BARGE "E2MS 311"

ULLAGE (10" HATCH)

	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	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
2 STBD	- 02-0/8	02-0/8	- 04-1/8	04-1/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/4	12-1/4
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(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 08-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

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

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0	5,041.41	0	4,739.60	0	4,382.94	0	4,026.28	0	3,668.69	0	3,310.98	0	2,953.28
1/4		1/4		1/4		1/4	5,039.33	1/4	4,732.17	1/4	4,375.51	1/4	4,018.85	1/4	3,661.23	1/4	3,303.53	1/4	2,945.83
1/2		1/2		1/2		1/2	5,037.25	1/2	4,724.74	1/2	4,368.08	1/2	4,011.42	1/2	3,653.78	1/2	3,296.08	1/2	2,938.38
3/4		3/4		3/4		3/4	5,035.18	3/4	4,717.31	3/4	4,360.65	3/4	4,003.99	3/4	3,646.33	3/4	3,288.63	3/4	2,930.93
1		1		1		1	5,031.85	1	4,709.88	1	4,353.22	1	3,996.55	1	3,638.88	1	3,281.18	1	2,923.48
1/4		1/4		1/4		1/4	5,028.53	1/4	4,702.45	1/4	4,345.79	1/4	3,989.11	1/4	3,631.42	1/4	3,273.72	1/4	2,916.02
1/2		1/2		1/2		1/2	5,025.21	1/2	4,695.02	1/2	4,338.36	1/2	3,981.66	1/2	3,623.97	1/2	3,266.27	1/2	2,908.57
3/4		3/4		3/4		3/4	5,021.89	3/4	4,687.59	3/4	4,330.93	3/4	3,974.22	3/4	3,616.52	3/4	3,258.82	3/4	2,901.12
2		2		2		2	5,017.33	2	4,680.16	2	4,323.50	2	3,966.77	2	3,609.07	2	3,251.37	2	2,893.67
1/4		1/4		1/4		1/4	5,012.76	1/4	4,672.73	1/4	4,316.07	1/4	3,959.32	1/4	3,601.62	1/4	3,243.92	1/4	2,886.21
1/2		1/2		1/2		1/2	5,008.20	1/2	4,665.30	1/2	4,308.64	1/2	3,951.87	1/2	3,594.16	1/2	3,236.46	1/2	2,878.76
3/4		3/4		3/4		3/4	5,003.64	3/4	4,657.87	3/4	4,301.21	3/4	3,944.41	3/4	3,586.71	3/4	3,229.01	3/4	2,871.31
3		3		3		3	4,997.83	3	4,650.44	3	4,293.78	3	3,936.96	3	3,579.26	3	3,221.56	3	2,863.86
1/4		1/4		1/4		1/4	4,992.03	1/4	4,643.01	1/4	4,286.35	1/4	3,929.51	1/4	3,571.81	1/4	3,214.11	1/4	2,856.41
1/2		1/2		1/2		1/2	4,986.22	1/2	4,635.58	1/2	4,278.92	1/2	3,922.06	1/2	3,564.36	1/2	3,206.66	1/2	2,848.95
3/4		3/4		3/4		3/4	4,980.41	3/4	4,628.15	3/4	4,271.49	3/4	3,914.60	3/4	3,556.90	3/4	3,199.20	3/4	2,841.50
4		4		4		4	4,973.56	4	4,620.72	4	4,264.06	4	3,907.15	4	3,549.45	4	3,191.75	4	2,834.05
1/4		1/4		1/4		1/4	4,966.70	1/4	4,613.29	1/4	4,256.63	1/4	3,899.70	1/4	3,542.00	1/4	3,184.30	1/4	2,826.60
1/2		1/2		1/2		1/2	4,959.84	1/2	4,605.85	1/2	4,249.20	1/2	3,892.25	1/2	3,534.55	1/2	3,176.85	1/2	2,819.15
3/4		3/4		3/4		3/4	4,952.98	3/4	4,598.42	3/4	4,241.77	3/4	3,884.80	3/4	3,527.10	3/4	3,169.39	3/4	2,811.69
5		5		5		5	4,945.67	5	4,590.99	5	4,234.33	5	3,877.34	5	3,519.64	5	3,161.94	5	2,804.24
1/4		1/4		1/4		1/4	4,938.35	1/4	4,583.56	1/4	4,226.90	1/4	3,869.89	1/4	3,512.19	1/4	3,154.49	1/4	2,796.79
1/2		1/2		1/2		1/2	4,931.04	1/2	4,576.13	1/2	4,219.47	1/2	3,862.44	1/2	3,504.74	1/2	3,147.04	1/2	2,789.34
3/4		3/4		3/4		3/4	4,923.72	3/4	4,568.70	3/4	4,212.04	3/4	3,854.99	3/4	3,497.29	3/4	3,139.59	3/4	2,781.89
6		6		6		6	4,916.37	6	4,561.27	6	4,204.61	6	3,847.54	6	3,489.84	6	3,132.13	6	2,774.43
1/4		1/4		1/4		1/4	4,909.02	1/4	4,553.84	1/4	4,197.18	1/4	3,840.08	1/4	3,482.38	1/4	3,124.68	1/4	2,766.98
1/2		1/2		1/2		1/2	4,901.67	1/2	4,546.41	1/2	4,189.75	1/2	3,832.63	1/2	3,474.93	1/2	3,117.23	1/2	2,759.53
3/4		3/4		3/4		3/4	4,894.32	3/4	4,538.98	3/4	4,182.32	3/4	3,825.18	3/4	3,467.48	3/4	3,109.78	3/4	2,752.08
7		7		7		7	4,886.96	7	4,531.55	7	4,174.89	7	3,817.73	7	3,460.03	7	3,102.33	7	2,744.63
1/4		1/4		1/4		1/4	4,879.61	1/4	4,524.12	1/4	4,167.46	1/4	3,810.28	1/4	3,452.57	1/4	3,094.87	1/4	2,737.17
1/2		1/2		1/2		1/2	4,872.25	1/2	4,516.69	1/2	4,160.03	1/2	3,802.82	1/2	3,445.12	1/2	3,087.42	1/2	2,729.72
3/4		3/4		3/4		3/4	4,864.89	3/4	4,509.26	3/4	4,152.60	3/4	3,795.37	3/4	3,437.67	3/4	3,079.97	3/4	2,722.27
8		8		8		8	4,857.54	8	4,501.83	8	4,145.17	8	3,787.92	8	3,430.22	8	3,072.52	8	2,714.82
1/4		1/4		1/4		1/4	4,850.18	1/4	4,494.40	1/4	4,137.74	1/4	3,780.47	1/4	3,422.77	1/4	3,065.07	1/4	2,707.36
1/2		1/2		1/2		1/2	4,842.82	1/2	4,486.97	1/2	4,130.31	1/2	3,773.01	1/2	3,415.31	1/2	3,057.61	1/2	2,699.91
3/4		3/4		3/4		3/4	4,835.46	3/4	4,479.54	3/4	4,122.88	3/4	3,765.56	3/4	3,407.86	3/4	3,050.16	3/4	2,692.46
9		9		9		9	4,828.10	9	4,472.11	9	4,115.45	9	3,758.11	9	3,400.41	9	3,042.71	9	2,685.01
1/4		1/4		1/4		1/4	4,820.75	1/4	4,464.68	1/4	4,108.02	1/4	3,750.66	1/4	3,392.96	1/4	3,035.26	1/4	2,677.56
1/2		1/2		1/2		1/2	4,813.39	1/2	4,457.25	1/2	4,100.59	1/2	3,743.21	1/2	3,385.51	1/2	3,027.80	1/2	2,670.10
3/4		3/4		3/4		3/4	4,806.03	3/4	4,449.82	3/4	4,093.16	3/4	3,735.75	3/4	3,378.05	3/4	3,020.35	3/4	2,662.65
10		10		10		10	4,798.68	10	4,442.39	10	4,085.73	10	3,728.30	10	3,370.60	10	3,012.90	10	2,655.20
1/4		1/4		1/4		1/4	4,791.32	1/4	4,434.96	1/4	4,078.30	1/4	3,720.85	1/4	3,363.15	1/4	3,005.45	1/4	2,647.75
1/2		1/2		1/2		1/2	4,783.96	1/2	4,427.53	1/2	4,070.87	1/2	3,713.40	1/2	3,355.70	1/2	2,998.00	1/2	2,640.30
3/4		3/4		3/4		3/4	4,776.61	3/4	4,420.09	3/4	4,063.44	3/4	3,705.95	3/4	3,348.25	3/4	2,990.54	3/4	2,632.84
11		11		11		11	4,769.21	11	4,412.66	11	4,056.01	11	3,698.49	11	3,340.79	11	2,983.09	11	2,625.39
1/4		1/4		1/4		1/4	4,761.82	1/4	4,405.23	1/4	4,048.57	1/4	3,691.04	1/4	3,333.34	1/4	2,975.64	1/4	2,617.94
1/2		1/2		1/2		1/2	4,754.43	1/2	4,397.80	1/2	4,041.14	1/2	3,683.59	1/2	3,325.89	1/2	2,968.19	1/2	2,610.49
3/4		3/4		3/4	5,043.49	3/4	4,747.03	3/4	4,390.37	3/4	4,033.71	3/4	3,676.14	3/4	3,318.44	3/4	2,960.74	3/4	2,603.04

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

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

BARGE "E2MS 311"

