*” amount of ullage space required to conduct a test on a tank?
- 10,000 gallons
 - 20,000 gallons
 - 30,000 gallons
 - 99% total tank capacity
- 12) _____ Before pulling vacuum on a tank and running an acoustic test, the microphone should always be checked for proper operation?
- True
 - False
- 13) _____ After the tank is completely sealed off, what must be done “*before*” turning on the motor blower to pull vacuum on the tank?
- All safety precautions shall be made to area.
 - The calculation must be completed to determine vacuum that shall be applied to the tank.
 - A background base line test must be taken of the sound in the tank with no vacuum applied.
 - All of the above.
- 14) _____ At a “*minimum*”, how long should the motor blower run and circulate once the proper amount of vacuum has been applied to the tank?
- 1-2 minutes
 - 3-5 minutes
 - 5-7 minutes
 - 7-9 minutes
- 15) _____ At a “*minimum*”, how long must the technician run the acoustic portion of the test (*with the exception of Rockland County*)?
- 4 minutes
 - 1 minutes
 - 2 minutes
 - 3 minutes

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- 16) _____ If the acoustic equipment reveals a "hiss", what portion of the tank may be leaking?
- Below the liquid level
 - Above the liquid level
 - The tank interstitial space
 - It can only be a vent or stage II line that causes this
- 17) _____ If the acoustic equipment reveals a "bubble", what portion of the tank may be leaking?
- Below the liquid level
 - Above the liquid level
 - The tank interstitial space
 - It can only be a vent or stage II line that causes this
- 18) _____ If the acoustic equipment reveals "no" sound and there is no ground water around the tank, the tank is tight?
- True
 - False
- 19) _____ On the digital pressure sensor; where should the switches be set to monitor the tank's vacuum level?
- Slow/Fast and PSI
 - Slow/Fast and H₂O
 - Slow/Fast and HG
 - Slow/Fast and KPA
- 20) _____ calculate the following "minimum test length" for running a water intrusion test when your average calibration is **50mL** (round to the nearest minute):
- 12 minutes
 - 16 minutes
 - 24 minutes
 - 32 minutes
- 21) _____ calculate the following "minimum test length" for running a water intrusion test when your average calibration is **75mL** (round to the nearest minute):
- 12 minutes
 - 16 minutes
 - 24 minutes
 - 32 minutes
- 22) _____ calculate the following "minimum test length" for running a water intrusion test when your average calibration is **125mL** (round to the nearest minute):
- 30 minutes
 - 32 minutes
 - 40 minutes
 - 48 minutes
- 23) _____ calculate the following "minimum test length" for running a water intrusion test when your average calibration is **150mL** (round to the nearest minute):
- 30 minutes
 - 32 minutes
 - 40 minutes
 - 48 minutes

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- 24) _____ What is the leak threshold for water intrusion?
- a. .05 inches
 - b. 0 gallons
 - c. .0140 inches
 - d. .05 gallons
- 25) _____ If .0100 gallons of water did intrude into the tank during a test, does the tank pass or fail?
- a. Pass
 - b. Fail
- 26) _____ What is the “*minimum*” amount of calibrations that must be performed prior to setting your water intrusion sensor and conducting a water intrusion test?
- a. None
 - b. 1 calibration
 - c. 2 calibrations
 - d. 3 calibrations
- 27) _____ Estabrook’s recommends what test solution when calibrating your conductive water sensor?
- a. A water/antifreeze mix
 - b. A water/biocide mix
 - c. A antifreeze/biocide mix
 - d. Straight water
- 28) _____ It is critically important to accurately determine water table prior to conducting a tank tightness test?
- a. True
 - b. False
- 29) _____ All tank testing equipment is required to be calibrated annually by the manufacturer, Estabrook’s, Inc.?
- a. True
 - b. False
- 30) _____ How often shall a technician recertify with the manufacturer of the EZY 3 Locator Plus test equipment?
- a. Every 2 years
 - b. Every 4 years
 - c. Every 5 years
 - d. Certification does not need to be renewed



EZY Chek Systems

EZY 3 LOCATOR PLUS CERTIFICATION EXAM

Data Sheet Instructions

On the following pages you will find three Estabrook's, Inc. EZY 3 Locator Plus Pressure Calculation Data Sheets.

We have provided you with the necessary information on the Data Sheet to complete the Pressure Calculations ***and*** the Calculation for the Test Period.

Product Information:

- ◆ Using the data provided in the "Product Type" located at the top left of the Pressure Calculation Sheet, enter the "WEIGHT OF PRODUCT" into the corresponding space provided in the Pressure Sensor Calculation box.
- ◆ Use this data to complete the Pressure Calculations along with the other Data provided.

