BARGE "E2MS 311"

ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"	
AFT DRAFT	=	6'-00"	
DIFF.	=	4'-00"	(DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

July 18, 2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

http://www.pmacorp.net

BARGE "E2MS 311"

1 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,850.17	0	4,494.39	0	4,137.74	0	3,780.47	0	3,422.77	0	3,065.06	0	2,707.35	0	2,349.58
1/4		1/4		1/4	4,842.81	1/4	4,486.96	1/4	4,130.31	1/4	3,773.02	1/4	3,415.31	1/4	3,057.61	1/4	2,699.90	1/4	2,342.13
1/2		1/2		1/2	4,835.45	1/2	4,479.53	1/2	4,122.88	1/2	3,765.57	1/2	3,407.86	1/2	3,050.16	1/2	2,692.45	1/2	2,334.68
3/4		3/4		3/4	4,828.10	3/4	4,472.10	3/4	4,115.45	3/4	3,758.11	3/4	3,400.41	3/4	3,042.70	3/4	2,685.00	3/4	2,327.22
1		1		1	4,820.74	1	4,464.67	1	4,108.02	1	3,750.66	1	3,392.96	1	3,035.25	1	2,677.55	1	2,319.77
1/4		1/4		1/4	4,813.38	1/4	4,457.24	1/4	4,100.59	1/4	3,743.21	1/4	3,385.50	1/4	3,027.80	1/4	2,670.09	1/4	2,312.31
1/2		1/2		1/2	4,806.03	1/2	4,449.81	1/2	4,093.16	1/2	3,735.76	1/2	3,378.05	1/2	3,020.35	1/2	2,662.64	1/2	2,304.86
3/4		3/4		3/4	4,798.67	3/4	4,442.38	3/4	4,085.73	3/4	3,728.31	3/4	3,370.60	3/4	3,012.89	3/4	2,655.19	3/4	2,297.41
2		2		2	4,791.31	2	4,434.95	2	4,078.30	2	3,720.85	2	3,363.15	2	3,005.44	2	2,647.74	2	2,289.95
1/4		1/4		1/4	4,783.96	1/4	4,427.52	1/4	4,070.87	1/4	3,713.40	1/4	3,355.70	1/4	2,997.99	1/4	2,640.28	1/4	2,282.50
1/2		1/2		1/2	4,776.60	1/2	4,420.09	1/2	4,063.44	1/2	3,705.95	1/2	3,348.24	1/2	2,990.54	1/2	2,632.83	1/2	2,275.04
3/4		3/4		3/4	4,769.24	3/4	4,412.66	3/4	4,056.01	3/4	3,698.50	3/4	3,340.79	3/4	2,983.09	3/4	2,625.38	3/4	2,267.59
3		3		3	4,761.88	3	4,405.23	3	4,048.58	3	3,691.04	3	3,333.34	3	2,975.63	3	2,617.93	3	2,260.13
1/4		1/4		1/4	4,754.45	1/4	4,397.80	1/4	4,041.14	1/4	3,683.59	1/4	3,325.89	1/4	2,968.18	1/4	2,610.48	1/4	2,252.68
1/2		1/2		1/2	4,747.02	1/2	4,390.37	1/2	4,033.71	1/2	3,676.14	1/2	3,318.43	1/2	2,960.73	1/2	2,603.02	1/2	2,245.23
3/4		3/4		3/4	4,739.59	3/4	4,382.94	3/4	4,026.28	3/4	3,668.69	3/4	3,310.98	3/4	2,953.28	3/4	2,595.57	3/4	2,237.77
4		4		4	4,732.16	4	4,375.51	4	4,018.85	4	3,661.24	4	3,303.53	4	2,945.82	4	2,588.12	4	2,230.32
1/4		1/4		1/4	4,724.73	1/4	4,368.08	1/4	4,011.42	1/4	3,653.78	1/4	3,296.08	1/4	2,938.37	1/4	2,580.66	1/4	2,222.86
1/2		1/2		1/2	4,717.30	1/2	4,360.65	1/2	4,003.99	1/2	3,646.33	1/2	3,288.63	1/2	2,930.92	1/2	2,573.21	1/2	2,215.41
3/4		3/4		3/4	4,709.87	3/4	4,353.22	3/4	3,996.56	3/4	3,638.88	3/4	3,281.17	3/4	2,923.47	3/4	2,565.76	3/4	2,207.95
5		5		5	4,702.44	5	4,345.79	5	3,989.13	5	3,631.43	5	3,273.72	5	2,916.02	5	2,558.30	5	2,200.50
1/4		1/4		1/4	4,695.01	1/4	4,338.36	1/4	3,981.68	1/4	3,623.97	1/4	3,266.27	1/4	2,908.56	1/4	2,550.85	1/4	2,193.05
1/2		1/2		1/2	4,687.58	1/2	4,330.93	1/2	3,974.23	1/2	3,616.52	1/2	3,258.82	1/2	2,901.11	1/2	2,543.39	1/2	2,185.59
3/4		3/4		3/4	4,680.15	3/4	4,323.50	3/4	3,966.78	3/4	3,609.07	3/4	3,251.36	3/4	2,893.66	3/4	2,535.94	3/4	2,178.14
6		6	5,014.00	6	4,672.72	6	4,316.07	6	3,959.32	6	3,601.62	6	3,243.91	6	2,886.21	6	2,528.49	6	2,170.68
1/4		1/4	5,008.82	1/4	4,665.29	1/4	4,308.64	1/4	3,951.87	1/4	3,594.17	1/4	3,236.46	1/4	2,878.75	1/4	2,521.03	1/4	2,163.23
1/2		1/2	5,003.63	1/2	4,657.86	1/2	4,301.21	1/2	3,944.42	1/2	3,586.71	1/2	3,229.01	1/2	2,871.30	1/2	2,513.58	1/2	2,155.78
3/4		3/4	4,998.45	3/4	4,650.43	3/4	4,293.78	3/4	3,936.97	3/4	3,579.26	3/4	3,221.56	3/4	2,863.85	3/4	2,506.12	3/4	2,148.32
7		7	4,993.26	7	4,643.00	7	4,286.34	7	3,929.52	7	3,571.81	7	3,214.10	7	2,856.40	7	2,498.67	7	2,140.87
1/4		1/4	4,986.83	1/4	4,635.57	1/4	4,278.91	1/4	3,922.06	1/4	3,564.36	1/4	3,206.65	1/4	2,848.95	1/4	2,491.21	1/4	2,133.41
1/2		1/2	4,980.41	1/2	4,628.14	1/2	4,271.48	1/2	3,914.61	1/2	3,556.91	1/2	3,199.20	1/2	2,841.49	1/2	2,483.76	1/2	2,125.96
3/4		3/4	4,973.98	3/4	4,620.71	3/4	4,264.05	3/4	3,907.16	3/4	3,549.45	3/4	3,191.75	3/4	2,834.04	3/4	2,476.31	3/4	2,118.50
8		8	4,967.55	8	4,613.28	8	4,256.62	8	3,899.71	8	3,542.00	8	3,184.30	8	2,826.59	8	2,468.85	8	2,111.05
1/4		1/4	4,960.27	1/4	4,605.85	1/4	4,249.19	1/4	3,892.25	1/4	3,534.55	1/4	3,176.84	1/4	2,819.14	1/4	2,461.40	1/4	2,103.60
1/2		1/2	4,952.98	1/2	4,598.42	1/2	4,241.76	1/2	3,884.80	1/2	3,527.10	1/2	3,169.39	1/2	2,811.69	1/2	2,453.94	1/2	2,096.14
3/4		3/4	4,945.69	3/4	4,590.99	3/4	4,234.33	3/4	3,877.35	3/4	3,519.64	3/4	3,161.94	3/4	2,804.23	3/4	2,446.49	3/4	2,088.69
9		9	4,938.40	9	4,583.56	9	4,226.90	9	3,869.90	9	3,512.19	9	3,154.49	9	2,796.78	9	2,439.04	9	2,081.23
1/4		1/4	4,931.06	1/4	4,576.13	1/4	4,219.47	1/4	3,862.45	1/4	3,504.74	1/4	3,147.03	1/4	2,789.33	1/4	2,431.58	1/4	2,073.78
1/2		1/2	4,923.71	1/2	4,568.70	1/2	4,212.04	1/2	3,854.99	1/2	3,497.29	1/2	3,139.58	1/2	2,781.88	1/2	2,424.13	1/2	2,066.33
3/4		3/4	4,916.37	3/4	4,561.27	3/4	4,204.61	3/4	3,847.54	3/4	3,489.84	3/4	3,132.13	3/4	2,774.42	3/4	2,416.67	3/4	2,058.87
10		10	4,909.02	10	4,553.84	10	4,197.18	10	3,840.09	10	3,482.38	10	3,124.68	10	2,766.97	10	2,409.22	10	2,051.42
1/4		1/4	4,901.67	1/4	4,546.41	1/4	4,189.75	1/4	3,832.64	1/4	3,474.93	1/4	3,117.23	1/4	2,759.52	1/4	2,401.76	1/4	2,043.96
1/2		1/2	4,894.31	1/2	4,538.98	1/2	4,182.32	1/2	3,825.18	1/2	3,467.48	1/2	3,109.77	1/2	2,752.07	1/2	2,394.31	1/2	2,036.51
3/4		3/4	4,886.96	3/4	4,531.54	3/4	4,174.89	3/4	3,817.73	3/4	3,460.03	3/4	3,102.32	3/4	2,744.62	3/4	2,386.86	3/4	2,029.05
11		11	4,879.60	11	4,524.11	11	4,167.46	11	3,810.28	11	3,452.57	11	3,094.87	11	2,737.16	11	2,379.40	11	2,021.60
1/4		1/4	4,872.24	1/4	4,516.68	1/4	4,160.03	1/4	3,802.83	1/4	3,445.12	1/4	3,087.42	1/4	2,729.71	1/4	2,371.95	1/4	2,014.15
1/2		1/2	4,864.89	1/2	4,509.25	1/2	4,152.60	1/2	3,795.38	1/2	3,437.67	1/2	3,079.96	1/2	2,722.26	1/2	2,364.49	1/2	2,006.69
3/4		3/4	4,857.53	3/4	4,501.82	3/4	4,145.17	3/4	3,787.92	3/4	3,430.22	3/4	3,072.51	3/4	2,714.81	3/4	2,357.04	3/4	1,999.24