1 PORT

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,595.58	0	2,237.78	0	1,879.98	0	1,522.18	0	1,164.37	0	808.85	0	451.97	0	126.71	0		0	
1/4	2,588.13	1/4	2,230.32	1/4	1,872.52	1/4	1,514.72	1/4	1,156.92	1/4	801.45	1/4	444.69	1/4	120.48	1/4		1/4	
1/2	2,580.67	1/2	2,222.87	1/2	1,865.07	1/2	1,507.27	1/2	1,149.47	1/2	794.05	1/2	437.41	1/2	114.25	1/2		1/2	
3/4	2,573.22	3/4	2,215.42	3/4	1,857.61	3/4	1,499.81	3/4	1,142.01	3/4	786.65	3/4	430.13	3/4	108.02	3/4		3/4	
1	2,565.76	1	2,207.96	1	1,850.16	1	1,492.36	1	1,134.57	1	779.22	1	422.94	1	101.88	1		1	
1/4	2,558.31	1/4	2,200.51	1/4	1,842.71	1/4	1,484.90	1/4	1,127.13	1/4	771.79	1/4	415.75	1/4	95.75	1/4		1/4	
1/2	2,550.86	1/2	2,193.05	1/2	1,835.25	1/2	1,477.45	1/2	1,119.70	1/2	764.36	1/2	408.56	1/2	89.61	1/2		1/2	
3/4	2,543.40	3/4	2,185.60	3/4	1,827.80	3/4	1,470.00	3/4	1,112.26	3/4	756.93	3/4	401.37	3/4	83.48	3/4		3/4	
2	2,535.95	2	2,178.15	2	1,820.34	2	1,462.54	2	1,104.83	2	749.48	2	394.26	2	77.44	2		2	
1/4	2,528.49	1/4	2,170.69	1/4	1,812.89	1/4	1,455.09	1/4	1,097.41	1/4	742.02	1/4	387.16	1/4	71.41	1/4		1/4	
1/2	2,521.04	1/2	2,163.24	1/2	1,805.44	1/2	1,447.63	1/2	1,089.99	1/2	734.57	1/2	380.05	1/2	65.38	1/2		1/2	
3/4	2,513.58	3/4	2,155.78	3/4	1,797.98	3/4	1,440.18	3/4	1,082.57	3/4	727.11	3/4	372.95	3/4	59.35	3/4		3/4	
3	2,506.13	3	2,148.33	3	1,790.53	3	1,432.73	3	1,075.15	3	719.66	3	365.93	3	53.87	3		3	
1/4	2,498.68	1/4	2,140.87	1/4	1,783.07	1/4	1,425.27	1/4	1,067.74	1/4	712.21	1/4	358.92	1/4	48.39	1/4		1/4	
1/2	2,491.22	1/2	2,133.42	1/2	1,775.62	1/2	1,417.82	1/2	1,060.33	1/2	704.75	1/2	351.90	1/2	42.90	1/2		1/2	
3/4	2,483.77	3/4	2,125.97	3/4	1,768.16	3/4	1,410.36	3/4	1,052.91	3/4	697.30	3/4	344.88	3/4	37.42	3/4		3/4	
4	2,476.31	4	2,118.51	4	1,760.71	4	1,402.91	4	1,045.51	4	689.84	4	337.95	4	33.40	4		4	
1/4	2,468.86	1/4	2,111.06	1/4	1,753.26	1/4	1,395.45	1/4	1,038.11	1/4	682.39	1/4	331.02	1/4	29.39	1/4		1/4	
1/2	2,461.40	1/2	2,103.60	1/2	1,745.80	1/2	1,388.00	1/2	1,030.71	1/2	674.94	1/2	324.09	1/2	25.37	1/2		1/2	
3/4	2,453.95	3/4	2,096.15	3/4	1,738.35	3/4	1,380.55	3/4	1,023.31	3/4	667.48	3/4	317.16	3/4	21.36	3/4		3/4	
5	2,446.50	5	2,088.69	5	1,730.89	5	1,373.09	5	1,015.92	5	660.03	5	310.32	5	18.44	5		5	
1/4	2,439.04	1/4	2,081.24	1/4	1,723.44	1/4	1,365.64	1/4	1,008.52	1/4	652.57	1/4	303.48	1/4	15.52	1/4		1/4	
1/2	2,431.59	1/2	2,073.79	1/2	1,715.98	1/2	1,358.18	1/2	1,001.13	1/2	645.12	1/2	296.64	1/2	12.60	1/2		1/2	
3/4	2,424.13	3/4	2,066.33	3/4	1,708.53	3/4	1,350.73	3/4	993.73	3/4	637.67	3/4	289.80	3/4	9.69	3/4		3/4	
6	2,416.68	6	2,058.88	6	1,701.08	6	1,343.27	6	986.34	6	630.21	6	283.04	6	7.82	6		6	
1/4	2,409.23	1/4	2,051.42	1/4	1,693.62	1/4	1,335.82	1/4	978.94	1/4	622.76	1/4	276.29	1/4	5.96	1/4		1/4	
1/2	2,401.77	1/2	2,043.97	1/2	1,686.17	1/2	1,328.37	1/2	971.55	1/2	615.30	1/2	269.53	1/2	4.10	1/2		1/2	
3/4	2,394.32	3/4	2,036.52	3/4	1,678.71	3/4	1,320.91	3/4	964.15	3/4	607.85	3/4	262.78	3/4	2.23	3/4		3/4	
7	2,386.86	7	2,029.06	7	1,671.26	7	1,313.46	7	956.76	7	600.40	7	256.11	7		7		7	
1/4	2,379.41	1/4	2,021.61	1/4	1,663.81	1/4	1,306.00	1/4	949.36	1/4	592.95	1/4	249.44	1/4		1/4		1/4	
1/2	2,371.95	1/2	2,014.15	1/2	1,656.35	1/2	1,298.55	1/2	941.96	1/2	585.50	1/2	242.78	1/2		1/2		1/2	
3/4	2,364.50	3/4	2,006.70	3/4	1,648.90	3/4	1,291.10	3/4	934.57	3/4	578.05	3/4	236.11	3/4		3/4		3/4	
8	2,357.05	8	1,999.24	8	1,641.44	8	1,283.64	8	927.17	8	570.60	8	229.53	8		8		8	
1/4	2,349.59	1/4	1,991.79	1/4	1,633.99	1/4	1,276.19	1/4	919.78	1/4	563.15	1/4	222.95	1/4		1/4		1/4	
1/2	2,342.14	1/2	1,984.34	1/2	1,626.53	1/2	1,268.73	1/2	912.38	1/2	555.70	1/2	216.37	1/2		1/2		1/2	
3/4	2,334.68	3/4	1,976.88	3/4	1,619.08	3/4	1,261.28	3/4	904.99	3/4	548.25	3/4	209.79	3/4		3/4		3/4	
9	2,327.23	9	1,969.43	9	1,611.63	9	1,253.82	9	897.59	9	540.80	9	203.30	9		9		9	
1/4	2,319.78	1/4	1,961.97	1/4	1,604.17	1/4	1,246.37	1/4	890.20	1/4	533.35	1/4	196.81	1/4		1/4		1/4	
1/2	2,312.32	1/2	1,954.52	1/2	1,596.72	1/2	1,238.92	1/2	882.80	1/2	525.90	1/2	190.32	1/2		1/2		1/2	
3/4	2,304.87	3/4	1,947.07	3/4	1,589.26	3/4	1,231.46	3/4	875.41	3/4	518.45	3/4	183.82	3/4		3/4		3/4	
10	2,297.41	10	1,939.61	10	1,581.81	10	1,224.01	10	868.01	10	511.01	10	177.42	10		10		10	
1/4	2,289.96	1/4	1,932.16	1/4	1,574.36	1/4	1,216.55	1/4	860.62	1/4	503.58	1/4	171.02	1/4		1/4		1/4	
1/2	2,282.50	1/2	1,924.70	1/2	1,566.90	1/2	1,209.10	1/2	853.22	1/2	496.15	1/2	164.61	1/2		1/2		1/2	
3/4	2,275.05	3/4	1,917.25	3/4	1,559.45	3/4	1,201.65	3/4	845.83	3/4	488.72	3/4	158.21	3/4		3/4		3/4	
11	2,267.60	11	1,909.79	11	1,551.99	11	1,194.19	11	838.43	11	481.35	11	151.89	11		11		11	
1/4	2,260.14	1/4	1,902.34	1/4	1,544.54	1/4	1,186.74	1/4	831.04	1/4	473.98	1/4	145.57	1/4		1/4		1/4	
1/2	2,252.69	1/2	1,894.89	1/2	1,537.08	1/2	1,179.28	1/2	823.64	1/2	466.62	1/2	139.25	1/2		1/2		1/2	
3/4	2,245.23	3/4	1,887.43	3/4	1,529.63	3/4	1,171.83	3/4	816.24	3/4	459.25	3/4	132.94	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

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0	5,040.74	0	4,739.10	0	4,382.64	0	4,026.17	0	3,668.77	0	3,311.26	0	2,953.75
1/4		1/4		1/4		1/4	5,038.67	1/4	4,731.68	1/4	4,375.21	1/4	4,018.74	1/4	3,661.32	1/4	3,303.81	1/4	2,946.30
1/2		1/2		1/2		1/2	5,036.59	1/2	4,724.25	1/2	4,367.78	1/2	4,011.32	1/2	3,653.87	1/2	3,296.36	1/2	2,938.85
3/4		3/4		3/4		3/4	5,034.51	3/4	4,716.82	3/4	4,360.36	3/4	4,003.89	3/4	3,646.42	3/4	3,288.91	3/4	2,931.40
1		1		1		1	5,031.19	1	4,709.40	1	4,352.93	1	3,996.45	1	3,638.97	1	3,281.47	1	2,923.96
1/4		1/4		1/4		1/4	5,027.87	1/4	4,701.97	1/4	4,345.50	1/4	3,989.01	1/4	3,631.53	1/4	3,274.02	1/4	2,916.51
1/2		1/2		1/2		1/2	5,024.55	1/2	4,694.54	1/2	4,338.08	1/2	3,981.58	1/2	3,624.08	1/2	3,266.57	1/2	2,909.06
3/4		3/4		3/4		3/4	5,021.23	3/4	4,687.12	3/4	4,330.65	3/4	3,974.14	3/4	3,616.63	3/4	3,259.12	3/4	2,901.61
2		2		2		2	5,016.67	2	4,679.69	2	4,323.22	2	3,966.69	2	3,609.18	2	3,251.67	2	2,894.16
1/4		1/4		1/4		1/4	5,012.11	1/4	4,672.26	1/4	4,315.80	1/4	3,959.24	1/4	3,601.73	1/4	3,244.22	1/4	2,886.72
1/2		1/2		1/2		1/2	5,007.55	1/2	4,664.84	1/2	4,308.37	1/2	3,951.79	1/2	3,594.29	1/2	3,236.78	1/2	2,879.27
3/4		3/4		3/4		3/4	5,002.99	3/4	4,657.41	3/4	4,300.94	3/4	3,944.35	3/4	3,586.84	3/4	3,229.33	3/4	2,871.82
3		3		3		3	4,997.19	3	4,649.99	3	4,293.52	3	3,936.90	3	3,579.39	3	3,221.88	3	2,864.37
1/4		1/4		1/4		1/4	4,991.39	1/4	4,642.56	1/4	4,286.09	1/4	3,929.45	1/4	3,571.94	1/4	3,214.43	1/4	2,856.92
1/2		1/2		1/2		1/2	4,985.58	1/2	4,635.13	1/2	4,278.67	1/2	3,922.00	1/2	3,564.49	1/2	3,206.98	1/2	2,849.48
3/4		3/4		3/4		3/4	4,979.78	3/4	4,627.71	3/4	4,271.24	3/4	3,914.55	3/4	3,557.05	3/4	3,199.54	3/4	2,842.03
4		4		4		4	4,972.93	4	4,620.28	4	4,263.81	4	3,907.11	4	3,549.60	4	3,192.09	4	2,834.58
1/4		1/4		1/4		1/4	4,966.07	1/4	4,612.85	1/4	4,256.39	1/4	3,899.66	1/4	3,542.15	1/4	3,184.64	1/4	2,827.13
1/2		1/2		1/2		1/2	4,959.22	1/2	4,605.43	1/2	4,248.96	1/2	3,892.21	1/2	3,534.70	1/2	3,177.19	1/2	2,819.68
3/4		3/4		3/4		3/4	4,952.36	3/4	4,598.00	3/4	4,241.53	3/4	3,884.76	3/4	3,527.25	3/4	3,169.74	3/4	2,812.24
5		5		5		5	4,945.05	5	4,590.57	5	4,234.11	5	3,877.31	5	3,519.80	5	3,162.30	5	2,804.79
1/4		1/4		1/4		1/4	4,937.74	1/4	4,583.15	1/4	4,226.68	1/4	3,869.87	1/4	3,512.36	1/4	3,154.85	1/4	2,797.34
1/2		1/2		1/2		1/2	4,930.43	1/2	4,575.72	1/2	4,219.25	1/2	3,862.42	1/2	3,504.91	1/2	3,147.40	1/2	2,789.89
3/4		3/4		3/4		3/4	4,923.12	3/4	4,568.30	3/4	4,211.83	3/4	3,854.97	3/4	3,497.46	3/4	3,139.95	3/4	2,782.44
6		6		6		6	4,915.77	6	4,560.87	6	4,204.40	6	3,847.52	6	3,490.01	6	3,132.50	6	2,774.99
1/4		1/4		1/4		1/4	4,908.42	1/4	4,553.44	1/4	4,196.98	1/4	3,840.07	1/4	3,482.56	1/4	3,125.06	1/4	2,767.55
1/2		1/2		1/2		1/2	4,901.08	1/2	4,546.02	1/2	4,189.55	1/2	3,832.62	1/2	3,475.12	1/2	3,117.61	1/2	2,760.10
3/4		3/4		3/4		3/4	4,893.73	3/4	4,538.59	3/4	4,182.12	3/4	3,825.18	3/4	3,467.67	3/4	3,110.16	3/4	2,752.65
7		7		7		7	4,886.38	7	4,531.16	7	4,174.70	7	3,817.73	7	3,460.22	7	3,102.71	7	2,745.20
1/4		1/4		1/4		1/4	4,879.03	1/4	4,523.74	1/4	4,167.27	1/4	3,810.28	1/4	3,452.77	1/4	3,095.26	1/4	2,737.75
1/2		1/2		1/2		1/2	4,871.68	1/2	4,516.31	1/2	4,159.84	1/2	3,802.83	1/2	3,445.32	1/2	3,087.81	1/2	2,730.31
3/4		3/4		3/4		3/4	4,864.32	3/4	4,508.88	3/4	4,152.42	3/4	3,795.38	3/4	3,437.88	3/4	3,080.37	3/4	2,722.86
8		8		8		8	4,856.97	8	4,501.46	8	4,144.99	8	3,787.94	8	3,430.43	8	3,072.92	8	2,715.41
1/4		1/4		1/4		1/4	4,849.62	1/4	4,494.03	1/4	4,137.56	1/4	3,780.49	1/4	3,422.98	1/4	3,065.47	1/4	2,707.96
1/2		1/2		1/2		1/2	4,842.26	1/2	4,486.60	1/2	4,130.14	1/2	3,773.04	1/2	3,415.53	1/2	3,058.02	1/2	2,700.51
3/4		3/4		3/4		3/4	4,834.91	3/4	4,479.18	3/4	4,122.71	3/4	3,765.59	3/4	3,408.08	3/4	3,050.57	3/4	2,693.07
9		9		9		9	4,827.56	9	4,471.75	9	4,115.28	9	3,758.14	9	3,400.64	9	3,043.13	9	2,685.62
1/4		1/4		1/4		1/4	4,820.20	1/4	4,464.33	1/4	4,107.86	1/4	3,750.70	1/4	3,393.19	1/4	3,035.68	1/4	2,678.17
1/2		1/2		1/2		1/2	4,812.85	1/2	4,456.90	1/2	4,100.43	1/2	3,743.25	1/2	3,385.74	1/2	3,028.23	1/2	2,670.72
3/4		3/4		3/4		3/4	4,805.50	3/4	4,449.47	3/4	4,093.01	3/4	3,735.80	3/4	3,378.29	3/4	3,020.78	3/4	2,663.27
10		10		10		10	4,798.14	10	4,442.05	10	4,085.58	10	3,728.35	10	3,370.84	10	3,013.33	10	2,655.83
1/4		1/4		1/4		1/4	4,790.79	1/4	4,434.62	1/4	4,078.15	1/4	3,720.90	1/4	3,363.39	1/4	3,005.89	1/4	2,648.38
1/2		1/2		1/2		1/2	4,783.44	1/2	4,427.19	1/2	4,070.73	1/2	3,713.46	1/2	3,355.95	1/2	2,998.44	1/2	2,640.93
3/4		3/4		3/4		3/4	4,776.09	3/4	4,419.77	3/4	4,063.30	3/4	3,706.01	3/4	3,348.50	3/4	2,990.99	3/4	2,633.48
11		11		11		11	4,768.70	11	4,412.34	11	4,055.87	11	3,698.56	11	3,341.05	11	2,983.54	11	2,626.03
1/4		1/4		1/4		1/4	4,761.31	1/4	4,404.91	1/4	4,048.45	1/4	3,691.11	1/4	3,333.60	1/4	2,976.09	1/4	2,618.58
1/2		1/2		1/2		1/2	4,753.92	1/2	4,397.49	1/2	4,041.02	1/2	3,683.66	1/2	3,326.15	1/2	2,968.65	1/2	2,611.14
3/4		3/4		3/4	5,042.82	3/4	4,746.53	3/4	4,390.06	3/4	4,033.59	3/4	3,676.21	3/4	3,318.71	3/4	2,961.20	3/4	2,603.69