Pressure Calculations:

- ◆ Data is provided on the Tank Diagram located on the bottom right of the Pressure Calculation Sheet.
- ◆ Enter this data into the corresponding space in the "PRESSURE SENSOR CALCULATION" box.
- ◆ Complete all calculations; 1-7 to achieve the "TEST PRESSURE".

Water Sensor Calibration:

- ◆ Data is provided in the "WATER SENSOR CALIBRATION" box located on the bottom left of the Pressure Calculation sheet.
- ◆ Average the three Water Sensor Calibrations and enter it in to the corresponding space marked "Average".
- ◆ Complete the "Calculations for Test Period" to achieve the "Time of Test".



PRESSURE CALCULATION & WATER SENSOR CALIBRATION

DATA SHEET

Test Date _____

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	DIESEL OR #2 OIL
PBS # (NEW YORK)	
TANK #	TEST #1

Location	
Address	
City/State/Zip	
Location Contact	
Location Phone	
Depth of Groundwater Determined:	
By:	
Where:	

PRESSURE SENSOR CALCULATION

_____	x	_____	=	_____	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
_____	x	_____	=	_____	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	_____	PSI (3)
_____	x	_____	=	_____	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	_____	+/- PSI (5)
Always add .5 PSI			+	_____	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	_____	+/- PSI (7)

ACOUSTIC TEST TIME

Equipment Calibration due date and serial numbers

	Time	Pressure	Serial Number	Calibration Due Date
Baseline Background:	_____	_____		
Blower Started:	_____	_____	In-Tank Microphone	_____
Test Pressure Reached:	_____	_____	Acoustic Signal Processor	_____
Blower Turned Off:	_____	_____	Pressure Sensor	_____
Test Began:	_____	_____	Water Sensor Display	_____
Test Ended:	_____	_____	Water Sensor Probe	_____

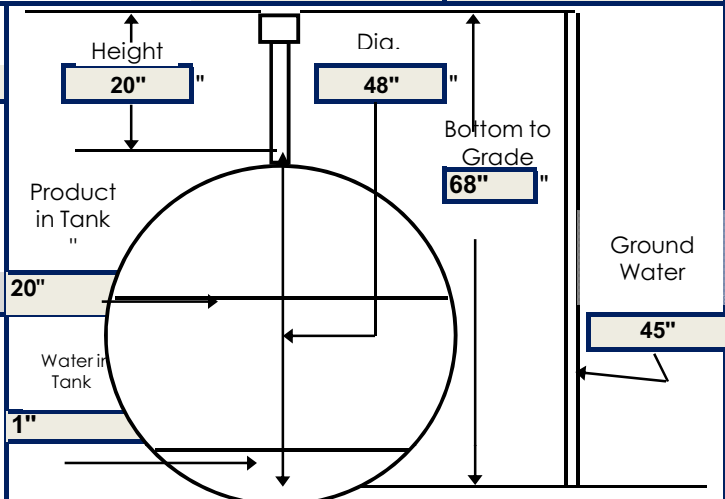
WATER SENSOR CALIBRATION

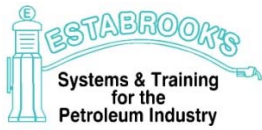
Added:	30	30	30	
	Cal #1	Cal #2	Cal #3	
Average:	_____			
Calculation for Test Period:				
_____	÷ 3780 =	_____	÷ .05	_____
Avg. Cal.	"A" Factor		x 60 =	_____
			Min. Time of Test	

Water Intrusion Test Period

Began: _____

Ended: _____





PRESSURE CALCULATION & WATER SENSOR CALIBRATION

DATA SHEET

Test Date _____

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

TOTAL TANK VOL. _____

PRODUCT VOL. _____

ULLAGE VOL. _____

PRODUCT TYPE **GASOLINE**

PBS # (NEW YORK) _____

TANK # **TEST #2**

Location _____

Address _____

City/State/Zip _____

Location Contact _____

Location Phone _____

Depth of Groundwater Determined: _____

By: _____

Where: _____

PRESSURE SENSOR CALCULATION

_____	x	_____	=	_____	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
_____	x	_____	=	_____	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	_____	PSI (3)
_____	x	_____	=	_____	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	_____	+/-PSI (5)
Always add .5 PSI			+	_____	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	_____	+/-PSI (7)

ACOUSTIC TEST TIME

Equipment Calibration due date and serial numbers

	Time	Pressure		Serial Number	Calibration Due Date
Baseline Background:	_____	_____			
Blower Started:	_____	_____	In-Tank Microphone	_____	_____
Test Pressure Reached:	_____	_____	Acoustic Signal Processor	_____	_____
Blower Turned Off:	_____	_____	Pressure Sensor	_____	_____
Test Began:	_____	_____	Water Sensor Display	_____	_____
Test Ended:	_____	_____	Water Sensor Probe	_____	_____

