BARGE "E2MS 312"

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	00-0/8	- 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
1 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
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
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	00-1/8	- 00-1/8	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"

January 7, 2019

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

http://www.pmacorp.net

BARGE "E2MS 312"

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	4,852.12	0	4,496.21	0	4,139.41	0	3,782.00	0	3,424.15	0	3,066.30	0	2,708.45	0	2,350.53
1/4		1/4		1/4	4,844.76	1/4	4,488.77	1/4	4,131.97	1/4	3,774.54	1/4	3,416.69	1/4	3,058.84	1/4	2,700.99	1/4	2,343.08
1/2		1/2		1/2	4,837.40	1/2	4,481.34	1/2	4,124.54	1/2	3,767.09	1/2	3,409.24	1/2	3,051.39	1/2	2,693.54	1/2	2,335.62
3/4		3/4		3/4	4,830.04	3/4	4,473.91	3/4	4,117.11	3/4	3,759.63	3/4	3,401.78	3/4	3,043.93	3/4	2,686.08	3/4	2,328.16
1		1		1	4,822.68	1	4,466.47	1	4,109.67	1	3,752.18	1	3,394.33	1	3,036.48	1	2,678.63	1	2,320.70
1/4		1/4		1/4	4,815.32	1/4	4,459.04	1/4	4,102.24	1/4	3,744.72	1/4	3,386.87	1/4	3,029.02	1/4	2,671.17	1/4	2,313.25
1/2		1/2		1/2	4,807.96	1/2	4,451.61	1/2	4,094.81	1/2	3,737.26	1/2	3,379.42	1/2	3,021.57	1/2	2,663.72	1/2	2,305.79
3/4		3/4		3/4	4,800.60	3/4	4,444.17	3/4	4,087.37	3/4	3,729.81	3/4	3,371.96	3/4	3,014.11	3/4	2,656.26	3/4	2,298.33
2		2		2	4,793.24	2	4,436.74	2	4,079.94	2	3,722.35	2	3,364.50	2	3,006.66	2	2,648.81	2	2,290.88
1/4		1/4		1/4	4,785.88	1/4	4,429.31	1/4	4,072.51	1/4	3,714.90	1/4	3,357.05	1/4	2,999.20	1/4	2,641.35	1/4	2,283.42
1/2		1/2		1/2	4,778.52	1/2	4,421.87	1/2	4,065.07	1/2	3,707.44	1/2	3,349.59	1/2	2,991.74	1/2	2,633.90	1/2	2,275.96
3/4		3/4		3/4	4,771.16	3/4	4,414.44	3/4	4,057.64	3/4	3,699.99	3/4	3,342.14	3/4	2,984.29	3/4	2,626.44	3/4	2,268.50
3		3		3	4,763.80	3	4,407.01	3	4,050.21	3	3,692.53	3	3,334.68	3	2,976.83	3	2,618.98	3	2,261.05
1/4		1/4		1/4	4,756.37	1/4	4,399.57	1/4	4,042.77	1/4	3,685.08	1/4	3,327.23	1/4	2,969.38	1/4	2,611.53	1/4	2,253.59
1/2		1/2		1/2	4,748.94	1/2	4,392.14	1/2	4,035.34	1/2	3,677.62	1/2	3,319.77	1/2	2,961.92	1/2	2,604.07	1/2	2,246.13
3/4		3/4		3/4	4,741.50	3/4	4,384.71	3/4	4,027.91	3/4	3,670.17	3/4	3,312.32	3/4	2,954.47	3/4	2,596.62	3/4	2,238.68
4		4		4	4,734.07	4	4,377.27	4	4,020.47	4	3,662.71	4	3,304.86	4	2,947.01	4	2,589.16	4	2,231.22
1/4		1/4		1/4	4,726.64	1/4	4,369.84	1/4	4,013.04	1/4	3,655.26	1/4	3,297.41	1/4	2,939.56	1/4	2,581.71	1/4	2,223.76
1/2		1/2		1/2	4,719.20	1/2	4,362.41	1/2	4,005.61	1/2	3,647.80	1/2	3,289.95	1/2	2,932.10	1/2	2,574.25	1/2	2,216.30
3/4		3/4		3/4	4,711.77	3/4	4,354.97	3/4	3,998.17	3/4	3,640.35	3/4	3,282.50	3/4	2,924.65	3/4	2,566.79	3/4	2,208.85
5		5		5	4,704.34	5	4,347.54	5	3,990.74	5	3,632.89	5	3,275.04	5	2,917.19	5	2,559.34	5	2,201.39
1/4		1/4		1/4	4,696.91	1/4	4,340.11	1/4	3,983.29	1/4	3,625.44	1/4	3,267.59	1/4	2,909.74	1/4	2,551.88	1/4	2,193.93
1/2		1/2		1/2	4,689.47	1/2	4,332.67	1/2	3,975.83	1/2	3,617.98	1/2	3,260.13	1/2	2,902.28	1/2	2,544.42	1/2	2,186.48
3/4		3/4		3/4	4,682.04	3/4	4,325.24	3/4	3,968.38	3/4	3,610.53	3/4	3,252.68	3/4	2,894.83	3/4	2,536.96	3/4	2,179.02
6		6	5,016.02	6	4,674.61	6	4,317.81	6	3,960.92	6	3,603.07	6	3,245.22	6	2,887.37	6	2,529.51	6	2,171.56
1/4		1/4	5,010.83	1/4	4,667.17	1/4	4,310.37	1/4	3,953.47	1/4	3,595.62	1/4	3,237.77	1/4	2,879.92	1/4	2,522.05	1/4	2,164.10
1/2		1/2	5,005.65	1/2	4,659.74	1/2	4,302.94	1/2	3,946.01	1/2	3,588.16	1/2	3,230.31	1/2	2,872.46	1/2	2,514.59	1/2	2,156.65
3/4		3/4	5,000.46	3/4	4,652.31	3/4	4,295.51	3/4	3,938.56	3/4	3,580.71	3/4	3,222.86	3/4	2,865.01	3/4	2,507.13	3/4	2,149.19
7		7	4,995.27	7	4,644.87	7	4,288.07	7	3,931.10	7	3,573.25	7	3,215.40	7	2,857.55	7	2,499.68	7	2,141.73
1/4		1/4	4,988.85	1/4	4,637.44	1/4	4,280.64	1/4	3,923.64	1/4	3,565.80	1/4	3,207.95	1/4	2,850.10	1/4	2,492.22	1/4	2,134.27
1/2		1/2	4,982.42	1/2	4,630.01	1/2	4,273.21	1/2	3,916.19	1/2	3,558.34	1/2	3,200.49	1/2	2,842.64	1/2	2,484.76	1/2	2,126.82
3/4		3/4	4,975.99	3/4	4,622.57	3/4	4,265.77	3/4	3,908.73	3/4	3,550.88	3/4	3,193.04	3/4	2,835.19	3/4	2,477.31	3/4	2,119.36
8		8	4,969.56	8	4,615.14	8	4,258.34	8	3,901.28	8	3,543.43	8	3,185.58	8	2,827.73	8	2,469.85	8	2,111.90
1/4		1/4	4,962.27	1/4	4,607.71	1/4	4,250.91	1/4	3,893.82	1/4	3,535.97	1/4	3,178.12	1/4	2,820.28	1/4	2,462.39	1/4	2,104.45
1/2		1/2	4,954.97	1/2	4,600.27	1/2	4,243.47	1/2	3,886.37	1/2	3,528.52	1/2	3,170.67	1/2	2,812.82	1/2	2,454.93	1/2	2,096.99
3/4		3/4	4,947.68	3/4	4,592.84	3/4	4,236.04	3/4	3,878.91	3/4	3,521.06	3/4	3,163.21	3/4	2,805.36	3/4	2,447.48	3/4	2,089.53
9		9	4,940.39	9	4,585.41	9	4,228.61	9	3,871.46	9	3,513.61	9	3,155.76	9	2,797.91	9	2,440.02	9	2,082.07
1/4		1/4	4,933.04	1/4	4,577.97	1/4	4,221.17	1/4	3,864.00	1/4	3,506.15	1/4	3,148.30	1/4	2,790.45	1/4	2,432.56	1/4	2,074.62
1/2		1/2	4,925.70	1/2	4,570.54	1/2	4,213.74	1/2	3,856.55	1/2	3,498.70	1/2	3,140.85	1/2	2,783.00	1/2	2,425.11	1/2	2,067.16
3/4		3/4	4,918.35	3/4	4,563.11	3/4	4,206.31	3/4	3,849.09	3/4	3,491.24	3/4	3,133.39	3/4	2,775.54	3/4	2,417.65	3/4	2,059.70
10		10	4,911.00	10	4,555.67	10	4,198.87	10	3,841.64	10	3,483.79	10	3,125.94	10	2,768.09	10	2,410.19	10	2,052.25
1/4		1/4	4,903.64	1/4	4,548.24	1/4	4,191.44	1/4	3,834.18	1/4	3,476.33	1/4	3,118.48	1/4	2,760.63	1/4	2,402.73	1/4	2,044.79
1/2		1/2	4,896.29	1/2	4,540.81	1/2	4,184.01	1/2	3,826.73	1/2	3,468.88	1/2	3,111.03	1/2	2,753.18	1/2	2,395.28	1/2	2,037.33
3/4		3/4	4,888.93	3/4	4,533.37	3/4	4,176.57	3/4	3,819.27	3/4	3,461.42	3/4	3,103.57	3/4	2,745.72	3/4	2,387.82	3/4	2,029.87
11		11	4,881.57	11	4,525.94	11	4,169.14	11	3,811.82	11	3,453.97	11	3,096.12	11	2,738.27	11	2,380.36	11	2,022.42
1/4		1/4	4,874.21	1/4	4,518.51	1/4	4,161.71	1/4	3,804.36	1/4	3,446.51	1/4	3,088.66	1/4	2,730.81	1/4	2,372.91	1/4	2,014.96
1/2		1/2	4,866.85	1/2	4,511.07	1/2	4,154.27	1/2	3,796.91	1/2	3,439.06	1/2	3,081.21	1/2	2,723.36	1/2	2,365.45	1/2	2,007.50
3/4		3/4	4,859.49	3/4	4,503.64	3/4	4,146.84	3/4	3,789.45	3/4	3,431.60	3/4	3,073.75	3/4	2,715.90	3/4	2,357.99	3/4	2,000.05

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'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

