

TANK PRESSURE CALCULATION and WATER SENSOR CALIBRATION

EZY CHEK SYSTEMS

FINAL REPORT

PC # and WO #	
NAME and FID #	Marathon - FID # 15294
ADDRESS	831 E. Colfax Ave.
CITY/STATE/ZIP	South Bend, IN 46617
CONTACT	Rajinder Singh
PHONE	(219) 210-0052

DATE AND TIME	5/28/20 - 1:30 PM
WEATHER	70 - Rain
INVOICE	Collected
TOTAL TANK VOL.	6016
PRODUCT VOL.	1725
ULLAGE VOL.	3989
PRODUCT TYPE	Premium
TANK #	1
Depth of Groundwater Determined:	0.00
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	ULLAGE (DRY) PORTION OF LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	☒
Water Intrusion	☐
Not Applicable	☐

OPERATOR INFO

Print Name	Adam Case	Certification #	27-1160
Sign Name	Adam Case	Expiration Date	5/17/22
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	209 S. Calumet Rd. Suite 4		
City/State/Zip	Chesterton, IN 46304		

STATE REQUIREMENT: A DIAGRAM OF THE TANK SYSTEM MUST BE SUBMITTED TO THE STATE WITH THIS REPORT

	Serial Number
IN-TANK MICROPHONE	M1808031 and M1806005
ACOUSTIC SIGNAL PROCESSOR	E1815004
PRESSURE SENSOR	40665414 and 40665314
WATER SENSOR DISPLAY	D1413203 and D1411504
WATER SENSOR PROBE	P1404102 and P1404106

Calibration Expiration Date
October-20
October-20
October-20
October-20
October-20

COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion.

Midwest Tank Testing

AN ENVIRONMENTAL COMPLIANCE COMPANY

209 S. Calumet Rd. Suite 4
Chesterton, IN 46304

TANK PRESSURE CALCULATION and WATER SENSOR CALIBRATION

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DATA SHEET

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PHONE	(219) 210-0052

TANK TIGHTNESS TEST - (TTT) PRESSURE SENSOR CALCULATION

31.00	x	0.026	=	0.806	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.806	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	0.806	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.306	+/- PSI (7)

ACOUSTIC TEST TIME

	Time	Pressure
Baseline Background:	3:12 PM	0.0
Blower Started:	3:13 PM	0.0
Test Pressure Reached:	3:22 PM	1.402
Blower Turned Off:	3:25 PM	1.389
Test Began:	3:28 PM	1.385
Test Ended:	3:31 PM	1.383

EQUIPMENT CALIBRATION DUE DATE AND SERIAL NUMBERS

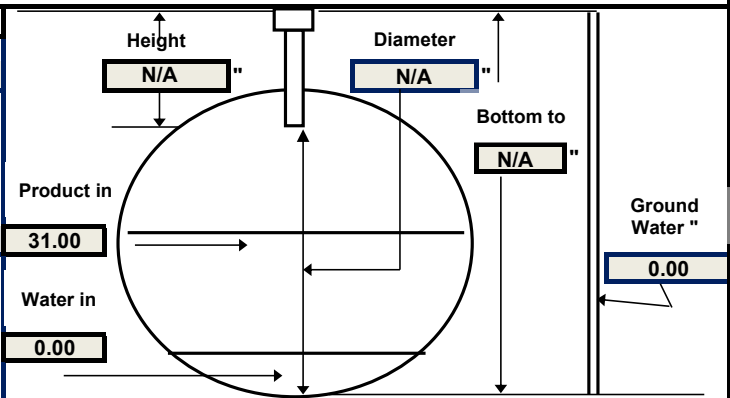
	Serial Number	Calibration Due Date
In-Tank Microphone	M1808031 and M1806005	October-20
Acoustic Signal Processor	E1815004	October-20
Pressure Sensor	40665414 and 40665314	October-20
Water Sensor Display	D1413203 and D1411504	October-20
Water Sensor Probe	P1404102 and P1404106	October-20