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

1 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,991.78	0	1,633.98	0	1,276.18	0	919.77	0	563.14	0	222.86	0		0		0		0	
1/4	1,984.33	1/4	1,626.53	1/4	1,268.73	1/4	912.38	1/4	555.69	1/4	216.32	1/4		1/4		1/4		1/4	
1/2	1,976.87	1/2	1,619.07	1/2	1,261.27	1/2	904.98	1/2	548.24	1/2	209.79	1/2		1/2		1/2		1/2	
3/4	1,969.42	3/4	1,611.62	3/4	1,253.82	3/4	897.59	3/4	540.79	3/4	203.25	3/4		3/4		3/4		3/4	
1	1,961.97	1	1,604.16	1	1,246.36	1	890.19	1	533.35	1	196.71	1		1		1		1	
1/4	1,954.51	1/4	1,596.71	1/4	1,238.91	1/4	882.80	1/4	525.89	1/4	190.27	1/4		1/4		1/4		1/4	
1/2	1,947.06	1/2	1,589.26	1/2	1,231.45	1/2	875.40	1/2	518.44	1/2	183.82	1/2		1/2		1/2		1/2	
3/4	1,939.60	3/4	1,581.80	3/4	1,224.00	3/4	868.00	3/4	510.98	3/4	177.37	3/4		3/4		3/4		3/4	
2	1,932.15	2	1,574.35	2	1,216.55	2	860.61	2	503.53	2	170.92	2		2		2		2	
1/4	1,924.70	1/4	1,566.89	1/4	1,209.09	1/4	853.21	1/4	496.12	1/4	164.56	1/4		1/4		1/4		1/4	
1/2	1,917.24	1/2	1,559.44	1/2	1,201.64	1/2	845.82	1/2	488.71	1/2	158.20	1/2		1/2		1/2		1/2	
3/4	1,909.79	3/4	1,551.99	3/4	1,194.18	3/4	838.42	3/4	481.30	3/4	151.84	3/4		3/4		3/4		3/4	
3	1,902.33	3	1,544.53	3	1,186.73	3	831.03	3	473.89	3	145.48	3		3		3		3	
1/4	1,894.88	1/4	1,537.08	1/4	1,179.28	1/4	823.63	1/4	466.57	1/4	139.20	1/4		1/4		1/4		1/4	
1/2	1,887.42	1/2	1,529.62	1/2	1,171.82	1/2	816.24	1/2	459.24	1/2	132.93	1/2		1/2		1/2		1/2	
3/4	1,879.97	3/4	1,522.17	3/4	1,164.37	3/4	808.84	3/4	451.92	3/4	126.66	3/4		3/4		3/4		3/4	
4	1,872.52	4	1,514.71	4	1,156.91	4	801.45	4	444.60	4	120.38	4		4		4		4	
1/4	1,865.06	1/4	1,507.26	1/4	1,149.46	1/4	794.04	1/4	437.36	1/4	114.20	1/4		1/4		1/4		1/4	
1/2	1,857.61	1/2	1,499.81	1/2	1,142.00	1/2	786.64	1/2	430.13	1/2	108.01	1/2		1/2		1/2		1/2	
3/4	1,850.15	3/4	1,492.35	3/4	1,134.55	3/4	779.24	3/4	422.89	3/4	101.83	3/4		3/4		3/4		3/4	
5	1,842.70	5	1,484.90	5	1,127.10	5	771.83	5	415.65	5	95.64	5		5		5		5	
1/4	1,835.24	1/4	1,477.44	1/4	1,119.67	1/4	764.38	1/4	408.51	1/4	89.56	1/4		1/4		1/4		1/4	
1/2	1,827.79	1/2	1,469.99	1/2	1,112.25	1/2	756.92	1/2	401.36	1/2	83.47	1/2		1/2		1/2		1/2	
3/4	1,820.34	3/4	1,462.53	3/4	1,104.83	3/4	749.47	3/4	394.21	3/4	77.38	3/4		3/4		3/4		3/4	
6	1,812.88	6	1,455.08	6	1,097.40	6	742.02	6	387.06	6	71.29	6		6		6		6	
1/4	1,805.43	1/4	1,447.63	1/4	1,089.98	1/4	734.56	1/4	380.00	1/4	65.32	1/4		1/4		1/4		1/4	
1/2	1,797.97	1/2	1,440.17	1/2	1,082.56	1/2	727.11	1/2	372.94	1/2	59.34	1/2		1/2		1/2		1/2	
3/4	1,790.52	3/4	1,432.72	3/4	1,075.14	3/4	719.65	3/4	365.88	3/4	53.37	3/4		3/4		3/4		3/4	
7	1,783.07	7	1,425.26	7	1,067.71	7	712.20	7	358.82	7	47.39	7		7		7		7	
1/4	1,775.61	1/4	1,417.81	1/4	1,060.31	1/4	704.75	1/4	351.85	1/4	42.40	1/4		1/4		1/4		1/4	
1/2	1,768.16	1/2	1,410.36	1/2	1,052.90	1/2	697.29	1/2	344.87	1/2	37.41	1/2		1/2		1/2		1/2	
3/4	1,760.70	3/4	1,402.90	3/4	1,045.50	3/4	689.84	3/4	337.90	3/4	32.42	3/4		3/4		3/4		3/4	
8	1,753.25	8	1,395.45	8	1,038.10	8	682.38	8	330.93	8	27.43	8		8		8		8	
1/4	1,745.79	1/4	1,387.99	1/4	1,030.70	1/4	674.93	1/4	324.04	1/4	24.39	1/4		1/4		1/4		1/4	
1/2	1,738.34	1/2	1,380.54	1/2	1,023.31	1/2	667.48	1/2	317.16	1/2	21.35	1/2		1/2		1/2		1/2	
3/4	1,730.89	3/4	1,373.08	3/4	1,015.91	3/4	660.02	3/4	310.27	3/4	18.31	3/4		3/4		3/4		3/4	
9	1,723.43	9	1,365.63	9	1,008.52	9	652.57	9	303.39	9	15.27	9		9		9		9	
1/4	1,715.98	1/4	1,358.18	1/4	1,001.12	1/4	645.11	1/4	296.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,708.52	1/2	1,350.72	1/2	993.72	1/2	637.66	1/2	289.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,701.07	3/4	1,343.27	3/4	986.33	3/4	630.21	3/4	282.99	3/4		3/4		3/4		3/4		3/4	
10	1,693.62	10	1,335.81	10	978.93	10	622.75	10	276.19	10		10		10		10		10	
1/4	1,686.16	1/4	1,328.36	1/4	971.54	1/4	615.30	1/4	269.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,678.71	1/2	1,320.91	1/2	964.14	1/2	607.84	1/2	262.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,671.25	3/4	1,313.45	3/4	956.75	3/4	600.39	3/4	256.06	3/4		3/4		3/4		3/4		3/4	
11	1,663.80	11	1,306.00	11	949.35	11	592.94	11	249.35	11		11		11		11		11	
1/4	1,656.34	1/4	1,298.54	1/4	941.96	1/4	585.49	1/4	242.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,648.89	1/2	1,291.09	1/2	934.56	1/2	578.04	1/2	236.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,641.44	3/4	1,283.63	3/4	927.17	3/4	570.59	3/4	229.48	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

1 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,856.97	0	4,501.47	0	4,145.01	0	3,787.96	0	3,430.44	0	3,072.93	0	2,715.42	0	2,357.84
1/4		1/4		1/4	4,849.62	1/4	4,494.04	1/4	4,137.58	1/4	3,780.51	1/4	3,423.00	1/4	3,065.48	1/4	2,707.97	1/4	2,350.39
1/2		1/2		1/2	4,842.27	1/2	4,486.62	1/2	4,130.16	1/2	3,773.06	1/2	3,415.55	1/2	3,058.03	1/2	2,700.52	1/2	2,342.94
3/4		3/4		3/4	4,834.91	3/4	4,479.19	3/4	4,122.73	3/4	3,765.61	3/4	3,408.10	3/4	3,050.59	3/4	2,693.07	3/4	2,335.49
1		1		1	4,827.56	1	4,471.76	1	4,115.31	1	3,758.17	1	3,400.65	1	3,043.14	1	2,685.62	1	2,328.04
1/4		1/4		1/4	4,820.21	1/4	4,464.34	1/4	4,107.88	1/4	3,750.72	1/4	3,393.20	1/4	3,035.69	1/4	2,678.18	1/4	2,320.59
1/2		1/2		1/2	4,812.85	1/2	4,456.91	1/2	4,100.45	1/2	3,743.27	1/2	3,385.76	1/2	3,028.24	1/2	2,670.73	1/2	2,313.14
3/4		3/4		3/4	4,805.50	3/4	4,449.48	3/4	4,093.03	3/4	3,735.82	3/4	3,378.31	3/4	3,020.79	3/4	2,663.28	3/4	2,305.69
2		2		2	4,798.15	2	4,442.06	2	4,085.60	2	3,728.37	2	3,370.86	2	3,013.35	2	2,655.83	2	2,298.24
1/4		1/4		1/4	4,790.80	1/4	4,434.63	1/4	4,078.17	1/4	3,720.92	1/4	3,363.41	1/4	3,005.90	1/4	2,648.38	1/4	2,290.79
1/2		1/2		1/2	4,783.44	1/2	4,427.21	1/2	4,070.75	1/2	3,713.48	1/2	3,355.96	1/2	2,998.45	1/2	2,640.94	1/2	2,283.34
3/4		3/4		3/4	4,776.09	3/4	4,419.78	3/4	4,063.32	3/4	3,706.03	3/4	3,348.51	3/4	2,991.00	3/4	2,633.49	3/4	2,275.89
3		3		3	4,768.74	3	4,412.35	3	4,055.90	3	3,698.58	3	3,341.07	3	2,983.55	3	2,626.04	3	2,268.44
1/4		1/4		1/4	4,761.38	1/4	4,404.93	1/4	4,048.47	1/4	3,691.13	1/4	3,333.62	1/4	2,976.10	1/4	2,618.59	1/4	2,260.99
1/2		1/2		1/2	4,753.96	1/2	4,397.50	1/2	4,041.04	1/2	3,683.68	1/2	3,326.17	1/2	2,968.66	1/2	2,611.14	1/2	2,253.54
3/4		3/4		3/4	4,746.53	3/4	4,390.07	3/4	4,033.62	3/4	3,676.24	3/4	3,318.72	3/4	2,961.21	3/4	2,603.69	3/4	2,246.09
4		4		4	4,739.11	4	4,382.65	4	4,026.19	4	3,668.79	4	3,311.27	4	2,953.76	4	2,596.25	4	2,238.64
1/4		1/4		1/4	4,731.68	1/4	4,375.22	1/4	4,018.76	1/4	3,661.34	1/4	3,303.83	1/4	2,946.31	1/4	2,588.80	1/4	2,231.19
1/2		1/2		1/2	4,724.25	1/2	4,367.80	1/2	4,011.34	1/2	3,653.89	1/2	3,296.38	1/2	2,938.86	1/2	2,581.35	1/2	2,223.74
3/4		3/4		3/4	4,716.83	3/4	4,360.37	3/4	4,003.91	3/4	3,646.44	3/4	3,288.93	3/4	2,931.42	3/4	2,573.90	3/4	2,216.29
5		5		5	4,709.40	5	4,352.94	5	3,996.49	5	3,638.99	5	3,281.48	5	2,923.97	5	2,566.45	5	2,208.84
1/4		1/4		1/4	4,701.97	1/4	4,345.52	1/4	3,989.06	1/4	3,631.55	1/4	3,274.03	1/4	2,916.52	1/4	2,559.00	1/4	2,201.39
1/2		1/2		1/2	4,694.55	1/2	4,338.09	1/2	3,981.61	1/2	3,624.10	1/2	3,266.58	1/2	2,909.07	1/2	2,551.55	1/2	2,193.94
3/4		3/4		3/4	4,687.12	3/4	4,330.66	3/4	3,974.16	3/4	3,616.65	3/4	3,259.14	3/4	2,901.62	3/4	2,544.10	3/4	2,186.49
6		6		6	4,679.70	6	4,323.24	6	3,966.72	6	3,609.20	6	3,251.69	6	2,894.17	6	2,536.65	6	2,179.04
1/4		1/4	5,013.36	1/4	4,672.27	1/4	4,315.81	1/4	3,959.27	1/4	3,601.75	1/4	3,244.24	1/4	2,886.73	1/4	2,529.20	1/4	2,171.59
1/2		1/2	5,008.18	1/2	4,664.84	1/2	4,308.39	1/2	3,951.82	1/2	3,594.31	1/2	3,236.79	1/2	2,879.28	1/2	2,521.75	1/2	2,164.14
3/4		3/4	5,003.00	3/4	4,657.42	3/4	4,300.96	3/4	3,944.37	3/4	3,586.86	3/4	3,229.34	3/4	2,871.83	3/4	2,514.30	3/4	2,156.69
7		7	4,997.81	7	4,649.99	7	4,293.53	7	3,936.92	7	3,579.41	7	3,221.90	7	2,864.38	7	2,506.85	7	2,149.24
1/4		1/4	4,992.63	1/4	4,642.57	1/4	4,286.11	1/4	3,929.47	1/4	3,571.96	1/4	3,214.45	1/4	2,856.93	1/4	2,499.40	1/4	2,141.79
1/2		1/2	4,986.21	1/2	4,635.14	1/2	4,278.68	1/2	3,922.03	1/2	3,564.51	1/2	3,207.00	1/2	2,849.49	1/2	2,491.95	1/2	2,134.34
3/4		3/4	4,979.79	3/4	4,627.71	3/4	4,271.26	3/4	3,914.58	3/4	3,557.06	3/4	3,199.55	3/4	2,842.04	3/4	2,484.50	3/4	2,126.89
8		8	4,973.36	8	4,620.29	8	4,263.83	8	3,907.13	8	3,549.62	8	3,192.10	8	2,834.59	8	2,477.05	8	2,119.44
1/4		1/4	4,966.94	1/4	4,612.86	1/4	4,256.40	1/4	3,899.68	1/4	3,542.17	1/4	3,184.65	1/4	2,827.14	1/4	2,469.59	1/4	2,111.99
1/2		1/2	4,959.65	1/2	4,605.43	1/2	4,248.98	1/2	3,892.23	1/2	3,534.72	1/2	3,177.21	1/2	2,819.69	1/2	2,462.14	1/2	2,104.54
3/4		3/4	4,952.37	3/4	4,598.01	3/4	4,241.55	3/4	3,884.78	3/4	3,527.27	3/4	3,169.76	3/4	2,812.24	3/4	2,454.69	3/4	2,097.08
9		9	4,945.09	9	4,590.58	9	4,234.12	9	3,877.34	9	3,519.82	9	3,162.31	9	2,804.80	9	2,447.24	9	2,089.63
1/4		1/4	4,937.80	1/4	4,583.16	1/4	4,226.70	1/4	3,869.89	1/4	3,512.37	1/4	3,154.86	1/4	2,797.35	1/4	2,439.79	1/4	2,082.18
1/2		1/2	4,930.46	1/2	4,575.73	1/2	4,219.27	1/2	3,862.44	1/2	3,504.93	1/2	3,147.41	1/2	2,789.90	1/2	2,432.34	1/2	2,074.73
3/4		3/4	4,923.12	3/4	4,568.30	3/4	4,211.85	3/4	3,854.99	3/4	3,497.48	3/4	3,139.96	3/4	2,782.45	3/4	2,424.89	3/4	2,067.28
10		10	4,915.78	10	4,560.88	10	4,204.42	10	3,847.54	10	3,490.03	10	3,132.52	10	2,775.00	10	2,417.44	10	2,059.83
1/4		1/4	4,908.44	1/4	4,553.45	1/4	4,196.99	1/4	3,840.10	1/4	3,482.58	1/4	3,125.07	1/4	2,767.55	1/4	2,409.99	1/4	2,052.38
1/2		1/2	4,901.09	1/2	4,546.02	1/2	4,189.57	1/2	3,832.65	1/2	3,475.13	1/2	3,117.62	1/2	2,760.11	1/2	2,402.54	1/2	2,044.93
3/4		3/4	4,893.74	3/4	4,538.60	3/4	4,182.14	3/4	3,825.20	3/4	3,467.69	3/4	3,110.17	3/4	2,752.66	3/4	2,395.09	3/4	2,037.48
11		11	4,886.39	11	4,531.17	11	4,174.71	11	3,817.75	11	3,460.24	11	3,102.72	11	2,745.21	11	2,387.64	11	2,030.03
1/4		1/4	4,879.04	1/4	4,523.75	1/4	4,167.29	1/4	3,810.30	1/4	3,452.79	1/4	3,095.28	1/4	2,737.76	1/4	2,380.19	1/4	2,022.58
1/2		1/2	4,871.68	1/2	4,516.32	1/2	4,159.86	1/2	3,802.85	1/2	3,445.34	1/2	3,087.83	1/2	2,730.31	1/2	2,372.74	1/2	2,015.13
3/4		3/4	4,864.33	3/4	4,508.89	3/4	4,152.44	3/4	3,795.41	3/4	3,437.89	3/4	3,080.38	3/4	2,722.87	3/4	2,365.29	3/4	2,007.68

