



BARGE "EMS 390"

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	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-4/8	01-4/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-3/8	01-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(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 00-1/2"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

February 18, 2015

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

<http://www.pmacorp.net>



BARGE "EMS 390"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	16.19	0	267.99	0	552.31	0	859.15	0	1,187.08	0	1,518.67	0	1,850.26	0	2,181.85	0	2,513.44	0	2,845.02
1/4	19.42	1/4	273.69	1/4	558.50	1/4	865.79	1/4	1,193.99	1/4	1,525.58	1/4	1,857.17	1/4	2,188.76	1/4	2,520.35	1/4	2,851.93
1/2	22.65	1/2	279.38	1/2	564.69	1/2	872.43	1/2	1,200.90	1/2	1,532.49	1/2	1,864.08	1/2	2,195.67	1/2	2,527.26	1/2	2,858.84
3/4	25.88	3/4	285.08	3/4	570.88	3/4	879.07	3/4	1,207.81	3/4	1,539.40	3/4	1,870.99	3/4	2,202.58	3/4	2,534.16	3/4	2,865.74
1	29.11	1	290.78	1	577.07	1	885.71	1	1,214.72	1	1,546.31	1	1,877.89	1	2,209.48	1	2,541.07	1	2,872.65
1/4	34.11	1/4	296.52	1/4	583.30	1/4	892.40	1/4	1,221.63	1/4	1,553.21	1/4	1,884.80	1/4	2,216.39	1/4	2,547.98	1/4	2,879.56
1/2	39.11	1/2	302.26	1/2	589.53	1/2	899.08	1/2	1,228.53	1/2	1,560.12	1/2	1,891.71	1/2	2,223.30	1/2	2,554.89	1/2	2,886.46
3/4	44.11	3/4	308.00	3/4	595.76	3/4	905.76	3/4	1,235.44	3/4	1,567.03	3/4	1,898.62	3/4	2,230.21	3/4	2,561.80	3/4	2,893.37
2	49.11	2	313.73	2	601.99	2	912.44	2	1,242.35	2	1,573.94	2	1,905.53	2	2,237.12	2	2,568.70	2	2,900.28
1/4	54.40	1/4	319.51	1/4	608.26	1/4	919.16	1/4	1,249.26	1/4	1,580.85	1/4	1,912.44	1/4	2,244.02	1/4	2,575.61	1/4	2,907.18
1/2	59.68	1/2	325.29	1/2	614.53	1/2	925.88	1/2	1,256.17	1/2	1,587.75	1/2	1,919.34	1/2	2,250.93	1/2	2,582.52	1/2	2,914.09
3/4	64.97	3/4	331.07	3/4	620.81	3/4	932.61	3/4	1,263.07	3/4	1,594.66	3/4	1,926.25	3/4	2,257.84	3/4	2,589.43	3/4	2,921.00
3	70.26	3	336.85	3	627.08	3	939.33	3	1,269.98	3	1,601.57	3	1,933.16	3	2,264.75	3	2,596.34	3	2,927.91
1/4	75.59	1/4	342.67	1/4	633.39	1/4	946.11	1/4	1,276.89	1/4	1,608.48	1/4	1,940.07	1/4	2,271.66	1/4	2,603.25	1/4	2,934.81
1/2	80.92	1/2	348.49	1/2	639.71	1/2	952.89	1/2	1,283.80	1/2	1,615.39	1/2	1,946.98	1/2	2,278.56	1/2	2,610.15	1/2	2,941.72
3/4	86.24	3/4	354.32	3/4	646.02	3/4	959.67	3/4	1,290.71	3/4	1,622.30	3/4	1,953.88	3/4	2,285.47	3/4	2,617.06	3/4	2,948.63
4	91.57	4	360.14	4	652.33	4	966.45	4	1,297.61	4	1,629.20	4	1,960.79	4	2,292.38	4	2,623.97	4	2,955.53
1/4	96.94	1/4	366.00	1/4	658.69	1/4	973.27	1/4	1,304.52	1/4	1,636.11	1/4	1,967.70	1/4	2,299.29	1/4	2,630.88	1/4	2,962.44
1/2	102.31	1/2	371.86	1/2	665.04	1/2	980.10	1/2	1,311.43	1/2	1,643.02	1/2	1,974.61	1/2	2,306.20	1/2	2,637.79	1/2	2,969.35
3/4	107.68	3/4	377.72	3/4	671.39	3/4	986.92	3/4	1,318.34	3/4	1,649.93	3/4	1,981.52	3/4	2,313.11	3/4	2,644.69	3/4	2,976.26
5	113.05	5	383.58	5	677.75	5	993.74	5	1,325.25	5	1,656.84	5	1,988.42	5	2,320.01	5	2,651.60	5	2,983.16
1/4	118.46	1/4	389.49	1/4	684.11	1/4	1,000.63	1/4	1,332.16	1/4	1,663.74	1/4	1,995.33	1/4	2,326.92	1/4	2,658.51	1/4	2,990.07
1/2	123.87	1/2	395.39	1/2	690.48	1/2	1,007.52	1/2	1,339.06	1/2	1,670.65	1/2	2,002.24	1/2	2,333.83	1/2	2,665.42	1/2	2,996.98
3/4	129.28	3/4	401.29	3/4	696.85	3/4	1,014.40	3/4	1,345.97	3/4	1,677.56	3/4	2,009.15	3/4	2,340.74	3/4	2,672.33	3/4	3,003.88
6	134.69	6	407.19	6	703.21	6	1,021.29	6	1,352.88	6	1,684.47	6	2,016.06	6	2,347.65	6	2,679.23	6	3,010.79
1/4	140.14	1/4	413.14	1/4	709.62	1/4	1,028.20	1/4	1,359.79	1/4	1,691.38	1/4	2,022.97	1/4	2,354.55	1/4	2,686.14	1/4	3,017.70
1/2	145.59	1/2	419.08	1/2	716.03	1/2	1,035.11	1/2	1,366.70	1/2	1,698.28	1/2	2,029.87	1/2	2,361.46	1/2	2,693.05	1/2	3,024.61
3/4	151.05	3/4	425.03	3/4	722.43	3/4	1,042.01	3/4	1,373.60	3/4	1,705.19	3/4	2,036.78	3/4	2,368.37	3/4	2,699.96	3/4	3,031.51
7	156.50	7	430.97	7	728.84	7	1,048.92	7	1,380.51	7	1,712.10	7	2,043.69	7	2,375.28	7	2,706.87	7	3,038.42
1/4	161.99	1/4	436.95	1/4	735.28	1/4	1,055.83	1/4	1,387.42	1/4	1,719.01	1/4	2,050.60	1/4	2,382.19	1/4	2,713.78	1/4	3,045.33
1/2	167.48	1/2	442.94	1/2	741.71	1/2	1,062.74	1/2	1,394.33	1/2	1,725.92	1/2	2,057.51	1/2	2,389.09	1/2	2,720.68	1/2	3,052.23
3/4	172.98	3/4	448.92	3/4	748.15	3/4	1,069.65	3/4	1,401.24	3/4	1,732.82	3/4	2,064.41	3/4	2,396.00	3/4	2,727.59	3/4	3,059.14
8	178.47	8	454.91	8	754.58	8	1,076.56	8	1,408.14	8	1,739.73	8	2,071.32	8	2,402.91	8	2,734.50	8	3,066.05
1/4	184.00	1/4	460.93	1/4	761.06	1/4	1,083.46	1/4	1,415.05	1/4	1,746.64	1/4	2,078.23	1/4	2,409.82	1/4	2,741.41	1/4	3,072.96
1/2	189.53	1/2	466.96	1/2	767.54	1/2	1,090.37	1/2	1,421.96	1/2	1,753.55	1/2	2,085.14	1/2	2,416.73	1/2	2,748.32	1/2	3,079.86
3/4	195.07	3/4	472.99	3/4	774.01	3/4	1,097.28	3/4	1,428.87	3/4	1,760.46	3/4	2,092.05	3/4	2,423.63	3/4	2,755.22	3/4	3,086.77
9	200.60	9	479.01	9	780.49	9	1,104.19	9	1,435.78	9	1,767.37	9	2,098.95	9	2,430.54	9	2,762.13	9	3,093.68
1/4	206.18	1/4	485.08	1/4	787.01	1/4	1,111.10	1/4	1,442.68	1/4	1,774.27	1/4	2,105.86	1/4	2,437.45	1/4	2,769.04	1/4	3,100.58
1/2	211.75	1/2	491.15	1/2	793.52	1/2	1,118.00	1/2	1,449.59	1/2	1,781.18	1/2	2,112.77	1/2	2,444.36	1/2	2,775.95	1/2	3,107.49
3/4	217.33	3/4	497.21	3/4	800.04	3/4	1,124.91	3/4	1,456.50	3/4	1,788.09	3/4	2,119.68	3/4	2,451.27	3/4	2,782.86	3/4	3,114.40
10	222.90	10	503.28	10	806.56	10	1,131.82	10	1,463.41	10	1,795.00	10	2,126.59	10	2,458.18	10	2,789.76	10	3,121.30
1/4	228.52	1/4	509.39	1/4	813.11	1/4	1,138.73	1/4	1,470.32	1/4	1,801.91	1/4	2,133.49	1/4	2,465.08	1/4	2,796.67	1/4	3,128.21
1/2	234.13	1/2	515.50	1/2	819.66	1/2	1,145.64	1/2	1,477.23	1/2	1,808.81	1/2	2,140.40	1/2	2,471.99	1/2	2,803.58	1/2	3,135.12
3/4	239.75	3/4	521.60	3/4	826.22	3/4	1,152.54	3/4	1,484.13	3/4	1,815.72	3/4	2,147.31	3/4	2,478.90	3/4	2,810.49	3/4	3,142.03
11	245.36	11	527.71	11	832.77	11	1,159.45	11	1,491.04	11	1,822.63	11	2,154.22	11	2,485.81	11	2,817.39	11	3,148.93
1/4	251.02	1/4	533.86	1/4	839.37	1/4	1,166.36	1/4	1,497.95	1/4	1,829.54	1/4	2,161.13	1/4	2,492.72	1/4	2,824.30	1/4	3,155.84
1/2	256.68	1/2	540.01	1/2	845.96	1/2	1,173.27	1/2	1,504.86	1/2	1,836.45	1/2	2,168.04	1/2	2,499.62	1/2	2,831.21	1/2	3,162.75
3/4	262.33	3/4	546.16	3/4	852.56	3/4	1,180.18	3/4	1,511.77	3/4	1,843.35	3/4	2,174.94	3/4	2,506.53	3/4	2,838.11	3/4	3,169.65

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 390"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	3,176.56	0	3,507.96	0	3,827.35	0	4,126.15	0		0		0		0		0		0	
1/4	3,183.47	1/4	3,514.81	1/4	3,833.78	1/4	4,132.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,190.38	1/2	3,521.65	1/2	3,840.21	1/2	4,138.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,197.28	3/4	3,528.49	3/4	3,846.64	3/4	4,144.08	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,204.19	1	3,535.33	1	3,853.07	1	4,150.06	1		1		1		1		1		1	
1/4	3,211.10	1/4	3,542.14	1/4	3,859.47	1/4	4,156.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.00	1/2	3,548.95	1/2	3,865.86	1/2	4,161.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,224.91	3/4	3,555.76	3/4	3,872.26	3/4	4,167.89	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,231.82	2	3,562.57	2	3,878.65	2	4,173.84	2		2		2		2		2		2	
1/4	3,238.73	1/4	3,569.34	1/4	3,885.02	1/4	4,179.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.63	1/2	3,576.12	1/2	3,891.38	1/2	4,185.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,252.54	3/4	3,582.89	3/4	3,897.74	3/4	4,191.57	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,259.45	3	3,589.66	3	3,904.10	3	4,197.48	3		3		3		3		3		3	
1/4	3,266.35	1/4	3,596.40	1/4	3,910.43	1/4	4,203.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.26	1/2	3,603.14	1/2	3,916.76	1/2	4,209.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.17	3/4	3,609.88	3/4	3,923.08	3/4	4,215.10	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,287.08	4	3,616.62	4	3,929.41	4	4,220.98	4		4		4		4		4		4	
1/4	3,293.98	1/4	3,623.33	1/4	3,935.71	1/4	4,227.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.89	1/2	3,630.03	1/2	3,942.00	1/2	4,233.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,307.80	3/4	3,636.74	3/4	3,948.29	3/4	4,240.07	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,314.70	5	3,643.44	5	3,954.58	5	4,246.43	5		5		5		5		5		5	
1/4	3,321.61	1/4	3,650.12	1/4	3,960.84	1/4	4,253.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,328.52	1/2	3,656.79	1/2	3,967.10	1/2	4,260.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,335.43	3/4	3,663.46	3/4	3,973.36	3/4	4,267.03	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,342.33	6	3,670.13	6	3,979.62	6	4,273.90	6		6		6		6		6		6	
1/4	3,349.24	1/4	3,676.77	1/4	3,985.84	1/4	4,280.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,356.15	1/2	3,683.40	1/2	3,992.07	1/2	4,287.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,363.05	3/4	3,690.04	3/4	3,998.29	3/4	4,294.50	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,369.96	7	3,696.67	7	4,004.52	7	4,301.37	7		7		7		7		7		7	
1/4	3,376.87	1/4	3,703.28	1/4	4,010.67	1/4	4,308.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,383.77	1/2	3,709.88	1/2	4,016.82	1/2	4,314.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,390.68	3/4	3,716.48	3/4	4,022.97	3/4	4,321.75	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,397.59	8	3,723.08	8	4,029.12	8	4,328.54	8		8		8		8		8		8	
1/4	3,404.50	1/4	3,729.65	1/4	4,035.23	1/4	4,334.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,411.40	1/2	3,736.22	1/2	4,041.35	1/2	4,340.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,418.31	3/4	3,742.79	3/4	4,047.47	3/4	4,347.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,425.22	9	3,749.36	9	4,053.58	9	4,353.20	9		9		9		9		9		9	
1/4	3,432.12	1/4	3,755.89	1/4	4,059.66	1/4	4,358.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,439.03	1/2	3,762.42	1/2	4,065.74	1/2	4,363.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,445.94	3/4	3,768.96	3/4	4,071.83	3/4	4,367.93	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,452.85	10	3,775.49	10	4,077.91	10		10		10		10		10		10		10	
1/4	3,459.75	1/4	3,781.99	1/4	4,083.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,466.65	1/2	3,788.49	1/2	4,090.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,473.55	3/4	3,794.99	3/4	4,096.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,480.46	11	3,801.49	11	4,102.10	11		11		11		11		11		11		11	
1/4	3,487.33	1/4	3,807.95	1/4	4,108.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,494.21	1/2	3,814.42	1/2	4,114.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,501.09	3/4	3,820.88	3/4	4,120.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	16.19	0	267.97	0	552.28	0	859.92	0	1,188.40	0	1,519.99	0	1,851.57	0	2,183.16	0	2,514.75	0	2,846.33
1/4	19.42	1/4	273.67	1/4	558.47	1/4	866.59	1/4	1,195.30	1/4	1,526.89	1/4	1,858.48	1/4	2,190.07	1/4	2,521.66	1/4	2,853.24
1/2	22.65	1/2	279.37	1/2	564.66	1/2	873.26	1/2	1,202.21	1/2	1,533.80	1/2	1,865.39	1/2	2,196.98	1/2	2,528.57	1/2	2,860.15
3/4	25.88	3/4	285.06	3/4	570.85	3/4	879.93	3/4	1,209.12	3/4	1,540.71	3/4	1,872.30	3/4	2,203.89	3/4	2,535.48	3/4	2,867.05
1	29.11	1	290.76	1	577.04	1	886.60	1	1,216.03	1	1,547.62	1	1,879.21	1	2,210.80	1	2,542.38	1	2,873.96
1/4	34.11	1/4	296.50	1/4	583.27	1/4	893.31	1/4	1,222.94	1/4	1,554.53	1/4	1,886.11	1/4	2,217.70	1/4	2,549.29	1/4	2,880.87
1/2	39.11	1/2	302.24	1/2	589.50	1/2	900.02	1/2	1,229.84	1/2	1,561.43	1/2	1,893.02	1/2	2,224.61	1/2	2,556.20	1/2	2,887.78
3/4	44.11	3/4	307.98	3/4	595.73	3/4	906.73	3/4	1,236.75	3/4	1,568.34	3/4	1,899.93	3/4	2,231.52	3/4	2,563.11	3/4	2,894.68
2	49.11	2	313.71	2	601.96	2	913.44	2	1,243.66	2	1,575.25	2	1,906.84	2	2,238.43	2	2,570.02	2	2,901.59
1/4	54.39	1/4	319.49	1/4	608.23	1/4	920.19	1/4	1,250.57	1/4	1,582.16	1/4	1,913.75	1/4	2,245.34	1/4	2,576.92	1/4	2,908.50
1/2	59.68	1/2	325.27	1/2	614.50	1/2	926.94	1/2	1,257.48	1/2	1,589.07	1/2	1,920.65	1/2	2,252.24	1/2	2,583.83	1/2	2,915.41
3/4	64.97	3/4	331.05	3/4	620.77	3/4	933.69	3/4	1,264.39	3/4	1,595.97	3/4	1,927.56	3/4	2,259.15	3/4	2,590.74	3/4	2,922.31
3	70.25	3	336.83	3	627.05	3	940.44	3	1,271.29	3	1,602.88	3	1,934.47	3	2,266.06	3	2,597.65	3	2,929.22
1/4	75.58	1/4	342.65	1/4	633.36	1/4	947.25	1/4	1,278.20	1/4	1,609.79	1/4	1,941.38	1/4	2,272.97	1/4	2,604.56	1/4	2,936.13
1/2	80.91	1/2	348.47	1/2	639.67	1/2	954.05	1/2	1,285.11	1/2	1,616.70	1/2	1,948.29	1/2	2,279.88	1/2	2,611.46	1/2	2,943.03
3/4	86.24	3/4	354.29	3/4	645.98	3/4	960.86	3/4	1,292.02	3/4	1,623.61	3/4	1,955.20	3/4	2,286.78	3/4	2,618.37	3/4	2,949.94
4	91.57	4	360.11	4	652.30	4	967.67	4	1,298.93	4	1,630.51	4	1,962.10	4	2,293.69	4	2,625.28	4	2,956.85
1/4	96.93	1/4	365.97	1/4	658.65	1/4	974.51	1/4	1,305.83	1/4	1,637.42	1/4	1,969.01	1/4	2,300.60	1/4	2,632.19	1/4	2,963.76
1/2	102.30	1/2	371.84	1/2	665.01	1/2	981.36	1/2	1,312.74	1/2	1,644.33	1/2	1,975.92	1/2	2,307.51	1/2	2,639.10	1/2	2,970.66
3/4	107.67	3/4	377.70	3/4	671.36	3/4	988.21	3/4	1,319.65	3/4	1,651.24	3/4	1,982.83	3/4	2,314.42	3/4	2,646.01	3/4	2,977.57
5	113.04	5	383.56	5	677.71	5	995.05	5	1,326.56	5	1,658.15	5	1,989.74	5	2,321.32	5	2,652.91	5	2,984.48
1/4	118.45	1/4	389.46	1/4	684.11	1/4	1,001.94	1/4	1,333.47	1/4	1,665.06	1/4	1,996.64	1/4	2,328.23	1/4	2,659.82	1/4	2,991.38
1/2	123.86	1/2	395.36	1/2	690.50	1/2	1,008.83	1/2	1,340.37	1/2	1,671.96	1/2	2,003.55	1/2	2,335.14	1/2	2,666.73	1/2	2,998.29
3/4	129.27	3/4	401.27	3/4	696.90	3/4	1,015.71	3/4	1,347.28	3/4	1,678.87	3/4	2,010.46	3/4	2,342.05	3/4	2,673.64	3/4	3,005.20
6	134.68	6	407.17	6	703.29	6	1,022.60	6	1,354.19	6	1,685.78	6	2,017.37	6	2,348.96	6	2,680.55	6	3,012.11
1/4	140.13	1/4	413.11	1/4	709.73	1/4	1,029.51	1/4	1,361.10	1/4	1,692.69	1/4	2,024.28	1/4	2,355.87	1/4	2,687.45	1/4	3,019.01
1/2	145.58	1/2	419.06	1/2	716.16	1/2	1,036.42	1/2	1,368.01	1/2	1,699.60	1/2	2,031.18	1/2	2,362.77	1/2	2,694.36	1/2	3,025.92
3/4	151.03	3/4	425.00	3/4	722.60	3/4	1,043.33	3/4	1,374.92	3/4	1,706.50	3/4	2,038.09	3/4	2,369.68	3/4	2,701.27	3/4	3,032.83
7	156.49	7	430.94	7	729.04	7	1,050.23	7	1,381.82	7	1,713.41	7	2,045.00	7	2,376.59	7	2,708.18	7	3,039.73
1/4	161.98	1/4	436.93	1/4	735.50	1/4	1,057.14	1/4	1,388.73	1/4	1,720.32	1/4	2,051.91	1/4	2,383.50	1/4	2,715.09	1/4	3,046.64
1/2	167.47	1/2	442.91	1/2	741.96	1/2	1,064.05	1/2	1,395.64	1/2	1,727.23	1/2	2,058.82	1/2	2,390.41	1/2	2,721.99	1/2	3,053.55
3/4	172.96	3/4	448.90	3/4	748.43	3/4	1,070.96	3/4	1,402.55	3/4	1,734.14	3/4	2,065.73	3/4	2,397.31	3/4	2,728.90	3/4	3,060.46
8	178.45	8	454.88	8	754.89	8	1,077.87	8	1,409.46	8	1,741.04	8	2,072.63	8	2,404.22	8	2,735.81	8	3,067.36
1/4	183.99	1/4	460.91	1/4	761.40	1/4	1,084.77	1/4	1,416.36	1/4	1,747.95	1/4	2,079.54	1/4	2,411.13	1/4	2,742.72	1/4	3,074.27
1/2	189.52	1/2	466.93	1/2	767.90	1/2	1,091.68	1/2	1,423.27	1/2	1,754.86	1/2	2,086.45	1/2	2,418.04	1/2	2,749.63	1/2	3,081.18
3/4	195.05	3/4	472.96	3/4	774.41	3/4	1,098.59	3/4	1,430.18	3/4	1,761.77	3/4	2,093.36	3/4	2,424.95	3/4	2,756.54	3/4	3,088.09
9	200.59	9	478.98	9	780.91	9	1,105.50	9	1,437.09	9	1,768.68	9	2,100.27	9	2,431.85	9	2,763.44	9	3,094.99
1/4	206.16	1/4	485.05	1/4	787.46	1/4	1,112.41	1/4	1,444.00	1/4	1,775.58	1/4	2,107.17	1/4	2,438.76	1/4	2,770.35	1/4	3,101.90
1/2	211.74	1/2	491.12	1/2	794.00	1/2	1,119.32	1/2	1,450.90	1/2	1,782.49	1/2	2,114.08	1/2	2,445.67	1/2	2,777.26	1/2	3,108.81
3/4	217.31	3/4	497.18	3/4	800.55	3/4	1,126.22	3/4	1,457.81	3/4	1,789.40	3/4	2,120.99	3/4	2,452.58	3/4	2,784.17	3/4	3,115.71
10	222.88	10	503.25	10	807.10	10	1,133.13	10	1,464.72	10	1,796.31	10	2,127.90	10	2,459.49	10	2,791.08	10	3,122.62
1/4	228.50	1/4	509.36	1/4	813.68	1/4	1,140.04	1/4	1,471.63	1/4	1,803.22	1/4	2,134.81	1/4	2,466.39	1/4	2,797.98	1/4	3,129.53
1/2	234.11	1/2	515.47	1/2	820.26	1/2	1,146.95	1/2	1,478.54	1/2	1,810.13	1/2	2,141.71	1/2	2,473.30	1/2	2,804.89	1/2	3,136.44
3/4	239.73	3/4	521.57	3/4	826.84	3/4	1,153.86	3/4	1,485.44	3/4	1,817.03	3/4	2,148.62	3/4	2,480.21	3/4	2,811.80	3/4	3,143.34
11	245.35	11	527.68	11	833.43	11	1,160.76	11	1,492.35	11	1,823.94	11	2,155.53	11	2,487.12	11	2,818.70	11	3,150.25
1/4	251.00	1/4	533.83	1/4	840.05	1/4	1,167.67	1/4	1,499.26	1/4	1,830.85	1/4	2,162.44	1/4	2,494.03	1/4	2,825.61	1/4	3,157.16
1/2	256.66	1/2	539.98	1/2	846.67	1/2	1,174.58	1/2	1,506.17	1/2	1,837.76	1/2	2,169.35	1/2	2,500.94	1/2	2,832.52	1/2	3,164.06
3/4	262.31	3/4	546.13	3/4	853.30	3/4	1,181.49	3/4	1,513.08	3/4	1,844.67	3/4	2,176.25	3/4	2,507.84	3/4	2,839.43	3/4	3,170.97

