



BARGE "EMS 502"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
1 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS . 00-3/8"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 236'-06"

August 15, 2018

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

<http://www.pmacorp.net>



BARGE "EMS 502"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 U.S. GALLONS

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS										GAUGE HEIGHT 16'-05 3/4"										
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	0	10.38	0	263.01	0	554.86	0	875.25	0	1,214.68	0	1,555.38	0	1,896.19	0	2,236.98	0	2,577.77	0	2,918.55
1/4	13.69	13.69	1/4	268.81	1/4	561.28	1/4	882.23	1/4	1,221.68	1/4	1,562.48	1/4	1,903.29	1/4	2,244.08	1/4	2,584.87	1/4	2,925.65
1/2	17.00	17.00	1/2	274.61	1/2	567.69	1/2	889.21	1/2	1,228.78	1/2	1,569.58	1/2	1,910.39	1/2	2,251.18	1/2	2,591.97	1/2	2,932.75
3/4	20.32	20.32	3/4	280.41	3/4	574.10	3/4	896.19	3/4	1,235.88	3/4	1,576.68	3/4	1,917.49	3/4	2,258.28	3/4	2,599.07	3/4	2,939.85
1	23.63	1	286.21	1	580.61	1	903.17	1	1,242.98	1	1,583.78	1	1,924.59	1	2,265.38	1	2,606.17	1	2,946.95	
1/4	28.28	1/4	292.06	1/4	586.97	1/4	910.20	1/4	1,250.08	1/4	1,590.88	1/4	1,931.69	1/4	2,272.48	1/4	2,613.26	1/4	2,954.05	
1/2	32.92	1/2	297.91	1/2	593.44	1/2	917.22	1/2	1,257.18	1/2	1,597.98	1/2	1,938.79	1/2	2,279.58	1/2	2,620.36	1/2	2,961.15	
3/4	37.57	3/4	303.76	3/4	599.90	3/4	924.25	3/4	1,264.28	3/4	1,605.08	3/4	1,945.89	3/4	2,286.68	3/4	2,627.46	3/4	2,968.25	
2	42.22	2	309.61	2	606.36	2	931.27	2	1,271.38	2	1,612.18	2	1,952.99	2	2,293.78	2	2,634.56	2	2,975.35	
1/4	47.61	1/4	315.51	1/4	612.88	1/4	938.32	1/4	1,278.46	1/4	1,619.28	1/4	1,960.09	1/4	2,300.88	1/4	2,641.66	1/4	2,982.45	
1/2	52.80	1/2	321.41	1/2	619.39	1/2	945.37	1/2	1,285.58	1/2	1,626.38	1/2	1,967.19	1/2	2,307.98	1/2	2,648.76	1/2	2,989.55	
3/4	58.09	3/4	327.32	3/4	625.90	3/4	952.42	3/4	1,292.68	3/4	1,633.48	3/4	1,974.29	3/4	2,315.08	3/4	2,655.86	3/4	2,996.65	
3	63.38	3	333.22	3	632.42	3	959.47	3	1,299.78	3	1,640.58	3	1,981.39	3	2,322.18	3	2,662.96	3	3,003.75	
1/4	68.72	1/4	339.17	1/4	638.98	1/4	966.53	1/4	1,306.98	1/4	1,647.68	1/4	1,988.49	1/4	2,329.28	1/4	2,670.06	1/4	3,010.85	
1/2	74.06	1/2	345.12	1/2	645.55	1/2	973.59	1/2	1,313.98	1/2	1,654.78	1/2	1,995.59	1/2	2,336.38	1/2	2,677.18	1/2	3,017.94	
3/4	79.40	3/4	351.08	3/4	652.11	3/4	980.64	3/4	1,321.08	3/4	1,661.88	3/4	2,002.69	3/4	2,343.48	3/4	2,684.26	3/4	3,025.04	
4	84.75	4	357.03	4	658.67	4	987.70	4	1,328.18	4	1,668.98	4	2,009.79	4	2,350.58	4	2,691.36	4	3,032.14	
1/4	90.14	1/4	363.03	1/4	665.29	1/4	994.76	1/4	1,335.28	1/4	1,676.08	1/4	2,016.89	1/4	2,357.68	1/4	2,698.46	1/4	3,039.24	
1/2	95.53	1/2	369.04	1/2	671.91	1/2	1,001.82	1/2	1,342.38	1/2	1,683.18	1/2	2,023.99	1/2	2,364.78	1/2	2,705.56	1/2	3,046.34	
3/4	100.92	3/4	375.04	3/4	678.52	3/4	1,008.89	3/4	1,349.48	3/4	1,690.28	3/4	2,031.09	3/4	2,371.87	3/4	2,712.66	3/4	3,053.44	
5	106.31	5	381.05	5	685.14	5	1,015.95	5	1,356.58	5	1,697.38	5	2,038.19	5	2,378.97	5	2,719.76	5	3,060.54	
1/4	111.76	1/4	387.10	1/4	691.80	1/4	1,023.02	1/4	1,363.68	1/4	1,704.48	1/4	2,045.29	1/4	2,386.07	1/4	2,726.86	1/4	3,067.64	
1/2	117.20	1/2	393.16	1/2	698.47	1/2	1,030.09	1/2	1,370.78	1/2	1,711.58	1/2	2,052.39	1/2	2,393.17	1/2	2,733.86	1/2	3,074.74	
3/4	122.64	3/4	399.21	3/4	705.14	3/4	1,037.16	3/4	1,377.88	3/4	1,718.68	3/4	2,059.49	3/4	2,400.27	3/4	2,741.06	3/4	3,081.84	
6	128.09	6	405.27	6	711.80	6	1,044.24	6	1,384.98	6	1,725.78	6	2,066.59	6	2,407.37	6	2,748.16	6	3,088.94	
1/4	133.58	1/4	411.37	1/4	718.51	1/4	1,051.32	1/4	1,392.08	1/4	1,732.88	1/4	2,073.69	1/4	2,414.47	1/4	2,755.26	1/4	3,096.04	
1/2	139.08	1/2	417.48	1/2	725.21	1/2	1,058.41	1/2	1,399.18	1/2	1,739.98	1/2	2,080.79	1/2	2,421.57	1/2	2,762.36	1/2	3,103.14	
3/4	144.57	3/4	423.58	3/4	731.91	3/4	1,065.50	3/4	1,406.28	3/4	1,747.08	3/4	2,087.89	3/4	2,428.67	3/4	2,769.46	3/4	3,110.24	
7	150.06	7	429.69	7	738.61	7	1,072.58	7	1,413.38	7	1,754.18	7	2,094.99	7	2,435.77	7	2,776.56	7	3,117.34	
1/4	155.61	1/4	435.85	1/4	745.35	1/4	1,079.68	1/4	1,420.48	1/4	1,761.28	1/4	2,102.09	1/4	2,442.87	1/4	2,783.86	1/4	3,124.44	
1/2	161.15	1/2	442.00	1/2	752.09	1/2	1,086.78	1/2	1,427.58	1/2	1,768.38	1/2	2,109.19	1/2	2,449.97	1/2	2,790.76	1/2	3,131.54	
3/4	166.70	3/4	448.16	3/4	758.82	3/4	1,093.88	3/4	1,434.68	3/4	1,775.48	3/4	2,116.29	3/4	2,457.07	3/4	2,797.86	3/4	3,138.64	
8	172.24	8	454.32	8	765.56	8	1,100.98	8	1,441.78	8	1,782.58	8	2,123.39	8	2,464.17	8	2,804.96	8	3,145.74	
1/4	177.84	1/4	460.52	1/4	772.35	1/4	1,108.08	1/4	1,448.98	1/4	1,789.58	1/4	2,130.49	1/4	2,471.27	1/4	2,812.06	1/4	3,152.84	
1/2	183.44	1/2	468.73	1/2	779.13	1/2	1,115.18	1/2	1,455.98	1/2	1,796.78	1/2	2,137.58	1/2	2,478.37	1/2	2,819.16	1/2	3,159.94	
3/4	189.03	3/4	472.94	3/4	785.92	3/4	1,122.28	3/4	1,463.08	3/4	1,803.98	3/4	2,144.68	3/4	2,485.47	3/4	2,826.26	3/4	3,167.04	
9	194.63	9	479.15	9	792.70	9	1,129.38	9	1,470.18	9	1,810.98	9	2,151.78	9	2,492.57	9	2,833.36	9	3,174.14	
1/4	200.28	1/4	485.41	1/4	799.53	1/4	1,136.48	1/4	1,477.28	1/4	1,818.08	1/4	2,158.88	1/4	2,499.67	1/4	2,840.46	1/4	3,181.24	
1/2	205.92	1/2	491.66	1/2	806.36	1/2	1,143.58	1/2	1,484.38	1/2	1,825.18	1/2	2,165.98	1/2	2,506.77	1/2	2,847.55	1/2	3,188.34	
3/4	211.57	3/4	497.92	3/4	813.19	3/4	1,150.68	3/4	1,491.48	3/4	1,832.28	3/4	2,173.08	3/4	2,513.87	3/4	2,854.85	3/4	3,196.44	
10	217.22	10	504.18	10	820.02	10	1,157.18	10	1,498.68	10	1,838.38	10	2,180.18	10	2,520.97	10	2,861.75	10	3,202.64	
1/4	222.92	1/4	510.49	1/4	826.90	1/4	1,164.88	1/4	1,505.68	1/4	1,846.49	1/4	2,187.28	1/4	2,528.07	1/4	2,868.85	1/4	3,208.64	
1/2	228.61	1/2	516.80	1/2	832.90	1/2	1,171.98	1/2	1,512.78	1/2	1,853.59	1/2	2,194.38	1/2	2,535.17	1/2	2,879.55	1/2	3,216.74	
3/4	234.31	3/4	523.11	3/4	840.66	3/4	1,179.08	3/4	1,519.88	3/4	1,860.69	3/4	2,201.48	3/4	2,542.27	3/4	2,883.05	3/4	3,223.84	
11	240.01	11	529.42	11	847.54	11	1,186.18	11	1,526.98	11	1,867.79	11	2,208.58	11	2,549.37	11	2,890.37	11	3,230.94	
1/4	245.76	1/4	535.78	1/4	854.46	1/4	1,193.28	1/4	1,534.08	1/4	1,874.89	1/4	2,217.19	1/4	2,556.47	1/4	2,897.25	1/4	3,238.04	
1/2	251.52	1/2	541.54	1/2	860.39	1/2	1,200.38	1/2	1,541.18	1/2	1,881.99	1/2	2,222.78	1/2	2,563.57	1/2	2,904.35	1/2	3,245.14	
3/4	257.28	3/4	548.50	3/4	868.32	3/4	1,207.48	3/4	1,548.28	3/4	1,888.09	3/4	2,229.99	3/4	2,569.87	3/4	2,910.45	3/4	3,251.54	



BARGE "EMS 502"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 18'-05 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.	IN	20 FT.	IN	21 FT.
0	3,259.34	0	3,600.14	0	3,936.37	0	4,250.69	0	4,541.06	0	4,808.13	0		0		0		0		0		0	
1/4	3,266.44	1/4	3,607.24	1/4	3,943.14	1/4	4,256.96	1/4	4,546.84	1/4	4,813.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.54	1/2	3,614.34	1/2	3,949.92	1/2	4,263.23	1/2	4,552.63	1/2	4,818.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.64	3/4	3,621.44	3/4	3,956.70	3/4	4,269.50	3/4	4,558.41	3/4	4,824.03	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,287.74	1	3,628.54	1	3,963.47	1	4,275.78	1	4,564.20	1	4,829.33	1		1		1		1		1		1	
1/4	3,294.84	1/4	3,635.64	1/4	3,970.21	1/4	4,282.01	1/4	4,569.95	1/4	4,835.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,301.94	1/2	3,642.74	1/2	3,976.95	1/2	4,288.24	1/2	4,575.69	1/2	4,841.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.04	3/4	3,649.84	3/4	3,983.68	3/4	4,294.47	3/4	4,581.44	3/4	4,847.87	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,316.14	2	3,656.94	2	3,990.42	2	4,300.70	2	4,587.19	2	4,854.05	2		2		2		2		2		2	
1/4	3,323.24	1/4	3,664.04	1/4	3,997.11	1/4	4,306.89	1/4	4,592.89	1/4	4,859.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,330.34	1/2	3,671.14	1/2	4,003.81	1/2	4,313.08	1/2	4,598.60	1/2	4,866.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.44	3/4	3,678.24	3/4	4,010.50	3/4	4,319.27	3/4	4,604.30	3/4	4,875.30	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,344.54	3	3,685.34	3	4,017.20	3	4,325.46	3	4,610.01	3	4,882.38	3		3		3		3		3		3	
1/4	3,351.64	1/4	3,692.44	1/4	4,023.85	1/4	4,331.61	1/4	4,615.67	1/4	4,889.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,358.74	1/2	3,699.54	1/2	4,030.51	1/2	4,337.76	1/2	4,621.34	1/2	4,896.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,365.84	3/4	3,706.64	3/4	4,037.16	3/4	4,343.92	3/4	4,627.00	3/4	4,903.62	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,372.94	4	3,713.74	4	4,043.82	4	4,350.07	4	4,632.67	4	4,910.70	4		4		4		4		4		4	
1/4	3,380.04	1/4	3,720.83	1/4	4,050.43	1/4	4,356.18	1/4	4,638.29	1/4	4,917.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,387.14	1/2	3,727.92	1/2	4,057.05	1/2	4,362.29	1/2	4,643.92	1/2	4,923.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,394.24	3/4	3,735.01	3/4	4,063.66	3/4	4,368.40	3/4	4,649.54	3/4	4,930.51	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,401.34	5	3,742.10	5	4,070.28	5	4,374.51	5	4,655.17	5	4,937.25	5		5		5		5		5		5	
1/4	3,408.44	1/4	3,749.16	1/4	4,076.85	1/4	4,380.58	1/4	4,660.75	1/4	4,943.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,415.54	1/2	3,756.22	1/2	4,083.43	1/2	4,386.64	1/2	4,666.33	1/2	4,949.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,422.64	3/4	3,763.28	3/4	4,090.00	3/4	4,392.71	3/4	4,671.92	3/4	4,955.96	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,429.74	6	3,770.34	6	4,096.58	6	4,398.78	6	4,677.50	6	4,961.50	6		6		6		6		6		6	
1/4	3,436.84	1/4	3,777.35	1/4	4,103.11	1/4	4,404.81	1/4	4,683.05	1/4	4,967.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,443.94	1/2	3,784.37	1/2	4,109.64	1/2	4,410.84	1/2	4,688.59	1/2	4,973.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,451.04	3/4	3,791.39	3/4	4,116.18	3/4	4,416.87	3/4	4,694.13	3/4	4,979.62	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,458.14	7	3,798.41	7	4,122.71	7	4,422.90	7	4,699.68	7	4,985.66	7		7		7		7		7		7	
1/4	3,465.24	1/4	3,805.39	1/4	4,129.20	1/4	4,428.89	1/4	4,705.18	1/4	4,991.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,472.34	1/2	3,812.37	1/2	4,135.70	1/2	4,434.88	1/2	4,710.68	1/2	4,997.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,479.44	3/4	3,819.35	3/4	4,142.19	3/4	4,440.87	3/4	4,716.19	3/4	5,003.78	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,486.54	8	3,826.33	8	4,148.68	8	4,446.85	8	4,721.69	8	5,009.82	8		8		8		8		8		8	
1/4	3,493.64	1/4	3,833.27	1/4	4,155.13	1/4	4,452.80	1/4	4,727.15	1/4	5,015.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,500.74	1/2	3,840.20	1/2	4,161.57	1/2	4,458.75	1/2	4,732.62	1/2	5,021.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,507.84	3/4	3,847.14	3/4	4,168.01	3/4	4,464.70	3/4	4,738.08	3/4	5,027.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,514.94	9	3,854.08	9	4,174.46	9	4,470.65	9	4,743.54	9	5,033.98	9		9		9		9		9		9	
1/4	3,522.04	1/4	3,860.98	1/4	4,180.85	1/4	4,476.56	1/4	4,748.97	1/4	5,039.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,529.14	1/2	3,867.88	1/2	4,187.24	1/2	4,482.46	1/2	4,754.39	1/2	5,046.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,536.24	3/4	3,874.77	3/4	4,193.64	3/4	4,488.37	3/4	4,759.81	3/4	5,052.07	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,543.34	10	3,881.67	10	4,200.03	10	4,494.28	10	4,765.23	10	5,058.11	10		10		10		10		10		10	
1/4	3,550.44	1/4	3,888.53	1/4	4,206.38	1/4	4,500.15	1/4	4,770.61	1/4	5,064.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,557.54	1/2	3,895.39	1/2	4,212.73	1/2	4,506.01	1/2	4,776.00	1/2	5,070.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,564.64	3/4	3,902.24	3/4	4,219.09	3/4	4,511.88	3/4	4,781.38	3/4	5,076.23	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,571.74	11	3,909.10	11	4,225.44	11	4,517.75	11	4,786.76	11	5,082.27	11		11		11		11		11		11	
1/4	3,578.84	1/4	3,915.92	1/4	4,231.75	1/4	4,523.57	1/4	4,792.10	1/4	5,088.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,585.94	1/2	3,922.73	1/2	4,238.06	1/2	4,529.40	1/2	4,797.44	1/2	5,094.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.04	3/4	3,929.65	3/4	4,244.38	3/4	4,535.23	3/4	4,802.78	3/4	5,100.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018

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Pearland, Texas 77588
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Paul J. Gamm



BARGE "EMS 502"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 U.S. GALLONS												GAUGE HEIGHT 16'-05 1/4"																			
0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.				
IN	0	10.40	IN	0	263.50	IN	0	555.86	IN	0	876.76	IN	0	1,216.60	IN	0	1,557.90	IN	0	1,899.20	IN	0	2,240.49	IN	0	2,581.77	IN	0	2,923.05		
1/4	13.72	269.31	1/4	13.72	269.31	1/4	562.28	1/4	883.75	1/4	1,233.71	1/4	1,565.01	1/4	1,906.31	1/4	2,247.60	1/4	2,588.88	1/4	2,930.16	1/4	3,271.44	1/4	3,612.72	1/4	3,954.00	1/4	4,295.28		
1/2	17.03	276.13	1/2	17.03	276.13	1/2	568.70	1/2	890.74	1/2	1,230.82	1/2	1,572.12	1/2	1,913.42	1/2	2,254.71	1/2	2,595.99	1/2	2,937.27	1/2	3,278.55	1/2	3,619.83	1/2	3,961.11	1/2	4,302.39		
3/4	20.35	280.94	3/4	20.35	280.94	3/4	575.13	3/4	907.73	3/4	1,237.93	3/4	1,579.23	3/4	1,920.53	3/4	2,261.82	3/4	2,603.10	3/4	2,944.38	3/4	3,285.66	3/4	3,626.94	3/4	3,968.22	3/4	4,309.50		
1	23.67	286.75	1	23.67	286.75	1	581.55	1	904.72	1	1,245.04	1	1,586.34	1	1,927.64	1	2,268.93	1	2,610.21	1	2,951.49	1	3,292.77	1	3,634.05	1	3,975.33	1	4,316.61		
1 1/4	28.33	292.61	1 1/4	28.33	292.61	1 1/4	588.02	1 1/4	911.76	1 1/4	1,252.16	1 1/4	1,593.45	1 1/4	1,934.75	1 1/4	2,276.04	1 1/4	2,617.32	1 1/4	2,958.60	1 1/4	3,299.88	1 1/4	3,641.16	1 1/4	3,982.44	1 1/4	4,323.72		
1 1/2	32.99	298.47	1 1/2	32.99	298.47	1 1/2	594.49	1 1/2	918.79	1 1/2	1,259.26	1 1/2	1,600.56	1 1/2	1,941.86	1 1/2	2,283.15	1 1/2	2,624.43	1 1/2	2,965.71	1 1/2	3,306.99	1 1/2	3,648.27	1 1/2	3,989.55	1 1/2	4,330.83		
1 3/4	37.64	304.33	1 3/4	37.64	304.33	1 3/4	600.97	1 3/4	925.63	1 3/4	1,266.37	1 3/4	1,607.67	1 3/4	1,948.97	1 3/4	2,290.26	1 3/4	2,631.54	1 3/4	2,972.82	1 3/4	3,314.10	1 3/4	3,655.38	1 3/4	3,996.66	1 3/4	4,337.94		
2	42.30	310.19	2	42.30	310.19	2	607.44	2	932.86	2	1,273.48	2	1,614.78	2	1,956.08	2	2,297.37	2	2,638.65	2	2,979.93	2	3,321.21	2	3,662.49	2	3,999.77	2	4,340.05		
2 1/4	47.50	316.10	2 1/4	47.50	316.10	2 1/4	613.96	2 1/4	939.93	2 1/4	1,281.71	2 1/4	1,622.00	2 1/4	1,963.30	2 1/4	2,304.59	2 1/4	2,645.87	2 1/4	2,987.15	2 1/4	3,328.43	2 1/4	3,669.71	2 1/4	4,009.99	2 1/4	4,351.27		
2 1/2	52.90	322.02	2 1/2	52.90	322.02	2 1/2	620.43	2 1/2	946.99	2 1/2	1,287.71	2 1/2	1,629.00	2 1/2	1,970.30	2 1/2	2,311.59	2 1/2	2,652.87	2 1/2	2,994.15	2 1/2	3,335.43	2 1/2	3,676.71	2 1/2	4,015.99	2 1/2	4,357.27		
2 3/4	58.20	327.93	2 3/4	58.20	327.93	2 3/4	627.01	2 3/4	954.05	2 3/4	1,294.82	2 3/4	1,635.11	2 3/4	1,977.41	2 3/4	2,318.70	2 3/4	2,659.98	2 3/4	2,999.26	2 3/4	3,341.54	2 3/4	3,682.82	2 3/4	4,021.10	2 3/4	4,362.38		
3	63.50	333.84	3	63.50	333.84	3	633.54	3	961.11	3	1,301.93	3	1,643.23	3	1,984.52	3	2,325.81	3	2,667.09	3	3,008.37	3	3,349.65	3	3,690.93	3	4,031.21	3	4,372.49		
3 1/4	68.86	339.80	3 1/4	68.86	339.80	3 1/4	640.11	3 1/4	968.18	3 1/4	1,309.04	3 1/4	1,650.34	3 1/4	1,991.63	3 1/4	2,332.92	3 1/4	2,674.20	3 1/4	3,015.48	3 1/4	3,356.76	3 1/4	3,698.04	3 1/4	4,039.32	3 1/4	4,380.60		
3 1/2	74.21	345.77	3 1/2	74.21	345.77	3 1/2	646.68	3 1/2	975.25	3 1/2	1,316.15	3 1/2	1,657.45	3 1/2	1,998.74	3 1/2	2,340.03	3 1/2	2,681.31	3 1/2	3,023.59	3 1/2	3,364.87	3 1/2	3,706.15	3 1/2	4,047.43	3 1/2	4,388.71		
3 3/4	79.56	351.73	3 3/4	79.56	351.73	3 3/4	653.28	3 3/4	982.31	3 3/4	1,323.26	3 3/4	1,664.56	3 3/4	2,005.86	3 3/4	2,347.14	3 3/4	2,688.42	3 3/4	3,029.70	3 3/4	3,371.98	3 3/4	3,714.26	3 3/4	4,055.54	3 3/4	4,396.82		
4	84.91	357.69	4	84.91	357.69	4	659.84	4	989.38	4	1,330.37	4	1,671.67	4	2,012.97	4	2,354.25	4	2,695.53	4	3,036.81	4	3,378.09	4	3,720.37	4	4,061.65	4	4,402.93	4	4,444.21
4 1/4	90.31	363.71	4 1/4	90.31	363.71	4 1/4	666.46	4 1/4	996.45	4 1/4	1,337.48	4 1/4	1,678.78	4 1/4	2,020.08	4 1/4	2,361.36	4 1/4	2,702.64	4 1/4	3,043.92	4 1/4	3,385.20	4 1/4	3,727.48	4 1/4	4,068.76	4 1/4	4,410.04		
4 1/2	95.72	369.72	4 1/2	95.72	369.72	4 1/2	673.09	4 1/2	1,003.53	4 1/2	1,344.59	4 1/2	1,685.89	4 1/2	2,027.19	4 1/2	2,368.47	4 1/2	2,709.75	4 1/2	3,051.03	4 1/2	3,392.31	4 1/2	3,734.59	4 1/2	4,074.87	4 1/2	4,416.15		
4 3/4	101.12	375.74	4 3/4	101.12	375.74	4 3/4	679.71	4 3/4	1,010.60	4 3/4	1,351.70	4 3/4	1,693.00	4 3/4	2,034.30	4 3/4	2,375.58	4 3/4	2,716.86	4 3/4	3,058.14	4 3/4	3,399.42	4 3/4	3,741.70	4 3/4	4,083.98	4 3/4	4,424.26		
5	106.52	381.75	5	106.52	381.75	5	686.34	5	1,017.67	5	1,358.81	5	1,700.11	5	2,041.41	5	2,382.69	5	2,723.97	5	3,065.25	5	3,406.53	5	3,747.81	5	4,089.07	5	4,430.35	5	4,471.63
5 1/4	111.98	387.82	5 1/4	111.98	387.82	5 1/4	693.02	5 1/4	1,024.76	5 1/4	1,365.92	5 1/4	1,707.22	5 1/4	2,048.52	5 1/4	2,389.80	5 1/4	2,731.08	5 1/4	3,072.37	5 1/4	3,413.65	5 1/4	3,754.93	5 1/4	4,097.21	5 1/4	4,438.49		
5 1/2	117.43	393.88	5 1/2	117.43	393.88	5 1/2	699.69	5 1/2	1,031.84	5 1/2	1,373.03	5 1/2	1,714.33	5 1/2	2,055.63	5 1/2	2,396.91	5 1/2	2,738.19	5 1/2	3,079.48	5 1/2	3,420.76	5 1/2	3,762.04	5 1/2	4,103.32	5 1/2	4,444.60		
5 3/4	122.88	399.95	5 3/4	122.88	399.95	5 3/4	706.37	5 3/4	1,038.92	5 3/4	1,380.14	5 3/4	1,721.44	5 3/4	2,063.74	5 3/4	2,405.02	5 3/4	2,746.30	5 3/4	3,087.59	5 3/4	3,428.87	5 3/4	3,771.15	5 3/4	4,109.43	5 3/4	4,450.71		
6	128.34	406.01	6	128.34	406.01	6	713.05	6	1,046.00	6	1,387.25	6	1,728.55	6	2,069.85	6	2,411.13	6	2,752.41	6	3,093.70	6	3,434.98	6	3,776.26	6	4,117.54	6	4,458.82	6	4,499.10
6 1/4	133.84	412.13	6 1/4	133.84	412.13	6 1/4	719.76	6 1/4	1,053.10	6 1/4	1,394.36	6 1/4	1,735.66	6 1/4	2,076.96	6 1/4	2,418.24	6 1/4	2,759.52	6 1/4	3,100.81	6 1/4	3,442.09	6 1/4	3,783.37	6 1/4	4,123.65	6 1/4	4,464.93		
6 1/2	139.35	418.24	6 1/2	139.35	418.24	6 1/2	726.47	6 1/2	1,060.20	6 1/2	1,401.47	6 1/2	1,747.77	6 1/2	2,084.07	6 1/2	2,425.35	6 1/2	2,766.63	6 1/2	3,107.92	6 1/2	3,449.20	6 1/2	3,790.48	6 1/2	4,129.04	6 1/2	4,470.30		
6 3/4	144.85	424.36	6 3/4	144.85	424.36	6 3/4	733.19	6 3/4	1,067.30	6 3/4	1,408.58	6 3/4	1,748.88	6 3/4	2,091.18	6 3/4	2,432.46	6 3/4	2,773.74	6 3/4	3,115.03	6 3/4	3,457.32	6 3/4	3,799.60	6 3/4	4,134.16	6 3/4	4,475.44		
7	150.35	430.48	7	150.35	430.48	7	739.90	7	1,074.39	7	1,415.69	7	1,756.99	7	2,098.29	7	2,439.57	7	2,780.85	7	3,122.14	7	3,463.42	7	3,804.70	7	4,145.98	7	4,487.26	7	4,528.54
7 1/4	155.91	436.64	7 1/4	155.91	436.64	7 1/4	746.65	7 1/4	1,081.50	7 1/4	1,422.80	7 1/4	1,764.10	7 1/4	2,105.40	7 1/4	2,446.68	7 1/4	2,787.96	7 1/4	3,129.25	7 1/4	3,470.53	7 1/4	3,811.81	7 1/4	4,154.29	7 1/4	4,495.57		
7 1/2	161.47	442.81	7 1/2	161.47	442.81	7 1/2	753.39	7 1/2	1,088.61	7 1/2	1,429.91	7 1/2	1,771.21	7 1/2	2,112.51	7 1/2	2,453.79	7 1/2	2,795.07	7 1/2	3,136.36	7 1/2	3,477.64	7 1/2	3,819.92	7 1/2	4,160.40	7 1/2	4,501.68		
7 3/4	167.02	448.98	7 3/4	167.02	448.98	7 3/4	760.14	7 3/4	1,095.72	7 3/4	1,437.02	7 3/4	1,778.32	7 3/4	2,119.62	7 3/4	2,460.90	7 3/4	2,802.18	7 3/4	3,143.47	7 3/4	3,484.75	7 3/4	3,828.03	7 3/4	4,169.31	7 3/4	4,507.59		
8	172.58	455.15	8	172.58	455.15	8	766.89	8	1,102.83	8	1,444.13	8	1,785.43	8	2,126.73	8	2,468.01	8	2,809.29	8	3,150.58	8	3,491.86	8	3,833.14	8	4,174.42	8	4,515.70		
8 1/4	178.18	461.36	8 1/4	178.18	461.36	8 1/4	773.68	8 1/4	1,109.95	8 1/4	1,451.24	8 1/4	1,792.54	8 1/4	2,133.84	8 1/4															