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

1 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,000.23	0	1,642.62	0	1,285.01	0	927.66	0	570.29	0	229.34	0		0		0		0	
1/4	1,992.78	1/4	1,635.17	1/4	1,277.56	1/4	920.23	1/4	562.84	1/4	222.72	1/4		1/4		1/4		1/4	
1/2	1,985.33	1/2	1,627.72	1/2	1,270.11	1/2	912.79	1/2	555.39	1/2	216.19	1/2		1/2		1/2		1/2	
3/4	1,977.88	3/4	1,620.27	3/4	1,262.66	3/4	905.35	3/4	547.94	3/4	209.66	3/4		3/4		3/4		3/4	
1	1,970.43	1	1,612.82	1	1,255.21	1	897.92	1	540.49	1	203.13	1		1		1		1	
1/4	1,962.98	1/4	1,605.37	1/4	1,247.76	1/4	890.48	1/4	533.04	1/4	196.60	1/4		1/4		1/4		1/4	
1/2	1,955.53	1/2	1,597.92	1/2	1,240.31	1/2	883.04	1/2	525.59	1/2	190.15	1/2		1/2		1/2		1/2	
3/4	1,948.08	3/4	1,590.47	3/4	1,232.86	3/4	875.61	3/4	518.14	3/4	183.71	3/4		3/4		3/4		3/4	
2	1,940.63	2	1,583.02	2	1,225.41	2	868.17	2	510.69	2	177.26	2		2		2		2	
1/4	1,933.18	1/4	1,575.57	1/4	1,217.96	1/4	860.74	1/4	503.24	1/4	170.82	1/4		1/4		1/4		1/4	
1/2	1,925.73	1/2	1,568.12	1/2	1,210.51	1/2	853.30	1/2	495.83	1/2	164.46	1/2		1/2		1/2		1/2	
3/4	1,918.28	3/4	1,560.67	3/4	1,203.06	3/4	845.86	3/4	488.43	3/4	158.10	3/4		3/4		3/4		3/4	
3	1,910.83	3	1,553.22	3	1,195.61	3	838.43	3	481.02	3	151.75	3		3		3		3	
1/4	1,903.38	1/4	1,545.77	1/4	1,188.16	1/4	830.99	1/4	473.61	1/4	145.39	1/4		1/4		1/4		1/4	
1/2	1,895.93	1/2	1,538.32	1/2	1,180.71	1/2	823.56	1/2	466.29	1/2	139.12	1/2		1/2		1/2		1/2	
3/4	1,888.48	3/4	1,530.87	3/4	1,173.26	3/4	816.12	3/4	458.98	3/4	132.85	3/4		3/4		3/4		3/4	
4	1,881.03	4	1,523.42	4	1,165.81	4	808.68	4	451.66	4	126.58	4		4		4		4	
1/4	1,873.58	1/4	1,515.97	1/4	1,158.36	1/4	801.25	1/4	444.34	1/4	120.31	1/4		1/4		1/4		1/4	
1/2	1,866.13	1/2	1,508.52	1/2	1,150.91	1/2	793.80	1/2	437.11	1/2	114.13	1/2		1/2		1/2		1/2	
3/4	1,858.68	3/4	1,501.07	3/4	1,143.46	3/4	786.35	3/4	429.87	3/4	107.95	3/4		3/4		3/4		3/4	
5	1,851.23	5	1,493.62	5	1,136.01	5	778.90	5	422.64	5	101.77	5		5		5		5	
1/4	1,843.78	1/4	1,486.17	1/4	1,128.56	1/4	771.45	1/4	415.41	1/4	95.59	1/4		1/4		1/4		1/4	
1/2	1,836.33	1/2	1,478.72	1/2	1,121.11	1/2	764.00	1/2	408.27	1/2	89.50	1/2		1/2		1/2		1/2	
3/4	1,828.88	3/4	1,471.27	3/4	1,113.66	3/4	756.55	3/4	401.12	3/4	83.42	3/4		3/4		3/4		3/4	
6	1,821.43	6	1,463.82	6	1,106.21	6	749.10	6	393.98	6	77.34	6		6		6		6	
1/4	1,813.98	1/4	1,456.37	1/4	1,098.76	1/4	741.65	1/4	386.84	1/4	71.25	1/4		1/4		1/4		1/4	
1/2	1,806.53	1/2	1,448.92	1/2	1,091.31	1/2	734.20	1/2	379.78	1/2	65.28	1/2		1/2		1/2		1/2	
3/4	1,799.08	3/4	1,441.47	3/4	1,083.87	3/4	726.75	3/4	372.72	3/4	59.31	3/4		3/4		3/4		3/4	
7	1,791.63	7	1,434.02	7	1,076.42	7	719.30	7	365.67	7	53.34	7		7		7		7	
1/4	1,784.18	1/4	1,426.57	1/4	1,068.98	1/4	711.85	1/4	358.61	1/4	47.37	1/4		1/4		1/4		1/4	
1/2	1,776.73	1/2	1,419.12	1/2	1,061.54	1/2	704.40	1/2	351.64	1/2	42.38	1/2		1/2		1/2		1/2	
3/4	1,769.28	3/4	1,411.67	3/4	1,054.09	3/4	696.94	3/4	344.67	3/4	37.40	3/4		3/4		3/4		3/4	
8	1,761.83	8	1,404.22	8	1,046.65	8	689.49	8	337.70	8	32.41	8		8		8		8	
1/4	1,754.38	1/4	1,396.77	1/4	1,039.20	1/4	682.04	1/4	330.73	1/4	27.42	1/4		1/4		1/4		1/4	
1/2	1,746.93	1/2	1,389.32	1/2	1,031.77	1/2	674.59	1/2	323.85	1/2	24.38	1/2		1/2		1/2		1/2	
3/4	1,739.48	3/4	1,381.87	3/4	1,024.33	3/4	667.14	3/4	316.97	3/4	21.34	3/4		3/4		3/4		3/4	
9	1,732.03	9	1,374.42	9	1,016.89	9	659.69	9	310.09	9	18.31	9		9		9		9	
1/4	1,724.57	1/4	1,366.97	1/4	1,009.46	1/4	652.24	1/4	303.21	1/4	15.27	1/4		1/4		1/4		1/4	
1/2	1,717.12	1/2	1,359.52	1/2	1,002.02	1/2	644.79	1/2	296.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,709.67	3/4	1,352.06	3/4	994.59	3/4	637.34	3/4	289.62	3/4		3/4		3/4		3/4		3/4	
10	1,702.22	10	1,344.61	10	987.15	10	629.89	10	282.82	10		10		10		10		10	
1/4	1,694.77	1/4	1,337.16	1/4	979.71	1/4	622.44	1/4	276.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,687.32	1/2	1,329.71	1/2	972.28	1/2	614.99	1/2	269.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,679.87	3/4	1,322.26	3/4	964.84	3/4	607.54	3/4	262.61	3/4		3/4		3/4		3/4		3/4	
11	1,672.42	11	1,314.81	11	957.41	11	600.09	11	255.91	11		11		11		11		11	
1/4	1,664.97	1/4	1,307.36	1/4	949.97	1/4	592.64	1/4	249.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,657.52	1/2	1,299.91	1/2	942.53	1/2	585.19	1/2	242.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,650.07	3/4	1,292.46	3/4	935.10	3/4	577.74	3/4	235.96	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