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 390"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	3,177.88	0	3,509.27	0	3,828.66	0	4,127.45	0		0		0		0		0		0	
1/4	3,184.79	1/4	3,516.12	1/4	3,835.09	1/4	4,133.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,191.69	1/2	3,522.96	1/2	3,841.52	1/2	4,139.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,198.60	3/4	3,529.80	3/4	3,847.95	3/4	4,145.38	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,205.51	1	3,536.65	1	3,854.38	1	4,151.36	1		1		1		1		1		1	
1/4	3,212.41	1/4	3,543.45	1/4	3,860.77	1/4	4,157.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.32	1/2	3,550.26	1/2	3,867.17	1/2	4,163.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.23	3/4	3,557.07	3/4	3,873.57	3/4	4,169.19	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,233.14	2	3,563.88	2	3,879.96	2	4,175.13	2		2		2		2		2		2	
1/4	3,240.04	1/4	3,570.65	1/4	3,886.32	1/4	4,181.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,246.95	1/2	3,577.43	1/2	3,892.68	1/2	4,186.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,253.86	3/4	3,584.20	3/4	3,899.05	3/4	4,192.86	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,260.77	3	3,590.98	3	3,905.41	3	4,198.77	3		3		3		3		3		3	
1/4	3,267.67	1/4	3,597.71	1/4	3,911.74	1/4	4,204.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,274.58	1/2	3,604.45	1/2	3,918.06	1/2	4,210.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.49	3/4	3,611.19	3/4	3,924.39	3/4	4,216.40	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,288.39	4	3,617.93	4	3,930.72	4	4,222.27	4		4		4		4		4		4	
1/4	3,295.30	1/4	3,624.64	1/4	3,937.01	1/4	4,228.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,302.21	1/2	3,631.34	1/2	3,943.30	1/2	4,235.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.12	3/4	3,638.05	3/4	3,949.60	3/4	4,241.36	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,316.02	5	3,644.76	5	3,955.89	5	4,247.72	5		5		5		5		5		5	
1/4	3,322.93	1/4	3,651.43	1/4	3,962.15	1/4	4,254.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,329.84	1/2	3,658.10	1/2	3,968.41	1/2	4,261.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,336.74	3/4	3,664.77	3/4	3,974.67	3/4	4,268.33	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,343.65	6	3,671.44	6	3,980.92	6	4,275.19	6		6		6		6		6		6	
1/4	3,350.56	1/4	3,678.08	1/4	3,987.15	1/4	4,282.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,357.47	1/2	3,684.71	1/2	3,993.37	1/2	4,288.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,364.37	3/4	3,691.35	3/4	3,999.60	3/4	4,295.79	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,371.28	7	3,697.99	7	4,005.82	7	4,302.66	7		7		7		7		7		7	
1/4	3,378.19	1/4	3,704.59	1/4	4,011.97	1/4	4,309.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,385.09	1/2	3,711.19	1/2	4,018.12	1/2	4,316.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,392.00	3/4	3,717.79	3/4	4,024.27	3/4	4,323.04	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,398.91	8	3,724.39	8	4,030.42	8	4,329.83	8		8		8		8		8		8	
1/4	3,405.82	1/4	3,730.96	1/4	4,036.54	1/4	4,336.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,412.72	1/2	3,737.53	1/2	4,042.65	1/2	4,342.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,419.63	3/4	3,744.10	3/4	4,048.77	3/4	4,348.33	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,426.54	9	3,750.67	9	4,054.88	9	4,354.50	9		9		9		9		9		9	
1/4	3,433.45	1/4	3,757.20	1/4	4,060.97	1/4	4,359.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,440.35	1/2	3,763.73	1/2	4,067.05	1/2	4,364.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,447.26	3/4	3,770.27	3/4	4,073.13	3/4	4,369.23	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,454.17	10	3,776.80	10	4,079.21	10		10		10		10		10		10		10	
1/4	3,461.07	1/4	3,783.30	1/4	4,085.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,467.97	1/2	3,789.80	1/2	4,091.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,474.87	3/4	3,796.30	3/4	4,097.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,481.77	11	3,802.80	11	4,103.40	11		11		11		11		11		11		11	
1/4	3,488.64	1/4	3,809.26	1/4	4,109.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,495.52	1/2	3,815.73	1/2	4,115.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,502.40	3/4	3,822.19	3/4	4,121.43	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.87	0	396.71	0	774.67	0	1,157.97	0	1,546.24	0	1,934.52	0	2,322.80	0	2,711.07	0	3,099.35	0	3,487.62
1/4	24.64	1/4	404.79	1/4	782.44	1/4	1,166.06	1/4	1,554.33	1/4	1,942.61	1/4	2,330.89	1/4	2,719.16	1/4	3,107.44	1/4	3,495.70
1/2	30.42	1/2	412.88	1/2	790.21	1/2	1,174.15	1/2	1,562.42	1/2	1,950.70	1/2	2,338.98	1/2	2,727.25	1/2	3,115.53	1/2	3,503.79
3/4	36.20	3/4	420.97	3/4	797.97	3/4	1,182.23	3/4	1,570.51	3/4	1,958.79	3/4	2,347.06	3/4	2,735.34	3/4	3,123.62	3/4	3,511.88
1	41.97	1	429.06	1	805.74	1	1,190.32	1	1,578.60	1	1,966.88	1	2,355.15	1	2,743.43	1	3,131.71	1	3,519.97
1/4	49.77	1/4	437.15	1/4	813.52	1/4	1,198.41	1/4	1,586.69	1/4	1,974.97	1/4	2,363.24	1/4	2,751.52	1/4	3,139.80	1/4	3,528.06
1/2	57.57	1/2	445.24	1/2	821.30	1/2	1,206.50	1/2	1,594.78	1/2	1,983.06	1/2	2,371.33	1/2	2,759.61	1/2	3,147.89	1/2	3,536.14
3/4	65.37	3/4	453.33	3/4	829.07	3/4	1,214.59	3/4	1,602.87	3/4	1,991.14	3/4	2,379.42	3/4	2,767.70	3/4	3,155.97	3/4	3,544.23
2	73.17	2	461.41	2	836.85	2	1,222.68	2	1,610.96	2	1,999.23	2	2,387.51	2	2,775.79	2	3,164.06	2	3,552.32
1/4	81.26	1/4	469.50	1/4	844.63	1/4	1,230.77	1/4	1,619.05	1/4	2,007.32	1/4	2,395.60	1/4	2,783.88	1/4	3,172.15	1/4	3,560.41
1/2	89.35	1/2	477.59	1/2	852.42	1/2	1,238.86	1/2	1,627.13	1/2	2,015.41	1/2	2,403.69	1/2	2,791.97	1/2	3,180.24	1/2	3,568.49
3/4	97.44	3/4	485.68	3/4	860.20	3/4	1,246.95	3/4	1,635.22	3/4	2,023.50	3/4	2,411.78	3/4	2,800.05	3/4	3,188.33	3/4	3,576.58
3	105.52	3	493.77	3	867.98	3	1,255.04	3	1,643.31	3	2,031.59	3	2,419.87	3	2,808.14	3	3,196.42	3	3,584.67
1/4	113.61	1/4	501.86	1/4	875.77	1/4	1,263.13	1/4	1,651.40	1/4	2,039.68	1/4	2,427.96	1/4	2,816.23	1/4	3,204.51	1/4	3,592.76
1/2	121.70	1/2	509.94	1/2	883.55	1/2	1,271.21	1/2	1,659.49	1/2	2,047.77	1/2	2,436.05	1/2	2,824.32	1/2	3,212.60	1/2	3,600.84
3/4	129.79	3/4	518.03	3/4	891.33	3/4	1,279.30	3/4	1,667.58	3/4	2,055.86	3/4	2,444.13	3/4	2,832.41	3/4	3,220.69	3/4	3,608.93
4	137.88	4	526.12	4	899.12	4	1,287.39	4	1,675.67	4	2,063.95	4	2,452.22	4	2,840.50	4	3,228.78	4	3,617.02
1/4	145.97	1/4	533.90	1/4	907.21	1/4	1,295.48	1/4	1,683.76	1/4	2,072.04	1/4	2,460.31	1/4	2,848.59	1/4	3,236.87	1/4	3,625.11
1/2	154.05	1/2	541.67	1/2	915.29	1/2	1,303.57	1/2	1,691.85	1/2	2,080.12	1/2	2,468.40	1/2	2,856.68	1/2	3,244.96	1/2	3,633.20
3/4	162.14	3/4	549.45	3/4	923.38	3/4	1,311.66	3/4	1,699.94	3/4	2,088.21	3/4	2,476.49	3/4	2,864.77	3/4	3,253.04	3/4	3,641.28
5	170.23	5	557.23	5	931.47	5	1,319.75	5	1,708.03	5	2,096.30	5	2,484.58	5	2,872.86	5	3,261.13	5	3,649.37
1/4	178.32	1/4	564.99	1/4	939.56	1/4	1,327.84	1/4	1,716.12	1/4	2,104.39	1/4	2,492.67	1/4	2,880.95	1/4	3,269.22	1/4	3,657.46
1/2	186.41	1/2	572.76	1/2	947.65	1/2	1,335.93	1/2	1,724.20	1/2	2,112.48	1/2	2,500.76	1/2	2,889.03	1/2	3,277.31	1/2	3,665.55
3/4	194.50	3/4	580.53	3/4	955.74	3/4	1,344.02	3/4	1,732.29	3/4	2,120.57	3/4	2,508.85	3/4	2,897.12	3/4	3,285.40	3/4	3,673.63
6	202.58	6	588.30	6	963.83	6	1,352.11	6	1,740.38	6	2,128.66	6	2,516.94	6	2,905.21	6	3,293.49	6	3,681.72
1/4	210.67	1/4	596.06	1/4	971.92	1/4	1,360.19	1/4	1,748.47	1/4	2,136.75	1/4	2,525.03	1/4	2,913.30	1/4	3,301.58	1/4	3,689.81
1/2	218.76	1/2	603.83	1/2	980.01	1/2	1,368.28	1/2	1,756.56	1/2	2,144.84	1/2	2,533.11	1/2	2,921.39	1/2	3,309.67	1/2	3,697.90
3/4	226.85	3/4	611.60	3/4	988.10	3/4	1,376.37	3/4	1,764.65	3/4	2,152.93	3/4	2,541.20	3/4	2,929.48	3/4	3,317.76	3/4	3,705.98
7	234.94	7	619.36	7	996.19	7	1,384.46	7	1,772.74	7	2,161.02	7	2,549.29	7	2,937.57	7	3,325.85	7	3,714.07
1/4	243.03	1/4	627.13	1/4	1,004.27	1/4	1,392.55	1/4	1,780.83	1/4	2,169.10	1/4	2,557.38	1/4	2,945.66	1/4	3,333.94	1/4	3,722.16
1/2	251.12	1/2	634.90	1/2	1,012.36	1/2	1,400.64	1/2	1,788.92	1/2	2,177.19	1/2	2,565.47	1/2	2,953.75	1/2	3,342.02	1/2	3,730.25
3/4	259.20	3/4	642.67	3/4	1,020.45	3/4	1,408.73	3/4	1,797.01	3/4	2,185.28	3/4	2,573.56	3/4	2,961.84	3/4	3,350.11	3/4	3,738.34
8	267.29	8	650.43	8	1,028.54	8	1,416.82	8	1,805.10	8	2,193.37	8	2,581.65	8	2,969.93	8	3,358.20	8	3,746.42
1/4	275.38	1/4	658.20	1/4	1,036.63	1/4	1,424.91	1/4	1,813.18	1/4	2,201.46	1/4	2,589.74	1/4	2,978.01	1/4	3,366.29	1/4	3,754.51
1/2	283.47	1/2	665.96	1/2	1,044.72	1/2	1,433.00	1/2	1,821.27	1/2	2,209.55	1/2	2,597.83	1/2	2,986.10	1/2	3,374.38	1/2	3,762.60
3/4	291.56	3/4	673.72	3/4	1,052.81	3/4	1,441.09	3/4	1,829.36	3/4	2,217.64	3/4	2,605.92	3/4	2,994.19	3/4	3,382.47	3/4	3,770.69
9	299.65	9	681.48	9	1,060.90	9	1,449.17	9	1,837.45	9	2,225.73	9	2,614.01	9	3,002.28	9	3,390.56	9	3,778.77
1/4	307.73	1/4	689.25	1/4	1,068.99	1/4	1,457.26	1/4	1,845.54	1/4	2,233.82	1/4	2,622.09	1/4	3,010.37	1/4	3,398.65	1/4	3,786.86
1/2	315.82	1/2	697.01	1/2	1,077.08	1/2	1,465.35	1/2	1,853.63	1/2	2,241.91	1/2	2,630.18	1/2	3,018.46	1/2	3,406.74	1/2	3,794.95
3/4	323.91	3/4	704.77	3/4	1,085.17	3/4	1,473.44	3/4	1,861.72	3/4	2,250.00	3/4	2,638.27	3/4	3,026.55	3/4	3,414.83	3/4	3,803.04
10	332.00	10	712.54	10	1,093.25	10	1,481.53	10	1,869.81	10	2,258.08	10	2,646.36	10	3,034.64	10	3,422.92	10	3,811.12
1/4	340.09	1/4	720.30	1/4	1,101.34	1/4	1,489.62	1/4	1,877.90	1/4	2,266.17	1/4	2,654.45	1/4	3,042.73	1/4	3,431.00	1/4	3,819.21
1/2	348.18	1/2	728.07	1/2	1,109.43	1/2	1,497.71	1/2	1,885.99	1/2	2,274.26	1/2	2,662.54	1/2	3,050.82	1/2	3,439.09	1/2	3,827.30
3/4	356.26	3/4	735.84	3/4	1,117.52	3/4	1,505.80	3/4	1,894.08	3/4	2,282.35	3/4	2,670.63	3/4	3,058.91	3/4	3,447.18	3/4	3,835.39
11	364.35	11	743.60	11	1,125.61	11	1,513.89	11	1,902.16	11	2,290.44	11	2,678.72	11	3,066.99	11	3,455.27	11	3,843.48
1/4	372.44	1/4	751.37	1/4	1,133.70	1/4	1,521.98	1/4	1,910.25	1/4	2,298.53	1/4	2,686.81	1/4	3,075.08	1/4	3,463.35	1/4	3,851.56
1/2	380.53	1/2	759.14	1/2	1,141.79	1/2	1,530.07	1/2	1,918.34	1/2	2,306.62	1/2	2,694.90	1/2	3,083.17	1/2	3,471.44	1/2	3,859.65
3/4	388.62	3/4	766.90	3/4	1,149.88	3/4	1,538.15	3/4	1,926.43	3/4	2,314.71	3/4	2,702.99	3/4	3,091.26	3/4	3,479.53	3/4	3,867.74

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 390"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,875.83	0	4,263.86	0	4,637.84	0	4,987.68	0		0		0		0		0		0	
1/4	3,883.91	1/4	4,271.88	1/4	4,645.37	1/4	4,994.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,892.00	1/2	4,279.89	1/2	4,652.90	1/2	5,001.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,900.09	3/4	4,287.90	3/4	4,660.42	3/4	5,008.68	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,908.18	1	4,295.91	1	4,667.95	1	5,015.68	1		1		1		1		1		1	
1/4	3,916.26	1/4	4,303.89	1/4	4,675.44	1/4	5,022.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,924.35	1/2	4,311.86	1/2	4,682.93	1/2	5,029.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,932.44	3/4	4,319.83	3/4	4,690.42	3/4	5,036.56	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,940.53	2	4,327.80	2	4,697.91	2	5,043.52	2		2		2		2		2		2	
1/4	3,948.62	1/4	4,335.73	1/4	4,705.36	1/4	5,050.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,956.70	1/2	4,343.67	1/2	4,712.81	1/2	5,057.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,964.79	3/4	4,351.60	3/4	4,720.26	3/4	5,064.28	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,972.88	3	4,359.53	3	4,727.71	3	5,071.19	3		3		3		3		3		3	
1/4	3,980.97	1/4	4,367.42	1/4	4,735.12	1/4	5,078.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,989.05	1/2	4,375.31	1/2	4,742.53	1/2	5,084.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,997.14	3/4	4,383.20	3/4	4,749.93	3/4	5,091.83	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,005.23	4	4,391.10	4	4,757.34	4	5,098.71	4		4		4		4		4		4	
1/4	4,013.32	1/4	4,398.95	1/4	4,764.71	1/4	5,106.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,021.41	1/2	4,406.80	1/2	4,772.08	1/2	5,113.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,029.49	3/4	4,414.65	3/4	4,779.45	3/4	5,121.06	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,037.58	5	4,422.50	5	4,786.82	5	5,128.51	5		5		5		5		5		5	
1/4	4,045.67	1/4	4,430.31	1/4	4,794.15	1/4	5,136.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,053.76	1/2	4,438.12	1/2	4,801.47	1/2	5,144.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,061.84	3/4	4,445.94	3/4	4,808.80	3/4	5,152.63	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,069.93	6	4,453.75	6	4,816.13	6	5,160.67	6		6		6		6		6		6	
1/4	4,078.02	1/4	4,461.52	1/4	4,823.42	1/4	5,168.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,086.11	1/2	4,469.29	1/2	4,830.71	1/2	5,176.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,094.19	3/4	4,477.06	3/4	4,838.00	3/4	5,184.79	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,102.28	7	4,484.83	7	4,845.28	7	5,192.83	7		7		7		7		7		7	
1/4	4,110.37	1/4	4,492.56	1/4	4,852.48	1/4	5,200.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,118.46	1/2	4,500.29	1/2	4,859.68	1/2	5,208.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,126.55	3/4	4,508.02	3/4	4,866.88	3/4	5,216.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,134.63	8	4,515.75	8	4,874.09	8	5,224.65	8		8		8		8		8		8	
1/4	4,142.72	1/4	4,523.44	1/4	4,881.25	1/4	5,231.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,150.81	1/2	4,531.14	1/2	4,888.41	1/2	5,239.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,158.90	3/4	4,538.83	3/4	4,895.57	3/4	5,246.32	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,166.98	9	4,546.52	9	4,902.73	9	5,253.54	9		9		9		9		9		9	
1/4	4,175.07	1/4	4,554.17	1/4	4,909.85	1/4	5,259.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,183.16	1/2	4,561.82	1/2	4,916.97	1/2	5,265.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,191.25	3/4	4,569.47	3/4	4,924.09	3/4	5,270.78	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,199.33	10	4,577.12	10	4,931.21	10		10		10		10		10		10		10	
1/4	4,207.41	1/4	4,584.73	1/4	4,938.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,215.49	1/2	4,592.34	1/2	4,945.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,223.57	3/4	4,599.95	3/4	4,952.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,231.65	11	4,607.56	11	4,959.53	11		11		11		11		11		11		11	
1/4	4,239.70	1/4	4,615.13	1/4	4,966.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,247.76	1/2	4,622.70	1/2	4,973.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,255.81	3/4	4,630.27	3/4	4,980.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	18.88	0	396.88	0	784.99	0	1,173.40	0	1,561.85	0	1,950.30	0	2,338.75	0	2,727.20	0	3,115.65	0	3,504.08
1/4	24.65	1/4	404.98	1/4	793.07	1/4	1,181.49	1/4	1,569.94	1/4	1,958.39	1/4	2,346.84	1/4	2,735.29	1/4	3,123.74	1/4	3,512.18
1/2	30.43	1/2	413.07	1/2	801.15	1/2	1,189.58	1/2	1,578.03	1/2	1,966.48	1/2	2,354.93	1/2	2,743.38	1/2	3,131.83	1/2	3,520.27
3/4	36.21	3/4	421.16	3/4	809.24	3/4	1,197.68	3/4	1,586.13	3/4	1,974.57	3/4	2,363.02	3/4	2,751.47	3/4	3,139.92	3/4	3,528.36
1	41.99	1	429.25	1	817.32	1	1,205.77	1	1,594.22	1	1,982.67	1	2,371.12	1	2,759.57	1	3,148.02	1	3,536.45
1/4	49.79	1/4	437.34	1/4	825.41	1/4	1,213.86	1/4	1,602.31	1/4	1,990.76	1/4	2,379.21	1/4	2,767.66	1/4	3,156.11	1/4	3,544.54
1/2	57.60	1/2	445.44	1/2	833.50	1/2	1,221.95	1/2	1,610.40	1/2	1,998.85	1/2	2,387.30	1/2	2,775.75	1/2	3,164.20	1/2	3,552.63
3/4	65.40	3/4	453.53	3/4	841.60	3/4	1,230.05	3/4	1,618.50	3/4	2,006.95	3/4	2,395.40	3/4	2,783.85	3/4	3,172.29	3/4	3,560.72
2	73.20	2	461.62	2	849.69	2	1,238.14	2	1,626.59	2	2,015.04	2	2,403.49	2	2,791.94	2	3,180.39	2	3,568.82
1/4	81.30	1/4	469.71	1/4	857.78	1/4	1,246.23	1/4	1,634.68	1/4	2,023.13	1/4	2,411.58	1/4	2,800.03	1/4	3,188.48	1/4	3,576.91
1/2	89.39	1/2	477.80	1/2	865.88	1/2	1,254.32	1/2	1,642.77	1/2	2,031.22	1/2	2,419.67	1/2	2,808.12	1/2	3,196.57	1/2	3,585.00
3/4	97.48	3/4	485.90	3/4	873.97	3/4	1,262.42	3/4	1,650.87	3/4	2,039.32	3/4	2,427.77	3/4	2,816.22	3/4	3,204.67	3/4	3,593.09
3	105.57	3	493.99	3	882.06	3	1,270.51	3	1,658.96	3	2,047.41	3	2,435.86	3	2,824.31	3	3,212.76	3	3,601.18
1/4	113.66	1/4	502.08	1/4	890.15	1/4	1,278.60	1/4	1,667.05	1/4	2,055.50	1/4	2,443.95	1/4	2,832.40	1/4	3,220.85	1/4	3,609.27
1/2	121.76	1/2	510.17	1/2	898.25	1/2	1,286.70	1/2	1,675.15	1/2	2,063.59	1/2	2,452.04	1/2	2,840.49	1/2	3,228.94	1/2	3,617.36
3/4	129.85	3/4	518.26	3/4	906.34	3/4	1,294.79	3/4	1,683.24	3/4	2,071.69	3/4	2,460.14	3/4	2,848.59	3/4	3,237.04	3/4	3,625.46
4	137.94	4	526.36	4	914.43	4	1,302.88	4	1,691.33	4	2,079.78	4	2,468.23	4	2,856.68	4	3,245.13	4	3,633.55
1/4	146.03	1/4	534.45	1/4	922.52	1/4	1,310.97	1/4	1,699.42	1/4	2,087.87	1/4	2,476.32	1/4	2,864.77	1/4	3,253.22	1/4	3,641.64
1/2	154.12	1/2	542.54	1/2	930.62	1/2	1,319.07	1/2	1,707.52	1/2	2,095.97	1/2	2,484.42	1/2	2,872.86	1/2	3,261.31	1/2	3,649.73
3/4	162.22	3/4	550.63	3/4	938.71	3/4	1,327.16	3/4	1,715.61	3/4	2,104.06	3/4	2,492.51	3/4	2,880.96	3/4	3,269.41	3/4	3,657.82
5	170.31	5	558.72	5	946.80	5	1,335.25	5	1,723.70	5	2,112.15	5	2,500.60	5	2,889.05	5	3,277.50	5	3,665.91
1/4	178.40	1/4	566.81	1/4	954.89	1/4	1,343.34	1/4	1,731.79	1/4	2,120.24	1/4	2,508.69	1/4	2,897.14	1/4	3,285.59	1/4	3,674.00
1/2	186.49	1/2	574.89	1/2	962.99	1/2	1,351.44	1/2	1,739.89	1/2	2,128.34	1/2	2,516.79	1/2	2,905.24	1/2	3,293.69	1/2	3,682.10
3/4	194.58	3/4	582.97	3/4	971.08	3/4	1,359.53	3/4	1,747.98	3/4	2,136.43	3/4	2,524.88	3/4	2,913.33	3/4	3,301.78	3/4	3,690.19
6	202.68	6	591.05	6	979.17	6	1,367.62	6	1,756.07	6	2,144.52	6	2,532.97	6	2,921.42	6	3,309.87	6	3,698.28
1/4	210.77	1/4	599.13	1/4	987.27	1/4	1,375.72	1/4	1,764.16	1/4	2,152.61	1/4	2,541.06	1/4	2,929.51	1/4	3,317.96	1/4	3,706.37
1/2	218.86	1/2	607.22	1/2	995.36	1/2	1,383.81	1/2	1,772.26	1/2	2,160.71	1/2	2,549.16	1/2	2,937.61	1/2	3,326.06	1/2	3,714.46
3/4	226.95	3/4	615.30	3/4	1,003.45	3/4	1,391.90	3/4	1,780.35	3/4	2,168.80	3/4	2,557.25	3/4	2,945.70	3/4	3,334.15	3/4	3,722.55
7	235.04	7	623.38	7	1,011.54	7	1,399.99	7	1,788.44	7	2,176.89	7	2,565.34	7	2,953.79	7	3,342.24	7	3,730.64
1/4	243.14	1/4	631.46	1/4	1,019.64	1/4	1,408.09	1/4	1,796.54	1/4	2,184.99	1/4	2,573.43	1/4	2,961.88	1/4	3,350.33	1/4	3,738.74
1/2	251.23	1/2	639.55	1/2	1,027.73	1/2	1,416.18	1/2	1,804.63	1/2	2,193.08	1/2	2,581.53	1/2	2,969.98	1/2	3,358.43	1/2	3,746.83
3/4	259.32	3/4	647.63	3/4	1,035.82	3/4	1,424.27	3/4	1,812.72	3/4	2,201.17	3/4	2,589.62	3/4	2,978.07	3/4	3,366.52	3/4	3,754.92
8	267.41	8	655.71	8	1,043.91	8	1,432.36	8	1,820.81	8	2,209.26	8	2,597.71	8	2,986.16	8	3,374.61	8	3,763.01
1/4	275.50	1/4	663.79	1/4	1,052.01	1/4	1,440.46	1/4	1,828.91	1/4	2,217.36	1/4	2,605.81	1/4	2,994.26	1/4	3,382.70	1/4	3,771.10
1/2	283.60	1/2	671.87	1/2	1,060.10	1/2	1,448.55	1/2	1,837.00	1/2	2,225.45	1/2	2,613.90	1/2	3,002.35	1/2	3,390.80	1/2	3,779.19
3/4	291.69	3/4	679.94	3/4	1,068.19	3/4	1,456.64	3/4	1,845.09	3/4	2,233.54	3/4	2,621.99	3/4	3,010.44	3/4	3,398.89	3/4	3,787.28
9	299.78	9	688.02	9	1,076.29	9	1,464.73	9	1,853.18	9	2,241.63	9	2,630.08	9	3,018.53	9	3,406.98	9	3,795.38
1/4	307.87	1/4	696.10	1/4	1,084.38	1/4	1,472.83	1/4	1,861.28	1/4	2,249.73	1/4	2,638.18	1/4	3,026.63	1/4	3,415.08	1/4	3,803.47
1/2	315.96	1/2	704.18	1/2	1,092.47	1/2	1,480.92	1/2	1,869.37	1/2	2,257.82	1/2	2,646.27	1/2	3,034.72	1/2	3,423.17	1/2	3,811.56
3/4	324.06	3/4	712.25	3/4	1,100.56	3/4	1,489.01	3/4	1,877.46	3/4	2,265.91	3/4	2,654.36	3/4	3,042.81	3/4	3,431.26	3/4	3,819.65
10	332.15	10	720.33	10	1,108.66	10	1,497.11	10	1,885.56	10	2,274.00	10	2,662.45	10	3,050.90	10	3,439.35	10	3,827.74
1/4	340.24	1/4	728.41	1/4	1,116.75	1/4	1,505.20	1/4	1,893.65	1/4	2,282.10	1/4	2,670.55	1/4	3,059.00	1/4	3,447.45	1/4	3,835.83
1/2	348.33	1/2	736.50	1/2	1,124.84	1/2	1,513.29	1/2	1,901.74	1/2	2,290.19	1/2	2,678.64	1/2	3,067.09	1/2	3,455.54	1/2	3,843.92
3/4	356.42	3/4	744.58	3/4	1,132.93	3/4	1,521.38	3/4	1,909.83	3/4	2,298.28	3/4	2,686.73	3/4	3,075.18	3/4	3,463.63	3/4	3,852.02
11	364.52	11	752.66	11	1,141.03	11	1,529.48	11	1,917.93	11	2,306.38	11	2,694.83	11	3,083.27	11	3,471.72	11	3,860.11
1/4	372.61	1/4	760.74	1/4	1,149.12	1/4	1,537.57	1/4	1,926.02	1/4	2,314.47	1/4	2,702.92	1/4	3,091.37	1/4	3,479.81	1/4	3,868.20
1/2	380.70	1/2	768.83	1/2	1,157.21	1/2	1,545.66	1/2	1,934.11	1/2	2,322.56	1/2	2,711.01	1/2	3,099.46	1/2	3,487.90	1/2	3,876.29
3/4	388.79	3/4	776.91	3/4	1,165.31	3/4	1,553.75	3/4	1,942.20	3/4	2,330.65	3/4	2,719.10	3/4	3,107.55	3/4	3,495.99	3/4	3,884.38