BARGE "EMS 502"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 16'-05 1/4"											
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.				
0	3,264.34	0	3,805.84	0	3,942.37	0	4,257.19	0	4,548.05	0	4,815.62	0		0		0							
1/4	3,271.45	1/4	3,612.75	1/4	3,949.15	1/4	4,263.47	1/4	4,553.85	1/4	4,820.93	1/4		1/4		1/4							
1/2	3,278.56	1/2	3,619.86	1/2	3,956.26	1/2	4,270.58	1/2	4,558.96	1/2	4,826.24	1/2		1/2		1/2							
3/4	3,285.67	3/4	3,626.97	3/4	3,963.37	3/4	4,276.03	3/4	4,565.44	3/4	4,831.55	3/4		3/4		3/4							
1	3,292.78	1	3,634.08	1	3,969.52	1	4,282.31	1	4,571.24	1	4,836.87	1		1		1							
1 1/4	3,299.89	1 1/4	3,641.19	1 1/4	3,976.26	1 1/4	4,288.56	1 1/4	4,577.00	1 1/4	4,843.06	1 1/4		1 1/4		1 1/4							
1 1/2	3,307.01	1 1/2	3,648.30	1 1/2	3,983.01	1 1/2	4,294.80	1 1/2	4,582.75	1 1/2	4,849.26	1 1/2		1 1/2		1 1/2							
3/4	3,314.12	3/4	3,655.41	3/4	3,989.76	3/4	4,301.04	3/4	4,588.51	3/4	4,855.44	3/4		3/4		3/4							
2	3,321.23	2	3,662.52	2	3,995.50	2	4,307.28	2	4,594.26	2	4,861.63	2		2		2							
2 1/4	3,328.34	2 1/4	3,669.63	2 1/4	4,003.21	2 1/4	4,313.48	2 1/4	4,599.98	2 1/4	4,868.72	2 1/4		2 1/4		2 1/4							
1 1/2	3,335.45	1 1/2	3,676.74	1 1/2	4,009.91	1 1/2	4,319.68	1 1/2	4,605.70	1 1/2	4,875.81	1 1/2		1 1/2		1 1/2							
3/4	3,342.56	3/4	3,683.85	3/4	4,016.62	3/4	4,325.89	3/4	4,611.41	3/4	4,882.90	3/4		3/4		3/4							
3	3,349.67	3	3,690.96	3	4,023.32	3	4,332.09	3	4,617.13	3	4,890.00	3		3		3							
1 1/4	3,356.78	1 1/4	3,698.07	1 1/4	4,029.89	1 1/4	4,338.25	1 1/4	4,622.80	1 1/4	4,897.09	1 1/4		1 1/4		1 1/4							
1 1/2	3,363.89	1 1/2	3,705.18	1 1/2	4,036.66	1 1/2	4,344.41	1 1/2	4,628.48	1 1/2	4,904.18	1 1/2		1 1/2		1 1/2							
3/4	3,371.00	3/4	3,712.29	3/4	4,043.32	3/4	4,350.57	3/4	4,634.15	3/4	4,911.27	3/4		3/4		3/4							
4	3,378.11	4	3,719.40	4	4,049.89	4	4,356.73	4	4,639.83	4	4,918.36	4		4		4							
1 1/4	3,385.22	1 1/4	3,726.50	1 1/4	4,056.61	1 1/4	4,362.85	1 1/4	4,645.48	1 1/4	4,925.01	1 1/4		1 1/4		1 1/4							
1 1/2	3,392.33	1 1/2	3,733.61	1 1/2	4,063.24	1 1/2	4,368.97	1 1/2	4,651.10	1 1/2	4,931.65	1 1/2		1 1/2		1 1/2							
3/4	3,399.44	3/4	3,740.71	3/4	4,069.86	3/4	4,375.09	3/4	4,656.73	3/4	4,938.30	3/4		3/4		3/4							
5	3,406.55	5	3,747.81	5	4,076.49	5	4,381.21	5	4,662.37	5	4,944.95	5		5		5							
1 1/4	3,413.66	1 1/4	3,754.88	1 1/4	4,083.07	1 1/4	4,387.29	1 1/4	4,667.96	1 1/4	4,951.00	1 1/4		1 1/4		1 1/4							
1 1/2	3,420.77	1 1/2	3,761.95	1 1/2	4,089.66	1 1/2	4,393.37	1 1/2	4,673.56	1 1/2	4,956.59	1 1/2		1 1/2		1 1/2							
3/4	3,427.88	3/4	3,769.02	3/4	4,096.24	3/4	4,399.45	3/4	4,679.15	3/4	4,962.18	3/4		3/4		3/4							
6	3,434.99	6	3,776.09	6	4,102.82	6	4,405.53	6	4,684.75	6	4,967.30	6		6		6							
1 1/4	3,442.10	1 1/4	3,783.12	1 1/4	4,109.37	1 1/4	4,411.57	1 1/4	4,690.30	1 1/4	4,972.43	1 1/4		1 1/4		1 1/4							
1 1/2	3,449.21	1 1/2	3,790.15	1 1/2	4,116.91	1 1/2	4,416.91	1 1/2	4,695.86	1 1/2	4,977.56	1 1/2		1 1/2		1 1/2							
3/4	3,456.32	3/4	3,797.18	3/4	4,122.46	3/4	4,423.65	3/4	4,701.41	3/4	4,983.60	3/4		3/4		3/4							
7	3,463.43	7	3,804.21	7	4,129.00	7	4,429.69	7	4,706.96	7	4,989.97	7		7		7							
1 1/4	3,470.54	1 1/4	3,811.19	1 1/4	4,135.50	1 1/4	4,435.89	1 1/4	4,712.48	1 1/4	4,995.06	1 1/4		1 1/4		1 1/4							
1 1/2	3,477.65	1 1/2	3,818.18	1 1/2	4,142.01	1 1/2	4,441.69	1 1/2	4,717.99	1 1/2	4,999.15	1 1/2		1 1/2		1 1/2							
3/4	3,484.76	3/4	3,825.17	3/4	4,148.51	3/4	4,447.69	3/4	4,723.51	3/4	5,001.24	3/4		3/4		3/4							
8	3,491.87	8	3,832.16	8	4,155.02	8	4,453.68	8	4,729.02	8	5,003.33	8		8		8							
1 1/4	3,498.98	1 1/4	3,839.11	1 1/4	4,161.47	1 1/4	4,459.84	1 1/4	4,734.49	1 1/4	5,005.42	1 1/4		1 1/4		1 1/4							
1 1/2	3,506.09	1 1/2	3,846.06	1 1/2	4,167.92	1 1/2	4,465.60	1 1/2	4,739.97	1 1/2	5,007.51	1 1/2		1 1/2		1 1/2							
3/4	3,513.20	3/4	3,853.01	3/4	4,174.38	3/4	4,471.56	3/4	4,745.44	3/4	5,009.60	3/4		3/4		3/4							
9	3,520.31	9	3,859.96	9	4,180.83	9	4,477.52	9	4,750.91	9	5,011.69	9		9		9							
1 1/4	3,527.42	1 1/4	3,866.86	1 1/4	4,187.23	1 1/4	4,483.44	1 1/4	4,756.35	1 1/4	5,013.78	1 1/4		1 1/4		1 1/4							
1 1/2	3,534.53	1 1/2	3,873.77	1 1/2	4,193.64	1 1/2	4,489.36	1 1/2	4,761.76	1 1/2	5,015.87	1 1/2		1 1/2		1 1/2							
3/4	3,541.64	3/4	3,880.68	3/4	4,200.04	3/4	4,495.27	3/4	4,767.21	3/4	5,017.96	3/4		3/4		3/4							
10	3,548.76	10	3,887.59	10	4,206.44	10	4,501.19	10	4,772.64	10	5,019.05	10		10		10							
1 1/4	3,555.87	1 1/4	3,894.46	1 1/4	4,212.81	1 1/4	4,507.07	1 1/4	4,778.04	1 1/4	5,021.14	1 1/4		1 1/4		1 1/4							
1 1/2	3,562.98	1 1/2	3,901.32	1 1/2	4,219.17	1 1/2	4,512.95	1 1/2	4,783.43	1 1/2	5,023.23	1 1/2		1 1/2		1 1/2							
3/4	3,570.09	3/4	3,908.19	3/4	4,225.53	3/4	4,518.82	3/4	4,788.82	3/4	5,025.32	3/4		3/4		3/4							
11	3,577.20	11	3,915.06	11	4,231.90	11	4,524.70	11	4,794.21	11	5,027.41	11		11		11							
1 1/4	3,584.31	1 1/4	3,921.89	1 1/4	4,238.22	1 1/4	4,530.54	1 1/4	4,799.56	1 1/4	5,029.50	1 1/4		1 1/4		1 1/4							
1 1/2	3,591.42	1 1/2	3,928.71	1 1/2	4,244.54	1 1/2	4,536.38	1 1/2	4,804.92	1 1/2	5,031.59	1 1/2		1 1/2		1 1/2							
3/4	3,598.53	3/4	3,935.54	3/4	4,250.86	3/4	4,542.21	3/4	4,810.27	3/4	5,033.68	3/4		3/4		3/4							

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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

Chris Jones



BARGE "EMS 502"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN		0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0 FT.	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	13.91	0	387.97	0	1,162.69	0	1,550.22	0	1,937.74	0	2,325.27	0	2,712.79	0	3,100.30	0	3,487.81	0	3,875.33	0	4,262.84
1/4	19.29	1/4	396.05	1/4	1,170.76	1/4	1,558.29	1/4	1,945.82	1/4	2,333.35	1/4	2,720.87	1/4	3,108.38	1/4	3,495.89	1/4	3,883.41	1/4	4,270.92
1/2	24.68	1/2	404.12	1/2	1,178.84	1/2	1,566.36	1/2	1,953.89	1/2	2,341.42	1/2	2,728.94	1/2	3,116.45	1/2	3,503.96	1/2	3,891.48	1/2	4,278.99
3/4	30.06	3/4	412.19	3/4	1,186.91	3/4	1,574.44	3/4	1,961.97	3/4	2,349.49	3/4	2,737.01	3/4	3,124.52	3/4	3,512.03	3/4	3,899.54	3/4	4,287.05
1	35.44	1	420.27	1	1,194.98	1	1,582.51	1	1,970.04	1	2,357.57	1	2,745.09	1	3,132.59	1	3,520.10	1	3,907.61	1	4,295.12
1/4	42.84	1/4	428.34	1/4	1,203.06	1/4	1,590.58	1/4	1,978.11	1/4	2,365.64	1/4	2,753.16	1/4	3,140.67	1/4	3,528.18	1/4	3,915.69	1/4	4,303.20
1/2	50.24	1/2	436.41	1/2	1,211.13	1/2	1,598.66	1/2	1,986.19	1/2	2,373.71	1/2	2,761.23	1/2	3,148.74	1/2	3,536.25	1/2	3,923.76	1/2	4,310.77
3/4	57.64	3/4	444.49	3/4	1,219.20	3/4	1,606.73	3/4	1,994.26	3/4	2,381.79	3/4	2,769.30	3/4	3,156.81	3/4	3,544.32	3/4	3,931.83	3/4	4,318.84
1	65.04	1	452.66	1	1,227.28	1	1,614.80	1	2,002.33	1	2,389.86	1	2,777.38	1	3,164.89	1	3,552.40	1	3,939.91	1	4,326.85
1/4	73.12	1/4	460.63	1/4	1,235.35	1/4	1,622.88	1/4	2,010.41	1/4	2,397.93	1/4	2,785.45	1/4	3,172.96	1/4	3,560.47	1/4	3,947.98	1/4	4,334.86
1/2	81.19	1/2	468.71	1/2	1,243.42	1/2	1,630.95	1/2	2,018.48	1/2	2,405.01	1/2	2,792.52	1/2	3,178.03	1/2	3,565.54	1/2	3,953.05	1/2	4,340.56
3/4	89.26	3/4	476.78	3/4	1,251.50	3/4	1,639.03	3/4	2,026.55	3/4	2,413.08	3/4	2,800.60	3/4	3,186.11	3/4	3,573.62	3/4	3,961.13	3/4	4,348.64
1	97.34	1	484.85	1	1,259.57	1	1,647.10	1	2,034.63	1	2,422.15	1	2,809.67	1	3,197.18	1	3,584.69	1	3,972.20	1	4,359.71
1/4	105.41	1/4	492.93	1/4	1,267.64	1/4	1,655.17	1/4	2,042.70	1/4	2,430.23	1/4	2,817.74	1/4	3,205.25	1/4	3,592.76	1/4	3,979.77	1/4	4,367.78
1/2	113.48	1/2	501.00	1/2	1,275.72	1/2	1,663.25	1/2	2,050.77	1/2	2,438.30	1/2	2,825.82	1/2	3,213.33	1/2	3,600.84	1/2	3,987.85	1/2	4,375.86
3/4	121.56	3/4	509.07	3/4	1,283.79	3/4	1,671.32	3/4	2,068.85	3/4	2,456.37	3/4	2,843.89	3/4	3,229.40	3/4	3,616.91	3/4	4,003.92	3/4	4,390.93
1	129.63	1	517.15	1	1,291.86	1	1,679.39	1	2,086.92	1	2,474.45	1	2,861.96	1	3,248.97	1	3,636.48	1	4,023.49	1	4,410.50
1/4	137.70	1/4	525.22	1/4	1,299.94	1/4	1,687.47	1/4	2,074.99	1/4	2,462.52	1/4	2,850.04	1/4	3,237.54	1/4	3,625.05	1/4	4,012.56	1/4	4,400.57
1/2	145.78	1/2	533.29	1/2	1,308.01	1/2	1,695.54	1/2	2,083.07	1/2	2,470.60	1/2	2,868.11	1/2	3,245.62	1/2	3,633.13	1/2	4,020.64	1/2	4,408.64
3/4	153.85	3/4	541.37	3/4	1,316.08	3/4	1,703.61	3/4	2,091.14	3/4	2,478.67	3/4	2,874.26	3/4	3,259.77	3/4	3,647.28	3/4	4,034.79	3/4	4,416.75
1	161.92	1	549.44	1	1,324.16	1	1,711.69	1	2,098.21	1	2,486.74	1	2,874.26	1	3,261.76	1	3,649.27	1	4,036.79	1	4,424.82
1/4	170.00	1/4	557.51	1/4	1,332.23	1/4	1,719.76	1/4	2,107.29	1/4	2,494.82	1/4	2,882.33	1/4	3,269.84	1/4	3,657.35	1/4	4,044.86	1/4	4,432.89
1/2	178.07	1/2	565.59	1/2	1,340.31	1/2	1,727.83	1/2	2,115.36	1/2	2,502.89	1/2	2,890.40	1/2	3,277.91	1/2	3,665.42	1/2	4,052.91	1/2	4,440.96
3/4	186.14	3/4	573.66	3/4	1,348.38	3/4	1,735.91	3/4	2,123.44	3/4	2,510.98	3/4	2,898.49	3/4	3,285.98	3/4	3,673.49	3/4	4,060.92	3/4	4,449.03
1	194.22	1	581.73	1	1,356.45	1	1,743.98	1	2,131.51	1	2,519.04	1	2,906.55	1	3,294.06	1	3,681.57	1	4,068.93	1	4,457.09
1/4	202.29	1/4	589.81	1/4	1,364.53	1/4	1,752.05	1/4	2,139.58	1/4	2,527.11	1/4	2,914.62	1/4	3,302.13	1/4	3,689.64	1/4	4,076.94	1/4	4,465.16
1/2	210.36	1/2	597.88	1/2	1,372.60	1/2	1,760.13	1/2	2,147.66	1/2	2,535.18	1/2	2,922.69	1/2	3,310.20	1/2	3,697.71	1/2	4,084.95	1/2	4,473.23
3/4	218.44	3/4	605.95	3/4	1,380.67	3/4	1,768.20	3/4	2,155.73	3/4	2,543.26	3/4	2,930.77	3/4	3,320.77	3/4	3,707.79	3/4	4,092.96	3/4	4,481.30
1	226.51	1	614.03	1	1,388.75	1	1,776.27	1	2,163.80	1	2,551.33	1	2,938.84	1	3,326.35	1	3,713.86	1	4,100.97	1	4,489.37
1/4	234.58	1/4	622.10	1/4	1,396.82	1/4	1,784.33	1/4	2,171.88	1/4	2,559.40	1/4	2,946.91	1/4	3,334.42	1/4	3,721.93	1/4	4,108.98	1/4	4,497.44
1/2	242.66	1/2	630.17	1/2	1,404.89	1/2	1,792.42	1/2	2,179.95	1/2	2,567.48	1/2	2,954.99	1/2	3,342.50	1/2	3,729.01	1/2	4,116.99	1/2	4,505.51
3/4	250.73	3/4	638.25	3/4	1,412.97	3/4	1,800.50	3/4	2,188.02	3/4	2,575.55	3/4	2,963.06	3/4	3,350.57	3/4	3,736.08	3/4	4,125.00	3/4	4,513.58
1	258.80	1	646.32	1	1,421.04	1	1,808.57	1	2,196.10	1	2,583.62	1	2,971.13	1	3,358.64	1	3,744.15	1	4,133.01	1	4,521.65
1/4	266.88	1/4	654.39	1/4	1,429.11	1/4	1,816.64	1/4	2,204.17	1/4	2,591.70	1/4	2,979.21	1/4	3,366.71	1/4	3,752.23	1/4	4,141.02	1/4	4,529.72
1/2	274.95	1/2	662.47	1/2	1,437.19	1/2	1,824.72	1/2	2,212.24	1/2	2,599.77	1/2	2,987.28	1/2	3,374.79	1/2	3,760.30	1/2	4,149.03	1/2	4,537.79
3/4	283.02	3/4	670.54	3/4	1,445.26	3/4	1,832.79	3/4	2,220.32	3/4	2,607.84	3/4	2,995.35	3/4	3,382.86	3/4	3,768.37	3/4	4,157.04	3/4	4,545.86
1	291.10	1	678.61	1	1,453.33	1	1,840.86	1	2,228.39	1	2,615.92	1	3,003.42	1	3,390.93	1	3,776.45	1	4,165.05	1	4,553.93
1/4	299.17	1/4	686.68	1/4	1,461.41	1/4	1,848.91	1/4	2,236.46	1/4	2,623.99	1/4	3,011.50	1/4	3,399.01	1/4	3,784.56	1/4	4,173.06	1/4	4,562.00
1/2	307.24	1/2	694.75	1/2	1,469.48	1/2	1,857.01	1/2	2,244.54	1/2	2,632.06	1/2	3,019.57	1/2	3,407.08	1/2	3,792.60	1/2	4,181.07	1/2	4,570.07
3/4	315.32	3/4	702.82	3/4	1,477.56	3/4	1,865.08	3/4	2,252.61	3/4	2,640.14	3/4	3,027.64	3/4	3,415.15	3/4	3,800.67	3/4	4,189.08	3/4	4,578.14
1	323.39	1	710.88	1	1,485.63	1	1,873.16	1	2,260.68	1	2,648.21	1	3,035.72	1	3,423.23	1	3,810.74	1	4,197.09	1	4,586.21
1/4	331.46	1/4	718.95	1/4	1,493.70	1/4	1,881.23	1/4	2,268.76	1/4	2,656.28	1/4	3,043.79	1/4	3,431.30	1/4	3,818.82	1/4	4,205.10	1/4	4,594.28
1/2	339.54	1/2	727.01	1/2	1,501.78	1/2	1,889.30	1/2	2,276.83	1/2	2,664.35	1/2	3,051.86	1/2	3,439.37	1/2	3,826.89	1/2	4,213.11	1/2	4,602.35
3/4	347.61	3/4	735.07	3/4	1,509.85	3/4	1,897.38	3/4	2,284.90	3/4	2,672.43	3/4	3,059.94	3/4	3,447.45	3/4	3,834.96	3/4	4,221.12	3/4	4,610.42
1	355.68	1	743.14	1	1,517.92	1	1,905.45	1	2,292.98	1	2,680.50	1	3,068.01	1	3,455.52	1	3,843.04	1	4,229.13	1	4,618.49
1/4	363.76	1/4	751.20	1/4	1,526.00	1/4	1,913.52	1/4	2,301.05	1/4	2,688.57	1/4	3,076.08	1/4	3,463.59	1/4	3,851.11	1/4	4,237.14	1/4	4,626.56
1/2	371.83	1/2	759.26	1/2	1,534.07	1/2	1,921.60	1/2	2,309.13	1/2	2,696.65	1/2	3,084.16	1/2	3,471.68	1/2	3,859.18	1/2	4,245.15	1/2	4,634.63
3/4	379.90	3/4	767.33	3/4	1,542.14	3/4	1,929.67	3/4	2,317.20	3/4	2,704.72	3/4	3,092.23	3/4	3,479.74	3/4	3,867.26	3/4	4,253.16	3/4	4,642.70

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK.