2 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,914.46	0	4,557.61	0	4,199.97	0	3,841.71	0	3,483.01	0	3,124.31	0	2,765.62	0	2,406.92
1/4		1/4		1/4	4,907.08	1/4	4,550.16	1/4	4,192.52	1/4	3,834.24	1/4	3,475.54	1/4	3,116.84	1/4	2,758.14	1/4	2,399.44
1/2		1/2		1/2	4,899.69	1/2	4,542.71	1/2	4,185.07	1/2	3,826.77	1/2	3,468.07	1/2	3,109.37	1/2	2,750.67	1/2	2,391.97
3/4		3/4		3/4	4,892.31	3/4	4,535.26	3/4	4,177.62	3/4	3,819.29	3/4	3,460.60	3/4	3,101.90	3/4	2,743.20	3/4	2,384.50
1		1		1	4,884.92	1	4,527.81	1	4,170.17	1	3,811.82	1	3,453.12	1	3,094.42	1	2,735.72	1	2,377.02
1/4		1/4		1/4	4,877.53	1/4	4,520.35	1/4	4,162.72	1/4	3,804.35	1/4	3,445.65	1/4	3,086.95	1/4	2,728.25	1/4	2,369.55
1/2		1/2		1/2	4,870.15	1/2	4,512.90	1/2	4,155.27	1/2	3,796.88	1/2	3,438.18	1/2	3,079.48	1/2	2,720.78	1/2	2,362.08
3/4		3/4		3/4	4,862.76	3/4	4,505.45	3/4	4,147.81	3/4	3,789.40	3/4	3,430.70	3/4	3,072.00	3/4	2,713.31	3/4	2,354.61
2		2		2	4,855.38	2	4,498.00	2	4,140.36	2	3,781.93	2	3,423.23	2	3,064.53	2	2,705.83	2	2,347.13
1/4		1/4		1/4	4,847.99	1/4	4,490.55	1/4	4,132.91	1/4	3,774.46	1/4	3,415.76	1/4	3,057.06	1/4	2,698.36	1/4	2,339.66
1/2		1/2		1/2	4,840.61	1/2	4,483.10	1/2	4,125.46	1/2	3,766.98	1/2	3,408.29	1/2	3,049.59	1/2	2,690.89	1/2	2,332.19
3/4		3/4		3/4	4,833.22	3/4	4,475.65	3/4	4,118.01	3/4	3,759.51	3/4	3,400.81	3/4	3,042.11	3/4	2,683.41	3/4	2,324.71
3		3		3	4,825.84	3	4,468.20	3	4,110.56	3	3,752.04	3	3,393.34	3	3,034.64	3	2,675.94	3	2,317.24
1/4		1/4		1/4	4,818.39	1/4	4,460.75	1/4	4,103.11	1/4	3,744.57	1/4	3,385.87	1/4	3,027.17	1/4	2,668.47	1/4	2,309.77
1/2		1/2		1/2	4,810.94	1/2	4,453.30	1/2	4,095.66	1/2	3,737.09	1/2	3,378.39	1/2	3,019.69	1/2	2,661.00	1/2	2,302.30
3/4		3/4		3/4	4,803.49	3/4	4,445.85	3/4	4,088.21	3/4	3,729.62	3/4	3,370.92	3/4	3,012.22	3/4	2,653.52	3/4	2,294.82
4		4		4	4,796.03	4	4,438.40	4	4,080.76	4	3,722.15	4	3,363.45	4	3,004.75	4	2,646.05	4	2,287.35
1/4		1/4		1/4	4,788.58	1/4	4,430.95	1/4	4,073.31	1/4	3,714.67	1/4	3,355.97	1/4	2,997.28	1/4	2,638.58	1/4	2,279.88
1/2		1/2		1/2	4,781.13	1/2	4,423.49	1/2	4,065.86	1/2	3,707.20	1/2	3,348.50	1/2	2,989.80	1/2	2,631.10	1/2	2,272.40
3/4		3/4		3/4	4,773.68	3/4	4,416.04	3/4	4,058.41	3/4	3,699.73	3/4	3,341.03	3/4	2,982.33	3/4	2,623.63	3/4	2,264.93
5		5		5	4,766.23	5	4,408.59	5	4,050.95	5	3,692.26	5	3,333.56	5	2,974.86	5	2,616.16	5	2,257.46
1/4		1/4		1/4	4,758.78	1/4	4,401.14	1/4	4,043.48	1/4	3,684.78	1/4	3,326.08	1/4	2,967.38	1/4	2,608.68	1/4	2,249.99
1/2		1/2		1/2	4,751.33	1/2	4,393.69	1/2	4,036.01	1/2	3,677.31	1/2	3,318.61	1/2	2,959.91	1/2	2,601.21	1/2	2,242.51
3/4		3/4		3/4	4,743.88	3/4	4,386.24	3/4	4,028.54	3/4	3,669.84	3/4	3,311.14	3/4	2,952.44	3/4	2,593.74	3/4	2,235.04
6		6	5,078.89	6	4,736.43	6	4,378.79	6	4,021.06	6	3,662.36	6	3,303.66	6	2,944.97	6	2,586.27	6	2,227.57
1/4		1/4	5,073.68	1/4	4,728.98	1/4	4,371.34	1/4	4,013.59	1/4	3,654.89	1/4	3,296.19	1/4	2,937.49	1/4	2,578.79	1/4	2,220.09
1/2		1/2	5,068.48	1/2	4,721.53	1/2	4,363.89	1/2	4,006.12	1/2	3,647.42	1/2	3,288.72	1/2	2,930.02	1/2	2,571.32	1/2	2,212.62
3/4		3/4	5,063.27	3/4	4,714.08	3/4	4,356.44	3/4	3,998.64	3/4	3,639.94	3/4	3,281.25	3/4	2,922.55	3/4	2,563.85	3/4	2,205.15
7		7	5,058.07	7	4,706.62	7	4,348.99	7	3,991.17	7	3,632.47	7	3,273.77	7	2,915.07	7	2,556.37	7	2,197.68
1/4		1/4	5,051.62	1/4	4,699.17	1/4	4,341.54	1/4	3,983.70	1/4	3,625.00	1/4	3,266.30	1/4	2,907.60	1/4	2,548.90	1/4	2,190.20
1/2		1/2	5,045.17	1/2	4,691.72	1/2	4,334.08	1/2	3,976.23	1/2	3,617.53	1/2	3,258.83	1/2	2,900.13	1/2	2,541.43	1/2	2,182.73
3/4		3/4	5,038.72	3/4	4,684.27	3/4	4,326.63	3/4	3,968.75	3/4	3,610.05	3/4	3,251.35	3/4	2,892.65	3/4	2,533.96	3/4	2,175.26
8		8	5,032.27	8	4,676.82	8	4,319.18	8	3,961.28	8	3,602.58	8	3,243.88	8	2,885.18	8	2,526.48	8	2,167.78
1/4		1/4	5,024.95	1/4	4,669.37	1/4	4,311.73	1/4	3,953.81	1/4	3,595.11	1/4	3,236.41	1/4	2,877.71	1/4	2,519.01	1/4	2,160.31
1/2		1/2	5,017.64	1/2	4,661.92	1/2	4,304.28	1/2	3,946.33	1/2	3,587.63	1/2	3,228.94	1/2	2,870.24	1/2	2,511.54	1/2	2,152.84
3/4		3/4	5,010.32	3/4	4,654.47	3/4	4,296.83	3/4	3,938.86	3/4	3,580.16	3/4	3,221.46	3/4	2,862.76	3/4	2,504.06	3/4	2,145.36
9		9	5,003.01	9	4,647.02	9	4,289.38	9	3,931.39	9	3,572.69	9	3,213.99	9	2,855.29	9	2,496.59	9	2,137.89
1/4		1/4	4,995.64	1/4	4,639.57	1/4	4,281.93	1/4	3,923.92	1/4	3,565.22	1/4	3,206.52	1/4	2,847.82	1/4	2,489.12	1/4	2,130.42
1/2		1/2	4,988.27	1/2	4,632.12	1/2	4,274.48	1/2	3,916.44	1/2	3,557.74	1/2	3,199.04	1/2	2,840.34	1/2	2,481.65	1/2	2,122.95
3/4		3/4	4,980.90	3/4	4,624.67	3/4	4,267.03	3/4	3,908.97	3/4	3,550.27	3/4	3,191.57	3/4	2,832.87	3/4	2,474.17	3/4	2,115.47
10		10	4,973.53	10	4,617.22	10	4,259.58	10	3,901.50	10	3,542.80	10	3,184.10	10	2,825.40	10	2,466.70	10	2,108.00
1/4		1/4	4,966.15	1/4	4,609.76	1/4	4,252.13	1/4	3,894.02	1/4	3,535.32	1/4	3,176.63	1/4	2,817.93	1/4	2,459.23	1/4	2,100.53
1/2		1/2	4,958.76	1/2	4,602.31	1/2	4,244.68	1/2	3,886.55	1/2	3,527.85	1/2	3,169.15	1/2	2,810.45	1/2	2,451.75	1/2	2,093.05
3/4		3/4	4,951.38	3/4	4,594.86	3/4	4,237.22	3/4	3,879.08	3/4	3,520.38	3/4	3,161.68	3/4	2,802.98	3/4	2,444.28	3/4	2,085.58
11		11	4,944.00	11	4,587.41	11	4,229.77	11	3,871.60	11	3,512.91	11	3,154.21	11	2,795.51	11	2,436.81	11	2,078.11
1/4		1/4	4,936.62	1/4	4,579.96	1/4	4,222.32	1/4	3,864.13	1/4	3,505.43	1/4	3,146.73	1/4	2,788.03	1/4	2,429.34	1/4	2,070.64
1/2		1/2	4,929.23	1/2	4,572.51	1/2	4,214.87	1/2	3,856.66	1/2	3,497.96	1/2	3,139.26	1/2	2,780.56	1/2	2,421.86	1/2	2,063.16
3/4		3/4	4,921.85	3/4	4,565.06	3/4	4,207.42	3/4	3,849.19	3/4	3,490.49	3/4	3,131.79	3/4	2,773.09	3/4	2,414.39	3/4	2,055.69

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

2 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,048.22	0	1,689.52	0	1,330.82	0	980.54	0	627.88	0	269.19	0		0		0		0	
1/4	2,040.74	1/4	1,682.05	1/4	1,323.35	1/4	973.38	1/4	620.41	1/4	261.71	1/4		1/4		1/4		1/4	
1/2	2,033.27	1/2	1,674.57	1/2	1,315.87	1/2	966.21	1/2	612.94	1/2	254.24	1/2		1/2		1/2		1/2	
3/4	2,025.80	3/4	1,667.10	3/4	1,308.40	3/4	959.04	3/4	605.46	3/4	246.77	3/4		3/4		3/4		3/4	
1	2,018.33	1	1,659.63	1	1,300.93	1	951.88	1	597.99	1	239.30	1		1		1		1	
1/4	2,010.85	1/4	1,652.15	1/4	1,293.45	1/4	944.71	1/4	590.52	1/4	231.82	1/4		1/4		1/4		1/4	
1/2	2,003.38	1/2	1,644.68	1/2	1,285.98	1/2	937.55	1/2	583.04	1/2	224.35	1/2		1/2		1/2		1/2	
3/4	1,995.91	3/4	1,637.21	3/4	1,278.51	3/4	930.38	3/4	575.57	3/4	216.88	3/4		3/4		3/4		3/4	
2	1,988.43	2	1,629.73	2	1,271.04	2	923.21	2	568.10	2	209.40	2		2		2		2	
1/4	1,980.96	1/4	1,622.26	1/4	1,263.56	1/4	916.05	1/4	560.63	1/4	201.93	1/4		1/4		1/4		1/4	
1/2	1,973.49	1/2	1,614.79	1/2	1,256.09	1/2	908.88	1/2	553.15	1/2	194.46	1/2		1/2		1/2		1/2	
3/4	1,966.02	3/4	1,607.32	3/4	1,248.62	3/4	901.71	3/4	545.68	3/4	186.99	3/4		3/4		3/4		3/4	
3	1,958.54	3	1,599.84	3	1,241.14	3	894.55	3	538.21	3	179.51	3		3		3		3	
1/4	1,951.07	1/4	1,592.37	1/4	1,233.67	1/4	887.38	1/4	530.73	1/4	172.04	1/4		1/4		1/4		1/4	
1/2	1,943.60	1/2	1,584.90	1/2	1,226.20	1/2	880.22	1/2	523.26	1/2	164.57	1/2		1/2		1/2		1/2	
3/4	1,936.12	3/4	1,577.42	3/4	1,218.73	3/4	873.05	3/4	515.79	3/4	157.09	3/4		3/4		3/4		3/4	
4	1,928.65	4	1,569.95	4	1,211.25	4	865.88	4	508.32	4	149.62	4		4		4		4	
1/4	1,921.18	1/4	1,562.48	1/4	1,203.78	1/4	858.69	1/4	500.84	1/4	142.15	1/4		1/4		1/4		1/4	
1/2	1,913.70	1/2	1,555.01	1/2	1,196.31	1/2	851.50	1/2	493.37	1/2	134.68	1/2		1/2		1/2		1/2	
3/4	1,906.23	3/4	1,547.53	3/4	1,188.83	3/4	844.31	3/4	485.90	3/4	127.21	3/4		3/4		3/4		3/4	
5	1,898.76	5	1,540.06	5	1,181.36	5	837.12	5	478.42	5	119.74	5		5		5		5	
1/4	1,891.29	1/4	1,532.59	1/4	1,174.17	1/4	829.65	1/4	470.95	1/4	112.27	1/4		1/4		1/4		1/4	
1/2	1,883.81	1/2	1,525.11	1/2	1,166.98	1/2	822.17	1/2	463.48	1/2	104.81	1/2		1/2		1/2		1/2	
3/4	1,876.34	3/4	1,517.64	3/4	1,159.79	3/4	814.70	3/4	456.01	3/4	97.35	3/4		3/4		3/4		3/4	
6	1,868.87	6	1,510.17	6	1,152.60	6	807.23	6	448.53	6	89.89	6		6		6		6	
1/4	1,861.39	1/4	1,502.70	1/4	1,145.42	1/4	799.76	1/4	441.06	1/4	82.45	1/4		1/4		1/4		1/4	
1/2	1,853.92	1/2	1,495.22	1/2	1,138.25	1/2	792.28	1/2	433.59	1/2	75.01	1/2		1/2		1/2		1/2	
3/4	1,846.45	3/4	1,487.75	3/4	1,131.07	3/4	784.81	3/4	426.12	3/4	67.58	3/4		3/4		3/4		3/4	
7	1,838.98	7	1,480.28	7	1,123.90	7	777.34	7	418.64	7	60.14	7		7		7		7	
1/4	1,831.50	1/4	1,472.80	1/4	1,116.73	1/4	769.86	1/4	411.17	1/4	53.60	1/4		1/4		1/4		1/4	
1/2	1,824.03	1/2	1,465.33	1/2	1,109.55	1/2	762.39	1/2	403.70	1/2	47.07	1/2		1/2		1/2		1/2	
3/4	1,816.56	3/4	1,457.86	3/4	1,102.38	3/4	754.92	3/4	396.22	3/4	40.53	3/4		3/4		3/4		3/4	
8	1,809.08	8	1,450.39	8	1,095.20	8	747.45	8	388.75	8	33.99	8		8		8		8	
1/4	1,801.61	1/4	1,442.91	1/4	1,088.04	1/4	739.97	1/4	381.28	1/4	29.32	1/4		1/4		1/4		1/4	
1/2	1,794.14	1/2	1,435.44	1/2	1,080.87	1/2	732.50	1/2	373.81	1/2	24.65	1/2		1/2		1/2		1/2	
3/4	1,786.67	3/4	1,427.97	3/4	1,073.70	3/4	725.03	3/4	366.33	3/4	19.98	3/4		3/4		3/4		3/4	
9	1,779.19	9	1,420.49	9	1,066.54	9	717.55	9	358.86	9	15.31	9		9		9		9	
1/4	1,771.72	1/4	1,413.02	1/4	1,059.37	1/4	710.08	1/4	351.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.25	1/2	1,405.55	1/2	1,052.21	1/2	702.61	1/2	343.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,756.77	3/4	1,398.07	3/4	1,045.04	3/4	695.14	3/4	336.44	3/4		3/4		3/4		3/4		3/4	
10	1,749.30	10	1,390.60	10	1,037.87	10	687.66	10	328.97	10		10		10		10		10	
1/4	1,741.83	1/4	1,383.13	1/4	1,030.71	1/4	680.19	1/4	321.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.36	1/2	1,375.66	1/2	1,023.54	1/2	672.72	1/2	314.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,726.88	3/4	1,368.18	3/4	1,016.37	3/4	665.24	3/4	306.55	3/4		3/4		3/4		3/4		3/4	
11	1,719.41	11	1,360.71	11	1,009.21	11	657.77	11	299.08	11		11		11		11		11	
1/4	1,711.94	1/4	1,353.24	1/4	1,002.04	1/4	650.30	1/4	291.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,704.46	1/2	1,345.76	1/2	994.88	1/2	642.83	1/2	284.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,696.99	3/4	1,338.29	3/4	987.71	3/4	635.35	3/4	276.66	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