WATER SENSOR CALIBRATION

Added:	50	50	50
	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50 ÷ 3780 = 0.013	÷ .05	0.265	x 60
Avg. Cal.	"A" Factor		16 minutes
			Time of Test

Water Intrusion Test Period:

Began:	3:35 PM
Ended:	3:51 PM



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PHONE	(219) 210-0052

DATE AND TIME	5/28/20 - 1:30 PM
WEATHER	70 - Rain
INVOICE	Collected
TOTAL TANK VOL.	4011
PRODUCT VOL.	2180
ULLAGE VOL.	1629
PRODUCT TYPE	Regular 3
TANK #	2
Depth of Groundwater Determined:	0.00
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	ULLAGE (DRY) PORTION OF LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	☒
Water Intrusion	☐
Not Applicable	☐

OPERATOR INFO

Print Name	Adam Case	Certification #	27-1160
Sign Name	Adam Case	Expiration Date	5/17/22
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	209 S. Calumet Rd. Suite 4		
City/State/Zip	Chesterton, IN 46304		

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	Serial Number
IN-TANK MICROPHONE	M1808031 and M1806005
ACOUSTIC SIGNAL PROCESSOR	E1815004
PRESSURE SENSOR	40665414 and 40665314
WATER SENSOR DISPLAY	D1413203 and D1411504
WATER SENSOR PROBE	P1404102 and P1404106

Calibration Expiration Date
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COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion.

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DATA SHEET

DATE AND TIME	5/28/20 - 1:30 PM
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BY:	MEASURING STICK
WHERE:	MONITORING WELL - TANK BED

Test Location Information	
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PHONE	(219) 210-0052

TANK TIGHTNESS TEST - (TTT) PRESSURE SENSOR CALCULATION

34.00	x	0.026	=	0.884	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.884	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	0.884	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.384	+/- PSI (7)

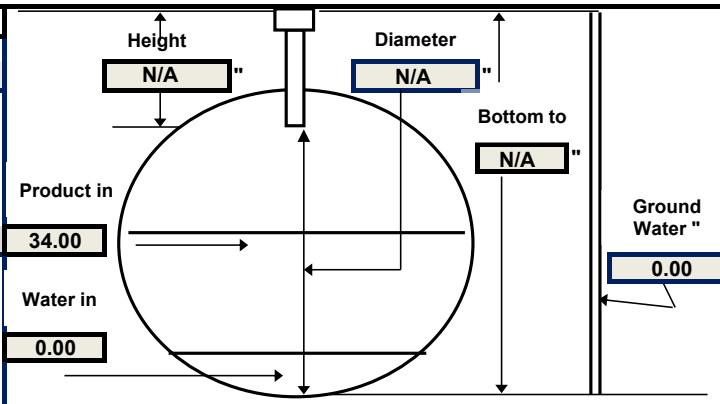
ACOUSTIC TEST TIME

EQUIPMENT CALIBRATION DUE DATE AND SERIAL NUMBERS

Time	Pressure	Serial Number	Calibration Due Date
Baseline Background:	3:12 PM	0.0	
Blower Started:	3:13 PM	0.0	
Test Pressure Reached:	3:22 PM	1.385	
Blower Turned Off:	3:25 PM	1.481	
Test Began:	3:28 PM	1.475	
Test Ended:	3:31 PM	1.473	
		In-Tank Microphone	M1808031 and M1806005
		Acoustic Signal Processor	E1815004
		Pressure Sensor	40665414 and 40665314
		Water Sensor Display	D1413203 and D1411504
		Water Sensor Probe	P1404102 and P1404106

WATER SENSOR CALIBRATION

Added:	50	50	50
	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50 ÷ 3780 = 0.013	÷ .05	0.265	x 60
Avg. Cal.	"A" Factor		16 minutes
Water Intrusion Test Period:			
Began:	3:40 PM		
Ended:	3:56 PM		