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" 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

10" HATCH

GAUGE HEIGHT 17'-06 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,596.24	0	2,238.63	0	1,881.02	0	1,523.41	0	1,165.80	0	808.67	0	451.69	0	126.62	0		0	
1/4	2,588.79	1/4	2,231.18	1/4	1,873.57	1/4	1,515.96	1/4	1,158.35	1/4	801.23	1/4	444.42	1/4	120.39	1/4		1/4	
1/2	2,581.34	1/2	2,223.73	1/2	1,866.12	1/2	1,508.51	1/2	1,150.90	1/2	793.78	1/2	437.14	1/2	114.17	1/2		1/2	
3/4	2,573.89	3/4	2,216.28	3/4	1,858.67	3/4	1,501.06	3/4	1,143.45	3/4	786.34	3/4	429.87	3/4	107.94	3/4		3/4	
1	2,566.44	1	2,208.83	1	1,851.22	1	1,493.61	1	1,136.00	1	778.89	1	422.68	1	101.81	1		1	
1/4	2,558.99	1/4	2,201.38	1/4	1,843.77	1/4	1,486.16	1/4	1,128.55	1/4	771.44	1/4	415.49	1/4	95.68	1/4		1/4	
1/2	2,551.54	1/2	2,193.93	1/2	1,836.32	1/2	1,478.71	1/2	1,121.10	1/2	763.99	1/2	408.31	1/2	89.55	1/2		1/2	
3/4	2,544.09	3/4	2,186.48	3/4	1,828.87	3/4	1,471.26	3/4	1,113.65	3/4	756.54	3/4	401.12	3/4	83.41	3/4		3/4	
2	2,536.64	2	2,179.03	2	1,821.42	2	1,463.81	2	1,106.20	2	749.09	2	394.02	2	77.39	2		2	
1/4	2,529.19	1/4	2,171.58	1/4	1,813.97	1/4	1,456.36	1/4	1,098.76	1/4	741.64	1/4	386.92	1/4	71.36	1/4		1/4	
1/2	2,521.74	1/2	2,164.13	1/2	1,806.52	1/2	1,448.91	1/2	1,091.31	1/2	734.19	1/2	379.82	1/2	65.33	1/2		1/2	
3/4	2,514.29	3/4	2,156.68	3/4	1,799.07	3/4	1,441.46	3/4	1,083.86	3/4	726.74	3/4	372.72	3/4	59.30	3/4		3/4	
3	2,506.84	3	2,149.23	3	1,791.62	3	1,434.01	3	1,076.42	3	719.29	3	365.70	3	53.83	3		3	
1/4	2,499.39	1/4	2,141.78	1/4	1,784.17	1/4	1,426.56	1/4	1,068.97	1/4	711.84	1/4	358.69	1/4	48.35	1/4		1/4	
1/2	2,491.94	1/2	2,134.33	1/2	1,776.72	1/2	1,419.11	1/2	1,061.53	1/2	704.39	1/2	351.68	1/2	42.87	1/2		1/2	
3/4	2,484.49	3/4	2,126.88	3/4	1,769.27	3/4	1,411.66	3/4	1,054.08	3/4	696.94	3/4	344.66	3/4	37.39	3/4		3/4	
4	2,477.04	4	2,119.43	4	1,761.82	4	1,404.21	4	1,046.64	4	689.49	4	337.74	4	33.38	4		4	
1/4	2,469.59	1/4	2,111.98	1/4	1,754.37	1/4	1,396.76	1/4	1,039.20	1/4	682.04	1/4	330.81	1/4	29.36	1/4		1/4	
1/2	2,462.14	1/2	2,104.53	1/2	1,746.92	1/2	1,389.31	1/2	1,031.76	1/2	674.59	1/2	323.89	1/2	25.35	1/2		1/2	
3/4	2,454.69	3/4	2,097.08	3/4	1,739.47	3/4	1,381.86	3/4	1,024.32	3/4	667.14	3/4	316.96	3/4	21.34	3/4		3/4	
5	2,447.24	5	2,089.63	5	1,732.02	5	1,374.41	5	1,016.89	5	659.69	5	310.12	5	18.42	5		5	
1/4	2,439.79	1/4	2,082.18	1/4	1,724.57	1/4	1,366.96	1/4	1,009.45	1/4	652.24	1/4	303.29	1/4	15.51	1/4		1/4	
1/2	2,432.34	1/2	2,074.73	1/2	1,717.12	1/2	1,359.51	1/2	1,002.01	1/2	644.79	1/2	296.45	1/2	12.59	1/2		1/2	
3/4	2,424.89	3/4	2,067.28	3/4	1,709.67	3/4	1,352.06	3/4	994.58	3/4	637.34	3/4	289.61	3/4	9.67	3/4		3/4	
6	2,417.44	6	2,059.83	6	1,702.22	6	1,344.61	6	987.14	6	629.89	6	282.86	6	7.81	6		6	
1/4	2,409.99	1/4	2,052.38	1/4	1,694.77	1/4	1,337.16	1/4	979.71	1/4	622.44	1/4	276.11	1/4	5.95	1/4		1/4	
1/2	2,402.54	1/2	2,044.93	1/2	1,687.32	1/2	1,329.71	1/2	972.27	1/2	614.99	1/2	269.36	1/2	4.09	1/2		1/2	
3/4	2,395.09	3/4	2,037.48	3/4	1,679.87	3/4	1,322.26	3/4	964.83	3/4	607.54	3/4	262.61	3/4	2.23	3/4		3/4	
7	2,387.64	7	2,030.03	7	1,672.42	7	1,314.81	7	957.40	7	600.09	7	255.95	7		7		7	
1/4	2,380.19	1/4	2,022.58	1/4	1,664.97	1/4	1,307.36	1/4	949.96	1/4	592.64	1/4	249.28	1/4		1/4		1/4	
1/2	2,372.74	1/2	2,015.13	1/2	1,657.52	1/2	1,299.91	1/2	942.53	1/2	585.19	1/2	242.62	1/2		1/2		1/2	
3/4	2,365.29	3/4	2,007.68	3/4	1,650.07	3/4	1,292.46	3/4	935.09	3/4	577.74	3/4	235.96	3/4		3/4		3/4	
8	2,357.84	8	2,000.23	8	1,642.62	8	1,285.01	8	927.65	8	570.29	8	229.38	8		8		8	
1/4	2,350.39	1/4	1,992.78	1/4	1,635.17	1/4	1,277.56	1/4	920.22	1/4	562.84	1/4	222.80	1/4		1/4		1/4	
1/2	2,342.94	1/2	1,985.33	1/2	1,627.72	1/2	1,270.11	1/2	912.78	1/2	555.39	1/2	216.23	1/2		1/2		1/2	
3/4	2,335.49	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	209.65	3/4		3/4		3/4	
9	2,328.03	9	1,970.43	9	1,612.82	9	1,255.21	9	897.91	9	540.48	9	203.17	9		9		9	
1/4	2,320.58	1/4	1,962.98	1/4	1,605.37	1/4	1,247.76	1/4	890.47	1/4	533.03	1/4	196.68	1/4		1/4		1/4	
1/2	2,313.13	1/2	1,955.52	1/2	1,597.92	1/2	1,240.31	1/2	883.04	1/2	525.58	1/2	190.19	1/2		1/2		1/2	
3/4	2,305.68	3/4	1,948.07	3/4	1,590.47	3/4	1,232.86	3/4	875.60	3/4	518.13	3/4	183.70	3/4		3/4		3/4	
10	2,298.23	10	1,940.62	10	1,583.01	10	1,225.41	10	868.17	10	510.71	10	177.30	10		10		10	
1/4	2,290.78	1/4	1,933.17	1/4	1,575.56	1/4	1,217.96	1/4	860.73	1/4	503.28	1/4	170.90	1/4		1/4		1/4	
1/2	2,283.33	1/2	1,925.72	1/2	1,568.11	1/2	1,210.50	1/2	853.29	1/2	495.85	1/2	164.50	1/2		1/2		1/2	
3/4	2,275.88	3/4	1,918.27	3/4	1,560.66	3/4	1,203.05	3/4	845.86	3/4	488.42	3/4	158.10	3/4		3/4		3/4	
11	2,268.43	11	1,910.82	11	1,553.21	11	1,195.60	11	838.42	11	481.06	11	151.78	11		11		11	
1/4	2,260.98	1/4	1,903.37	1/4	1,545.76	1/4	1,188.15	1/4	830.99	1/4	473.70	1/4	145.47	1/4		1/4		1/4	
1/2	2,253.53	1/2	1,895.92	1/2	1,538.31	1/2	1,180.70	1/2	823.55	1/2	466.33	1/2	139.16	1/2		1/2		1/2	
3/4	2,246.08	3/4	1,888.47	3/4	1,530.86	3/4	1,173.25	3/4	816.11	3/4	458.97	3/4	132.84	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 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0	5,106.43	0	4,803.48	0	4,445.83	0	4,088.18	0	3,729.62	0	3,370.92	0	3,012.22
1/4		1/4		1/4		1/4	5,104.34	1/4	4,796.03	1/4	4,438.38	1/4	4,080.73	1/4	3,722.14	1/4	3,363.44	1/4	3,004.74
1/2		1/2		1/2		1/2	5,102.25	1/2	4,788.58	1/2	4,430.93	1/2	4,073.28	1/2	3,714.67	1/2	3,355.97	1/2	2,997.27
3/4		3/4		3/4		3/4	5,100.15	3/4	4,781.13	3/4	4,423.48	3/4	4,065.82	3/4	3,707.20	3/4	3,348.50	3/4	2,989.80
1		1		1		1	5,096.82	1	4,773.68	1	4,416.03	1	4,058.37	1	3,699.72	1	3,341.03	1	2,982.33
1/4		1/4		1/4		1/4	5,093.48	1/4	4,766.23	1/4	4,408.58	1/4	4,050.91	1/4	3,692.25	1/4	3,333.55	1/4	2,974.85
1/2		1/2		1/2		1/2	5,090.14	1/2	4,758.78	1/2	4,401.12	1/2	4,043.46	1/2	3,684.78	1/2	3,326.08	1/2	2,967.38
3/4		3/4		3/4		3/4	5,086.81	3/4	4,751.33	3/4	4,393.67	3/4	4,036.01	3/4	3,677.31	3/4	3,318.61	3/4	2,959.91
2		2		2		2	5,082.22	2	4,743.87	2	4,386.22	2	4,028.53	2	3,669.83	2	3,311.13	2	2,952.43
1/4		1/4		1/4		1/4	5,077.64	1/4	4,736.42	1/4	4,378.77	1/4	4,021.06	1/4	3,662.36	1/4	3,303.66	1/4	2,944.96
1/2		1/2		1/2		1/2	5,073.06	1/2	4,728.97	1/2	4,371.32	1/2	4,013.59	1/2	3,654.89	1/2	3,296.19	1/2	2,937.49
3/4		3/4		3/4		3/4	5,068.48	3/4	4,721.52	3/4	4,363.87	3/4	4,006.11	3/4	3,647.41	3/4	3,288.72	3/4	2,930.02
3		3		3		3	5,062.65	3	4,714.07	3	4,356.42	3	3,998.64	3	3,639.94	3	3,281.24	3	2,922.54
1/4		1/4		1/4		1/4	5,056.82	1/4	4,706.62	1/4	4,348.97	1/4	3,991.17	1/4	3,632.47	1/4	3,273.77	1/4	2,915.07
1/2		1/2		1/2		1/2	5,050.99	1/2	4,699.17	1/2	4,341.52	1/2	3,983.69	1/2	3,625.00	1/2	3,266.30	1/2	2,907.60
3/4		3/4		3/4		3/4	5,045.16	3/4	4,691.72	3/4	4,334.06	3/4	3,976.22	3/4	3,617.52	3/4	3,258.82	3/4	2,900.12
4		4		4		4	5,038.28	4	4,684.27	4	4,326.61	4	3,968.75	4	3,610.05	4	3,251.35	4	2,892.65
1/4		1/4		1/4		1/4	5,031.40	1/4	4,676.81	1/4	4,319.16	1/4	3,961.28	1/4	3,602.58	1/4	3,243.88	1/4	2,885.18
1/2		1/2		1/2		1/2	5,024.52	1/2	4,669.36	1/2	4,311.71	1/2	3,953.80	1/2	3,595.10	1/2	3,236.40	1/2	2,877.71
3/4		3/4		3/4		3/4	5,017.63	3/4	4,661.91	3/4	4,304.26	3/4	3,946.33	3/4	3,587.63	3/4	3,228.93	3/4	2,870.23
5		5		5		5	5,010.29	5	4,654.46	5	4,296.81	5	3,938.86	5	3,580.16	5	3,221.46	5	2,862.76
1/4		1/4		1/4		1/4	5,002.95	1/4	4,647.01	1/4	4,289.36	1/4	3,931.38	1/4	3,572.69	1/4	3,213.99	1/4	2,855.29
1/2		1/2		1/2		1/2	4,995.61	1/2	4,639.56	1/2	4,281.91	1/2	3,923.91	1/2	3,565.21	1/2	3,206.51	1/2	2,847.81
3/4		3/4		3/4		3/4	4,988.26	3/4	4,632.11	3/4	4,274.46	3/4	3,916.44	3/4	3,557.74	3/4	3,199.04	3/4	2,840.34
6		6		6		6	4,980.89	6	4,624.66	6	4,267.00	6	3,908.97	6	3,550.27	6	3,191.57	6	2,832.87
1/4		1/4		1/4		1/4	4,973.51	1/4	4,617.21	1/4	4,259.55	1/4	3,901.49	1/4	3,542.79	1/4	3,184.09	1/4	2,825.40
1/2		1/2		1/2		1/2	4,966.14	1/2	4,609.76	1/2	4,252.10	1/2	3,894.02	1/2	3,535.32	1/2	3,176.62	1/2	2,817.92
3/4		3/4		3/4		3/4	4,958.76	3/4	4,602.30	3/4	4,244.65	3/4	3,886.55	3/4	3,527.85	3/4	3,169.15	3/4	2,810.45
7		7		7		7	4,951.38	7	4,594.85	7	4,237.20	7	3,879.07	7	3,520.38	7	3,161.68	7	2,802.98
1/4		1/4		1/4		1/4	4,944.00	1/4	4,587.40	1/4	4,229.75	1/4	3,871.60	1/4	3,512.90	1/4	3,154.20	1/4	2,795.50
1/2		1/2		1/2		1/2	4,936.61	1/2	4,579.95	1/2	4,222.30	1/2	3,864.13	1/2	3,505.43	1/2	3,146.73	1/2	2,788.03
3/4		3/4		3/4		3/4	4,929.23	3/4	4,572.50	3/4	4,214.85	3/4	3,856.66	3/4	3,497.96	3/4	3,139.26	3/4	2,780.56
8		8		8		8	4,921.85	8	4,565.05	8	4,207.40	8	3,849.18	8	3,490.48	8	3,131.78	8	2,773.09
1/4		1/4		1/4		1/4	4,914.46	1/4	4,557.60	1/4	4,199.94	1/4	3,841.71	1/4	3,483.01	1/4	3,124.31	1/4	2,765.61
1/2		1/2		1/2		1/2	4,907.08	1/2	4,550.15	1/2	4,192.49	1/2	3,834.24	1/2	3,475.54	1/2	3,116.84	1/2	2,758.14
3/4		3/4		3/4		3/4	4,899.69	3/4	4,542.70	3/4	4,185.04	3/4	3,826.76	3/4	3,468.06	3/4	3,109.37	3/4	2,750.67
9		9		9		9	4,892.30	9	4,535.24	9	4,177.59	9	3,819.29	9	3,460.59	9	3,101.89	9	2,743.19
1/4		1/4		1/4		1/4	4,884.92	1/4	4,527.79	1/4	4,170.14	1/4	3,811.82	1/4	3,453.12	1/4	3,094.42	1/4	2,735.72
1/2		1/2		1/2		1/2	4,877.53	1/2	4,520.34	1/2	4,162.69	1/2	3,804.35	1/2	3,445.65	1/2	3,086.95	1/2	2,728.25
3/4		3/4		3/4		3/4	4,870.15	3/4	4,512.89	3/4	4,155.24	3/4	3,796.87	3/4	3,438.17	3/4	3,079.47	3/4	2,720.77
10		10		10		10	4,862.76	10	4,505.44	10	4,147.79	10	3,789.40	10	3,430.70	10	3,072.00	10	2,713.30
1/4		1/4		1/4		1/4	4,855.38	1/4	4,497.99	1/4	4,140.34	1/4	3,781.93	1/4	3,423.23	1/4	3,064.53	1/4	2,705.83
1/2		1/2		1/2		1/2	4,847.99	1/2	4,490.54	1/2	4,132.88	1/2	3,774.45	1/2	3,415.75	1/2	3,057.06	1/2	2,698.36
3/4		3/4		3/4		3/4	4,840.61	3/4	4,483.09	3/4	4,125.43	3/4	3,766.98	3/4	3,408.28	3/4	3,049.58	3/4	2,690.88
11		11		11		11	4,833.19	11	4,475.64	11	4,117.98	11	3,759.51	11	3,400.81	11	3,042.11	11	2,683.41
1/4		1/4		1/4		1/4	4,825.77	1/4	4,468.18	1/4	4,110.53	1/4	3,752.03	1/4	3,393.34	1/4	3,034.64	1/4	2,675.94
1/2		1/2		1/2		1/2	4,818.35	1/2	4,460.73	1/2	4,103.08	1/2	3,744.56	1/2	3,385.86	1/2	3,027.16	1/2	2,668.46
3/4		3/4		3/4	5,108.52	3/4	4,810.93	3/4	4,453.28	3/4	4,095.63	3/4	3,737.09	3/4	3,378.39	3/4	3,019.69	3/4	2,660.99