2 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,929.49	0	4,572.69	0	4,215.01	0	3,856.72	0	3,497.99	0	3,139.27	0	2,780.55	0	2,421.75
1/4		1/4		1/4	4,922.11	1/4	4,565.24	1/4	4,207.56	1/4	3,849.24	1/4	3,490.52	1/4	3,131.80	1/4	2,773.07	1/4	2,414.28
1/2		1/2		1/2	4,914.74	1/2	4,557.79	1/2	4,200.10	1/2	3,841.77	1/2	3,483.05	1/2	3,124.32	1/2	2,765.60	1/2	2,406.80
3/4		3/4		3/4	4,907.36	3/4	4,550.33	3/4	4,192.65	3/4	3,834.30	3/4	3,475.57	3/4	3,116.85	3/4	2,758.13	3/4	2,399.33
1		1		1	4,899.98	1	4,542.88	1	4,185.20	1	3,826.82	1	3,468.10	1	3,109.38	1	2,750.65	1	2,391.85
1/4		1/4		1/4	4,892.60	1/4	4,535.43	1/4	4,177.75	1/4	3,819.35	1/4	3,460.63	1/4	3,101.90	1/4	2,743.18	1/4	2,384.38
1/2		1/2		1/2	4,885.22	1/2	4,527.98	1/2	4,170.30	1/2	3,811.88	1/2	3,453.15	1/2	3,094.43	1/2	2,735.71	1/2	2,376.90
3/4		3/4		3/4	4,877.84	3/4	4,520.53	3/4	4,162.84	3/4	3,804.40	3/4	3,445.68	3/4	3,086.96	3/4	2,728.23	3/4	2,369.43
2		2		2	4,870.46	2	4,513.07	2	4,155.39	2	3,796.93	2	3,438.21	2	3,079.48	2	2,720.76	2	2,361.95
1/4		1/4		1/4	4,863.09	1/4	4,505.62	1/4	4,147.94	1/4	3,789.46	1/4	3,430.73	1/4	3,072.01	1/4	2,713.29	1/4	2,354.47
1/2		1/2		1/2	4,855.71	1/2	4,498.17	1/2	4,140.49	1/2	3,781.98	1/2	3,423.26	1/2	3,064.54	1/2	2,705.81	1/2	2,347.00
3/4		3/4		3/4	4,848.33	3/4	4,490.72	3/4	4,133.04	3/4	3,774.51	3/4	3,415.79	3/4	3,057.06	3/4	2,698.34	3/4	2,339.52
3		3		3	4,840.95	3	4,483.27	3	4,125.59	3	3,767.04	3	3,408.31	3	3,049.59	3	2,690.87	3	2,332.05
1/4		1/4		1/4	4,833.50	1/4	4,475.82	1/4	4,118.13	1/4	3,759.56	1/4	3,400.84	1/4	3,042.12	1/4	2,683.39	1/4	2,324.57
1/2		1/2		1/2	4,826.05	1/2	4,468.36	1/2	4,110.68	1/2	3,752.09	1/2	3,393.37	1/2	3,034.64	1/2	2,675.92	1/2	2,317.10
3/4		3/4		3/4	4,818.59	3/4	4,460.91	3/4	4,103.23	3/4	3,744.62	3/4	3,385.89	3/4	3,027.17	3/4	2,668.45	3/4	2,309.62
4		4		4	4,811.14	4	4,453.46	4	4,095.78	4	3,737.14	4	3,378.42	4	3,019.70	4	2,660.97	4	2,302.14
1/4		1/4		1/4	4,803.69	1/4	4,446.01	1/4	4,088.33	1/4	3,729.67	1/4	3,370.95	1/4	3,012.22	1/4	2,653.50	1/4	2,294.67
1/2		1/2		1/2	4,796.24	1/2	4,438.56	1/2	4,080.88	1/2	3,722.20	1/2	3,363.47	1/2	3,004.75	1/2	2,646.02	1/2	2,287.19
3/4		3/4		3/4	4,788.79	3/4	4,431.11	3/4	4,073.42	3/4	3,714.72	3/4	3,356.00	3/4	2,997.28	3/4	2,638.55	3/4	2,279.72
5		5		5	4,781.34	5	4,423.65	5	4,065.97	5	3,707.25	5	3,348.53	5	2,989.80	5	2,631.07	5	2,272.24
1/4		1/4		1/4	4,773.88	1/4	4,416.20	1/4	4,058.50	1/4	3,699.78	1/4	3,341.05	1/4	2,982.33	1/4	2,623.60	1/4	2,264.77
1/2		1/2		1/2	4,766.43	1/2	4,408.75	1/2	4,051.03	1/2	3,692.30	1/2	3,333.58	1/2	2,974.86	1/2	2,616.12	1/2	2,257.29
3/4		3/4		3/4	4,758.98	3/4	4,401.30	3/4	4,043.55	3/4	3,684.83	3/4	3,326.11	3/4	2,967.38	3/4	2,608.64	3/4	2,249.82
6		6	5,093.81	6	4,751.53	6	4,393.85	6	4,036.08	6	3,677.36	6	3,318.63	6	2,959.91	6	2,601.17	6	2,242.34
1/4		1/4	5,088.61	1/4	4,744.08	1/4	4,386.40	1/4	4,028.61	1/4	3,669.88	1/4	3,311.16	1/4	2,952.44	1/4	2,593.69	1/4	2,234.86
1/2		1/2	5,083.41	1/2	4,736.63	1/2	4,378.94	1/2	4,021.13	1/2	3,662.41	1/2	3,303.69	1/2	2,944.96	1/2	2,586.22	1/2	2,227.39
3/4		3/4	5,078.21	3/4	4,729.17	3/4	4,371.49	3/4	4,013.66	3/4	3,654.94	3/4	3,296.21	3/4	2,937.49	3/4	2,578.74	3/4	2,219.91
7		7	5,073.01	7	4,721.72	7	4,364.04	7	4,006.19	7	3,647.46	7	3,288.74	7	2,930.02	7	2,571.27	7	2,212.44
1/4		1/4	5,066.57	1/4	4,714.27	1/4	4,356.59	1/4	3,998.71	1/4	3,639.99	1/4	3,281.27	1/4	2,922.54	1/4	2,563.79	1/4	2,204.96
1/2		1/2	5,060.12	1/2	4,706.82	1/2	4,349.14	1/2	3,991.24	1/2	3,632.52	1/2	3,273.79	1/2	2,915.07	1/2	2,556.32	1/2	2,197.49
3/4		3/4	5,053.67	3/4	4,699.37	3/4	4,341.69	3/4	3,983.77	3/4	3,625.04	3/4	3,266.32	3/4	2,907.60	3/4	2,548.84	3/4	2,190.01
8		8	5,047.23	8	4,691.92	8	4,334.23	8	3,976.29	8	3,617.57	8	3,258.85	8	2,900.12	8	2,541.36	8	2,182.54
1/4		1/4	5,039.92	1/4	4,684.46	1/4	4,326.78	1/4	3,968.82	1/4	3,610.10	1/4	3,251.37	1/4	2,892.65	1/4	2,533.89	1/4	2,175.06
1/2		1/2	5,032.61	1/2	4,677.01	1/2	4,319.33	1/2	3,961.35	1/2	3,602.62	1/2	3,243.90	1/2	2,885.18	1/2	2,526.41	1/2	2,167.58
3/4		3/4	5,025.30	3/4	4,669.56	3/4	4,311.88	3/4	3,953.87	3/4	3,595.15	3/4	3,236.43	3/4	2,877.70	3/4	2,518.94	3/4	2,160.11
9		9	5,017.99	9	4,662.11	9	4,304.43	9	3,946.40	9	3,587.68	9	3,228.95	9	2,870.23	9	2,511.46	9	2,152.63
1/4		1/4	5,010.62	1/4	4,654.66	1/4	4,296.98	1/4	3,938.93	1/4	3,580.20	1/4	3,221.48	1/4	2,862.76	1/4	2,503.99	1/4	2,145.16
1/2		1/2	5,003.26	1/2	4,647.21	1/2	4,289.52	1/2	3,931.45	1/2	3,572.73	1/2	3,214.01	1/2	2,855.28	1/2	2,496.51	1/2	2,137.68
3/4		3/4	4,995.89	3/4	4,639.75	3/4	4,282.07	3/4	3,923.98	3/4	3,565.26	3/4	3,206.53	3/4	2,847.81	3/4	2,489.03	3/4	2,130.21
10		10	4,988.53	10	4,632.30	10	4,274.62	10	3,916.50	10	3,557.78	10	3,199.06	10	2,840.34	10	2,481.56	10	2,122.73
1/4		1/4	4,981.15	1/4	4,624.85	1/4	4,267.17	1/4	3,909.03	1/4	3,550.31	1/4	3,191.59	1/4	2,832.86	1/4	2,474.08	1/4	2,115.25
1/2		1/2	4,973.77	1/2	4,617.40	1/2	4,259.72	1/2	3,901.56	1/2	3,542.83	1/2	3,184.11	1/2	2,825.39	1/2	2,466.61	1/2	2,107.78
3/4		3/4	4,966.39	3/4	4,609.95	3/4	4,252.27	3/4	3,894.08	3/4	3,535.36	3/4	3,176.64	3/4	2,817.92	3/4	2,459.13	3/4	2,100.30
11		11	4,959.01	11	4,602.50	11	4,244.81	11	3,886.61	11	3,527.89	11	3,169.16	11	2,810.44	11	2,451.66	11	2,092.83
1/4		1/4	4,951.63	1/4	4,595.04	1/4	4,237.36	1/4	3,879.14	1/4	3,520.41	1/4	3,161.69	1/4	2,802.97	1/4	2,444.18	1/4	2,085.35
1/2		1/2	4,944.25	1/2	4,587.59	1/2	4,229.91	1/2	3,871.66	1/2	3,512.94	1/2	3,154.22	1/2	2,795.49	1/2	2,436.71	1/2	2,077.88
3/4		3/4	4,936.87	3/4	4,580.14	3/4	4,222.46	3/4	3,864.19	3/4	3,505.47	3/4	3,146.74	3/4	2,788.02	3/4	2,429.23	3/4	2,070.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