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	1,992.59	0	1,634.64	0	1,276.70	0	920.15	0	563.37	0	222.95	0		0		0		0	
1/4	1,985.13	1/4	1,627.19	1/4	1,269.24	1/4	912.75	1/4	555.92	1/4	216.41	1/4		1/4		1/4		1/4	
1/2	1,977.67	1/2	1,619.73	1/2	1,261.78	1/2	905.35	1/2	548.47	1/2	209.87	1/2		1/2		1/2		1/2	
3/4	1,970.22	3/4	1,612.27	3/4	1,254.33	3/4	897.95	3/4	541.02	3/4	203.33	3/4		3/4		3/4		3/4	
1	1,962.76	1	1,604.81	1	1,246.87	1	890.55	1	533.56	1	196.80	1		1		1		1	
1/4	1,955.30	1/4	1,597.36	1/4	1,239.41	1/4	883.15	1/4	526.11	1/4	190.35	1/4		1/4		1/4		1/4	
1/2	1,947.84	1/2	1,589.90	1/2	1,231.95	1/2	875.76	1/2	518.65	1/2	183.89	1/2		1/2		1/2		1/2	
3/4	1,940.39	3/4	1,582.44	3/4	1,224.50	3/4	868.36	3/4	511.19	3/4	177.44	3/4		3/4		3/4		3/4	
2	1,932.93	2	1,574.98	2	1,217.04	2	860.96	2	503.74	2	170.99	2		2		2		2	
1/4	1,925.47	1/4	1,567.53	1/4	1,209.58	1/4	853.56	1/4	496.32	1/4	164.63	1/4		1/4		1/4		1/4	
1/2	1,918.02	1/2	1,560.07	1/2	1,202.12	1/2	846.16	1/2	488.91	1/2	158.27	1/2		1/2		1/2		1/2	
3/4	1,910.56	3/4	1,552.61	3/4	1,194.67	3/4	838.76	3/4	481.50	3/4	151.90	3/4		3/4		3/4		3/4	
3	1,903.10	3	1,545.16	3	1,187.21	3	831.37	3	474.08	3	145.54	3		3		3		3	
1/4	1,895.64	1/4	1,537.70	1/4	1,179.75	1/4	823.97	1/4	466.76	1/4	139.26	1/4		1/4		1/4		1/4	
1/2	1,888.19	1/2	1,530.24	1/2	1,172.30	1/2	816.57	1/2	459.43	1/2	132.99	1/2		1/2		1/2		1/2	
3/4	1,880.73	3/4	1,522.78	3/4	1,164.84	3/4	809.17	3/4	452.11	3/4	126.71	3/4		3/4		3/4		3/4	
4	1,873.27	4	1,515.33	4	1,157.38	4	801.77	4	444.78	4	120.44	4		4		4		4	
1/4	1,865.82	1/4	1,507.87	1/4	1,149.92	1/4	794.37	1/4	437.54	1/4	114.25	1/4		1/4		1/4		1/4	
1/2	1,858.36	1/2	1,500.41	1/2	1,142.47	1/2	786.96	1/2	430.30	1/2	108.06	1/2		1/2		1/2		1/2	
3/4	1,850.90	3/4	1,492.96	3/4	1,135.01	3/4	779.55	3/4	423.06	3/4	101.87	3/4		3/4		3/4		3/4	
5	1,843.44	5	1,485.50	5	1,127.55	5	772.15	5	415.83	5	95.69	5		5		5		5	
1/4	1,835.99	1/4	1,478.04	1/4	1,120.13	1/4	764.69	1/4	408.67	1/4	89.60	1/4		1/4		1/4		1/4	
1/2	1,828.53	1/2	1,470.58	1/2	1,112.70	1/2	757.23	1/2	401.52	1/2	83.51	1/2		1/2		1/2		1/2	
3/4	1,821.07	3/4	1,463.13	3/4	1,105.28	3/4	749.77	3/4	394.37	3/4	77.42	3/4		3/4		3/4		3/4	
6	1,813.62	6	1,455.67	6	1,097.85	6	742.32	6	387.22	6	71.33	6		6		6		6	
1/4	1,806.16	1/4	1,448.21	1/4	1,090.42	1/4	734.86	1/4	380.16	1/4	65.35	1/4		1/4		1/4		1/4	
1/2	1,798.70	1/2	1,440.76	1/2	1,083.00	1/2	727.40	1/2	373.09	1/2	59.37	1/2		1/2		1/2		1/2	
3/4	1,791.24	3/4	1,433.30	3/4	1,075.57	3/4	719.95	3/4	366.03	3/4	53.39	3/4		3/4		3/4		3/4	
7	1,783.79	7	1,425.84	7	1,068.15	7	712.49	7	358.97	7	47.42	7		7		7		7	
1/4	1,776.33	1/4	1,418.38	1/4	1,060.74	1/4	705.03	1/4	351.99	1/4	42.42	1/4		1/4		1/4		1/4	
1/2	1,768.87	1/2	1,410.93	1/2	1,053.33	1/2	697.58	1/2	345.02	1/2	37.43	1/2		1/2		1/2		1/2	
3/4	1,761.41	3/4	1,403.47	3/4	1,045.93	3/4	690.12	3/4	338.04	3/4	32.44	3/4		3/4		3/4		3/4	
8	1,753.96	8	1,396.01	8	1,038.52	8	682.66	8	331.06	8	27.45	8		8		8		8	
1/4	1,746.50	1/4	1,388.55	1/4	1,031.12	1/4	675.20	1/4	324.18	1/4	24.40	1/4		1/4		1/4		1/4	
1/2	1,739.04	1/2	1,381.10	1/2	1,023.72	1/2	667.75	1/2	317.29	1/2	21.36	1/2		1/2		1/2		1/2	
3/4	1,731.59	3/4	1,373.64	3/4	1,016.32	3/4	660.29	3/4	310.40	3/4	18.32	3/4		3/4		3/4		3/4	
9	1,724.13	9	1,366.18	9	1,008.93	9	652.83	9	303.51	9	15.28	9		9		9		9	
1/4	1,716.67	1/4	1,358.73	1/4	1,001.53	1/4	645.38	1/4	296.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,709.21	1/2	1,351.27	1/2	994.13	1/2	637.92	1/2	289.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,701.76	3/4	1,343.81	3/4	986.73	3/4	630.46	3/4	283.11	3/4		3/4		3/4		3/4		3/4	
10	1,694.30	10	1,336.35	10	979.33	10	623.01	10	276.31	10		10		10		10		10	
1/4	1,686.84	1/4	1,328.90	1/4	971.93	1/4	615.55	1/4	269.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,679.39	1/2	1,321.44	1/2	964.54	1/2	608.09	1/2	262.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,671.93	3/4	1,313.98	3/4	957.14	3/4	600.63	3/4	256.17	3/4		3/4		3/4		3/4		3/4	
11	1,664.47	11	1,306.53	11	949.74	11	593.18	11	249.45	11		11		11		11		11	
1/4	1,657.01	1/4	1,299.07	1/4	942.34	1/4	585.73	1/4	242.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,649.56	1/2	1,291.61	1/2	934.94	1/2	578.27	1/2	236.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,642.10	3/4	1,284.15	3/4	927.54	3/4	570.82	3/4	229.58	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

1 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	4,851.78	0	4,496.04	0	4,139.42	0	3,782.19	0	3,424.51	0	3,066.84	0	2,709.17	0	2,351.43
1/4		1/4		1/4	4,844.42	1/4	4,488.61	1/4	4,131.99	1/4	3,774.73	1/4	3,417.06	1/4	3,059.39	1/4	2,701.72	1/4	2,343.98
1/2		1/2		1/2	4,837.07	1/2	4,481.18	1/2	4,124.56	1/2	3,767.28	1/2	3,409.61	1/2	3,051.94	1/2	2,694.27	1/2	2,336.53
3/4		3/4		3/4	4,829.71	3/4	4,473.75	3/4	4,117.13	3/4	3,759.83	3/4	3,402.16	3/4	3,044.49	3/4	2,686.82	3/4	2,329.07
1		1		1	4,822.36	1	4,466.32	1	4,109.70	1	3,752.38	1	3,394.71	1	3,037.04	1	2,679.36	1	2,321.62
1/4		1/4		1/4	4,815.00	1/4	4,458.89	1/4	4,102.27	1/4	3,744.93	1/4	3,387.26	1/4	3,029.58	1/4	2,671.91	1/4	2,314.17
1/2		1/2		1/2	4,807.64	1/2	4,451.46	1/2	4,094.84	1/2	3,737.48	1/2	3,379.80	1/2	3,022.13	1/2	2,664.46	1/2	2,306.71
3/4		3/4		3/4	4,800.29	3/4	4,444.03	3/4	4,087.41	3/4	3,730.03	3/4	3,372.35	3/4	3,014.68	3/4	2,657.01	3/4	2,299.26
2		2		2	4,792.93	2	4,436.60	2	4,079.98	2	3,722.57	2	3,364.90	2	3,007.23	2	2,649.56	2	2,291.81
1/4		1/4		1/4	4,785.58	1/4	4,429.17	1/4	4,072.55	1/4	3,715.12	1/4	3,357.45	1/4	2,999.78	1/4	2,642.11	1/4	2,284.35
1/2		1/2		1/2	4,778.22	1/2	4,421.74	1/2	4,065.12	1/2	3,707.67	1/2	3,350.00	1/2	2,992.33	1/2	2,634.65	1/2	2,276.90
3/4		3/4		3/4	4,770.86	3/4	4,414.32	3/4	4,057.69	3/4	3,700.22	3/4	3,342.55	3/4	2,984.88	3/4	2,627.20	3/4	2,269.45
3		3		3	4,763.51	3	4,406.89	3	4,050.26	3	3,692.77	3	3,335.10	3	2,977.42	3	2,619.75	3	2,261.99
1/4		1/4		1/4	4,756.08	1/4	4,399.46	1/4	4,042.84	1/4	3,685.32	1/4	3,327.64	1/4	2,969.97	1/4	2,612.30	1/4	2,254.54
1/2		1/2		1/2	4,748.65	1/2	4,392.03	1/2	4,035.41	1/2	3,677.86	1/2	3,320.19	1/2	2,962.52	1/2	2,604.85	1/2	2,247.08
3/4		3/4		3/4	4,741.22	3/4	4,384.60	3/4	4,027.98	3/4	3,670.41	3/4	3,312.74	3/4	2,955.07	3/4	2,597.40	3/4	2,239.63
4		4		4	4,733.79	4	4,377.17	4	4,020.55	4	3,662.96	4	3,305.29	4	2,947.62	4	2,589.95	4	2,232.18
1/4		1/4		1/4	4,726.36	1/4	4,369.74	1/4	4,013.12	1/4	3,655.51	1/4	3,297.84	1/4	2,940.17	1/4	2,582.49	1/4	2,224.72
1/2		1/2		1/2	4,718.93	1/2	4,362.31	1/2	4,005.69	1/2	3,648.06	1/2	3,290.39	1/2	2,932.71	1/2	2,575.04	1/2	2,217.27
3/4		3/4		3/4	4,711.50	3/4	4,354.88	3/4	3,998.26	3/4	3,640.61	3/4	3,282.94	3/4	2,925.26	3/4	2,567.59	3/4	2,209.82
5		5		5	4,704.07	5	4,347.45	5	3,990.83	5	3,633.16	5	3,275.48	5	2,917.81	5	2,560.13	5	2,202.36
1/4		1/4		1/4	4,696.64	1/4	4,340.02	1/4	3,983.38	1/4	3,625.70	1/4	3,268.03	1/4	2,910.36	1/4	2,552.68	1/4	2,194.91
1/2		1/2		1/2	4,689.21	1/2	4,332.59	1/2	3,975.92	1/2	3,618.25	1/2	3,260.58	1/2	2,902.91	1/2	2,545.22	1/2	2,187.46
3/4		3/4		3/4	4,681.78	3/4	4,325.16	3/4	3,968.47	3/4	3,610.80	3/4	3,253.13	3/4	2,895.46	3/4	2,537.77	3/4	2,180.00
6		6	5,015.59	6	4,674.35	6	4,317.73	6	3,961.02	6	3,603.35	6	3,245.68	6	2,888.01	6	2,530.32	6	2,172.55
1/4		1/4	5,010.41	1/4	4,666.92	1/4	4,310.30	1/4	3,953.57	1/4	3,595.90	1/4	3,238.23	1/4	2,880.55	1/4	2,522.86	1/4	2,165.10
1/2		1/2	5,005.23	1/2	4,659.49	1/2	4,302.87	1/2	3,946.12	1/2	3,588.45	1/2	3,230.77	1/2	2,873.10	1/2	2,515.41	1/2	2,157.64
3/4		3/4	5,000.04	3/4	4,652.06	3/4	4,295.44	3/4	3,938.67	3/4	3,581.00	3/4	3,223.32	3/4	2,865.65	3/4	2,507.96	3/4	2,150.19
7		7	4,994.86	7	4,644.63	7	4,288.01	7	3,931.22	7	3,573.54	7	3,215.87	7	2,858.20	7	2,500.50	7	2,142.74
1/4		1/4	4,988.43	1/4	4,637.20	1/4	4,280.58	1/4	3,923.76	1/4	3,566.09	1/4	3,208.42	1/4	2,850.75	1/4	2,493.05	1/4	2,135.28
1/2		1/2	4,982.01	1/2	4,629.77	1/2	4,273.15	1/2	3,916.31	1/2	3,558.64	1/2	3,200.97	1/2	2,843.30	1/2	2,485.60	1/2	2,127.83
3/4		3/4	4,975.58	3/4	4,622.34	3/4	4,265.72	3/4	3,908.86	3/4	3,551.19	3/4	3,193.52	3/4	2,835.85	3/4	2,478.14	3/4	2,120.38
8		8	4,969.15	8	4,614.91	8	4,258.29	8	3,901.41	8	3,543.74	8	3,186.07	8	2,828.39	8	2,470.69	8	2,112.92
1/4		1/4	4,961.87	1/4	4,607.48	1/4	4,250.86	1/4	3,893.96	1/4	3,536.29	1/4	3,178.61	1/4	2,820.94	1/4	2,463.24	1/4	2,105.47
1/2		1/2	4,954.58	1/2	4,600.06	1/2	4,243.43	1/2	3,886.51	1/2	3,528.83	1/2	3,171.16	1/2	2,813.49	1/2	2,455.78	1/2	2,098.01
3/4		3/4	4,947.29	3/4	4,592.63	3/4	4,236.00	3/4	3,879.06	3/4	3,521.38	3/4	3,163.71	3/4	2,806.04	3/4	2,448.33	3/4	2,090.56
9		9	4,940.00	9	4,585.20	9	4,228.58	9	3,871.60	9	3,513.93	9	3,156.26	9	2,798.59	9	2,440.88	9	2,083.11
1/4		1/4	4,932.66	1/4	4,577.77	1/4	4,221.15	1/4	3,864.15	1/4	3,506.48	1/4	3,148.81	1/4	2,791.14	1/4	2,433.42	1/4	2,075.65
1/2		1/2	4,925.32	1/2	4,570.34	1/2	4,213.72	1/2	3,856.70	1/2	3,499.03	1/2	3,141.36	1/2	2,783.68	1/2	2,425.97	1/2	2,068.20
3/4		3/4	4,917.97	3/4	4,562.91	3/4	4,206.29	3/4	3,849.25	3/4	3,491.58	3/4	3,133.91	3/4	2,776.23	3/4	2,418.52	3/4	2,060.75
10		10	4,910.63	10	4,555.48	10	4,198.86	10	3,841.80	10	3,484.13	10	3,126.45	10	2,768.78	10	2,411.06	10	2,053.29
1/4		1/4	4,903.27	1/4	4,548.05	1/4	4,191.43	1/4	3,834.35	1/4	3,476.67	1/4	3,119.00	1/4	2,761.33	1/4	2,403.61	1/4	2,045.84
1/2		1/2	4,895.92	1/2	4,540.62	1/2	4,184.00	1/2	3,826.89	1/2	3,469.22	1/2	3,111.55	1/2	2,753.88	1/2	2,396.15	1/2	2,038.39
3/4		3/4	4,888.57	3/4	4,533.19	3/4	4,176.57	3/4	3,819.44	3/4	3,461.77	3/4	3,104.10	3/4	2,746.43	3/4	2,388.70	3/4	2,030.93
11		11	4,881.21	11	4,525.76	11	4,169.14	11	3,811.99	11	3,454.32	11	3,096.65	11	2,738.98	11	2,381.25	11	2,023.48
1/4		1/4	4,873.85	1/4	4,518.33	1/4	4,161.71	1/4	3,804.54	1/4	3,446.87	1/4	3,089.20	1/4	2,731.52	1/4	2,373.79	1/4	2,016.03
1/2		1/2	4,866.50	1/2	4,510.90	1/2	4,154.28	1/2	3,797.09	1/2	3,439.42	1/2	3,081.74	1/2	2,724.07	1/2	2,366.34	1/2	2,008.57
3/4		3/4	4,859.14	3/4	4,503.47	3/4	4,146.85	3/4	3,789.64	3/4	3,431.97	3/4	3,074.29	3/4	2,716.62	3/4	2,358.89	3/4	2,001.12