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 390"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	3,892.47	0	4,280.68	0	4,654.83	0	5,004.83	0		0		0		0		0		0	
1/4	3,900.56	1/4	4,288.70	1/4	4,662.36	1/4	5,011.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.65	1/2	4,296.72	1/2	4,669.89	1/2	5,018.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.75	3/4	4,304.73	3/4	4,677.42	3/4	5,025.84	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,924.84	1	4,312.75	1	4,684.96	1	5,032.84	1		1		1		1		1		1	
1/4	3,932.93	1/4	4,320.72	1/4	4,692.45	1/4	5,039.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.02	1/2	4,328.70	1/2	4,699.94	1/2	5,046.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.11	3/4	4,336.68	3/4	4,707.44	3/4	5,053.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,957.20	2	4,344.65	2	4,714.93	2	5,060.69	2		2		2		2		2		2	
1/4	3,965.29	1/4	4,352.59	1/4	4,722.38	1/4	5,067.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,973.39	1/2	4,360.52	1/2	4,729.83	1/2	5,074.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,981.48	3/4	4,368.46	3/4	4,737.29	3/4	5,081.46	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,989.57	3	4,376.39	3	4,744.74	3	5,088.38	3		3		3		3		3		3	
1/4	3,997.66	1/4	4,384.29	1/4	4,752.15	1/4	5,095.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,005.75	1/2	4,392.18	1/2	4,759.56	1/2	5,102.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,013.84	3/4	4,400.08	3/4	4,766.97	3/4	5,109.02	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,021.93	4	4,407.98	4	4,774.39	4	5,115.91	4		4		4		4		4		4	
1/4	4,030.03	1/4	4,415.83	1/4	4,781.76	1/4	5,123.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,038.12	1/2	4,423.69	1/2	4,789.13	1/2	5,130.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,046.21	3/4	4,431.54	3/4	4,796.50	3/4	5,138.26	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,054.30	5	4,439.40	5	4,803.87	5	5,145.72	5		5		5		5		5		5	
1/4	4,062.39	1/4	4,447.21	1/4	4,811.21	1/4	5,153.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,070.48	1/2	4,455.02	1/2	4,818.54	1/2	5,161.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,078.57	3/4	4,462.84	3/4	4,825.87	3/4	5,169.85	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,086.67	6	4,470.65	6	4,833.20	6	5,177.89	6		6		6		6		6		6	
1/4	4,094.76	1/4	4,478.43	1/4	4,840.49	1/4	5,185.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,102.85	1/2	4,486.20	1/2	4,847.78	1/2	5,193.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,110.94	3/4	4,493.98	3/4	4,855.07	3/4	5,202.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,119.03	7	4,501.75	7	4,862.37	7	5,210.07	7		7		7		7		7		7	
1/4	4,127.12	1/4	4,509.49	1/4	4,869.57	1/4	5,218.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,135.21	1/2	4,517.22	1/2	4,876.77	1/2	5,225.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,143.31	3/4	4,524.95	3/4	4,883.98	3/4	5,233.95	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,151.40	8	4,532.69	8	4,891.18	8	5,241.91	8		8		8		8		8		8	
1/4	4,159.49	1/4	4,540.38	1/4	4,898.34	1/4	5,249.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,167.58	1/2	4,548.08	1/2	4,905.51	1/2	5,256.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,175.67	3/4	4,555.77	3/4	4,912.67	3/4	5,263.58	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,183.76	9	4,563.46	9	4,919.83	9	5,270.80	9		9		9		9		9		9	
1/4	4,191.85	1/4	4,571.12	1/4	4,926.96	1/4	5,276.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,199.95	1/2	4,578.77	1/2	4,934.08	1/2	5,282.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,208.04	3/4	4,586.43	3/4	4,941.21	3/4	5,288.06	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,216.13	10	4,594.08	10	4,948.33	10		10		10		10		10		10		10	
1/4	4,224.21	1/4	4,601.69	1/4	4,955.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,232.29	1/2	4,609.31	1/2	4,962.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,240.38	3/4	4,616.92	3/4	4,969.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,248.46	11	4,624.53	11	4,976.66	11		11		11		11		11		11		11	
1/4	4,256.52	1/4	4,632.11	1/4	4,983.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,264.57	1/2	4,639.68	1/2	4,990.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,272.63	3/4	4,647.25	3/4	4,997.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.58	0	369.02	0	720.83	0	1,076.99	0	1,437.90	0	1,798.63	0	2,158.83	0	2,519.90	0	2,880.98	0	3,241.70
1/4	22.95	1/4	376.54	1/4	728.06	1/4	1,084.51	1/4	1,445.42	1/4	1,806.13	1/4	2,166.35	1/4	2,527.43	1/4	2,888.49	1/4	3,249.22
1/2	28.32	1/2	384.06	1/2	735.30	1/2	1,092.03	1/2	1,452.94	1/2	1,813.63	1/2	2,173.87	1/2	2,534.95	1/2	2,896.01	1/2	3,256.75
3/4	33.69	3/4	391.59	3/4	742.53	3/4	1,099.54	3/4	1,460.46	3/4	1,821.13	3/4	2,181.40	3/4	2,542.47	3/4	2,903.52	3/4	3,264.27
1	39.07	1	399.11	1	749.76	1	1,107.06	1	1,467.98	1	1,828.62	1	2,188.92	1	2,549.99	1	2,911.04	1	3,271.79
1/4	46.32	1/4	406.63	1/4	757.00	1/4	1,114.58	1/4	1,475.50	1/4	1,836.12	1/4	2,196.44	1/4	2,557.52	1/4	2,918.56	1/4	3,279.31
1/2	53.58	1/2	414.16	1/2	764.25	1/2	1,122.10	1/2	1,483.02	1/2	1,843.62	1/2	2,203.96	1/2	2,565.04	1/2	2,926.07	1/2	3,286.83
3/4	60.83	3/4	421.68	3/4	771.49	3/4	1,129.62	3/4	1,490.54	3/4	1,851.12	3/4	2,211.49	3/4	2,572.56	3/4	2,933.59	3/4	3,294.35
2	68.09	2	429.20	2	778.73	2	1,137.14	2	1,498.06	2	1,858.62	2	2,219.01	2	2,580.08	2	2,941.10	2	3,301.88
1/4	75.61	1/4	436.73	1/4	785.97	1/4	1,144.66	1/4	1,505.58	1/4	1,866.12	1/4	2,226.53	1/4	2,587.61	1/4	2,948.62	1/4	3,309.40
1/2	83.13	1/2	444.25	1/2	793.20	1/2	1,152.18	1/2	1,513.10	1/2	1,873.62	1/2	2,234.05	1/2	2,595.13	1/2	2,956.13	1/2	3,316.92
3/4	90.66	3/4	451.77	3/4	800.43	3/4	1,159.70	3/4	1,520.61	3/4	1,881.12	3/4	2,241.58	3/4	2,602.65	3/4	2,963.65	3/4	3,324.44
3	98.18	3	459.30	3	807.66	3	1,167.22	3	1,528.13	3	1,888.62	3	2,249.10	3	2,610.17	3	2,971.16	3	3,331.96
1/4	105.70	1/4	466.82	1/4	814.89	1/4	1,174.74	1/4	1,535.65	1/4	1,896.12	1/4	2,256.62	1/4	2,617.70	1/4	2,978.68	1/4	3,339.48
1/2	113.23	1/2	474.34	1/2	822.13	1/2	1,182.25	1/2	1,543.17	1/2	1,903.62	1/2	2,264.14	1/2	2,625.22	1/2	2,986.19	1/2	3,347.01
3/4	120.75	3/4	481.87	3/4	829.36	3/4	1,189.77	3/4	1,550.69	3/4	1,911.12	3/4	2,271.66	3/4	2,632.74	3/4	2,993.71	3/4	3,354.53
4	128.27	4	489.39	4	836.59	4	1,197.29	4	1,558.21	4	1,918.62	4	2,279.19	4	2,640.26	4	3,001.22	4	3,362.05
1/4	135.80	1/4	496.63	1/4	844.10	1/4	1,204.81	1/4	1,565.73	1/4	1,926.12	1/4	2,286.71	1/4	2,647.78	1/4	3,008.74	1/4	3,369.57
1/2	143.32	1/2	503.87	1/2	851.61	1/2	1,212.33	1/2	1,573.25	1/2	1,933.62	1/2	2,294.23	1/2	2,655.31	1/2	3,016.25	1/2	3,377.09
3/4	150.84	3/4	511.12	3/4	859.12	3/4	1,219.85	3/4	1,580.77	3/4	1,941.12	3/4	2,301.75	3/4	2,662.83	3/4	3,023.77	3/4	3,384.61
5	158.37	5	518.36	5	866.63	5	1,227.37	5	1,588.29	5	1,948.61	5	2,309.28	5	2,670.35	5	3,031.28	5	3,392.14
1/4	165.89	1/4	525.59	1/4	874.14	1/4	1,234.89	1/4	1,595.81	1/4	1,956.11	1/4	2,316.80	1/4	2,677.87	1/4	3,038.80	1/4	3,399.27
1/2	173.41	1/2	532.82	1/2	881.65	1/2	1,242.41	1/2	1,603.32	1/2	1,963.61	1/2	2,324.32	1/2	2,685.40	1/2	3,046.31	1/2	3,404.40
3/4	180.93	3/4	540.06	3/4	889.16	3/4	1,249.93	3/4	1,610.84	3/4	1,971.11	3/4	2,331.84	3/4	2,692.92	3/4	3,053.83	3/4	3,410.53
6	188.46	6	547.29	6	896.67	6	1,257.45	6	1,618.36	6	1,978.61	6	2,339.37	6	2,700.44	6	3,061.34	6	3,416.66
1/4	195.98	1/4	554.52	1/4	904.18	1/4	1,264.96	1/4	1,625.88	1/4	1,986.11	1/4	2,346.89	1/4	2,707.96	1/4	3,068.86	1/4	3,422.79
1/2	203.50	1/2	561.75	1/2	911.69	1/2	1,272.48	1/2	1,633.40	1/2	1,993.61	1/2	2,354.41	1/2	2,715.49	1/2	3,076.37	1/2	3,428.93
3/4	211.03	3/4	568.99	3/4	919.20	3/4	1,280.00	3/4	1,640.92	3/4	2,001.11	3/4	2,361.93	3/4	2,723.01	3/4	3,083.89	3/4	3,435.06
7	218.55	7	576.22	7	926.71	7	1,287.52	7	1,648.44	7	2,008.61	7	2,369.46	7	2,730.53	7	3,091.40	7	3,441.19
1/4	226.07	1/4	583.45	1/4	934.22	1/4	1,295.04	1/4	1,655.96	1/4	2,016.11	1/4	2,376.98	1/4	2,738.05	1/4	3,098.92	1/4	3,447.32
1/2	233.60	1/2	590.68	1/2	941.73	1/2	1,302.56	1/2	1,663.48	1/2	2,023.61	1/2	2,384.50	1/2	2,745.58	1/2	3,106.44	1/2	3,453.45
3/4	241.12	3/4	597.92	3/4	949.24	3/4	1,310.08	3/4	1,671.00	3/4	2,031.11	3/4	2,392.02	3/4	2,753.10	3/4	3,113.95	3/4	3,459.59
8	248.64	8	605.15	8	956.75	8	1,317.60	8	1,678.52	8	2,038.61	8	2,399.55	8	2,760.62	8	3,121.47	8	3,465.72
1/4	256.17	1/4	612.38	1/4	964.26	1/4	1,325.12	1/4	1,686.03	1/4	2,046.11	1/4	2,407.07	1/4	2,768.14	1/4	3,128.98	1/4	3,471.85
1/2	263.69	1/2	619.60	1/2	971.77	1/2	1,332.64	1/2	1,693.55	1/2	2,053.61	1/2	2,414.59	1/2	2,775.67	1/2	3,136.50	1/2	3,477.98
3/4	271.21	3/4	626.83	3/4	979.28	3/4	1,340.16	3/4	1,701.07	3/4	2,061.11	3/4	2,422.11	3/4	2,783.19	3/4	3,144.01	3/4	3,484.11
9	278.74	9	634.06	9	986.79	9	1,347.68	9	1,708.59	9	2,068.61	9	2,429.64	9	2,790.71	9	3,151.53	9	3,490.25
1/4	286.26	1/4	641.29	1/4	994.30	1/4	1,355.19	1/4	1,716.10	1/4	2,076.12	1/4	2,437.16	1/4	2,798.23	1/4	3,159.04	1/4	3,496.38
1/2	293.78	1/2	648.52	1/2	1,001.81	1/2	1,362.71	1/2	1,723.61	1/2	2,083.63	1/2	2,444.68	1/2	2,805.76	1/2	3,166.56	1/2	3,502.51
3/4	301.31	3/4	655.74	3/4	1,009.32	3/4	1,370.23	3/4	1,731.12	3/4	2,091.14	3/4	2,452.20	3/4	2,813.28	3/4	3,174.07	3/4	3,508.64
10	308.83	10	662.97	10	1,016.83	10	1,377.75	10	1,738.63	10	2,098.65	10	2,459.72	10	2,820.80	10	3,181.59	10	3,514.77
1/4	316.35	1/4	670.20	1/4	1,024.35	1/4	1,385.27	1/4	1,746.13	1/4	2,106.17	1/4	2,467.25	1/4	2,828.32	1/4	3,189.10	1/4	3,520.91
1/2	323.88	1/2	677.44	1/2	1,031.87	1/2	1,392.79	1/2	1,753.63	1/2	2,113.69	1/2	2,474.77	1/2	2,835.84	1/2	3,196.62	1/2	3,527.04
3/4	331.40	3/4	684.67	3/4	1,039.39	3/4	1,400.31	3/4	1,761.13	3/4	2,121.22	3/4	2,482.29	3/4	2,843.37	3/4	3,204.13	3/4	3,533.17
11	338.92	11	691.90	11	1,046.91	11	1,407.83	11	1,768.63	11	2,128.74	11	2,489.81	11	2,850.89	11	3,211.65	11	3,539.30
1/4	346.45	1/4	699.13	1/4	1,054.43	1/4	1,415.35	1/4	1,776.13	1/4	2,136.26	1/4	2,497.34	1/4	2,858.41	1/4	3,219.16	1/4	3,545.43
1/2	353.97	1/2	706.37	1/2	1,061.95	1/2	1,422.87	1/2	1,783.63	1/2	2,143.78	1/2	2,504.86	1/2	2,865.93	1/2	3,226.67	1/2	3,551.56
3/4	361.49	3/4	713.60	3/4	1,069.47	3/4	1,430.39	3/4	1,791.13	3/4	2,151.31	3/4	2,512.38	3/4	2,873.46	3/4	3,234.19	3/4	3,557.70