2 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,062.93	0	1,704.10	0	1,345.27	0	986.71	0	628.12	0	269.29	0		0		0		0	
1/4	2,055.45	1/4	1,696.62	1/4	1,337.79	1/4	979.25	1/4	620.64	1/4	261.81	1/4		1/4		1/4		1/4	
1/2	2,047.97	1/2	1,689.15	1/2	1,330.32	1/2	971.79	1/2	613.16	1/2	254.34	1/2		1/2		1/2		1/2	
3/4	2,040.50	3/4	1,681.67	3/4	1,322.84	3/4	964.33	3/4	605.69	3/4	246.86	3/4		3/4		3/4		3/4	
1	2,033.02	1	1,674.19	1	1,315.37	1	956.87	1	598.21	1	239.38	1		1		1		1	
1/4	2,025.55	1/4	1,666.72	1/4	1,307.89	1/4	949.41	1/4	590.74	1/4	231.91	1/4		1/4		1/4		1/4	
1/2	2,018.07	1/2	1,659.24	1/2	1,300.41	1/2	941.95	1/2	583.26	1/2	224.43	1/2		1/2		1/2		1/2	
3/4	2,010.60	3/4	1,651.77	3/4	1,292.94	3/4	934.49	3/4	575.79	3/4	216.96	3/4		3/4		3/4		3/4	
2	2,003.12	2	1,644.29	2	1,285.46	2	927.02	2	568.31	2	209.48	2		2		2		2	
1/4	1,995.65	1/4	1,636.82	1/4	1,277.99	1/4	919.56	1/4	560.83	1/4	202.01	1/4		1/4		1/4		1/4	
1/2	1,988.17	1/2	1,629.34	1/2	1,270.51	1/2	912.10	1/2	553.36	1/2	194.53	1/2		1/2		1/2		1/2	
3/4	1,980.69	3/4	1,621.87	3/4	1,263.04	3/4	904.64	3/4	545.88	3/4	187.05	3/4		3/4		3/4		3/4	
3	1,973.22	3	1,614.39	3	1,255.56	3	897.18	3	538.41	3	179.58	3		3		3		3	
1/4	1,965.74	1/4	1,606.91	1/4	1,248.09	1/4	889.72	1/4	530.93	1/4	172.10	1/4		1/4		1/4		1/4	
1/2	1,958.27	1/2	1,599.44	1/2	1,240.61	1/2	882.26	1/2	523.46	1/2	164.63	1/2		1/2		1/2		1/2	
3/4	1,950.79	3/4	1,591.96	3/4	1,233.13	3/4	874.80	3/4	515.98	3/4	157.15	3/4		3/4		3/4		3/4	
4	1,943.32	4	1,584.49	4	1,225.66	4	867.33	4	508.51	4	149.68	4		4		4		4	
1/4	1,935.84	1/4	1,577.01	1/4	1,218.18	1/4	859.86	1/4	501.03	1/4	142.20	1/4		1/4		1/4		1/4	
1/2	1,928.36	1/2	1,569.54	1/2	1,210.71	1/2	852.38	1/2	493.55	1/2	134.73	1/2		1/2		1/2		1/2	
3/4	1,920.89	3/4	1,562.06	3/4	1,203.23	3/4	844.91	3/4	486.08	3/4	127.25	3/4		3/4		3/4		3/4	
5	1,913.41	5	1,554.58	5	1,195.76	5	837.43	5	478.60	5	119.78	5		5		5		5	
1/4	1,905.94	1/4	1,547.11	1/4	1,188.28	1/4	829.96	1/4	471.13	1/4	112.31	1/4		1/4		1/4		1/4	
1/2	1,898.46	1/2	1,539.63	1/2	1,180.80	1/2	822.48	1/2	463.65	1/2	104.85	1/2		1/2		1/2		1/2	
3/4	1,890.99	3/4	1,532.16	3/4	1,173.33	3/4	815.01	3/4	456.18	3/4	97.38	3/4		3/4		3/4		3/4	
6	1,883.51	6	1,524.68	6	1,165.85	6	807.53	6	448.70	6	89.92	6		6		6		6	
1/4	1,876.04	1/4	1,517.21	1/4	1,158.38	1/4	800.05	1/4	441.23	1/4	82.48	1/4		1/4		1/4		1/4	
1/2	1,868.56	1/2	1,509.73	1/2	1,150.91	1/2	792.58	1/2	433.75	1/2	75.04	1/2		1/2		1/2		1/2	
3/4	1,861.08	3/4	1,502.26	3/4	1,143.44	3/4	785.10	3/4	426.27	3/4	67.60	3/4		3/4		3/4		3/4	
7	1,853.61	7	1,494.78	7	1,135.97	7	777.63	7	418.80	7	60.16	7		7		7		7	
1/4	1,846.13	1/4	1,487.30	1/4	1,128.50	1/4	770.15	1/4	411.32	1/4	53.62	1/4		1/4		1/4		1/4	
1/2	1,838.66	1/2	1,479.83	1/2	1,121.03	1/2	762.68	1/2	403.85	1/2	47.08	1/2		1/2		1/2		1/2	
3/4	1,831.18	3/4	1,472.35	3/4	1,113.56	3/4	755.20	3/4	396.37	3/4	40.54	3/4		3/4		3/4		3/4	
8	1,823.71	8	1,464.88	8	1,106.09	8	747.72	8	388.90	8	34.00	8		8		8		8	
1/4	1,816.23	1/4	1,457.40	1/4	1,098.63	1/4	740.25	1/4	381.42	1/4	29.33	1/4		1/4		1/4		1/4	
1/2	1,808.76	1/2	1,449.93	1/2	1,091.17	1/2	732.77	1/2	373.94	1/2	24.66	1/2		1/2		1/2		1/2	
3/4	1,801.28	3/4	1,442.45	3/4	1,083.71	3/4	725.30	3/4	366.47	3/4	19.99	3/4		3/4		3/4		3/4	
9	1,793.80	9	1,434.98	9	1,076.25	9	717.82	9	358.99	9	15.32	9		9		9		9	
1/4	1,786.33	1/4	1,427.50	1/4	1,068.79	1/4	710.35	1/4	351.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.85	1/2	1,420.02	1/2	1,061.33	1/2	702.87	1/2	344.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,771.38	3/4	1,412.55	3/4	1,053.86	3/4	695.40	3/4	336.57	3/4		3/4		3/4		3/4		3/4	
10	1,763.90	10	1,405.07	10	1,046.40	10	687.92	10	329.09	10		10		10		10		10	
1/4	1,756.43	1/4	1,397.60	1/4	1,038.94	1/4	680.44	1/4	321.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,748.95	1/2	1,390.12	1/2	1,031.48	1/2	672.97	1/2	314.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,741.47	3/4	1,382.65	3/4	1,024.02	3/4	665.49	3/4	306.66	3/4		3/4		3/4		3/4		3/4	
11	1,734.00	11	1,375.17	11	1,016.56	11	658.02	11	299.19	11		11		11		11		11	
1/4	1,726.52	1/4	1,367.69	1/4	1,009.10	1/4	650.54	1/4	291.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,719.05	1/2	1,360.22	1/2	1,001.64	1/2	643.07	1/2	284.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,711.57	3/4	1,352.74	3/4	994.17	3/4	635.59	3/4	276.76	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

3 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,353.87	0	4,135.62	0	3,916.78	0	3,697.61	0	3,464.95	0	3,114.80	0	2,758.50	0	2,402.14
1/4		1/4		1/4	4,349.36	1/4	4,131.06	1/4	3,912.22	1/4	3,693.03	1/4	3,458.75	1/4	3,107.38	1/4	2,751.08	1/4	2,394.71
1/2		1/2		1/2	4,344.84	1/2	4,126.50	1/2	3,907.66	1/2	3,688.46	1/2	3,452.08	1/2	3,099.96	1/2	2,743.66	1/2	2,387.27
3/4		3/4		3/4	4,340.33	3/4	4,121.94	3/4	3,903.11	3/4	3,683.89	3/4	3,445.40	3/4	3,092.53	3/4	2,736.23	3/4	2,379.84
1		1		1	4,335.81	1	4,117.38	1	3,898.55	1	3,679.32	1	3,438.73	1	3,085.11	1	2,728.81	1	2,372.41
1/4		1/4		1/4	4,331.30	1/4	4,112.82	1/4	3,893.99	1/4	3,674.75	1/4	3,432.05	1/4	3,077.69	1/4	2,721.39	1/4	2,364.97
1/2		1/2		1/2	4,326.79	1/2	4,108.27	1/2	3,889.43	1/2	3,670.18	1/2	3,424.90	1/2	3,070.27	1/2	2,713.97	1/2	2,357.54
3/4		3/4		3/4	4,322.27	3/4	4,103.71	3/4	3,884.87	3/4	3,665.60	3/4	3,417.74	3/4	3,062.84	3/4	2,706.54	3/4	2,350.11
2		2		2	4,317.76	2	4,099.15	2	3,880.31	2	3,661.03	2	3,410.59	2	3,055.42	2	2,699.12	2	2,342.67
1/4		1/4		1/4	4,313.24	1/4	4,094.59	1/4	3,875.75	1/4	3,656.46	1/4	3,403.43	1/4	3,048.00	1/4	2,691.70	1/4	2,335.24
1/2		1/2		1/2	4,308.73	1/2	4,090.03	1/2	3,871.19	1/2	3,651.89	1/2	3,396.05	1/2	3,040.57	1/2	2,684.27	1/2	2,327.81
3/4		3/4		3/4	4,304.22	3/4	4,085.47	3/4	3,866.63	3/4	3,647.32	3/4	3,388.67	3/4	3,033.15	3/4	2,676.85	3/4	2,320.37
3		3		3	4,299.70	3	4,080.91	3	3,862.07	3	3,642.75	3	3,381.29	3	3,025.73	3	2,669.43	3	2,312.94
1/4		1/4		1/4	4,295.19	1/4	4,076.35	1/4	3,857.51	1/4	3,638.17	1/4	3,373.91	1/4	3,018.30	1/4	2,662.01	1/4	2,305.51
1/2		1/2		1/2	4,290.63	1/2	4,071.79	1/2	3,852.96	1/2	3,633.60	1/2	3,366.52	1/2	3,010.88	1/2	2,654.58	1/2	2,298.07
3/4		3/4		3/4	4,286.07	3/4	4,067.23	3/4	3,848.40	3/4	3,629.03	3/4	3,359.13	3/4	3,003.46	3/4	2,647.16	3/4	2,290.64
4		4		4	4,281.51	4	4,062.67	4	3,843.84	4	3,624.46	4	3,351.74	4	2,996.04	4	2,639.74	4	2,283.21
1/4		1/4		1/4	4,276.95	1/4	4,058.12	1/4	3,839.28	1/4	3,619.89	1/4	3,344.35	1/4	2,988.61	1/4	2,632.31	1/4	2,275.77
1/2		1/2		1/2	4,272.39	1/2	4,053.56	1/2	3,834.72	1/2	3,615.32	1/2	3,336.95	1/2	2,981.19	1/2	2,624.89	1/2	2,268.35
3/4		3/4		3/4	4,267.83	3/4	4,049.00	3/4	3,830.16	3/4	3,610.74	3/4	3,329.56	3/4	2,973.77	3/4	2,617.47	3/4	2,260.92
5		5		5	4,263.27	5	4,044.44	5	3,825.60	5	3,606.17	5	3,322.17	5	2,966.34	5	2,610.04	5	2,253.49
1/4		1/4		1/4	4,258.72	1/4	4,039.88	1/4	3,821.04	1/4	3,601.60	1/4	3,314.77	1/4	2,958.92	1/4	2,602.62	1/4	2,246.06
1/2		1/2		1/2	4,254.16	1/2	4,035.32	1/2	3,816.47	1/2	3,597.03	1/2	3,307.38	1/2	2,951.50	1/2	2,595.19	1/2	2,238.64
3/4		3/4		3/4	4,249.60	3/4	4,030.76	3/4	3,811.90	3/4	3,592.46	3/4	3,299.98	3/4	2,944.08	3/4	2,587.77	3/4	2,231.21
6		6		6	4,245.04	6	4,026.20	6	3,807.33	6	3,587.89	6	3,292.59	6	2,936.65	6	2,580.35	6	2,223.78
1/4		1/4	4,449.89	1/4	4,240.48	1/4	4,021.64	1/4	3,802.76	1/4	3,583.31	1/4	3,285.19	1/4	2,929.23	1/4	2,572.92	1/4	2,216.35
1/2		1/2	4,446.71	1/2	4,235.92	1/2	4,017.08	1/2	3,798.18	1/2	3,578.74	1/2	3,277.80	1/2	2,921.81	1/2	2,565.50	1/2	2,208.92
3/4		3/4	4,443.53	3/4	4,231.36	3/4	4,012.52	3/4	3,793.61	3/4	3,574.17	3/4	3,270.40	3/4	2,914.38	3/4	2,558.07	3/4	2,201.50
7		7	4,440.35	7	4,226.80	7	4,007.97	7	3,789.04	7	3,569.60	7	3,263.01	7	2,906.96	7	2,550.65	7	2,194.07
1/4		1/4	4,437.16	1/4	4,222.24	1/4	4,003.41	1/4	3,784.47	1/4	3,565.03	1/4	3,255.61	1/4	2,899.54	1/4	2,543.22	1/4	2,186.64
1/2		1/2	4,433.22	1/2	4,217.68	1/2	3,998.85	1/2	3,779.90	1/2	3,560.46	1/2	3,248.22	1/2	2,892.12	1/2	2,535.80	1/2	2,179.21
3/4		3/4	4,429.28	3/4	4,213.12	3/4	3,994.29	3/4	3,775.32	3/4	3,555.88	3/4	3,240.82	3/4	2,884.69	3/4	2,528.38	3/4	2,171.79
8		8	4,425.33	8	4,208.57	8	3,989.73	8	3,770.75	8	3,551.31	8	3,233.43	8	2,877.27	8	2,520.95	8	2,164.36
1/4		1/4	4,421.39	1/4	4,204.01	1/4	3,985.17	1/4	3,766.18	1/4	3,546.74	1/4	3,226.03	1/4	2,869.85	1/4	2,513.53	1/4	2,156.93
1/2		1/2	4,416.92	1/2	4,199.45	1/2	3,980.61	1/2	3,761.61	1/2	3,541.93	1/2	3,218.64	1/2	2,862.42	1/2	2,506.10	1/2	2,149.50
3/4		3/4	4,412.45	3/4	4,194.89	3/4	3,976.05	3/4	3,757.04	3/4	3,537.12	3/4	3,211.24	3/4	2,855.00	3/4	2,498.68	3/4	2,142.08
9		9	4,407.97	9	4,190.33	9	3,971.49	9	3,752.47	9	3,532.31	9	3,203.85	9	2,847.58	9	2,491.26	9	2,134.65
1/4		1/4	4,403.50	1/4	4,185.77	1/4	3,966.93	1/4	3,747.89	1/4	3,527.49	1/4	3,196.45	1/4	2,840.16	1/4	2,483.83	1/4	2,127.22
1/2		1/2	4,399.00	1/2	4,181.21	1/2	3,962.37	1/2	3,743.32	1/2	3,522.24	1/2	3,189.03	1/2	2,832.73	1/2	2,476.41	1/2	2,119.79
3/4		3/4	4,394.49	3/4	4,176.65	3/4	3,957.81	3/4	3,738.75	3/4	3,516.99	3/4	3,181.61	3/4	2,825.31	3/4	2,468.98	3/4	2,112.37
10		10	4,389.98	10	4,172.09	10	3,953.26	10	3,734.18	10	3,511.74	10	3,174.19	10	2,817.89	10	2,461.56	10	2,104.94
1/4		1/4	4,385.48	1/4	4,167.53	1/4	3,948.70	1/4	3,729.61	1/4	3,506.48	1/4	3,166.76	1/4	2,810.46	1/4	2,454.14	1/4	2,097.51
1/2		1/2	4,380.96	1/2	4,162.97	1/2	3,944.14	1/2	3,725.04	1/2	3,500.75	1/2	3,159.34	1/2	2,803.04	1/2	2,446.71	1/2	2,090.10
3/4		3/4	4,376.45	3/4	4,158.42	3/4	3,939.58	3/4	3,720.46	3/4	3,495.02	3/4	3,151.92	3/4	2,795.62	3/4	2,439.29	3/4	2,082.70
11		11	4,371.93	11	4,153.86	11	3,935.02	11	3,715.89	11	3,489.29	11	3,144.49	11	2,788.19	11	2,431.86	11	2,075.29
1/4		1/4	4,367.42	1/4	4,149.30	1/4	3,930.46	1/4	3,711.32	1/4	3,483.55	1/4	3,137.07	1/4	2,780.77	1/4	2,424.44	1/4	2,067.88
1/2		1/2	4,362.90	1/2	4,144.74	1/2	3,925.90	1/2	3,706.75	1/2	3,477.35	1/2	3,129.65	1/2	2,773.35	1/2	2,417.01	1/2	2,060.47
3/4		3/4	4,358.39	3/4	4,140.18	3/4	3,921.34	3/4	3,702.18	3/4	3,471.15	3/4	3,122.23	3/4	2,765.93	3/4	2,409.57	3/4	2,053.07