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PHONE	(219) 210-0052

DATE AND TIME	5/28/20 - 1:30 PM
WEATHER	70 - Rain
INVOICE	Collected
TOTAL TANK VOL.	4011
PRODUCT VOL.	2174
ULAGE VOL.	1636
PRODUCT TYPE	Regular 1
TANK #	3
Depth of Groundwater Determined:	0.00
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK
	THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	ULLAGE (DRY) PORTION OF LEAK
	THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	BELOW PRODUCT LEVEL (WET) PORTION LEAK
	THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	☒
Water Intrusion	☐
Not Applicable	☐

OPERATOR INFO

Print Name	Adam Case	Certification #	27-1160
Sign Name	Adam Case	Expiration Date	5/17/22
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	209 S. Calumet Rd. Suite 4		
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	Serial Number
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ACOUSTIC SIGNAL PROCESSOR	E1815004
PRESSURE SENSOR	40665414 and 40665314
WATER SENSOR DISPLAY	D1413203 and D1411504
WATER SENSOR PROBE	P1404102 and P1404106

Calibration Expiration Date
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COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion.

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34.00	x	0.026	=	0.884	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.884	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	0.884	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.384	+/- PSI (7)

ACOUSTIC TEST TIME

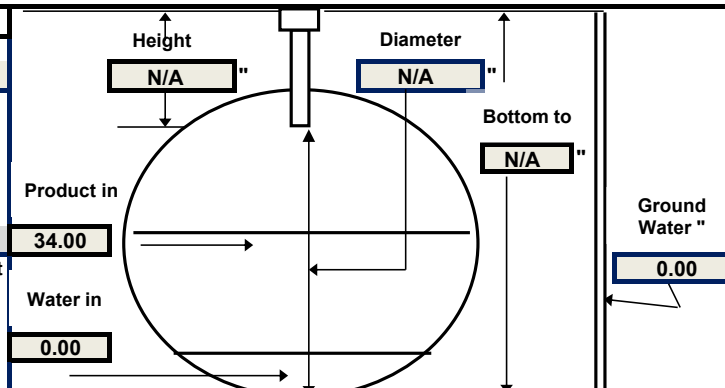
	Time	Pressure
Baseline Background:	4:01 PM	0.0
Blower Started:	4:02 PM	0.0
Test Pressure Reached:	4:17 PM	1.423
Blower Turned Off:	4:20 PM	1.459
Test Began:	4:23 PM	1.455
Test Ended:	4:27 PM	1.452

EQUIPMENT CALIBRATION DUE DATE AND SERIAL NUMBERS

	Serial Number	Calibration Due Date
In-Tank Microphone	M1808031 and M1806005	October-20
Acoustic Signal Processor	E1815004	October-20
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Added:	50	50	50
	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50	÷ 3780 =	0.013	÷ .05 = 0.265
Avg. Cal.	"A" Factor		x 60 = 16 minutes
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Began:	4:35 PM		
Ended:	4:51 PM		



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DATE AND TIME	5/28/20 - 1:30 PM
WEATHER	70 - Rain
INVOICE	Collected
TOTAL TANK VOL.	4011
PRODUCT VOL.	2178
ULAGE VOL.	1631
PRODUCT TYPE	Regular 2
TANK #	4
Depth of Groundwater Determined:	0.00
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK
	THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	ULLAGE (DRY) PORTION OF LEAK
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Water Sensor Display	D1413203 and D1411504	October-20
Water Sensor Probe	P1404102 and P1404106	October-20

WATER SENSOR CALIBRATION

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	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50 ÷ 3780 = 0.013 ÷ .05 = 0.265 x 60 = 16 minutes			
Avg. Cal.	"A" Factor		Time of Test
Water Intrusion Test Period:			
Began:	4:38 PM		
Ended:	4:54 PM		