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" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 390"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,563.83	0	3,858.01	0	4,139.10	0	4,397.91	0		0		0		0		0		0	
1/4	3,569.96	1/4	3,864.07	1/4	4,144.71	1/4	4,403.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,576.09	1/2	3,870.13	1/2	4,150.32	1/2	4,408.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,582.22	3/4	3,876.19	3/4	4,155.94	3/4	4,413.30	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,588.36	1	3,882.25	1	4,161.55	1	4,418.42	1		1		1		1		1		1	
1/4	3,594.49	1/4	3,888.28	1/4	4,167.13	1/4	4,423.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,600.62	1/2	3,894.30	1/2	4,172.70	1/2	4,428.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,606.75	3/4	3,900.33	3/4	4,178.28	3/4	4,433.69	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,612.88	2	3,906.35	2	4,183.85	2	4,438.78	2		2		2		2		2		2	
1/4	3,619.02	1/4	3,912.34	1/4	4,189.39	1/4	4,443.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,625.15	1/2	3,918.33	1/2	4,194.93	1/2	4,448.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,631.28	3/4	3,924.31	3/4	4,200.47	3/4	4,453.94	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,637.41	3	3,930.30	3	4,206.00	3	4,459.00	3		3		3		3		3		3	
1/4	3,643.54	1/4	3,936.25	1/4	4,211.51	1/4	4,464.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,649.68	1/2	3,942.20	1/2	4,217.01	1/2	4,469.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,655.81	3/4	3,948.15	3/4	4,222.51	3/4	4,474.04	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,661.94	4	3,954.10	4	4,228.01	4	4,479.06	4		4		4		4		4		4	
1/4	3,668.07	1/4	3,960.01	1/4	4,233.47	1/4	4,484.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.20	1/2	3,965.92	1/2	4,238.93	1/2	4,490.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.33	3/4	3,971.84	3/4	4,244.40	3/4	4,495.70	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,686.47	5	3,977.75	5	4,249.86	5	4,501.24	5		5		5		5		5		5	
1/4	3,692.60	1/4	3,983.62	1/4	4,255.29	1/4	4,507.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.73	1/2	3,989.50	1/2	4,260.71	1/2	4,513.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.86	3/4	3,995.37	3/4	4,266.14	3/4	4,519.53	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,710.99	6	4,001.25	6	4,271.56	6	4,525.62	6		6		6		6		6		6	
1/4	3,717.13	1/4	4,007.08	1/4	4,276.95	1/4	4,531.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,723.26	1/2	4,012.92	1/2	4,282.34	1/2	4,537.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.39	3/4	4,018.76	3/4	4,287.73	3/4	4,543.91	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,735.52	7	4,024.60	7	4,293.12	7	4,550.01	7		7		7		7		7		7	
1/4	3,741.65	1/4	4,030.40	1/4	4,298.43	1/4	4,557.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,747.79	1/2	4,036.20	1/2	4,303.75	1/2	4,564.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,753.92	3/4	4,042.00	3/4	4,309.06	3/4	4,572.20	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,760.05	8	4,047.80	8	4,314.38	8	4,579.60	8		8		8		8		8		8	
1/4	3,766.18	1/4	4,053.56	1/4	4,319.65	1/4	4,586.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,772.31	1/2	4,059.32	1/2	4,324.93	1/2	4,593.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,778.45	3/4	4,065.08	3/4	4,330.21	3/4	4,599.75	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,784.58	9	4,070.85	9	4,335.48	9	4,606.46	9		9		9		9		9		9	
1/4	3,790.71	1/4	4,076.57	1/4	4,340.72	1/4	4,611.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,796.84	1/2	4,082.30	1/2	4,345.96	1/2	4,617.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,802.97	3/4	4,088.02	3/4	4,351.20	3/4	4,622.50	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,809.10	10	4,093.75	10	4,356.44	10		10		10		10		10		10		10	
1/4	3,815.23	1/4	4,099.43	1/4	4,361.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,821.36	1/2	4,105.12	1/2	4,366.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,827.48	3/4	4,110.81	3/4	4,372.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,833.61	11	4,116.50	11	4,377.25	11		11		11		11		11		11		11	
1/4	3,839.71	1/4	4,122.15	1/4	4,382.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,845.81	1/2	4,127.80	1/2	4,387.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,851.91	3/4	4,133.45	3/4	4,392.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	17.57	0	368.33	0	721.20	0	1,077.87	0	1,438.13	0	1,797.65	0	2,155.15	0	2,515.27	0	2,875.57	0	3,235.56
1/4	22.94	1/4	375.84	1/4	728.48	1/4	1,085.38	1/4	1,445.64	1/4	1,805.08	1/4	2,162.65	1/4	2,522.77	1/4	2,883.07	1/4	3,243.07
1/2	28.31	1/2	383.35	1/2	735.75	1/2	1,092.88	1/2	1,453.14	1/2	1,812.52	1/2	2,170.16	1/2	2,530.27	1/2	2,890.57	1/2	3,250.58
3/4	33.68	3/4	390.85	3/4	743.02	3/4	1,100.39	3/4	1,460.65	3/4	1,819.95	3/4	2,177.67	3/4	2,537.76	3/4	2,898.07	3/4	3,258.08
1	39.05	1	398.36	1	750.30	1	1,107.90	1	1,468.15	1	1,827.38	1	2,185.18	1	2,545.26	1	2,905.57	1	3,265.59
1/4	46.29	1/4	405.87	1/4	757.58	1/4	1,115.40	1/4	1,475.66	1/4	1,834.81	1/4	2,192.69	1/4	2,552.77	1/4	2,913.07	1/4	3,273.10
1/2	53.53	1/2	413.38	1/2	764.86	1/2	1,122.91	1/2	1,483.17	1/2	1,842.24	1/2	2,200.20	1/2	2,560.28	1/2	2,920.57	1/2	3,280.60
3/4	60.77	3/4	420.89	3/4	772.15	3/4	1,130.41	3/4	1,490.67	3/4	1,849.67	3/4	2,207.71	3/4	2,567.78	3/4	2,928.07	3/4	3,288.11
2	68.01	2	428.39	2	779.43	2	1,137.92	2	1,498.18	2	1,857.11	2	2,215.22	2	2,575.29	2	2,935.57	2	3,295.62
1/4	75.51	1/4	435.90	1/4	786.71	1/4	1,145.42	1/4	1,505.68	1/4	1,864.54	1/4	2,222.72	1/4	2,582.80	1/4	2,943.07	1/4	3,303.12
1/2	83.02	1/2	443.41	1/2	794.00	1/2	1,152.93	1/2	1,513.19	1/2	1,871.97	1/2	2,230.23	1/2	2,590.30	1/2	2,950.57	1/2	3,310.63
3/4	90.53	3/4	450.92	3/4	801.28	3/4	1,160.43	3/4	1,520.69	3/4	1,879.40	3/4	2,237.74	3/4	2,597.81	3/4	2,958.07	3/4	3,318.14
3	98.04	3	458.43	3	808.57	3	1,167.94	3	1,528.20	3	1,886.83	3	2,245.25	3	2,605.32	3	2,965.57	3	3,325.64
1/4	105.55	1/4	465.94	1/4	815.85	1/4	1,175.44	1/4	1,535.70	1/4	1,894.26	1/4	2,252.76	1/4	2,612.83	1/4	2,973.07	1/4	3,333.15
1/2	113.05	1/2	473.44	1/2	823.13	1/2	1,182.95	1/2	1,543.21	1/2	1,901.70	1/2	2,260.27	1/2	2,620.33	1/2	2,980.57	1/2	3,340.65
3/4	120.56	3/4	480.95	3/4	830.42	3/4	1,190.45	3/4	1,550.71	3/4	1,909.13	3/4	2,267.78	3/4	2,627.84	3/4	2,988.07	3/4	3,348.16
4	128.07	4	488.46	4	837.70	4	1,197.96	4	1,558.22	4	1,916.56	4	2,275.28	4	2,635.35	4	2,995.57	4	3,355.67
1/4	135.58	1/4	495.74	1/4	845.21	1/4	1,205.47	1/4	1,565.72	1/4	1,923.99	1/4	2,282.79	1/4	2,642.85	1/4	3,003.07	1/4	3,363.17
1/2	143.09	1/2	503.02	1/2	852.71	1/2	1,212.97	1/2	1,573.23	1/2	1,931.42	1/2	2,290.30	1/2	2,650.36	1/2	3,010.57	1/2	3,370.68
3/4	150.60	3/4	510.31	3/4	860.22	3/4	1,220.48	3/4	1,580.74	3/4	1,938.85	3/4	2,297.81	3/4	2,657.87	3/4	3,018.07	3/4	3,378.19
5	158.10	5	517.59	5	867.72	5	1,227.98	5	1,588.24	5	1,946.29	5	2,305.32	5	2,665.38	5	3,025.57	5	3,385.69
1/4	165.61	1/4	524.86	1/4	875.23	1/4	1,235.49	1/4	1,595.75	1/4	1,953.72	1/4	2,312.82	1/4	2,672.88	1/4	3,033.07	1/4	3,391.82
1/2	173.12	1/2	532.13	1/2	882.73	1/2	1,242.99	1/2	1,603.25	1/2	1,961.15	1/2	2,320.32	1/2	2,680.39	1/2	3,040.57	1/2	3,397.95
3/4	180.63	3/4	539.41	3/4	890.24	3/4	1,250.50	3/4	1,610.76	3/4	1,968.58	3/4	2,327.81	3/4	2,687.90	3/4	3,048.07	3/4	3,404.08
6	188.14	6	546.68	6	897.74	6	1,258.00	6	1,618.26	6	1,976.01	6	2,335.31	6	2,695.40	6	3,055.57	6	3,410.21
1/4	195.64	1/4	553.95	1/4	905.25	1/4	1,265.51	1/4	1,625.77	1/4	1,983.44	1/4	2,342.81	1/4	2,702.91	1/4	3,063.07	1/4	3,416.34
1/2	203.15	1/2	561.23	1/2	912.75	1/2	1,273.01	1/2	1,633.27	1/2	1,990.88	1/2	2,350.31	1/2	2,710.42	1/2	3,070.57	1/2	3,422.47
3/4	210.66	3/4	568.50	3/4	920.26	3/4	1,280.52	3/4	1,640.78	3/4	1,998.31	3/4	2,357.81	3/4	2,717.93	3/4	3,078.07	3/4	3,428.60
7	218.17	7	575.77	7	927.77	7	1,288.02	7	1,648.28	7	2,005.74	7	2,365.31	7	2,725.43	7	3,085.57	7	3,434.73
1/4	225.68	1/4	583.05	1/4	935.27	1/4	1,295.53	1/4	1,655.79	1/4	2,013.17	1/4	2,372.80	1/4	2,732.94	1/4	3,093.07	1/4	3,440.86
1/2	233.18	1/2	590.32	1/2	942.78	1/2	1,303.04	1/2	1,663.29	1/2	2,020.60	1/2	2,380.30	1/2	2,740.45	1/2	3,100.57	1/2	3,446.99
3/4	240.69	3/4	597.59	3/4	950.28	3/4	1,310.54	3/4	1,670.80	3/4	2,028.03	3/4	2,387.80	3/4	2,747.95	3/4	3,108.07	3/4	3,453.12
8	248.20	8	604.87	8	957.79	8	1,318.05	8	1,678.31	8	2,035.47	8	2,395.30	8	2,755.46	8	3,115.57	8	3,459.25
1/4	255.71	1/4	612.14	1/4	965.29	1/4	1,325.55	1/4	1,685.81	1/4	2,042.90	1/4	2,402.80	1/4	2,762.97	1/4	3,123.07	1/4	3,465.37
1/2	263.22	1/2	619.40	1/2	972.80	1/2	1,333.06	1/2	1,693.32	1/2	2,050.33	1/2	2,410.29	1/2	2,770.47	1/2	3,130.57	1/2	3,471.50
3/4	270.72	3/4	626.67	3/4	980.30	3/4	1,340.56	3/4	1,700.82	3/4	2,057.76	3/4	2,417.79	3/4	2,777.98	3/4	3,138.07	3/4	3,477.63
9	278.23	9	633.94	9	987.81	9	1,348.07	9	1,708.33	9	2,065.19	9	2,425.29	9	2,785.49	9	3,145.57	9	3,483.76
1/4	285.74	1/4	641.21	1/4	995.31	1/4	1,355.57	1/4	1,715.80	1/4	2,072.66	1/4	2,432.79	1/4	2,793.00	1/4	3,153.07	1/4	3,489.89
1/2	293.25	1/2	648.48	1/2	1,002.82	1/2	1,363.08	1/2	1,723.26	1/2	2,080.13	1/2	2,440.29	1/2	2,800.50	1/2	3,160.57	1/2	3,496.02
3/4	300.76	3/4	655.75	3/4	1,010.33	3/4	1,370.58	3/4	1,730.73	3/4	2,087.61	3/4	2,447.79	3/4	2,808.01	3/4	3,168.07	3/4	3,502.15
10	308.27	10	663.02	10	1,017.83	10	1,378.09	10	1,738.20	10	2,095.08	10	2,455.28	10	2,815.52	10	3,175.57	10	3,508.28
1/4	315.77	1/4	670.29	1/4	1,025.34	1/4	1,385.60	1/4	1,745.63	1/4	2,102.58	1/4	2,462.78	1/4	2,823.02	1/4	3,183.07	1/4	3,514.41
1/2	323.28	1/2	677.56	1/2	1,032.84	1/2	1,393.10	1/2	1,753.06	1/2	2,110.09	1/2	2,470.28	1/2	2,830.53	1/2	3,190.57	1/2	3,520.54
3/4	330.79	3/4	684.84	3/4	1,040.35	3/4	1,400.61	3/4	1,760.49	3/4	2,117.60	3/4	2,477.78	3/4	2,838.04	3/4	3,198.07	3/4	3,526.67
11	338.30	11	692.11	11	1,047.85	11	1,408.11	11	1,767.93	11	2,125.11	11	2,485.28	11	2,845.55	11	3,205.57	11	3,532.80
1/4	345.81	1/4	699.38	1/4	1,055.36	1/4	1,415.62	1/4	1,775.36	1/4	2,132.62	1/4	2,492.77	1/4	2,853.05	1/4	3,213.07	1/4	3,538.93
1/2	353.31	1/2	706.66	1/2	1,062.86	1/2	1,423.12	1/2	1,782.79	1/2	2,140.13	1/2	2,500.27	1/2	2,860.56	1/2	3,220.57	1/2	3,545.06
3/4	360.82	3/4	713.93	3/4	1,070.37	3/4	1,430.63	3/4	1,790.22	3/4	2,147.64	3/4	2,507.77	3/4	2,868.07	3/4	3,228.07	3/4	3,551.19

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" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 390"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	3,557.32	0	3,851.36	0	4,132.34	0	4,391.06	0		0		0		0		0		0	
1/4	3,563.45	1/4	3,857.42	1/4	4,137.95	1/4	4,396.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,569.57	1/2	3,863.48	1/2	4,143.56	1/2	4,401.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,575.70	3/4	3,869.54	3/4	4,149.17	3/4	4,406.43	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,581.83	1	3,875.60	1	4,154.78	1	4,411.56	1		1		1		1		1		1	
1/4	3,587.96	1/4	3,881.62	1/4	4,160.36	1/4	4,416.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,594.09	1/2	3,887.65	1/2	4,165.93	1/2	4,421.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,600.22	3/4	3,893.67	3/4	4,171.50	3/4	4,426.82	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,606.35	2	3,899.69	2	4,177.08	2	4,431.91	2		2		2		2		2		2	
1/4	3,612.48	1/4	3,905.67	1/4	4,182.61	1/4	4,436.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,618.61	1/2	3,911.66	1/2	4,188.15	1/2	4,442.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,624.74	3/4	3,917.64	3/4	4,193.68	3/4	4,447.06	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,630.87	3	3,923.63	3	4,199.22	3	4,452.12	3		3		3		3		3		3	
1/4	3,637.00	1/4	3,929.57	1/4	4,204.72	1/4	4,457.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,643.13	1/2	3,935.52	1/2	4,210.22	1/2	4,462.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,649.26	3/4	3,941.47	3/4	4,215.72	3/4	4,467.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,655.39	4	3,947.42	4	4,221.21	4	4,472.17	4		4		4		4		4		4	
1/4	3,661.52	1/4	3,953.33	1/4	4,226.67	1/4	4,477.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,667.65	1/2	3,959.24	1/2	4,232.14	1/2	4,483.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,673.77	3/4	3,965.15	3/4	4,237.60	3/4	4,488.80	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,679.90	5	3,971.06	5	4,243.06	5	4,494.35	5		5		5		5		5		5	
1/4	3,686.03	1/4	3,976.93	1/4	4,248.48	1/4	4,500.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,692.16	1/2	3,982.80	1/2	4,253.91	1/2	4,506.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.29	3/4	3,988.67	3/4	4,259.33	3/4	4,512.62	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,704.42	6	3,994.54	6	4,264.75	6	4,518.72	6		6		6		6		6		6	
1/4	3,710.55	1/4	4,000.38	1/4	4,270.14	1/4	4,524.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.68	1/2	4,006.21	1/2	4,275.53	1/2	4,530.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.81	3/4	4,012.05	3/4	4,280.91	3/4	4,537.00	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,728.94	7	4,017.88	7	4,286.30	7	4,543.09	7		7		7		7		7		7	
1/4	3,735.07	1/4	4,023.68	1/4	4,291.61	1/4	4,550.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.20	1/2	4,029.48	1/2	4,296.92	1/2	4,557.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,747.33	3/4	4,035.28	3/4	4,302.24	3/4	4,565.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,753.46	8	4,041.07	8	4,307.55	8	4,572.67	8		8		8		8		8		8	
1/4	3,759.59	1/4	4,046.83	1/4	4,312.82	1/4	4,579.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.72	1/2	4,052.59	1/2	4,318.10	1/2	4,586.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.84	3/4	4,058.35	3/4	4,323.37	3/4	4,592.80	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,777.97	9	4,064.12	9	4,328.65	9	4,599.51	9		9		9		9		9		9	
1/4	3,784.10	1/4	4,069.84	1/4	4,333.89	1/4	4,604.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,790.23	1/2	4,075.56	1/2	4,339.13	1/2	4,610.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,796.36	3/4	4,081.28	3/4	4,344.36	3/4	4,615.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,802.49	10	4,087.01	10	4,349.60	10		10		10		10		10		10		10	
1/4	3,808.61	1/4	4,092.69	1/4	4,354.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,814.74	1/2	4,098.38	1/2	4,360.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,820.86	3/4	4,104.06	3/4	4,365.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,826.98	11	4,109.75	11	4,370.40	11		11		11		11		11		11		11	
1/4	3,833.07	1/4	4,115.40	1/4	4,375.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,839.17	1/2	4,121.04	1/2	4,380.73	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,845.27	3/4	4,126.69	3/4	4,385.89	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

ULLAGE 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	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-4/8	- 01-4/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-3/8	- 01-3/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(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 - 00-1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

February 18, 2015

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

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BARGE "EMS 390"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,246.43	0	3,954.59	0	3,643.45	0	3,314.71	0	2,983.17	0	2,651.61	0	2,320.02		
1/4		1/4		1/4		1/4	4,240.07	1/4	3,948.29	1/4	3,636.74	1/4	3,307.80	1/4	2,976.26	1/4	2,644.70	1/4	2,313.11		
1/2		1/2		1/2		1/2	4,233.71	1/2	3,942.00	1/2	3,630.04	1/2	3,300.89	1/2	2,969.35	1/2	2,637.79	1/2	2,306.20		
3/4		3/4		3/4		3/4	4,227.34	3/4	3,935.71	3/4	3,623.33	3/4	3,293.99	3/4	2,962.45	3/4	2,630.88	3/4	2,299.29		
1		1		1		1	4,220.98	1	3,929.42	1	3,616.63	1	3,287.08	1	2,955.54	1	2,623.97	1	2,292.38		
1/4		1/4		1/4		1/4	4,215.11	1/4	3,923.09	1/4	3,609.89	1/4	3,280.17	1/4	2,948.63	1/4	2,617.07	1/4	2,285.48		
1/2		1/2		1/2		1/2	4,209.23	1/2	3,916.76	1/2	3,603.15	1/2	3,273.26	1/2	2,941.72	1/2	2,610.16	1/2	2,278.57		
3/4		3/4		3/4		3/4	4,203.36	3/4	3,910.43	3/4	3,596.41	3/4	3,266.36	3/4	2,934.82	3/4	2,603.25	3/4	2,271.66		
2		2		2		2	4,197.48	2	3,904.11	2	3,589.67	2	3,259.45	2	2,927.91	2	2,596.34	2	2,264.75		
1/4		1/4		1/4		1/4	4,191.57	1/4	3,897.74	1/4	3,582.89	1/4	3,252.54	1/4	2,921.00	1/4	2,589.43	1/4	2,257.84		
1/2		1/2		1/2		1/2	4,185.66	1/2	3,891.38	1/2	3,576.12	1/2	3,245.64	1/2	2,914.10	1/2	2,582.52	1/2	2,250.94		
3/4		3/4		3/4		3/4	4,179.75	3/4	3,885.02	3/4	3,569.35	3/4	3,238.73	3/4	2,907.19	3/4	2,575.62	3/4	2,244.03		
3		3		3		3	4,173.84	3	3,878.66	3	3,562.57	3	3,231.82	3	2,900.28	3	2,568.71	3	2,237.12		
1/4		1/4		1/4		1/4	4,167.90	1/4	3,872.26	1/4	3,555.76	1/4	3,224.91	1/4	2,893.37	1/4	2,561.80	1/4	2,230.21		
1/2		1/2		1/2		1/2	4,161.95	1/2	3,865.87	1/2	3,548.95	1/2	3,218.01	1/2	2,886.47	1/2	2,554.89	1/2	2,223.30		
3/4		3/4		3/4		3/4	4,156.01	3/4	3,859.47	3/4	3,542.15	3/4	3,211.10	3/4	2,879.56	3/4	2,547.98	3/4	2,216.40		
4		4		4		4	4,150.06	4	3,853.07	4	3,535.34	4	3,204.19	4	2,872.65	4	2,541.08	4	2,209.49		
1/4		1/4		1/4		1/4	4,144.09	1/4	3,846.64	1/4	3,528.50	1/4	3,197.29	1/4	2,865.75	1/4	2,534.17	1/4	2,202.58		
1/2		1/2		1/2		1/2	4,138.11	1/2	3,840.21	1/2	3,521.65	1/2	3,190.38	1/2	2,858.84	1/2	2,527.26	1/2	2,195.67		
3/4		3/4		3/4		3/4	4,132.13	3/4	3,833.78	3/4	3,514.81	3/4	3,183.47	3/4	2,851.93	3/4	2,520.35	3/4	2,188.76		
5		5		5		5	4,126.15	5	3,827.35	5	3,507.97	5	3,176.57	5	2,845.02	5	2,513.44	5	2,181.85		
1/4		1/4		1/4		1/4	4,120.14	1/4	3,820.89	1/4	3,501.09	1/4	3,169.66	1/4	2,838.12	1/4	2,506.54	1/4	2,174.95		
1/2		1/2		1/2		1/2	4,114.13	1/2	3,814.42	1/2	3,494.21	1/2	3,162.75	1/2	2,831.21	1/2	2,499.63	1/2	2,168.04		
3/4		3/4		3/4		3/4	4,108.11	3/4	3,807.96	3/4	3,487.34	3/4	3,155.84	3/4	2,824.30	3/4	2,492.72	3/4	2,161.13		
6		6		6		6	4,102.10	6	3,801.49	6	3,480.46	6	3,148.94	6	2,817.40	6	2,485.81	6	2,154.22		
1/4		1/4		1/4		1/4	4,096.05	1/4	3,794.99	1/4	3,473.56	1/4	3,142.03	1/4	2,810.49	1/4	2,478.90	1/4	2,147.31		
1/2		1/2		1/2		1/2	4,090.01	1/2	3,788.49	1/2	3,466.65	1/2	3,135.12	1/2	2,803.58	1/2	2,471.99	1/2	2,140.41		
3/4		3/4		3/4		3/4	4,083.96	3/4	3,781.99	3/4	3,459.75	3/4	3,128.22	3/4	2,796.67	3/4	2,465.09	3/4	2,133.50		
7		7		7		7	4,077.91	7	3,775.49	7	3,452.85	7	3,121.31	7	2,789.77	7	2,458.18	7	2,126.59		
1/4		1/4		1/4		1/4	4,367.93	1/4	4,071.83	1/4	3,768.96	1/4	3,445.94	1/4	3,114.40	1/4	2,782.86	1/4	2,451.27	1/4	2,119.68
1/2		1/2		1/2		1/2	4,363.02	1/2	4,065.75	1/2	3,762.43	1/2	3,439.03	1/2	3,107.49	1/2	2,775.95	1/2	2,444.36	1/2	2,112.77
3/4		3/4		3/4		3/4	4,358.11	3/4	4,059.67	3/4	3,755.89	3/4	3,432.13	3/4	3,100.59	3/4	2,769.04	3/4	2,437.45	3/4	2,105.87
8		8		8		8	4,353.20	8	4,053.59	8	3,749.36	8	3,425.22	8	3,093.68	8	2,762.14	8	2,430.55	8	2,098.96
1/4		1/4		1/4		1/4	4,347.04	1/4	4,047.47	1/4	3,742.79	1/4	3,418.31	1/4	3,086.77	1/4	2,755.23	1/4	2,423.64	1/4	2,092.05
1/2		1/2		1/2		1/2	4,340.87	1/2	4,041.35	1/2	3,736.22	1/2	3,411.41	1/2	3,079.87	1/2	2,748.32	1/2	2,416.73	1/2	2,085.14
3/4		3/4		3/4		3/4	4,334.71	3/4	4,035.24	3/4	3,729.66	3/4	3,404.50	3/4	3,072.96	3/4	2,741.41	3/4	2,409.82	3/4	2,078.23
9		9		9		9	4,328.54	9	4,029.12	9	3,723.09	9	3,397.59	9	3,066.05	9	2,734.50	9	2,402.91	9	2,071.33
1/4		1/4		1/4		1/4	4,321.75	1/4	4,022.97	1/4	3,716.49	1/4	3,390.69	1/4	3,059.14	1/4	2,727.59	1/4	2,396.01	1/4	2,064.42
1/2		1/2		1/2		1/2	4,314.96	1/2	4,016.82	1/2	3,709.88	1/2	3,383.78	1/2	3,052.24	1/2	2,720.69	1/2	2,389.10	1/2	2,057.51
3/4		3/4		3/4		3/4	4,308.16	3/4	4,010.67	3/4	3,703.28	3/4	3,376.87	3/4	3,045.33	3/4	2,713.78	3/4	2,382.19	3/4	2,050.60
10		10		10		10	4,301.37	10	4,004.52	10	3,696.68	10	3,369.96	10	3,038.42	10	2,706.87	10	2,375.28	10	2,043.69
1/4		1/4		1/4		1/4	4,294.50	1/4	3,998.30	1/4	3,690.04	1/4	3,363.06	1/4	3,031.52	1/4	2,699.96	1/4	2,368.37	1/4	2,036.78
1/2		1/2		1/2		1/2	4,287.64	1/2	3,992.07	1/2	3,683.41	1/2	3,356.15	1/2	3,024.61	1/2	2,693.05	1/2	2,361.47	1/2	2,029.88
3/4		3/4		3/4		3/4	4,280.77	3/4	3,985.85	3/4	3,676.77	3/4	3,349.24	3/4	3,017.70	3/4	2,686.15	3/4	2,354.56	3/4	2,022.97
11		11		11		11	4,273.90	11	3,979.62	11	3,670.13	11	3,342.34	11	3,010.79	11	2,679.24	11	2,347.65	11	2,016.06
1/4		1/4		1/4		1/4	4,267.03	1/4	3,973.36	1/4	3,663.46	1/4	3,335.43	1/4	3,003.89	1/4	2,672.33	1/4	2,340.74	1/4	2,009.15
1/2		1/2		1/2		1/2	4,260.17	1/2	3,967.11	1/2	3,656.79	1/2	3,328.52	1/2	2,996.98	1/2	2,665.42	1/2	2,333.83	1/2	2,002.24
3/4		3/4		3/4		3/4	4,253.30	3/4	3,960.85	3/4	3,650.12	3/4	3,321.61	3/4	2,990.07	3/4	2,658.51	3/4	2,326.92	3/4	1,995.34