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'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

1 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	1,993.67	0	1,635.90	0	1,278.13	0	920.63	0	563.09	0	222.82	0		0		0		0	
1/4	1,986.21	1/4	1,628.44	1/4	1,270.68	1/4	913.19	1/4	555.64	1/4	216.29	1/4		1/4		1/4		1/4	
1/2	1,978.76	1/2	1,620.99	1/2	1,263.22	1/2	905.75	1/2	548.18	1/2	209.75	1/2		1/2		1/2		1/2	
3/4	1,971.31	3/4	1,613.54	3/4	1,255.77	3/4	898.31	3/4	540.73	3/4	203.22	3/4		3/4		3/4		3/4	
1	1,963.85	1	1,606.08	1	1,248.32	1	890.87	1	533.28	1	196.68	1		1		1		1	
1/4	1,956.40	1/4	1,598.63	1/4	1,240.86	1/4	883.44	1/4	525.82	1/4	190.23	1/4		1/4		1/4		1/4	
1/2	1,948.94	1/2	1,591.18	1/2	1,233.41	1/2	876.00	1/2	518.37	1/2	183.79	1/2		1/2		1/2		1/2	
3/4	1,941.49	3/4	1,583.72	3/4	1,225.96	3/4	868.56	3/4	510.92	3/4	177.34	3/4		3/4		3/4		3/4	
2	1,934.04	2	1,576.27	2	1,218.50	2	861.12	2	503.46	2	170.89	2		2		2		2	
1/4	1,926.58	1/4	1,568.82	1/4	1,211.05	1/4	853.68	1/4	496.05	1/4	164.53	1/4		1/4		1/4		1/4	
1/2	1,919.13	1/2	1,561.36	1/2	1,203.59	1/2	846.24	1/2	488.64	1/2	158.17	1/2		1/2		1/2		1/2	
3/4	1,911.68	3/4	1,553.91	3/4	1,196.14	3/4	838.80	3/4	481.23	3/4	151.81	3/4		3/4		3/4		3/4	
3	1,904.22	3	1,546.46	3	1,188.69	3	831.36	3	473.82	3	145.45	3		3		3		3	
1/4	1,896.77	1/4	1,539.00	1/4	1,181.23	1/4	823.92	1/4	466.50	1/4	139.18	1/4		1/4		1/4		1/4	
1/2	1,889.32	1/2	1,531.55	1/2	1,173.78	1/2	816.48	1/2	459.18	1/2	132.91	1/2		1/2		1/2		1/2	
3/4	1,881.86	3/4	1,524.10	3/4	1,166.33	3/4	809.04	3/4	451.86	3/4	126.64	3/4		3/4		3/4		3/4	
4	1,874.41	4	1,516.64	4	1,158.87	4	801.60	4	444.53	4	120.36	4		4		4		4	
1/4	1,866.96	1/4	1,509.19	1/4	1,151.42	1/4	794.15	1/4	437.30	1/4	114.18	1/4		1/4		1/4		1/4	
1/2	1,859.50	1/2	1,501.73	1/2	1,143.97	1/2	786.69	1/2	430.06	1/2	108.00	1/2		1/2		1/2		1/2	
3/4	1,852.05	3/4	1,494.28	3/4	1,136.51	3/4	779.24	3/4	422.83	3/4	101.81	3/4		3/4		3/4		3/4	
5	1,844.60	5	1,486.83	5	1,129.06	5	771.79	5	415.59	5	95.63	5		5		5		5	
1/4	1,837.14	1/4	1,479.37	1/4	1,121.61	1/4	764.33	1/4	408.45	1/4	89.54	1/4		1/4		1/4		1/4	
1/2	1,829.69	1/2	1,471.92	1/2	1,114.15	1/2	756.88	1/2	401.30	1/2	83.46	1/2		1/2		1/2		1/2	
3/4	1,822.24	3/4	1,464.47	3/4	1,106.70	3/4	749.43	3/4	394.15	3/4	77.37	3/4		3/4		3/4		3/4	
6	1,814.78	6	1,457.01	6	1,099.25	6	741.97	6	387.01	6	71.28	6		6		6		6	
1/4	1,807.33	1/4	1,449.56	1/4	1,091.80	1/4	734.52	1/4	379.95	1/4	65.31	1/4		1/4		1/4		1/4	
1/2	1,799.87	1/2	1,442.11	1/2	1,084.35	1/2	727.07	1/2	372.89	1/2	59.33	1/2		1/2		1/2		1/2	
3/4	1,792.42	3/4	1,434.65	3/4	1,076.90	3/4	719.61	3/4	365.83	3/4	53.36	3/4		3/4		3/4		3/4	
7	1,784.97	7	1,427.20	7	1,069.45	7	712.16	7	358.77	7	47.39	7		7		7		7	
1/4	1,777.51	1/4	1,419.75	1/4	1,062.01	1/4	704.71	1/4	351.79	1/4	42.40	1/4		1/4		1/4		1/4	
1/2	1,770.06	1/2	1,412.29	1/2	1,054.56	1/2	697.25	1/2	344.82	1/2	37.41	1/2		1/2		1/2		1/2	
3/4	1,762.61	3/4	1,404.84	3/4	1,047.11	3/4	689.80	3/4	337.85	3/4	32.42	3/4		3/4		3/4		3/4	
8	1,755.15	8	1,397.39	8	1,039.66	8	682.35	8	330.88	8	27.43	8		8		8		8	
1/4	1,747.70	1/4	1,389.93	1/4	1,032.22	1/4	674.89	1/4	323.99	1/4	24.39	1/4		1/4		1/4		1/4	
1/2	1,740.25	1/2	1,382.48	1/2	1,024.78	1/2	667.44	1/2	317.11	1/2	21.35	1/2		1/2		1/2		1/2	
3/4	1,732.79	3/4	1,375.03	3/4	1,017.34	3/4	659.99	3/4	310.22	3/4	18.31	3/4		3/4		3/4		3/4	
9	1,725.34	9	1,367.57	9	1,009.91	9	652.53	9	303.34	9	15.27	9		9		9		9	
1/4	1,717.89	1/4	1,360.12	1/4	1,002.47	1/4	645.08	1/4	296.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.43	1/2	1,352.66	1/2	995.03	1/2	637.62	1/2	289.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,702.98	3/4	1,345.21	3/4	987.59	3/4	630.17	3/4	282.95	3/4		3/4		3/4		3/4		3/4	
10	1,695.53	10	1,337.76	10	980.15	10	622.72	10	276.15	10		10		10		10		10	
1/4	1,688.07	1/4	1,330.30	1/4	972.71	1/4	615.26	1/4	269.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.62	1/2	1,322.85	1/2	965.27	1/2	607.81	1/2	262.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.17	3/4	1,315.40	3/4	957.83	3/4	600.36	3/4	256.02	3/4		3/4		3/4		3/4		3/4	
11	1,665.71	11	1,307.94	11	950.39	11	592.90	11	249.31	11		11		11		11		11	
1/4	1,658.26	1/4	1,300.49	1/4	942.95	1/4	585.45	1/4	242.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,650.80	1/2	1,293.04	1/2	935.51	1/2	578.00	1/2	236.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,643.35	3/4	1,285.58	3/4	928.07	3/4	570.54	3/4	229.44	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