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" 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

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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	2,653.52	0	2,294.82	0	1,936.12	0	1,577.42	0	1,218.72	0	873.03	0	515.79	0	157.09	0		0	
1/4	2,646.05	1/4	2,287.35	1/4	1,928.65	1/4	1,569.95	1/4	1,211.25	1/4	865.86	1/4	508.32	1/4	149.62	1/4		1/4	
1/2	2,638.57	1/2	2,279.87	1/2	1,921.17	1/2	1,562.48	1/2	1,203.78	1/2	858.68	1/2	500.84	1/2	142.15	1/2		1/2	
3/4	2,631.10	3/4	2,272.40	3/4	1,913.70	3/4	1,555.00	3/4	1,196.30	3/4	851.50	3/4	493.37	3/4	134.67	3/4		3/4	
1	2,623.63	1	2,264.93	1	1,906.23	1	1,547.53	1	1,188.97	1	844.17	1	485.90	1	127.21	1		1	
1/4	2,616.15	1/4	2,257.45	1/4	1,898.76	1/4	1,540.06	1/4	1,181.64	1/4	836.84	1/4	478.42	1/4	119.74	1/4		1/4	
1/2	2,608.68	1/2	2,249.98	1/2	1,891.28	1/2	1,532.58	1/2	1,174.31	1/2	829.51	1/2	470.95	1/2	112.27	1/2		1/2	
3/4	2,601.21	3/4	2,242.51	3/4	1,883.81	3/4	1,525.11	3/4	1,166.98	3/4	822.18	3/4	463.48	3/4	104.81	3/4		3/4	
2	2,593.74	2	2,235.04	2	1,876.34	2	1,517.64	2	1,159.79	2	814.71	2	456.01	2	97.36	2		2	
1/4	2,586.26	1/4	2,227.56	1/4	1,868.86	1/4	1,510.16	1/4	1,152.61	1/4	807.23	1/4	448.53	1/4	89.91	1/4		1/4	
1/2	2,578.79	1/2	2,220.09	1/2	1,861.39	1/2	1,502.69	1/2	1,145.43	1/2	799.76	1/2	441.06	1/2	82.46	1/2		1/2	
3/4	2,571.32	3/4	2,212.62	3/4	1,853.92	3/4	1,495.22	3/4	1,138.25	3/4	792.29	3/4	433.59	3/4	75.01	3/4		3/4	
3	2,563.84	3	2,205.14	3	1,846.45	3	1,487.75	3	1,131.07	3	784.81	3	426.11	3	68.02	3		3	
1/4	2,556.37	1/4	2,197.67	1/4	1,838.97	1/4	1,480.27	1/4	1,123.90	1/4	777.34	1/4	418.64	1/4	61.04	1/4		1/4	
1/2	2,548.90	1/2	2,190.20	1/2	1,831.50	1/2	1,472.80	1/2	1,116.72	1/2	769.87	1/2	411.17	1/2	54.05	1/2		1/2	
3/4	2,541.43	3/4	2,182.73	3/4	1,824.03	3/4	1,465.33	3/4	1,109.55	3/4	762.40	3/4	403.70	3/4	47.06	3/4		3/4	
4	2,533.95	4	2,175.25	4	1,816.55	4	1,457.85	4	1,102.38	4	754.92	4	396.22	4	41.46	4		4	
1/4	2,526.48	1/4	2,167.78	1/4	1,809.08	1/4	1,450.38	1/4	1,095.21	1/4	747.45	1/4	388.75	1/4	35.85	1/4		1/4	
1/2	2,519.01	1/2	2,160.31	1/2	1,801.61	1/2	1,442.91	1/2	1,088.04	1/2	739.98	1/2	381.28	1/2	30.25	1/2		1/2	
3/4	2,511.53	3/4	2,152.83	3/4	1,794.14	3/4	1,435.44	3/4	1,080.87	3/4	732.50	3/4	373.80	3/4	24.65	3/4		3/4	
5	2,504.06	5	2,145.36	5	1,786.66	5	1,427.96	5	1,073.70	5	725.03	5	366.33	5	20.91	5		5	
1/4	2,496.59	1/4	2,137.89	1/4	1,779.19	1/4	1,420.49	1/4	1,066.53	1/4	717.56	1/4	358.86	1/4	17.17	1/4		1/4	
1/2	2,489.11	1/2	2,130.42	1/2	1,771.72	1/2	1,413.02	1/2	1,059.37	1/2	710.08	1/2	351.39	1/2	13.44	1/2		1/2	
3/4	2,481.64	3/4	2,122.94	3/4	1,764.24	3/4	1,405.54	3/4	1,052.20	3/4	702.61	3/4	343.91	3/4	9.70	3/4		3/4	
6	2,474.17	6	2,115.47	6	1,756.77	6	1,398.07	6	1,045.03	6	695.14	6	336.44	6	7.83	6		6	
1/4	2,466.70	1/4	2,108.00	1/4	1,749.30	1/4	1,390.60	1/4	1,037.87	1/4	687.67	1/4	328.97	1/4	5.97	1/4		1/4	
1/2	2,459.22	1/2	2,100.52	1/2	1,741.82	1/2	1,383.13	1/2	1,030.70	1/2	680.19	1/2	321.49	1/2	4.10	1/2		1/2	
3/4	2,451.75	3/4	2,093.05	3/4	1,734.35	3/4	1,375.65	3/4	1,023.54	3/4	672.72	3/4	314.02	3/4	2.23	3/4		3/4	
7	2,444.28	7	2,085.58	7	1,726.88	7	1,368.18	7	1,016.37	7	665.25	7	306.55	7		7		7	
1/4	2,436.80	1/4	2,078.11	1/4	1,719.41	1/4	1,360.71	1/4	1,009.20	1/4	657.77	1/4	299.08	1/4		1/4		1/4	
1/2	2,429.33	1/2	2,070.63	1/2	1,711.93	1/2	1,353.23	1/2	1,002.04	1/2	650.30	1/2	291.60	1/2		1/2		1/2	
3/4	2,421.86	3/4	2,063.16	3/4	1,704.46	3/4	1,345.76	3/4	994.87	3/4	642.83	3/4	284.13	3/4		3/4		3/4	
8	2,414.39	8	2,055.69	8	1,696.99	8	1,338.29	8	987.71	8	635.36	8	276.66	8		8		8	
1/4	2,406.91	1/4	2,048.21	1/4	1,689.51	1/4	1,330.82	1/4	980.54	1/4	627.88	1/4	269.18	1/4		1/4		1/4	
1/2	2,399.44	1/2	2,040.74	1/2	1,682.04	1/2	1,323.34	1/2	973.37	1/2	620.41	1/2	261.71	1/2		1/2		1/2	
3/4	2,391.97	3/4	2,033.27	3/4	1,674.57	3/4	1,315.87	3/4	966.21	3/4	612.94	3/4	254.24	3/4		3/4		3/4	
9	2,384.49	9	2,025.80	9	1,667.10	9	1,308.40	9	959.04	9	605.46	9	246.77	9		9		9	
1/4	2,377.02	1/4	2,018.32	1/4	1,659.62	1/4	1,300.92	1/4	951.87	1/4	597.99	1/4	239.29	1/4		1/4		1/4	
1/2	2,369.55	1/2	2,010.85	1/2	1,652.15	1/2	1,293.45	1/2	944.71	1/2	590.52	1/2	231.82	1/2		1/2		1/2	
3/4	2,362.08	3/4	2,003.38	3/4	1,644.68	3/4	1,285.98	3/4	937.54	3/4	583.05	3/4	224.35	3/4		3/4		3/4	
10	2,354.60	10	1,995.90	10	1,637.20	10	1,278.51	10	930.38	10	575.57	10	216.87	10		10		10	
1/4	2,347.13	1/4	1,988.43	1/4	1,629.73	1/4	1,271.03	1/4	923.21	1/4	568.10	1/4	209.40	1/4		1/4		1/4	
1/2	2,339.66	1/2	1,980.96	1/2	1,622.26	1/2	1,263.56	1/2	916.04	1/2	560.63	1/2	201.93	1/2		1/2		1/2	
3/4	2,332.18	3/4	1,973.48	3/4	1,614.79	3/4	1,256.09	3/4	908.88	3/4	553.15	3/4	194.45	3/4		3/4		3/4	
11	2,324.71	11	1,966.01	11	1,607.31	11	1,248.61	11	901.71	11	545.68	11	186.98	11		11		11	
1/4	2,317.24	1/4	1,958.54	1/4	1,599.84	1/4	1,241.14	1/4	894.54	1/4	538.21	1/4	179.51	1/4		1/4		1/4	
1/2	2,309.77	1/2	1,951.07	1/2	1,592.37	1/2	1,233.67	1/2	887.38	1/2	530.74	1/2	172.04	1/2		1/2		1/2	
3/4	2,302.29	3/4	1,943.59	3/4	1,584.89	3/4	1,226.19	3/4	880.21	3/4	523.26	3/4	164.56	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