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 390"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,988.43	0	1,656.84	0	1,325.25	0	993.74	0	677.75	0	383.59	0	113.05	0		0		0	
1/4	1,981.52	1/4	1,649.93	1/4	1,318.34	1/4	986.92	1/4	671.40	1/4	377.72	1/4	107.68	1/4		1/4		1/4	
1/2	1,974.61	1/2	1,643.02	1/2	1,311.43	1/2	980.10	1/2	665.04	1/2	371.86	1/2	102.31	1/2		1/2		1/2	
3/4	1,967.70	3/4	1,636.11	3/4	1,304.53	3/4	973.28	3/4	658.69	3/4	366.00	3/4	96.94	3/4		3/4		3/4	
1	1,960.80	1	1,629.21	1	1,297.62	1	966.46	1	652.33	1	360.14	1	91.58	1		1		1	
1/4	1,953.89	1/4	1,622.30	1/4	1,290.71	1/4	959.67	1/4	646.02	1/4	354.32	1/4	86.25	1/4		1/4		1/4	
1/2	1,946.98	1/2	1,615.39	1/2	1,283.80	1/2	952.89	1/2	639.71	1/2	348.50	1/2	80.92	1/2		1/2		1/2	
3/4	1,940.07	3/4	1,608.48	3/4	1,276.89	3/4	946.11	3/4	633.40	3/4	342.68	3/4	75.59	3/4		3/4		3/4	
2	1,933.16	2	1,601.57	2	1,269.99	2	939.33	2	627.08	2	336.86	2	70.26	2		2		2	
1/4	1,926.26	1/4	1,594.67	1/4	1,263.08	1/4	932.61	1/4	620.81	1/4	331.08	1/4	64.97	1/4		1/4		1/4	
1/2	1,919.35	1/2	1,587.76	1/2	1,256.17	1/2	925.89	1/2	614.54	1/2	325.30	1/2	59.69	1/2		1/2		1/2	
3/4	1,912.44	3/4	1,580.85	3/4	1,249.26	3/4	919.17	3/4	608.27	3/4	319.52	3/4	54.40	3/4		3/4		3/4	
3	1,905.53	3	1,573.94	3	1,242.35	3	912.44	3	601.99	3	313.74	3	49.11	3		3		3	
1/4	1,898.62	1/4	1,567.03	1/4	1,235.44	1/4	905.76	1/4	595.76	1/4	308.00	1/4	44.11	1/4		1/4		1/4	
1/2	1,891.71	1/2	1,560.13	1/2	1,228.54	1/2	899.08	1/2	589.53	1/2	302.26	1/2	39.11	1/2		1/2		1/2	
3/4	1,884.81	3/4	1,553.22	3/4	1,221.63	3/4	892.40	3/4	583.30	3/4	296.52	3/4	34.11	3/4		3/4		3/4	
4	1,877.90	4	1,546.31	4	1,214.72	4	885.72	4	577.07	4	290.78	4	29.11	4		4		4	
1/4	1,870.99	1/4	1,539.40	1/4	1,207.81	1/4	879.08	1/4	570.88	1/4	285.09	1/4	25.88	1/4		1/4		1/4	
1/2	1,864.08	1/2	1,532.49	1/2	1,200.90	1/2	872.44	1/2	564.69	1/2	279.39	1/2	22.65	1/2		1/2		1/2	
3/4	1,857.17	3/4	1,525.59	3/4	1,194.00	3/4	865.80	3/4	558.50	3/4	273.69	3/4	19.42	3/4		3/4		3/4	
5	1,850.27	5	1,518.68	5	1,187.09	5	859.16	5	552.31	5	267.99	5	16.19	5		5		5	
1/4	1,843.36	1/4	1,511.77	1/4	1,180.18	1/4	852.56	1/4	546.16	1/4	262.34	1/4		1/4		1/4		1/4	
1/2	1,836.45	1/2	1,504.86	1/2	1,173.27	1/2	845.97	1/2	540.01	1/2	256.68	1/2		1/2		1/2		1/2	
3/4	1,829.54	3/4	1,497.95	3/4	1,166.36	3/4	839.37	3/4	533.86	3/4	251.02	3/4		3/4		3/4		3/4	
6	1,822.63	6	1,491.04	6	1,159.46	6	832.78	6	527.72	6	245.37	6		6		6		6	
1/4	1,815.73	1/4	1,484.14	1/4	1,152.55	1/4	826.22	1/4	521.61	1/4	239.75	1/4		1/4		1/4		1/4	
1/2	1,808.82	1/2	1,477.23	1/2	1,145.64	1/2	819.67	1/2	515.50	1/2	234.14	1/2		1/2		1/2		1/2	
3/4	1,801.91	3/4	1,470.32	3/4	1,138.73	3/4	813.11	3/4	509.39	3/4	228.52	3/4		3/4		3/4		3/4	
7	1,795.00	7	1,463.41	7	1,131.82	7	806.56	7	503.28	7	222.90	7		7		7		7	
1/4	1,788.09	1/4	1,456.50	1/4	1,124.92	1/4	800.04	1/4	497.22	1/4	217.33	1/4		1/4		1/4		1/4	
1/2	1,781.18	1/2	1,449.60	1/2	1,118.01	1/2	793.53	1/2	491.15	1/2	211.75	1/2		1/2		1/2		1/2	
3/4	1,774.28	3/4	1,442.69	3/4	1,111.10	3/4	787.01	3/4	485.08	3/4	206.18	3/4		3/4		3/4		3/4	
8	1,767.37	8	1,435.78	8	1,104.19	8	780.49	8	479.02	8	200.61	8		8		8		8	
1/4	1,760.46	1/4	1,428.87	1/4	1,097.28	1/4	774.01	1/4	472.99	1/4	195.07	1/4		1/4		1/4		1/4	
1/2	1,753.55	1/2	1,421.96	1/2	1,090.37	1/2	767.54	1/2	466.96	1/2	189.54	1/2		1/2		1/2		1/2	
3/4	1,746.64	3/4	1,415.06	3/4	1,083.47	3/4	761.06	3/4	460.94	3/4	184.00	3/4		3/4		3/4		3/4	
9	1,739.74	9	1,408.15	9	1,076.56	9	754.59	9	454.91	9	178.47	9		9		9		9	
1/4	1,732.83	1/4	1,401.24	1/4	1,069.65	1/4	748.15	1/4	448.93	1/4	172.98	1/4		1/4		1/4		1/4	
1/2	1,725.92	1/2	1,394.33	1/2	1,062.74	1/2	741.72	1/2	442.94	1/2	167.49	1/2		1/2		1/2		1/2	
3/4	1,719.01	3/4	1,387.42	3/4	1,055.83	3/4	735.28	3/4	436.96	3/4	161.99	3/4		3/4		3/4		3/4	
10	1,712.10	10	1,380.52	10	1,048.93	10	728.84	10	430.97	10	156.50	10		10		10		10	
1/4	1,705.20	1/4	1,373.61	1/4	1,042.02	1/4	722.44	1/4	425.03	1/4	151.05	1/4		1/4		1/4		1/4	
1/2	1,698.29	1/2	1,366.70	1/2	1,035.11	1/2	716.03	1/2	419.09	1/2	145.60	1/2		1/2		1/2		1/2	
3/4	1,691.38	3/4	1,359.79	3/4	1,028.20	3/4	709.62	3/4	413.14	3/4	140.15	3/4		3/4		3/4		3/4	
11	1,684.47	11	1,352.88	11	1,021.29	11	703.22	11	407.20	11	134.70	11		11		11		11	
1/4	1,677.56	1/4	1,345.97	1/4	1,014.41	1/4	696.85	1/4	401.30	1/4	129.28	1/4		1/4		1/4		1/4	
1/2	1,670.66	1/2	1,339.07	1/2	1,007.52	1/2	690.48	1/2	395.39	1/2	123.87	1/2		1/2		1/2		1/2	
3/4	1,663.75	3/4	1,332.16	3/4	1,000.63	3/4	684.12	3/4	389.49	3/4	118.46	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,235.00	0	3,943.31	0	3,631.35	0	3,302.21	0	2,970.66	0	2,639.10	0	2,307.51		
1/4		1/4		1/4		1/4	4,228.64	1/4	3,937.01	1/4	3,624.64	1/4	3,295.30	1/4	2,963.76	1/4	2,632.19	1/4	2,300.60		
1/2		1/2		1/2		1/2	4,222.27	1/2	3,930.72	1/2	3,617.94	1/2	3,288.40	1/2	2,956.85	1/2	2,625.28	1/2	2,293.69		
3/4		3/4		3/4		3/4	4,216.40	3/4	3,924.39	3/4	3,611.20	3/4	3,281.49	3/4	2,949.94	3/4	2,618.37	3/4	2,286.79		
1		1		1		1	4,210.52	1	3,918.06	1	3,604.46	1	3,274.58	1	2,943.04	1	2,611.47	1	2,279.88		
1/4		1/4		1/4		1/4	4,204.65	1/4	3,911.74	1/4	3,597.72	1/4	3,267.67	1/4	2,936.13	1/4	2,604.56	1/4	2,272.97		
1/2		1/2		1/2		1/2	4,198.77	1/2	3,905.41	1/2	3,590.98	1/2	3,260.77	1/2	2,929.22	1/2	2,597.65	1/2	2,266.06		
3/4		3/4		3/4		3/4	4,192.86	3/4	3,899.05	3/4	3,584.20	3/4	3,253.86	3/4	2,922.31	3/4	2,590.74	3/4	2,259.15		
2		2		2		2	4,186.96	2	3,892.69	2	3,577.43	2	3,246.95	2	2,915.41	2	2,583.83	2	2,252.25		
1/4		1/4		1/4		1/4	4,181.05	1/4	3,886.32	1/4	3,570.65	1/4	3,240.05	1/4	2,908.50	1/4	2,576.93	1/4	2,245.34		
1/2		1/2		1/2		1/2	4,175.14	1/2	3,879.96	1/2	3,563.88	1/2	3,233.14	1/2	2,901.59	1/2	2,570.02	1/2	2,238.43		
3/4		3/4		3/4		3/4	4,169.19	3/4	3,873.57	3/4	3,557.07	3/4	3,226.23	3/4	2,894.69	3/4	2,563.11	3/4	2,231.52		
3		3		3		3	4,163.25	3	3,867.17	3	3,550.26	3	3,219.32	3	2,887.78	3	2,556.20	3	2,224.61		
1/4		1/4		1/4		1/4	4,157.30	1/4	3,860.77	1/4	3,543.46	1/4	3,212.42	1/4	2,880.87	1/4	2,549.29	1/4	2,217.70		
1/2		1/2		1/2		1/2	4,151.36	1/2	3,854.38	1/2	3,536.65	1/2	3,205.51	1/2	2,873.96	1/2	2,542.39	1/2	2,210.80		
3/4		3/4		3/4		3/4	4,145.38	3/4	3,847.95	3/4	3,529.80	3/4	3,198.60	3/4	2,867.06	3/4	2,535.48	3/4	2,203.89		
4		4		4		4	4,139.40	4	3,841.52	4	3,522.96	4	3,191.69	4	2,860.15	4	2,528.57	4	2,196.98		
1/4		1/4		1/4		1/4	4,133.43	1/4	3,835.09	1/4	3,516.12	1/4	3,184.79	1/4	2,853.24	1/4	2,521.66	1/4	2,190.07		
1/2		1/2		1/2		1/2	4,127.45	1/2	3,828.66	1/2	3,509.28	1/2	3,177.88	1/2	2,846.33	1/2	2,514.75	1/2	2,183.16		
3/4		3/4		3/4		3/4	4,121.44	3/4	3,822.19	3/4	3,502.40	3/4	3,170.97	3/4	2,839.43	3/4	2,507.84	3/4	2,176.26		
5		5		5		5	4,115.42	5	3,815.73	5	3,495.52	5	3,164.07	5	2,832.52	5	2,500.94	5	2,169.35		
1/4		1/4		1/4		1/4	4,109.41	1/4	3,809.26	1/4	3,488.65	1/4	3,157.16	1/4	2,825.61	1/4	2,494.03	1/4	2,162.44		
1/2		1/2		1/2		1/2	4,103.40	1/2	3,802.80	1/2	3,481.77	1/2	3,150.25	1/2	2,818.71	1/2	2,487.12	1/2	2,155.53		
3/4		3/4		3/4		3/4	4,097.35	3/4	3,796.30	3/4	3,474.87	3/4	3,143.34	3/4	2,811.80	3/4	2,480.21	3/4	2,148.62		
6		6		6		6	4,091.30	6	3,789.80	6	3,467.97	6	3,136.44	6	2,804.89	6	2,473.30	6	2,141.72		
1/4		1/4		1/4		1/4	4,085.26	1/4	3,783.30	1/4	3,461.07	1/4	3,129.53	1/4	2,797.98	1/4	2,466.40	1/4	2,134.81		
1/2		1/2		1/2		1/2	4,079.21	1/2	3,776.80	1/2	3,454.17	1/2	3,122.62	1/2	2,791.08	1/2	2,459.49	1/2	2,127.90		
3/4		3/4		3/4		3/4	4,073.13	3/4	3,770.27	3/4	3,447.26	3/4	3,115.72	3/4	2,784.17	3/4	2,452.58	3/4	2,120.99		
7		7		7		7	4,364.32	7	4,067.05	7	3,763.73	7	3,440.35	7	3,108.81	7	2,777.26	7	2,445.67	7	2,114.08
1/4		1/4		1/4		1/4	4,359.41	1/4	4,060.97	1/4	3,757.20	1/4	3,433.45	1/4	3,101.90	1/4	2,770.35	1/4	2,438.76	1/4	2,107.18
1/2		1/2		1/2		1/2	4,354.50	1/2	4,054.89	1/2	3,750.67	1/2	3,426.54	1/2	3,094.99	1/2	2,763.44	1/2	2,431.86	1/2	2,100.27
3/4		3/4		3/4		3/4	4,348.33	3/4	4,048.77	3/4	3,744.10	3/4	3,419.63	3/4	3,088.09	3/4	2,756.54	3/4	2,424.95	3/4	2,093.36
8		8		8		8	4,342.17	8	4,042.65	8	3,737.53	8	3,412.73	8	3,081.18	8	2,749.63	8	2,418.04	8	2,086.45
1/4		1/4		1/4		1/4	4,336.00	1/4	4,036.54	1/4	3,730.96	1/4	3,405.82	1/4	3,074.27	1/4	2,742.72	1/4	2,411.13	1/4	2,079.54
1/2		1/2		1/2		1/2	4,329.84	1/2	4,030.42	1/2	3,724.40	1/2	3,398.91	1/2	3,067.37	1/2	2,735.81	1/2	2,404.22	1/2	2,072.63
3/4		3/4		3/4		3/4	4,323.04	3/4	4,024.27	3/4	3,717.79	3/4	3,392.00	3/4	3,060.46	3/4	2,728.90	3/4	2,397.32	3/4	2,065.73
9		9		9		9	4,316.25	9	4,018.12	9	3,711.19	9	3,385.10	9	3,053.55	9	2,722.00	9	2,390.41	9	2,058.82
1/4		1/4		1/4		1/4	4,309.46	1/4	4,011.97	1/4	3,704.59	1/4	3,378.19	1/4	3,046.64	1/4	2,715.09	1/4	2,383.50	1/4	2,051.91
1/2		1/2		1/2		1/2	4,302.66	1/2	4,005.82	1/2	3,697.99	1/2	3,371.28	1/2	3,039.74	1/2	2,708.18	1/2	2,376.59	1/2	2,045.00
3/4		3/4		3/4		3/4	4,295.80	3/4	3,999.60	3/4	3,691.35	3/4	3,364.37	3/4	3,032.83	3/4	2,701.27	3/4	2,369.68	3/4	2,038.09
10		10		10		10	4,288.93	10	3,993.37	10	3,684.71	10	3,357.47	10	3,025.92	10	2,694.36	10	2,362.77	10	2,031.19
1/4		1/4		1/4		1/4	4,282.06	1/4	3,987.15	1/4	3,678.08	1/4	3,350.56	1/4	3,019.01	1/4	2,687.46	1/4	2,355.87	1/4	2,024.28
1/2		1/2		1/2		1/2	4,275.19	1/2	3,980.93	1/2	3,671.44	1/2	3,343.65	1/2	3,012.11	1/2	2,680.55	1/2	2,348.96	1/2	2,017.37
3/4		3/4		3/4		3/4	4,268.33	3/4	3,974.67	3/4	3,664.77	3/4	3,336.75	3/4	3,005.20	3/4	2,673.64	3/4	2,342.05	3/4	2,010.46
11		11		11		11	4,261.46	11	3,968.41	11	3,658.10	11	3,329.84	11	2,998.29	11	2,666.73	11	2,335.14	11	2,003.55
1/4		1/4		1/4		1/4	4,254.59	1/4	3,962.15	1/4	3,651.43	1/4	3,322.93	1/4	2,991.39	1/4	2,659.82	1/4	2,328.23	1/4	1,996.65
1/2		1/2		1/2		1/2	4,247.73	1/2	3,955.89	1/2	3,644.76	1/2	3,316.02	1/2	2,984.48	1/2	2,652.92	1/2	2,321.33	1/2	1,989.74
3/4		3/4		3/4		3/4	4,241.36	3/4	3,949.60	3/4	3,638.05	3/4	3,309.12	3/4	2,977.57	3/4	2,646.01	3/4	2,314.42	3/4	1,982.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 390"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 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	1,975.92	0	1,644.33	0	1,312.74	0	981.36	0	665.01	0	371.84	0	102.30	0		0		0	
1/4	1,969.01	1/4	1,637.42	1/4	1,305.84	1/4	974.51	1/4	658.65	1/4	365.98	1/4	96.94	1/4		1/4		1/4	
1/2	1,962.11	1/2	1,630.52	1/2	1,298.93	1/2	967.67	1/2	652.30	1/2	360.11	1/2	91.57	1/2		1/2		1/2	
3/4	1,955.20	3/4	1,623.61	3/4	1,292.02	3/4	960.86	3/4	645.99	3/4	354.29	3/4	86.24	3/4		3/4		3/4	
1	1,948.29	1	1,616.70	1	1,285.11	1	954.06	1	639.67	1	348.47	1	80.91	1		1		1	
1/4	1,941.38	1/4	1,609.79	1/4	1,278.20	1/4	947.25	1/4	633.36	1/4	342.65	1/4	75.58	1/4		1/4		1/4	
1/2	1,934.47	1/2	1,602.88	1/2	1,271.30	1/2	940.45	1/2	627.05	1/2	336.83	1/2	70.25	1/2		1/2		1/2	
3/4	1,927.56	3/4	1,595.98	3/4	1,264.39	3/4	933.69	3/4	620.78	3/4	331.05	3/4	64.97	3/4		3/4		3/4	
2	1,920.66	2	1,589.07	2	1,257.48	2	926.94	2	614.50	2	325.27	2	59.68	2		2		2	
1/4	1,913.75	1/4	1,582.16	1/4	1,250.57	1/4	920.19	1/4	608.23	1/4	319.49	1/4	54.39	1/4		1/4		1/4	
1/2	1,906.84	1/2	1,575.25	1/2	1,243.66	1/2	913.44	1/2	601.96	1/2	313.72	1/2	49.11	1/2		1/2		1/2	
3/4	1,899.93	3/4	1,568.34	3/4	1,236.75	3/4	906.73	3/4	595.73	3/4	307.98	3/4	44.11	3/4		3/4		3/4	
3	1,893.02	3	1,561.44	3	1,229.85	3	900.02	3	589.50	3	302.24	3	39.11	3		3		3	
1/4	1,886.12	1/4	1,554.53	1/4	1,222.94	1/4	893.31	1/4	583.27	1/4	296.50	1/4	34.11	1/4		1/4		1/4	
1/2	1,879.21	1/2	1,547.62	1/2	1,216.03	1/2	886.60	1/2	577.04	1/2	290.76	1/2	29.11	1/2		1/2		1/2	
3/4	1,872.30	3/4	1,540.71	3/4	1,209.12	3/4	879.93	3/4	570.85	3/4	285.06	3/4	25.88	3/4		3/4		3/4	
4	1,865.39	4	1,533.80	4	1,202.21	4	873.26	4	564.66	4	279.37	4	22.65	4		4		4	
1/4	1,858.48	1/4	1,526.89	1/4	1,195.31	1/4	866.59	1/4	558.47	1/4	273.67	1/4	19.42	1/4		1/4		1/4	
1/2	1,851.58	1/2	1,519.99	1/2	1,188.40	1/2	859.92	1/2	552.28	1/2	267.97	1/2	16.19	1/2		1/2		1/2	
3/4	1,844.67	3/4	1,513.08	3/4	1,181.49	3/4	853.30	3/4	546.13	3/4	262.32	3/4		3/4		3/4		3/4	
5	1,837.76	5	1,506.17	5	1,174.58	5	846.68	5	539.98	5	256.66	5		5		5		5	
1/4	1,830.85	1/4	1,499.26	1/4	1,167.67	1/4	840.05	1/4	533.83	1/4	251.00	1/4		1/4		1/4		1/4	
1/2	1,823.94	1/2	1,492.35	1/2	1,160.77	1/2	833.43	1/2	527.68	1/2	245.35	1/2		1/2		1/2		1/2	
3/4	1,817.03	3/4	1,485.45	3/4	1,153.86	3/4	826.85	3/4	521.58	3/4	239.73	3/4		3/4		3/4		3/4	
6	1,810.13	6	1,478.54	6	1,146.95	6	820.26	6	515.47	6	234.12	6		6		6		6	
1/4	1,803.22	1/4	1,471.63	1/4	1,140.04	1/4	813.68	1/4	509.36	1/4	228.50	1/4		1/4		1/4		1/4	
1/2	1,796.31	1/2	1,464.72	1/2	1,133.13	1/2	807.10	1/2	503.25	1/2	222.89	1/2		1/2		1/2		1/2	
3/4	1,789.40	3/4	1,457.81	3/4	1,126.22	3/4	800.55	3/4	497.19	3/4	217.31	3/4		3/4		3/4		3/4	
7	1,782.49	7	1,450.91	7	1,119.32	7	794.01	7	491.12	7	211.74	7		7		7		7	
1/4	1,775.59	1/4	1,444.00	1/4	1,112.41	1/4	787.46	1/4	485.05	1/4	206.16	1/4		1/4		1/4		1/4	
1/2	1,768.68	1/2	1,437.09	1/2	1,105.50	1/2	780.91	1/2	478.99	1/2	200.59	1/2		1/2		1/2		1/2	
3/4	1,761.77	3/4	1,430.18	3/4	1,098.59	3/4	774.41	3/4	472.96	3/4	195.06	3/4		3/4		3/4		3/4	
8	1,754.86	8	1,423.27	8	1,091.68	8	767.90	8	466.93	8	189.52	8		8		8		8	
1/4	1,747.95	1/4	1,416.37	1/4	1,084.78	1/4	761.40	1/4	460.91	1/4	183.99	1/4		1/4		1/4		1/4	
1/2	1,741.05	1/2	1,409.46	1/2	1,077.87	1/2	754.89	1/2	454.88	1/2	178.46	1/2		1/2		1/2		1/2	
3/4	1,734.14	3/4	1,402.55	3/4	1,070.96	3/4	748.43	3/4	448.90	3/4	172.96	3/4		3/4		3/4		3/4	
9	1,727.23	9	1,395.64	9	1,064.05	9	741.97	9	442.91	9	167.47	9		9		9		9	
1/4	1,720.32	1/4	1,388.73	1/4	1,057.14	1/4	735.50	1/4	436.93	1/4	161.98	1/4		1/4		1/4		1/4	
1/2	1,713.41	1/2	1,381.82	1/2	1,050.24	1/2	729.04	1/2	430.94	1/2	156.49	1/2		1/2		1/2		1/2	
3/4	1,706.51	3/4	1,374.92	3/4	1,043.33	3/4	722.60	3/4	425.00	3/4	151.04	3/4		3/4		3/4		3/4	
10	1,699.60	10	1,368.01	10	1,036.42	10	716.17	10	419.06	10	145.59	10		10		10		10	
1/4	1,692.69	1/4	1,361.10	1/4	1,029.51	1/4	709.73	1/4	413.11	1/4	140.13	1/4		1/4		1/4		1/4	
1/2	1,685.78	1/2	1,354.19	1/2	1,022.60	1/2	703.29	1/2	407.17	1/2	134.68	1/2		1/2		1/2		1/2	
3/4	1,678.87	3/4	1,347.28	3/4	1,015.72	3/4	696.90	3/4	401.27	3/4	129.27	3/4		3/4		3/4		3/4	
11	1,671.96	11	1,340.38	11	1,008.83	11	690.50	11	395.37	11	123.86	11		11		11		11	
1/4	1,665.06	1/4	1,333.47	1/4	1,001.94	1/4	684.11	1/4	389.46	1/4	118.45	1/4		1/4		1/4		1/4	
1/2	1,658.15	1/2	1,326.56	1/2	995.05	1/2	677.71	1/2	383.56	1/2	113.04	1/2		1/2		1/2		1/2	
3/4	1,651.24	3/4	1,319.65	3/4	988.21	3/4	671.36	3/4	377.70	3/4	107.67	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,106.16	0	4,764.71	0	4,398.95	0	4,013.32	0	3,625.11	0	3,236.86	0	2,848.59
1/4		1/4		1/4		1/4	5,098.71	1/4	4,757.34	1/4	4,391.09	1/4	4,005.23	1/4	3,617.02	1/4	3,228.77	1/4	2,840.50
1/2		1/2		1/2		1/2	5,091.83	1/2	4,749.93	1/2	4,383.20	1/2	3,997.14	1/2	3,608.93	1/2	3,220.69	1/2	2,832.41
3/4		3/4		3/4		3/4	5,084.95	3/4	4,742.52	3/4	4,375.31	3/4	3,989.05	3/4	3,600.84	3/4	3,212.60	3/4	2,824.32
1		1		1		1	5,078.07	1	4,735.11	1	4,367.42	1	3,980.96	1	3,592.76	1	3,204.51	1	2,816.23
1/4		1/4		1/4		1/4	5,071.19	1/4	4,727.71	1/4	4,359.53	1/4	3,972.88	1/4	3,584.67	1/4	3,196.42	1/4	2,808.14
1/2		1/2		1/2		1/2	5,064.27	1/2	4,720.26	1/2	4,351.60	1/2	3,964.79	1/2	3,576.58	1/2	3,188.33	1/2	2,800.05
3/4		3/4		3/4		3/4	5,057.35	3/4	4,712.81	3/4	4,343.66	3/4	3,956.70	3/4	3,568.49	3/4	3,180.24	3/4	2,791.96
2		2		2		2	5,050.44	2	4,705.36	2	4,335.73	2	3,948.61	2	3,560.40	2	3,172.15	2	2,783.87
1/4		1/4		1/4		1/4	5,043.52	1/4	4,697.91	1/4	4,327.80	1/4	3,940.53	1/4	3,552.32	1/4	3,164.06	1/4	2,775.79
1/2		1/2		1/2		1/2	5,036.56	1/2	4,690.42	1/2	4,319.83	1/2	3,932.44	1/2	3,544.23	1/2	3,155.97	1/2	2,767.70
3/4		3/4		3/4		3/4	5,029.60	3/4	4,682.93	3/4	4,311.86	3/4	3,924.35	3/4	3,536.14	3/4	3,147.88	3/4	2,759.61
3		3		3		3	5,022.64	3	4,675.44	3	4,303.88	3	3,916.26	3	3,528.05	3	3,139.79	3	2,751.52
1/4		1/4		1/4		1/4	5,015.68	1/4	4,667.95	1/4	4,295.91	1/4	3,908.18	1/4	3,519.97	1/4	3,131.71	1/4	2,743.43
1/2		1/2		1/2		1/2	5,008.68	1/2	4,660.42	1/2	4,287.90	1/2	3,900.09	1/2	3,511.88	1/2	3,123.62	1/2	2,735.34
3/4		3/4		3/4		3/4	5,001.68	3/4	4,652.89	3/4	4,279.89	3/4	3,892.00	3/4	3,503.79	3/4	3,115.53	3/4	2,727.25
4		4		4		4	4,994.68	4	4,645.36	4	4,271.87	4	3,883.91	4	3,495.70	4	3,107.44	4	2,719.16
1/4		1/4		1/4		1/4	4,987.68	1/4	4,637.83	1/4	4,263.86	1/4	3,875.82	1/4	3,487.61	1/4	3,099.35	1/4	2,711.07
1/2		1/2		1/2		1/2	4,980.64	1/2	4,630.26	1/2	4,255.81	1/2	3,867.74	1/2	3,479.53	1/2	3,091.26	1/2	2,702.98
3/4		3/4		3/4		3/4	4,973.60	3/4	4,622.69	3/4	4,247.76	3/4	3,859.65	3/4	3,471.44	3/4	3,083.17	3/4	2,694.89
5		5		5		5	4,966.56	5	4,615.13	5	4,239.70	5	3,851.56	5	3,463.35	5	3,075.08	5	2,686.81
1/4		1/4		1/4		1/4	4,959.52	1/4	4,607.56	1/4	4,231.65	1/4	3,843.47	1/4	3,455.26	1/4	3,066.99	1/4	2,678.72
1/2		1/2		1/2		1/2	4,952.45	1/2	4,599.95	1/2	4,223.57	1/2	3,835.39	1/2	3,447.18	1/2	3,058.90	1/2	2,670.63
3/4		3/4		3/4		3/4	4,945.37	3/4	4,592.34	3/4	4,215.49	3/4	3,827.30	3/4	3,439.09	3/4	3,050.81	3/4	2,662.54
6		6		6		6	4,938.29	6	4,584.73	6	4,207.41	6	3,819.21	6	3,431.00	6	3,042.73	6	2,654.45
1/4		1/4		1/4		1/4	4,931.21	1/4	4,577.12	1/4	4,199.33	1/4	3,811.12	1/4	3,422.91	1/4	3,034.64	1/4	2,646.36
1/2		1/2		1/2		1/2	5,270.78	1/2	4,924.09	1/2	4,569.47	1/2	4,191.24	1/2	3,803.04	1/2	3,414.82	1/2	3,026.55
3/4		3/4		3/4		3/4	5,265.03	3/4	4,916.97	3/4	4,561.81	3/4	4,183.16	3/4	3,794.95	3/4	3,406.74	3/4	3,018.46
7		7		7		7	5,259.28	7	4,909.85	7	4,554.16	7	4,175.07	7	3,786.86	7	3,398.65	7	3,010.37
1/4		1/4		1/4		1/4	5,253.53	1/4	4,902.72	1/4	4,546.51	1/4	4,166.98	1/4	3,778.77	1/4	3,390.56	1/4	3,002.28
1/2		1/2		1/2		1/2	5,246.31	1/2	4,895.56	1/2	4,538.82	1/2	4,158.89	1/2	3,770.68	1/2	3,382.47	1/2	2,994.19
3/4		3/4		3/4		3/4	5,239.09	3/4	4,888.40	3/4	4,531.13	3/4	4,150.81	3/4	3,762.60	3/4	3,374.38	3/4	2,986.10
8		8		8		8	5,231.87	8	4,881.24	8	4,523.44	8	4,142.72	8	3,754.51	8	3,366.29	8	2,978.01
1/4		1/4		1/4		1/4	5,224.65	1/4	4,874.08	1/4	4,515.75	1/4	4,134.63	1/4	3,746.42	1/4	3,358.20	1/4	2,969.92
1/2		1/2		1/2		1/2	5,216.70	1/2	4,866.88	1/2	4,508.02	1/2	4,126.54	1/2	3,738.33	1/2	3,350.11	1/2	2,961.83
3/4		3/4		3/4		3/4	5,208.74	3/4	4,859.68	3/4	4,500.29	3/4	4,118.46	3/4	3,730.25	3/4	3,342.02	3/4	2,953.75
9		9		9		9	5,200.79	9	4,852.48	9	4,492.56	9	4,110.37	9	3,722.16	9	3,333.93	9	2,945.66
1/4		1/4		1/4		1/4	5,192.83	1/4	4,845.28	1/4	4,484.83	1/4	4,102.28	1/4	3,714.07	1/4	3,325.84	1/4	2,937.57
1/2		1/2		1/2		1/2	5,184.79	1/2	4,837.99	1/2	4,477.06	1/2	4,094.19	1/2	3,705.98	1/2	3,317.76	1/2	2,929.48
3/4		3/4		3/4		3/4	5,176.75	3/4	4,830.71	3/4	4,469.29	3/4	4,086.10	3/4	3,697.90	3/4	3,309.67	3/4	2,921.39
10		10		10		10	5,168.71	10	4,823.42	10	4,461.52	10	4,078.02	10	3,689.81	10	3,301.58	10	2,913.30
1/4		1/4		1/4		1/4	5,160.67	1/4	4,816.13	1/4	4,453.74	1/4	4,069.93	1/4	3,681.72	1/4	3,293.49	1/4	2,905.21
1/2		1/2		1/2		1/2	5,152.63	1/2	4,808.80	1/2	4,445.93	1/2	4,061.84	1/2	3,673.63	1/2	3,285.40	1/2	2,897.12
3/4		3/4		3/4		3/4	5,144.59	3/4	4,801.47	3/4	4,438.12	3/4	4,053.75	3/4	3,665.54	3/4	3,277.31	3/4	2,889.03
11		11		11		11	5,136.55	11	4,794.14	11	4,430.31	11	4,045.67	11	3,657.46	11	3,269.22	11	2,880.94
1/4		1/4		1/4		1/4	5,128.50	1/4	4,786.82	1/4	4,422.50	1/4	4,037.58	1/4	3,649.37	1/4	3,261.13	1/4	2,872.85
1/2		1/2		1/2		1/2	5,121.06	1/2	4,779.45	1/2	4,414.65	1/2	4,029.49	1/2	3,641.28	1/2	3,253.04	1/2	2,864.77
3/4		3/4		3/4		3/4	5,113.61	3/4	4,772.08	3/4	4,406.80	3/4	4,021.40	3/4	3,633.19	3/4	3,244.95	3/4	2,856.68

