BARGE "EMS 396"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	00-1/4	- 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	01-1/2	- 01-1/2
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	01-1/2	- 01-1/2
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	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"

May 17, 2016

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

http://www.pmacorp.net

BARGE "EMS 396"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,237.62	0	3,946.02	0	3,634.64	0	3,305.89	0	2,974.54	0	2,643.16	0	2,311.77
1/4		1/4		1/4		1/4	4,231.26	1/4	3,939.73	1/4	3,627.94	1/4	3,298.99	1/4	2,967.63	1/4	2,636.26	1/4	2,304.86
1/2		1/2		1/2		1/2	4,224.90	1/2	3,933.44	1/2	3,621.24	1/2	3,292.08	1/2	2,960.73	1/2	2,629.35	1/2	2,297.96
3/4		3/4		3/4		3/4	4,218.55	3/4	3,927.15	3/4	3,614.54	3/4	3,285.18	3/4	2,953.83	3/4	2,622.45	3/4	2,291.05
1		1		1		1	4,212.67	1	3,920.82	1	3,607.80	1	3,278.28	1	2,946.92	1	2,615.55	1	2,284.15
1/4		1/4		1/4		1/4	4,206.80	1/4	3,914.50	1/4	3,601.07	1/4	3,271.37	1/4	2,940.02	1/4	2,608.64	1/4	2,277.25
1/2		1/2		1/2		1/2	4,200.93	1/2	3,908.18	1/2	3,594.33	1/2	3,264.47	1/2	2,933.12	1/2	2,601.74	1/2	2,270.34
3/4		3/4		3/4		3/4	4,195.06	3/4	3,901.85	3/4	3,587.60	3/4	3,257.57	3/4	2,926.21	3/4	2,594.83	3/4	2,263.44
2		2		2		2	4,189.15	2	3,895.49	2	3,580.82	2	3,250.66	2	2,919.31	2	2,587.93	2	2,256.53
1/4		1/4		1/4		1/4	4,183.24	1/4	3,889.14	1/4	3,574.05	1/4	3,243.76	1/4	2,912.41	1/4	2,581.03	1/4	2,249.63
1/2		1/2		1/2		1/2	4,177.34	1/2	3,882.78	1/2	3,567.28	1/2	3,236.86	1/2	2,905.50	1/2	2,574.12	1/2	2,242.72
3/4		3/4		3/4		3/4	4,171.43	3/4	3,876.42	3/4	3,560.51	3/4	3,229.95	3/4	2,898.60	3/4	2,567.22	3/4	2,235.82
3		3		3		3	4,165.49	3	3,870.03	3	3,553.71	3	3,223.05	3	2,891.70	3	2,560.31	3	2,228.92
1/4		1/4		1/4		1/4	4,159.55	1/4	3,863.63	1/4	3,546.91	1/4	3,216.15	1/4	2,884.79	1/4	2,553.41	1/4	2,222.01
1/2		1/2		1/2		1/2	4,153.61	1/2	3,857.24	1/2	3,540.10	1/2	3,209.24	1/2	2,877.89	1/2	2,546.51	1/2	2,215.11
3/4		3/4		3/4		3/4	4,147.67	3/4	3,850.85	3/4	3,533.30	3/4	3,202.34	3/4	2,870.99	3/4	2,539.60	3/4	2,208.20
4		4		4		4	4,141.69	4	3,844.42	4	3,526.46	4	3,195.44	4	2,864.08	4	2,532.70	4	2,201.30
1/4		1/4		1/4		1/4	4,135.72	1/4	3,838.00	1/4	3,519.62	1/4	3,188.53	1/4	2,857.18	1/4	2,525.79	1/4	2,194.40