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	4,916.06	0	4,559.08	0	4,201.33	0	3,842.95	0	3,484.14	0	3,125.32	0	2,766.51	0	2,407.69
1/4		1/4		1/4	4,908.67	1/4	4,551.63	1/4	4,193.87	1/4	3,835.48	1/4	3,476.66	1/4	3,117.85	1/4	2,759.03	1/4	2,400.22
1/2		1/2		1/2	4,901.28	1/2	4,544.18	1/2	4,186.42	1/2	3,828.00	1/2	3,469.19	1/2	3,110.37	1/2	2,751.56	1/2	2,392.74
3/4		3/4		3/4	4,893.89	3/4	4,536.72	3/4	4,178.97	3/4	3,820.53	3/4	3,461.71	3/4	3,102.90	3/4	2,744.08	3/4	2,385.27
1		1		1	4,886.51	1	4,529.27	1	4,171.51	1	3,813.05	1	3,454.24	1	3,095.42	1	2,736.61	1	2,377.79
1/4		1/4		1/4	4,879.12	1/4	4,521.82	1/4	4,164.06	1/4	3,805.58	1/4	3,446.76	1/4	3,087.95	1/4	2,729.13	1/4	2,370.32
1/2		1/2		1/2	4,871.73	1/2	4,514.36	1/2	4,156.61	1/2	3,798.10	1/2	3,439.29	1/2	3,080.47	1/2	2,721.66	1/2	2,362.84
3/4		3/4		3/4	4,864.34	3/4	4,506.91	3/4	4,149.15	3/4	3,790.62	3/4	3,431.81	3/4	3,073.00	3/4	2,714.18	3/4	2,355.37
2		2		2	4,856.95	2	4,499.46	2	4,141.70	2	3,783.15	2	3,424.33	2	3,065.52	2	2,706.71	2	2,347.89
1/4		1/4		1/4	4,849.57	1/4	4,492.00	1/4	4,134.25	1/4	3,775.67	1/4	3,416.86	1/4	3,058.05	1/4	2,699.23	1/4	2,340.42
1/2		1/2		1/2	4,842.18	1/2	4,484.55	1/2	4,126.79	1/2	3,768.20	1/2	3,409.38	1/2	3,050.57	1/2	2,691.76	1/2	2,332.94
3/4		3/4		3/4	4,834.79	3/4	4,477.10	3/4	4,119.34	3/4	3,760.72	3/4	3,401.91	3/4	3,043.09	3/4	2,684.28	3/4	2,325.47
3		3		3	4,827.40	3	4,469.64	3	4,111.89	3	3,753.25	3	3,394.43	3	3,035.62	3	2,676.80	3	2,317.99
1/4		1/4		1/4	4,819.95	1/4	4,462.19	1/4	4,104.43	1/4	3,745.77	1/4	3,386.96	1/4	3,028.14	1/4	2,669.33	1/4	2,310.52
1/2		1/2		1/2	4,812.50	1/2	4,454.74	1/2	4,096.98	1/2	3,738.30	1/2	3,379.48	1/2	3,020.67	1/2	2,661.85	1/2	2,303.04
3/4		3/4		3/4	4,805.04	3/4	4,447.28	3/4	4,089.53	3/4	3,730.82	3/4	3,372.01	3/4	3,013.19	3/4	2,654.38	3/4	2,295.56
4		4		4	4,797.59	4	4,439.83	4	4,082.07	4	3,723.35	4	3,364.53	4	3,005.72	4	2,646.90	4	2,288.09
1/4		1/4		1/4	4,790.14	1/4	4,432.38	1/4	4,074.62	1/4	3,715.87	1/4	3,357.06	1/4	2,998.24	1/4	2,639.43	1/4	2,280.61
1/2		1/2		1/2	4,782.68	1/2	4,424.92	1/2	4,067.17	1/2	3,708.40	1/2	3,349.58	1/2	2,990.77	1/2	2,631.95	1/2	2,273.14
3/4		3/4		3/4	4,775.23	3/4	4,417.47	3/4	4,059.71	3/4	3,700.92	3/4	3,342.11	3/4	2,983.29	3/4	2,624.48	3/4	2,265.66
5		5		5	4,767.78	5	4,410.02	5	4,052.26	5	3,693.45	5	3,334.63	5	2,975.82	5	2,617.00	5	2,258.19
1/4		1/4		1/4	4,760.32	1/4	4,402.57	1/4	4,044.78	1/4	3,685.97	1/4	3,327.16	1/4	2,968.34	1/4	2,609.53	1/4	2,250.71
1/2		1/2		1/2	4,752.87	1/2	4,395.11	1/2	4,037.31	1/2	3,678.49	1/2	3,319.68	1/2	2,960.87	1/2	2,602.05	1/2	2,243.24
3/4		3/4		3/4	4,745.42	3/4	4,387.66	3/4	4,029.83	3/4	3,671.02	3/4	3,312.21	3/4	2,953.39	3/4	2,594.58	3/4	2,235.76
6		6	5,080.54	6	4,737.96	6	4,380.21	6	4,022.36	6	3,663.54	6	3,304.73	6	2,945.92	6	2,587.10	6	2,228.29
1/4		1/4	5,075.33	1/4	4,730.51	1/4	4,372.75	1/4	4,014.88	1/4	3,656.07	1/4	3,297.25	1/4	2,938.44	1/4	2,579.63	1/4	2,220.81
1/2		1/2	5,070.12	1/2	4,723.06	1/2	4,365.30	1/2	4,007.41	1/2	3,648.59	1/2	3,289.78	1/2	2,930.96	1/2	2,572.15	1/2	2,213.34
3/4		3/4	5,064.92	3/4	4,715.60	3/4	4,357.85	3/4	3,999.93	3/4	3,641.12	3/4	3,282.30	3/4	2,923.49	3/4	2,564.68	3/4	2,205.86
7		7	5,059.71	7	4,708.15	7	4,350.39	7	3,992.46	7	3,633.64	7	3,274.83	7	2,916.01	7	2,557.20	7	2,198.39
1/4		1/4	5,053.26	1/4	4,700.70	1/4	4,342.94	1/4	3,984.98	1/4	3,626.17	1/4	3,267.35	1/4	2,908.54	1/4	2,549.72	1/4	2,190.91
1/2		1/2	5,046.80	1/2	4,693.24	1/2	4,335.49	1/2	3,977.51	1/2	3,618.69	1/2	3,259.88	1/2	2,901.06	1/2	2,542.25	1/2	2,183.43
3/4		3/4	5,040.35	3/4	4,685.79	3/4	4,328.03	3/4	3,970.03	3/4	3,611.22	3/4	3,252.40	3/4	2,893.59	3/4	2,534.77	3/4	2,175.96
8		8	5,033.90	8	4,678.34	8	4,320.58	8	3,962.56	8	3,603.74	8	3,244.93	8	2,886.11	8	2,527.30	8	2,168.48
1/4		1/4	5,026.58	1/4	4,670.88	1/4	4,313.13	1/4	3,955.08	1/4	3,596.27	1/4	3,237.45	1/4	2,878.64	1/4	2,519.82	1/4	2,161.01
1/2		1/2	5,019.27	1/2	4,663.43	1/2	4,305.67	1/2	3,947.61	1/2	3,588.79	1/2	3,229.98	1/2	2,871.16	1/2	2,512.35	1/2	2,153.53
3/4		3/4	5,011.95	3/4	4,655.98	3/4	4,298.22	3/4	3,940.13	3/4	3,581.32	3/4	3,222.50	3/4	2,863.69	3/4	2,504.87	3/4	2,146.06
9		9	5,004.63	9	4,648.52	9	4,290.77	9	3,932.66	9	3,573.84	9	3,215.03	9	2,856.21	9	2,497.40	9	2,138.58
1/4		1/4	4,997.26	1/4	4,641.07	1/4	4,283.31	1/4	3,925.18	1/4	3,566.37	1/4	3,207.55	1/4	2,848.74	1/4	2,489.92	1/4	2,131.11
1/2		1/2	4,989.89	1/2	4,633.62	1/2	4,275.86	1/2	3,917.70	1/2	3,558.89	1/2	3,200.08	1/2	2,841.26	1/2	2,482.45	1/2	2,123.63
3/4		3/4	4,982.51	3/4	4,626.16	3/4	4,268.41	3/4	3,910.23	3/4	3,551.41	3/4	3,192.60	3/4	2,833.79	3/4	2,474.97	3/4	2,116.16
10		10	4,975.14	10	4,618.71	10	4,260.95	10	3,902.75	10	3,543.94	10	3,185.13	10	2,826.31	10	2,467.50	10	2,108.68
1/4		1/4	4,967.76	1/4	4,611.26	1/4	4,253.50	1/4	3,895.28	1/4	3,536.46	1/4	3,177.65	1/4	2,818.84	1/4	2,460.02	1/4	2,101.21
1/2		1/2	4,960.37	1/2	4,603.80	1/2	4,246.05	1/2	3,887.80	1/2	3,528.99	1/2	3,170.17	1/2	2,811.36	1/2	2,452.55	1/2	2,093.73
3/4		3/4	4,952.99	3/4	4,596.35	3/4	4,238.59	3/4	3,880.33	3/4	3,521.51	3/4	3,162.70	3/4	2,803.88	3/4	2,445.07	3/4	2,086.26
11		11	4,945.61	11	4,588.90	11	4,231.14	11	3,872.85	11	3,514.04	11	3,155.22	11	2,796.41	11	2,437.60	11	2,078.78
1/4		1/4	4,938.22	1/4	4,581.44	1/4	4,223.69	1/4	3,865.38	1/4	3,506.56	1/4	3,147.75	1/4	2,788.93	1/4	2,430.12	1/4	2,071.31
1/2		1/2	4,930.83	1/2	4,573.99	1/2	4,216.23	1/2	3,857.90	1/2	3,499.09	1/2	3,140.27	1/2	2,781.46	1/2	2,422.64	1/2	2,063.83
3/4		3/4	4,923.44	3/4	4,566.54	3/4	4,208.78	3/4	3,850.43	3/4	3,491.61	3/4	3,132.80	3/4	2,773.98	3/4	2,415.17	3/4	2,056.35

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'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

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	2,048.88	0	1,690.07	0	1,331.25	0	980.86	0	628.09	0	269.28	0		0		0		0	
1/4	2,041.40	1/4	1,682.59	1/4	1,323.78	1/4	973.69	1/4	620.61	1/4	261.80	1/4		1/4		1/4		1/4	
1/2	2,033.93	1/2	1,675.11	1/2	1,316.30	1/2	966.52	1/2	613.14	1/2	254.32	1/2		1/2		1/2		1/2	
3/4	2,026.45	3/4	1,667.64	3/4	1,308.82	3/4	959.36	3/4	605.66	3/4	246.85	3/4		3/4		3/4		3/4	
1	2,018.98	1	1,660.16	1	1,301.35	1	952.19	1	598.19	1	239.37	1		1		1		1	
1/4	2,011.50	1/4	1,652.69	1/4	1,293.87	1/4	945.02	1/4	590.71	1/4	231.90	1/4		1/4		1/4		1/4	
1/2	2,004.03	1/2	1,645.21	1/2	1,286.40	1/2	937.85	1/2	583.24	1/2	224.42	1/2		1/2		1/2		1/2	
3/4	1,996.55	3/4	1,637.74	3/4	1,278.92	3/4	930.68	3/4	575.76	3/4	216.95	3/4		3/4		3/4		3/4	
2	1,989.08	2	1,630.26	2	1,271.45	2	923.51	2	568.29	2	209.47	2		2		2		2	
1/4	1,981.60	1/4	1,622.79	1/4	1,263.97	1/4	916.35	1/4	560.81	1/4	202.00	1/4		1/4		1/4		1/4	
1/2	1,974.13	1/2	1,615.31	1/2	1,256.50	1/2	909.18	1/2	553.34	1/2	194.52	1/2		1/2		1/2		1/2	
3/4	1,966.65	3/4	1,607.84	3/4	1,249.02	3/4	902.01	3/4	545.86	3/4	187.05	3/4		3/4		3/4		3/4	
3	1,959.18	3	1,600.36	3	1,241.55	3	894.84	3	538.39	3	179.57	3		3		3		3	
1/4	1,951.70	1/4	1,592.89	1/4	1,234.07	1/4	887.67	1/4	530.91	1/4	172.10	1/4		1/4		1/4		1/4	
1/2	1,944.23	1/2	1,585.41	1/2	1,226.60	1/2	880.50	1/2	523.44	1/2	164.62	1/2		1/2		1/2		1/2	
3/4	1,936.75	3/4	1,577.94	3/4	1,219.12	3/4	873.33	3/4	515.96	3/4	157.15	3/4		3/4		3/4		3/4	
4	1,929.27	4	1,570.46	4	1,211.65	4	866.17	4	508.48	4	149.67	4		4		4		4	
1/4	1,921.80	1/4	1,562.99	1/4	1,204.17	1/4	858.97	1/4	501.01	1/4	142.20	1/4		1/4		1/4		1/4	
1/2	1,914.32	1/2	1,555.51	1/2	1,196.70	1/2	851.78	1/2	493.53	1/2	134.72	1/2		1/2		1/2		1/2	
3/4	1,906.85	3/4	1,548.03	3/4	1,189.22	3/4	844.59	3/4	486.06	3/4	127.25	3/4		3/4		3/4		3/4	
5	1,899.37	5	1,540.56	5	1,181.74	5	837.40	5	478.58	5	119.78	5		5		5		5	
1/4	1,891.90	1/4	1,533.08	1/4	1,174.55	1/4	829.92	1/4	471.11	1/4	112.31	1/4		1/4		1/4		1/4	
1/2	1,884.42	1/2	1,525.61	1/2	1,167.36	1/2	822.45	1/2	463.63	1/2	104.85	1/2		1/2		1/2		1/2	
3/4	1,876.95	3/4	1,518.13	3/4	1,160.17	3/4	814.97	3/4	456.16	3/4	97.38	3/4		3/4		3/4		3/4	
6	1,869.47	6	1,510.66	6	1,152.97	6	807.50	6	448.68	6	89.92	6		6		6		6	
1/4	1,862.00	1/4	1,503.18	1/4	1,145.80	1/4	800.02	1/4	441.21	1/4	82.48	1/4		1/4		1/4		1/4	
1/2	1,854.52	1/2	1,495.71	1/2	1,138.62	1/2	792.55	1/2	433.73	1/2	75.04	1/2		1/2		1/2		1/2	
3/4	1,847.05	3/4	1,488.23	3/4	1,131.44	3/4	785.07	3/4	426.26	3/4	67.60	3/4		3/4		3/4		3/4	
7	1,839.57	7	1,480.76	7	1,124.27	7	777.60	7	418.78	7	60.16	7		7		7		7	
1/4	1,832.10	1/4	1,473.28	1/4	1,117.09	1/4	770.12	1/4	411.31	1/4	53.62	1/4		1/4		1/4		1/4	
1/2	1,824.62	1/2	1,465.81	1/2	1,109.91	1/2	762.64	1/2	403.83	1/2	47.08	1/2		1/2		1/2		1/2	
3/4	1,817.15	3/4	1,458.33	3/4	1,102.73	3/4	755.17	3/4	396.36	3/4	40.54	3/4		3/4		3/4		3/4	
8	1,809.67	8	1,450.86	8	1,095.56	8	747.69	8	388.88	8	34.00	8		8		8		8	
1/4	1,802.19	1/4	1,443.38	1/4	1,088.39	1/4	740.22	1/4	381.40	1/4	29.33	1/4		1/4		1/4		1/4	
1/2	1,794.72	1/2	1,435.90	1/2	1,081.22	1/2	732.74	1/2	373.93	1/2	24.66	1/2		1/2		1/2		1/2	
3/4	1,787.24	3/4	1,428.43	3/4	1,074.05	3/4	725.27	3/4	366.45	3/4	19.99	3/4		3/4		3/4		3/4	
9	1,779.77	9	1,420.95	9	1,066.88	9	717.79	9	358.98	9	15.32	9		9		9		9	
1/4	1,772.29	1/4	1,413.48	1/4	1,059.72	1/4	710.32	1/4	351.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.82	1/2	1,406.00	1/2	1,052.55	1/2	702.84	1/2	344.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,757.34	3/4	1,398.53	3/4	1,045.38	3/4	695.37	3/4	336.55	3/4		3/4		3/4		3/4		3/4	
10	1,749.87	10	1,391.05	10	1,038.21	10	687.89	10	329.08	10		10		10		10		10	
1/4	1,742.39	1/4	1,383.58	1/4	1,031.04	1/4	680.42	1/4	321.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.92	1/2	1,376.10	1/2	1,023.87	1/2	672.94	1/2	314.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.44	3/4	1,368.63	3/4	1,016.70	3/4	665.47	3/4	306.65	3/4		3/4		3/4		3/4		3/4	
11	1,719.97	11	1,361.15	11	1,009.54	11	657.99	11	299.18	11		11		11		11		11	
1/4	1,712.49	1/4	1,353.68	1/4	1,002.37	1/4	650.52	1/4	291.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.02	1/2	1,346.20	1/2	995.20	1/2	643.04	1/2	284.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.54	3/4	1,338.73	3/4	988.03	3/4	635.56	3/4	276.75	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