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 390"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,460.31	0	2,072.03	0	1,683.76	0	1,295.48	0	907.20	0	533.90	0	145.96	0		0		0	
1/4	2,452.22	1/4	2,063.94	1/4	1,675.67	1/4	1,287.39	1/4	899.11	1/4	526.12	1/4	137.88	1/4		1/4		1/4	
1/2	2,444.13	1/2	2,055.86	1/2	1,667.58	1/2	1,279.30	1/2	891.33	1/2	518.03	1/2	129.79	1/2		1/2		1/2	
3/4	2,436.04	3/4	2,047.77	3/4	1,659.49	3/4	1,271.21	3/4	883.55	3/4	509.94	3/4	121.70	3/4		3/4		3/4	
1	2,427.95	1	2,039.68	1	1,651.40	1	1,263.12	1	875.76	1	501.85	1	113.61	1		1		1	
1/4	2,419.86	1/4	2,031.59	1/4	1,643.31	1/4	1,255.03	1/4	867.98	1/4	493.77	1/4	105.52	1/4		1/4		1/4	
1/2	2,411.78	1/2	2,023.50	1/2	1,635.22	1/2	1,246.95	1/2	860.20	1/2	485.68	1/2	97.43	1/2		1/2		1/2	
3/4	2,403.69	3/4	2,015.41	3/4	1,627.13	3/4	1,238.86	3/4	852.41	3/4	477.59	3/4	89.35	3/4		3/4		3/4	
2	2,395.60	2	2,007.32	2	1,619.04	2	1,230.77	2	844.63	2	469.50	2	81.26	2		2		2	
1/4	2,387.51	1/4	1,999.23	1/4	1,610.95	1/4	1,222.68	1/4	836.85	1/4	461.41	1/4	73.17	1/4		1/4		1/4	
1/2	2,379.42	1/2	1,991.14	1/2	1,602.87	1/2	1,214.59	1/2	829.07	1/2	453.32	1/2	65.07	1/2		1/2		1/2	
3/4	2,371.33	3/4	1,983.05	3/4	1,594.78	3/4	1,206.50	3/4	821.29	3/4	445.23	3/4	57.07	3/4		3/4		3/4	
3	2,363.24	3	1,974.96	3	1,586.69	3	1,198.41	3	813.52	3	437.15	3	49.07	3		3		3	
1/4	2,355.15	1/4	1,966.88	1/4	1,578.60	1/4	1,190.32	1/4	805.74	1/4	429.06	1/4	41.07	1/4		1/4		1/4	
1/2	2,347.06	1/2	1,958.79	1/2	1,570.51	1/2	1,182.23	1/2	797.97	1/2	420.97	1/2	33.07	1/2		1/2		1/2	
3/4	2,338.97	3/4	1,950.70	3/4	1,562.42	3/4	1,174.14	3/4	790.20	3/4	412.88	3/4	25.07	3/4		3/4		3/4	
4	2,330.88	4	1,942.61	4	1,554.33	4	1,166.05	4	782.44	4	404.79	4	17.07	4		4		4	
1/4	2,322.80	1/4	1,934.52	1/4	1,546.24	1/4	1,157.97	1/4	774.67	1/4	396.70	1/4	9.07	1/4		1/4		1/4	
1/2	2,314.71	1/2	1,926.43	1/2	1,538.15	1/2	1,149.88	1/2	766.90	1/2	388.62	1/2	1.07	1/2		1/2		1/2	
3/4	2,306.62	3/4	1,918.34	3/4	1,530.06	3/4	1,141.79	3/4	759.14	3/4	380.53	3/4		3/4		3/4		3/4	
5	2,298.53	5	1,910.25	5	1,521.97	5	1,133.70	5	751.37	5	372.44	5		5		5		5	
1/4	2,290.44	1/4	1,902.16	1/4	1,513.89	1/4	1,125.61	1/4	743.60	1/4	364.35	1/4		1/4		1/4		1/4	
1/2	2,282.35	1/2	1,894.07	1/2	1,505.80	1/2	1,117.52	1/2	735.83	1/2	356.26	1/2		1/2		1/2		1/2	
3/4	2,274.26	3/4	1,885.98	3/4	1,497.71	3/4	1,109.43	3/4	728.07	3/4	348.17	3/4		3/4		3/4		3/4	
6	2,266.17	6	1,877.90	6	1,489.62	6	1,101.34	6	720.30	6	340.09	6		6		6		6	
1/4	2,258.08	1/4	1,869.81	1/4	1,481.53	1/4	1,093.25	1/4	712.53	1/4	332.00	1/4		1/4		1/4		1/4	
1/2	2,249.99	1/2	1,861.72	1/2	1,473.44	1/2	1,085.16	1/2	704.77	1/2	323.91	1/2		1/2		1/2		1/2	
3/4	2,241.90	3/4	1,853.63	3/4	1,465.35	3/4	1,077.07	3/4	697.01	3/4	315.82	3/4		3/4		3/4		3/4	
7	2,233.82	7	1,845.54	7	1,457.26	7	1,068.99	7	689.24	7	307.73	7		7		7		7	
1/4	2,225.73	1/4	1,837.45	1/4	1,449.17	1/4	1,060.90	1/4	681.48	1/4	299.64	1/4		1/4		1/4		1/4	
1/2	2,217.64	1/2	1,829.36	1/2	1,441.08	1/2	1,052.81	1/2	673.72	1/2	291.56	1/2		1/2		1/2		1/2	
3/4	2,209.55	3/4	1,821.27	3/4	1,432.99	3/4	1,044.72	3/4	665.96	3/4	283.47	3/4		3/4		3/4		3/4	
8	2,201.46	8	1,813.18	8	1,424.91	8	1,036.63	8	658.19	8	275.38	8		8		8		8	
1/4	2,193.37	1/4	1,805.09	1/4	1,416.82	1/4	1,028.54	1/4	650.43	1/4	267.29	1/4		1/4		1/4		1/4	
1/2	2,185.28	1/2	1,797.00	1/2	1,408.73	1/2	1,020.45	1/2	642.66	1/2	259.20	1/2		1/2		1/2		1/2	
3/4	2,177.19	3/4	1,788.92	3/4	1,400.64	3/4	1,012.36	3/4	634.90	3/4	251.11	3/4		3/4		3/4		3/4	
9	2,169.10	9	1,780.83	9	1,392.55	9	1,004.27	9	627.13	9	243.02	9		9		9		9	
1/4	2,161.01	1/4	1,772.74	1/4	1,384.46	1/4	996.18	1/4	619.36	1/4	234.94	1/4		1/4		1/4		1/4	
1/2	2,152.92	1/2	1,764.65	1/2	1,376.37	1/2	988.09	1/2	611.60	1/2	226.85	1/2		1/2		1/2		1/2	
3/4	2,144.84	3/4	1,756.56	3/4	1,368.28	3/4	980.01	3/4	603.83	3/4	218.76	3/4		3/4		3/4		3/4	
10	2,136.75	10	1,748.47	10	1,360.19	10	971.92	10	596.06	10	210.67	10		10		10		10	
1/4	2,128.66	1/4	1,740.38	1/4	1,352.10	1/4	963.83	1/4	588.29	1/4	202.58	1/4		1/4		1/4		1/4	
1/2	2,120.57	1/2	1,732.29	1/2	1,344.01	1/2	955.74	1/2	580.53	1/2	194.49	1/2		1/2		1/2		1/2	
3/4	2,112.48	3/4	1,724.20	3/4	1,335.93	3/4	947.65	3/4	572.76	3/4	186.41	3/4		3/4		3/4		3/4	
11	2,104.39	11	1,716.11	11	1,327.84	11	939.56	11	564.99	11	178.32	11		11		11		11	
1/4	2,096.30	1/4	1,708.02	1/4	1,319.75	1/4	931.47	1/4	557.23	1/4	170.23	1/4		1/4		1/4		1/4	
1/2	2,088.21	1/2	1,699.93	1/2	1,311.66	1/2	923.38	1/2	549.45	1/2	162.14	1/2		1/2		1/2		1/2	
3/4	2,080.12	3/4	1,691.85	3/4	1,303.57	3/4	915.29	3/4	541.67	3/4	154.05	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,145.72	0	4,803.88	0	4,439.40	0	4,054.31	0	3,665.92	0	3,277.50	0	2,889.06
1/4		1/4		1/4		1/4	5,138.27	1/4	4,796.51	1/4	4,431.55	1/4	4,046.21	1/4	3,657.83	1/4	3,269.41	1/4	2,880.96
1/2		1/2		1/2		1/2	5,130.82	1/2	4,789.14	1/2	4,423.69	1/2	4,038.12	1/2	3,649.74	1/2	3,261.32	1/2	2,872.87
3/4		3/4		3/4		3/4	5,123.36	3/4	4,781.76	3/4	4,415.84	3/4	4,030.03	3/4	3,641.64	3/4	3,253.23	3/4	2,864.78
1		1		1		1	5,115.91	1	4,774.39	1	4,407.98	1	4,021.94	1	3,633.55	1	3,245.13	1	2,856.68
1/4		1/4		1/4		1/4	5,109.03	1/4	4,766.98	1/4	4,400.08	1/4	4,013.85	1/4	3,625.46	1/4	3,237.04	1/4	2,848.59
1/2		1/2		1/2		1/2	5,102.15	1/2	4,759.57	1/2	4,392.19	1/2	4,005.76	1/2	3,617.37	1/2	3,228.95	1/2	2,840.50
3/4		3/4		3/4		3/4	5,095.26	3/4	4,752.15	3/4	4,384.29	3/4	3,997.67	3/4	3,609.28	3/4	3,220.86	3/4	2,832.41
2		2		2		2	5,088.38	2	4,744.74	2	4,376.40	2	3,989.57	2	3,601.19	2	3,212.76	2	2,824.31
1/4		1/4		1/4		1/4	5,081.46	1/4	4,737.29	1/4	4,368.46	1/4	3,981.48	1/4	3,593.10	1/4	3,204.67	1/4	2,816.22
1/2		1/2		1/2		1/2	5,074.54	1/2	4,729.84	1/2	4,360.53	1/2	3,973.39	1/2	3,585.00	1/2	3,196.58	1/2	2,808.13
3/4		3/4		3/4		3/4	5,067.62	3/4	4,722.39	3/4	4,352.59	3/4	3,965.30	3/4	3,576.91	3/4	3,188.48	3/4	2,800.04
3		3		3		3	5,060.70	3	4,714.93	3	4,344.66	3	3,957.21	3	3,568.82	3	3,180.39	3	2,791.94
1/4		1/4		1/4		1/4	5,053.73	1/4	4,707.44	1/4	4,336.68	1/4	3,949.12	1/4	3,560.73	1/4	3,172.30	1/4	2,783.85
1/2		1/2		1/2		1/2	5,046.77	1/2	4,699.95	1/2	4,328.71	1/2	3,941.03	1/2	3,552.64	1/2	3,164.21	1/2	2,775.76
3/4		3/4		3/4		3/4	5,039.81	3/4	4,692.46	3/4	4,320.73	3/4	3,932.93	3/4	3,544.55	3/4	3,156.11	3/4	2,767.66
4		4		4		4	5,032.85	4	4,684.96	4	4,312.75	4	3,924.84	4	3,536.46	4	3,148.02	4	2,759.57
1/4		1/4		1/4		1/4	5,025.84	1/4	4,677.43	1/4	4,304.74	1/4	3,916.75	1/4	3,528.36	1/4	3,139.93	1/4	2,751.48
1/2		1/2		1/2		1/2	5,018.84	1/2	4,669.90	1/2	4,296.72	1/2	3,908.66	1/2	3,520.27	1/2	3,131.84	1/2	2,743.39
3/4		3/4		3/4		3/4	5,011.84	3/4	4,662.36	3/4	4,288.71	3/4	3,900.57	3/4	3,512.18	3/4	3,123.74	3/4	2,735.29
5		5		5		5	5,004.84	5	4,654.83	5	4,280.69	5	3,892.48	5	3,504.09	5	3,115.65	5	2,727.20
1/4		1/4		1/4		1/4	4,997.79	1/4	4,647.26	1/4	4,272.63	1/4	3,884.39	1/4	3,496.00	1/4	3,107.56	1/4	2,719.11
1/2		1/2		1/2		1/2	4,990.75	1/2	4,639.68	1/2	4,264.58	1/2	3,876.29	1/2	3,487.91	1/2	3,099.47	1/2	2,711.02
3/4		3/4		3/4		3/4	4,983.71	3/4	4,632.11	3/4	4,256.52	3/4	3,868.20	3/4	3,479.82	3/4	3,091.37	3/4	2,702.92
6		6		6		6	4,976.67	6	4,624.54	6	4,248.46	6	3,860.11	6	3,471.72	6	3,083.28	6	2,694.83
1/4		1/4		1/4		1/4	4,969.58	1/4	4,616.92	1/4	4,240.38	1/4	3,852.02	1/4	3,463.63	1/4	3,075.19	1/4	2,686.74
1/2		1/2		1/2		1/2	4,962.50	1/2	4,609.31	1/2	4,232.30	1/2	3,843.93	1/2	3,455.54	1/2	3,067.09	1/2	2,678.64
3/4		3/4		3/4		3/4	4,955.42	3/4	4,601.70	3/4	4,224.22	3/4	3,835.84	3/4	3,447.45	3/4	3,059.00	3/4	2,670.55
7		7		7		7	4,948.33	7	4,594.08	7	4,216.13	7	3,827.75	7	3,439.36	7	3,050.91	7	2,662.46
1/4		1/4		1/4		1/4	5,288.06	1/4	4,941.21	1/4	4,586.43	1/4	4,208.04	1/4	3,819.65	1/4	3,431.27	1/4	3,042.82
1/2		1/2		1/2		1/2	5,282.31	1/2	4,934.09	1/2	4,578.78	1/2	4,199.95	1/2	3,811.56	1/2	3,423.17	1/2	3,034.72
3/4		3/4		3/4		3/4	5,276.56	3/4	4,926.96	3/4	4,571.12	3/4	4,191.86	3/4	3,803.47	3/4	3,415.08	3/4	3,026.63
8		8		8		8	5,270.81	8	4,919.84	8	4,563.47	8	4,183.77	8	3,795.38	8	3,406.99	8	3,018.54
1/4		1/4		1/4		1/4	5,263.58	1/4	4,912.68	1/4	4,555.78	1/4	4,175.68	1/4	3,787.29	1/4	3,398.90	1/4	3,010.45
1/2		1/2		1/2		1/2	5,256.36	1/2	4,905.51	1/2	4,548.08	1/2	4,167.58	1/2	3,779.20	1/2	3,390.80	1/2	3,002.35
3/4		3/4		3/4		3/4	5,249.13	3/4	4,898.35	3/4	4,540.39	3/4	4,159.49	3/4	3,771.11	3/4	3,382.71	3/4	2,994.26
9		9		9		9	5,241.91	9	4,891.19	9	4,532.69	9	4,151.40	9	3,763.01	9	3,374.62	9	2,986.17
1/4		1/4		1/4		1/4	5,233.95	1/4	4,883.98	1/4	4,524.96	1/4	4,143.31	1/4	3,754.92	1/4	3,366.52	1/4	2,978.07
1/2		1/2		1/2		1/2	5,225.99	1/2	4,876.78	1/2	4,517.23	1/2	4,135.22	1/2	3,746.83	1/2	3,358.43	1/2	2,969.98
3/4		3/4		3/4		3/4	5,218.03	3/4	4,869.57	3/4	4,509.49	3/4	4,127.13	3/4	3,738.74	3/4	3,350.34	3/4	2,961.89
10		10		10		10	5,210.08	10	4,862.37	10	4,501.76	10	4,119.04	10	3,730.65	10	3,342.25	10	2,953.80
1/4		1/4		1/4		1/4	5,202.03	1/4	4,855.08	1/4	4,493.98	1/4	4,110.94	1/4	3,722.56	1/4	3,334.15	1/4	2,945.70
1/2		1/2		1/2		1/2	5,193.99	1/2	4,847.79	1/2	4,486.21	1/2	4,102.85	1/2	3,714.47	1/2	3,326.06	1/2	2,937.61
3/4		3/4		3/4		3/4	5,185.94	3/4	4,840.50	3/4	4,478.43	3/4	4,094.76	3/4	3,706.37	3/4	3,317.97	3/4	2,929.52
11		11		11		11	5,177.90	11	4,833.21	11	4,470.66	11	4,086.67	11	3,698.28	11	3,309.88	11	2,921.43
1/4		1/4		1/4		1/4	5,169.85	1/4	4,825.87	1/4	4,462.84	1/4	4,078.58	1/4	3,690.19	1/4	3,301.78	1/4	2,913.33
1/2		1/2		1/2		1/2	5,161.81	1/2	4,818.54	1/2	4,455.03	1/2	4,070.49	1/2	3,682.10	1/2	3,293.69	1/2	2,905.24
3/4		3/4		3/4		3/4	5,153.77	3/4	4,811.21	3/4	4,447.22	3/4	4,062.40	3/4	3,674.01	3/4	3,285.60	3/4	2,897.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 390"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-5"