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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		0	5,121.30	0	4,818.60	0	4,460.91	0	4,103.23	0	3,744.62	0	3,385.89	0	3,027.17
1/4		1/4		1/4		1/4	5,119.21	1/4	4,811.14	1/4	4,453.46	1/4	4,095.78	1/4	3,737.15	1/4	3,378.42	1/4	3,019.69
1/2		1/2		1/2		1/2	5,117.13	1/2	4,803.69	1/2	4,446.01	1/2	4,088.33	1/2	3,729.67	1/2	3,370.95	1/2	3,012.22
3/4		3/4		3/4		3/4	5,115.04	3/4	4,796.24	3/4	4,438.56	3/4	4,080.88	3/4	3,722.20	3/4	3,363.47	3/4	3,004.75
1		1		1		1	5,111.71	1	4,788.79	1	4,431.11	1	4,073.42	1	3,714.73	1	3,356.00	1	2,997.27
1/4		1/4		1/4		1/4	5,108.38	1/4	4,781.34	1/4	4,423.66	1/4	4,065.96	1/4	3,707.25	1/4	3,348.53	1/4	2,989.80
1/2		1/2		1/2		1/2	5,105.05	1/2	4,773.89	1/2	4,416.20	1/2	4,058.50	1/2	3,699.78	1/2	3,341.05	1/2	2,982.32
3/4		3/4		3/4		3/4	5,101.72	3/4	4,766.43	3/4	4,408.75	3/4	4,051.04	3/4	3,692.31	3/4	3,333.58	3/4	2,974.85
2		2		2		2	5,097.14	2	4,758.98	2	4,401.30	2	4,043.56	2	3,684.83	2	3,326.11	2	2,967.38
1/4		1/4		1/4		1/4	5,092.56	1/4	4,751.53	1/4	4,393.85	1/4	4,036.09	1/4	3,677.36	1/4	3,318.63	1/4	2,959.90
1/2		1/2		1/2		1/2	5,087.99	1/2	4,744.08	1/2	4,386.40	1/2	4,028.61	1/2	3,669.89	1/2	3,311.16	1/2	2,952.43
3/4		3/4		3/4		3/4	5,083.41	3/4	4,736.63	3/4	4,378.95	3/4	4,021.14	3/4	3,662.41	3/4	3,303.69	3/4	2,944.96
3		3		3		3	5,077.59	3	4,729.18	3	4,371.49	3	4,013.67	3	3,654.94	3	3,296.21	3	2,937.48
1/4		1/4		1/4		1/4	5,071.77	1/4	4,721.72	1/4	4,364.04	1/4	4,006.19	1/4	3,647.47	1/4	3,288.74	1/4	2,930.01
1/2		1/2		1/2		1/2	5,065.94	1/2	4,714.27	1/2	4,356.59	1/2	3,998.72	1/2	3,639.99	1/2	3,281.26	1/2	2,922.54
3/4		3/4		3/4		3/4	5,060.12	3/4	4,706.82	3/4	4,349.14	3/4	3,991.25	3/4	3,632.52	3/4	3,273.79	3/4	2,915.06
4		4		4		4	5,053.24	4	4,699.37	4	4,341.69	4	3,983.77	4	3,625.05	4	3,266.32	4	2,907.59
1/4		1/4		1/4		1/4	5,046.36	1/4	4,691.92	1/4	4,334.24	1/4	3,976.30	1/4	3,617.57	1/4	3,258.84	1/4	2,900.12
1/2		1/2		1/2		1/2	5,039.49	1/2	4,684.47	1/2	4,326.78	1/2	3,968.83	1/2	3,610.10	1/2	3,251.37	1/2	2,892.64
3/4		3/4		3/4		3/4	5,032.61	3/4	4,677.01	3/4	4,319.33	3/4	3,961.35	3/4	3,602.63	3/4	3,243.90	3/4	2,885.17
5		5		5		5	5,025.27	5	4,669.56	5	4,311.88	5	3,953.88	5	3,595.15	5	3,236.42	5	2,877.70
1/4		1/4		1/4		1/4	5,017.93	1/4	4,662.11	1/4	4,304.43	1/4	3,946.41	1/4	3,587.68	1/4	3,228.95	1/4	2,870.22
1/2		1/2		1/2		1/2	5,010.60	1/2	4,654.66	1/2	4,296.98	1/2	3,938.93	1/2	3,580.20	1/2	3,221.48	1/2	2,862.75
3/4		3/4		3/4		3/4	5,003.26	3/4	4,647.21	3/4	4,289.53	3/4	3,931.46	3/4	3,572.73	3/4	3,214.00	3/4	2,855.28
6		6		6		6	4,995.89	6	4,639.76	6	4,282.07	6	3,923.99	6	3,565.26	6	3,206.53	6	2,847.80
1/4		1/4		1/4		1/4	4,988.52	1/4	4,632.30	1/4	4,274.62	1/4	3,916.51	1/4	3,557.78	1/4	3,199.06	1/4	2,840.33
1/2		1/2		1/2		1/2	4,981.14	1/2	4,624.85	1/2	4,267.17	1/2	3,909.04	1/2	3,550.31	1/2	3,191.58	1/2	2,832.85
3/4		3/4		3/4		3/4	4,973.77	3/4	4,617.40	3/4	4,259.72	3/4	3,901.57	3/4	3,542.84	3/4	3,184.11	3/4	2,825.38
7		7		7		7	4,966.39	7	4,609.95	7	4,252.27	7	3,894.09	7	3,535.36	7	3,176.64	7	2,817.91
1/4		1/4		1/4		1/4	4,959.01	1/4	4,602.50	1/4	4,244.82	1/4	3,886.62	1/4	3,527.89	1/4	3,169.16	1/4	2,810.43
1/2		1/2		1/2		1/2	4,951.63	1/2	4,595.04	1/2	4,237.36	1/2	3,879.14	1/2	3,520.42	1/2	3,161.69	1/2	2,802.96
3/4		3/4		3/4		3/4	4,944.25	3/4	4,587.59	3/4	4,229.91	3/4	3,871.67	3/4	3,512.94	3/4	3,154.22	3/4	2,795.49
8		8		8		8	4,936.87	8	4,580.14	8	4,222.46	8	3,864.20	8	3,505.47	8	3,146.74	8	2,788.01
1/4		1/4		1/4		1/4	4,929.50	1/4	4,572.69	1/4	4,215.01	1/4	3,856.72	1/4	3,498.00	1/4	3,139.27	1/4	2,780.54
1/2		1/2		1/2		1/2	4,922.12	1/2	4,565.24	1/2	4,207.56	1/2	3,849.25	1/2	3,490.52	1/2	3,131.79	1/2	2,773.07
3/4		3/4		3/4		3/4	4,914.74	3/4	4,557.79	3/4	4,200.10	3/4	3,841.78	3/4	3,483.05	3/4	3,124.32	3/4	2,765.59
9		9		9		9	4,907.36	9	4,550.33	9	4,192.65	9	3,834.30	9	3,475.58	9	3,116.85	9	2,758.12
1/4		1/4		1/4		1/4	4,899.98	1/4	4,542.88	1/4	4,185.20	1/4	3,826.83	1/4	3,468.10	1/4	3,109.37	1/4	2,750.65
1/2		1/2		1/2		1/2	4,892.60	1/2	4,535.43	1/2	4,177.75	1/2	3,819.36	1/2	3,460.63	1/2	3,101.90	1/2	2,743.17
3/4		3/4		3/4		3/4	4,885.23	3/4	4,527.98	3/4	4,170.30	3/4	3,811.88	3/4	3,453.16	3/4	3,094.43	3/4	2,735.70
10		10		10		10	4,877.85	10	4,520.53	10	4,162.85	10	3,804.41	10	3,445.68	10	3,086.95	10	2,728.23
1/4		1/4		1/4		1/4	4,870.47	1/4	4,513.08	1/4	4,155.39	1/4	3,796.94	1/4	3,438.21	1/4	3,079.48	1/4	2,720.75
1/2		1/2		1/2		1/2	4,863.09	1/2	4,505.62	1/2	4,147.94	1/2	3,789.46	1/2	3,430.73	1/2	3,072.01	1/2	2,713.28
3/4		3/4		3/4		3/4	4,855.71	3/4	4,498.17	3/4	4,140.49	3/4	3,781.99	3/4	3,423.26	3/4	3,064.53	3/4	2,705.81
11		11		11		11	4,848.30	11	4,490.72	11	4,133.04	11	3,774.52	11	3,415.79	11	3,057.06	11	2,698.33
1/4		1/4		1/4		1/4	4,840.88	1/4	4,483.27	1/4	4,125.59	1/4	3,767.04	1/4	3,408.31	1/4	3,049.59	1/4	2,690.86
1/2		1/2		1/2		1/2	4,833.46	1/2	4,475.82	1/2	4,118.14	1/2	3,759.57	1/2	3,400.84	1/2	3,042.11	1/2	2,683.38
3/4		3/4		3/4	5,123.38	3/4	4,826.05	3/4	4,468.37	3/4	4,110.68	3/4	3,752.10	3/4	3,393.37	3/4	3,034.64	3/4	2,675.91