WATER SENSOR CALIBRATION

Added: 0 0 0

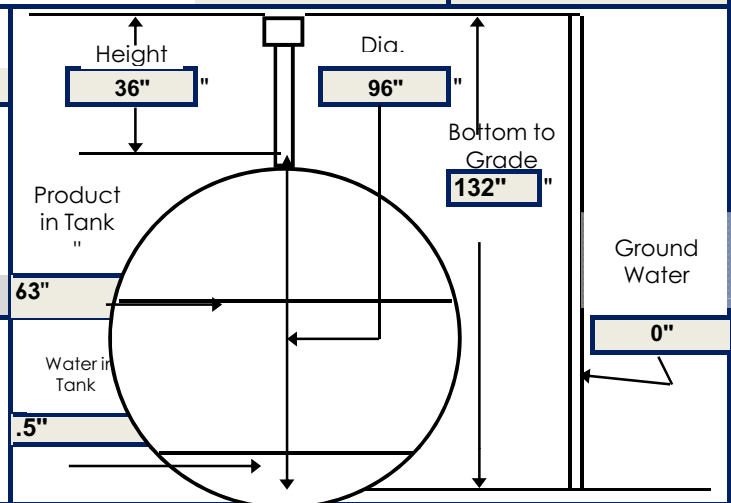
Cal #1 Cal #2 Cal #3

Average: _____

Calculation for Test Period:

_____ ÷ 3780 = _____ ÷ .05 _____ x 60 = _____

Avg. Cal. "A" Factor Min. Time of Test



Water Intrusion Test Period

Began: _____

Ended: _____



PRESSURE CALCULATION & WATER SENSOR CALIBRATION

DATA SHEET

Test Date _____

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

TOTAL TANK VOL. _____

PRODUCT VOL. _____

ULLAGE VOL. _____

PRODUCT TYPE **GASOLINE**

PBS # (NEW YORK) _____

TANK # **TEST #3**

Location _____

Address _____

City/State/Zip _____

Location Contact _____

Location Phone _____

Depth of Groundwater Determined: _____

By: _____

Where: _____

PRESSURE SENSOR CALCULATION

_____	x	_____	=	_____	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
_____	x	_____	=	_____	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	_____	PSI (3)
_____	x	_____	=	_____	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	_____	+/- PSI (5)
Always add .5 PSI			+	_____	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	_____	+/- PSI (7)

ACOUSTIC TEST TIME

Equipment Calibration due date and serial numbers

	Time	Pressure	Serial Number	Calibration Due Date
Baseline Background:	_____	_____		
Blower Started:	_____	_____	In-Tank Microphone	_____
Test Pressure Reached:	_____	_____	Acoustic Signal Processor	_____
Blower Turned Off:	_____	_____	Pressure Sensor	_____
Test Began:	_____	_____	Water Sensor Display	_____
Test Ended:	_____	_____	Water Sensor Probe	_____

WATER SENSOR CALIBRATION

Added: **75** **75** **75**

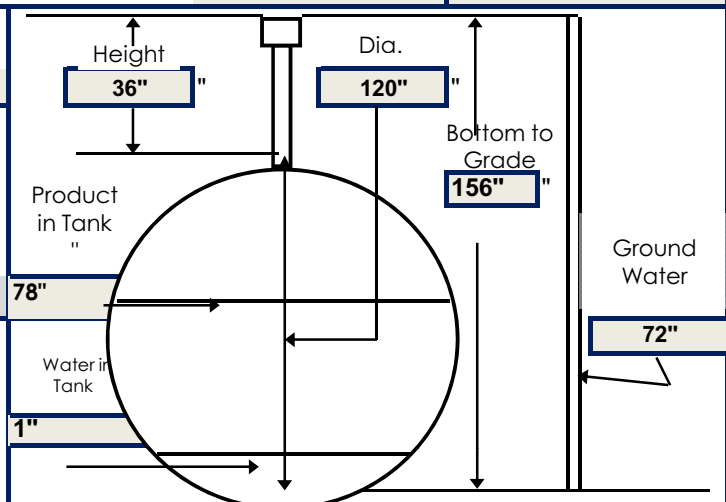
Average: _____

Cal #1 Cal #2 Cal #3

Calculation for Test Period:

_____ ÷ 3780 = _____ ÷ .05 _____ x 60 = _____

Avg. Cal. "A" Factor Min. Time of Test



Water Intrusion Test Period

Began: _____

Ended: _____