1/2		1/2		1/2		1/2	4,129.74	1/2	3,831.57	1/2	3,512.78	1/2	3,181.63	1/2	2,850.28	1/2	2,518.89	1/2	2,187.49
3/4		3/4		3/4		3/4	4,123.77	3/4	3,825.14	3/4	3,505.94	3/4	3,174.73	3/4	2,843.37	3/4	2,511.98	3/4	2,180.59
5		5		5		5	4,117.76	5	3,818.68	5	3,499.07	5	3,167.82	5	2,836.47	5	2,505.08	5	2,173.68
1/4		1/4		1/4		1/4	4,111.75	1/4	3,812.22	1/4	3,492.20	1/4	3,160.92	1/4	2,829.57	1/4	2,498.18	1/4	2,166.78
1/2		1/2		1/2		1/2	4,105.74	1/2	3,805.76	1/2	3,485.32	1/2	3,154.02	1/2	2,822.66	1/2	2,491.27	1/2	2,159.88
3/4		3/4		3/4		3/4	4,099.73	3/4	3,799.30	3/4	3,478.45	3/4	3,147.12	3/4	2,815.76	3/4	2,484.37	3/4	2,152.97
6		6		6		6	4,093.69	6	3,792.80	6	3,471.55	6	3,140.21	6	2,808.86	6	2,477.46	6	2,146.07
1/4		1/4		1/4		1/4	4,087.65	1/4	3,786.31	1/4	3,464.65	1/4	3,133.31	1/4	2,801.96	1/4	2,470.56	1/4	2,139.16
1/2		1/2		1/2		1/2	4,081.60	1/2	3,779.81	1/2	3,457.75	1/2	3,126.41	1/2	2,795.05	1/2	2,463.66	1/2	2,132.26
3/4		3/4		3/4		3/4	4,075.56	3/4	3,773.31	3/4	3,450.86	3/4	3,119.50	3/4	2,788.15	3/4	2,456.75	3/4	2,125.36
7		7		7	4,365.41	7	4,069.48	7	3,766.78	7	3,443.95	7	3,112.60	7	2,781.24	7	2,449.85	7	2,118.45
1/4		1/4		1/4	4,360.50	1/4	4,063.40	1/4	3,760.25	1/4	3,437.05	1/4	3,105.70	1/4	2,774.34	1/4	2,442.94	1/4	2,111.55
1/2		1/2		1/2	4,355.60	1/2	4,057.32	1/2	3,753.73	1/2	3,430.15	1/2	3,098.79	1/2	2,767.44	1/2	2,436.04	1/2	2,104.64
3/4		3/4		3/4	4,350.69	3/4	4,051.25	3/4	3,747.20	3/4	3,423.24	3/4	3,091.89	3/4	2,760.53	3/4	2,429.14	3/4	2,097.74
8		8		8	4,344.53	8	4,045.13	8	3,740.63	8	3,416.34	8	3,084.99	8	2,753.63	8	2,422.23	8	2,090.83
1/4		1/4		1/4	4,338.37	1/4	4,039.02	1/4	3,734.07	1/4	3,409.44	1/4	3,078.08	1/4	2,746.72	1/4	2,415.33	1/4	2,083.93
1/2		1/2		1/2	4,332.21	1/2	4,032.91	1/2	3,727.50	1/2	3,402.53	1/2	3,071.18	1/2	2,739.82	1/2	2,408.42	1/2	2,077.03
3/4		3/4		3/4	4,326.05	3/4	4,026.80	3/4	3,720.94	3/4	3,395.63	3/4	3,064.28	3/4	2,732.92	3/4	2,401.52	3/4	2,070.12
9		9		9	4,319.26	9	4,020.65	9	3,714.34	9	3,388.73	9	3,057.37	9	2,726.01	9	2,394.61	9	2,063.22
1/4		1/4		1/4	4,312.47	1/4	4,014.50	1/4	3,707.74	1/4	3,381.82	1/4	3,050.47	1/4	2,719.11	1/4	2,387.71	1/4	2,056.31
1/2		1/2		1/2	4,305.68	1/2	4,008.36	1/2	3,701.14	1/2	3,374.92	1/2	3,043.57	1/2	2,712.20	1/2	2,380.81	1/2	2,049.41
3/4		3/4		3/4	4,298.89	3/4	4,002.21	3/4	3,694.54	3/4	3,368.02	3/4	3,036.66	3/4	2,705.30	3/4	2,373.90	3/4	2,042.51