GAUGE POINT: (HERMETIC) LOCATED 12" 48" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2062
Pearland, Texas 77588

http://www.pmaacorp.net



BARGE "EMS 502"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,875.33	0	4,262.86	0	4,645.19	0	5,002.61	0	5,332.81	0	5,635.84	0	5,932.81	0	6,232.81	0	6,535.84	0	6,832.81
1/4	3,883.40	1/4	4,270.93	1/4	4,652.89	1/4	5,009.74	1/4	5,339.39	1/4	5,641.75	1/4	5,938.39	1/4	6,238.39	1/4	6,541.75	1/4	6,838.39
1/2	3,891.48	1/2	4,279.01	1/2	4,660.60	1/2	5,016.87	1/2	5,346.97	1/2	5,649.33	1/2	5,946.97	1/2	6,246.97	1/2	6,549.33	1/2	6,846.97
3/4	3,899.56	3/4	4,287.08	3/4	4,668.30	3/4	5,024.00	3/4	5,352.55	3/4	5,655.88	3/4	5,952.55	3/4	6,252.55	3/4	6,555.88	3/4	6,852.55
1	3,907.62	1	4,295.15	1	4,676.01	1	5,031.14	1	5,358.13	1	5,661.50	1	5,958.13	1	6,258.13	1	6,561.50	1	6,858.13
1 1/4	3,915.70	1 1/4	4,303.23	1 1/4	4,683.67	1 1/4	5,038.22	1 1/4	5,365.67	1 1/4	5,669.04	1 1/4	5,965.67	1 1/4	6,265.67	1 1/4	6,569.04	1 1/4	6,865.67
1 1/2	3,923.77	1 1/2	4,311.30	1 1/2	4,691.33	1 1/2	5,046.31	1 1/2	5,372.20	1 1/2	5,673.33	1 1/2	5,970.20	1 1/2	6,270.20	1 1/2	6,573.33	1 1/2	6,870.20
3/4	3,931.84	3/4	4,319.37	3/4	4,699.39	3/4	5,052.40	3/4	5,378.74	3/4	5,680.24	3/4	5,978.74	3/4	6,278.74	3/4	6,580.24	3/4	6,878.74
2	3,939.92	2	4,327.45	2	4,706.65	2	5,059.48	2	5,386.27	2	5,687.16	2	5,986.27	2	6,286.27	2	6,587.16	2	6,886.27
1 1/4	3,947.99	1 1/4	4,335.52	1 1/4	4,714.28	1 1/4	5,066.56	1 1/4	5,391.76	1 1/4	5,695.10	1 1/4	5,991.76	1 1/4	6,291.76	1 1/4	6,595.10	1 1/4	6,891.76
1 1/2	3,956.07	1 1/2	4,343.59	1 1/2	4,721.87	1 1/2	5,073.56	1 1/2	5,398.25	1 1/2	5,703.04	1 1/2	6,000.25	1 1/2	6,300.25	1 1/2	6,603.04	1 1/2	6,900.25
3/4	3,964.14	3/4	4,351.67	3/4	4,729.49	3/4	5,080.60	3/4	5,404.74	3/4	5,710.98	3/4	6,008.74	3/4	6,308.74	3/4	6,610.98	3/4	6,908.74
3	3,972.21	3	4,359.74	3	4,737.10	3	5,087.64	3	5,411.22	3	5,718.92	3	6,016.92	3	6,316.92	3	6,618.92	3	6,916.92
1 1/4	3,980.29	1 1/4	4,367.81	1 1/4	4,744.87	1 1/4	5,094.64	1 1/4	5,417.67	1 1/4	5,726.85	1 1/4	6,026.85	1 1/4	6,326.85	1 1/4	6,628.85	1 1/4	6,926.85
1 1/2	3,988.36	1 1/2	4,375.89	1 1/2	4,752.23	1 1/2	5,101.63	1 1/2	5,424.11	1 1/2	5,734.79	1 1/2	6,034.79	1 1/2	6,334.79	1 1/2	6,636.79	1 1/2	6,934.79
3/4	3,996.43	3/4	4,383.96	3/4	4,759.60	3/4	5,108.63	3/4	5,430.95	3/4	5,742.73	3/4	6,042.73	3/4	6,342.73	3/4	6,644.73	3/4	6,942.73
4	4,004.51	4	4,392.03	4	4,767.37	4	5,115.62	4	5,436.99	4	5,750.67	4	6,052.67	4	6,352.67	4	6,654.67	4	6,952.67
1 1/4	4,012.58	1 1/4	4,400.10	1 1/4	4,774.89	1 1/4	5,122.57	1 1/4	5,443.39	1 1/4	5,758.11	1 1/4	6,064.39	1 1/4	6,364.39	1 1/4	6,666.39	1 1/4	6,966.39
1 1/2	4,020.65	1 1/2	4,408.16	1 1/2	4,782.41	1 1/2	5,129.52	1 1/2	5,449.78	1 1/2	5,765.54	1 1/2	6,070.54	1 1/2	6,370.54	1 1/2	6,672.54	1 1/2	6,972.54
3/4	4,028.73	3/4	4,416.22	3/4	4,789.83	3/4	5,136.47	3/4	5,456.18	3/4	5,772.97	3/4	6,083.97	3/4	6,383.97	3/4	6,686.97	3/4	6,986.97
5	4,036.80	5	4,424.28	5	4,797.45	5	5,143.41	5	5,462.58	5	5,780.41	5	6,097.41	5	6,397.41	5	6,700.41	5	7,000.41
1 1/4	4,044.87	1 1/4	4,432.31	1 1/4	4,804.93	1 1/4	5,150.32	1 1/4	5,468.93	1 1/4	5,788.93	1 1/4	6,105.93	1 1/4	6,405.93	1 1/4	6,708.93	1 1/4	7,008.93
1 1/2	4,052.95	1 1/2	4,440.34	1 1/2	4,812.41	1 1/2	5,157.22	1 1/2	5,475.28	1 1/2	5,793.28	1 1/2	6,110.28	1 1/2	6,410.28	1 1/2	6,713.28	1 1/2	7,013.28
3/4	4,061.02	3/4	4,448.36	3/4	4,819.88	3/4	5,164.14	3/4	5,481.63	3/4	5,799.63	3/4	6,116.63	3/4	6,416.63	3/4	6,719.63	3/4	7,019.63
6	4,069.09	6	4,456.39	6	4,827.36	6	5,171.02	6	5,487.98	6	5,805.98	6	6,122.98	6	6,422.98	6	6,725.98	6	7,025.98
1 1/4	4,077.17	1 1/4	4,464.37	1 1/4	4,834.79	1 1/4	5,177.88	1 1/4	5,494.28	1 1/4	5,812.28	1 1/4	6,129.28	1 1/4	6,429.28	1 1/4	6,732.28	1 1/4	7,032.28
1 1/2	4,085.24	1 1/2	4,472.36	1 1/2	4,842.21	1 1/2	5,184.74	1 1/2	5,500.59	1 1/2	5,818.59	1 1/2	6,135.59	1 1/2	6,435.59	1 1/2	6,738.59	1 1/2	7,038.59
3/4	4,093.31	3/4	4,480.34	3/4	4,849.64	3/4	5,191.59	3/4	5,508.89	3/4	5,826.89	3/4	6,141.89	3/4	6,441.89	3/4	6,744.89	3/4	7,044.89
7	4,101.39	7	4,488.32	7	4,857.07	7	5,198.45	7	5,513.19	7	5,830.19	7	6,145.19	7	6,445.19	7	6,748.19	7	7,048.19
1 1/4	4,109.46	1 1/4	4,496.26	1 1/4	4,864.46	1 1/4	5,205.32	1 1/4	5,519.45	1 1/4	5,836.45	1 1/4	6,151.45	1 1/4	6,451.45	1 1/4	6,754.45	1 1/4	7,054.45
1 1/2	4,117.54	1 1/2	4,504.19	1 1/2	4,871.84	1 1/2	5,212.07	1 1/2	5,525.71	1 1/2	5,842.71	1 1/2	6,157.71	1 1/2	6,457.71	1 1/2	6,760.71	1 1/2	7,060.71
3/4	4,125.61	3/4	4,512.12	3/4	4,879.22	3/4	5,218.88	3/4	5,531.97	3/4	5,848.97	3/4	6,161.97	3/4	6,461.97	3/4	6,764.97	3/4	7,064.97
8	4,133.68	8	4,520.06	8	4,886.61	8	5,225.69	8	5,538.23	8	5,855.23	8	6,168.23	8	6,468.23	8	6,771.23	8	7,071.23
1 1/4	4,141.76	1 1/4	4,527.95	1 1/4	4,893.93	1 1/4	5,232.45	1 1/4	5,544.44	1 1/4	5,861.44	1 1/4	6,173.44	1 1/4	6,473.44	1 1/4	6,776.44	1 1/4	7,076.44
1 1/2	4,149.83	1 1/2	4,535.84	1 1/2	4,901.26	1 1/2	5,239.22	1 1/2	5,550.65	1 1/2	5,867.65	1 1/2	6,179.65	1 1/2	6,479.65	1 1/2	6,782.65	1 1/2	7,082.65
3/4	4,157.90	3/4	4,543.73	3/4	4,908.59	3/4	5,245.98	3/4	5,556.86	3/4	5,873.86	3/4	6,185.86	3/4	6,485.86	3/4	6,788.86	3/4	7,088.86
9	4,165.98	9	4,551.62	9	4,915.91	9	5,252.75	9	5,563.07	9	5,879.07	9	6,191.07	9	6,491.07	9	6,794.07	9	7,094.07
1 1/4	4,174.05	1 1/4	4,559.46	1 1/4	4,923.18	1 1/4	5,259.46	1 1/4	5,569.24	1 1/4	5,885.24	1 1/4	6,197.24	1 1/4	6,497.24	1 1/4	6,800.24	1 1/4	7,100.24
1 1/2	4,182.12	1 1/2	4,567.30	1 1/2	4,930.45	1 1/2	5,266.18	1 1/2	5,575.41	1 1/2	5,891.41	1 1/2	6,203.41	1 1/2	6,503.41	1 1/2	6,806.41	1 1/2	7,106.41
3/4	4,190.20	3/4	4,575.15	3/4	4,937.73	3/4	5,272.90	3/4	5,581.57	3/4	5,897.57	3/4	6,209.57	3/4	6,509.57	3/4	6,812.57	3/4	7,112.57
10	4,198.27	10	4,582.99	10	4,945.00	10	5,279.82	10	5,587.74	10	5,903.74	10	6,215.74	10	6,515.74	10	6,818.74	10	7,120.74
1 1/4	4,206.34	1 1/4	4,590.79	1 1/4	4,952.22	1 1/4	5,286.29	1 1/4	5,598.29	1 1/4	5,914.29	1 1/4	6,226.29	1 1/4	6,526.29	1 1/4	6,829.29	1 1/4	7,130.29
1 1/2	4,214.42	1 1/2	4,598.59	1 1/2	4,959.44	1 1/2	5,292.96	1 1/2	5,604.96	1 1/2	5,920.96	1 1/2	6,232.96	1 1/2	6,532.96	1 1/2	6,836.96	1 1/2	7,136.96
3/4	4,222.49	3/4	4,606.38	3/4	4,966.87	3/4	5,299.64	3/4	5,611.64	3/4	5,929.64	3/4	6,241.64	3/4	6,541.64	3/4	6,844.64	3/4	7,142.64
11	4,230.56	11	4,614.18	11	4,973.89	11	5,306.31	11	5,618.31	11	5,936.31	11	6,248.31	11	6,548.31	11	6,851.31	11	7,154.31
1 1/4	4,238.64	1 1/4	4,621.93	1 1/4	4,981.07	1 1/4	5,312.93	1 1/4	5,624.93	1 1/4	5,942.93	1 1/4	6,254.93	1 1/4	6,554.93	1 1/4	6,857.93	1 1/4	7,160.93
1 1/2	4,246.71	1 1/2	4,629.68	1 1/2	4,988.25	1 1/2	5,319.56	1 1/2	5,631.56	1 1/2	5,949.56	1 1/2	6,261.56	1 1/2	6,561.56	1 1/2	6,864.56	1 1/2	7,166.56
3/4	4,254.78	3/4	4,637.44	3/4	4,995.43	3/4	5,326.19	3/4	5,638.19	3/4	5,956.19	3/4	6,268.19	3/4	6,568.19	3/4	6,871.19	3/4	7,172.19

STRAPPED: 08/16/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/18/2018

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BARGE "EMS 502"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	13.94	0	388.66	0	776.80	0	1,164.43	0	1,552.06	0	1,939.69	0	2,327.32	0	2,714.95	0	3,102.58	0	3,490.21
1/4	19.33	1/4	398.75	1/4	784.88	1/4	1,162.17	1/4	1,544.49	1/4	1,932.11	1/4	2,320.74	1/4	2,708.37	1/4	3,096.00	1/4	3,483.63
1/2	24.72	1/2	404.84	1/2	792.96	1/2	1,169.92	1/2	1,552.58	1/2	1,940.20	1/2	2,328.83	1/2	2,716.46	1/2	3,104.09	1/2	3,491.72
3/4	30.11	3/4	412.92	3/4	801.04	3/4	1,177.66	3/4	1,560.32	3/4	1,947.94	3/4	2,336.57	3/4	2,724.20	3/4	3,111.83	3/4	3,500.46
1	35.50	1	421.01	1	809.12	1	1,185.40	1	1,568.76	1	1,956.38	1	2,344.01	1	2,731.64	1	3,119.27	1	3,506.90
1/4	42.92	1/4	429.10	1/4	817.20	1/4	1,193.14	1/4	1,576.84	1/4	1,965.06	1/4	2,351.37	1/4	2,738.00	1/4	3,126.63	1/4	3,514.26
1/2	50.33	1/2	437.19	1/2	825.28	1/2	1,200.88	1/2	1,584.93	1/2	1,973.15	1/2	2,361.37	1/2	2,749.57	1/2	3,135.20	1/2	3,522.83
3/4	57.74	3/4	445.28	3/4	833.36	3/4	1,208.82	3/4	1,593.02	3/4	1,981.24	3/4	2,369.46	3/4	2,757.66	3/4	3,145.86	3/4	3,530.49
1	65.16	1	453.38	1	841.44	1	1,216.36	1	1,601.11	1	1,989.33	1	2,377.55	1	2,765.75	1	3,153.94	1	3,541.57
1/4	72.57	1/4	461.45	1/4	849.52	1/4	1,224.40	1/4	1,609.20	1/4	1,997.41	1/4	2,385.63	1/4	2,773.84	1/4	3,162.03	1/4	3,550.23
1/2	80.00	1/2	469.54	1/2	857.60	1/2	1,231.84	1/2	1,617.28	1/2	2,005.50	1/2	2,393.72	1/2	2,781.92	1/2	3,170.12	1/2	3,558.31
3/4	87.41	3/4	477.63	3/4	865.68	3/4	1,239.58	3/4	1,625.37	3/4	2,013.59	3/4	2,401.81	3/4	2,790.01	3/4	3,178.21	3/4	3,566.40
1	94.83	1	485.71	1	873.78	1	1,247.32	1	1,633.46	1	2,021.81	1	2,409.90	1	2,798.10	1	3,186.29	1	3,574.49
1/4	102.24	1/4	493.80	1/4	881.84	1/4	1,255.06	1/4	1,641.55	1/4	2,029.77	1/4	2,417.99	1/4	2,806.19	1/4	3,194.38	1/4	3,582.58
1/2	109.65	1/2	501.89	1/2	889.92	1/2	1,262.81	1/2	1,649.64	1/2	2,037.85	1/2	2,426.07	1/2	2,814.27	1/2	3,202.47	1/2	3,590.67
3/4	117.06	3/4	509.98	3/4	898.00	3/4	1,270.55	3/4	1,657.72	3/4	2,045.94	3/4	2,434.16	3/4	2,822.36	3/4	3,210.56	3/4	3,598.76
1	124.47	1	518.06	1	906.08	1	1,278.29	1	1,665.81	1	2,054.03	1	2,442.25	1	2,830.45	1	3,218.64	1	3,606.85
1/4	131.88	1/4	526.15	1/4	913.99	1/4	1,286.20	1/4	1,673.90	1/4	2,062.12	1/4	2,450.34	1/4	2,838.54	1/4	3,226.73	1/4	3,614.93
1/2	139.29	1/2	534.24	1/2	921.89	1/2	1,294.12	1/2	1,681.99	1/2	2,070.21	1/2	2,458.43	1/2	2,846.62	1/2	3,234.82	1/2	3,623.02
3/4	146.70	3/4	542.33	3/4	929.80	3/4	1,302.03	3/4	1,690.07	3/4	2,076.29	3/4	2,466.51	3/4	2,854.71	3/4	3,242.91	3/4	3,631.11
1	154.11	1	550.41	1	937.71	1	1,309.94	1	1,698.16	1	2,084.38	1	2,474.60	1	2,862.80	1	3,250.99	1	3,639.20
1/4	161.52	1/4	558.50	1/4	945.44	1/4	1,318.03	1/4	1,706.25	1/4	2,092.47	1/4	2,482.69	1/4	2,870.88	1/4	3,259.08	1/4	3,647.28
1/2	168.93	1/2	566.59	1/2	953.18	1/2	1,326.12	1/2	1,714.34	1/2	2,100.55	1/2	2,490.78	1/2	2,878.97	1/2	3,267.17	1/2	3,655.37
3/4	176.34	3/4	574.68	3/4	960.92	3/4	1,334.21	3/4	1,722.43	3/4	2,110.66	3/4	2,498.86	3/4	2,887.06	3/4	3,275.26	3/4	3,663.46
1	183.75	1	582.76	1	968.65	1	1,342.29	1	1,730.51	1	2,118.73	1	2,506.95	1	2,895.15	1	3,283.34	1	3,671.55
1/4	191.16	1/4	590.85	1/4	976.40	1/4	1,350.38	1/4	1,738.60	1/4	2,126.82	1/4	2,515.04	1/4	2,903.23	1/4	3,291.43	1/4	3,679.64
1/2	198.57	1/2	598.94	1/2	984.14	1/2	1,358.47	1/2	1,746.69	1/2	2,134.91	1/2	2,523.13	1/2	2,911.32	1/2	3,299.52	1/2	3,687.72
3/4	205.98	3/4	607.03	3/4	991.88	3/4	1,366.56	3/4	1,754.78	3/4	2,143.00	3/4	2,531.22	3/4	2,919.41	3/4	3,307.60	3/4	3,695.81
1	213.39	1	615.11	1	999.62	1	1,374.65	1	1,762.87	1	2,151.08	1	2,539.30	1	2,927.50	1	3,315.69	1	3,703.90
1/4	220.80	1/4	623.20	1/4	1,007.36	1/4	1,382.73	1/4	1,770.95	1/4	2,159.17	1/4	2,547.39	1/4	2,935.58	1/4	3,323.78	1/4	3,711.99
1/2	228.21	1/2	631.29	1/2	1,015.10	1/2	1,390.82	1/2	1,779.04	1/2	2,167.26	1/2	2,555.48	1/2	2,943.67	1/2	3,331.87	1/2	3,720.08
3/4	235.62	3/4	639.38	3/4	1,022.84	3/4	1,398.91	3/4	1,787.13	3/4	2,175.35	3/4	2,563.56	3/4	2,951.76	3/4	3,339.95	3/4	3,728.15
1	243.03	1	647.47	1	1,030.58	1	1,407.00	1	1,795.22	1	2,183.44	1	2,571.65	1	2,959.85	1	3,348.04	1	3,736.25
1/4	250.44	1/4	655.55	1/4	1,038.32	1/4	1,415.09	1/4	1,803.31	1/4	2,191.52	1/4	2,579.74	1/4	2,967.93	1/4	3,356.13	1/4	3,744.34
1/2	257.85	1/2	663.64	1/2	1,046.06	1/2	1,423.17	1/2	1,811.39	1/2	2,199.61	1/2	2,587.83	1/2	2,976.02	1/2	3,364.22	1/2	3,752.43
3/4	265.26	3/4	671.73	3/4	1,053.80	3/4	1,431.28	3/4	1,819.48	3/4	2,207.70	3/4	2,595.91	3/4	2,984.11	3/4	3,372.30	3/4	3,760.52
1	272.67	1	679.82	1	1,061.54	1	1,439.35	1	1,827.57	1	2,215.79	1	2,604.00	1	2,992.20	1	3,380.39	1	3,768.60
1/4	280.08	1/4	687.90	1/4	1,069.29	1/4	1,447.44	1/4	1,835.66	1/4	2,223.88	1/4	2,612.09	1/4	3,000.28	1/4	3,388.48	1/4	3,776.69
1/2	287.49	1/2	695.99	1/2	1,077.03	1/2	1,455.53	1/2	1,843.74	1/2	2,231.96	1/2	2,620.18	1/2	3,008.37	1/2	3,396.57	1/2	3,784.78
3/4	294.90	3/4	704.07	3/4	1,084.77	3/4	1,463.61	3/4	1,851.83	3/4	2,240.05	3/4	2,628.26	3/4	3,016.46	3/4	3,404.65	3/4	3,792.87
1	302.31	1	712.15	1	1,092.51	1	1,471.70	1	1,859.92	1	2,248.14	1	2,636.35	1	3,024.55	1	3,412.74	1	3,800.95
1/4	309.72	1/4	720.24	1/4	1,100.25	1/4	1,479.79	1/4	1,868.01	1/4	2,256.23	1/4	2,644.44	1/4	3,032.63	1/4	3,420.83	1/4	3,809.04
1/2	317.13	1/2	728.32	1/2	1,107.99	1/2	1,487.88	1/2	1,876.10	1/2	2,264.32	1/2	2,652.52	1/2	3,040.72	1/2	3,428.92	1/2	3,817.13
3/4	324.54	3/4	736.40	3/4	1,115.73	3/4	1,495.97	3/4	1,884.18	3/4	2,272.40	3/4	2,660.61	3/4	3,048.81	3/4	3,437.00	3/4	3,825.22
1	331.95	1	744.48	1	1,123.47	1	1,504.05	1	1,892.27	1	2,280.49	1	2,668.70	1	3,056.89	1	3,445.09	1	3,833.31
1/4	339.36	1/4	752.56	1/4	1,131.21	1/4	1,512.14	1/4	1,900.36	1/4	2,288.58	1/4	2,676.79	1/4	3,064.98	1/4	3,453.18	1/4	3,841.39
1/2	346.77	1/2	760.64	1/2	1,138.95	1/2	1,520.23	1/2	1,908.45	1/2	2,296.67	1/2	2,684.87	1/2	3,073.07	1/2	3,461.26	1/2	3,849.48
3/4	354.18	3/4	768.72	3/4	1,146.69	3/4	1,528.32	3/4	1,916.54	3/4	2,304.76	3/4	2,692.96	3/4	3,081.16	3/4	3,469.35	3/4	3,857.57