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" 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
10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-06 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	2,668.44	0	2,309.62	0	1,950.79	0	1,591.96	0	1,233.13	0	874.79	0	515.98	0	157.15	0		0	
1/4	2,660.97	1/4	2,302.15	1/4	1,943.32	1/4	1,584.49	1/4	1,225.66	1/4	867.32	1/4	508.51	1/4	149.68	1/4		1/4	
1/2	2,653.50	1/2	2,294.67	1/2	1,935.84	1/2	1,577.01	1/2	1,218.18	1/2	859.85	1/2	501.03	1/2	142.20	1/2		1/2	
3/4	2,646.02	3/4	2,287.19	3/4	1,928.37	3/4	1,569.54	3/4	1,210.71	3/4	852.38	3/4	493.55	3/4	134.73	3/4		3/4	
1	2,638.55	1	2,279.72	1	1,920.89	1	1,562.06	1	1,203.23	1	844.91	1	486.08	1	127.26	1		1	
1/4	2,631.07	1/4	2,272.24	1/4	1,913.41	1/4	1,554.59	1/4	1,195.76	1/4	837.43	1/4	478.60	1/4	119.79	1/4		1/4	
1/2	2,623.60	1/2	2,264.77	1/2	1,905.94	1/2	1,547.11	1/2	1,188.28	1/2	829.96	1/2	471.13	1/2	112.32	1/2		1/2	
3/4	2,616.12	3/4	2,257.29	3/4	1,898.46	3/4	1,539.63	3/4	1,180.81	3/4	822.48	3/4	463.65	3/4	104.85	3/4		3/4	
2	2,608.65	2	2,249.82	2	1,890.99	2	1,532.16	2	1,173.33	2	815.01	2	456.18	2	97.40	2		2	
1/4	2,601.17	1/4	2,242.34	1/4	1,883.51	1/4	1,524.68	1/4	1,165.86	1/4	807.53	1/4	448.70	1/4	89.95	1/4		1/4	
1/2	2,593.69	1/2	2,234.87	1/2	1,876.04	1/2	1,517.21	1/2	1,158.39	1/2	800.05	1/2	441.23	1/2	82.49	1/2		1/2	
3/4	2,586.22	3/4	2,227.39	3/4	1,868.56	3/4	1,509.73	3/4	1,150.91	3/4	792.58	3/4	433.75	3/4	75.04	3/4		3/4	
3	2,578.74	3	2,219.91	3	1,861.09	3	1,502.26	3	1,143.44	3	785.10	3	426.27	3	68.05	3		3	
1/4	2,571.27	1/4	2,212.44	1/4	1,853.61	1/4	1,494.78	1/4	1,135.97	1/4	777.63	1/4	418.80	1/4	61.06	1/4		1/4	
1/2	2,563.79	1/2	2,204.96	1/2	1,846.13	1/2	1,487.31	1/2	1,128.50	1/2	770.15	1/2	411.32	1/2	54.07	1/2		1/2	
3/4	2,556.32	3/4	2,197.49	3/4	1,838.66	3/4	1,479.83	3/4	1,121.03	3/4	762.68	3/4	403.85	3/4	47.08	3/4		3/4	
4	2,548.84	4	2,190.01	4	1,831.18	4	1,472.35	4	1,113.57	4	755.20	4	396.37	4	41.48	4		4	
1/4	2,541.36	1/4	2,182.54	1/4	1,823.71	1/4	1,464.88	1/4	1,106.10	1/4	747.72	1/4	388.90	1/4	35.87	1/4		1/4	
1/2	2,533.89	1/2	2,175.06	1/2	1,816.23	1/2	1,457.40	1/2	1,098.64	1/2	740.25	1/2	381.42	1/2	30.27	1/2		1/2	
3/4	2,526.41	3/4	2,167.58	3/4	1,808.76	3/4	1,449.93	3/4	1,091.17	3/4	732.77	3/4	373.94	3/4	24.66	3/4		3/4	
5	2,518.94	5	2,160.11	5	1,801.28	5	1,442.45	5	1,083.71	5	725.30	5	366.47	5	20.92	5		5	
1/4	2,511.46	1/4	2,152.63	1/4	1,793.80	1/4	1,434.98	1/4	1,076.25	1/4	717.82	1/4	358.99	1/4	17.19	1/4		1/4	
1/2	2,503.99	1/2	2,145.16	1/2	1,786.33	1/2	1,427.50	1/2	1,068.79	1/2	710.35	1/2	351.52	1/2	13.45	1/2		1/2	
3/4	2,496.51	3/4	2,137.68	3/4	1,778.85	3/4	1,420.02	3/4	1,061.33	3/4	702.87	3/4	344.04	3/4	9.71	3/4		3/4	
6	2,489.04	6	2,130.21	6	1,771.38	6	1,412.55	6	1,053.87	6	695.40	6	336.57	6	7.84	6		6	
1/4	2,481.56	1/4	2,122.73	1/4	1,763.90	1/4	1,405.07	1/4	1,046.40	1/4	687.92	1/4	329.09	1/4	5.97	1/4		1/4	
1/2	2,474.08	1/2	2,115.26	1/2	1,756.43	1/2	1,397.60	1/2	1,038.94	1/2	680.44	1/2	321.62	1/2	4.10	1/2		1/2	
3/4	2,466.61	3/4	2,107.78	3/4	1,748.95	3/4	1,390.12	3/4	1,031.48	3/4	672.97	3/4	314.14	3/4	2.23	3/4		3/4	
7	2,459.13	7	2,100.30	7	1,741.48	7	1,382.65	7	1,024.02	7	665.49	7	306.66	7		7		7	
1/4	2,451.66	1/4	2,092.83	1/4	1,734.00	1/4	1,375.17	1/4	1,016.56	1/4	658.02	1/4	299.19	1/4		1/4		1/4	
1/2	2,444.18	1/2	2,085.35	1/2	1,726.52	1/2	1,367.70	1/2	1,009.10	1/2	650.54	1/2	291.71	1/2		1/2		1/2	
3/4	2,436.71	3/4	2,077.88	3/4	1,719.05	3/4	1,360.22	3/4	1,001.64	3/4	643.07	3/4	284.24	3/4		3/4		3/4	
8	2,429.23	8	2,070.40	8	1,711.57	8	1,352.74	8	994.17	8	635.59	8	276.76	8		8		8	
1/4	2,421.76	1/4	2,062.93	1/4	1,704.10	1/4	1,345.27	1/4	986.71	1/4	628.12	1/4	269.29	1/4		1/4		1/4	
1/2	2,414.28	1/2	2,055.45	1/2	1,696.62	1/2	1,337.79	1/2	979.25	1/2	620.64	1/2	261.81	1/2		1/2		1/2	
3/4	2,406.80	3/4	2,047.98	3/4	1,689.15	3/4	1,330.32	3/4	971.79	3/4	613.16	3/4	254.34	3/4		3/4		3/4	
9	2,399.33	9	2,040.50	9	1,681.67	9	1,322.84	9	964.33	9	605.69	9	246.86	9		9		9	
1/4	2,391.85	1/4	2,033.02	1/4	1,674.20	1/4	1,315.37	1/4	956.87	1/4	598.21	1/4	239.38	1/4		1/4		1/4	
1/2	2,384.38	1/2	2,025.55	1/2	1,666.72	1/2	1,307.89	1/2	949.41	1/2	590.74	1/2	231.91	1/2		1/2		1/2	
3/4	2,376.90	3/4	2,018.07	3/4	1,659.24	3/4	1,300.42	3/4	941.94	3/4	583.26	3/4	224.43	3/4		3/4		3/4	
10	2,369.43	10	2,010.60	10	1,651.77	10	1,292.94	10	934.48	10	575.79	10	216.96	10		10		10	
1/4	2,361.95	1/4	2,003.12	1/4	1,644.29	1/4	1,285.46	1/4	927.02	1/4	568.31	1/4	209.48	1/4		1/4		1/4	
1/2	2,354.47	1/2	1,995.65	1/2	1,636.82	1/2	1,277.99	1/2	919.56	1/2	560.83	1/2	202.01	1/2		1/2		1/2	
3/4	2,347.00	3/4	1,988.17	3/4	1,629.34	3/4	1,270.51	3/4	912.10	3/4	553.36	3/4	194.53	3/4		3/4		3/4	
11	2,339.52	11	1,980.69	11	1,621.87	11	1,263.04	11	904.64	11	545.88	11	187.05	11		11		11	
1/4	2,332.05	1/4	1,973.22	1/4	1,614.39	1/4	1,255.56	1/4	897.18	1/4	538.41	1/4	179.58	1/4		1/4		1/4	
1/2	2,324.57	1/2	1,965.74	1/2	1,606.91	1/2	1,248.09	1/2	889.71	1/2	530.93	1/2	172.10	1/2		1/2		1/2	
3/4	2,317.10	3/4	1,958.27	3/4	1,599.44	3/4	1,240.61	3/4	882.25	3/4	523.46	3/4	164.63	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"

3 PORT

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07"

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		0	4,467.99	0	4,286.07	0	4,067.24	0	3,848.40	0	3,629.04	0	3,359.13	0	3,003.46
1/4		1/4		1/4		1/4	4,466.71	1/4	4,281.51	1/4	4,062.68	1/4	3,843.85	1/4	3,624.46	1/4	3,351.74	1/4	2,996.04
1/2		1/2		1/2		1/2	4,465.44	1/2	4,276.95	1/2	4,058.12	1/2	3,839.29	1/2	3,619.89	1/2	3,344.35	1/2	2,988.62
3/4		3/4		3/4		3/4	4,464.16	3/4	4,272.39	3/4	4,053.56	3/4	3,834.73	3/4	3,615.32	3/4	3,336.96	3/4	2,981.20
1		1		1		1	4,462.89	1	4,267.83	1	4,049.00	1	3,830.17	1	3,610.75	1	3,329.56	1	2,973.77
1/4		1/4		1/4		1/4	4,460.85	1/4	4,263.27	1/4	4,044.44	1/4	3,825.60	1/4	3,606.18	1/4	3,322.17	1/4	2,966.35
1/2		1/2		1/2		1/2	4,458.81	1/2	4,258.71	1/2	4,039.88	1/2	3,821.04	1/2	3,601.61	1/2	3,314.78	1/2	2,958.93
3/4		3/4		3/4		3/4	4,456.77	3/4	4,254.16	3/4	4,035.32	3/4	3,816.47	3/4	3,597.03	3/4	3,307.38	3/4	2,951.50
2		2		2		2	4,454.73	2	4,249.60	2	4,030.76	2	3,811.90	2	3,592.46	2	3,299.99	2	2,944.08
1/4		1/4		1/4		1/4	4,451.93	1/4	4,245.04	1/4	4,026.21	1/4	3,807.33	1/4	3,587.89	1/4	3,292.59	1/4	2,936.66
1/2		1/2		1/2		1/2	4,449.13	1/2	4,240.48	1/2	4,021.65	1/2	3,802.76	1/2	3,583.32	1/2	3,285.20	1/2	2,929.24
3/4		3/4		3/4		3/4	4,446.33	3/4	4,235.92	3/4	4,017.09	3/4	3,798.19	3/4	3,578.75	3/4	3,277.80	3/4	2,921.81
3		3		3		3	4,443.53	3	4,231.36	3	4,012.53	3	3,793.62	3	3,574.18	3	3,270.41	3	2,914.39
1/4		1/4		1/4		1/4	4,439.97	1/4	4,226.80	1/4	4,007.97	1/4	3,789.05	1/4	3,569.60	1/4	3,263.01	1/4	2,906.97
1/2		1/2		1/2		1/2	4,436.41	1/2	4,222.24	1/2	4,003.41	1/2	3,784.47	1/2	3,565.03	1/2	3,255.62	1/2	2,899.54
3/4		3/4		3/4		3/4	4,432.85	3/4	4,217.68	3/4	3,998.85	3/4	3,779.90	3/4	3,560.46	3/4	3,248.22	3/4	2,892.12
4		4		4		4	4,429.28	4	4,213.12	4	3,994.29	4	3,775.33	4	3,555.89	4	3,240.83	4	2,884.70
1/4		1/4		1/4		1/4	4,425.08	1/4	4,208.57	1/4	3,989.73	1/4	3,770.76	1/4	3,551.20	1/4	3,233.44	1/4	2,877.28
1/2		1/2		1/2		1/2	4,420.87	1/2	4,204.01	1/2	3,985.17	1/2	3,766.19	1/2	3,546.51	1/2	3,226.04	1/2	2,869.85
3/4		3/4		3/4		3/4	4,416.66	3/4	4,199.45	3/4	3,980.62	3/4	3,761.62	3/4	3,541.81	3/4	3,218.65	3/4	2,862.43
5		5		5		5	4,412.45	5	4,194.89	5	3,976.06	5	3,757.04	5	3,537.12	5	3,211.25	5	2,855.01
1/4		1/4		1/4		1/4	4,407.96	1/4	4,190.33	1/4	3,971.50	1/4	3,752.47	1/4	3,532.09	1/4	3,203.84	1/4	2,847.58
1/2		1/2		1/2		1/2	4,403.47	1/2	4,185.77	1/2	3,966.94	1/2	3,747.90	1/2	3,527.06	1/2	3,196.43	1/2	2,840.16
3/4		3/4		3/4		3/4	4,398.98	3/4	4,181.21	3/4	3,962.38	3/4	3,743.33	3/4	3,522.03	3/4	3,189.02	3/4	2,832.74
6		6		6		6	4,394.50	6	4,176.65	6	3,957.82	6	3,738.76	6	3,516.99	6	3,181.61	6	2,825.31
1/4		1/4		1/4		1/4	4,389.98	1/4	4,172.09	1/4	3,953.26	1/4	3,734.19	1/4	3,511.50	1/4	3,174.19	1/4	2,817.89
1/2		1/2		1/2		1/2	4,385.47	1/2	4,167.53	1/2	3,948.70	1/2	3,729.61	1/2	3,506.01	1/2	3,166.77	1/2	2,810.47
3/4		3/4		3/4		3/4	4,380.96	3/4	4,162.98	3/4	3,944.14	3/4	3,725.04	3/4	3,500.52	3/4	3,159.35	3/4	2,803.05
7		7		7		7	4,376.45	7	4,158.42	7	3,939.58	7	3,720.47	7	3,495.02	7	3,151.92	7	2,795.62
1/4		1/4		1/4		1/4	4,371.94	1/4	4,153.86	1/4	3,935.03	1/4	3,715.90	1/4	3,489.06	1/4	3,144.50	1/4	2,788.20
1/2		1/2		1/2		1/2	4,367.42	1/2	4,149.30	1/2	3,930.47	1/2	3,711.33	1/2	3,483.09	1/2	3,137.08	1/2	2,780.78
3/4		3/4		3/4		3/4	4,362.91	3/4	4,144.74	3/4	3,925.91	3/4	3,706.75	3/4	3,477.13	3/4	3,129.65	3/4	2,773.35
8		8		8		8	4,358.39	8	4,140.18	8	3,921.35	8	3,702.18	8	3,471.16	8	3,122.23	8	2,765.93
1/4		1/4		1/4		1/4	4,353.88	1/4	4,135.62	1/4	3,916.79	1/4	3,697.61	1/4	3,464.72	1/4	3,114.81	1/4	2,758.51
1/2		1/2		1/2		1/2	4,349.36	1/2	4,131.06	1/2	3,912.23	1/2	3,693.04	1/2	3,458.28	1/2	3,107.38	1/2	2,751.09
3/4		3/4		3/4		3/4	4,344.85	3/4	4,126.50	3/4	3,907.67	3/4	3,688.47	3/4	3,451.85	3/4	3,099.96	3/4	2,743.66
9		9		9		9	4,340.33	9	4,121.94	9	3,903.11	9	3,683.90	9	3,445.41	9	3,092.54	9	2,736.24
1/4		1/4		1/4		1/4	4,335.82	1/4	4,117.39	1/4	3,898.55	1/4	3,679.32	1/4	3,438.49	1/4	3,085.12	1/4	2,728.82
1/2		1/2		1/2		1/2	4,331.31	1/2	4,112.83	1/2	3,893.99	1/2	3,674.75	1/2	3,431.58	1/2	3,077.69	1/2	2,721.39
3/4		3/4		3/4		3/4	4,326.79	3/4	4,108.27	3/4	3,889.44	3/4	3,670.18	3/4	3,424.66	3/4	3,070.27	3/4	2,713.97
10		10		10		10	4,322.28	10	4,103.71	10	3,884.88	10	3,665.61	10	3,417.75	10	3,062.85	10	2,706.55
1/4		1/4		1/4		1/4	4,317.76	1/4	4,099.15	1/4	3,880.32	1/4	3,661.04	1/4	3,410.48	1/4	3,055.42	1/4	2,699.13
1/2		1/2		1/2		1/2	4,313.25	1/2	4,094.59	1/2	3,875.76	1/2	3,656.47	1/2	3,403.21	1/2	3,048.00	1/2	2,691.70
3/4		3/4		3/4		3/4	4,308.74	3/4	4,090.03	3/4	3,871.20	3/4	3,651.89	3/4	3,395.95	3/4	3,040.58	3/4	2,684.28
11		11		11		11	4,304.22	11	4,085.47	11	3,866.64	11	3,647.32	11	3,388.68	11	3,033.16	11	2,676.86
1/4		1/4		1/4		1/4	4,299.68	1/4	4,080.91	1/4	3,862.08	1/4	3,642.75	1/4	3,381.29	1/4	3,025.73	1/4	2,669.43
1/2		1/2		1/2		1/2	4,295.15	1/2	4,076.35	1/2	3,857.52	1/2	3,638.18	1/2	3,373.91	1/2	3,018.31	1/2	2,662.01
3/4		3/4		3/4		3/4	4,290.61	3/4	4,071.80	3/4	3,852.96	3/4	3,633.61	3/4	3,366.52	3/4	3,010.89	3/4	2,654.59