10		10		10	4,292.02	10	3,995.99	10	3,687.91	10	3,361.11	10	3,029.76	10	2,698.40	10	2,367.00	10	2,035.60
1/4		1/4		1/4	4,285.16	1/4	3,989.77	1/4	3,681.28	1/4	3,354.21	1/4	3,022.86	1/4	2,691.49	1/4	2,360.09	1/4	2,028.70
1/2		1/2		1/2	4,278.30	1/2	3,983.55	1/2	3,674.65	1/2	3,347.31	1/2	3,015.95	1/2	2,684.59	1/2	2,353.19	1/2	2,021.79
3/4		3/4		3/4	4,271.43	3/4	3,977.33	3/4	3,668.01	3/4	3,340.40	3/4	3,009.05	3/4	2,677.68	3/4	2,346.29	3/4	2,014.89
11		11		11	4,264.57	11	3,971.07	11	3,661.35	11	3,333.50	11	3,002.15	11	2,670.78	11	2,339.38	11	2,007.99
1/4		1/4		1/4	4,257.71	1/4	3,964.82	1/4	3,654.68	1/4	3,326.60	1/4	2,995.24	1/4	2,663.87	1/4	2,332.48	1/4	2,001.08
1/2		1/2		1/2	4,250.85	1/2	3,958.56	1/2	3,648.01	1/2	3,319.70	1/2	2,988.34	1/2	2,656.97	1/2	2,325.57	1/2	1,994.18
3/4		3/4		3/4	4,243.98	3/4	3,952.31	3/4	3,641.34	3/4	3,312.79	3/4	2,981.44	3/4	2,650.07	3/4	2,318.67	3/4	1,987.27

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.
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BARGE "EMS 396"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	1,980.37	0	1,648.97	0	1,317.58	0	986.35	0	671.00	0	377.50	0	107.61	0		0		0	
1/4	1,973.46	1/4	1,642.07	1/4	1,310.67	1/4	979.53	1/4	664.65	1/4	371.64	1/4	102.25	1/4		1/4		1/4	
1/2	1,966.56	1/2	1,635.16	1/2	1,303.77	1/2	972.71	1/2	658.30	1/2	365.78	1/2	96.88	1/2		1/2		1/2	
3/4	1,959.66	3/4	1,628.26	3/4	1,296.86	3/4	965.89	3/4	651.95	3/4	359.93	3/4	91.52	3/4		3/4		3/4	
1	1,952.75	1	1,621.36	1	1,289.96	1	959.12	1	645.64	1	354.11	1	86.19	1		1		1	
1/4	1,945.85	1/4	1,614.45	1/4	1,283.05	1/4	952.34	1/4	639.33	1/4	348.29	1/4	80.86	1/4		1/4		1/4	
1/2	1,938.94	1/2	1,607.55	1/2	1,276.15	1/2	945.56	1/2	633.02	1/2	342.47	1/2	75.54	1/2		1/2		1/2	
3/4	1,932.04	3/4	1,600.64	3/4	1,269.25	3/4	938.78	3/4	626.71	3/4	336.66	3/4	70.21	3/4		3/4		3/4	
2	1,925.14	2	1,593.74	2	1,262.34	2	932.07	2	620.45	2	330.88	2	64.93	2		2		2	
1/4	1,918.23	1/4	1,586.84	1/4	1,255.44	1/4	925.35	1/4	614.18	1/4	325.10	1/4	59.64	1/4		1/4		1/4	
1/2	1,911.33	1/2	1,579.93	1/2	1,248.53	1/2	918.63	1/2	607.91	1/2	319.33	1/2	54.36	1/2		1/2		1/2	
3/4	1,904.42	3/4	1,573.03	3/4	1,241.63	3/4	911.91	3/4	601.64	3/4	313.55	3/4	49.08	3/4		3/4		3/4	
3	1,897.52	3	1,566.12	3	1,234.73	3	905.23	3	595.41	3	307.81	3	44.08	3		3		3	
1/4	1,890.62	1/4	1,559.22	1/4	1,227.82	1/4	898.56	1/4	589.19	1/4	302.08	1/4	39.08	1/4		1/4		1/4	