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 INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082

Portland, Texas 77068
<http://www.pmacorp.net>



BARGE "EMS 502"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 16'-05"											
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	3,865.66	0	4,253.88	0	4,638.89	0	4,995.00	0	5,325.90	0	5,629.61	0		0		0							
1/4	3,873.75	1/4	4,261.97	1/4	4,646.61	1/4	5,002.15	1/4	5,332.49	1/4	5,635.54	1/4		1/4		1/4							
1/2	3,881.83	1/2	4,270.05	1/2	4,655.33	1/2	5,009.30	1/2	5,339.09	1/2	5,642.80	1/2		1/2		1/2							
3/4	3,889.92	3/4	4,278.14	3/4	4,660.05	3/4	5,016.44	3/4	5,345.68	3/4	5,647.40	3/4		3/4		3/4							
1	3,898.01	1	4,286.23	1	4,667.77	1	5,023.59	1	5,352.28	1	5,653.33	1		1		1							
1/4	3,906.10	1/4	4,294.32	1/4	4,675.45	1/4	5,030.69	1/4	5,359.83	1/4	5,660.26	1/4		1/4		1/4							
1/2	3,914.19	1/2	4,302.40	1/2	4,683.12	1/2	5,037.79	1/2	5,366.38	1/2	5,667.19	1/2		1/2		1/2							
3/4	3,922.27	3/4	4,310.49	3/4	4,690.79	3/4	5,044.89	3/4	5,371.92	3/4	5,674.12	3/4		3/4		3/4							
2	3,930.36	2	4,318.58	2	4,698.47	2	5,051.99	2	5,378.47	2	5,681.05	2		2		2							
1/4	3,938.45	1/4	4,326.67	1/4	4,706.10	1/4	5,059.05	1/4	5,384.98	1/4	5,689.00	1/4		1/4		1/4							
1/2	3,946.54	1/2	4,334.76	1/2	4,713.72	1/2	5,066.10	1/2	5,391.48	1/2	5,696.96	1/2		1/2		1/2							
3/4	3,954.62	3/4	4,342.84	3/4	4,721.35	3/4	5,073.16	3/4	5,397.98	3/4	5,704.91	3/4		3/4		3/4							
3	3,962.71	3	4,350.93	3	4,728.98	3	5,080.21	3	5,404.48	3	5,712.86	3		3		3							
1/4	3,970.80	1/4	4,359.02	1/4	4,736.56	1/4	5,087.22	1/4	5,410.94	1/4	5,720.82	1/4		1/4		1/4							
1/2	3,978.89	1/2	4,367.11	1/2	4,744.14	1/2	5,094.23	1/2	5,417.40	1/2	5,728.77	1/2		1/2		1/2							
3/4	3,986.98	3/4	4,375.20	3/4	4,751.72	3/4	5,101.24	3/4	5,423.85	3/4	5,736.73	3/4		3/4		3/4							
4	3,995.06	4	4,383.28	4	4,759.31	4	5,108.25	4	5,430.31	4	5,744.68	4		4		4							
1/4	4,003.15	1/4	4,391.36	1/4	4,766.84	1/4	5,115.21	1/4	5,436.72	1/4	5,752.13	1/4		1/4		1/4							
1/2	4,011.24	1/2	4,399.44	1/2	4,774.38	1/2	5,122.17	1/2	5,443.13	1/2	5,759.57	1/2		1/2		1/2							
3/4	4,019.33	3/4	4,407.51	3/4	4,781.91	3/4	5,129.14	3/4	5,449.54	3/4	5,767.02	3/4		3/4		3/4							
5	4,027.42	5	4,415.59	5	4,789.45	5	5,136.10	5	5,455.95	5	5,774.47	5		5		5							
1/4	4,035.50	1/4	4,423.63	1/4	4,796.94	1/4	5,143.01	1/4	5,462.32	1/4		1/4		1/4		1/4							
1/2	4,043.59	1/2	4,431.67	1/2	4,804.43	1/2	5,149.93	1/2	5,468.68	1/2		1/2		1/2		1/2							
3/4	4,051.68	3/4	4,439.71	3/4	4,811.92	3/4	5,156.85	3/4	5,475.04	3/4		3/4		3/4		3/4							
6	4,059.77	6	4,447.75	6	4,819.41	6	5,163.76	6	5,481.41	6		6		6		6							
1/4	4,067.86	1/4	4,455.75	1/4	4,826.85	1/4	5,170.64	1/4	5,487.73	1/4		1/4		1/4		1/4							
1/2	4,075.94	1/2	4,463.75	1/2	4,834.30	1/2	5,177.51	1/2	5,494.05	1/2		1/2		1/2		1/2							
3/4	4,084.03	3/4	4,471.74	3/4	4,841.74	3/4	5,184.38	3/4	5,500.37	3/4		3/4		3/4		3/4							
7	4,092.12	7	4,479.74	7	4,849.18	7	5,191.25	7	5,506.68	7		7		7		7							
1/4	4,100.21	1/4	4,487.83	1/4	4,856.58	1/4	5,198.07	1/4	5,512.96	1/4		1/4		1/4		1/4							
1/2	4,108.30	1/2	4,495.92	1/2	4,863.98	1/2	5,204.90	1/2	5,519.23	1/2		1/2		1/2		1/2							
3/4	4,116.38	3/4	4,503.99	3/4	4,871.38	3/4	5,211.72	3/4	5,525.50	3/4		3/4		3/4		3/4							
8	4,124.47	8	4,511.54	8	4,878.77	8	5,218.55	8	5,531.77	8		8		8		8							
1/4	4,132.56	1/4	4,519.44	1/4	4,886.12	1/4	5,225.32	1/4	5,538.00	1/4		1/4		1/4		1/4							
1/2	4,140.65	1/2	4,527.34	1/2	4,893.46	1/2	5,232.10	1/2	5,544.23	1/2		1/2		1/2		1/2							
3/4	4,148.73	3/4	4,535.25	3/4	4,900.80	3/4	5,238.88	3/4	5,550.45	3/4		3/4		3/4		3/4							
9	4,156.82	9	4,543.15	9	4,908.14	9	5,245.66	9	5,556.68	9		9		9		9							
1/4	4,164.91	1/4	4,551.01	1/4	4,915.42	1/4	5,252.39	1/4	5,562.86	1/4		1/4		1/4		1/4							
1/2	4,173.00	1/2	4,558.87	1/2	4,922.71	1/2	5,259.13	1/2	5,569.04	1/2		1/2		1/2		1/2							
3/4	4,181.09	3/4	4,566.73	3/4	4,928.99	3/4	5,265.86	3/4	5,576.22	3/4		3/4		3/4		3/4							
10	4,189.17	10	4,574.58	10	4,937.28	10	5,272.59	10	5,581.40	10		10		10		10							
1/4	4,197.26	1/4	4,582.40	1/4	4,944.52	1/4	5,279.28	1/4	5,587.48	1/4		1/4		1/4		1/4							
1/2	4,205.35	1/2	4,590.21	1/2	4,951.76	1/2	5,285.96	1/2	5,593.56	1/2		1/2		1/2		1/2							
3/4	4,213.44	3/4	4,598.02	3/4	4,958.99	3/4	5,292.65	3/4	5,599.64	3/4		3/4		3/4		3/4							
11	4,221.53	11	4,605.83	11	4,966.23	11	5,299.34	11	5,605.71	11		11		11		11							
1/4	4,229.61	1/4	4,613.60	1/4	4,973.43	1/4	5,305.98	1/4	5,611.89	1/4		1/4		1/4		1/4							
1/2	4,237.70	1/2	4,621.36	1/2	4,980.62	1/2	5,312.62	1/2	5,617.66	1/2		1/2		1/2		1/2							
3/4	4,245.79	3/4	4,628.13	3/4	4,987.81	3/4	5,318.25	3/4	5,623.64	3/4		3/4		3/4		3/4							



BARGE "EMS 502"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	12.98	0	360.98	0	721.30	0	1081.37	0	1441.91	0	1802.44	0	2162.98	0	2523.49	0	2883.83	0	3244.18
1/4	17.98	1/4	368.50	1/4	728.79	1/4	1088.88	1/4	1449.42	1/4	1809.96	1/4	2170.49	1/4	2531.02	1/4	2891.54	1/4	3252.07
1/2	22.98	1/2	376.01	1/2	736.28	1/2	1098.39	1/2	1458.93	1/2	1819.47	1/2	2180.00	1/2	2540.52	1/2	2901.04	1/2	3261.57
3/4	28.00	3/4	383.52	3/4	743.77	3/4	1103.90	3/4	1464.44	3/4	1824.98	3/4	2185.52	3/4	2546.05	3/4	2906.57	3/4	3267.10
1	33.00	1	391.03	1	751.26	1	1111.41	1	1471.95	1	1832.49	1	2193.03	1	2553.56	1	2914.08	1	3274.61
1/4	39.89	1/4	398.54	1/4	758.75	1/4	1118.93	1/4	1479.46	1/4	1840.00	1/4	2200.54	1/4	2561.07	1/4	2921.59	1/4	3282.12
1/2	46.77	1/2	406.05	1/2	766.24	1/2	1126.44	1/2	1486.97	1/2	1847.51	1/2	2208.05	1/2	2568.58	1/2	2929.10	1/2	3288.64
3/4	53.66	3/4	413.56	3/4	773.73	3/4	1133.95	3/4	1494.49	3/4	1855.02	3/4	2215.56	3/4	2576.09	3/4	2936.61	3/4	3296.17
2	60.54	2	421.07	2	781.22	2	1141.46	2	1502.00	2	1863.53	2	2223.07	2	2583.60	2	2944.12	2	3303.68
1/4	68.06	1/4	428.58	1/4	788.71	1/4	1148.97	1/4	1509.51	1/4	1870.04	1/4	2230.58	1/4	2591.11	1/4	2951.63	1/4	3311.19
1/2	75.67	1/2	436.09	1/2	796.20	1/2	1156.48	1/2	1517.02	1/2	1877.56	1/2	2238.09	1/2	2598.62	1/2	2958.64	1/2	3318.70
3/4	83.03	3/4	443.61	3/4	803.69	3/4	1163.98	3/4	1524.53	3/4	1885.07	3/4	2245.60	3/4	2605.15	3/4	2965.67	3/4	3326.21
3	90.89	3	451.12	3	811.18	3	1171.50	3	1532.04	3	1892.58	3	2253.12	3	2613.67	3	2973.19	3	3333.72
1/4	98.10	1/4	458.63	1/4	818.67	1/4	1179.01	1/4	1539.55	1/4	1900.09	1/4	2260.63	1/4	2621.18	1/4	2980.70	1/4	3341.23
1/2	105.61	1/2	466.14	1/2	826.16	1/2	1186.53	1/2	1547.06	1/2	1907.60	1/2	2268.14	1/2	2628.64	1/2	2987.71	1/2	3348.74
3/4	113.12	3/4	473.65	3/4	833.65	3/4	1194.04	3/4	1554.57	3/4	1915.11	3/4	2275.65	3/4	2635.74	3/4	2994.72	3/4	3356.25
4	120.63	4	481.16	4	841.14	4	1201.55	4	1562.09	4	1922.62	4	2283.16	4	2643.21	4	3001.73	4	3363.76
1/4	128.14	1/4	488.67	1/4	848.63	1/4	1209.06	1/4	1569.60	1/4	1930.13	1/4	2290.67	1/4	2650.72	1/4	3008.74	1/4	3371.27
1/2	135.65	1/2	496.18	1/2	856.12	1/2	1216.57	1/2	1577.11	1/2	1937.61	1/2	2298.18	1/2	2658.23	1/2	3015.75	1/2	3378.78
3/4	143.17	3/4	503.69	3/4	863.61	3/4	1224.08	3/4	1584.62	3/4	1945.16	3/4	2305.69	3/4	2665.74	3/4	3022.76	3/4	3386.29
5	150.68	5	511.20	5	871.10	5	1231.59	5	1592.13	5	1952.67	5	2313.21	5	2673.25	5	3029.77	5	3393.80
1/4	158.19	1/4	518.72	1/4	878.60	1/4	1239.10	1/4	1599.64	1/4	1960.18	1/4	2320.72	1/4	2680.76	1/4	3036.78	1/4	3401.31
1/2	165.70	1/2	526.23	1/2	886.10	1/2	1246.62	1/2	1607.15	1/2	1967.69	1/2	2328.23	1/2	2688.27	1/2	3043.79	1/2	3408.82
3/4	173.21	3/4	533.74	3/4	893.60	3/4	1254.13	3/4	1614.66	3/4	1975.20	3/4	2335.74	3/4	2695.78	3/4	3050.80	3/4	3416.33
6	180.72	6	541.25	6	901.10	6	1261.64	6	1622.18	6	1982.71	6	2343.25	6	2703.29	6	3057.81	6	3423.84
1/4	188.23	1/4	548.76	1/4	908.61	1/4	1269.15	1/4	1629.69	1/4	1990.22	1/4	2350.76	1/4	2710.80	1/4	3064.82	1/4	3431.35
1/2	195.74	1/2	556.27	1/2	916.12	1/2	1276.66	1/2	1637.20	1/2	1997.74	1/2	2358.27	1/2	2718.31	1/2	3071.83	1/2	3438.86
3/4	203.25	3/4	563.78	3/4	923.63	3/4	1284.17	3/4	1644.71	3/4	2005.25	3/4	2365.78	3/4	2725.82	3/4	3078.84	3/4	3446.37
7	210.76	7	571.29	7	931.15	7	1291.68	7	1652.22	7	2012.76	7	2373.30	7	2733.34	7	3085.85	7	3453.88
1/4	218.28	1/4	578.80	1/4	938.66	1/4	1299.19	1/4	1659.73	1/4	2020.27	1/4	2380.81	1/4	2740.85	1/4	3092.86	1/4	3461.39
1/2	225.79	1/2	586.31	1/2	946.17	1/2	1306.71	1/2	1667.24	1/2	2027.78	1/2	2388.32	1/2	2748.36	1/2	3100.87	1/2	3468.90
3/4	233.30	3/4	593.83	3/4	953.68	3/4	1314.22	3/4	1674.75	3/4	2035.29	3/4	2395.83	3/4	2755.87	3/4	3107.88	3/4	3476.41
8	240.81	8	601.34	8	961.19	8	1321.73	8	1682.26	8	2042.80	8	2403.33	8	2763.38	8	3114.89	8	3483.92
1/4	248.32	1/4	608.85	1/4	968.70	1/4	1329.24	1/4	1689.78	1/4	2050.31	1/4	2410.85	1/4	2770.89	1/4	3121.90	1/4	3491.43
1/2	255.83	1/2	616.36	1/2	976.21	1/2	1336.75	1/2	1697.29	1/2	2057.82	1/2	2418.36	1/2	2778.40	1/2	3128.91	1/2	3498.94
3/4	263.34	3/4	623.87	3/4	983.72	3/4	1344.26	3/4	1704.80	3/4	2065.34	3/4	2425.87	3/4	2785.91	3/4	3135.92	3/4	3506.45
9	270.85	9	631.38	9	991.23	9	1351.77	9	1712.31	9	2072.85	9	2433.38	9	2793.42	9	3142.93	9	3513.96
1/4	278.36	1/4	638.89	1/4	998.75	1/4	1359.28	1/4	1719.82	1/4	2080.36	1/4	2440.89	1/4	2800.93	1/4	3149.94	1/4	3521.47
1/2	285.87	1/2	646.40	1/2	1006.26	1/2	1366.79	1/2	1727.33	1/2	2087.87	1/2	2448.40	1/2	2808.44	1/2	3156.95	1/2	3528.98
3/4	293.39	3/4	653.91	3/4	1013.77	3/4	1374.31	3/4	1734.84	3/4	2095.38	3/4	2455.91	3/4	2815.95	3/4	3163.96	3/4	3536.49
10	300.90	10	661.42	10	1021.28	10	1381.82	10	1742.35	10	2102.90	10	2463.42	10	2823.47	10	3170.97	10	3544.00
1/4	308.41	1/4	668.93	1/4	1028.79	1/4	1389.33	1/4	1749.87	1/4	2110.41	1/4	2470.93	1/4	2830.98	1/4	3177.98	1/4	3551.51
1/2	315.92	1/2	676.44	1/2	1036.30	1/2	1396.84	1/2	1757.38	1/2	2117.92	1/2	2478.44	1/2	2838.49	1/2	3184.99	1/2	3559.02
3/4	323.43	3/4	683.95	3/4	1043.81	3/4	1404.35	3/4	1764.89	3/4	2125.43	3/4	2485.95	3/4	2846.00	3/4	3192.00	3/4	3566.53
11	330.94	11	691.44	11	1051.32	11	1411.86	11	1772.40	11	2132.94	11	2493.46	11	2853.50	11	3199.01	11	3574.04
1/4	338.45	1/4	698.95	1/4	1058.84	1/4	1419.37	1/4	1779.91	1/4	2140.45	1/4	2500.96	1/4	2861.01	1/4	3206.02	1/4	3581.55
1/2	345.96	1/2	706.46	1/2	1066.35	1/2	1426.88	1/2	1787.42	1/2	2147.96	1/2	2508.47	1/2	2868.52	1/2	3213.03	1/2	3589.06
3/4	353.47	3/4	713.97	3/4	1073.86	3/4	1434.40	3/4	1794.93	3/4	2155.47	3/4	2515.98	3/4	2876.03	3/4	3220.04	3/4	3596.57

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 27.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082

Pearland, Texas 77588

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BARGE "EMS 502"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		GAUGE HEIGHT 16'-05 3/4"	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	3,603.73	0	3,900.25	0	4,189.21	0	4,454.37	0	4,695.47	0	4,910.62	0		0		0		0	
1/4	3,610.53	1/4	3,906.37	1/4	4,194.98	1/4	4,460.22	1/4	4,700.21	1/4	4,914.73	1/4		1/4		1/4		1/4	
1/2	3,617.33	1/2	3,912.49	1/2	4,200.76	1/2	4,466.47	1/2	4,704.94	1/2	4,918.84	1/2		1/2		1/2		1/2	
3/4	3,624.13	3/4	3,918.61	3/4	4,206.54	3/4	4,470.71	3/4	4,709.67	3/4	4,922.95	3/4		3/4		3/4		3/4	
1	3,630.93	1	3,924.73	1	4,212.32	1	4,475.96	1	4,714.40	1	4,927.06	1		1		1		1	
1/4	3,637.05	1/4	3,930.85	1/4	4,218.05	1/4	4,481.16	1/4	4,719.09	1/4	4,932.11	1/4		1/4		1/4		1/4	
1/2	3,643.17	1/2	3,936.97	1/2	4,223.79	1/2	4,486.37	1/2	4,723.78	1/2	4,937.15	1/2		1/2		1/2		1/2	
3/4	3,649.29	3/4	3,943.09	3/4	4,229.52	3/4	4,491.57	3/4	4,728.47	3/4	4,942.19	3/4		3/4		3/4		3/4	
2	3,655.41	2	3,949.21	2	4,235.25	2	4,496.77	2	4,733.15	2	4,947.24	2		2		2		2	
1/4	3,661.53	1/4	3,955.34	1/4	4,240.95	1/4	4,501.94	1/4	4,737.80	1/4	4,953.24	1/4		1/4		1/4		1/4	
1/2	3,667.65	1/2	3,961.46	1/2	4,246.64	1/2	4,507.10	1/2	4,742.45	1/2	4,959.24	1/2		1/2		1/2		1/2	
3/4	3,673.77	3/4	3,967.58	3/4	4,252.33	3/4	4,512.26	3/4	4,747.09	3/4	4,965.24	3/4		3/4		3/4		3/4	
3	3,679.90	3	3,973.70	3	4,258.02	3	4,517.42	3	4,751.74	3	4,971.24	3		3		3		3	
1/4	3,686.02	1/4	3,979.82	1/4	4,263.67	1/4	4,522.53	1/4	4,756.34	1/4	4,977.23	1/4		1/4		1/4		1/4	
1/2	3,692.14	1/2	3,985.94	1/2	4,269.32	1/2	4,527.65	1/2	4,760.94	1/2	4,983.23	1/2		1/2		1/2		1/2	
3/4	3,698.26	3/4	3,992.06	3/4	4,274.97	3/4	4,532.77	3/4	4,765.54	3/4	4,989.23	3/4		3/4		3/4		3/4	
4	3,704.38	4	3,998.18	4	4,280.62	4	4,537.89	4	4,770.15	4	4,995.23	4		4		4		4	
1/4	3,710.50	1/4	4,004.29	1/4	4,286.22	1/4	4,542.96	1/4	4,774.71	1/4	5,000.76	1/4		1/4		1/4		1/4	
1/2	3,716.62	1/2	4,010.40	1/2	4,291.83	1/2	4,548.04	1/2	4,779.27	1/2	5,006.29	1/2		1/2		1/2		1/2	
3/4	3,722.74	3/4	4,016.51	3/4	4,297.43	3/4	4,553.11	3/4	4,783.83	3/4	5,011.82	3/4		3/4		3/4		3/4	
5	3,728.86	5	4,022.63	5	4,303.04	5	4,558.19	5	4,788.39	5	5,017.36	5		5		5		5	
1/4	3,734.98	1/4	4,028.70	1/4	4,308.60	1/4	4,563.22	1/4	4,792.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,741.10	1/2	4,034.78	1/2	4,314.17	1/2	4,568.25	1/2	4,797.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,747.23	3/4	4,040.86	3/4	4,319.73	3/4	4,573.28	3/4	4,801.94	3/4		3/4		3/4		3/4		3/4	
6	3,753.35	6	4,046.94	6	4,325.29	6	4,578.31	6	4,806.45	6		6		6		6		6	
1/4	3,759.47	1/4	4,052.97	1/4	4,330.81	1/4	4,583.30	1/4	4,810.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,765.59	1/2	4,059.01	1/2	4,336.33	1/2	4,588.28	1/2	4,815.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,771.71	3/4	4,065.04	3/4	4,341.85	3/4	4,593.28	3/4	4,819.88	3/4		3/4		3/4		3/4		3/4	
7	3,777.83	7	4,071.08	7	4,347.37	7	4,598.27	7	4,824.35	7		7		7		7		7	
1/4	3,783.95	1/4	4,077.07	1/4	4,352.85	1/4	4,603.22	1/4	4,828.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.07	1/2	4,083.06	1/2	4,358.33	1/2	4,608.16	1/2	4,833.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,796.19	3/4	4,089.06	3/4	4,363.80	3/4	4,613.11	3/4	4,837.64	3/4		3/4		3/4		3/4		3/4	
8	3,802.31	8	4,095.05	8	4,369.28	8	4,618.05	8	4,842.07	8		8		8		8		8	
1/4	3,808.43	1/4	4,101.00	1/4	4,374.71	1/4	4,622.96	1/4	4,846.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,814.56	1/2	4,106.95	1/2	4,380.13	1/2	4,627.86	1/2	4,850.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,820.68	3/4	4,112.90	3/4	4,385.56	3/4	4,632.76	3/4	4,855.24	3/4		3/4		3/4		3/4		3/4	
9	3,826.80	9	4,118.84	9	4,390.99	9	4,637.67	9	4,859.63	9		9		9		9		9	
1/4	3,832.92	1/4	4,124.75	1/4	4,396.36	1/4	4,642.53	1/4	4,863.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,839.04	1/2	4,130.66	1/2	4,401.74	1/2	4,647.39	1/2	4,868.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,845.16	3/4	4,136.56	3/4	4,407.11	3/4	4,652.25	3/4	4,872.66	3/4		3/4		3/4		3/4		3/4	
10	3,851.28	10	4,142.47	10	4,412.49	10	4,657.11	10	4,877.01	10		10		10		10		10	
1/4	3,857.40	1/4	4,148.33	1/4	4,417.82	1/4	4,661.93	1/4	4,881.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,863.52	1/2	4,154.20	1/2	4,423.15	1/2	4,666.74	1/2	4,885.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,869.64	3/4	4,160.06	3/4	4,428.48	3/4	4,671.56	3/4	4,889.75	3/4		3/4		3/4		3/4		3/4	
11	3,875.76	11	4,165.92	11	4,433.82	11	4,676.38	11	4,894.00	11		11		11		11		11	
1/4	3,881.89	1/4	4,171.74	1/4	4,439.11	1/4	4,681.15	1/4	4,898.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,888.01	1/2	4,177.66	1/2	4,444.40	1/2	4,686.93	1/2	4,902.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,894.13	3/4	4,183.39	3/4	4,449.68	3/4	4,690.70	3/4	4,906.47	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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