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" 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

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07"

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	2,647.17	0	2,290.64	0	1,934.45	0	1,578.19	0	1,221.50	0	876.14	0	521.15	0	164.02	0		0	
1/4	2,639.74	1/4	2,283.21	1/4	1,927.04	1/4	1,570.75	1/4	1,214.07	1/4	868.99	1/4	513.72	1/4	156.57	1/4		1/4	
1/2	2,632.32	1/2	2,275.78	1/2	1,919.62	1/2	1,563.32	1/2	1,206.64	1/2	861.84	1/2	506.28	1/2	149.12	1/2		1/2	
3/4	2,624.89	3/4	2,268.35	3/4	1,912.21	3/4	1,555.89	3/4	1,199.20	3/4	854.69	3/4	498.85	3/4	141.68	3/4		3/4	
1	2,617.47	1	2,260.92	1	1,904.79	1	1,548.46	1	1,191.77	1	847.54	1	491.41	1	134.23	1		1	
1/4	2,610.05	1/4	2,253.50	1/4	1,897.38	1/4	1,541.03	1/4	1,184.45	1/4	840.27	1/4	483.97	1/4	126.79	1/4		1/4	
1/2	2,602.62	1/2	2,246.07	1/2	1,889.96	1/2	1,533.60	1/2	1,177.12	1/2	833.00	1/2	476.54	1/2	119.35	1/2		1/2	
3/4	2,595.20	3/4	2,238.64	3/4	1,882.55	3/4	1,526.17	3/4	1,169.79	3/4	825.74	3/4	469.10	3/4	111.90	3/4		3/4	
2	2,587.77	2	2,231.21	2	1,875.13	2	1,518.74	2	1,162.46	2	818.47	2	461.67	2	104.46	2		2	
1/4	2,580.35	1/4	2,223.79	1/4	1,867.72	1/4	1,511.31	1/4	1,155.25	1/4	811.06	1/4	454.23	1/4	97.04	1/4		1/4	
1/2	2,572.92	1/2	2,216.36	1/2	1,860.31	1/2	1,503.88	1/2	1,148.03	1/2	803.66	1/2	446.79	1/2	89.61	1/2		1/2	
3/4	2,565.50	3/4	2,208.93	3/4	1,852.89	3/4	1,496.44	3/4	1,140.81	3/4	796.26	3/4	439.36	3/4	82.19	3/4		3/4	
3	2,558.08	3	2,201.50	3	1,845.48	3	1,489.01	3	1,133.59	3	788.85	3	431.92	3	74.77	3		3	
1/4	2,550.65	1/4	2,194.07	1/4	1,838.06	1/4	1,481.58	1/4	1,126.38	1/4	781.41	1/4	424.49	1/4	67.80	1/4		1/4	
1/2	2,543.23	1/2	2,186.65	1/2	1,830.65	1/2	1,474.15	1/2	1,119.17	1/2	773.98	1/2	417.05	1/2	60.84	1/2		1/2	
3/4	2,535.80	3/4	2,179.22	3/4	1,823.23	3/4	1,466.72	3/4	1,111.96	3/4	766.54	3/4	409.61	3/4	53.88	3/4		3/4	
4	2,528.38	4	2,171.79	4	1,815.82	4	1,459.29	4	1,104.75	4	759.11	4	402.18	4	46.91	4		4	
1/4	2,520.96	1/4	2,164.36	1/4	1,808.40	1/4	1,451.86	1/4	1,097.58	1/4	751.67	1/4	394.74	1/4	41.33	1/4		1/4	
1/2	2,513.53	1/2	2,156.94	1/2	1,800.99	1/2	1,444.43	1/2	1,090.40	1/2	744.23	1/2	387.31	1/2	35.74	1/2		1/2	
3/4	2,506.11	3/4	2,149.51	3/4	1,793.57	3/4	1,437.00	3/4	1,083.23	3/4	736.80	3/4	379.87	3/4	30.16	3/4		3/4	
5	2,498.68	5	2,142.08	5	1,786.16	5	1,429.57	5	1,076.05	5	729.36	5	372.43	5	24.57	5		5	
1/4	2,491.26	1/4	2,134.65	1/4	1,778.74	1/4	1,422.13	1/4	1,068.91	1/4	721.93	1/4	365.00	1/4	20.85	1/4		1/4	
1/2	2,483.84	1/2	2,127.23	1/2	1,771.33	1/2	1,414.70	1/2	1,061.77	1/2	714.49	1/2	357.56	1/2	17.12	1/2		1/2	
3/4	2,476.41	3/4	2,119.80	3/4	1,763.92	3/4	1,407.27	3/4	1,054.63	3/4	707.05	3/4	350.13	3/4	13.40	3/4		3/4	
6	2,468.99	6	2,112.37	6	1,756.50	6	1,399.84	6	1,047.50	6	699.62	6	342.69	6	9.68	6		6	
1/4	2,461.56	1/4	2,104.95	1/4	1,749.08	1/4	1,392.41	1/4	1,040.36	1/4	692.18	1/4	335.25	1/4	7.82	1/4		1/4	
1/2	2,454.14	1/2	2,097.54	1/2	1,741.65	1/2	1,384.98	1/2	1,033.22	1/2	684.75	1/2	327.82	1/2	5.95	1/2		1/2	
3/4	2,446.71	3/4	2,090.12	3/4	1,734.23	3/4	1,377.55	3/4	1,026.08	3/4	677.31	3/4	320.38	3/4	4.09	3/4		3/4	
7	2,439.29	7	2,082.70	7	1,726.81	7	1,370.12	7	1,018.94	7	669.87	7	312.95	7	2.23	7		7	
1/4	2,431.86	1/4	2,075.29	1/4	1,719.37	1/4	1,362.69	1/4	1,011.80	1/4	662.44	1/4	305.50	1/4		1/4		1/4	
1/2	2,424.43	1/2	2,067.89	1/2	1,711.94	1/2	1,355.26	1/2	1,004.66	1/2	655.00	1/2	298.06	1/2		1/2		1/2	
3/4	2,417.00	3/4	2,060.48	3/4	1,704.51	3/4	1,347.82	3/4	997.52	3/4	647.57	3/4	290.62	3/4		3/4		3/4	
8	2,409.58	8	2,053.07	8	1,697.08	8	1,340.39	8	990.38	8	640.13	8	283.18	8		8		8	
1/4	2,402.14	1/4	2,045.66	1/4	1,689.65	1/4	1,332.96	1/4	983.24	1/4	632.69	1/4	275.73	1/4		1/4		1/4	
1/2	2,394.71	1/2	2,038.25	1/2	1,682.22	1/2	1,325.53	1/2	976.10	1/2	625.26	1/2	268.28	1/2		1/2		1/2	
3/4	2,387.28	3/4	2,030.84	3/4	1,674.79	3/4	1,318.10	3/4	968.96	3/4	617.82	3/4	260.84	3/4		3/4		3/4	
9	2,379.84	9	2,023.43	9	1,667.36	9	1,310.67	9	961.82	9	610.39	9	253.39	9		9		9	
1/4	2,372.41	1/4	2,016.01	1/4	1,659.93	1/4	1,303.24	1/4	954.68	1/4	602.95	1/4	245.94	1/4		1/4		1/4	
1/2	2,364.98	1/2	2,008.60	1/2	1,652.50	1/2	1,295.81	1/2	947.54	1/2	595.51	1/2	238.49	1/2		1/2		1/2	
3/4	2,357.54	3/4	2,001.18	3/4	1,645.06	3/4	1,288.38	3/4	940.40	3/4	588.08	3/4	231.05	3/4		3/4		3/4	
10	2,350.11	10	1,993.77	10	1,637.63	10	1,280.95	10	933.26	10	580.64	10	223.60	10		10		10	
1/4	2,342.68	1/4	1,986.35	1/4	1,630.20	1/4	1,273.51	1/4	926.12	1/4	573.21	1/4	216.15	1/4		1/4		1/4	
1/2	2,335.24	1/2	1,978.94	1/2	1,622.77	1/2	1,266.08	1/2	918.98	1/2	565.77	1/2	208.70	1/2		1/2		1/2	
3/4	2,327.81	3/4	1,971.52	3/4	1,615.34	3/4	1,258.65	3/4	911.84	3/4	558.33	3/4	201.26	3/4		3/4		3/4	
11	2,320.38	11	1,964.11	11	1,607.91	11	1,251.22	11	904.70	11	550.90	11	193.81	11		11		11	
1/4	2,312.94	1/4	1,956.69	1/4	1,600.48	1/4	1,243.79	1/4	897.56	1/4	543.46	1/4	186.36	1/4		1/4		1/4	
1/2	2,305.51	1/2	1,949.28	1/2	1,593.05	1/2	1,236.36	1/2	890.42	1/2	536.03	1/2	178.91	1/2		1/2		1/2	
3/4	2,298.08	3/4	1,941.87	3/4	1,585.62	3/4	1,228.93	3/4	883.28	3/4	528.59	3/4	171.47	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"