2 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

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	4,951.25	0	4,594.08	0	4,235.89	0	3,877.13	0	3,517.91	0	3,158.68	0	2,799.45	0	2,440.16
1/4		1/4		1/4	4,943.86	1/4	4,586.62	1/4	4,228.43	1/4	3,869.65	1/4	3,510.42	1/4	3,151.20	1/4	2,791.97	1/4	2,432.67
1/2		1/2		1/2	4,936.47	1/2	4,579.16	1/2	4,220.96	1/2	3,862.17	1/2	3,502.94	1/2	3,143.71	1/2	2,784.49	1/2	2,425.18
3/4		3/4		3/4	4,929.08	3/4	4,571.70	3/4	4,213.50	3/4	3,854.68	3/4	3,495.46	3/4	3,136.23	3/4	2,777.00	3/4	2,417.70
1		1		1	4,921.69	1	4,564.23	1	4,206.04	1	3,847.20	1	3,487.97	1	3,128.74	1	2,769.52	1	2,410.21
1/4		1/4		1/4	4,914.30	1/4	4,556.77	1/4	4,198.58	1/4	3,839.72	1/4	3,480.49	1/4	3,121.26	1/4	2,762.03	1/4	2,402.73
1/2		1/2		1/2	4,906.91	1/2	4,549.31	1/2	4,191.11	1/2	3,832.23	1/2	3,473.00	1/2	3,113.78	1/2	2,754.55	1/2	2,395.24
3/4		3/4		3/4	4,899.52	3/4	4,541.85	3/4	4,183.65	3/4	3,824.75	3/4	3,465.52	3/4	3,106.29	3/4	2,747.07	3/4	2,387.75
2		2		2	4,892.14	2	4,534.39	2	4,176.19	2	3,817.26	2	3,458.04	2	3,098.81	2	2,739.58	2	2,380.27
1/4		1/4		1/4	4,884.75	1/4	4,526.92	1/4	4,168.73	1/4	3,809.78	1/4	3,450.55	1/4	3,091.33	1/4	2,732.10	1/4	2,372.78
1/2		1/2		1/2	4,877.36	1/2	4,519.46	1/2	4,161.27	1/2	3,802.30	1/2	3,443.07	1/2	3,083.84	1/2	2,724.61	1/2	2,365.30
3/4		3/4		3/4	4,869.97	3/4	4,512.00	3/4	4,153.80	3/4	3,794.81	3/4	3,435.58	3/4	3,076.36	3/4	2,717.13	3/4	2,357.81
3		3		3	4,862.58	3	4,504.54	3	4,146.34	3	3,787.33	3	3,428.10	3	3,068.87	3	2,709.65	3	2,350.32
1/4		1/4		1/4	4,855.19	1/4	4,497.07	1/4	4,138.88	1/4	3,779.84	1/4	3,420.62	1/4	3,061.39	1/4	2,702.16	1/4	2,342.84
1/2		1/2		1/2	4,847.81	1/2	4,489.61	1/2	4,131.42	1/2	3,772.36	1/2	3,413.13	1/2	3,053.91	1/2	2,694.68	1/2	2,335.35
3/4		3/4		3/4	4,840.34	3/4	4,482.15	3/4	4,123.95	3/4	3,764.88	3/4	3,405.65	3/4	3,046.42	3/4	2,687.19	3/4	2,327.86
4		4		4	4,832.88	4	4,474.69	4	4,116.49	4	3,757.39	4	3,398.17	4	3,038.94	4	2,679.71	4	2,320.38
1/4		1/4		1/4	4,825.42	1/4	4,467.22	1/4	4,109.03	1/4	3,749.91	1/4	3,390.68	1/4	3,031.45	1/4	2,672.23	1/4	2,312.89
1/2		1/2		1/2	4,817.96	1/2	4,459.76	1/2	4,101.57	1/2	3,742.42	1/2	3,383.20	1/2	3,023.97	1/2	2,664.74	1/2	2,305.41
3/4		3/4		3/4	4,810.49	3/4	4,452.30	3/4	4,094.10	3/4	3,734.94	3/4	3,375.71	3/4	3,016.49	3/4	2,657.26	3/4	2,297.92
5		5		5	4,803.03	5	4,444.84	5	4,086.64	5	3,727.46	5	3,368.23	5	3,009.00	5	2,649.77	5	2,290.43
1/4		1/4		1/4	4,795.57	1/4	4,437.37	1/4	4,079.18	1/4	3,719.97	1/4	3,360.75	1/4	3,001.52	1/4	2,642.28	1/4	2,282.95
1/2		1/2		1/2	4,788.11	1/2	4,429.91	1/2	4,071.72	1/2	3,712.49	1/2	3,353.26	1/2	2,994.03	1/2	2,634.80	1/2	2,275.46
3/4		3/4		3/4	4,780.64	3/4	4,422.45	3/4	4,064.23	3/4	3,705.01	3/4	3,345.78	3/4	2,986.55	3/4	2,627.31	3/4	2,267.97
6		6		6	4,773.18	6	4,414.99	6	4,056.75	6	3,697.52	6	3,338.29	6	2,979.07	6	2,619.83	6	2,260.49
1/4		1/4		1/4	4,765.72	1/4	4,407.52	1/4	4,049.26	1/4	3,690.04	1/4	3,330.81	1/4	2,971.58	1/4	2,612.34	1/4	2,253.00
1/2		1/2	5,101.02	1/2	4,758.26	1/2	4,400.06	1/2	4,041.78	1/2	3,682.55	1/2	3,323.33	1/2	2,964.10	1/2	2,604.85	1/2	2,245.52
3/4		3/4	5,095.81	3/4	4,750.79	3/4	4,392.60	3/4	4,034.30	3/4	3,675.07	3/4	3,315.84	3/4	2,956.62	3/4	2,597.37	3/4	2,238.03
7		7	5,090.60	7	4,743.33	7	4,385.14	7	4,026.81	7	3,667.59	7	3,308.36	7	2,949.13	7	2,589.88	7	2,230.54
1/4		1/4	5,085.39	1/4	4,735.87	1/4	4,377.67	1/4	4,019.33	1/4	3,660.10	1/4	3,300.87	1/4	2,941.65	1/4	2,582.39	1/4	2,223.06
1/2		1/2	5,080.19	1/2	4,728.41	1/2	4,370.21	1/2	4,011.85	1/2	3,652.62	1/2	3,293.39	1/2	2,934.16	1/2	2,574.91	1/2	2,215.57
3/4		3/4	5,073.73	3/4	4,720.95	3/4	4,362.75	3/4	4,004.36	3/4	3,645.13	3/4	3,285.91	3/4	2,926.68	3/4	2,567.42	3/4	2,208.08
8		8	5,067.28	8	4,713.48	8	4,355.29	8	3,996.88	8	3,637.65	8	3,278.42	8	2,919.20	8	2,559.94	8	2,200.60
1/4		1/4	5,060.82	1/4	4,706.02	1/4	4,347.83	1/4	3,989.39	1/4	3,630.17	1/4	3,270.94	1/4	2,911.71	1/4	2,552.45	1/4	2,193.11
1/2		1/2	5,054.37	1/2	4,698.56	1/2	4,340.36	1/2	3,981.91	1/2	3,622.68	1/2	3,263.46	1/2	2,904.23	1/2	2,544.96	1/2	2,185.63
3/4		3/4	5,047.05	3/4	4,691.10	3/4	4,332.90	3/4	3,974.43	3/4	3,615.20	3/4	3,255.97	3/4	2,896.74	3/4	2,537.48	3/4	2,178.14
9		9	5,039.73	9	4,683.63	9	4,325.44	9	3,966.94	9	3,607.71	9	3,248.49	9	2,889.26	9	2,529.99	9	2,170.65
1/4		1/4	5,032.41	1/4	4,676.17	1/4	4,317.98	1/4	3,959.46	1/4	3,600.23	1/4	3,241.00	1/4	2,881.78	1/4	2,522.51	1/4	2,163.17
1/2		1/2	5,025.09	1/2	4,668.71	1/2	4,310.51	1/2	3,951.97	1/2	3,592.75	1/2	3,233.52	1/2	2,874.29	1/2	2,515.02	1/2	2,155.68
3/4		3/4	5,017.71	3/4	4,661.25	3/4	4,303.05	3/4	3,944.49	3/4	3,585.26	3/4	3,226.04	3/4	2,866.81	3/4	2,507.53	3/4	2,148.20
10		10	5,010.34	10	4,653.78	10	4,295.59	10	3,937.01	10	3,577.78	10	3,218.55	10	2,859.32	10	2,500.05	10	2,140.71
1/4		1/4	5,002.96	1/4	4,646.32	1/4	4,288.13	1/4	3,929.52	1/4	3,570.29	1/4	3,211.07	1/4	2,851.84	1/4	2,492.56	1/4	2,133.22
1/2		1/2	4,995.58	1/2	4,638.86	1/2	4,280.66	1/2	3,922.04	1/2	3,562.81	1/2	3,203.58	1/2	2,844.36	1/2	2,485.07	1/2	2,125.74
3/4		3/4	4,988.20	3/4	4,631.40	3/4	4,273.20	3/4	3,914.55	3/4	3,555.33	3/4	3,196.10	3/4	2,836.87	3/4	2,477.59	3/4	2,118.25
11		11	4,980.81	11	4,623.93	11	4,265.74	11	3,907.07	11	3,547.84	11	3,188.62	11	2,829.39	11	2,470.10	11	2,110.76
1/4		1/4	4,973.42	1/4	4,616.47	1/4	4,258.28	1/4	3,899.59	1/4	3,540.36	1/4	3,181.13	1/4	2,821.90	1/4	2,462.62	1/4	2,103.28
1/2		1/2	4,966.03	1/2	4,609.01	1/2	4,250.81	1/2	3,892.10	1/2	3,532.88	1/2	3,173.65	1/2	2,814.42	1/2	2,455.13	1/2	2,095.79
3/4		3/4	4,958.64	3/4	4,601.55	3/4	4,243.35	3/4	3,884.62	3/4	3,525.39	3/4	3,166.16	3/4	2,806.94	3/4	2,447.64	3/4	2,088.31

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'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

2 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/2"