BARGE "EMS 502"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 U.S. GALLONS												GAUGE HEIGHT 16'-04 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	13.06	0	362.96	0	725.03	0	1077.08	0	1433.47	0	1795.54	0	2154.87	0	2516.79	0	2878.52	0	3240.48				
1/4	15.10	1/4	370.51	1/4	732.56	1/4	1084.30	1/4	1441.02	1/4	1803.05	1/4	2162.39	1/4	2524.32	1/4	2886.06	1/4	3248.02				
1/2	23.14	1/2	378.06	1/2	740.09	1/2	1091.52	1/2	1448.66	1/2	1810.56	1/2	2169.90	1/2	2531.85	1/2	2893.50	1/2	3255.56				
3/4	28.17	3/4	385.60	3/4	747.61	3/4	1098.74	3/4	1456.10	3/4	1818.08	3/4	2177.42	3/4	2539.38	3/4	2901.14	3/4	3263.10				
1	33.21	1	393.15	1	755.14	1	1105.96	1	1463.65	1	1825.59	1	2187.43	1	2549.38	1	2911.14	1	3273.00				
1/4	40.14	1/4	400.70	1/4	762.67	1/4	1113.19	1/4	1471.19	1/4	1833.07	1/4	2194.91	1/4	2556.76	1/4	2918.52	1/4	3280.38				
1/2	47.07	1/2	408.25	1/2	770.19	1/2	1120.42	1/2	1478.73	1/2	1840.56	1/2	2202.30	1/2	2564.15	1/2	2925.76	1/2	3287.18				
3/4	54.00	3/4	416.79	3/4	777.72	3/4	1127.64	3/4	1486.28	3/4	1850.04	3/4	2211.87	3/4	2573.46	3/4	2934.99	3/4	3293.26				
2	60.93	2	423.34	2	785.25	2	1134.87	2	1493.32	2	1855.52	2	2217.67	2	2579.26	2	2940.84	2	3300.80				
1/4	68.49	1/4	430.89	1/4	792.77	1/4	1142.10	1/4	1501.36	1/4	1863.01	1/4	2226.67	1/4	2588.26	1/4	2949.61	1/4	3311.88				
1/2	76.05	1/2	438.44	1/2	800.30	1/2	1149.33	1/2	1508.90	1/2	1870.49	1/2	2239.80	1/2	2601.05	1/2	2960.47	1/2	3322.96				
3/4	83.61	3/4	446.98	3/4	807.83	3/4	1156.86	3/4	1516.45	3/4	1877.98	3/4	2250.13	3/4	2612.28	3/4	2971.14	3/4	3333.97				
3	91.17	3	455.53	3	815.35	3	1165.80	3	1523.99	3	1885.46	3	2261.33	3	2622.58	3	2981.61	3	3344.98				
1/4	98.73	1/4	463.08	1/4	822.88	1/4	1171.03	1/4	1531.53	1/4	1892.84	1/4	2271.67	1/4	2632.92	1/4	2991.69	1/4	3355.99				
1/2	106.29	1/2	468.63	1/2	830.41	1/2	1178.26	1/2	1539.08	1/2	1900.43	1/2	2281.77	1/2	2643.05	1/2	3001.76	1/2	3366.99				
3/4	113.85	3/4	476.17	3/4	837.93	3/4	1186.49	3/4	1546.62	3/4	1907.91	3/4	2292.86	3/4	2653.12	3/4	3011.81	3/4	3377.99				
4	121.41	4	483.72	4	845.46	4	1192.72	4	1554.16	4	1915.39	4	2303.95	4	2664.02	4	3021.86	4	3388.99				
1/4	128.96	1/4	491.27	1/4	852.83	1/4	1200.11	1/4	1561.71	1/4	1922.88	1/4	2315.04	1/4	2675.11	1/4	3031.91	1/4	3399.99				
1/2	136.52	1/2	498.82	1/2	860.20	1/2	1207.50	1/2	1569.25	1/2	1930.36	1/2	2326.17	1/2	2686.20	1/2	3041.96	1/2	3410.99				
3/4	144.08	3/4	506.36	3/4	867.57	3/4	1214.88	3/4	1575.79	3/4	1937.85	3/4	2337.30	3/4	2697.33	3/4	3051.96	3/4	3421.99				
5	151.53	5	513.91	5	874.94	5	1222.27	5	1584.33	5	1945.33	5	2348.41	5	2708.48	5	3061.01	5	3432.99				
1/4	159.18	1/4	521.46	1/4	882.15	1/4	1229.81	1/4	1591.88	1/4	1956.81	1/4	2359.54	1/4	2719.61	1/4	3071.06	1/4	3443.99				
1/2	166.73	1/2	529.01	1/2	889.37	1/2	1237.36	1/2	1599.42	1/2	1968.30	1/2	2370.67	1/2	2730.70	1/2	3081.07	1/2	3454.99				
3/4	174.28	3/4	536.55	3/4	896.58	3/4	1244.90	3/4	1606.96	3/4	1979.78	3/4	2381.77	3/4	2741.73	3/4	3091.08	3/4	3465.99				
6	181.83	6	544.10	6	903.80	6	1252.44	6	1614.51	6	1989.26	6	2392.86	6	2751.76	6	3101.09	6	3476.99				
1/4	189.38	1/4	551.65	1/4	911.02	1/4	1259.99	1/4	1622.05	1/4	1998.75	1/4	2403.95	1/4	2761.81	1/4	3111.10	1/4	3487.99				
1/2	196.92	1/2	559.20	1/2	918.24	1/2	1267.53	1/2	1629.69	1/2	2009.23	1/2	2415.04	1/2	2771.86	1/2	3121.11	1/2	3498.99				
3/4	204.47	3/4	566.74	3/4	925.46	3/4	1275.07	3/4	1637.14	3/4	2019.72	3/4	2426.17	3/4	2781.91	3/4	3131.12	3/4	3509.99				
7	212.02	7	574.29	7	932.68	7	1282.61	7	1644.68	7	2030.20	7	2436.33	7	2792.44	7	3141.13	7	3511.13				
1/4	219.56	1/4	581.84	1/4	939.90	1/4	1290.16	1/4	1652.22	1/4	2041.68	1/4	2447.81	1/4	2803.92	1/4	3151.14	1/4	3521.14				
1/2	227.11	1/2	589.39	1/2	947.12	1/2	1297.70	1/2	1659.76	1/2	2052.17	1/2	2458.84	1/2	2814.95	1/2	3161.15	1/2	3531.15				
3/4	234.66	3/4	596.93	3/4	954.34	3/4	1305.24	3/4	1667.31	3/4	2064.25	3/4	2469.96	3/4	2826.07	3/4	3171.16	3/4	3541.16				
8	242.20	8	604.48	8	961.56	8	1312.79	8	1674.85	8	2075.13	8	2481.20	8	2837.31	8	3181.17	8	3551.17				
1/4	249.75	1/4	612.03	1/4	968.78	1/4	1320.33	1/4	1682.39	1/4	2087.56	1/4	2492.63	1/4	2848.74	1/4	3191.18	1/4	3561.18				
1/2	257.30	1/2	619.58	1/2	976.00	1/2	1327.87	1/2	1689.94	1/2	2098.00	1/2	2503.07	1/2	2859.18	1/2	3201.19	1/2	3571.19				
3/4	264.84	3/4	627.12	3/4	983.22	3/4	1335.42	3/4	1697.48	3/4	2108.00	3/4	2513.07	3/4	2869.19	3/4	3211.20	3/4	3581.20				
9	272.39	9	634.67	9	990.44	9	1342.96	9	1705.02	9	2118.00	9	2522.97	9	2878.18	9	3221.21	9	3591.21				
1/4	279.94	1/4	642.21	1/4	997.86	1/4	1350.50	1/4	1712.57	1/4	2128.00	1/4	2532.97	1/4	2888.19	1/4	3231.22	1/4	3601.22				
1/2	287.49	1/2	649.75	1/2	1004.88	1/2	1358.04	1/2	1720.11	1/2	2138.00	1/2	2542.97	1/2	2898.19	1/2	3241.23	1/2	3611.23				
3/4	295.03	3/4	657.28	3/4	1012.10	3/4	1365.59	3/4	1727.65	3/4	2148.00	3/4	2552.97	3/4	2908.19	3/4	3251.24	3/4	3621.24				
10	302.58	10	664.82	10	1019.32	10	1373.13	10	1735.19	10	2158.00	10	2562.97	10	2918.19	10	3261.25	10	3631.25				
1/4	310.13	1/4	672.35	1/4	1026.54	1/4	1380.67	1/4	1742.74	1/4	2168.00	1/4	2572.97	1/4	2928.19	1/4	3271.26	1/4	3641.26				
1/2	317.68	1/2	679.87	1/2	1033.76	1/2	1388.22	1/2	1750.28	1/2	2178.00	1/2	2582.97	1/2	2938.19	1/2	3281.27	1/2	3651.27				
3/4	325.22	3/4	687.40	3/4	1040.98	3/4	1395.76	3/4	1757.82	3/4	2188.00	3/4	2592.97	3/4	2948.19	3/4	3291.28	3/4	3661.28				
11	332.77	11	694.93	11	1048.20	11	1403.30	11	1765.37	11	2198.00	11	2602.97	11	2958.19	11	3301.29	11	3671.29				
1/4	340.32	1/4	702.45	1/4	1055.42	1/4	1410.85	1/4	1772.91	1/4	2208.00	1/4	2612.97	1/4	2968.19	1/4	3311.30	1/4	3681.30				
1/2	347.87	1/2	709.98	1/2	1062.64	1/2	1418.39	1/2	1780.45	1/2	2218.00	1/2	2622.97	1/2	2978.19	1/2	3321.31	1/2	3691.31				
3/4	355.41	3/4	717.51	3/4	1069.86	3/4	1425.93	3/4	1788.00	3/4	2228.00	3/4	2632.97	3/4	2988.19	3/4	3331.32	3/4	3701.32				

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.1.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHTS OF TANK.
CAPACITY POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77583
http://www.pmacorp.net

[Signature]



BARGE "EMS 502"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 16'-04 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	3,601.73	0	3,900.57	0	4,191.85	0	4,459.94	0	4,702.76	0	4,920.23	0	5,112.46	0	5,280.34	0	5,424.86	0	5,547.03				
1/4	3,608.58	1/4	3,906.74	1/4	4,197.67	1/4	4,465.23	1/4	4,707.54	1/4	4,924.39	1/4	5,116.62	1/4	5,284.50	1/4	5,429.02	1/4	5,551.19				
1/2	3,615.43	1/2	3,912.91	1/2	4,203.50	1/2	4,472.32	1/2	4,713.17	1/2	4,930.62	1/2	5,118.85	1/2	5,286.73	1/2	5,431.25	1/2	5,553.42				
3/4	3,622.27	3/4	3,919.08	3/4	4,209.33	3/4	4,478.82	3/4	4,717.10	3/4	4,937.46	3/4	5,123.68	3/4	5,290.79	3/4	5,438.21	3/4	5,559.38				
1	3,629.12	1	3,925.25	1	4,215.15	1	4,481.12	1	4,721.88	1	4,936.86	1	5,129.09	1	5,296.20	1	5,445.63	1	5,566.22				
1 1/4	3,635.29	1 1/4	3,931.42	1 1/4	4,220.94	1 1/4	4,486.37	1 1/4	4,726.62	1 1/4	4,941.96	1 1/4	5,135.18	1 1/4	5,302.29	1 1/4	5,451.72	1 1/4	5,572.31				
1 1/2	3,641.46	1 1/2	3,937.59	1 1/2	4,226.72	1 1/2	4,491.62	1 1/2	4,731.35	1 1/2	4,947.05	1 1/2	5,143.27	1 1/2	5,310.38	1 1/2	5,460.82	1 1/2	5,581.41				
3/2	3,647.63	3/2	3,943.76	3/2	4,232.50	3/2	4,496.87	3/2	4,736.09	3/2	4,952.14	3/2	5,151.36	3/2	5,318.47	3/2	5,467.91	3/2	5,588.50				
2	3,653.80	2	3,949.92	2	4,238.28	2	4,502.13	2	4,740.83	2	4,957.24	2	5,157.46	2	5,324.57	2	5,474.01	2	5,594.60				
2 1/4	3,659.97	2 1/4	3,956.09	2 1/4	4,244.02	2 1/4	4,507.34	2 1/4	4,745.52	2 1/4	4,963.28	2 1/4	5,163.50	2 1/4	5,330.61	2 1/4	5,478.05	2 1/4	5,598.64				
2 1/2	3,666.14	2 1/2	3,962.26	2 1/2	4,249.77	2 1/2	4,512.54	2 1/2	4,750.22	2 1/2	4,969.33	2 1/2	5,171.55	2 1/2	5,338.66	2 1/2	5,484.10	2 1/2	5,604.69				
3/2	3,672.31	3/2	3,968.43	3/2	4,255.51	3/2	4,517.75	3/2	4,754.91	3/2	4,975.38	3/2	5,181.57	3/2	5,348.68	3/2	5,494.12	3/2	5,614.71				
3	3,678.48	3	3,974.60	3	4,261.25	3	4,522.96	3	4,759.60	3	4,981.43	3	5,187.65	3	5,354.96	3	5,500.40	3	5,620.99				
3 1/4	3,684.64	3 1/4	3,980.77	3 1/4	4,266.94	3 1/4	4,528.13	3 1/4	4,764.26	3 1/4	4,987.47	3 1/4	5,193.69	3 1/4	5,361.00	3 1/4	5,506.44	3 1/4	5,627.03				
3 1/2	3,690.81	3 1/2	3,986.94	3 1/2	4,272.64	3 1/2	4,533.29	3 1/2	4,768.91	3 1/2	4,993.52	3 1/2	5,200.74	3 1/2	5,368.05	3 1/2	5,513.49	3 1/2	5,634.08				
3/2	3,696.98	3/2	3,993.11	3/2	4,278.34	3/2	4,538.46	3/2	4,773.56	3/2	4,999.57	3/2	5,206.79	3/2	5,374.10	3/2	5,519.54	3/2	5,640.13				
4	3,703.15	4	3,999.28	4	4,284.03	4	4,543.63	4	4,778.21	4	5,005.62	4	5,212.84	4	5,380.15	4	5,525.59	4	5,646.18				
4 1/4	3,709.32	4 1/4	4,005.44	4 1/4	4,289.69	4 1/4	4,548.75	4 1/4	4,782.82	4 1/4	5,011.19	4 1/4	5,218.41	4 1/4	5,385.72	4 1/4	5,531.16	4 1/4	5,651.75				
4 1/2	3,715.49	4 1/2	4,011.60	4 1/2	4,295.34	4 1/2	4,553.87	4 1/2	4,787.42	4 1/2	5,016.77	4 1/2	5,224.00	4 1/2	5,391.31	4 1/2	5,536.75	4 1/2	5,657.34				
3/2	3,721.66	3/2	4,017.76	3/2	4,301.00	3/2	4,559.00	3/2	4,792.03	3/2	5,022.34	3/2	5,230.57	3/2	5,397.88	3/2	5,543.32	3/2	5,663.91				
5	3,727.83	5	4,023.91	5	4,306.65	5	4,564.12	5	4,796.64	5	5,027.92	5	5,236.15	5	5,403.46	5	5,548.90	5	5,669.49				
5 1/4	3,734.00	5 1/4	4,030.04	5 1/4	4,312.26	5 1/4	4,569.20	5 1/4	4,801.21	5 1/4	5,032.52	5 1/4	5,240.75	5 1/4	5,408.06	5 1/4	5,553.50	5 1/4	5,674.09				
5 1/2	3,740.17	5 1/2	4,036.17	5 1/2	4,317.87	5 1/2	4,574.28	5 1/2	4,805.77	5 1/2	5,038.09	5 1/2	5,246.32	5 1/2	5,413.63	5 1/2	5,559.07	5 1/2	5,679.66				
3/2	3,746.34	3/2	4,042.29	3/2	4,323.49	3/2	4,579.38	3/2	4,810.34	3/2	5,042.65	3/2	5,250.88	3/2	5,418.19	3/2	5,563.63	3/2	5,684.22				
6	3,752.51	6	4,048.42	6	4,329.10	6	4,584.44	6	4,814.90	6	5,048.21	6	5,256.44	6	5,423.75	6	5,569.19	6	5,689.78				
6 1/4	3,758.68	6 1/4	4,054.50	6 1/4	4,334.67	6 1/4	4,589.48	6 1/4	4,819.42	6 1/4	5,052.79	6 1/4	5,261.02	6 1/4	5,428.33	6 1/4	5,573.77	6 1/4	5,694.36				
6 1/2	3,764.85	6 1/2	4,060.59	6 1/2	4,340.23	6 1/2	4,594.52	6 1/2	4,823.95	6 1/2	5,057.26	6 1/2	5,265.49	6 1/2	5,432.80	6 1/2	5,578.24	6 1/2	5,698.83				
3/2	3,771.01	3/2	4,066.67	3/2	4,345.80	3/2	4,599.55	3/2	4,828.47	3/2	5,061.78	3/2	5,270.01	3/2	5,437.32	3/2	5,582.76	3/2	5,703.35				
7	3,777.18	7	4,072.75	7	4,351.37	7	4,604.59	7	4,832.99	7	5,066.30	7	5,274.53	7	5,441.84	7	5,587.28	7	5,707.87				
7 1/4	3,783.35	7 1/4	4,078.79	7 1/4	4,356.90	7 1/4	4,609.58	7 1/4	4,837.47	7 1/4	5,071.79	7 1/4	5,280.02	7 1/4	5,447.33	7 1/4	5,592.77	7 1/4	5,713.36				
7 1/2	3,789.52	7 1/2	4,084.84	7 1/2	4,362.42	7 1/2	4,614.58	7 1/2	4,841.95	7 1/2	5,077.26	7 1/2	5,285.49	7 1/2	5,452.80	7 1/2	5,600.24	7 1/2	5,720.83				
3/2	3,795.69	3/2	4,090.86	3/2	4,367.95	3/2	4,619.57	3/2	4,846.43	3/2	5,081.74	3/2	5,290.97	3/2	5,458.28	3/2	5,605.72	3/2	5,726.31				
8	3,801.86	8	4,096.92	8	4,373.47	8	4,624.57	8	4,850.91	8	5,083.22	8	5,292.45	8	5,460.76	8	5,608.20	8	5,728.79				
8 1/4	3,808.03	8 1/4	4,102.91	8 1/4	4,378.95	8 1/4	4,629.52	8 1/4	4,855.34	8 1/4	5,087.65	8 1/4	5,296.88	8 1/4	5,465.23	8 1/4	5,612.67	8 1/4	5,733.26				
8 1/2	3,814.20	8 1/2	4,108.91	8 1/2	4,384.42	8 1/2	4,634.47	8 1/2	4,859.78	8 1/2	5,092.09	8 1/2	5,301.32	8 1/2	5,469.67	8 1/2	5,617.11	8 1/2	5,737.70				
3/2	3,820.37	3/2	4,114.91	3/2	4,389.90	3/2	4,639.42	3/2	4,864.22	3/2	5,096.53	3/2	5,305.76	3/2	5,474.11	3/2	5,621.55	3/2	5,742.14				
9	3,826.54	9	4,120.91	9	4,395.37	9	4,644.37	9	4,868.55	9	5,100.86	9	5,310.09	9	5,478.44	9	5,625.88	9	5,746.47				
9 1/4	3,832.71	9 1/4	4,126.86	9 1/4	4,400.79	9 1/4	4,649.28	9 1/4	4,873.05	9 1/4	5,105.36	9 1/4	5,314.59	9 1/4	5,483.94	9 1/4	5,631.38	9 1/4	5,750.97				
9 1/2	3,838.88	9 1/2	4,132.82	9 1/2	4,406.22	9 1/2	4,654.19	9 1/2	4,877.44	9 1/2	5,111.75	9 1/2	5,320.98	9 1/2	5,489.33	9 1/2	5,636.77	9 1/2	5,756.36				
3/2	3,845.05	3/2	4,138.77	3/2	4,411.64	3/2	4,659.10	3/2	4,881.84	3/2	5,117.11	3/2	5,326.34	3/2	5,494.69	3/2	5,642.13	3/2	5,761.72				
10	3,851.22	10	4,144.73	10	4,417.07	10	4,664.01	10	4,886.23	10	5,123.32	10	5,332.55	10	5,500.90	10	5,648.34	10	5,767.93				
10 1/4	3,857.39	10 1/4	4,150.64	10 1/4	4,422.45	10 1/4	4,668.87	10 1/4	4,890.53	10 1/4	5,129.84	10 1/4	5,339.07	10 1/4	5,507.42	10 1/4	5,654.86	10 1/4	5,774.45				
10 1/2	3,863.55	10 1/2	4,156.55	10 1/2	4,427.83	10 1/2	4,673.74	10 1/2	4,894.82	10 1/2	5,135.15	10 1/2	5,344.38	10 1/2	5,512.73	10 1/2	5,660.17	10 1/2	5,779.76				
3/2	3,869.72	3/2	4,162.46	3/2	4,433.21	3/2	4,678.60	3/2	4,899.12	3/2	5,140.43	3/2	5,349.66	3/2	5,518.01	3/2	5,665.45	3/2	5,785.04				
11	3,875.89	11	4,168.37	11	4,438.59	11	4,683.47	11	4,903.42	11	5,145.78	11	5,355.01	11	5,523.36	11	5,670.80	11	5,790.39				
11 1/4	3,882.06	11 1/4	4,174.24	11 1/4	4,443.93	11 1/4	4,688.29	11 1/4	4,907.62	11 1/4	5,151.09	11 1/4	5,362.32	11 1/4	5,530.67	11 1/4	5,678.11	11 1/4	5,797.70				
11 1/2	3,888.23	11 1/2	4,180.11	11 1/2	4,449.26	11 1/2	4,693.12	11 1/2	4,911.82	11 1/2	5,156.41	11 1/2	5,367.64	11 1/2	5,537.99	11 1/2	5,685.43	11 1/2	5,805.02				
3/2	3,894.40	3/2	4,185.98	3/2	4,454.60	3/2	4,698.94	3/2	4,916.03	3/2	5,161.74	3/2	5,372.97	3/2	5,542.32	3/2	5,689.76	3/2	5,809.35				



BARGE "EMS 502"

ULLAGE TRIM TABLE

	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	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
1 STBD	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-3/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 236'-06"

August 15, 2018

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

<http://www.pmacorp.net>

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]

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 EXTENDS TO EXTREME HEIGHT OF TANK.
 GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 37'-03" FORWARD OF AFT BULKHEAD.