1/2	1,883.71	1/2	1,552.31	1/2	1,220.92	1/2	891.88	1/2	582.96	1/2	296.34	1/2	34.09	1/2		1/2		1/2	
3/4	1,876.81	3/4	1,545.41	3/4	1,214.01	3/4	885.20	3/4	576.73	3/4	290.61	3/4	29.09	3/4		3/4		3/4	
4	1,869.90	4	1,538.51	4	1,207.11	4	878.56	4	570.54	4	284.91	4	25.86	4		4		4	
1/4	1,863.00	1/4	1,531.60	1/4	1,200.21	1/4	871.93	1/4	564.36	1/4	279.22	1/4	22.63	1/4		1/4		1/4	
1/2	1,856.10	1/2	1,524.70	1/2	1,193.30	1/2	865.29	1/2	558.17	1/2	273.53	1/2	19.40	1/2		1/2		1/2	
3/4	1,849.19	3/4	1,517.79	3/4	1,186.40	3/4	858.65	3/4	551.99	3/4	267.83	3/4	16.18	3/4		3/4		3/4	
5	1,842.29	5	1,510.89	5	1,179.49	5	852.06	5	545.84	5	262.18	5		5		5		5	
1/4	1,835.38	1/4	1,503.99	1/4	1,172.59	1/4	845.47	1/4	539.69	1/4	256.52	1/4		1/4		1/4		1/4	
1/2	1,828.48	1/2	1,497.08	1/2	1,165.69	1/2	838.88	1/2	533.55	1/2	250.87	1/2		1/2		1/2		1/2	
3/4	1,821.57	3/4	1,490.18	3/4	1,158.78	3/4	832.29	3/4	527.40	3/4	245.22	3/4		3/4		3/4		3/4	
6	1,814.67	6	1,483.27	6	1,151.88	6	825.74	6	521.30	6	239.61	6		6		6		6	
1/4	1,807.77	1/4	1,476.37	1/4	1,144.97	1/4	819.19	1/4	515.20	1/4	233.99	1/4		1/4		1/4		1/4	
1/2	1,800.86	1/2	1,469.47	1/2	1,138.07	1/2	812.64	1/2	509.09	1/2	228.38	1/2		1/2		1/2		1/2	
3/4	1,793.96	3/4	1,462.56	3/4	1,131.16	3/4	806.09	3/4	502.99	3/4	222.77	3/4		3/4		3/4		3/4	
7	1,787.05	7	1,455.66	7	1,124.26	7	799.58	7	496.92	7	217.20	7		7		7		7	
1/4	1,780.15	1/4	1,448.75	1/4	1,117.36	1/4	793.06	1/4	490.86	1/4	211.63	1/4		1/4		1/4		1/4	
1/2	1,773.25	1/2	1,441.85	1/2	1,110.45	1/2	786.55	1/2	484.80	1/2	206.05	1/2		1/2		1/2		1/2	
3/4	1,766.34	3/4	1,434.95	3/4	1,103.55	3/4	780.03	3/4	478.73	3/4	200.48	3/4		3/4		3/4		3/4	
8	1,759.44	8	1,428.04	8	1,096.64	8	773.56	8	472.71	8	194.95	8		8		8		8	
1/4	1,752.53	1/4	1,421.14	1/4	1,089.74	1/4	767.09	1/4	466.69	1/4	189.42	1/4		1/4		1/4		1/4	
1/2	1,745.63	1/2	1,414.23	1/2	1,082.84	1/2	760.62	1/2	460.67	1/2	183.89	1/2		1/2		1/2		1/2	
3/4	1,738.73	3/4	1,407.33	3/4	1,075.93	3/4	754.14	3/4	454.64	3/4	178.36	3/4		3/4		3/4		3/4	
9	1,731.82	9	1,400.42	9	1,069.03	9	747.71	9	448.66	9	172.87	9		9		9		9	
1/4	1,724.92	1/4	1,393.52	1/4	1,062.12	1/4	741.28	1/4	442.68	1/4	167.38	1/4		1/4		1/4		1/4	
1/2	1,718.01	1/2	1,386.62	1/2	1,055.22	1/2	734.85	1/2	436.70	1/2	161.89	1/2		1/2		1/2		1/2	
3/4	1,711.11	3/4	1,379.71	3/4	1,048.32	3/4	728.42	3/4	430.72	3/4	156.40	3/4		3/4		3/4		3/4	