3 STBD

ULLAGE TABLE

10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-07 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		0		0	4,315.37	0	4,096.30	0	3,877.20	0	3,657.58	0	3,389.96	0	3,033.26
1/4		1/4		1/4		1/4	4,492.95	1/4	4,310.83	1/4	4,091.73	1/4	3,872.64	1/4	3,653.01	1/4	3,382.55	1/4	3,025.82
1/2		1/2		1/2		1/2	4,491.67	1/2	4,306.26	1/2	4,087.17	1/2	3,868.07	1/2	3,648.43	1/2	3,375.14	1/2	3,018.37
3/4		3/4		3/4		3/4	4,490.39	3/4	4,301.70	3/4	4,082.60	3/4	3,863.51	3/4	3,643.85	3/4	3,367.72	3/4	3,010.93
1		1		1		1	4,489.12	1	4,297.13	1	4,078.04	1	3,858.94	1	3,639.28	1	3,360.31	1	3,003.48
1/4		1/4		1/4		1/4	4,487.84	1/4	4,292.57	1/4	4,073.47	1/4	3,854.38	1/4	3,634.70	1/4	3,352.89	1/4	2,996.04
1/2		1/2		1/2		1/2	4,485.80	1/2	4,288.01	1/2	4,068.91	1/2	3,849.81	1/2	3,630.12	1/2	3,345.48	1/2	2,988.59
3/4		3/4		3/4		3/4	4,483.76	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	2,981.15
2		2		2		2	4,481.72	2	4,278.88	2	4,059.78	2	3,840.67	2	3,620.97	2	3,330.64	2	2,973.70
1/4		1/4		1/4		1/4	4,479.68	1/4	4,274.31	1/4	4,055.22	1/4	3,836.10	1/4	3,616.39	1/4	3,323.23	1/4	2,966.26
1/2		1/2		1/2		1/2	4,476.87	1/2	4,269.75	1/2	4,050.65	1/2	3,831.52	1/2	3,611.81	1/2	3,315.81	1/2	2,958.81
3/4		3/4		3/4		3/4	4,474.07	3/4	4,265.18	3/4	4,046.09	3/4	3,826.94	3/4	3,607.24	3/4	3,308.39	3/4	2,951.36
3		3		3		3	4,471.27	3	4,260.62	3	4,041.52	3	3,822.36	3	3,602.66	3	3,300.98	3	2,943.92
1/4		1/4		1/4		1/4	4,468.46	1/4	4,256.05	1/4	4,036.96	1/4	3,817.79	1/4	3,598.08	1/4	3,293.56	1/4	2,936.47
1/2		1/2		1/2		1/2	4,464.90	1/2	4,251.49	1/2	4,032.39	1/2	3,813.21	1/2	3,593.50	1/2	3,286.14	1/2	2,929.03
3/4		3/4		3/4		3/4	4,461.33	3/4	4,246.92	3/4	4,027.83	3/4	3,808.63	3/4	3,588.93	3/4	3,278.73	3/4	2,921.58
4		4		4		4	4,457.76	4	4,242.36	4	4,023.26	4	3,804.06	4	3,584.35	4	3,271.31	4	2,914.14
1/4		1/4		1/4		1/4	4,454.20	1/4	4,237.80	1/4	4,018.70	1/4	3,799.48	1/4	3,579.77	1/4	3,263.89	1/4	2,906.69
1/2		1/2		1/2		1/2	4,449.98	1/2	4,233.23	1/2	4,014.14	1/2	3,794.90	1/2	3,575.08	1/2	3,256.48	1/2	2,899.25
3/4		3/4		3/4		3/4	4,445.77	3/4	4,228.67	3/4	4,009.57	3/4	3,790.32	3/4	3,570.38	3/4	3,249.06	3/4	2,891.80
5		5		5		5	4,441.56	5	4,224.10	5	4,005.01	5	3,785.75	5	3,565.68	5	3,241.64	5	2,884.36
1/4		1/4		1/4		1/4	4,437.35	1/4	4,219.54	1/4	4,000.44	1/4	3,781.17	1/4	3,560.98	1/4	3,234.23	1/4	2,876.91
1/2		1/2		1/2		1/2	4,432.85	1/2	4,214.97	1/2	3,995.88	1/2	3,776.59	1/2	3,555.95	1/2	3,226.80	1/2	2,869.47
3/4		3/4		3/4		3/4	4,428.36	3/4	4,210.41	3/4	3,991.31	3/4	3,772.01	3/4	3,550.91	3/4	3,219.36	3/4	2,862.02
6		6		6		6	4,423.86	6	4,205.84	6	3,986.75	6	3,767.44	6	3,545.87	6	3,211.93	6	2,854.58
1/4		1/4		1/4		1/4	4,419.37	1/4	4,201.28	1/4	3,982.18	1/4	3,762.86	1/4	3,540.83	1/4	3,204.50	1/4	2,847.13
1/2		1/2		1/2		1/2	4,414.85	1/2	4,196.72	1/2	3,977.62	1/2	3,758.28	1/2	3,535.33	1/2	3,197.06	1/2	2,839.69
3/4		3/4		3/4		3/4	4,410.34	3/4	4,192.15	3/4	3,973.05	3/4	3,753.71	3/4	3,529.83	3/4	3,189.61	3/4	2,832.24
7		7		7		7	4,405.82	7	4,187.59	7	3,968.49	7	3,749.13	7	3,524.34	7	3,182.17	7	2,824.79
1/4		1/4		1/4		1/4	4,401.31	1/4	4,183.02	1/4	3,963.93	1/4	3,744.55	1/4	3,518.84	1/4	3,174.72	1/4	2,817.35
1/2		1/2		1/2		1/2	4,396.79	1/2	4,178.46	1/2	3,959.36	1/2	3,739.97	1/2	3,512.86	1/2	3,167.28	1/2	2,809.90
3/4		3/4		3/4		3/4	4,392.27	3/4	4,173.89	3/4	3,954.80	3/4	3,735.40	3/4	3,506.88	3/4	3,159.83	3/4	2,802.46
8		8		8		8	4,387.75	8	4,169.33	8	3,950.23	8	3,730.82	8	3,500.90	8	3,152.39	8	2,795.01
1/4		1/4		1/4		1/4	4,383.23	1/4	4,164.76	1/4	3,945.67	1/4	3,726.24	1/4	3,494.92	1/4	3,144.94	1/4	2,787.57
1/2		1/2		1/2		1/2	4,378.71	1/2	4,160.20	1/2	3,941.10	1/2	3,721.67	1/2	3,488.47	1/2	3,137.50	1/2	2,780.12
3/4		3/4		3/4		3/4	4,374.19	3/4	4,155.63	3/4	3,936.54	3/4	3,717.09	3/4	3,482.01	3/4	3,130.05	3/4	2,772.68
9		9		9		9	4,369.67	9	4,151.07	9	3,931.97	9	3,712.51	9	3,475.55	9	3,122.61	9	2,765.23
1/4		1/4		1/4		1/4	4,365.15	1/4	4,146.51	1/4	3,927.41	1/4	3,707.93	1/4	3,469.09	1/4	3,115.16	1/4	2,757.79
1/2		1/2		1/2		1/2	4,360.63	1/2	4,141.94	1/2	3,922.85	1/2	3,703.36	1/2	3,462.16	1/2	3,107.72	1/2	2,750.34
3/4		3/4		3/4		3/4	4,356.11	3/4	4,137.38	3/4	3,918.28	3/4	3,698.78	3/4	3,455.22	3/4	3,100.27	3/4	2,742.90
10		10		10		10	4,351.59	10	4,132.81	10	3,913.72	10	3,694.20	10	3,448.28	10	3,092.83	10	2,735.45
1/4		1/4		1/4		1/4	4,347.07	1/4	4,128.25	1/4	3,909.15	1/4	3,689.63	1/4	3,441.35	1/4	3,085.38	1/4	2,728.01
1/2		1/2		1/2		1/2	4,342.55	1/2	4,123.68	1/2	3,904.59	1/2	3,685.05	1/2	3,434.06	1/2	3,077.93	1/2	2,720.56
3/4		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	3,426.77	3/4	3,070.49	3/4	2,713.11
11		11		11		11	4,333.51	11	4,114.55	11	3,895.46	11	3,675.89	11	3,419.48	11	3,063.04	11	2,705.67
1/4		1/4		1/4		1/4	4,328.99	1/4	4,109.99	1/4	3,890.89	1/4	3,671.32	1/4	3,412.19	1/4	3,055.60	1/4	2,698.22
1/2		1/2		1/2		1/2	4,324.45	1/2	4,105.43	1/2	3,886.33	1/2	3,666.74	1/2	3,404.78	1/2	3,048.15	1/2	2,690.78
3/4		3/4		3/4		3/4	4,319.91	3/4	4,100.86	3/4	3,881.76	3/4	3,662.16	3/4	3,397.37	3/4	3,040.71	3/4	2,683.33

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 10" HATCH ON EXPANSION DOME.
GAUGE POINT: (10" HATCH) LOCATED 3'-00" OFF CENTERLINE AND 3'-00" 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
10" HATCH
GAUGE HEIGHT 17'-07 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,675.89	0	2,318.32	0	1,960.45	0	1,602.58	0	1,244.71	0	887.31	0	529.49	0	171.64	0		0	
1/4	2,668.44	1/4	2,310.86	1/4	1,952.99	1/4	1,595.12	1/4	1,237.25	1/4	879.86	1/4	522.04	1/4	164.18	1/4		1/4	
1/2	2,661.00	1/2	2,303.41	1/2	1,945.54	1/2	1,587.67	1/2	1,229.80	1/2	872.42	1/2	514.58	1/2	156.73	1/2		1/2	
3/4	2,653.55	3/4	2,295.95	3/4	1,938.08	3/4	1,580.21	3/4	1,222.34	3/4	864.97	3/4	507.13	3/4	149.27	3/4		3/4	
1	2,646.11	1	2,288.49	1	1,930.63	1	1,572.76	1	1,214.89	1	857.52	1	499.67	1	141.82	1		1	
1/4	2,638.66	1/4	2,281.04	1/4	1,923.17	1/4	1,565.30	1/4	1,207.43	1/4	850.07	1/4	492.22	1/4	134.36	1/4		1/4	
1/2	2,631.21	1/2	2,273.58	1/2	1,915.71	1/2	1,557.85	1/2	1,199.98	1/2	842.62	1/2	484.76	1/2	126.91	1/2		1/2	
3/4	2,623.77	3/4	2,266.13	3/4	1,908.26	3/4	1,550.39	3/4	1,192.52	3/4	835.16	3/4	477.31	3/4	119.47	3/4		3/4	
2	2,616.32	2	2,258.67	2	1,900.80	2	1,542.93	2	1,185.07	2	827.70	2	469.85	2	112.02	2		2	
1/4	2,608.87	1/4	2,251.22	1/4	1,893.35	1/4	1,535.48	1/4	1,177.61	1/4	820.25	1/4	462.40	1/4	104.57	1/4		1/4	
1/2	2,601.43	1/2	2,243.76	1/2	1,885.89	1/2	1,528.02	1/2	1,170.16	1/2	812.79	1/2	454.94	1/2	97.13	1/2		1/2	
3/4	2,593.98	3/4	2,236.31	3/4	1,878.44	3/4	1,520.57	3/4	1,162.70	3/4	805.34	3/4	447.48	3/4	89.70	3/4		3/4	
3	2,586.53	3	2,228.85	3	1,870.98	3	1,513.11	3	1,155.25	3	797.88	3	440.03	3	82.27	3		3	
1/4	2,579.09	1/4	2,221.39	1/4	1,863.53	1/4	1,505.66	1/4	1,147.80	1/4	790.43	1/4	432.57	1/4	74.84	1/4		1/4	
1/2	2,571.64	1/2	2,213.94	1/2	1,856.07	1/2	1,498.20	1/2	1,140.35	1/2	782.97	1/2	425.12	1/2	67.87	1/2		1/2	
3/4	2,564.20	3/4	2,206.48	3/4	1,848.61	3/4	1,490.75	3/4	1,132.90	3/4	775.52	3/4	417.66	3/4	60.90	3/4		3/4	
4	2,556.75	4	2,199.03	4	1,841.16	4	1,483.29	4	1,125.45	4	768.06	4	410.21	4	53.93	4		4	
1/4	2,549.30	1/4	2,191.57	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	46.96	1/4		1/4	
1/2	2,541.86	1/2	2,184.12	1/2	1,826.25	1/2	1,468.38	1/2	1,110.55	1/2	753.15	1/2	395.30	1/2	41.37	1/2		1/2	
3/4	2,534.41	3/4	2,176.66	3/4	1,818.79	3/4	1,460.92	3/4	1,103.11	3/4	745.70	3/4	387.84	3/4	35.78	3/4		3/4	
5	2,526.96	5	2,169.20	5	1,811.34	5	1,453.47	5	1,095.66	5	738.24	5	380.39	5	30.18	5		5	
1/4	2,519.52	1/4	2,161.75	1/4	1,803.88	1/4	1,446.01	1/4	1,088.22	1/4	730.79	1/4	372.93	1/4	24.59	1/4		1/4	
1/2	2,512.07	1/2	2,154.29	1/2	1,796.42	1/2	1,438.56	1/2	1,080.78	1/2	723.33	1/2	365.48	1/2	20.87	1/2		1/2	
3/4	2,504.62	3/4	2,146.84	3/4	1,788.97	3/4	1,431.10	3/4	1,073.34	3/4	715.88	3/4	358.02	3/4	17.14	3/4		3/4	
6	2,497.18	6	2,139.38	6	1,781.51	6	1,423.64	6	1,065.89	6	708.42	6	350.57	6	13.41	6		6	
1/4	2,489.73	1/4	2,131.93	1/4	1,774.06	1/4	1,416.19	1/4	1,058.45	1/4	700.96	1/4	343.11	1/4	9.68	1/4		1/4	
1/2	2,482.28	1/2	2,124.47	1/2	1,766.60	1/2	1,408.73	1/2	1,051.01	1/2	693.51	1/2	335.66	1/2	7.82	1/2		1/2	
3/4	2,474.84	3/4	2,117.02	3/4	1,759.15	3/4	1,401.28	3/4	1,043.57	3/4	686.05	3/4	328.20	3/4	5.96	3/4		3/4	
7	2,467.39	7	2,109.56	7	1,751.69	7	1,393.82	7	1,036.13	7	678.60	7	320.74	7	4.09	7		7	
1/4	2,459.94	1/4	2,102.10	1/4	1,744.24	1/4	1,386.37	1/4	1,028.69	1/4	671.14	1/4	313.29	1/4	2.23	1/4		1/4	
1/2	2,452.50	1/2	2,094.65	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	
3/4	2,445.05	3/4	2,087.19	3/4	1,729.32	3/4	1,371.46	3/4	1,013.81	3/4	656.23	3/4	298.38	3/4		3/4		3/4	
8	2,437.60	8	2,079.74	8	1,721.87	8	1,364.00	8	1,006.37	8	648.78	8	290.92	8		8		8	
1/4	2,430.15	1/4	2,072.28	1/4	1,714.41	1/4	1,356.54	1/4	998.92	1/4	641.32	1/4	283.47	1/4		1/4		1/4	
1/2	2,422.70	1/2	2,064.83	1/2	1,706.96	1/2	1,349.09	1/2	991.48	1/2	633.87	1/2	276.01	1/2		1/2		1/2	
3/4	2,415.24	3/4	2,057.37	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	
9	2,407.78	9	2,049.92	9	1,692.05	9	1,334.18	9	976.60	9	618.96	9	261.10	9		9		9	
1/4	2,400.33	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	253.65	1/4		1/4		1/4	
1/2	2,392.87	1/2	2,035.00	1/2	1,677.14	1/2	1,319.27	1/2	961.72	1/2	604.05	1/2	246.19	1/2		1/2		1/2	
3/4	2,385.42	3/4	2,027.55	3/4	1,669.68	3/4	1,311.81	3/4	954.28	3/4	596.59	3/4	238.74	3/4		3/4		3/4	
10	2,377.96	10	2,020.09	10	1,662.22	10	1,304.36	10	946.84	10	589.14	10	231.28	10		10		10	
1/4	2,370.51	1/4	2,012.64	1/4	1,654.77	1/4	1,296.90	1/4	939.39	1/4	581.68	1/4	223.83	1/4		1/4		1/4	
1/2	2,363.05	1/2	2,005.18	1/2	1,647.31	1/2	1,289.44	1/2	931.95	1/2	574.22	1/2	216.37	1/2		1/2		1/2	
3/4	2,355.59	3/4	1,997.73	3/4	1,639.86	3/4	1,281.99	3/4	924.51	3/4	566.77	3/4	208.91	3/4		3/4		3/4	
11	2,348.14	11	1,990.27	11	1,632.40	11	1,274.53	11	917.07	11	559.31	11	201.46	11		11		11	
1/4	2,340.68	1/4	1,982.81	1/4	1,624.95	1/4	1,267.08	1/4	909.63	1/4	551.86	1/4	194.00	1/4		1/4		1/4	
1/2	2,333.23	1/2	1,975.36	1/2	1,617.49	1/2	1,259.62	1/2	902.19	1/2	544.40	1/2	186.55	1/2		1/2		1/2	
3/4	2,325.77	3/4	1,967.90	3/4	1,610.03	3/4	1,252.17	3/4	894.75	3/4	536.95	3/4	179.09	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