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

3 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,045.66	0	1,689.64	0	1,332.96	0	983.23	0	632.69	0	275.73	0		0		0		0	
1/4	2,038.25	1/4	1,682.21	1/4	1,325.53	1/4	976.09	1/4	625.25	1/4	268.28	1/4		1/4		1/4		1/4	
1/2	2,030.84	1/2	1,674.78	1/2	1,318.09	1/2	968.95	1/2	617.82	1/2	260.83	1/2		1/2		1/2		1/2	
3/4	2,023.42	3/4	1,667.35	3/4	1,310.66	3/4	961.81	3/4	610.38	3/4	253.38	3/4		3/4		3/4		3/4	
1	2,016.01	1	1,659.92	1	1,303.23	1	954.67	1	602.95	1	245.94	1		1		1		1	
1/4	2,008.59	1/4	1,652.49	1/4	1,295.80	1/4	947.53	1/4	595.51	1/4	238.49	1/4		1/4		1/4		1/4	
1/2	2,001.18	1/2	1,645.06	1/2	1,288.37	1/2	940.39	1/2	588.07	1/2	231.04	1/2		1/2		1/2		1/2	
3/4	1,993.76	3/4	1,637.63	3/4	1,280.94	3/4	933.25	3/4	580.64	3/4	223.59	3/4		3/4		3/4		3/4	
2	1,986.35	2	1,630.20	2	1,273.51	2	926.11	2	573.20	2	216.15	2		2		2		2	
1/4	1,978.93	1/4	1,622.77	1/4	1,266.08	1/4	918.98	1/4	565.77	1/4	208.70	1/4		1/4		1/4		1/4	
1/2	1,971.52	1/2	1,615.33	1/2	1,258.65	1/2	911.84	1/2	558.33	1/2	201.25	1/2		1/2		1/2		1/2	
3/4	1,964.10	3/4	1,607.90	3/4	1,251.22	3/4	904.70	3/4	550.89	3/4	193.80	3/4		3/4		3/4		3/4	
3	1,956.69	3	1,600.47	3	1,243.78	3	897.56	3	543.46	3	186.36	3		3		3		3	
1/4	1,949.27	1/4	1,593.04	1/4	1,236.35	1/4	890.42	1/4	536.02	1/4	178.91	1/4		1/4		1/4		1/4	
1/2	1,941.86	1/2	1,585.61	1/2	1,228.92	1/2	883.28	1/2	528.59	1/2	171.46	1/2		1/2		1/2		1/2	
3/4	1,934.44	3/4	1,578.18	3/4	1,221.49	3/4	876.14	3/4	521.15	3/4	164.01	3/4		3/4		3/4		3/4	
4	1,927.03	4	1,570.75	4	1,214.06	4	869.00	4	513.71	4	156.56	4		4		4		4	
1/4	1,919.61	1/4	1,563.32	1/4	1,206.63	1/4	861.86	1/4	506.28	1/4	149.12	1/4		1/4		1/4		1/4	
1/2	1,912.20	1/2	1,555.89	1/2	1,199.20	1/2	854.70	1/2	498.84	1/2	141.67	1/2		1/2		1/2		1/2	
3/4	1,904.79	3/4	1,548.46	3/4	1,191.77	3/4	847.53	3/4	491.41	3/4	134.22	3/4		3/4		3/4		3/4	
5	1,897.37	5	1,541.02	5	1,184.34	5	840.37	5	483.97	5	126.78	5		5		5		5	
1/4	1,889.96	1/4	1,533.59	1/4	1,176.91	1/4	833.21	1/4	476.53	1/4	119.33	1/4		1/4		1/4		1/4	
1/2	1,882.54	1/2	1,526.16	1/2	1,169.68	1/2	825.84	1/2	469.10	1/2	111.89	1/2		1/2		1/2		1/2	
3/4	1,875.13	3/4	1,518.73	3/4	1,162.46	3/4	818.46	3/4	461.66	3/4	104.46	3/4		3/4		3/4		3/4	
6	1,867.71	6	1,511.30	6	1,155.23	6	811.09	6	454.23	6	97.02	6		6		6		6	
1/4	1,860.30	1/4	1,503.87	1/4	1,148.01	1/4	803.72	1/4	446.79	1/4	89.58	1/4		1/4		1/4		1/4	
1/2	1,852.88	1/2	1,496.44	1/2	1,140.80	1/2	796.28	1/2	439.35	1/2	82.17	1/2		1/2		1/2		1/2	
3/4	1,845.47	3/4	1,489.01	3/4	1,133.59	3/4	788.85	3/4	431.92	3/4	74.76	3/4		3/4		3/4		3/4	
7	1,838.05	7	1,481.58	7	1,126.38	7	781.41	7	424.48	7	67.35	7		7		7		7	
1/4	1,830.64	1/4	1,474.15	1/4	1,119.17	1/4	773.97	1/4	417.05	1/4	59.94	1/4		1/4		1/4		1/4	
1/2	1,823.22	1/2	1,466.71	1/2	1,111.96	1/2	766.54	1/2	409.61	1/2	53.42	1/2		1/2		1/2		1/2	
3/4	1,815.81	3/4	1,459.28	3/4	1,104.75	3/4	759.10	3/4	402.17	3/4	46.91	3/4		3/4		3/4		3/4	
8	1,808.39	8	1,451.85	8	1,097.54	8	751.67	8	394.74	8	40.39	8		8		8		8	
1/4	1,800.98	1/4	1,444.42	1/4	1,090.33	1/4	744.23	1/4	387.30	1/4	33.88	1/4		1/4		1/4		1/4	
1/2	1,793.56	1/2	1,436.99	1/2	1,083.19	1/2	736.79	1/2	379.87	1/2	29.22	1/2		1/2		1/2		1/2	
3/4	1,786.15	3/4	1,429.56	3/4	1,076.05	3/4	729.36	3/4	372.43	3/4	24.57	3/4		3/4		3/4		3/4	
9	1,778.74	9	1,422.13	9	1,068.91	9	721.92	9	364.99	9	19.91	9		9		9		9	
1/4	1,771.32	1/4	1,414.70	1/4	1,061.77	1/4	714.49	1/4	357.56	1/4	15.26	1/4		1/4		1/4		1/4	
1/2	1,763.91	1/2	1,407.27	1/2	1,054.63	1/2	707.05	1/2	350.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,756.49	3/4	1,399.84	3/4	1,047.49	3/4	699.61	3/4	342.69	3/4		3/4		3/4		3/4		3/4	
10	1,749.08	10	1,392.40	10	1,040.35	10	692.18	10	335.25	10		10		10		10		10	
1/4	1,741.66	1/4	1,384.97	1/4	1,033.21	1/4	684.74	1/4	327.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.23	1/2	1,377.54	1/2	1,026.07	1/2	677.31	1/2	320.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,726.80	3/4	1,370.11	3/4	1,018.93	3/4	669.87	3/4	312.94	3/4		3/4		3/4		3/4		3/4	
11	1,719.37	11	1,362.68	11	1,011.79	11	662.43	11	305.51	11		11		11		11		11	
1/4	1,711.94	1/4	1,355.25	1/4	1,004.65	1/4	655.00	1/4	298.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,704.51	1/2	1,347.82	1/2	997.51	1/2	647.56	1/2	290.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.08	3/4	1,340.39	3/4	990.37	3/4	640.13	3/4	283.17	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "E2MS 311"