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	2,500.61	0	2,112.16	0	1,723.71	0	1,335.26	0	946.81	0	558.73	0	170.31	0		0		0	
1/4	2,492.51	1/4	2,104.06	1/4	1,715.61	1/4	1,327.16	1/4	938.71	1/4	550.64	1/4	162.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,484.42	1/2	2,095.97	1/2	1,707.52	1/2	1,319.07	1/2	930.62	1/2	542.54	1/2	154.13	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,476.33	3/4	2,087.88	3/4	1,699.43	3/4	1,310.98	3/4	922.53	3/4	534.45	3/4	146.04	3/4	3/4	3/4	3/4	3/4	3/4
1	2,468.23	1	2,079.78	1	1,691.34	1	1,302.89	1	914.44	1	526.36	1	137.94	1	1	1	1	1	1
1/4	2,460.14	1/4	2,071.69	1/4	1,683.24	1/4	1,294.79	1/4	906.34	1/4	518.27	1/4	129.85	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,452.05	1/2	2,063.60	1/2	1,675.15	1/2	1,286.70	1/2	898.25	1/2	510.18	1/2	121.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,443.96	3/4	2,055.51	3/4	1,667.06	3/4	1,278.61	3/4	890.16	3/4	502.08	3/4	113.67	3/4	3/4	3/4	3/4	3/4	3/4
2	2,435.86	2	2,047.41	2	1,658.96	2	1,270.52	2	882.07	2	493.99	2	105.58	2	2	2	2	2	2
1/4	2,427.77	1/4	2,039.32	1/4	1,650.87	1/4	1,262.42	1/4	873.97	1/4	485.90	1/4	97.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,419.68	1/2	2,031.23	1/2	1,642.78	1/2	1,254.33	1/2	865.88	1/2	477.81	1/2	89.39	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,411.59	3/4	2,023.14	3/4	1,634.69	3/4	1,246.24	3/4	857.79	3/4	469.72	3/4	81.30	3/4	3/4	3/4	3/4	3/4	3/4
3	2,403.49	3	2,015.04	3	1,626.59	3	1,238.14	3	849.69	3	461.62	3	73.21	3	3	3	3	3	3
1/4	2,395.40	1/4	2,006.95	1/4	1,618.50	1/4	1,230.05	1/4	841.60	1/4	453.53	1/4	65.11	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,387.31	1/2	1,998.86	1/2	1,610.41	1/2	1,221.96	1/2	833.51	1/2	445.44	1/2	57.02	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,379.21	3/4	1,990.77	3/4	1,602.32	3/4	1,213.87	3/4	825.42	3/4	437.35	3/4	49.00	3/4	3/4	3/4	3/4	3/4	3/4
4	2,371.12	4	1,982.67	4	1,594.22	4	1,205.77	4	817.32	4	429.26	4	42.00	4	4	4	4	4	4
1/4	2,363.03	1/4	1,974.58	1/4	1,586.13	1/4	1,197.68	1/4	809.24	1/4	421.16	1/4	36.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,354.94	1/2	1,966.49	1/2	1,578.04	1/2	1,189.59	1/2	801.16	1/2	413.07	1/2	30.44	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,346.84	3/4	1,958.39	3/4	1,569.94	3/4	1,181.50	3/4	793.08	3/4	404.98	3/4	24.66	3/4	3/4	3/4	3/4	3/4	3/4
5	2,338.75	5	1,950.30	5	1,561.85	5	1,173.40	5	784.99	5	396.89	5	18.88	5	5	5	5	5	5
1/4	2,330.66	1/4	1,942.21	1/4	1,553.76	1/4	1,165.31	1/4	776.91	1/4	388.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,322.57	1/2	1,934.12	1/2	1,545.67	1/2	1,157.22	1/2	768.83	1/2	380.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,314.47	3/4	1,926.02	3/4	1,537.57	3/4	1,149.12	3/4	760.75	3/4	372.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,306.38	6	1,917.93	6	1,529.48	6	1,141.03	6	752.67	6	364.52	6		6	6	6	6	6	6
1/4	2,298.29	1/4	1,909.84	1/4	1,521.39	1/4	1,132.94	1/4	744.58	1/4	356.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,290.20	1/2	1,901.75	1/2	1,513.30	1/2	1,124.85	1/2	736.50	1/2	348.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,282.10	3/4	1,893.65	3/4	1,505.20	3/4	1,116.75	3/4	728.42	3/4	340.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,274.01	7	1,885.56	7	1,497.11	7	1,108.66	7	720.34	7	332.15	7		7	7	7	7	7	7
1/4	2,265.92	1/4	1,877.47	1/4	1,489.02	1/4	1,100.57	1/4	712.26	1/4	324.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,257.82	1/2	1,869.37	1/2	1,480.93	1/2	1,092.48	1/2	704.18	1/2	315.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,249.73	3/4	1,861.28	3/4	1,472.83	3/4	1,084.38	3/4	696.10	3/4	307.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,241.64	8	1,853.19	8	1,464.74	8	1,076.29	8	688.03	8	299.78	8		8	8	8	8	8	8
1/4	2,233.55	1/4	1,845.10	1/4	1,456.65	1/4	1,068.20	1/4	679.95	1/4	291.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,225.45	1/2	1,837.00	1/2	1,448.55	1/2	1,060.10	1/2	671.87	1/2	283.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,217.36	3/4	1,828.91	3/4	1,440.46	3/4	1,052.01	3/4	663.79	3/4	275.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,209.27	9	1,820.82	9	1,432.37	9	1,043.92	9	655.72	9	267.42	9		9	9	9	9	9	9
1/4	2,201.18	1/4	1,812.73	1/4	1,424.28	1/4	1,035.83	1/4	647.63	1/4	259.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,193.08	1/2	1,804.63	1/2	1,416.18	1/2	1,027.73	1/2	639.55	1/2	251.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,184.99	3/4	1,796.54	3/4	1,408.09	3/4	1,019.64	3/4	631.47	3/4	243.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,176.90	10	1,788.45	10	1,400.00	10	1,011.55	10	623.39	10	235.05	10		10	10	10	10	10	10
1/4	2,168.80	1/4	1,780.36	1/4	1,391.91	1/4	1,003.46	1/4	615.30	1/4	226.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,160.71	1/2	1,772.26	1/2	1,383.81	1/2	995.36	1/2	607.22	1/2	218.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,152.62	3/4	1,764.17	3/4	1,375.72	3/4	987.27	3/4	599.14	3/4	210.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,144.53	11	1,756.08	11	1,367.63	11	979.18	11	591.06	11	202.68	11		11	11	11	11	11	11
1/4	2,136.43	1/4	1,747.98	1/4	1,359.53	1/4	971.09	1/4	582.98	1/4	194.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,128.34	1/2	1,739.89	1/2	1,351.44	1/2	962.99	1/2	574.89	1/2	186.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,120.25	3/4	1,731.80	3/4	1,343.35	3/4	954.90	3/4	566.81	3/4	178.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,484.60	0	4,233.47	0	3,960.01	0	3,668.07	0	3,369.57	0	3,008.74	0	2,647.78
1/4		1/4		1/4		1/4	4,479.06	1/4	4,228.01	1/4	3,954.10	1/4	3,661.94	1/4	3,362.05	1/4	3,001.22	1/4	2,640.26
1/2		1/2		1/2		1/2	4,474.04	1/2	4,222.50	1/2	3,948.15	1/2	3,655.80	1/2	3,354.52	1/2	2,993.70	1/2	2,632.74
3/4		3/4		3/4		3/4	4,469.02	3/4	4,217.00	3/4	3,942.20	3/4	3,649.67	3/4	3,347.00	3/4	2,986.19	3/4	2,625.22
1		1		1		1	4,464.01	1	4,211.50	1	3,936.25	1	3,643.54	1	3,339.48	1	2,978.67	1	2,617.69
1/4		1/4		1/4		1/4	4,458.99	1/4	4,206.00	1/4	3,930.30	1/4	3,637.41	1/4	3,331.96	1/4	2,971.16	1/4	2,610.17
1/2		1/2		1/2		1/2	4,453.94	1/2	4,200.46	1/2	3,924.31	1/2	3,631.28	1/2	3,324.44	1/2	2,963.64	1/2	2,602.65
3/4		3/4		3/4		3/4	4,448.89	3/4	4,194.93	3/4	3,918.32	3/4	3,625.15	3/4	3,316.92	3/4	2,956.13	3/4	2,595.13
2		2		2		2	4,443.84	2	4,189.39	2	3,912.34	2	3,619.01	2	3,309.40	2	2,948.61	2	2,587.60
1/4		1/4		1/4		1/4	4,438.78	1/4	4,183.85	1/4	3,906.35	1/4	3,612.88	1/4	3,301.87	1/4	2,941.10	1/4	2,580.08
1/2		1/2		1/2		1/2	4,433.69	1/2	4,178.27	1/2	3,900.33	1/2	3,606.75	1/2	3,294.35	1/2	2,933.58	1/2	2,572.56
3/4		3/4		3/4		3/4	4,428.60	3/4	4,172.70	3/4	3,894.30	3/4	3,600.62	3/4	3,286.83	3/4	2,926.07	3/4	2,565.04
3		3		3		3	4,423.51	3	4,167.12	3	3,888.28	3	3,594.49	3	3,279.31	3	2,918.55	3	2,557.51
1/4		1/4		1/4		1/4	4,418.42	1/4	4,161.55	1/4	3,882.25	1/4	3,588.35	1/4	3,271.79	1/4	2,911.04	1/4	2,549.99
1/2		1/2		1/2		1/2	4,413.29	1/2	4,155.94	1/2	3,876.19	1/2	3,582.22	1/2	3,264.27	1/2	2,903.52	1/2	2,542.47
3/4		3/4		3/4		3/4	4,408.17	3/4	4,150.32	3/4	3,870.13	3/4	3,576.09	3/4	3,256.74	3/4	2,896.01	3/4	2,534.95
4		4		4		4	4,403.04	4	4,144.71	4	3,864.07	4	3,569.96	4	3,249.22	4	2,888.49	4	2,527.42
1/4		1/4		1/4		1/4	4,397.91	1/4	4,139.10	1/4	3,858.00	1/4	3,563.83	1/4	3,241.70	1/4	2,880.98	1/4	2,519.90
1/2		1/2		1/2		1/2	4,392.75	1/2	4,133.45	1/2	3,851.91	1/2	3,557.69	1/2	3,234.19	1/2	2,873.45	1/2	2,512.38
3/4		3/4		3/4		3/4	4,387.58	3/4	4,127.80	3/4	3,845.81	3/4	3,551.56	3/4	3,226.67	3/4	2,865.93	3/4	2,504.86
5		5		5		5	4,382.42	5	4,122.15	5	3,839.71	5	3,545.43	5	3,219.16	5	2,858.41	5	2,497.33
1/4		1/4		1/4		1/4	4,377.25	1/4	4,116.50	1/4	3,833.61	1/4	3,539.30	1/4	3,211.64	1/4	2,850.89	1/4	2,489.81
1/2		1/2		1/2		1/2	4,372.05	1/2	4,110.81	1/2	3,827.48	1/2	3,533.17	1/2	3,204.13	1/2	2,843.36	1/2	2,482.29
3/4		3/4		3/4		3/4	4,366.85	3/4	4,105.12	3/4	3,821.35	3/4	3,527.03	3/4	3,196.61	3/4	2,835.84	3/4	2,474.77
6		6		6		6	4,361.64	6	4,099.43	6	3,815.23	6	3,520.90	6	3,189.10	6	2,828.32	6	2,467.24
1/4		1/4		1/4		1/4	4,356.44	1/4	4,093.74	1/4	3,809.10	1/4	3,514.77	1/4	3,181.58	1/4	2,820.80	1/4	2,459.72
1/2		1/2		1/2		1/2	4,622.50	1/2	4,351.20	1/2	4,088.02	1/2	3,508.64	1/2	3,174.07	1/2	2,813.28	1/2	2,452.20
3/4		3/4		3/4		3/4	4,617.15	3/4	4,345.96	3/4	4,082.29	3/4	3,796.84	3/4	3,502.51	3/4	3,166.55	3/4	2,444.68
7		7		7		7	4,611.81	7	4,340.72	7	4,076.57	7	3,790.71	7	3,496.38	7	3,159.04	7	2,798.23
1/4		1/4		1/4		1/4	4,606.46	1/4	4,335.48	1/4	4,070.84	1/4	3,784.57	1/4	3,490.24	1/4	3,151.52	1/4	2,790.71
1/2		1/2		1/2		1/2	4,599.75	1/2	4,330.21	1/2	4,065.08	1/2	3,778.44	1/2	3,484.11	1/2	3,144.01	1/2	2,783.19
3/4		3/4		3/4		3/4	4,593.03	3/4	4,324.93	3/4	4,059.32	3/4	3,772.31	3/4	3,477.98	3/4	3,136.49	3/4	2,775.66
8		8		8		8	4,586.32	8	4,319.65	8	4,053.56	8	3,766.18	8	3,471.85	8	3,128.98	8	2,768.14
1/4		1/4		1/4		1/4	4,579.60	1/4	4,314.37	1/4	4,047.79	1/4	3,760.05	1/4	3,465.72	1/4	3,121.46	1/4	2,760.62
1/2		1/2		1/2		1/2	4,572.20	1/2	4,309.06	1/2	4,041.99	1/2	3,753.92	1/2	3,459.58	1/2	3,113.95	1/2	2,753.10
3/4		3/4		3/4		3/4	4,564.80	3/4	4,303.74	3/4	4,036.19	3/4	3,747.78	3/4	3,453.45	3/4	3,106.43	3/4	2,745.57
9		9		9		9	4,557.40	9	4,298.43	9	4,030.39	9	3,741.65	9	3,447.32	9	3,098.92	9	2,738.05
1/4		1/4		1/4		1/4	4,550.01	1/4	4,293.11	1/4	4,024.59	1/4	3,735.52	1/4	3,441.19	1/4	3,091.40	1/4	2,730.53
1/2		1/2		1/2		1/2	4,543.91	1/2	4,287.73	1/2	4,018.76	1/2	3,729.39	1/2	3,435.06	1/2	3,083.89	1/2	2,723.01
3/4		3/4		3/4		3/4	4,537.81	3/4	4,282.34	3/4	4,012.92	3/4	3,723.26	3/4	3,428.92	3/4	3,076.37	3/4	2,715.48
10		10		10		10	4,531.72	10	4,276.95	10	4,007.08	10	3,717.12	10	3,422.79	10	3,068.86	10	2,707.96
1/4		1/4		1/4		1/4	4,525.62	1/4	4,271.56	1/4	4,001.24	1/4	3,710.99	1/4	3,416.66	1/4	3,061.34	1/4	2,700.44
1/2		1/2		1/2		1/2	4,519.53	1/2	4,266.14	1/2	3,995.37	1/2	3,704.86	1/2	3,410.53	1/2	3,053.83	1/2	2,692.92
3/4		3/4		3/4		3/4	4,513.43	3/4	4,260.71	3/4	3,989.50	3/4	3,698.73	3/4	3,404.40	3/4	3,046.31	3/4	2,685.39
11		11		11		11	4,507.34	11	4,255.28	11	3,983.62	11	3,692.60	11	3,398.26	11	3,038.80	11	2,677.87
1/4		1/4		1/4		1/4	4,501.24	1/4	4,249.86	1/4	3,977.75	1/4	3,686.46	1/4	3,392.13	1/4	3,031.28	1/4	2,670.35
1/2		1/2		1/2		1/2	4,495.69	1/2	4,244.39	1/2	3,971.83	1/2	3,680.33	1/2	3,384.61	1/2	3,023.77	1/2	2,662.83
3/4		3/4		3/4		3/4	4,490.15	3/4	4,238.93	3/4	3,965.92	3/4	3,674.20	3/4	3,377.09	3/4	3,016.25	3/4	2,655.30