	3/4	3/4
2,591.97	2,591.97	2,591.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

ANALYSIS, INC.

ANALYSIS, INC.
P.O. Box 2092

P.O. Box 2092
Portland, Texas 77508

Pearland, Texas 77588
<http://www.nmacore.net>



BARGE "EMS 502"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 12 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	2,584.87	0	2,244.08	0	1,903.29	0	1,562.49	0	1,221.69	0	882.24	0	541.29	0	200.81	0	13.69	0	
1/4	2,577.77	1/4	2,236.98	1/4	1,896.19	1/4	1,555.39	1/4	1,214.59	1/4	875.26	1/4	534.29	1/4	199.91	1/4	10.38	1/4	
1/2	2,570.67	1/2	2,229.88	1/2	1,889.09	1/2	1,548.29	1/2	1,207.49	1/2	868.33	1/2	527.19	1/2	197.61	1/2		1/2	
3/4	2,563.57	3/4	2,222.78	3/4	1,881.99	3/4	1,541.19	3/4	1,200.39	3/4	861.40	3/4	520.09	3/4	195.23	3/4		3/4	
1	2,556.47	1	2,215.68	1	1,874.89	1	1,534.09	1	1,193.29	1	854.47	1	512.99	1	192.85	1		1	
1 1/4	2,549.37	1 1/4	2,208.58	1 1/4	1,867.79	1 1/4	1,526.99	1 1/4	1,186.19	1 1/4	847.54	1 1/4	505.99	1 1/4	190.47	1 1/4		1 1/4	
1 1/2	2,542.27	1 1/2	2,201.49	1 1/2	1,860.69	1 1/2	1,519.89	1 1/2	1,179.09	1 1/2	840.66	1 1/2	499.09	1 1/2	188.09	1 1/2		1 1/2	
3/4	2,535.17	3/4	2,194.39	3/4	1,853.59	3/4	1,512.79	3/4	1,171.99	3/4	833.78	3/4	492.19	3/4	185.71	3/4		3/4	
2	2,528.07	2	2,187.29	2	1,846.49	2	1,505.69	2	1,164.89	2	826.88	2	485.29	2	183.33	2		2	
2 1/4	2,520.97	2 1/4	2,180.19	2 1/4	1,839.39	2 1/4	1,498.59	2 1/4	1,157.79	2 1/4	820.03	2 1/4	478.39	2 1/4	180.95	2 1/4		2 1/4	
1 1/2	2,513.87	1 1/2	2,173.09	1 1/2	1,832.29	1 1/2	1,491.49	1 1/2	1,150.69	1 1/2	813.20	1 1/2	471.49	1 1/2	178.57	1 1/2		1 1/2	
3/4	2,506.77	3/4	2,165.99	3/4	1,825.19	3/4	1,484.39	3/4	1,143.59	3/4	806.36	3/4	464.59	3/4	176.19	3/4		3/4	
3	2,499.67	3	2,158.89	3	1,818.09	3	1,477.29	3	1,136.49	3	799.53	3	457.69	3	173.81	3		3	
1 1/4	2,492.57	1 1/4	2,151.79	1 1/4	1,810.99	1 1/4	1,470.19	1 1/4	1,129.39	1 1/4	792.70	1 1/4	450.79	1 1/4	171.43	1 1/4		1 1/4	
1 1/2	2,485.47	1 1/2	2,144.69	1 1/2	1,803.89	1 1/2	1,463.09	1 1/2	1,122.29	1 1/2	785.83	1 1/2	443.89	1 1/2	169.05	1 1/2		1 1/2	
3/4	2,478.37	3/4	2,137.59	3/4	1,796.79	3/4	1,455.99	3/4	1,115.19	3/4	778.93	3/4	436.93	3/4	166.67	3/4		3/4	
4	2,471.27	4	2,130.49	4	1,789.69	4	1,448.89	4	1,108.09	4	772.03	4	430.03	4	164.29	4		4	
1 1/4	2,464.17	1 1/4	2,123.39	1 1/4	1,782.59	1 1/4	1,441.79	1 1/4	1,100.99	1 1/4	765.16	1 1/4	423.13	1 1/4	161.91	1 1/4		1 1/4	
1 1/2	2,457.07	1 1/2	2,116.29	1 1/2	1,775.49	1 1/2	1,434.69	1 1/2	1,093.89	1 1/2	758.29	1 1/2	416.23	1 1/2	159.53	1 1/2		1 1/2	
3/4	2,449.97	3/4	2,109.19	3/4	1,768.39	3/4	1,427.59	3/4	1,086.79	3/4	751.39	3/4	409.33	3/4	157.15	3/4		3/4	
5	2,442.87	5	2,102.09	5	1,761.29	5	1,420.49	5	1,079.69	5	744.49	5	402.43	5	154.77	5		5	
1 1/4	2,435.78	1 1/4	2,094.99	1 1/4	1,754.19	1 1/4	1,413.39	1 1/4	1,072.59	1 1/4	737.61	1 1/4	395.53	1 1/4	152.39	1 1/4		1 1/4	
1 1/2	2,428.68	1 1/2	2,087.89	1 1/2	1,747.09	1 1/2	1,406.29	1 1/2	1,065.49	1 1/2	730.71	1 1/2	388.63	1 1/2	150.01	1 1/2		1 1/2	
3/4	2,421.58	3/4	2,080.79	3/4	1,739.99	3/4	1,399.19	3/4	1,058.39	3/4	723.81	3/4	381.73	3/4	147.63	3/4		3/4	
6	2,414.48	6	2,073.69	6	1,732.89	6	1,392.09	6	1,051.29	6	716.91	6	374.83	6	145.25	6		6	
1 1/4	2,407.38	1 1/4	2,066.59	1 1/4	1,725.79	1 1/4	1,384.99	1 1/4	1,044.19	1 1/4	710.01	1 1/4	367.93	1 1/4	142.87	1 1/4		1 1/4	
1 1/2	2,400.28	1 1/2	2,059.49	1 1/2	1,718.69	1 1/2	1,377.89	1 1/2	1,037.09	1 1/2	703.11	1 1/2	361.03	1 1/2	140.49	1 1/2		1 1/2	
3/4	2,393.18	3/4	2,052.39	3/4	1,711.59	3/4	1,370.79	3/4	1,030.19	3/4	696.21	3/4	354.13	3/4	138.11	3/4		3/4	
7	2,386.08	7	2,045.29	7	1,704.49	7	1,363.69	7	1,023.09	7	689.31	7	347.23	7	135.73	7		7	
1 1/4	2,378.98	1 1/4	2,038.19	1 1/4	1,697.39	1 1/4	1,356.59	1 1/4	1,015.99	1 1/4	682.41	1 1/4	340.33	1 1/4	133.35	1 1/4		1 1/4	
1 1/2	2,371.88	1 1/2	2,031.09	1 1/2	1,690.29	1 1/2	1,349.49	1 1/2	1,008.89	1 1/2	675.51	1 1/2	333.43	1 1/2	130.97	1 1/2		1 1/2	
3/4	2,364.78	3/4	2,023.99	3/4	1,683.19	3/4	1,342.39	3/4	1,001.79	3/4	668.61	3/4	326.53	3/4	128.59	3/4		3/4	
8	2,357.68	8	2,016.89	8	1,676.09	8	1,335.29	8	994.76	8	661.71	8	319.63	8	126.21	8		8	
1 1/4	2,350.58	1 1/4	2,009.79	1 1/4	1,668.99	1 1/4	1,328.19	1 1/4	987.70	1 1/4	654.81	1 1/4	312.73	1 1/4	123.83	1 1/4		1 1/4	
1 1/2	2,343.48	1 1/2	2,002.69	1 1/2	1,661.89	1 1/2	1,321.09	1 1/2	980.65	1 1/2	647.91	1 1/2	305.83	1 1/2	121.45	1 1/2		1 1/2	
3/4	2,336.38	3/4	1,995.59	3/4	1,654.79	3/4	1,313.99	3/4	973.59	3/4	641.01	3/4	298.93	3/4	119.07	3/4		3/4	
9	2,329.28	9	1,988.49	9	1,647.69	9	1,306.89	9	966.63	9	634.11	9	292.03	9	116.69	9		9	
1 1/4	2,322.18	1 1/4	1,981.39	1 1/4	1,640.59	1 1/4	1,299.79	1 1/4	959.48	1 1/4	627.21	1 1/4	285.13	1 1/4	114.31	1 1/4		1 1/4	
1 1/2	2,315.08	1 1/2	1,974.29	1 1/2	1,633.49	1 1/2	1,292.69	1 1/2	952.32	1 1/2	620.31	1 1/2	278.23	1 1/2	111.93	1 1/2		1 1/2	
3/4	2,307.98	3/4	1,967.19	3/4	1,626.39	3/4	1,285.59	3/4	945.38	3/4	613.41	3/4	271.33	3/4	109.55	3/4		3/4	
10	2,300.88	10	1,960.09	10	1,619.29	10	1,278.49	10	938.43	10	606.51	10	264.43	10	107.17	10		10	
1 1/4	2,293.78	1 1/4	1,952.99	1 1/4	1,612.19	1 1/4	1,271.39	1 1/4	931.27	1 1/4	600.61	1 1/4	257.53	1 1/4	104.79	1 1/4		1 1/4	
1 1/2	2,286.68	1 1/2	1,945.89	1 1/2	1,605.09	1 1/2	1,264.29	1 1/2	924.25	1 1/2	593.71	1 1/2	250.63	1 1/2	102.41	1 1/2		1 1/2	
3/4	2,279.58	3/4	1,938.79	3/4	1,597.99	3/4	1,257.19	3/4	917.23	3/4	586.81	3/4	243.73	3/4	100.03	3/4		3/4	
11	2,272.48	11	1,931.69	11	1,590.89	11	1,250.09	11	910.20	11	580.91	11	236.83	11	97.65	11		11	
1 1/4	2,265.38	1 1/4	1,924.59	1 1/4	1,583.79	1 1/4	1,242.99	1 1/4	903.18	1 1/4	574.01	1 1/4	229.93	1 1/4	95.27	1 1/4		1 1/4	
1 1/2	2,258.28	1 1/2	1,917.49	1 1/2	1,576.69	1 1/2	1,235.89	1 1/2	896.20	1 1/2	567.11	1 1/2	223.03	1 1/2	92.89	1 1/2		1 1/2	
3/4	2,251.18	3/4	1,910.39	3/4	1,569.59	3/4	1,228.79	3/4	889.22	3/4	560.21	3/4	216.13	3/4	90.51	3/4		3/4	

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
http://www.pmacorp.net

Paul J. Mac

1STBD

VILLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN										2 FT.										3 FT.										4 FT.										5 FT.										6 FT.										7 FT.										8 FT.										9 FT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					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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.

EXTENSION: ROSS EXTENDS TO EXTREME HEIGHT OF JANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED CALICING DEVICE

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 17'-03" FORWARD OF AFTER PERKINS.

SAUGE POINT: (HERMELIC) LOCATED 12-06" OFF CENTERLINE AND 37-03" FORWARD OF AFT BULKHEAD.

DATE	2,025.00	34	2,581.77
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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

2230

PRECISION MEASUREMENT

PRECISION MEASUREMENT
& ANALYSIS, INC.

86 ANALYSIS, INC.
P.O. Box 2082

P.O. Box 2092
Peorland Texas 77599

Pearland, Texas 77588
<http://www.nmacorn.net>

<http://www.pmacorp.net>

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BARGE "EMS 502"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,574.66	0	2,233.38	0	1,892.09	0	1,550.79	0	1,209.49	0	869.22	0	549.49	0	257.75	0		0	
1/4	2,567.55	1/4	2,226.27	1/4	1,884.98	1/4	1,543.68	1/4	1,202.38	1/4	862.88	1/4	543.12	1/4	251.99	1/4		1/4	
1/2	2,560.44	1/2	2,219.16	1/2	1,877.87	1/2	1,536.57	1/2	1,195.27	1/2	856.34	1/2	536.75	1/2	246.23	1/2		1/2	
3/4	2,553.33	3/4	2,212.05	3/4	1,870.76	3/4	1,529.46	3/4	1,188.16	3/4	849.00	3/4	530.38	3/4	240.47	3/4		3/4	
1	2,546.22	1	2,204.94	1	1,863.65	1	1,522.35	1	1,181.05	1	842.11	1	524.06	1	234.76	1		1	
1 1/4	2,539.11	1 1/4	2,197.83	1 1/4	1,856.54	1 1/4	1,515.24	1 1/4	1,173.94	1 1/4	835.22	1 1/4	517.74	1 1/4	229.05	1 1/4		1 1/4	
1 1/2	2,532.00	1 1/2	2,190.72	1 1/2	1,849.43	1 1/2	1,508.13	1 1/2	1,166.83	1 1/2	828.33	1 1/2	511.42	1 1/2	223.34	1 1/2		1 1/2	
1 3/4	2,524.89	1 3/4	2,183.61	1 3/4	1,842.32	1 3/4	1,501.02	1 3/4	1,159.72	1 3/4	821.44	1 3/4	505.10	1 3/4	217.64	1 3/4		1 3/4	
2	2,517.78	2	2,176.50	2	1,835.21	2	1,493.91	2	1,152.61	2	814.60	2	498.83	2	211.98	2		2	
2 1/4	2,510.67	2 1/4	2,169.39	2 1/4	1,828.10	2 1/4	1,486.80	2 1/4	1,145.50	2 1/4	807.76	2 1/4	492.56	2 1/4	206.32	2 1/4		2 1/4	
2 1/2	2,503.56	2 1/2	2,162.28	2 1/2	1,820.99	2 1/2	1,479.69	2 1/2	1,138.39	2 1/2	800.92	2 1/2	486.29	2 1/2	200.68	2 1/2		2 1/2	
2 3/4	2,496.45	2 3/4	2,155.17	2 3/4	1,813.88	2 3/4	1,472.58	2 3/4	1,131.28	2 3/4	794.08	2 3/4	480.02	2 3/4	195.01	2 3/4		2 3/4	
3	2,489.34	3	2,148.06	3	1,806.77	3	1,465.47	3	1,124.17	3	787.28	3	473.80	3	189.40	3		3	
3 1/4	2,482.23	3 1/4	2,140.95	3 1/4	1,799.66	3 1/4	1,458.36	3 1/4	1,117.06	3 1/4	780.48	3 1/4	467.59	3 1/4	183.79	3 1/4		3 1/4	
3 1/2	2,475.12	3 1/2	2,133.84	3 1/2	1,792.55	3 1/2	1,451.25	3 1/2	1,109.95	3 1/2	773.69	3 1/2	461.37	3 1/2	178.19	3 1/2		3 1/2	
3 3/4	2,468.01	3 3/4	2,126.73	3 3/4	1,785.44	3 3/4	1,444.14	3 3/4	1,102.84	3 3/4	766.89	3 3/4	455.15	3 3/4	172.58	3 3/4		3 3/4	
4	2,460.90	4	2,119.62	4	1,778.33	4	1,437.03	4	1,095.73	4	760.14	4	448.98	4	167.02	4		4	
4 1/4	2,453.79	4 1/4	2,112.51	4 1/4	1,771.22	4 1/4	1,429.92	4 1/4	1,088.62	4 1/4	753.40	4 1/4	442.81	4 1/4	161.47	4 1/4		4 1/4	
4 1/2	2,446.68	4 1/2	2,105.40	4 1/2	1,764.11	4 1/2	1,422.81	4 1/2	1,081.51	4 1/2	746.65	4 1/2	436.65	4 1/2	155.91	4 1/2		4 1/2	
4 3/4	2,439.57	4 3/4	2,098.29	4 3/4	1,756.99	4 3/4	1,415.70	4 3/4	1,074.40	4 3/4	739.90	4 3/4	430.48	4 3/4	150.36	4 3/4		4 3/4	
5	2,432.46	5	2,091.18	5	1,749.88	5	1,408.59	5	1,067.30	5	733.19	5	424.36	5	144.85	5		5	
5 1/4	2,425.35	5 1/4	2,084.07	5 1/4	1,742.77	5 1/4	1,401.47	5 1/4	1,060.20	5 1/4	726.48	5 1/4	418.25	5 1/4	139.35	5 1/4		5 1/4	
5 1/2	2,418.24	5 1/2	2,076.96	5 1/2	1,735.66	5 1/2	1,394.36	5 1/2	1,053.10	5 1/2	719.76	5 1/2	412.13	5 1/2	133.84	5 1/2		5 1/2	
5 3/4	2,411.13	5 3/4	2,069.85	5 3/4	1,728.55	5 3/4	1,387.25	5 3/4	1,046.01	5 3/4	713.05	5 3/4	406.02	5 3/4	128.34	5 3/4		5 3/4	
6	2,404.02	6	2,062.74	6	1,721.44	6	1,380.14	6	1,038.92	6	706.37	6	399.95	6	122.89	6		6	
6 1/4	2,396.91	6 1/4	2,055.63	6 1/4	1,714.33	6 1/4	1,373.03	6 1/4	1,031.84	6 1/4	699.70	6 1/4	393.88	6 1/4	117.43	6 1/4		6 1/4	
6 1/2	2,389.80	6 1/2	2,048.52	6 1/2	1,707.22	6 1/2	1,365.92	6 1/2	1,024.76	6 1/2	693.02	6 1/2	387.82	6 1/2	111.98	6 1/2		6 1/2	
6 3/4	2,382.69	6 3/4	2,041.41	6 3/4	1,700.11	6 3/4	1,358.81	6 3/4	1,017.68	6 3/4	686.34	6 3/4	381.75	6 3/4	106.52	6 3/4		6 3/4	
7	2,375.58	7	2,034.30	7	1,693.00	7	1,351.70	7	1,010.60	7	679.72	7	375.74	7	101.12	7		7	
7 1/4	2,368.47	7 1/4	2,027.19	7 1/4	1,685.89	7 1/4	1,344.59	7 1/4	1,003.53	7 1/4	673.09	7 1/4	369.73	7 1/4	96.72	7 1/4		7 1/4	
7 1/2	2,361.36	7 1/2	2,020.08	7 1/2	1,678.78	7 1/2	1,337.48	7 1/2	996.46	7 1/2	666.47	7 1/2	363.71	7 1/2	90.32	7 1/2		7 1/2	
7 3/4	2,354.25	7 3/4	2,012.97	7 3/4	1,671.67	7 3/4	1,330.37	7 3/4	989.38	7 3/4	659.84	7 3/4	357.70	7 3/4	84.91	7 3/4		7 3/4	
8	2,347.14	8	2,005.86	8	1,664.56	8	1,323.26	8	982.32	8	653.26	8	351.73	8	79.56	8		8	
8 1/4	2,340.03	8 1/4	1,998.75	8 1/4	1,657.45	8 1/4	1,316.15	8 1/4	975.25	8 1/4	646.89	8 1/4	345.77	8 1/4	74.21	8 1/4		8 1/4	
8 1/2	2,332.92	8 1/2	1,991.64	8 1/2	1,650.34	8 1/2	1,309.04	8 1/2	968.18	8 1/2	640.11	8 1/2	339.81	8 1/2	68.86	8 1/2		8 1/2	
8 3/4	2,325.81	8 3/4	1,984.53	8 3/4	1,643.23	8 3/4	1,301.93	8 3/4	961.11	8 3/4	633.54	8 3/4	333.84	8 3/4	63.51	8 3/4		8 3/4	
9	2,318.70	9	1,977.42	9	1,636.12	9	1,294.82	9	954.05	9	627.02	9	327.93	9	58.21	9		9	
9 1/4	2,311.59	9 1/4	1,970.31	9 1/4	1,629.01	9 1/4	1,287.71	9 1/4	946.99	9 1/4	620.49	9 1/4	322.02	9 1/4	52.91	9 1/4		9 1/4	
9 1/2	2,304.48	9 1/2	1,963.20	9 1/2	1,621.90	9 1/2	1,280.60	9 1/2	939.93	9 1/2	613.97	9 1/2	316.11	9 1/2	47.61	9 1/2		9 1/2	
9 3/4	2,297.37	9 3/4	1,956.09	9 3/4	1,614.79	9 3/4	1,273.49	9 3/4	932.87	9 3/4	607.44	9 3/4	310.19	9 3/4	42.30	9 3/4		9 3/4	
10	2,290.26	10	1,948.98	10	1,607.68	10	1,266.38	10	925.83	10	600.97	10	304.33	10	37.85	10		10	
10 1/4	2,283.15	10 1/4	1,941.86	10 1/4	1,600.57	10 1/4	1,259.27	10 1/4	918.80	10 1/4	594.50	10 1/4	298.47	10 1/4	32.99	10 1/4		10 1/4	
10 1/2	2,276.04	10 1/2	1,934.75	10 1/2	1,593.46	10 1/2	1,252.16	10 1/2	911.76	10 1/2	588.02	10 1/2	292.61	10 1/2	28.33	10 1/2		10 1/2	
10 3/4	2,268.93	10 3/4	1,927.64	10 3/4	1,586.35	10 3/4	1,245.05	10 3/4	904.72	10 3/4	581.55	10 3/4	286.75	10 3/4	23.58	10 3/4		10 3/4	
11	2,261.82	11	1,920.53	11	1,579.23	11	1,237.94	11	897.73	11	575.13	11	280.94	11	20.36	11		11	
11 1/4	2,254.71	11 1/4	1,913.42	11 1/4	1,572.12	11 1/4	1,230.83	11 1/4	890.74	11 1/4	568.71	11 1/4	275.13	11 1/4	17.04	11 1/4		11 1/4	
11 1/2	2,247.60	11 1/2	1,906.31	11 1/2	1,565.01	11 1/2	1,223.71	11 1/2	883.75	11 1/2	562.29	11 1/2	269.32	11 1/2	13.72	11 1/2		11 1/2	
11 3/4	2,240.49	11 3/4	1,899.20	11 3/4	1,557.90	11 3/4	1,216.60	11 3/4	876.76	11 3/4	555.86	11 3/4	263.51	11 3/4	10.40	11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmaocean.com>