3 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,369.66	0	4,151.07	0	3,931.97	0	3,712.50	0	3,475.79	0	3,122.60	0	2,765.23	0	2,407.78
1/4		1/4		1/4	4,365.15	1/4	4,146.50	1/4	3,927.40	1/4	3,707.93	1/4	3,469.09	1/4	3,115.16	1/4	2,757.78	1/4	2,400.32
1/2		1/2		1/2	4,360.63	1/2	4,141.94	1/2	3,922.84	1/2	3,703.35	1/2	3,462.39	1/2	3,107.71	1/2	2,750.34	1/2	2,392.87
3/4		3/4		3/4	4,356.11	3/4	4,137.38	3/4	3,918.27	3/4	3,698.77	3/4	3,455.69	3/4	3,100.27	3/4	2,742.89	3/4	2,385.41
1		1		1	4,351.59	1	4,132.81	1	3,913.71	1	3,694.20	1	3,448.52	1	3,092.82	1	2,735.45	1	2,377.96
1/4		1/4		1/4	4,347.07	1/4	4,128.25	1/4	3,909.15	1/4	3,689.62	1/4	3,441.34	1/4	3,085.38	1/4	2,728.00	1/4	2,370.50
1/2		1/2		1/2	4,342.55	1/2	4,123.68	1/2	3,904.58	1/2	3,685.04	1/2	3,434.17	1/2	3,077.93	1/2	2,720.56	1/2	2,363.05
3/4		3/4		3/4	4,338.03	3/4	4,119.12	3/4	3,900.02	3/4	3,680.47	3/4	3,426.99	3/4	3,070.49	3/4	2,713.11	3/4	2,355.59
2		2		2	4,333.52	2	4,114.55	2	3,895.45	2	3,675.89	2	3,419.59	2	3,063.04	2	2,705.67	2	2,348.14
1/4		1/4		1/4	4,329.00	1/4	4,109.99	1/4	3,890.89	1/4	3,671.31	1/4	3,412.18	1/4	3,055.60	1/4	2,698.22	1/4	2,340.68
1/2		1/2		1/2	4,324.48	1/2	4,105.42	1/2	3,886.32	1/2	3,666.73	1/2	3,404.78	1/2	3,048.15	1/2	2,690.78	1/2	2,333.22
3/4		3/4		3/4	4,319.96	3/4	4,100.86	3/4	3,881.76	3/4	3,662.16	3/4	3,397.38	3/4	3,040.70	3/4	2,683.33	3/4	2,325.77
3		3		3	4,315.39	3	4,096.29	3	3,877.19	3	3,657.58	3	3,389.96	3	3,033.26	3	2,675.89	3	2,318.31
1/4		1/4		1/4	4,310.83	1/4	4,091.73	1/4	3,872.63	1/4	3,653.00	1/4	3,382.55	1/4	3,025.81	1/4	2,668.44	1/4	2,310.86
1/2		1/2		1/2	4,306.27	1/2	4,087.16	1/2	3,868.06	1/2	3,648.43	1/2	3,375.14	1/2	3,018.37	1/2	2,660.99	1/2	2,303.40
3/4		3/4		3/4	4,301.70	3/4	4,082.60	3/4	3,863.50	3/4	3,643.85	3/4	3,367.72	3/4	3,010.92	3/4	2,653.55	3/4	2,295.95
4		4		4	4,297.14	4	4,078.04	4	3,858.93	4	3,639.27	4	3,360.31	4	3,003.48	4	2,646.10	4	2,288.49
1/4		1/4		1/4	4,292.57	1/4	4,073.47	1/4	3,854.37	1/4	3,634.69	1/4	3,352.89	1/4	2,996.03	1/4	2,638.66	1/4	2,281.04
1/2		1/2		1/2	4,288.01	1/2	4,068.91	1/2	3,849.81	1/2	3,630.12	1/2	3,345.47	1/2	2,988.59	1/2	2,631.21	1/2	2,273.58
3/4		3/4		3/4	4,283.44	3/4	4,064.34	3/4	3,845.24	3/4	3,625.54	3/4	3,338.06	3/4	2,981.14	3/4	2,623.76	3/4	2,266.12
5		5		5	4,278.88	5	4,059.78	5	3,840.66	5	3,620.96	5	3,330.64	5	2,973.70	5	2,616.32	5	2,258.67
1/4		1/4		1/4	4,274.31	1/4	4,055.21	1/4	3,836.09	1/4	3,616.39	1/4	3,323.22	1/4	2,966.25	1/4	2,608.87	1/4	2,251.21
1/2		1/2		1/2	4,269.75	1/2	4,050.65	1/2	3,831.51	1/2	3,611.81	1/2	3,315.81	1/2	2,958.81	1/2	2,601.43	1/2	2,243.76
3/4		3/4	4,474.83	3/4	4,265.18	3/4	4,046.08	3/4	3,826.93	3/4	3,607.23	3/4	3,308.39	3/4	2,951.36	3/4	2,593.98	3/4	2,236.30
6		6	4,471.64	6	4,260.62	6	4,041.52	6	3,822.36	6	3,602.65	6	3,300.97	6	2,943.92	6	2,586.53	6	2,228.85
1/4		1/4	4,468.46	1/4	4,256.05	1/4	4,036.95	1/4	3,817.78	1/4	3,598.08	1/4	3,293.56	1/4	2,936.47	1/4	2,579.09	1/4	2,221.39
1/2		1/2	4,465.27	1/2	4,251.49	1/2	4,032.39	1/2	3,813.20	1/2	3,593.50	1/2	3,286.14	1/2	2,929.03	1/2	2,571.64	1/2	2,213.93
3/4		3/4	4,462.09	3/4	4,246.93	3/4	4,027.82	3/4	3,808.62	3/4	3,588.92	3/4	3,278.72	3/4	2,921.58	3/4	2,564.20	3/4	2,206.48
7		7	4,458.14	7	4,242.36	7	4,023.26	7	3,804.05	7	3,584.35	7	3,271.31	7	2,914.13	7	2,556.75	7	2,199.02
1/4		1/4	4,454.19	1/4	4,237.80	1/4	4,018.70	1/4	3,799.47	1/4	3,579.77	1/4	3,263.89	1/4	2,906.69	1/4	2,549.30	1/4	2,191.57
1/2		1/2	4,450.24	1/2	4,233.23	1/2	4,014.13	1/2	3,794.89	1/2	3,575.19	1/2	3,256.48	1/2	2,899.24	1/2	2,541.86	1/2	2,184.11
3/4		3/4	4,446.30	3/4	4,228.67	3/4	4,009.57	3/4	3,790.32	3/4	3,570.61	3/4	3,249.06	3/4	2,891.80	3/4	2,534.41	3/4	2,176.66
8		8	4,441.82	8	4,224.10	8	4,005.00	8	3,785.74	8	3,565.80	8	3,241.64	8	2,884.35	8	2,526.97	8	2,169.20
1/4		1/4	4,437.34	1/4	4,219.54	1/4	4,000.44	1/4	3,781.16	1/4	3,560.98	1/4	3,234.23	1/4	2,876.91	1/4	2,519.52	1/4	2,161.75
1/2		1/2	4,432.86	1/2	4,214.97	1/2	3,995.87	1/2	3,776.58	1/2	3,556.16	1/2	3,226.81	1/2	2,869.46	1/2	2,512.07	1/2	2,154.29
3/4		3/4	4,428.39	3/4	4,210.41	3/4	3,991.31	3/4	3,772.01	3/4	3,551.35	3/4	3,219.39	3/4	2,862.02	3/4	2,504.63	3/4	2,146.83
9		9	4,423.88	9	4,205.84	9	3,986.74	9	3,767.43	9	3,546.09	9	3,211.95	9	2,854.57	9	2,497.18	9	2,139.38
1/4		1/4	4,419.36	1/4	4,201.28	1/4	3,982.18	1/4	3,762.85	1/4	3,540.83	1/4	3,204.50	1/4	2,847.13	1/4	2,489.74	1/4	2,131.92
1/2		1/2	4,414.85	1/2	4,196.72	1/2	3,977.61	1/2	3,758.28	1/2	3,535.57	1/2	3,197.06	1/2	2,839.68	1/2	2,482.29	1/2	2,124.47
3/4		3/4	4,410.34	3/4	4,192.15	3/4	3,973.05	3/4	3,753.70	3/4	3,530.31	3/4	3,189.61	3/4	2,832.24	3/4	2,474.84	3/4	2,117.01
10		10	4,405.82	10	4,187.59	10	3,968.49	10	3,749.12	10	3,524.57	10	3,182.17	10	2,824.79	10	2,467.40	10	2,109.56
1/4		1/4	4,401.30	1/4	4,183.02	1/4	3,963.92	1/4	3,744.54	1/4	3,518.83	1/4	3,174.72	1/4	2,817.35	1/4	2,459.95	1/4	2,102.10
1/2		1/2	4,396.78	1/2	4,178.46	1/2	3,959.36	1/2	3,739.97	1/2	3,513.10	1/2	3,167.27	1/2	2,809.90	1/2	2,452.50	1/2	2,094.65
3/4		3/4	4,392.27	3/4	4,173.89	3/4	3,954.79	3/4	3,735.39	3/4	3,507.36	3/4	3,159.83	3/4	2,802.46	3/4	2,445.06	3/4	2,087.19
11		11	4,387.75	11	4,169.33	11	3,950.23	11	3,730.81	11	3,501.14	11	3,152.38	11	2,795.01	11	2,437.60	11	2,079.73
1/4		1/4	4,383.22	1/4	4,164.76	1/4	3,945.66	1/4	3,726.24	1/4	3,494.92	1/4	3,144.94	1/4	2,787.56	1/4	2,430.15	1/4	2,072.28
1/2		1/2	4,378.70	1/2	4,160.20	1/2	3,941.10	1/2	3,721.66	1/2	3,488.70	1/2	3,137.49	1/2	2,780.12	1/2	2,422.69	1/2	2,064.82
3/4		3/4	4,374.18	3/4	4,155.63	3/4	3,936.53	3/4	3,717.08	3/4	3,482.48	3/4	3,130.05	3/4	2,772.67	3/4	2,415.24	3/4	2,057.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

BARGE "E2MS 311"

3 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,049.91	0	1,692.04	0	1,334.17	0	976.60	0	618.96	0	261.10	0		0		0		0	
1/4	2,042.46	1/4	1,684.59	1/4	1,326.72	1/4	969.16	1/4	611.50	1/4	253.64	1/4		1/4		1/4		1/4	
1/2	2,035.00	1/2	1,677.13	1/2	1,319.26	1/2	961.72	1/2	604.05	1/2	246.19	1/2		1/2		1/2		1/2	
3/4	2,027.54	3/4	1,669.68	3/4	1,311.81	3/4	954.28	3/4	596.59	3/4	238.73	3/4		3/4		3/4		3/4	
1	2,020.09	1	1,662.22	1	1,304.35	1	946.84	1	589.14	1	231.28	1		1		1		1	
1/4	2,012.63	1/4	1,654.76	1/4	1,296.90	1/4	939.40	1/4	581.68	1/4	223.82	1/4		1/4		1/4		1/4	
1/2	2,005.18	1/2	1,647.31	1/2	1,289.44	1/2	931.96	1/2	574.23	1/2	216.37	1/2		1/2		1/2		1/2	
3/4	1,997.72	3/4	1,639.85	3/4	1,281.98	3/4	924.51	3/4	566.77	3/4	208.91	3/4		3/4		3/4		3/4	
2	1,990.27	2	1,632.40	2	1,274.53	2	917.07	2	559.32	2	201.46	2		2		2		2	
1/4	1,982.81	1/4	1,624.94	1/4	1,267.07	1/4	909.63	1/4	551.86	1/4	194.00	1/4		1/4		1/4		1/4	
1/2	1,975.36	1/2	1,617.49	1/2	1,259.62	1/2	902.19	1/2	544.41	1/2	186.55	1/2		1/2		1/2		1/2	
3/4	1,967.90	3/4	1,610.03	3/4	1,252.16	3/4	894.75	3/4	536.95	3/4	179.09	3/4		3/4		3/4		3/4	
3	1,960.44	3	1,602.58	3	1,244.71	3	887.31	3	529.49	3	171.64	3		3		3		3	
1/4	1,952.99	1/4	1,595.12	1/4	1,237.25	1/4	879.87	1/4	522.04	1/4	164.18	1/4		1/4		1/4		1/4	
1/2	1,945.53	1/2	1,587.66	1/2	1,229.80	1/2	872.43	1/2	514.58	1/2	156.72	1/2		1/2		1/2		1/2	
3/4	1,938.08	3/4	1,580.21	3/4	1,222.34	3/4	864.99	3/4	507.13	3/4	149.27	3/4		3/4		3/4		3/4	
4	1,930.62	4	1,572.75	4	1,214.88	4	857.53	4	499.67	4	141.81	4		4		4		4	
1/4	1,923.17	1/4	1,565.30	1/4	1,207.43	1/4	850.08	1/4	492.22	1/4	134.36	1/4		1/4		1/4		1/4	
1/2	1,915.71	1/2	1,557.84	1/2	1,199.97	1/2	842.62	1/2	484.76	1/2	126.91	1/2		1/2		1/2		1/2	
3/4	1,908.26	3/4	1,550.39	3/4	1,192.52	3/4	835.17	3/4	477.31	3/4	119.45	3/4		3/4		3/4		3/4	
5	1,900.80	5	1,542.93	5	1,185.06	5	827.71	5	469.85	5	112.01	5		5		5		5	
1/4	1,893.34	1/4	1,535.48	1/4	1,177.61	1/4	820.25	1/4	462.40	1/4	104.56	1/4		1/4		1/4		1/4	
1/2	1,885.89	1/2	1,528.02	1/2	1,170.15	1/2	812.80	1/2	454.94	1/2	97.12	1/2		1/2		1/2		1/2	
3/4	1,878.43	3/4	1,520.56	3/4	1,162.70	3/4	805.34	3/4	447.48	3/4	89.67	3/4		3/4		3/4		3/4	
6	1,870.98	6	1,513.11	6	1,155.25	6	797.89	6	440.03	6	82.25	6		6		6		6	
1/4	1,863.52	1/4	1,505.65	1/4	1,147.80	1/4	790.43	1/4	432.57	1/4	74.84	1/4		1/4		1/4		1/4	
1/2	1,856.07	1/2	1,498.20	1/2	1,140.35	1/2	782.98	1/2	425.12	1/2	67.42	1/2		1/2		1/2		1/2	
3/4	1,848.61	3/4	1,490.74	3/4	1,132.90	3/4	775.52	3/4	417.66	3/4	60.00	3/4		3/4		3/4		3/4	
7	1,841.15	7	1,483.29	7	1,125.45	7	768.07	7	410.21	7	53.48	7		7		7		7	
1/4	1,833.70	1/4	1,475.83	1/4	1,118.00	1/4	760.61	1/4	402.75	1/4	46.95	1/4		1/4		1/4		1/4	
1/2	1,826.24	1/2	1,468.37	1/2	1,110.55	1/2	753.16	1/2	395.30	1/2	40.43	1/2		1/2		1/2		1/2	
3/4	1,818.79	3/4	1,460.92	3/4	1,103.10	3/4	745.70	3/4	387.84	3/4	33.91	3/4		3/4		3/4		3/4	
8	1,811.33	8	1,453.46	8	1,095.66	8	738.25	8	380.39	8	29.25	8		8		8		8	
1/4	1,803.88	1/4	1,446.01	1/4	1,088.21	1/4	730.79	1/4	372.93	1/4	24.59	1/4		1/4		1/4		1/4	
1/2	1,796.42	1/2	1,438.55	1/2	1,080.77	1/2	723.33	1/2	365.48	1/2	19.93	1/2		1/2		1/2		1/2	
3/4	1,788.97	3/4	1,431.10	3/4	1,073.33	3/4	715.88	3/4	358.02	3/4	15.28	3/4		3/4		3/4		3/4	
9	1,781.51	9	1,423.64	9	1,065.89	9	708.42	9	350.56	9		9		9		9		9	
1/4	1,774.05	1/4	1,416.19	1/4	1,058.45	1/4	700.97	1/4	343.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,766.60	1/2	1,408.73	1/2	1,051.01	1/2	693.51	1/2	335.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,759.14	3/4	1,401.27	3/4	1,043.57	3/4	686.06	3/4	328.20	3/4		3/4		3/4		3/4		3/4	
10	1,751.69	10	1,393.82	10	1,036.13	10	678.60	10	320.74	10		10		10		10		10	
1/4	1,744.23	1/4	1,386.36	1/4	1,028.69	1/4	671.15	1/4	313.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.78	1/2	1,378.91	1/2	1,021.25	1/2	663.69	1/2	305.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.32	3/4	1,371.45	3/4	1,013.81	3/4	656.24	3/4	298.38	3/4		3/4		3/4		3/4		3/4	
11	1,721.87	11	1,364.00	11	1,006.36	11	648.78	11	290.92	11		11		11		11		11	
1/4	1,714.41	1/4	1,356.54	1/4	998.92	1/4	641.33	1/4	283.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.95	1/2	1,349.09	1/2	991.48	1/2	633.87	1/2	276.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.50	3/4	1,341.63	3/4	984.04	3/4	626.41	3/4	268.56	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2018 CL
CALCULATED: 07/19/2018 CL
PRINTED: 07/20/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2018

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