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 390"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,286.71	0	1,926.11	0	1,565.73	0	1,204.81	0	844.10	0	496.63	0	135.79	0		0		0	
1/4	2,279.18	1/4	1,918.61	1/4	1,558.21	1/4	1,197.29	1/4	836.59	1/4	489.39	1/4	128.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,271.66	1/2	1,911.12	1/2	1,550.69	1/2	1,189.77	1/2	829.36	1/2	481.86	1/2	120.75	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,264.14	3/4	1,903.62	3/4	1,543.17	3/4	1,182.25	3/4	822.12	3/4	474.34	3/4	113.22	3/4	3/4	3/4	3/4	3/4	3/4
1	2,256.62	1	1,896.12	1	1,535.65	1	1,174.73	1	814.89	1	466.82	1	105.70	1	1	1	1	1	1
1/4	2,249.10	1/4	1,888.62	1/4	1,528.13	1/4	1,167.21	1/4	807.66	1/4	459.29	1/4	98.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,241.57	1/2	1,881.12	1/2	1,520.61	1/2	1,159.70	1/2	800.43	1/2	451.77	1/2	90.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,234.05	3/4	1,873.62	3/4	1,513.09	3/4	1,152.18	3/4	793.20	3/4	444.25	3/4	83.13	3/4	3/4	3/4	3/4	3/4	3/4
2	2,226.53	2	1,866.12	2	1,505.57	2	1,144.66	2	785.96	2	436.72	2	75.61	2	2	2	2	2	2
1/4	2,219.01	1/4	1,858.62	1/4	1,498.05	1/4	1,137.14	1/4	778.73	1/4	429.20	1/4	68.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,211.48	1/2	1,851.12	1/2	1,490.54	1/2	1,129.62	1/2	771.49	1/2	421.68	1/2	60.83	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,203.96	3/4	1,843.62	3/4	1,483.02	3/4	1,122.10	3/4	764.24	3/4	414.15	3/4	53.57	3/4	3/4	3/4	3/4	3/4	3/4
3	2,196.44	3	1,836.12	3	1,475.50	3	1,114.58	3	757.00	3	406.63	3	46.32	3	3	3	3	3	3
1/4	2,188.92	1/4	1,828.62	1/4	1,467.98	1/4	1,107.06	1/4	749.76	1/4	399.11	1/4	39.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,181.39	1/2	1,821.12	1/2	1,460.46	1/2	1,099.54	1/2	742.53	1/2	391.58	1/2	33.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,173.87	3/4	1,813.62	3/4	1,452.94	3/4	1,092.02	3/4	735.29	3/4	384.06	3/4	28.32	3/4	3/4	3/4	3/4	3/4	3/4
4	2,166.35	4	1,806.12	4	1,445.42	4	1,084.50	4	728.06	4	376.54	4	22.95	4	4	4	4	4	4
1/4	2,158.83	1/4	1,798.62	1/4	1,437.90	1/4	1,076.98	1/4	720.83	1/4	369.01	1/4	17.58	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,151.30	1/2	1,791.13	1/2	1,430.38	1/2	1,069.47	1/2	713.60	1/2	361.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,143.78	3/4	1,783.63	3/4	1,422.86	3/4	1,061.95	3/4	706.36	3/4	353.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,136.26	5	1,776.13	5	1,415.34	5	1,054.43	5	699.13	5	346.45	5		5	5	5	5	5	5
1/4	2,128.74	1/4	1,768.63	1/4	1,407.83	1/4	1,046.91	1/4	691.90	1/4	338.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,121.21	1/2	1,761.13	1/2	1,400.31	1/2	1,039.39	1/2	684.67	1/2	331.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,113.69	3/4	1,753.63	3/4	1,392.79	3/4	1,031.87	3/4	677.43	3/4	323.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,106.17	6	1,746.13	6	1,385.27	6	1,024.35	6	670.20	6	316.35	6		6	6	6	6	6	6
1/4	2,098.65	1/4	1,738.63	1/4	1,377.75	1/4	1,016.83	1/4	662.97	1/4	308.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,091.14	1/2	1,731.12	1/2	1,370.23	1/2	1,009.32	1/2	655.74	1/2	301.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,083.63	3/4	1,723.61	3/4	1,362.71	3/4	1,001.81	3/4	648.51	3/4	293.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,076.11	7	1,716.10	7	1,355.19	7	994.30	7	641.29	7	286.26	7		7	7	7	7	7	7
1/4	2,068.60	1/4	1,708.59	1/4	1,347.67	1/4	986.79	1/4	634.06	1/4	278.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,061.10	1/2	1,701.07	1/2	1,340.15	1/2	979.28	1/2	626.83	1/2	271.21	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.60	3/4	1,693.55	3/4	1,332.63	3/4	971.77	3/4	619.60	3/4	263.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,046.10	8	1,686.03	8	1,325.12	8	964.26	8	612.37	8	256.17	8		8	8	8	8	8	8
1/4	2,038.61	1/4	1,678.51	1/4	1,317.60	1/4	956.75	1/4	605.15	1/4	248.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.11	1/2	1,670.99	1/2	1,310.08	1/2	949.24	1/2	597.91	1/2	241.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.61	3/4	1,663.47	3/4	1,302.56	3/4	941.73	3/4	590.68	3/4	233.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,016.11	9	1,655.96	9	1,295.04	9	934.22	9	583.45	9	226.07	9		9	9	9	9	9	9
1/4	2,008.61	1/4	1,648.44	1/4	1,287.52	1/4	926.71	1/4	576.22	1/4	218.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,001.11	1/2	1,640.92	1/2	1,280.00	1/2	919.20	1/2	568.98	1/2	211.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,993.61	3/4	1,633.40	3/4	1,272.48	3/4	911.69	3/4	561.75	3/4	203.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,986.11	10	1,625.88	10	1,264.96	10	904.18	10	554.52	10	195.98	10		10	10	10	10	10	10
1/4	1,978.61	1/4	1,618.36	1/4	1,257.44	1/4	896.67	1/4	547.29	1/4	188.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.11	1/2	1,610.84	1/2	1,249.92	1/2	889.16	1/2	540.05	1/2	180.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,963.61	3/4	1,603.32	3/4	1,242.41	3/4	881.65	3/4	532.82	3/4	173.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,956.11	11	1,595.80	11	1,234.89	11	874.14	11	525.59	11	165.89	11		11	11	11	11	11	11
1/4	1,948.61	1/4	1,588.28	1/4	1,227.37	1/4	866.63	1/4	518.36	1/4	158.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.11	1/2	1,580.76	1/2	1,219.85	1/2	859.12	1/2	511.11	1/2	150.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,933.61	3/4	1,573.25	3/4	1,212.33	3/4	851.61	3/4	503.87	3/4	143.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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



BARGE "EMS 390"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,483.25	0	4,232.13	0	3,959.23	0	3,667.64	0	3,370.68	0	3,010.57	0	2,650.36		
1/4		1/4		1/4		1/4	4,477.71	1/4	4,226.67	1/4	3,953.32	1/4	3,661.51	1/4	3,363.17	1/4	3,003.07	1/4	2,642.85		
1/2		1/2		1/2		1/2	4,472.17	1/2	4,221.21	1/2	3,947.41	1/2	3,655.38	1/2	3,355.66	1/2	2,995.57	1/2	2,635.34		
3/4		3/4		3/4		3/4	4,467.15	3/4	4,215.71	3/4	3,941.47	3/4	3,649.25	3/4	3,348.16	3/4	2,988.07	3/4	2,627.84		
1		1		1		1	4,462.14	1	4,210.21	1	3,935.52	1	3,643.12	1	3,340.65	1	2,980.57	1	2,620.33		
1/4		1/4		1/4		1/4	4,457.13	1/4	4,204.72	1/4	3,929.57	1/4	3,637.00	1/4	3,333.15	1/4	2,973.07	1/4	2,612.82		
1/2		1/2		1/2		1/2	4,452.11	1/2	4,199.22	1/2	3,923.63	1/2	3,630.87	1/2	3,325.64	1/2	2,965.57	1/2	2,605.32		
3/4		3/4		3/4		3/4	4,447.06	3/4	4,193.68	3/4	3,917.64	3/4	3,624.74	3/4	3,318.13	3/4	2,958.07	3/4	2,597.81		
2		2		2		2	4,442.01	2	4,188.15	2	3,911.66	2	3,618.61	2	3,310.63	2	2,950.57	2	2,590.30		
1/4		1/4		1/4		1/4	4,436.96	1/4	4,182.61	1/4	3,905.67	1/4	3,612.48	1/4	3,303.12	1/4	2,943.07	1/4	2,582.79		
1/2		1/2		1/2		1/2	4,431.91	1/2	4,177.07	1/2	3,899.69	1/2	3,606.35	1/2	3,295.61	1/2	2,935.57	1/2	2,575.29		
3/4		3/4		3/4		3/4	4,426.82	3/4	4,171.50	3/4	3,893.66	3/4	3,600.22	3/4	3,288.11	3/4	2,928.07	3/4	2,567.78		
3		3		3		3	4,421.73	3	4,165.93	3	3,887.64	3	3,594.09	3	3,280.60	3	2,920.57	3	2,560.27		
1/4		1/4		1/4		1/4	4,416.64	1/4	4,160.35	1/4	3,881.62	1/4	3,587.96	1/4	3,273.09	1/4	2,913.07	1/4	2,552.77		
1/2		1/2		1/2		1/2	4,411.56	1/2	4,154.78	1/2	3,875.60	1/2	3,581.83	1/2	3,265.59	1/2	2,905.57	1/2	2,545.26		
3/4		3/4		3/4		3/4	4,406.43	3/4	4,149.17	3/4	3,869.54	3/4	3,575.70	3/4	3,258.08	3/4	2,898.07	3/4	2,537.76		
4		4		4		4	4,401.30	4	4,143.56	4	3,863.48	4	3,569.57	4	3,250.57	4	2,890.57	4	2,530.26		
1/4		1/4		1/4		1/4	4,396.18	1/4	4,137.95	1/4	3,857.42	1/4	3,563.44	1/4	3,243.07	1/4	2,883.07	1/4	2,522.76		
1/2		1/2		1/2		1/2	4,391.05	1/2	4,132.34	1/2	3,851.36	1/2	3,557.31	1/2	3,235.56	1/2	2,875.57	1/2	2,515.27		
3/4		3/4		3/4		3/4	4,385.89	3/4	4,126.69	3/4	3,845.27	3/4	3,551.18	3/4	3,228.06	3/4	2,868.06	3/4	2,507.77		
5		5		5		5	4,380.73	5	4,121.04	5	3,839.17	5	3,545.05	5	3,220.56	5	2,860.56	5	2,500.27		
1/4		1/4		1/4		1/4	4,375.56	1/4	4,115.39	1/4	3,833.07	1/4	3,538.92	1/4	3,213.06	1/4	2,853.05	1/4	2,492.77		
1/2		1/2		1/2		1/2	4,370.40	1/2	4,109.75	1/2	3,826.98	1/2	3,532.80	1/2	3,205.56	1/2	2,845.54	1/2	2,485.27		
3/4		3/4		3/4		3/4	4,365.20	3/4	4,104.06	3/4	3,820.85	3/4	3,526.67	3/4	3,198.07	3/4	2,838.04	3/4	2,477.78		
6		6		6		6	4,360.00	6	4,098.37	6	3,814.73	6	3,520.54	6	3,190.57	6	2,830.53	6	2,470.28		
1/4		1/4		1/4		1/4	4,354.80	1/4	4,092.69	1/4	3,808.61	1/4	3,514.41	1/4	3,183.07	1/4	2,823.02	1/4	2,462.78		
1/2		1/2		1/2		1/2	4,349.60	1/2	4,087.00	1/2	3,802.49	1/2	3,508.28	1/2	3,175.57	1/2	2,815.51	1/2	2,455.28		
3/4		3/4		3/4		3/4	4,615.54	3/4	4,344.36	3/4	4,081.28	3/4	3,796.36	3/4	3,502.15	3/4	3,168.07	3/4	2,447.78		
7		7		7		7	4,610.20	7	4,339.12	7	4,075.56	7	3,790.23	7	3,496.02	7	3,160.57	7	2,440.28		
1/4		1/4		1/4		1/4	4,604.85	1/4	4,333.89	1/4	4,069.84	1/4	3,784.10	1/4	3,489.89	1/4	3,153.07	1/4	2,792.99	1/4	2,432.79
1/2		1/2		1/2		1/2	4,599.51	1/2	4,328.65	1/2	4,064.11	1/2	3,777.97	1/2	3,483.76	1/2	3,145.57	1/2	2,785.49	1/2	2,425.29
3/4		3/4		3/4		3/4	4,592.80	3/4	4,323.37	3/4	4,058.35	3/4	3,771.84	3/4	3,477.63	3/4	3,138.07	3/4	2,777.98	3/4	2,417.79
8		8		8		8	4,586.09	8	4,318.10	8	4,052.59	8	3,765.71	8	3,471.50	8	3,130.57	8	2,770.47	8	2,410.29
1/4		1/4		1/4		1/4	4,579.38	1/4	4,312.82	1/4	4,046.83	1/4	3,759.58	1/4	3,465.37	1/4	3,123.07	1/4	2,762.97	1/4	2,402.79
1/2		1/2		1/2		1/2	4,572.67	1/2	4,307.55	1/2	4,041.07	1/2	3,753.45	1/2	3,459.24	1/2	3,115.57	1/2	2,755.46	1/2	2,395.30
3/4		3/4		3/4		3/4	4,565.27	3/4	4,302.23	3/4	4,035.27	3/4	3,747.32	3/4	3,453.11	3/4	3,108.07	3/4	2,747.95	3/4	2,387.80
9		9		9		9	4,557.88	9	4,296.92	9	4,029.48	9	3,741.20	9	3,446.98	9	3,100.57	9	2,740.44	9	2,380.30
1/4		1/4		1/4		1/4	4,550.48	1/4	4,291.61	1/4	4,023.68	1/4	3,735.07	1/4	3,440.85	1/4	3,093.07	1/4	2,732.94	1/4	2,372.80
1/2		1/2		1/2		1/2	4,543.09	1/2	4,286.30	1/2	4,017.88	1/2	3,728.94	1/2	3,434.73	1/2	3,085.57	1/2	2,725.43	1/2	2,365.30
3/4		3/4		3/4		3/4	4,536.99	3/4	4,280.91	3/4	4,012.05	3/4	3,722.81	3/4	3,428.60	3/4	3,078.07	3/4	2,717.92	3/4	2,357.80
10		10		10		10	4,530.90	10	4,275.52	10	4,006.21	10	3,716.68	10	3,422.47	10	3,070.57	10	2,710.42	10	2,350.31
1/4		1/4		1/4		1/4	4,524.81	1/4	4,270.14	1/4	4,000.38	1/4	3,710.55	1/4	3,416.34	1/4	3,063.07	1/4	2,702.91	1/4	2,342.81
1/2		1/2		1/2		1/2	4,518.72	1/2	4,264.75	1/2	3,994.54	1/2	3,704.42	1/2	3,410.21	1/2	3,055.57	1/2	2,695.40	1/2	2,335.31
3/4		3/4		3/4		3/4	4,512.62	3/4	4,259.33	3/4	3,988.67	3/4	3,698.29	3/4	3,404.08	3/4	3,048.07	3/4	2,687.89	3/4	2,327.81
11		11		11		11	4,506.53	11	4,253.90	11	3,982.80	11	3,692.16	11	3,397.95	11	3,040.57	11	2,680.39	11	2,320.31
1/4		1/4		1/4		1/4	4,500.44	1/4	4,248.48	1/4	3,976.92	1/4	3,686.03	1/4	3,391.82	1/4	3,033.07	1/4	2,672.88	1/4	2,312.81
1/2		1/2		1/2		1/2	4,494.34	1/2	4,243.06	1/2	3,971.05	1/2	3,679.90	1/2	3,385.69	1/2	3,025.57	1/2	2,665.37	1/2	2,305.32
3/4		3/4		3/4		3/4	4,488.80	3/4	4,237.59	3/4	3,965.14	3/4	3,673.77	3/4	3,378.18	3/4	3,018.07	3/4	2,657.87	3/4	2,297.81

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 390"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,290.30	0	1,931.42	0	1,573.23	0	1,212.97	0	852.71	0	503.02	0	143.08	0		0		0	
1/4	2,282.79	1/4	1,923.99	1/4	1,565.72	1/4	1,205.46	1/4	845.20	1/4	495.74	1/4	135.58	1/4		1/4		1/4	
1/2	2,275.28	1/2	1,916.56	1/2	1,558.22	1/2	1,197.96	1/2	837.70	1/2	488.46	1/2	128.07	1/2		1/2		1/2	
3/4	2,267.77	3/4	1,909.12	3/4	1,550.71	3/4	1,190.45	3/4	830.41	3/4	480.95	3/4	120.56	3/4		3/4		3/4	
1	2,260.26	1	1,901.69	1	1,543.21	1	1,182.95	1	823.13	1	473.44	1	113.05	1		1		1	
1/4	2,252.76	1/4	1,894.26	1/4	1,535.70	1/4	1,175.44	1/4	815.85	1/4	465.93	1/4	105.54	1/4		1/4		1/4	
1/2	2,245.25	1/2	1,886.83	1/2	1,528.19	1/2	1,167.94	1/2	808.56	1/2	458.42	1/2	98.04	1/2		1/2		1/2	
3/4	2,237.74	3/4	1,879.40	3/4	1,520.69	3/4	1,160.43	3/4	801.28	3/4	450.92	3/4	90.53	3/4		3/4		3/4	
2	2,230.23	2	1,871.97	2	1,513.18	2	1,152.92	2	794.00	2	443.41	2	83.02	2		2		2	
1/4	2,222.72	1/4	1,864.53	1/4	1,505.68	1/4	1,145.42	1/4	786.71	1/4	435.90	1/4	75.51	1/4		1/4		1/4	
1/2	2,215.21	1/2	1,857.10	1/2	1,498.17	1/2	1,137.91	1/2	779.43	1/2	428.39	1/2	68.00	1/2		1/2		1/2	
3/4	2,207.70	3/4	1,849.67	3/4	1,490.67	3/4	1,130.41	3/4	772.14	3/4	420.88	3/4	60.76	3/4		3/4		3/4	
3	2,200.19	3	1,842.24	3	1,483.16	3	1,122.90	3	764.86	3	413.38	3	53.52	3		3		3	
1/4	2,192.69	1/4	1,834.81	1/4	1,475.66	1/4	1,115.40	1/4	757.58	1/4	405.87	1/4	46.29	1/4		1/4		1/4	
1/2	2,185.18	1/2	1,827.38	1/2	1,468.15	1/2	1,107.89	1/2	750.29	1/2	398.36	1/2	39.05	1/2		1/2		1/2	
3/4	2,177.67	3/4	1,819.94	3/4	1,460.65	3/4	1,100.39	3/4	743.02	3/4	390.85	3/4	33.68	3/4		3/4		3/4	
4	2,170.16	4	1,812.51	4	1,453.14	4	1,092.88	4	735.75	4	383.34	4	28.31	4		4		4	
1/4	2,162.65	1/4	1,805.08	1/4	1,445.64	1/4	1,085.38	1/4	728.47	1/4	375.84	1/4	22.94	1/4		1/4		1/4	
1/2	2,155.14	1/2	1,797.65	1/2	1,438.13	1/2	1,077.87	1/2	721.20	1/2	368.33	1/2	17.57	1/2		1/2		1/2	
3/4	2,147.63	3/4	1,790.22	3/4	1,430.62	3/4	1,070.37	3/4	713.93	3/4	360.82	3/4		3/4		3/4		3/4	
5	2,140.13	5	1,782.79	5	1,423.12	5	1,062.86	5	706.65	5	353.31	5		5		5		5	
1/4	2,132.62	1/4	1,775.35	1/4	1,415.61	1/4	1,055.35	1/4	699.38	1/4	345.80	1/4		1/4		1/4		1/4	
1/2	2,125.11	1/2	1,767.92	1/2	1,408.11	1/2	1,047.85	1/2	692.11	1/2	338.29	1/2		1/2		1/2		1/2	
3/4	2,117.60	3/4	1,760.49	3/4	1,400.60	3/4	1,040.34	3/4	684.83	3/4	330.79	3/4		3/4		3/4		3/4	
6	2,110.09	6	1,753.06	6	1,393.10	6	1,032.84	6	677.56	6	323.28	6		6		6		6	
1/4	2,102.58	1/4	1,745.63	1/4	1,385.59	1/4	1,025.33	1/4	670.29	1/4	315.77	1/4		1/4		1/4		1/4	
1/2	2,095.07	1/2	1,738.20	1/2	1,378.09	1/2	1,017.83	1/2	663.01	1/2	308.26	1/2		1/2		1/2		1/2	
3/4	2,087.60	3/4	1,730.73	3/4	1,370.58	3/4	1,010.32	3/4	655.75	3/4	300.75	3/4		3/4		3/4		3/4	
7	2,080.13	7	1,723.26	7	1,363.08	7	1,002.82	7	648.48	7	293.25	7		7		7		7	
1/4	2,072.66	1/4	1,715.79	1/4	1,355.57	1/4	995.31	1/4	641.21	1/4	285.74	1/4		1/4		1/4		1/4	
1/2	2,065.19	1/2	1,708.32	1/2	1,348.07	1/2	987.81	1/2	633.94	1/2	278.23	1/2		1/2		1/2		1/2	
3/4	2,057.76	3/4	1,700.82	3/4	1,340.56	3/4	980.30	3/4	626.67	3/4	270.72	3/4		3/4		3/4		3/4	
8	2,050.33	8	1,693.31	8	1,333.05	8	972.80	8	619.40	8	263.21	8		8		8		8	
1/4	2,042.90	1/4	1,685.81	1/4	1,325.55	1/4	965.29	1/4	612.13	1/4	255.71	1/4		1/4		1/4		1/4	
1/2	2,035.46	1/2	1,678.30	1/2	1,318.04	1/2	957.78	1/2	604.86	1/2	248.20	1/2		1/2		1/2		1/2	
3/4	2,028.03	3/4	1,670.80	3/4	1,310.54	3/4	950.28	3/4	597.59	3/4	240.69	3/4		3/4		3/4		3/4	
9	2,020.60	9	1,663.29	9	1,303.03	9	942.77	9	590.32	9	233.18	9		9		9		9	
1/4	2,013.17	1/4	1,655.79	1/4	1,295.53	1/4	935.27	1/4	583.04	1/4	225.67	1/4		1/4		1/4		1/4	
1/2	2,005.74	1/2	1,648.28	1/2	1,288.02	1/2	927.76	1/2	575.77	1/2	218.17	1/2		1/2		1/2		1/2	
3/4	1,998.31	3/4	1,640.78	3/4	1,280.52	3/4	920.26	3/4	568.50	3/4	210.66	3/4		3/4		3/4		3/4	
10	1,990.87	10	1,633.27	10	1,273.01	10	912.75	10	561.22	10	203.15	10		10		10		10	
1/4	1,983.44	1/4	1,625.76	1/4	1,265.51	1/4	905.25	1/4	553.95	1/4	195.64	1/4		1/4		1/4		1/4	
1/2	1,976.01	1/2	1,618.26	1/2	1,258.00	1/2	897.74	1/2	546.68	1/2	188.13	1/2		1/2		1/2		1/2	
3/4	1,968.58	3/4	1,610.75	3/4	1,250.49	3/4	890.24	3/4	539.40	3/4	180.62	3/4		3/4		3/4		3/4	
11	1,961.15	11	1,603.25	11	1,242.99	11	882.73	11	532.13	11	173.12	11		11		11		11	
1/4	1,953.71	1/4	1,595.74	1/4	1,235.48	1/4	875.22	1/4	524.86	1/4	165.61	1/4		1/4		1/4		1/4	
1/2	1,946.28	1/2	1,588.24	1/2	1,227.98	1/2	867.72	1/2	517.58	1/2	158.10	1/2		1/2		1/2		1/2	
3/4	1,938.85	3/4	1,580.73	3/4	1,220.47	3/4	860.21	3/4	510.30	3/4	150.59	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2015 SW
CALCULATED: 02/19/2015 CL
PRINTED: 02/20/2015 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2015

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