Chris Jones



GAUGE HEIGHT 17'-11"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

SHEET NO. 5 OF 12



BARGE "EMS 502"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		17'-11"	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,066.01	0	2,680.50	0	2,292.98	0	1,905.45	0	1,517.92	0	1,130.40	0	743.14	0	355.68	0			
1/4	3,059.94	1/4	2,672.43	1/4	2,284.91	1/4	1,897.38	1/4	1,509.85	1/4	1,122.32	1/4	735.08	1/4	347.61	1/4			
1/2	3,051.87	1/2	2,664.36	1/2	2,276.83	1/2	1,889.31	1/2	1,501.78	1/2	1,114.25	1/2	727.01	1/2	339.54	1/2			
3/4	3,043.79	3/4	2,656.28	3/4	2,268.76	3/4	1,881.23	3/4	1,493.70	3/4	1,106.18	3/4	718.95	3/4	331.46	3/4			
1	3,035.72	1	2,648.21	1	2,260.69	1	1,873.16	1	1,485.63	1	1,098.10	1	710.89	1	323.39	1			
1 1/4	3,027.65	1 1/4	2,640.14	1 1/4	2,252.61	1 1/4	1,865.09	1 1/4	1,477.56	1 1/4	1,090.03	1 1/4	702.82	1 1/4	315.32	1 1/4			
1 1/2	3,019.57	1 1/2	2,632.06	1 1/2	2,244.54	1 1/2	1,857.01	1 1/2	1,469.48	1 1/2	1,081.96	1 1/2	694.75	1 1/2	307.24	1 1/2			
3/4	3,011.50	3/4	2,623.99	3/4	2,236.47	3/4	1,848.94	3/4	1,461.41	3/4	1,073.88	3/4	686.68	3/4	299.17	3/4			
2	3,003.43	2	2,615.92	2	2,228.39	2	1,840.86	2	1,453.34	2	1,065.81	2	678.62	2	291.10	2			
1 1/4	2,995.35	1 1/4	2,607.85	1 1/4	2,220.32	1 1/4	1,832.79	1 1/4	1,445.26	1 1/4	1,057.74	1 1/4	670.54	1 1/4	283.02	1 1/4			
1 1/2	2,987.28	1 1/2	2,599.77	1 1/2	2,212.25	1 1/2	1,824.72	1 1/2	1,437.19	1 1/2	1,049.66	1 1/2	662.47	1 1/2	274.95	1 1/2			
3/4	2,979.21	3/4	2,591.70	3/4	2,204.17	3/4	1,816.64	3/4	1,428.12	3/4	1,041.59	3/4	654.40	3/4	266.88	3/4			
3	2,971.13	3	2,583.63	3	2,196.10	3	1,808.57	3	1,420.04	3	1,033.51	3	646.32	3	258.80	3			
1 1/4	2,963.06	1 1/4	2,575.55	1 1/4	2,188.03	1 1/4	1,800.50	1 1/4	1,412.97	1 1/4	1,025.44	1 1/4	638.25	1 1/4	250.73	1 1/4			
1 1/2	2,954.99	1 1/2	2,567.48	1 1/2	2,179.95	1 1/2	1,792.42	1 1/2	1,404.90	1 1/2	1,017.37	1 1/2	630.18	1 1/2	242.66	1 1/2			
3/4	2,946.92	3/4	2,559.41	3/4	2,171.88	3/4	1,784.35	3/4	1,396.82	3/4	1,009.29	3/4	622.10	3/4	234.58	3/4			
4	2,938.84	4	2,551.33	4	2,163.80	4	1,776.28	4	1,388.75	4	1,001.22	4	614.03	4	226.51	4			
1 1/4	2,930.77	1 1/4	2,543.26	1 1/4	2,155.73	1 1/4	1,768.20	1 1/4	1,380.68	1 1/4	993.15	1 1/4	605.96	1 1/4	218.44	1 1/4			
1 1/2	2,922.70	1 1/2	2,535.19	1 1/2	2,147.66	1 1/2	1,760.13	1 1/2	1,372.60	1 1/2	985.07	1 1/2	597.88	1 1/2	210.36	1 1/2			
3/4	2,914.62	3/4	2,527.11	3/4	2,139.58	3/4	1,752.06	3/4	1,364.53	3/4	977.00	3/4	589.81	3/4	202.29	3/4			
5	2,906.55	5	2,519.04	5	2,131.51	5	1,743.98	5	1,356.45	5	968.93	5	581.74	5	194.22	5			
1 1/4	2,898.48	1 1/4	2,510.97	1 1/4	2,123.44	1 1/4	1,735.91	1 1/4	1,348.38	1 1/4	960.86	1 1/4	573.66	1 1/4	186.14	1 1/4			
1 1/2	2,890.40	1 1/2	2,502.89	1 1/2	2,115.36	1 1/2	1,727.84	1 1/2	1,340.31	1 1/2	952.79	1 1/2	565.59	1 1/2	178.07	1 1/2			
3/4	2,882.33	3/4	2,494.82	3/4	2,107.29	3/4	1,719.76	3/4	1,332.23	3/4	944.72	3/4	557.52	3/4	170.00	3/4			
6	2,874.26	6	2,486.74	6	2,099.22	6	1,711.69	6	1,324.16	6	936.65	6	549.44	6	161.92	6			
1 1/4	2,866.18	1 1/4	2,478.67	1 1/4	2,091.14	1 1/4	1,703.62	1 1/4	1,316.09	1 1/4	928.59	1 1/4	541.37	1 1/4	153.85	1 1/4			
1 1/2	2,858.11	1 1/2	2,470.60	1 1/2	2,083.07	1 1/2	1,695.54	1 1/2	1,308.01	1 1/2	920.53	1 1/2	533.30	1 1/2	145.78	1 1/2			
3/4	2,850.04	3/4	2,462.52	3/4	2,075.00	3/4	1,687.47	3/4	1,299.94	3/4	912.46	3/4	525.22	3/4	137.70	3/4			
7	2,841.97	7	2,454.45	7	2,066.92	7	1,679.39	7	1,291.87	7	904.40	7	517.15	7	129.63	7			
1 1/4	2,833.89	1 1/4	2,446.36	1 1/4	2,058.85	1 1/4	1,671.32	1 1/4	1,283.79	1 1/4	896.34	1 1/4	509.08	1 1/4	121.56	1 1/4			
1 1/2	2,825.82	1 1/2	2,438.30	1 1/2	2,050.78	1 1/2	1,663.25	1 1/2	1,275.72	1 1/2	888.27	1 1/2	501.00	1 1/2	113.48	1 1/2			
3/4	2,817.75	3/4	2,430.23	3/4	2,042.70	3/4	1,655.17	3/4	1,267.65	3/4	880.21	3/4	492.93	3/4	105.41	3/4			
8	2,809.67	8	2,422.16	8	2,034.63	8	1,647.10	8	1,259.57	8	872.15	8	484.86	8	97.34	8			
1 1/4	2,801.60	1 1/4	2,414.08	1 1/4	2,026.56	1 1/4	1,639.03	1 1/4	1,251.50	1 1/4	864.09	1 1/4	476.78	1 1/4	89.27	1 1/4			
1 1/2	2,793.53	1 1/2	2,406.01	1 1/2	2,018.48	1 1/2	1,630.95	1 1/2	1,243.43	1 1/2	856.02	1 1/2	468.71	1 1/2	81.19	1 1/2			
3/4	2,785.45	3/4	2,397.94	3/4	2,010.41	3/4	1,622.88	3/4	1,235.35	3/4	847.96	3/4	460.64	3/4	73.12	3/4			
9	2,777.38	9	2,389.86	9	2,002.33	9	1,614.81	9	1,227.28	9	839.90	9	452.56	9	65.05	9			
1 1/4	2,769.31	1 1/4	2,381.79	1 1/4	1,994.26	1 1/4	1,606.73	1 1/4	1,219.21	1 1/4	831.83	1 1/4	444.49	1 1/4	57.64	1 1/4			
1 1/2	2,761.23	1 1/2	2,373.72	1 1/2	1,986.19	1 1/2	1,598.66	1 1/2	1,211.13	1 1/2	823.77	1 1/2	436.42	1 1/2	49.52	1 1/2			
3/4	2,753.16	3/4	2,365.64	3/4	1,978.11	3/4	1,590.59	3/4	1,203.06	3/4	815.71	3/4	428.34	3/4	41.44	3/4			
10	2,745.09	10	2,357.57	10	1,970.04	10	1,582.51	10	1,194.98	10	807.64	10	420.27	10	33.44	10			
1 1/4	2,737.01	1 1/4	2,349.50	1 1/4	1,961.97	1 1/4	1,574.44	1 1/4	1,186.91	1 1/4	799.58	1 1/4	412.20	1 1/4	25.36	1 1/4			
1 1/2	2,728.94	1 1/2	2,341.42	1 1/2	1,953.89	1 1/2	1,566.37	1 1/2	1,178.84	1 1/2	791.52	1 1/2	404.12	1 1/2	17.28	1 1/2			
3/4	2,720.87	3/4	2,333.35	3/4	1,945.82	3/4	1,558.29	3/4	1,170.76	3/4	783.45	3/4	396.05	3/4	9.20	3/4			
11	2,712.80	11	2,325.27	11	1,937.75	11	1,550.22	11	1,162.69	11	775.38	11	387.98	11	1.12	11			
1 1/4	2,704.72	1 1/4	2,317.20	1 1/4	1,929.67	1 1/4	1,542.15	1 1/4	1,154.62	1 1/4	767.33	1 1/4	379.90	1 1/4	0.00	1 1/4			
1 1/2	2,696.65	1 1/2	2,309.13	1 1/2	1,921.60	1 1/2	1,534.07	1 1/2	1,146.54	1 1/2	759.27	1 1/2	371.83	1 1/2	0.00	1 1/2			
3/4	2,688.58	3/4	2,301.05	3/4	1,913.53	3/4	1,526.00	3/4	1,138.47	3/4	751.20	3/4	363.76	3/4	0.00	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 08/20/18

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
http://www.pmacorp.net

[illegible]

SHEET NO 7 OF 12



BARGE "EMS 502"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	3,073.07	0	2,684.87	0	2,296.67	0	1,908.45	0	1,520.23	0	1,138.95	0	760.64	0	372.49	0		0	
1/4	3,064.98	1/4	2,676.79	1/4	2,288.58	1/4	1,900.36	1/4	1,512.14	1/4	1,131.21	1/4	752.56	1/4	364.40	1/4		1/4	
1/2	3,056.89	1/2	2,668.70	1/2	2,280.49	1/2	1,892.27	1/2	1,504.05	1/2	1,123.47	1/2	744.48	1/2	356.31	1/2		1/2	
3/4	3,048.81	3/4	2,660.61	3/4	2,272.40	3/4	1,884.18	3/4	1,495.96	3/4	1,115.73	3/4	736.40	3/4	348.22	3/4		3/4	
1	3,040.72	1	2,652.52	1	2,264.32	1	1,876.10	1	1,487.88	1	1,107.99	1	728.32	1	340.14	1		1	
1/4	3,032.63	1/4	2,644.44	1/4	2,256.23	1/4	1,868.01	1/4	1,479.79	1/4	1,100.25	1/4	720.23	1/4	332.05	1/4		1/4	
1/2	3,024.55	1/2	2,636.35	1/2	2,248.14	1/2	1,859.92	1/2	1,471.70	1/2	1,092.51	1/2	712.15	1/2	323.96	1/2		1/2	
3/4	3,016.46	3/4	2,628.26	3/4	2,240.05	3/4	1,851.83	3/4	1,463.61	3/4	1,084.77	3/4	704.07	3/4	315.87	3/4		3/4	
1	3,008.37	1	2,620.18	1	2,231.96	1	1,843.74	1	1,455.53	1	1,077.03	1	696.99	1	307.79	1		1	
1/4	3,000.28	1/4	2,612.09	1/4	2,223.88	1/4	1,835.66	1/4	1,447.44	1/4	1,069.29	1/4	689.90	1/4	299.70	1/4		1/4	
1/2	2,992.20	1/2	2,604.00	1/2	2,215.79	1/2	1,827.57	1/2	1,439.35	1/2	1,061.54	1/2	679.82	1/2	291.61	1/2		1/2	
3/4	2,984.11	3/4	2,595.91	3/4	2,207.70	3/4	1,819.48	3/4	1,431.26	3/4	1,053.80	3/4	671.73	3/4	283.52	3/4		3/4	
1	2,976.02	1	2,587.83	1	2,199.61	1	1,811.39	1	1,423.17	1	1,046.06	1	663.64	1	275.44	1		1	
1/4	2,967.93	1/4	2,579.74	1/4	2,191.52	1/4	1,803.31	1/4	1,415.09	1/4	1,038.32	1/4	655.55	1/4	267.35	1/4		1/4	
1/2	2,959.85	1/2	2,571.65	1/2	2,183.44	1/2	1,795.22	1/2	1,407.00	1/2	1,030.58	1/2	647.47	1/2	259.26	1/2		1/2	
3/4	2,951.76	3/4	2,563.56	3/4	2,175.35	3/4	1,787.13	3/4	1,398.91	3/4	1,022.84	3/4	639.38	3/4	251.17	3/4		3/4	
1	2,943.67	1	2,555.48	1	2,167.26	1	1,779.04	1	1,390.82	1	1,015.10	1	631.29	1	243.09	1		1	
1/4	2,935.58	1/4	2,547.39	1/4	2,159.17	1/4	1,770.95	1/4	1,382.73	1/4	1,007.36	1/4	623.20	1/4	235.00	1/4		1/4	
1/2	2,927.50	1/2	2,539.30	1/2	2,151.08	1/2	1,762.87	1/2	1,374.65	1/2	999.62	1/2	615.11	1/2	226.91	1/2		1/2	
3/4	2,919.41	3/4	2,531.22	3/4	2,143.00	3/4	1,754.78	3/4	1,366.56	3/4	991.88	3/4	607.03	3/4	218.82	3/4		3/4	
1	2,911.32	1	2,523.13	1	2,134.91	1	1,746.69	1	1,358.47	1	984.14	1	598.94	1	210.73	1		1	
1/4	2,903.23	1/4	2,515.04	1/4	2,126.82	1/4	1,738.60	1/4	1,350.38	1/4	976.40	1/4	590.85	1/4	202.65	1/4		1/4	
1/2	2,895.15	1/2	2,506.95	1/2	2,118.73	1/2	1,730.51	1/2	1,342.29	1/2	968.65	1/2	582.76	1/2	194.56	1/2		1/2	
3/4	2,887.06	3/4	2,498.86	3/4	2,110.65	3/4	1,722.43	3/4	1,334.21	3/4	960.92	3/4	574.68	3/4	186.47	3/4		3/4	
1	2,878.97	1	2,490.78	1	2,102.56	1	1,714.34	1	1,326.12	1	953.18	1	566.59	1	178.38	1		1	
1/4	2,870.88	1/4	2,482.69	1/4	2,094.47	1/4	1,706.25	1/4	1,318.03	1/4	945.44	1/4	558.50	1/4	170.30	1/4		1/4	
1/2	2,862.80	1/2	2,474.60	1/2	2,086.38	1/2	1,698.16	1/2	1,309.94	1/2	937.71	1/2	550.41	1/2	162.21	1/2		1/2	
3/4	2,854.71	3/4	2,466.51	3/4	2,078.29	3/4	1,690.07	3/4	1,302.03	3/4	929.80	3/4	542.33	3/4	154.12	3/4		3/4	
1	2,846.62	1	2,458.43	1	2,070.21	1	1,681.99	1	1,294.12	1	921.89	1	534.24	1	146.03	1		1	
1/4	2,838.53	1/4	2,450.34	1/4	2,062.12	1/4	1,673.90	1/4	1,286.20	1/4	913.99	1/4	526.15	1/4	137.95	1/4		1/4	
1/2	2,830.45	1/2	2,442.25	1/2	2,054.03	1/2	1,665.81	1/2	1,278.29	1/2	906.08	1/2	518.05	1/2	129.86	1/2		1/2	
3/4	2,822.36	3/4	2,434.16	3/4	2,045.94	3/4	1,657.72	3/4	1,270.55	3/4	898.00	3/4	509.98	3/4	121.77	3/4		3/4	
1	2,814.27	1	2,426.07	1	2,037.85	1	1,649.64	1	1,262.81	1	889.92	1	501.89	1	113.68	1		1	
1/4	2,806.19	1/4	2,417.99	1/4	2,029.77	1/4	1,641.55	1/4	1,255.06	1/4	881.84	1/4	493.80	1/4	105.60	1/4		1/4	
1/2	2,798.10	1/2	2,409.90	1/2	2,021.68	1/2	1,633.46	1/2	1,247.32	1/2	873.76	1/2	485.71	1/2	97.51	1/2		1/2	
3/4	2,790.01	3/4	2,401.81	3/4	2,013.59	3/4	1,625.37	3/4	1,239.58	3/4	865.68	3/4	477.63	3/4	89.42	3/4		3/4	
1	2,781.92	1	2,393.72	1	2,005.50	1	1,617.28	1	1,231.84	1	857.60	1	469.54	1	81.33	1		1	
1/4	2,773.84	1/4	2,385.63	1/4	1,997.41	1/4	1,609.20	1/4	1,224.10	1/4	849.52	1/4	461.45	1/4	73.25	1/4		1/4	
1/2	2,765.75	1/2	2,377.55	1/2	1,989.33	1/2	1,601.11	1/2	1,216.36	1/2	841.44	1/2	453.36	1/2	65.16	1/2		1/2	
3/4	2,757.66	3/4	2,369.46	3/4	1,981.24	3/4	1,593.02	3/4	1,208.52	3/4	833.36	3/4	445.28	3/4	57.04	3/4		3/4	
1	2,749.57	1	2,361.37	1	1,973.15	1	1,584.93	1	1,200.88	1	825.28	1	437.19	1	50.33	1		1	
1/4	2,741.49	1/4	2,353.28	1/4	1,965.06	1/4	1,576.84	1/4	1,193.14	1/4	817.20	1/4	429.10	1/4	42.92	1/4		1/4	
1/2	2,733.40	1/2	2,345.19	1/2	1,956.98	1/2	1,568.76	1/2	1,185.40	1/2	809.12	1/2	421.01	1/2	35.80	1/2		1/2	
3/4	2,725.31	3/4	2,337.11	3/4	1,948.89	3/4	1,560.67	3/4	1,177.66	3/4	801.04	3/4	412.92	3/4	30.11	3/4		3/4	
1	2,717.22	1	2,329.02	1	1,940.80	1	1,552.58	1	1,169.92	1	792.96	1	404.84	1	24.72	1		1	
1/4	2,709.14	1/4	2,320.93	1/4	1,932.71	1/4	1,544.49	1/4	1,162.17	1/4	784.88	1/4	396.75	1/4	19.33	1/4		1/4	
1/2	2,701.05	1/2	2,312.84	1/2	1,924.62	1/2	1,536.40	1/2	1,154.43	1/2	776.80	1/2	388.65	1/2	13.94	1/2		1/2	
3/4	2,692.96	3/4	2,304.75	3/4	1,916.54	3/4	1,528.32	3/4	1,146.59	3/4	768.72	3/4	380.57	3/4		3/4		3/4	

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/18/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 502"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4	IN	0	1/4
0			1/4			1/2			3/4			1			1 1/4			1 1/2			1 3/4			1 7/8			2		
1/4			1/2			3/4			1			1 1/4			1 1/2			1 3/4			1 7/8			2			2 1/8		
1/2			3/4			1			1 1/4			1 1/2			1 3/4			1 7/8			2			2 1/8			2 3/8		
3/4			1			1 1/4			1 1/2			1 3/4			1 7/8			2			2 1/8			2 3/8			2 5/8		
1			1 1/4			1 1/2			1 3/4			1 7/8			2			2 1/8			2 3/8			2 5/8			2 7/8		
1 1/4			1 1/2			1 3/4			1 7/8			2			2 1/8			2 3/8			2 5/8			2 7/8			2 9/8		
1 1/2			1 3/4			1 7/8			2			2 1/8			2 3/8			2 5/8			2 7/8			2 9/8			3		
1 3/4			1 7/8			2			2 1/8			2 3/8			2 5/8			2 7/8			2 9/8			3			3 1/8		
2			2			2 1/8			2 3/8			2 5/8			2 7/8			2 9/8			3			3 1/8			3 3/8		
2 1/4			2 1/8			2 3/8			2 5/8			2 7/8			2 9/8			3			3 1/8			3 3/8			3 5/8		
2 1/2			2 3/8			2 5/8			2 7/8			2 9/8			3			3 1/8			3 3/8			3 5/8			3 7/8		
2 3/4			2 5/8			2 7/8			2 9/8			3			3 1/8			3 3/8			3 5/8			3 7/8			3 9/8		
3			2 7/8			2 9/8			3			3 1/8			3 3/8			3 5/8			3 7/8			3 9/8			4		
3 1/4			2 9/8			3			3 1/8			3 3/8			3 5/8			3 7/8			3 9/8			4			4 1/8		
3 1/2			3			3 1/8			3 3/8			3 5/8			3 7/8			3 9/8			4			4 1/8			4 3/8		
3 3/4			3 1/8			3 3/8			3 5/8			3 7/8			3 9/8			4			4 1/8			4 3/8			4 5/8		
4			3 3/8			3 5/8			3 7/8			3 9/8			4			4 1/8			4 3/8			4 5/8			4 7/8		
4 1/4			3 5/8			3 7/8			3 9/8			4			4 1/8			4 3/8			4 5/8			4 7/8			4 9/8		
4 1/2			3 7/8			3 9/8			4			4 1/8			4 3/8			4 5/8			4 7/8			4 9/8			5		
4 3/4			3 9/8			4			4 1/8			4 3/8			4 5/8			4 7/8			4 9/8			5			5 1/8		
5			4			4 1/8			4 3/8			4 5/8			4 7/8			4 9/8			5			5 1/8			5 3/8		
5 1/4			4 1/8			4 3/8			4 5/8			4 7/8			4 9/8			5			5 1/8			5 3/8			5 5/8		
5 1/2			4 3/8			4 5/8			4 7/8			4 9/8			5			5 1/8			5 3/8			5 5/8			5 7/8		
5 3/4			4 5/8			4 7/8			4 9/8			5			5 1/8			5 3/8			5 5/8			5 7/8			6		
6			4 7/8			4 9/8			5			5 1/8			5 3/8			5 5/8			5 7/8			6			6 1/8		
6 1/4			4 9/8			5			5 1/8			5 3/8			5 5/8			5 7/8			6			6 1/8			6 3/8		
6 1/2			4 9/8			5			5 1/8			5 3/8			5 5/8			5 7/8			6			6 1/8			6 3/8		
6 3/4			5			5 1/8			5 3/8			5 5/8			5 7/8			6			6 1/8			6 3/8			6 5/8		
7			5 1/8			5 3/8			5 5/8			5 7/8			6			6 1/8			6 3/8			6 5/8			6 7/8		
7 1/4			5 3/8			5 5/8			5 7/8			6			6 1/8			6 3/8			6 5/8			6 7/8			7		
7 1/2			5 5/8			5 7/8			6			6 1/8			6 3/8			6 5/8			6 7/8			7			7 1/8		
7 3/4			5 7/8			6			6 1/8			6 3/8			6 5/8			6 7/8			7			7 1/8			7 3/8		
8			6			6 1/8			6 3/8			6 5/8			6 7/8			7			7 1/8			7 3/8			7 5/8		
8 1/4			6 1/8			6 3/8			6 5/8			6 7/8			7			7 1/8			7 3/8			7 5/8			7 7/8		
8 1/2			6 3/8			6 5/8			6 7/8			7			7 1/8			7 3/8			7 5/8			7 7/8			8		
8 3/4			6 5/8			6 7/8			7			7 1/8			7 3/8			7 5/8			7 7/8			8			8 1/8		
9			6 7/8			7			7 1/8			7 3/8			7 5/8			7 7/8			8			8 1/8			8 3/8		
9 1/4			7			7 1/8			7 3/8			7 5/8			7 7/8			8			8 1/8			8 3/8			8 5/8		
9 1/2			7 1/8			7 3/8			7 5/8			7 7/8			8			8 1/8			8 3/8			8 5/8			8 7/8		
9 3/4			7 3/8			7 5/8			7 7/8			8			8 1/8			8 3/8			8 5/8			8 7/8			9		
10			7 5/8			7 7/8			8			8 1/8			8 3/8			8 5/8			8 7/8			9			9 1/8		
10 1/4			7 7/8			8			8 1/8			8 3/8			8 5/8			8 7/8			9			9 1/8			9 3/8		
10 1/2			8			8 1/8			8 3/8			8 5/8			8 7/8			9			9 1/8			9 3/8			9 5/8		
10 3/4			8 1/8			8 3/8			8 5/8			8 7/8			9			9 1/8			9 3/8			9 5/8			9 7/8		
11			8 3/8			8 5/8			8 7/8			9			9 1/8			9 3/8			9 5/8			9 7/8			10		
11 1/4			8 5/8			8 7/8			9			9 1/8			9 3/8			9 5/8			9 7/8			10			10 1/8		
11 1/2			8 7/8			9			9 1/8			9 3/8			9 5/8			9 7/8			10			10 1/8			10 3/8		
11 3/4			9			9 1/8			9 3/8			9 5/8			9 7/8			10			10 1/8			10 3/8			10 5/8		
12			9 1/8			9 3/8			9 5/8			9 7/8			10			10 1/8			10 3/8			10 5/8			10 7/8		
12 1/4			9 3/8			9 5/8			9 7/8			10			10 1/8			10 3/8			10 5/8			10 7/8			11		
12 1/2			9 5/8			9 7/8			10			10 1/8			10 3/8			10 5/8			10 7/8			11			11 1/8		
12 3/4			9 7/8			10			10 1/8			10 3/8			10 5/8			10 7/8			11			11 1/8			11 3/8		
13			10			10 1/8			10 3/8			10 5/8			10 7/8			11			11 1/8			11 3/8			11 5/8		
13 1/4			10 1/8			10 3/8			10 5/8			10 7/8			11			11 1/8			11 3/8			11 5/8			11 7/8		
13 1/2			10 3/8			10 5/8			10 7/8			11			11 1/8			11 3/8			11 5/8			11 7/8			12		
13 3/4			10 5/8			10 7/8			11			11 1/8			11 3/8			11 5/8			11 7/8			12			12 1/8		
14			10 7/8			11			11 1/8			11 3/8			11 5/8			11 7/8			12			12 1/8			12 3/8		
14 1/4			11			11 1/8			11 3/8			11 5/8			11 7/8			12			12 1/8			12 3/8			12 5/8		
14 1/2			11 1/8			11 3/8			11 5/8			11 7/8			12			12 1/8			12 3/8			12 5/8			12 7/8		
14 3/4			11 3/8			11 5/8			11 7/8			12			12 1/8			12 3/											