10	1,704.20	10	1,372.81	10	1,041.41	10	722.01	10	424.78	10	150.96	10		10		10		10	
1/4	1,697.30	1/4	1,365.90	1/4	1,034.51	1/4	715.61	1/4	418.84	1/4	145.51	1/4		1/4		1/4		1/4	
1/2	1,690.40	1/2	1,359.00	1/2	1,027.60	1/2	709.21	1/2	412.90	1/2	140.06	1/2		1/2		1/2		1/2	
3/4	1,683.49	3/4	1,352.10	3/4	1,020.70	3/4	702.80	3/4	406.96	3/4	134.61	3/4		3/4		3/4		3/4	
11	1,676.59	11	1,345.19	11	1,013.82	11	696.44	11	401.06	11	129.20	11		11		11		11	
1/4	1,669.68	1/4	1,338.29	1/4	1,006.93	1/4	690.08	1/4	395.16	1/4	123.80	1/4		1/4		1/4		1/4	
1/2	1,662.78	1/2	1,331.38	1/2	1,000.05	1/2	683.72	1/2	389.26	1/2	118.39	1/2		1/2		1/2		1/2	
3/4	1,655.88	3/4	1,324.48	3/4	993.16	3/4	677.35	3/4	383.36	3/4	112.98	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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

BARGE "EMS 396"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
		0		0		0	4,224.91	0	3,933.17	0	3,620.20	0	3,290.45	0	2,958.71	0	2,626.94	0	2,295.14
1/4		1/4		1/4		1/4	4,219.03	1/4	3,926.84	1/4	3,613.45	1/4	3,283.54	1/4	2,951.80	1/4	2,620.03	1/4	2,288.23
1/2		1/2		1/2		1/2	4,213.15	1/2	3,920.51	1/2	3,606.71	1/2	3,276.63	1/2	2,944.89	1/2	2,613.11	1/2	2,281.31
3/4		3/4		3/4		3/4	4,207.28	3/4	3,914.18	3/4	3,599.96	3/4	3,269.72	3/4	2,937.98	3/4	2,606.20	3/4	2,274.40
1		1		1		1	4,201.40	1	3,907.85	1	3,593.22	1	3,262.81	1	2,931.06	1	2,599.29	1	2,267.49
1/4		1/4		1/4		1/4	4,195.48	1/4	3,901.48	1/4	3,586.44	1/4	3,255.90	1/4	2,924.15	1/4	2,592.38	1/4	2,260.58
1/2		1/2		1/2		1/2	4,189.57	1/2	3,895.12	1/2	3,579.66	1/2	3,248.98	1/2	2,917.24	1/2	2,585.46	1/2	2,253.66
3/4		3/4		3/4		3/4	4,183.66	3/4	3,888.75	3/4	3,572.88	3/4	3,242.07	3/4	2,910.33	3/4	2,578.55	3/4	2,246.75
2		2		2		2	4,177.74	2	3,882.39	2	3,566.11	2	3,235.16	2	2,903.42	2	2,571.64	2	2,239.84
1/4		1/4		1/4		1/4	4,171.80	1/4	3,875.99	1/4	3,559.29	1/4	3,228.25	1/4	2,896.51	1/4	2,564.73	1/4	2,232.93
1/2		1/2		1/2		1/2	4,165.85	1/2	3,869.59	1/2	3,552.48	1/2	3,221.34	1/2	2,889.60	1/2	2,557.81	1/2	2,226.01
3/4		3/4		3/4		3/4	4,159.90	3/4	3,863.19	3/4	3,545.67	3/4	3,214.43	3/4	2,882.69	3/4	2,550.90	3/4	2,219.10
3		3		3		3	4,153.95	3	3,856.79	3	3,538.86	3	3,207.52	3	2,875.77	3	2,543.99	3	2,212.19
1/4		1/4		1/4		1/4	4,147.97	1/4	3,850.35	1/4	3,532.01	1/4	3,200.61	1/4	2,868.86	1/4	2,537.08	1/4	2,205.28