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	2,080.82	0	1,721.48	0	1,362.14	0	1,003.05	0	643.98	0	284.64	0		0		0		0	
1/4	2,073.33	1/4	1,714.00	1/4	1,354.66	1/4	995.58	1/4	636.49	1/4	277.15	1/4		1/4		1/4		1/4	
1/2	2,065.85	1/2	1,706.51	1/2	1,347.17	1/2	988.11	1/2	629.01	1/2	269.67	1/2		1/2		1/2		1/2	
3/4	2,058.36	3/4	1,699.02	3/4	1,339.69	3/4	980.64	3/4	621.52	3/4	262.18	3/4		3/4		3/4		3/4	
1	2,050.87	1	1,691.54	1	1,332.20	1	973.17	1	614.03	1	254.70	1		1		1		1	
1/4	2,043.39	1/4	1,684.05	1/4	1,324.71	1/4	965.70	1/4	606.55	1/4	247.21	1/4		1/4		1/4		1/4	
1/2	2,035.90	1/2	1,676.56	1/2	1,317.23	1/2	958.22	1/2	599.06	1/2	239.72	1/2		1/2		1/2		1/2	
3/4	2,028.42	3/4	1,669.08	3/4	1,309.74	3/4	950.75	3/4	591.57	3/4	232.24	3/4		3/4		3/4		3/4	
2	2,020.93	2	1,661.59	2	1,302.25	2	943.28	2	584.09	2	224.75	2		2		2		2	
1/4	2,013.44	1/4	1,654.11	1/4	1,294.77	1/4	935.81	1/4	576.60	1/4	217.26	1/4		1/4		1/4		1/4	
1/2	2,005.96	1/2	1,646.62	1/2	1,287.28	1/2	928.34	1/2	569.12	1/2	209.78	1/2		1/2		1/2		1/2	
3/4	1,998.47	3/4	1,639.13	3/4	1,279.80	3/4	920.87	3/4	561.63	3/4	202.29	3/4		3/4		3/4		3/4	
3	1,990.99	3	1,631.65	3	1,272.31	3	913.39	3	554.14	3	194.81	3		3		3		3	
1/4	1,983.50	1/4	1,624.16	1/4	1,264.82	1/4	905.92	1/4	546.66	1/4	187.32	1/4		1/4		1/4		1/4	
1/2	1,976.01	1/2	1,616.68	1/2	1,257.34	1/2	898.45	1/2	539.17	1/2	179.83	1/2		1/2		1/2		1/2	
3/4	1,968.53	3/4	1,609.19	3/4	1,249.85	3/4	890.98	3/4	531.68	3/4	172.35	3/4		3/4		3/4		3/4	
4	1,961.04	4	1,601.70	4	1,242.37	4	883.51	4	524.20	4	164.86	4		4		4		4	
1/4	1,953.55	1/4	1,594.22	1/4	1,234.88	1/4	876.04	1/4	516.71	1/4	157.37	1/4		1/4		1/4		1/4	
1/2	1,946.07	1/2	1,586.73	1/2	1,227.39	1/2	868.56	1/2	509.23	1/2	149.89	1/2		1/2		1/2		1/2	
3/4	1,938.58	3/4	1,579.24	3/4	1,219.91	3/4	861.08	3/4	501.74	3/4	142.40	3/4		3/4		3/4		3/4	
5	1,931.10	5	1,571.76	5	1,212.42	5	853.59	5	494.25	5	134.92	5		5		5		5	
1/4	1,923.61	1/4	1,564.27	1/4	1,204.93	1/4	846.11	1/4	486.77	1/4	127.43	1/4		1/4		1/4		1/4	
1/2	1,916.12	1/2	1,556.79	1/2	1,197.45	1/2	838.62	1/2	479.28	1/2	119.95	1/2		1/2		1/2		1/2	
3/4	1,908.64	3/4	1,549.30	3/4	1,189.96	3/4	831.13	3/4	471.80	3/4	112.47	3/4		3/4		3/4		3/4	
6	1,901.15	6	1,541.81	6	1,182.48	6	823.65	6	464.31	6	105.00	6		6		6		6	
1/4	1,893.66	1/4	1,534.33	1/4	1,174.99	1/4	816.16	1/4	456.82	1/4	97.52	1/4		1/4		1/4		1/4	
1/2	1,886.18	1/2	1,526.84	1/2	1,167.50	1/2	808.67	1/2	449.34	1/2	90.05	1/2		1/2		1/2		1/2	
3/4	1,878.69	3/4	1,519.35	3/4	1,160.02	3/4	801.19	3/4	441.85	3/4	82.60	3/4		3/4		3/4		3/4	
7	1,871.21	7	1,511.87	7	1,152.54	7	793.70	7	434.36	7	75.15	7		7		7		7	
1/4	1,863.72	1/4	1,504.38	1/4	1,145.06	1/4	786.22	1/4	426.88	1/4	67.70	1/4		1/4		1/4		1/4	
1/2	1,856.23	1/2	1,496.90	1/2	1,137.58	1/2	778.73	1/2	419.39	1/2	60.25	1/2		1/2		1/2		1/2	
3/4	1,848.75	3/4	1,489.41	3/4	1,130.10	3/4	771.24	3/4	411.91	3/4	53.70	3/4		3/4		3/4		3/4	
8	1,841.26	8	1,481.92	8	1,122.62	8	763.76	8	404.42	8	47.15	8		8		8		8	
1/4	1,833.77	1/4	1,474.44	1/4	1,115.14	1/4	756.27	1/4	396.93	1/4	40.60	1/4		1/4		1/4		1/4	
1/2	1,826.29	1/2	1,466.95	1/2	1,107.66	1/2	748.78	1/2	389.45	1/2	34.05	1/2		1/2		1/2		1/2	
3/4	1,818.80	3/4	1,459.46	3/4	1,100.19	3/4	741.30	3/4	381.96	3/4	29.37	3/4		3/4		3/4		3/4	
9	1,811.32	9	1,451.98	9	1,092.71	9	733.81	9	374.47	9	24.69	9		9		9		9	
1/4	1,803.83	1/4	1,444.49	1/4	1,085.24	1/4	726.33	1/4	366.99	1/4	20.02	1/4		1/4		1/4		1/4	
1/2	1,796.34	1/2	1,437.01	1/2	1,077.77	1/2	718.84	1/2	359.50	1/2	15.34	1/2		1/2		1/2		1/2	
3/4	1,788.86	3/4	1,429.52	3/4	1,070.30	3/4	711.35	3/4	352.02	3/4		3/4		3/4		3/4		3/4	
10	1,781.37	10	1,422.03	10	1,062.83	10	703.87	10	344.53	10		10		10		10		10	
1/4	1,773.89	1/4	1,414.55	1/4	1,055.36	1/4	696.38	1/4	337.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,766.40	1/2	1,407.06	1/2	1,047.88	1/2	688.90	1/2	329.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.91	3/4	1,399.58	3/4	1,040.41	3/4	681.41	3/4	322.07	3/4		3/4		3/4		3/4		3/4	
11	1,751.43	11	1,392.09	11	1,032.94	11	673.92	11	314.59	11		11		11		11		11	
1/4	1,743.94	1/4	1,384.60	1/4	1,025.47	1/4	666.44	1/4	307.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.45	1/2	1,377.12	1/2	1,018.00	1/2	658.95	1/2	299.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.97	3/4	1,369.63	3/4	1,010.53	3/4	651.46	3/4	292.13	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

3 PORT

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	4,346.33	0	4,127.64	0	3,908.51	0	3,688.99	0	3,450.17	0	3,096.82	0	2,740.02	0	2,383.13
1/4		1/4		1/4	4,341.81	1/4	4,123.08	1/4	3,903.94	1/4	3,684.41	1/4	3,443.49	1/4	3,089.38	1/4	2,732.59	1/4	2,375.69
1/2		1/2		1/2	4,337.29	1/2	4,118.51	1/2	3,899.38	1/2	3,679.83	1/2	3,436.80	1/2	3,081.95	1/2	2,725.16	1/2	2,368.25
3/4		3/4		3/4	4,332.77	3/4	4,113.95	3/4	3,894.81	3/4	3,675.26	3/4	3,429.64	3/4	3,074.52	3/4	2,717.72	3/4	2,360.80
1		1		1	4,328.25	1	4,109.38	1	3,890.25	1	3,670.68	1	3,422.47	1	3,067.08	1	2,710.29	1	2,353.36
1/4		1/4		1/4	4,323.73	1/4	4,104.82	1/4	3,885.68	1/4	3,666.10	1/4	3,415.31	1/4	3,059.65	1/4	2,702.86	1/4	2,345.92
1/2		1/2		1/2	4,319.21	1/2	4,100.25	1/2	3,881.12	1/2	3,661.52	1/2	3,408.14	1/2	3,052.22	1/2	2,695.42	1/2	2,338.47
3/4		3/4		3/4	4,314.69	3/4	4,095.69	3/4	3,876.55	3/4	3,656.94	3/4	3,400.75	3/4	3,044.78	3/4	2,687.99	3/4	2,331.03
2		2		2	4,310.17	2	4,091.12	2	3,871.99	2	3,652.37	2	3,393.36	2	3,037.35	2	2,680.56	2	2,323.59
1/4		1/4		1/4	4,305.65	1/4	4,086.56	1/4	3,867.42	1/4	3,647.79	1/4	3,385.97	1/4	3,029.92	1/4	2,673.12	1/4	2,316.14
1/2		1/2		1/2	4,301.13	1/2	4,081.99	1/2	3,862.86	1/2	3,643.21	1/2	3,378.58	1/2	3,022.48	1/2	2,665.69	1/2	2,308.70
3/4		3/4		3/4	4,296.56	3/4	4,077.43	3/4	3,858.29	3/4	3,638.63	3/4	3,371.18	3/4	3,015.05	3/4	2,658.26	3/4	2,301.25
3		3		3	4,291.99	3	4,072.86	3	3,853.73	3	3,634.05	3	3,363.78	3	3,007.62	3	2,650.82	3	2,293.81
1/4		1/4		1/4	4,287.43	1/4	4,068.29	1/4	3,849.16	1/4	3,629.48	1/4	3,356.38	1/4	3,000.18	1/4	2,643.39	1/4	2,286.37
1/2		1/2		1/2	4,282.86	1/2	4,063.73	1/2	3,844.60	1/2	3,624.90	1/2	3,348.98	1/2	2,992.75	1/2	2,635.96	1/2	2,278.92
3/4		3/4		3/4	4,278.30	3/4	4,059.16	3/4	3,840.03	3/4	3,620.32	3/4	3,341.57	3/4	2,985.32	3/4	2,628.52	3/4	2,271.49
4		4		4	4,273.73	4	4,054.60	4	3,835.46	4	3,615.74	4	3,334.17	4	2,977.88	4	2,621.09	4	2,264.05
1/4		1/4		1/4	4,269.17	1/4	4,050.03	1/4	3,830.90	1/4	3,611.16	1/4	3,326.76	1/4	2,970.45	1/4	2,613.65	1/4	2,256.61
1/2		1/2		1/2	4,264.60	1/2	4,045.47	1/2	3,826.33	1/2	3,606.59	1/2	3,319.36	1/2	2,963.02	1/2	2,606.22	1/2	2,249.17
3/4		3/4		3/4	4,260.04	3/4	4,040.90	3/4	3,821.76	3/4	3,602.01	3/4	3,311.95	3/4	2,955.58	3/4	2,598.79	3/4	2,241.73
5		5		5	4,255.47	5	4,036.34	5	3,817.18	5	3,597.43	5	3,304.55	5	2,948.15	5	2,591.35	5	2,234.30
1/4		1/4		1/4	4,250.91	1/4	4,031.77	1/4	3,812.60	1/4	3,592.85	1/4	3,297.14	1/4	2,940.72	1/4	2,583.92	1/4	2,226.86
1/2		1/2	4,456.05	1/2	4,246.34	1/2	4,027.21	1/2	3,808.02	1/2	3,588.27	1/2	3,289.74	1/2	2,933.29	1/2	2,576.48	1/2	2,219.42
3/4		3/4	4,452.86	3/4	4,241.78	3/4	4,022.64	3/4	3,803.44	3/4	3,583.69	3/4	3,282.33	3/4	2,925.85	3/4	2,569.05	3/4	2,211.98
6		6	4,449.68	6	4,237.21	6	4,018.08	6	3,798.87	6	3,579.12	6	3,274.93	6	2,918.42	6	2,561.61	6	2,204.55
1/4		1/4	4,446.49	1/4	4,232.65	1/4	4,013.51	1/4	3,794.29	1/4	3,574.54	1/4	3,267.52	1/4	2,910.99	1/4	2,554.18	1/4	2,197.11
1/2		1/2	4,443.30	1/2	4,228.08	1/2	4,008.95	1/2	3,789.71	1/2	3,569.96	1/2	3,260.12	1/2	2,903.55	1/2	2,546.74	1/2	2,189.67
3/4		3/4	4,439.36	3/4	4,223.52	3/4	4,004.38	3/4	3,785.13	3/4	3,565.38	3/4	3,252.71	3/4	2,896.12	3/4	2,539.31	3/4	2,182.23
7		7	4,435.41	7	4,218.95	7	3,999.82	7	3,780.55	7	3,560.80	7	3,245.31	7	2,888.69	7	2,531.88	7	2,174.79
1/4		1/4	4,431.46	1/4	4,214.38	1/4	3,995.25	1/4	3,775.97	1/4	3,556.23	1/4	3,237.90	1/4	2,881.25	1/4	2,524.44	1/4	2,167.36
1/2		1/2	4,427.51	1/2	4,209.82	1/2	3,990.68	1/2	3,771.40	1/2	3,551.65	1/2	3,230.50	1/2	2,873.82	1/2	2,517.01	1/2	2,159.92
3/4		3/4	4,423.03	3/4	4,205.25	3/4	3,986.12	3/4	3,766.82	3/4	3,546.83	3/4	3,223.10	3/4	2,866.39	3/4	2,509.57	3/4	2,152.48
8		8	4,418.55	8	4,200.69	8	3,981.55	8	3,762.24	8	3,542.01	8	3,215.69	8	2,858.95	8	2,502.14	8	2,145.04
1/4		1/4	4,414.07	1/4	4,196.12	1/4	3,976.99	1/4	3,757.66	1/4	3,537.19	1/4	3,208.29	1/4	2,851.52	1/4	2,494.70	1/4	2,137.60
1/2		1/2	4,409.60	1/2	4,191.56	1/2	3,972.42	1/2	3,753.08	1/2	3,532.38	1/2	3,200.88	1/2	2,844.09	1/2	2,487.27	1/2	2,130.17
3/4		3/4	4,405.08	3/4	4,186.99	3/4	3,967.86	3/4	3,748.51	3/4	3,527.12	3/4	3,193.45	3/4	2,836.65	3/4	2,479.83	3/4	2,122.73
9		9	4,400.57	9	4,182.43	9	3,963.29	9	3,743.93	9	3,521.86	9	3,186.01	9	2,829.22	9	2,472.40	9	2,115.29
1/4		1/4	4,396.06	1/4	4,177.86	1/4	3,958.73	1/4	3,739.35	1/4	3,516.60	1/4	3,178.58	1/4	2,821.79	1/4	2,464.97	1/4	2,107.85
1/2		1/2	4,391.55	1/2	4,173.30	1/2	3,954.16	1/2	3,734.77	1/2	3,511.33	1/2	3,171.15	1/2	2,814.35	1/2	2,457.53	1/2	2,100.41
3/4		3/4	4,387.02	3/4	4,168.73	3/4	3,949.60	3/4	3,730.19	3/4	3,505.59	3/4	3,163.71	3/4	2,806.92	3/4	2,450.10	3/4	2,093.00
10		10	4,382.50	10	4,164.17	10	3,945.03	10	3,725.62	10	3,499.85	10	3,156.28	10	2,799.49	10	2,442.66	10	2,085.58
1/4		1/4	4,377.98	1/4	4,159.60	1/4	3,940.47	1/4	3,721.04	1/4	3,494.11	1/4	3,148.85	1/4	2,792.05	1/4	2,435.23	1/4	2,078.16
1/2		1/2	4,373.46	1/2	4,155.04	1/2	3,935.90	1/2	3,716.46	1/2	3,488.37	1/2	3,141.41	1/2	2,784.62	1/2	2,427.79	1/2	2,070.74
3/4		3/4	4,368.94	3/4	4,150.47	3/4	3,931.34	3/4	3,711.88	3/4	3,482.17	3/4	3,133.98	3/4	2,777.19	3/4	2,420.35	3/4	2,063.32
11		11	4,364.42	11	4,145.91	11	3,926.77	11	3,707.30	11	3,475.96	11	3,126.55	11	2,769.75	11	2,412.91	11	2,055.91
1/4		1/4	4,359.90	1/4	4,141.34	1/4	3,922.21	1/4	3,702.73	1/4	3,469.75	1/4	3,119.12	1/4	2,762.32	1/4	2,405.46	1/4	2,048.49
1/2		1/2	4,355.37	1/2	4,136.77	1/2	3,917.64	1/2	3,698.15	1/2	3,463.54	1/2	3,111.68	1/2	2,754.89	1/2	2,398.02	1/2	2,041.07
3/4		3/4	4,350.85	3/4	4,132.21	3/4	3,913.07	3/4	3,693.57	3/4	3,456.86	3/4	3,104.25	3/4	2,747.46	3/4	2,390.58	3/4	2,033.65