BARGE "EMS 502"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

CAPACITIES GIVEN IN BARRELS OF 32 U.S. GALLONS										GAUGE HEIGHT 18'-00 1/4"																																		
11 FT.					12 FT.					13 FT.					14 FT.					15 FT.					16 FT.					17 FT.					18 FT.					19 FT.				
IN	0	1	2	3	IN	0	1	2	3	IN	0	1	2	3	IN	0	1	2	3	IN	0	1	2	3	IN	0	1	2	3	IN	0	1	2	3										
0	2,891.34	0	2,531.00	0	2,170.50	0	1,809.96	0	1,449.42	0	1,088.88	0	728.79	0	368.50	0	17.99	0	728.79	0	368.50	0	17.99	0	728.79	0	368.50	0	17.99	0	728.79	0	368.50	0	17.99									
1/4	2,893.84	1/4	2,533.49	1/4	2,172.99	1/4	1,812.45	1/4	1,451.91	1/4	1,091.37	1/4	731.31	1/4	371.00	1/4	19.49	1/4	731.31	1/4	371.00	1/4	19.49	1/4	731.31	1/4	371.00	1/4	19.49	1/4	731.31	1/4	371.00	1/4	19.49									
1/2	2,896.33	1/2	2,535.98	1/2	2,175.48	1/2	1,814.94	1/2	1,454.40	1/2	1,093.86	1/2	733.79	1/2	373.49	1/2	20.99	1/2	733.79	1/2	373.49	1/2	20.99	1/2	733.79	1/2	373.49	1/2	20.99	1/2	733.79	1/2	373.49	1/2	20.99									
3/4	2,898.82	3/4	2,538.48	3/4	2,177.96	3/4	1,817.43	3/4	1,456.89	3/4	1,096.35	3/4	736.28	3/4	375.98	3/4	22.49	3/4	736.28	3/4	375.98	3/4	22.49	3/4	736.28	3/4	375.98	3/4	22.49	3/4	736.28	3/4	375.98	3/4	22.49									
1	2,891.31	1	2,500.97	1	2,140.45	1	1,779.92	1	1,419.38	1	1,058.84	1	698.33	1	338.46	1	7.99	1	698.33	1	338.46	1	7.99	1	698.33	1	338.46	1	7.99	1	698.33	1	338.46	1	7.99									
1/4	2,893.81	1/4	2,493.46	1/4	2,132.94	1/4	1,772.40	1/4	1,411.87	1/4	1,051.33	1/4	691.34	1/4	330.94	1/4	8.49	1/4	691.34	1/4	330.94	1/4	8.49	1/4	691.34	1/4	330.94	1/4	8.49	1/4	691.34	1/4	330.94	1/4	8.49									
1/2	2,896.30	1/2	2,495.95	1/2	2,125.43	1/2	1,764.89	1/2	1,404.36	1/2	1,043.82	1/2	683.85	1/2	323.43	1/2	9.99	1/2	683.85	1/2	323.43	1/2	9.99	1/2	683.85	1/2	323.43	1/2	9.99	1/2	683.85	1/2	323.43	1/2	9.99									
3/4	2,898.79	3/4	2,498.44	3/4	2,117.92	3/4	1,757.38	3/4	1,396.84	3/4	1,036.31	3/4	676.36	3/4	311.92	3/4	11.49	3/4	676.36	3/4	311.92	3/4	11.49	3/4	676.36	3/4	311.92	3/4	11.49	3/4	676.36	3/4	311.92	3/4	11.49									
1	2,891.29	1	2,470.94	1	2,110.41	1	1,749.87	1	1,388.33	1	1,026.80	1	668.87	1	308.41	1	12.99	1	668.87	1	308.41	1	12.99	1	668.87	1	308.41	1	12.99	1	668.87	1	308.41	1	12.99									
1/4	2,893.78	1/4	2,493.43	1/4	2,102.90	1/4	1,742.36	1/4	1,381.82	1/4	1,021.28	1/4	661.38	1/4	300.90	1/4	14.49	1/4	661.38	1/4	300.90	1/4	14.49	1/4	661.38	1/4	300.90	1/4	14.49	1/4	661.38	1/4	300.90	1/4	14.49									
1/2	2,896.27	1/2	2,495.92	1/2	2,095.39	1/2	1,734.85	1/2	1,374.31	1/2	1,016.77	1/2	653.89	1/2	293.39	1/2	15.99	1/2	653.89	1/2	293.39	1/2	15.99	1/2	653.89	1/2	293.39	1/2	15.99	1/2	653.89	1/2	293.39	1/2	15.99									
3/4	2,898.76	3/4	2,498.40	3/4	2,087.87	3/4	1,727.34	3/4	1,366.80	3/4	1,014.26	3/4	646.38	3/4	285.88	3/4	17.49	3/4	646.38	3/4	285.88	3/4	17.49	3/4	646.38	3/4	285.88	3/4	17.49	3/4	646.38	3/4	285.88	3/4	17.49									
1	2,891.26	1	2,440.89	1	2,080.36	1	1,719.83	1	1,359.29	1	1,011.77	1	638.88	1	278.37	1	18.99	1	638.88	1	278.37	1	18.99	1	638.88	1	278.37	1	18.99	1	638.88	1	278.37	1	18.99									
1/4	2,893.75	1/4	2,433.38	1/4	2,072.85	1/4	1,712.31	1/4	1,351.78	1/4	1,009.24	1/4	631.38	1/4	270.86	1/4	20.49	1/4	631.38	1/4	270.86	1/4	20.49	1/4	631.38	1/4	270.86	1/4	20.49	1/4	631.38	1/4	270.86	1/4	20.49									
1/2	2,896.24	1/2	2,425.87	1/2	2,065.34	1/2	1,704.80	1/2	1,344.27	1/2	1,006.73	1/2	623.87	1/2	263.35	1/2	21.99	1/2	623.87	1/2	263.35	1/2	21.99	1/2	623.87	1/2	263.35	1/2	21.99	1/2	623.87	1/2	263.35	1/2	21.99									
3/4	2,898.74	3/4	2,418.36	3/4	2,057.83	3/4	1,697.29	3/4	1,336.75	3/4	1,004.22	3/4	616.36	3/4	255.83	3/4	23.49	3/4	616.36	3/4	255.83	3/4	23.49	3/4	616.36	3/4	255.83	3/4	23.49	3/4	616.36	3/4	255.83	3/4	23.49									
1	2,891.23	1	2,410.85	1	2,050.32	1	1,689.78	1	1,325.24	1	998.71	1	608.85	1	248.32	1	24.99	1	608.85	1	248.32	1	24.99	1	608.85	1	248.32	1	24.99	1	608.85	1	248.32	1	24.99									
1/4	2,893.72	1/4	2,403.34	1/4	2,042.81	1/4	1,682.27	1/4	1,321.73	1/4	996.19	1/4	601.34	1/4	240.81	1/4	26.49	1/4	601.34	1/4	240.81	1/4	26.49	1/4	601.34	1/4	240.81	1/4	26.49	1/4	601.34	1/4	26.49	1/4	26.49									
1/2	2,896.21	1/2	2,395.83	1/2	2,035.30	1/2	1,674.76	1/2	1,314.22	1/2	993.68	1/2	593.83	1/2	233.30	1/2	27.99	1/2	593.83	1/2	233.30	1/2	27.99	1/2	593.83	1/2	233.30	1/2	27.99	1/2	593.83	1/2	27.99	1/2	27.99									
3/4	2,898.71	3/4	2,388.32	3/4	2,027.78	3/4	1,667.25	3/4	1,306.71	3/4	991.10	3/4	586.32	3/4	225.79	3/4	29.49	3/4	586.32	3/4	225.79	3/4	29.49	3/4	586.32	3/4	225.79	3/4	29.49	3/4	586.32	3/4	29.49	3/4	29.49									
1	2,891.20	1	2,380.81	1	2,020.27	1	1,659.74	1	1,299.20	1	988.58	1	578.81	1	218.28	1	30.99	1	578.81	1	218.28	1	30.99	1	578.81	1	218.28	1	30.99	1	578.81	1	30.99	1	30.99									
1/4	2,893.69	1/4	2,373.30	1/4	2,012.76	1/4	1,652.22	1/4	1,291.69	1/4	985.99	1/4	571.30	1/4	210.77	1/4	32.49	1/4	571.30	1/4	210.77	1/4	32.49	1/4	571.30	1/4	210.77	1/4	32.49	1/4	571.30	1/4	32.49	1/4	32.49									
1/2	2,896.19	1/2	2,365.79	1/2	2,005.25	1/2	1,644.71	1/2	1,284.18	1/2	983.47	1/2	563.79	1/2	203.26	1/2	33.99	1/2	563.79	1/2	203.26	1/2	33.99	1/2	563.79	1/2	203.26	1/2	33.99	1/2	563.79	1/2	33.99	1/2	33.99									
3/4	2,898.68	3/4	2,358.28	3/4	1,997.74	3/4	1,637.20	3/4	1,276.66	3/4	980.95	3/4	556.27	3/4	195.75	3/4	35.49	3/4	556.27	3/4	195.75	3/4	35.49	3/4	556.27	3/4	195.75	3/4	35.49	3/4	556.27	3/4	35.49	3/4	35.49									
1	2,891.17	1	2,350.77	1	1,990.23	1	1,629.69	1	1,269.15	1	978.43	1	548.76	1	188.24	1	36.99	1	548.76	1	188.24	1	36.99	1	548.76	1	188.24	1	36.99	1	548.76	1	36.99	1	36.99									
1/4	2,893.66	1/4	2,343.26	1/4	1,982.72	1/4	1,622.18	1/4	1,261.64	1/4	975.91	1/4	541.25	1/4	180.72	1/4	38.49	1/4	541.25	1/4	180.72	1/4	38.49	1/4	541.25	1/4	180.72	1/4	38.49	1/4	541.25	1/4	38.49	1/4	38.49									
1/2	2,896.16	1/2	2,335.74	1/2	1,975.21	1/2	1,614.67	1/2	1,254.13	1/2	973.39	1/2	533.74	1/2	173.21	1/2	39.99	1/2	533.74	1/2	173.21	1/2	39.99	1/2	533.74	1/2	173.21	1/2	39.99	1/2	533.74	1/2	39.99	1/2	39.99									
3/4	2,898.65	3/4	2,328.23	3/4	1,967.70	3/4	1,607.16	3/4	1,246.62	3/4	970.86	3/4	526.23	3/4	166.70	3/4	41.49	3/4	526.23	3/4	166.70	3/4	41.49	3/4	526.23	3/4	166.70	3/4	41.49	3/4	526.23	3/4	41.49	3/4	41.49									
1	2,891.14	1	2,320.72	1	1,960.18	1	1,599.65	1	1,239.11	1	968.34	1	518.72	1	158.19	1	42.99	1	518.72	1	158.19	1	42.99	1	518.72	1	158.19	1	42.99	1	518.72	1	42.99	1	42.99									
1/4	2,893.63	1/4	2,313.21	1/4	1,952.67	1/4	1,592.14	1/4	1,231.60	1/4	965.81	1/4	511.21	1/4	150.68	1/4	44.49	1/4	965.81	1/4	150.68	1/4	44.49	1/4	965.81	1/4	150.68	1/4	44.49	1/4	965.81	1/4	44.49	1/4	44.49									
1/2	2,896.13	1/2	2,305.70	1/2	1,945.16	1/2	1,584.62	1/2	1,224.09	1/2	963.29	1/2	503.70	1/2	143.17	1/2	45.99	1/2	503.70	1/2	143.17	1/2	45.99	1/2	503.70	1/2	1																	



BARGE "EMS 502"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4			3/4		
1			1			1			1			1			1			1			1			1			1		
1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4			1/4		
1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2			1/2		
3/4																													



BARGE "EMS 502"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,848.36	0	2,486.67	0	2,124.94	0	1,765.37	0	1,403.30	0	1,048.21	0	694.93	0	332.77	0			
1/4	2,840.82	1/4	2,479.14	1/4	2,117.46	1/4	1,757.83	1/4	1,395.76	1/4	1,040.98	1/4	687.40	1/4	325.22	1/4			
1/2	2,833.27	1/2	2,471.61	1/2	2,109.97	1/2	1,750.28	1/2	1,388.22	1/2	1,033.76	1/2	679.88	1/2	317.65	1/2			
3/4	2,825.73	3/4	2,464.08	3/4	2,102.49	3/4	1,742.74	3/4	1,380.68	3/4	1,026.54	3/4	672.35	3/4	310.13	3/4			
1	2,818.19	1	2,456.55	1	2,095.01	1	1,735.20	1	1,373.13	1	1,019.32	1	664.82	1	302.58	1			
1/4	2,810.65	1/4	2,449.01	1/4	2,087.52	1/4	1,727.65	1/4	1,365.59	1/4	1,012.10	1/4	657.29	1/4	295.03	1/4			
1/2	2,803.11	1/2	2,441.48	1/2	2,080.04	1/2	1,720.11	1/2	1,358.05	1/2	1,004.88	1/2	649.75	1/2	287.49	1/2			
3/4	2,795.57	3/4	2,433.94	3/4	2,072.55	3/4	1,712.57	3/4	1,350.50	3/4	997.66	3/4	642.21	3/4	279.94	3/4			
1	2,788.03	1	2,426.40	1	2,065.07	1	1,705.02	1	1,342.96	1	990.44	1	634.67	1	272.39	1			
1/4	2,780.49	1/4	2,418.86	1/4	2,057.59	1/4	1,697.48	1/4	1,335.42	1/4	983.22	1/4	627.12	1/4	264.84	1/4			
1/2	2,772.95	1/2	2,411.32	1/2	2,050.10	1/2	1,689.94	1/2	1,327.87	1/2	976.00	1/2	619.58	1/2	257.30	1/2			
3/4	2,765.41	3/4	2,403.77	3/4	2,042.62	3/4	1,682.40	3/4	1,320.33	3/4	968.78	3/4	612.03	3/4	249.75	3/4			
1	2,757.87	1	2,396.23	1	2,035.14	1	1,674.85	1	1,312.79	1	961.56	1	604.48	1	242.20	1			
1/4	2,750.33	1/4	2,388.69	1/4	2,027.65	1/4	1,667.31	1/4	1,305.25	1/4	954.34	1/4	596.93	1/4	234.66	1/4			
1/2	2,742.78	1/2	2,381.14	1/2	2,020.17	1/2	1,659.77	1/2	1,297.70	1/2	947.12	1/2	589.39	1/2	227.11	1/2			
3/4	2,735.24	3/4	2,373.59	3/4	2,012.68	3/4	1,652.22	3/4	1,290.16	3/4	939.90	3/4	581.84	3/4	219.56	3/4			
1	2,727.70	1	2,366.05	1	2,005.20	1	1,644.68	1	1,282.62	1	932.68	1	574.29	1	212.02	1			
1/4	2,720.16	1/4	2,358.50	1/4	1,997.72	1/4	1,637.14	1/4	1,275.07	1/4	925.46	1/4	566.74	1/4	204.47	1/4			
1/2	2,712.62	1/2	2,350.95	1/2	1,990.23	1/2	1,629.59	1/2	1,267.53	1/2	918.24	1/2	559.20	1/2	196.93	1/2			
3/4	2,705.08	3/4	2,343.41	3/4	1,982.75	3/4	1,622.05	3/4	1,259.99	3/4	911.02	3/4	551.65	3/4	189.38	3/4			
1	2,697.54	1	2,335.86	1	1,975.27	1	1,614.51	1	1,252.44	1	903.80	1	544.10	1	181.83	1			
1/4	2,690.00	1/4	2,328.32	1/4	1,967.78	1/4	1,606.97	1/4	1,244.90	1/4	896.59	1/4	536.55	1/4	174.28	1/4			
1/2	2,682.46	1/2	2,320.77	1/2	1,960.30	1/2	1,599.42	1/2	1,237.36	1/2	889.37	1/2	529.01	1/2	166.73	1/2			
3/4	2,674.93	3/4	2,313.22	3/4	1,952.81	3/4	1,591.88	3/4	1,229.82	3/4	882.15	3/4	521.46	3/4	159.18	3/4			
1	2,667.39	1	2,305.68	1	1,945.33	1	1,584.34	1	1,222.27	1	874.94	1	513.91	1	151.63	1			
1/4	2,659.86	1/4	2,298.13	1/4	1,937.85	1/4	1,576.79	1/4	1,214.89	1/4	867.57	1/4	506.36	1/4	144.08	1/4			
1/2	2,652.32	1/2	2,290.58	1/2	1,930.36	1/2	1,569.25	1/2	1,207.50	1/2	860.20	1/2	498.82	1/2	136.52	1/2			
3/4	2,644.79	3/4	2,283.04	3/4	1,922.88	3/4	1,561.71	3/4	1,200.11	3/4	852.83	3/4	491.27	3/4	128.96	3/4			
1	2,637.26	1	2,275.49	1	1,915.40	1	1,554.16	1	1,192.72	1	845.46	1	483.72	1	121.41	1			
1/4	2,629.73	1/4	2,267.95	1/4	1,907.91	1/4	1,546.62	1/4	1,185.49	1/4	837.93	1/4	476.17	1/4	113.85	1/4			
1/2	2,622.20	1/2	2,260.40	1/2	1,900.43	1/2	1,539.08	1/2	1,178.26	1/2	830.41	1/2	468.63	1/2	106.29	1/2			
3/4	2,614.67	3/4	2,252.85	3/4	1,892.95	3/4	1,531.54	3/4	1,171.03	3/4	822.88	3/4	461.08	3/4	98.73	3/4			
1	2,607.14	1	2,245.31	1	1,885.48	1	1,523.99	1	1,163.80	1	815.35	1	453.53	1	91.17	1			
1/4	2,599.61	1/4	2,237.76	1/4	1,877.98	1/4	1,516.45	1/4	1,156.57	1/4	807.83	1/4	445.98	1/4	83.61	1/4			
1/2	2,592.08	1/2	2,230.21	1/2	1,870.49	1/2	1,508.91	1/2	1,149.33	1/2	800.30	1/2	438.44	1/2	76.05	1/2			
3/4	2,584.55	3/4	2,222.67	3/4	1,863.01	3/4	1,501.36	3/4	1,142.10	3/4	792.77	3/4	430.89	3/4	68.49	3/4			
1	2,577.02	1	2,215.12	1	1,855.53	1	1,493.82	1	1,134.87	1	785.25	1	423.34	1	60.93	1			
1/4	2,569.49	1/4	2,207.58	1/4	1,848.04	1/4	1,486.28	1/4	1,127.65	1/4	777.72	1/4	415.79	1/4	54.00	1/4			
1/2	2,561.97	1/2	2,200.03	1/2	1,840.56	1/2	1,478.73	1/2	1,120.42	1/2	770.20	1/2	408.25	1/2	47.07	1/2			
3/4	2,554.44	3/4	2,192.48	3/4	1,833.08	3/4	1,471.19	3/4	1,113.19	3/4	762.67	3/4	400.70	3/4	40.15	3/4			
1	2,546.91	1	2,184.94	1	1,825.59	1	1,463.65	1	1,105.97	1	755.14	1	393.15	1	33.22	1			
1/4	2,539.38	1/4	2,177.42	1/4	1,818.08	1/4	1,456.11	1/4	1,098.75	1/4	747.62	1/4	385.60	1/4	28.18	1/4			
1/2	2,531.85	1/2	2,169.91	1/2	1,810.57	1/2	1,448.56	1/2	1,091.53	1/2	740.09	1/2	378.06	1/2	23.14	1/2			
3/4	2,524.32	3/4	2,162.39	3/4	1,803.05	3/4	1,441.02	3/4	1,084.31	3/4	732.56	3/4	370.51	3/4	18.10	3/4			
1	2,516.79	1	2,154.87	1	1,795.54	1	1,433.48	1	1,077.09	1	725.04	1	362.96	1	13.06	1			
1/4	2,509.26	1/4	2,147.39	1/4	1,788.00	1/4	1,425.93	1/4	1,069.87	1/4	717.51	1/4	355.41	1/4		1/4			
1/2	2,501.73	1/2	2,139.91	1/2	1,780.45	1/2	1,418.39	1/2	1,062.65	1/2	709.98	1/2	347.87	1/2		1/2			
3/4	2,494.20	3/4	2,132.42	3/4	1,772.91	3/4	1,410.85	3/4	1,055.43	3/4	702.46	3/4	340.32	3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2018 SW
CALCULATED: 08/16/2018 CL
PRINTED: 08/16/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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