1/2		1/2		1/2		1/2	4,141.99	1/2	3,843.92	1/2	3,525.16	1/2	3,193.69	1/2	2,861.95	1/2	2,530.16	1/2	2,198.36
3/4		3/4		3/4		3/4	4,136.01	3/4	3,837.48	3/4	3,518.31	3/4	3,186.78	3/4	2,855.04	3/4	2,523.25	3/4	2,191.45
4		4		4		4	4,130.03	4	3,831.05	4	3,511.47	4	3,179.87	4	2,848.13	4	2,516.34	4	2,184.54
1/4		1/4		1/4		1/4	4,124.01	1/4	3,824.58	1/4	3,504.59	1/4	3,172.96	1/4	2,841.22	1/4	2,509.43	1/4	2,177.63
1/2		1/2		1/2		1/2	4,117.99	1/2	3,818.11	1/2	3,497.71	1/2	3,166.05	1/2	2,834.31	1/2	2,502.51	1/2	2,170.71
3/4		3/4		3/4		3/4	4,111.98	3/4	3,811.64	3/4	3,490.82	3/4	3,159.14	3/4	2,827.40	3/4	2,495.60	3/4	2,163.80
5		5		5		5	4,105.96	5	3,805.17	5	3,483.94	5	3,152.23	5	2,820.48	5	2,488.69	5	2,156.89
1/4		1/4		1/4		1/4	4,099.91	1/4	3,798.67	1/4	3,477.04	1/4	3,145.31	1/4	2,813.57	1/4	2,481.78	1/4	2,149.98
1/2		1/2		1/2		1/2	4,093.86	1/2	3,792.17	1/2	3,470.13	1/2	3,138.40	1/2	2,806.66	1/2	2,474.86	1/2	2,143.06
3/4		3/4		3/4		3/4	4,087.81	3/4	3,785.66	3/4	3,463.23	3/4	3,131.49	3/4	2,799.75	3/4	2,467.95	3/4	2,136.15
6		6		6		6	4,081.76	6	3,779.16	6	3,456.32	6	3,124.58	6	2,792.84	6	2,461.04	6	2,129.24
1/4		1/4		1/4	4,371.96	1/4	4,075.67	1/4	3,772.62	1/4	3,449.41	1/4	3,117.67	1/4	2,785.93	1/4	2,454.13	1/4	2,122.33
1/2		1/2		1/2	4,367.05	1/2	4,069.59	1/2	3,766.08	1/2	3,442.50	1/2	3,110.76	1/2	2,779.01	1/2	2,447.21	1/2	2,115.41
3/4		3/4		3/4	4,362.13	3/4	4,063.50	3/4	3,759.55	3/4	3,435.59	3/4	3,103.85	3/4	2,772.10	3/4	2,440.30	3/4	2,108.50
7		7		7	4,357.22	7	4,057.42	7	3,753.01	7	3,428.68	7	3,096.94	7	2,765.19	7	2,433.39	7	2,101.59
1/4		1/4		1/4	4,351.05	1/4	4,051.30	1/4	3,746.44	1/4	3,421.77	1/4	3,090.02	1/4	2,758.28	1/4	2,426.48	1/4	2,094.68
1/2		1/2		1/2	4,344.88	1/2	4,045.18	1/2	3,739.87	1/2	3,414.86	1/2	3,083.11	1/2	2,751.36	1/2	2,419.56	1/2	2,087.76
3/4		3/4		3/4	4,338.71	3/4	4,039.06	3/4	3,733.29	3/4	3,407.94	3/4	3,076.20	3/4	2,744.45	3/4	2,412.65	3/4	2,080.85
8		8		8	4,332.54	8	4,032.94	8	3,726.72	8	3,401.03	8	3,069.29	8	2,737.54	8	2,405.74	8	2,073.94
1/4		1/4		1/4	4,325.74	1/4	4,026.79	1/4	3,720.12	1/4	3,394.12	1/4	3,062.38	1/4	2,730.63	1/4	2,398.83	1/4	2,067.03
1/2		1/2		1/2	4,318.95	1/2	4,020.63	1/2	3,713.51	1/2	3,387.21	1/2	3,055.47	1/2	2,723.71	1/2	2,391.91	1/2	2,060.11
3/4		3/4		3/4	4,312.15	3/4	4,014.48	3/4	3,706.90	3/4	3,380.30	3/4	3,048.56	3/4	2,716.80	3/4	2,385.00	3/4	2,053.20