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'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

3 PORT

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	2,026.22	0	1,669.66	0	1,312.48	0	963.15	0	611.23	0	253.74	0		0		0		0	
1/4	2,018.80	1/4	1,662.22	1/4	1,305.04	1/4	956.00	1/4	603.78	1/4	246.28	1/4		1/4		1/4		1/4	
1/2	2,011.37	1/2	1,654.78	1/2	1,297.60	1/2	948.85	1/2	596.34	1/2	238.82	1/2		1/2		1/2		1/2	
3/4	2,003.95	3/4	1,647.34	3/4	1,290.16	3/4	941.70	3/4	588.89	3/4	231.36	3/4		3/4		3/4		3/4	
1	1,996.52	1	1,639.90	1	1,282.71	1	934.55	1	581.44	1	223.90	1		1		1		1	
1/4	1,989.10	1/4	1,632.46	1/4	1,275.27	1/4	927.40	1/4	574.00	1/4	216.45	1/4		1/4		1/4		1/4	
1/2	1,981.67	1/2	1,625.01	1/2	1,267.83	1/2	920.25	1/2	566.55	1/2	208.99	1/2		1/2		1/2		1/2	
3/4	1,974.25	3/4	1,617.57	3/4	1,260.39	3/4	913.10	3/4	559.10	3/4	201.53	3/4		3/4		3/4		3/4	
2	1,966.82	2	1,610.13	2	1,252.95	2	905.95	2	551.66	2	194.07	2		2		2		2	
1/4	1,959.40	1/4	1,602.69	1/4	1,245.51	1/4	898.80	1/4	544.21	1/4	186.62	1/4		1/4		1/4		1/4	
1/2	1,951.97	1/2	1,595.25	1/2	1,238.07	1/2	891.65	1/2	536.77	1/2	179.16	1/2		1/2		1/2		1/2	
3/4	1,944.55	3/4	1,587.81	3/4	1,230.63	3/4	884.50	3/4	529.32	3/4	171.70	3/4		3/4		3/4		3/4	
3	1,937.12	3	1,580.37	3	1,223.18	3	877.35	3	521.87	3	164.24	3		3		3		3	
1/4	1,929.70	1/4	1,572.93	1/4	1,215.74	1/4	870.20	1/4	514.43	1/4	156.78	1/4		1/4		1/4		1/4	
1/2	1,922.27	1/2	1,565.48	1/2	1,208.30	1/2	863.05	1/2	506.98	1/2	149.33	1/2		1/2		1/2		1/2	
3/4	1,914.85	3/4	1,558.04	3/4	1,200.86	3/4	855.88	3/4	499.53	3/4	141.87	3/4		3/4		3/4		3/4	
4	1,907.42	4	1,550.60	4	1,193.42	4	848.71	4	492.09	4	134.41	4		4		4		4	
1/4	1,900.00	1/4	1,543.16	1/4	1,185.98	1/4	841.54	1/4	484.64	1/4	126.96	1/4		1/4		1/4		1/4	
1/2	1,892.57	1/2	1,535.72	1/2	1,178.54	1/2	834.36	1/2	477.19	1/2	119.50	1/2		1/2		1/2		1/2	
3/4	1,885.15	3/4	1,528.28	3/4	1,171.30	3/4	826.98	3/4	469.75	3/4	112.05	3/4		3/4		3/4		3/4	
5	1,877.72	5	1,520.84	5	1,164.07	5	819.60	5	462.30	5	104.60	5		5		5		5	
1/4	1,870.30	1/4	1,513.39	1/4	1,156.83	1/4	812.21	1/4	454.86	1/4	97.16	1/4		1/4		1/4		1/4	
1/2	1,862.87	1/2	1,505.95	1/2	1,149.60	1/2	804.83	1/2	447.41	1/2	89.71	1/2		1/2		1/2		1/2	
3/4	1,855.45	3/4	1,498.51	3/4	1,142.38	3/4	797.39	3/4	439.96	3/4	82.29	3/4		3/4		3/4		3/4	
6	1,848.02	6	1,491.07	6	1,135.16	6	789.94	6	432.52	6	74.87	6		6		6		6	
1/4	1,840.60	1/4	1,483.63	1/4	1,127.94	1/4	782.49	1/4	425.07	1/4	67.44	1/4		1/4		1/4		1/4	
1/2	1,833.17	1/2	1,476.19	1/2	1,120.72	1/2	775.05	1/2	417.62	1/2	60.02	1/2		1/2		1/2		1/2	
3/4	1,825.75	3/4	1,468.75	3/4	1,113.50	3/4	767.60	3/4	410.18	3/4	53.50	3/4		3/4		3/4		3/4	
7	1,818.32	7	1,461.31	7	1,106.28	7	760.15	7	402.73	7	46.97	7		7		7		7	
1/4	1,810.90	1/4	1,453.86	1/4	1,099.06	1/4	752.71	1/4	395.29	1/4	40.45	1/4		1/4		1/4		1/4	
1/2	1,803.47	1/2	1,446.42	1/2	1,091.84	1/2	745.26	1/2	387.84	1/2	33.93	1/2		1/2		1/2		1/2	
3/4	1,796.05	3/4	1,438.98	3/4	1,084.69	3/4	737.82	3/4	380.39	3/4	29.26	3/4		3/4		3/4		3/4	
8	1,788.62	8	1,431.54	8	1,077.54	8	730.37	8	372.95	8	24.60	8		8		8		8	
1/4	1,781.20	1/4	1,424.10	1/4	1,070.39	1/4	722.92	1/4	365.50	1/4	19.94	1/4		1/4		1/4		1/4	
1/2	1,773.77	1/2	1,416.66	1/2	1,063.24	1/2	715.48	1/2	358.05	1/2	15.28	1/2		1/2		1/2		1/2	
3/4	1,766.35	3/4	1,409.22	3/4	1,056.09	3/4	708.03	3/4	350.61	3/4		3/4		3/4		3/4		3/4	
9	1,758.93	9	1,401.78	9	1,048.94	9	700.58	9	343.16	9		9		9		9		9	
1/4	1,751.50	1/4	1,394.33	1/4	1,041.79	1/4	693.14	1/4	335.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,744.08	1/2	1,386.89	1/2	1,034.64	1/2	685.69	1/2	328.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,736.63	3/4	1,379.45	3/4	1,027.49	3/4	678.24	3/4	320.82	3/4		3/4		3/4		3/4		3/4	
10	1,729.19	10	1,372.01	10	1,020.34	10	670.80	10	313.38	10		10		10		10		10	
1/4	1,721.75	1/4	1,364.57	1/4	1,013.19	1/4	663.35	1/4	305.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.31	1/2	1,357.13	1/2	1,006.04	1/2	655.91	1/2	298.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.87	3/4	1,349.69	3/4	998.89	3/4	648.46	3/4	291.03	3/4		3/4		3/4		3/4		3/4	
11	1,699.43	11	1,342.25	11	991.74	11	641.01	11	283.57	11		11		11		11		11	
1/4	1,691.99	1/4	1,334.80	1/4	984.60	1/4	633.57	1/4	276.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,684.54	1/2	1,327.36	1/2	977.45	1/2	626.12	1/2	268.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,677.10	3/4	1,319.92	3/4	970.30	3/4	618.67	3/4	261.19	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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

BARGE "E2MS 312"

3 STBD

ULLAGE TABLE

HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	4,358.24	0	4,139.94	0	3,921.19	0	3,702.06	0	3,463.60	0	3,110.23	0	2,753.42	0	2,396.53
1/4		1/4		1/4	4,353.73	1/4	4,135.38	1/4	3,916.63	1/4	3,697.49	1/4	3,456.91	1/4	3,102.79	1/4	2,745.99	1/4	2,389.09
1/2		1/2		1/2	4,349.21	1/2	4,130.83	1/2	3,912.08	1/2	3,692.92	1/2	3,450.23	1/2	3,095.36	1/2	2,738.55	1/2	2,381.64
3/4		3/4		3/4	4,344.70	43528	4,126.27	3/4	3,907.52	3/4	3,688.35	3/4	3,443.06	3/4	3,087.93	3/4	2,731.12	3/4	2,374.20
1		1		1	4,340.19	1	4,121.71	1	3,902.96	1	3,683.78	1	3,435.90	1	3,080.49	1	2,723.68	1	2,366.75
1/4		1/4		1/4	4,335.68	1/4	4,117.15	1/4	3,898.40	1/4	3,679.21	1/4	3,428.73	1/4	3,073.06	1/4	2,716.25	1/4	2,359.31
1/2		1/2		1/2	4,331.17	1/2	4,112.60	1/2	3,893.85	1/2	3,674.64	1/2	3,421.57	1/2	3,065.63	1/2	2,708.82	1/2	2,351.87
3/4		3/4		3/4	4,326.65	3/4	4,108.04	3/4	3,889.29	3/4	3,670.07	3/4	3,414.17	3/4	3,058.19	3/4	2,701.38	3/4	2,344.42
2		2		2	4,322.14	2	4,103.48	2	3,884.73	2	3,665.50	2	3,406.78	2	3,050.76	2	2,693.95	2	2,336.98
1/4		1/4		1/4	4,317.63	1/4	4,098.92	1/4	3,880.17	1/4	3,660.93	1/4	3,399.39	1/4	3,043.33	1/4	2,686.52	1/4	2,329.54
1/2		1/2		1/2	4,313.12	1/2	4,094.37	1/2	3,875.62	1/2	3,656.36	1/2	3,392.00	1/2	3,035.89	1/2	2,679.08	1/2	2,322.09
3/4		3/4		3/4	4,308.56	3/4	4,089.81	3/4	3,871.06	3/4	3,651.79	3/4	3,384.60	3/4	3,028.46	3/4	2,671.65	3/4	2,314.65
3		3		3	4,304.00	3	4,085.25	3	3,866.50	3	3,647.22	3	3,377.20	3	3,021.02	3	2,664.22	3	2,307.20
1/4		1/4		1/4	4,299.45	1/4	4,080.70	1/4	3,861.95	1/4	3,642.65	1/4	3,369.80	1/4	3,013.59	1/4	2,656.78	1/4	2,299.76
1/2		1/2		1/2	4,294.89	1/2	4,076.14	1/2	3,857.39	1/2	3,638.08	1/2	3,362.40	1/2	3,006.16	1/2	2,649.35	1/2	2,292.32
3/4		3/4		3/4	4,290.33	3/4	4,071.58	3/4	3,852.83	3/4	3,633.51	3/4	3,354.99	3/4	2,998.72	3/4	2,641.92	3/4	2,284.87
4		4		4	4,285.77	4	4,067.02	4	3,848.27	4	3,628.94	4	3,347.59	4	2,991.29	4	2,634.48	4	2,277.43
1/4		1/4		1/4	4,281.22	1/4	4,062.47	1/4	3,843.72	1/4	3,624.37	1/4	3,340.18	1/4	2,983.86	1/4	2,627.05	1/4	2,269.98
1/2		1/2		1/2	4,276.66	1/2	4,057.91	1/2	3,839.16	1/2	3,619.80	1/2	3,332.78	1/2	2,976.42	1/2	2,619.61	1/2	2,262.54
3/4		3/4		3/4	4,272.10	3/4	4,053.35	3/4	3,834.59	3/4	3,615.23	3/4	3,325.37	3/4	2,968.99	3/4	2,612.18	3/4	2,255.10
5		5		5	4,267.54	5	4,048.79	5	3,830.02	5	3,610.66	5	3,317.97	5	2,961.56	5	2,604.74	5	2,247.65
1/4		1/4		1/4	4,262.99	1/4	4,044.24	1/4	3,825.45	1/4	3,606.09	1/4	3,310.56	1/4	2,954.12	1/4	2,597.31	1/4	2,240.21
1/2		1/2	4,467.75	1/2	4,258.43	1/2	4,039.68	1/2	3,820.88	1/2	3,601.52	1/2	3,303.16	1/2	2,946.69	1/2	2,589.88	1/2	2,232.77
3/4		3/4	4,464.57	3/4	4,253.87	3/4	4,035.12	3/4	3,816.31	3/4	3,596.95	3/4	3,295.75	3/4	2,939.26	3/4	2,582.44	3/4	2,225.32
6		6	4,461.39	6	4,249.32	6	4,030.57	6	3,811.74	6	3,592.38	6	3,288.35	6	2,931.82	6	2,575.01	6	2,217.88
1/4		1/4	4,458.21	1/4	4,244.76	1/4	4,026.01	1/4	3,807.17	1/4	3,587.81	1/4	3,280.94	1/4	2,924.39	1/4	2,567.57	1/4	2,210.43
1/2		1/2	4,455.03	1/2	4,240.20	1/2	4,021.45	1/2	3,802.60	1/2	3,583.24	1/2	3,273.54	1/2	2,916.96	1/2	2,560.14	1/2	2,202.99
3/4		3/4	4,451.09	3/4	4,235.64	3/4	4,016.89	3/4	3,798.03	3/4	3,578.67	3/4	3,266.13	3/4	2,909.52	3/4	2,552.71	3/4	2,195.55
7		7	4,447.14	7	4,231.09	7	4,012.34	7	3,793.46	7	3,574.10	7	3,258.73	7	2,902.09	7	2,545.27	7	2,188.10
1/4		1/4	4,443.20	1/4	4,226.53	1/4	4,007.78	1/4	3,788.89	1/4	3,569.53	1/4	3,251.32	1/4	2,894.66	1/4	2,537.84	1/4	2,180.66
1/2		1/2	4,439.26	1/2	4,221.97	1/2	4,003.22	1/2	3,784.32	1/2	3,564.96	1/2	3,243.92	1/2	2,887.22	1/2	2,530.40	1/2	2,173.22
3/4		3/4	4,434.79	3/4	4,217.41	3/4	3,998.66	3/4	3,779.75	3/4	3,560.16	3/4	3,236.51	3/4	2,879.79	3/4	2,522.97	3/4	2,165.77
8		8	4,430.32	8	4,212.86	8	3,994.11	8	3,775.18	8	3,555.35	8	3,229.11	8	2,872.35	8	2,515.53	8	2,158.33
1/4		1/4	4,425.85	1/4	4,208.30	1/4	3,989.55	1/4	3,770.61	1/4	3,550.54	1/4	3,221.70	1/4	2,864.92	1/4	2,508.10	1/4	2,150.88
1/2		1/2	4,421.38	1/2	4,203.74	1/2	3,984.99	1/2	3,766.04	1/2	3,545.73	1/2	3,214.30	1/2	2,857.49	1/2	2,500.67	1/2	2,143.44
3/4		3/4	4,416.88	3/4	4,199.19	3/4	3,980.44	3/4	3,761.47	3/4	3,540.48	3/4	3,206.86	3/4	2,850.05	3/4	2,493.23	3/4	2,136.00
9		9	4,412.37	9	4,194.63	9	3,975.88	9	3,756.90	9	3,535.23	9	3,199.43	9	2,842.62	9	2,485.80	9	2,128.55
1/4		1/4	4,407.87	1/4	4,190.07	1/4	3,971.32	1/4	3,752.33	1/4	3,529.98	1/4	3,192.00	1/4	2,835.19	1/4	2,478.36	1/4	2,121.11
1/2		1/2	4,403.36	1/2	4,185.51	1/2	3,966.76	1/2	3,747.76	1/2	3,524.72	1/2	3,184.56	1/2	2,827.75	1/2	2,470.93	1/2	2,113.67
3/4		3/4	4,398.85	3/4	4,180.96	3/4	3,962.21	3/4	3,743.19	3/4	3,519.00	3/4	3,177.13	3/4	2,820.32	3/4	2,463.49	3/4	2,106.22
10		10	4,394.34	10	4,176.40	10	3,957.65	10	3,738.62	10	3,513.27	10	3,169.69	10	2,812.89	10	2,456.06	10	2,098.78
1/4		1/4	4,389.83	1/4	4,171.84	1/4	3,953.09	1/4	3,734.05	1/4	3,507.54	1/4	3,162.26	1/4	2,805.45	1/4	2,448.63	1/4	2,091.33
1/2		1/2	4,385.31	1/2	4,167.28	1/2	3,948.53	1/2	3,729.48	1/2	3,501.81	1/2	3,154.83	1/2	2,798.02	1/2	2,441.19	1/2	2,083.89
3/4		3/4	4,380.80	3/4	4,162.73	3/4	3,943.98	3/4	3,724.91	3/4	3,495.60	3/4	3,147.39	3/4	2,790.59	3/4	2,433.75	3/4	2,076.45
11		11	4,376.29	11	4,158.17	11	3,939.42	11	3,720.34	11	3,489.39	11	3,139.96	11	2,783.15	11	2,426.30	11	2,069.00
1/4		1/4	4,371.77	1/4	4,153.61	1/4	3,934.86	1/4	3,715.77	1/4	3,483.18	1/4	3,132.53	1/4	2,775.72	1/4	2,418.86	1/4	2,061.56
1/2		1/2	4,367.26	1/2	4,149.06	1/2	3,930.30	1/2	3,711.20	1/2	3,476.97	1/2	3,125.09	1/2	2,768.29	1/2	2,411.42	1/2	2,054.11
3/4		3/4	4,362.75	3/4	4,144.50	3/4	3,925.75	3/4	3,706.63	3/4	3,470.29	3/4	3,117.66	3/4	2,760.85	3/4	2,403.97	3/4	2,046.67

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'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 312"

3 STBD

ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	2,039.23	0	1,681.92	0	1,324.62	0	967.63	0	610.54	0	253.25	0		0		0		0	
1/4	2,031.78	1/4	1,674.48	1/4	1,317.18	1/4	960.20	1/4	603.10	1/4	245.80	1/4		1/4		1/4		1/4	
1/2	2,024.34	1/2	1,667.04	1/2	1,309.73	1/2	952.77	1/2	595.65	1/2	238.36	1/2		1/2		1/2		1/2	
3/4	2,016.90	3/4	1,659.59	3/4	1,302.29	43528	945.34	3/4	588.21	3/4	230.92	3/4		3/4		3/4		3/4	
1	2,009.45	1	1,652.15	1	1,294.85	1	937.91	1	580.77	1	223.47	1		1		1		1	
1/4	2,002.01	1/4	1,644.71	1/4	1,287.40	1/4	930.48	1/4	573.32	1/4	216.03	1/4		1/4		1/4		1/4	
1/2	1,994.56	1/2	1,637.26	1/2	1,279.96	1/2	923.05	1/2	565.88	1/2	208.59	1/2		1/2		1/2		1/2	
3/4	1,987.12	3/4	1,629.82	3/4	1,272.52	3/4	915.63	3/4	558.43	3/4	201.14	3/4		3/4		3/4		3/4	
2	1,979.68	2	1,622.37	2	1,265.07	2	908.20	2	550.99	2	193.70	2		2		2		2	
1/4	1,972.23	1/4	1,614.93	1/4	1,257.63	1/4	900.77	1/4	543.55	1/4	186.25	1/4		1/4		1/4		1/4	
1/2	1,964.79	1/2	1,607.49	1/2	1,250.18	1/2	893.34	1/2	536.10	1/2	178.81	1/2		1/2		1/2		1/2	
3/4	1,957.35	3/4	1,600.04	3/4	1,242.74	3/4	885.91	3/4	528.66	3/4	171.37	3/4		3/4		3/4		3/4	
3	1,949.90	3	1,592.60	3	1,235.30	3	878.48	3	521.22	3	163.92	3		3		3		3	
1/4	1,942.46	1/4	1,585.16	1/4	1,227.85	1/4	871.05	1/4	513.77	1/4	156.48	1/4		1/4		1/4		1/4	
1/2	1,935.01	1/2	1,577.71	1/2	1,220.41	1/2	863.62	1/2	506.33	1/2	149.04	1/2		1/2		1/2		1/2	
3/4	1,927.57	3/4	1,570.27	3/4	1,212.97	3/4	856.18	3/4	498.89	3/4	141.59	3/4		3/4		3/4		3/4	
4	1,920.13	4	1,562.82	4	1,205.52	4	848.73	4	491.44	4	134.15	4		4		4		4	
1/4	1,912.68	1/4	1,555.38	1/4	1,198.08	1/4	841.29	1/4	484.00	1/4	126.71	1/4		1/4		1/4		1/4	
1/2	1,905.24	1/2	1,547.94	1/2	1,190.63	1/2	833.85	1/2	476.55	1/2	119.27	1/2		1/2		1/2		1/2	
3/4	1,897.79	3/4	1,540.49	3/4	1,183.19	3/4	826.40	3/4	469.11	3/4	111.83	3/4		3/4		3/4		3/4	
5	1,890.35	5	1,533.05	5	1,175.75	5	818.96	5	461.67	5	104.40	5		5		5		5	
1/4	1,882.91	1/4	1,525.60	1/4	1,168.30	1/4	811.52	1/4	454.22	1/4	96.97	1/4		1/4		1/4		1/4	
1/2	1,875.46	1/2	1,518.16	1/2	1,160.86	1/2	804.07	1/2	446.78	1/2	89.54	1/2		1/2		1/2		1/2	
3/4	1,868.02	3/4	1,510.72	3/4	1,153.42	3/4	796.63	3/4	439.34	3/4	82.13	3/4		3/4		3/4		3/4	
6	1,860.58	6	1,503.27	6	1,145.98	6	789.19	6	431.89	6	74.72	6		6		6		6	
1/4	1,853.13	1/4	1,495.83	1/4	1,138.54	1/4	781.74	1/4	424.45	1/4	67.31	1/4		1/4		1/4		1/4	
1/2	1,845.69	1/2	1,488.39	1/2	1,131.11	1/2	774.30	1/2	417.01	1/2	59.91	1/2		1/2		1/2		1/2	
3/4	1,838.24	3/4	1,480.94	3/4	1,123.67	3/4	766.86	3/4	409.56	3/4	53.40	3/4		3/4		3/4		3/4	
7	1,830.80	7	1,473.50	7	1,116.23	7	759.41	7	402.12	7	46.88	7		7		7		7	
1/4	1,823.36	1/4	1,466.05	1/4	1,108.79	1/4	751.97	1/4	394.68	1/4	40.37	1/4		1/4		1/4		1/4	
1/2	1,815.91	1/2	1,458.61	1/2	1,101.35	1/2	744.52	1/2	387.23	1/2	33.86	1/2		1/2		1/2		1/2	
3/4	1,808.47	3/4	1,451.17	3/4	1,093.92	3/4	737.08	3/4	379.79	3/4	29.21	3/4		3/4		3/4		3/4	
8	1,801.03	8	1,443.72	8	1,086.49	8	729.64	8	372.34	8	24.56	8		8		8		8	
1/4	1,793.58	1/4	1,436.28	1/4	1,079.07	1/4	722.19	1/4	364.90	1/4	19.90	1/4		1/4		1/4		1/4	
1/2	1,786.14	1/2	1,428.84	1/2	1,071.64	1/2	714.75	1/2	357.46	1/2	15.25	1/2		1/2		1/2		1/2	
3/4	1,778.69	3/4	1,421.39	3/4	1,064.21	3/4	707.31	3/4	350.01	3/4		3/4		3/4		3/4		3/4	
9	1,771.25	9	1,413.95	9	1,056.78	9	699.86	9	342.57	9		9		9		9		9	
1/4	1,763.81	1/4	1,406.50	1/4	1,049.35	1/4	692.42	1/4	335.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,756.36	1/2	1,399.06	1/2	1,041.92	1/2	684.98	1/2	327.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,748.92	3/4	1,391.62	3/4	1,034.49	3/4	677.53	3/4	320.24	3/4		3/4		3/4		3/4		3/4	
10	1,741.48	10	1,384.17	10	1,027.06	10	670.09	10	312.80	10		10		10		10		10	
1/4	1,734.03	1/4	1,376.73	1/4	1,019.63	1/4	662.64	1/4	305.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,726.59	1/2	1,369.29	1/2	1,012.20	1/2	655.20	1/2	297.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,719.14	3/4	1,361.84	3/4	1,004.77	3/4	647.76	3/4	290.46	3/4		3/4		3/4		3/4		3/4	
11	1,711.70	11	1,354.40	11	997.35	11	640.31	11	283.02	11		11		11		11		11	
1/4	1,704.26	1/4	1,346.95	1/4	989.92	1/4	632.87	1/4	275.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,696.81	1/2	1,339.51	1/2	982.49	1/2	625.43	1/2	268.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,689.37	3/4	1,332.07	3/4	975.06	3/4	617.98	3/4	260.69	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/21/2018 CL
CALCULATED: 01/07/2019 CL
PRINTED: 01/07/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2019

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