9		9		9	4,305.35	9	4,008.33	9	3,700.30	9	3,373.39	9	3,041.65	9	2,709.89	9	2,378.09	9	2,046.29
1/4		1/4		1/4	4,298.48	1/4	4,002.10	1/4	3,693.66	1/4	3,366.48	1/4	3,034.73	1/4	2,702.98	1/4	2,371.18	1/4	2,039.38
1/2		1/2		1/2	4,291.61	1/2	3,995.87	1/2	3,687.01	1/2	3,359.57	1/2	3,027.82	1/2	2,696.06	1/2	2,364.26	1/2	2,032.46
3/4		3/4		3/4	4,284.74	3/4	3,989.64	3/4	3,680.37	3/4	3,352.65	3/4	3,020.91	3/4	2,689.15	3/4	2,357.35	3/4	2,025.55
10		10		10	4,277.86	10	3,983.41	10	3,673.73	10	3,345.74	10	3,014.00	10	2,682.24	10	2,350.44	10	2,018.64
1/4		1/4		1/4	4,270.99	1/4	3,977.15	1/4	3,667.06	1/4	3,338.83	1/4	3,007.09	1/4	2,675.33	1/4	2,343.53	1/4	2,011.73
1/2		1/2		1/2	4,264.12	1/2	3,970.89	1/2	3,660.38	1/2	3,331.92	1/2	3,000.18	1/2	2,668.41	1/2	2,336.61	1/2	2,004.81
3/4		3/4		3/4	4,257.25	3/4	3,964.63	3/4	3,653.71	3/4	3,325.01	3/4	2,993.27	3/4	2,661.50	3/4	2,329.70	3/4	1,997.90
11		11		11	4,250.38	11	3,958.36	11	3,647.03	11	3,318.10	11	2,986.36	11	2,654.59	11	2,322.79	11	1,990.99
1/4		1/4		1/4	4,244.01	1/4	3,952.07	1/4	3,640.32	1/4	3,311.19	1/4	2,979.44	1/4	2,647.68	1/4	2,315.88	1/4	1,984.08
1/2		1/2		1/2	4,237.65	1/2	3,945.77	1/2	3,633.61	1/2	3,304.27	1/2	2,972.53	1/2	2,640.76	1/2	2,308.96	1/2	1,977.16
3/4		3/4		3/4	4,231.28	3/4	3,939.47	3/4	3,626.90	3/4	3,297.36	3/4	2,965.62	3/4	2,633.85	3/4	2,302.05	3/4	1,970.25

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 396"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	1,963.34	0	1,631.54	0	1,299.74	0	968.27	0	652.70	0	360.34	0	91.62	0		0		0	
1/4	1,956.43	1/4	1,624.63	1/4	1,292.83	1/4	961.46	1/4	646.39	1/4	354.51	1/4	86.29	1/4		1/4		1/4	
1/2	1,949.51	1/2	1,617.71	1/2	1,285.91	1/2	954.65	1/2	640.07	1/2	348.69	1/2	80.96	1/2		1/2		1/2	
3/4	1,942.60	3/4	1,610.80	3/4	1,279.00	3/4	947.84	3/4	633.75	3/4	342.86	3/4	75.62	3/4		3/4		3/4	
1	1,935.69	1	1,603.89	1	1,272.09	1	941.03	1	627.44	1	337.04	1	70.29	1		1		1	
1/4	1,928.78	1/4	1,596.98	1/4	1,265.18	1/4	934.27	1/4	621.16	1/4	331.26	1/4	65.00	1/4		1/4		1/4	
1/2	1,921.86	1/2	1,590.06	1/2	1,258.26	1/2	927.52	1/2	614.88	1/2	325.47	1/2	59.71	1/2		1/2		1/2	
3/4	1,914.95	3/4	1,583.15	3/4	1,251.35	3/4	920.76	3/4	608.61	3/4	319.69	3/4	54.42	3/4		3/4		3/4	
2	1,908.04	2	1,576.24	2	1,244.44	2	914.01	2	602.33	2	313.91	2	49.13	2		2		2	
1/4	1,901.13	1/4	1,569.33	1/4	1,237.53	1/4	907.29	1/4	596.10	1/4	308.16	1/4	44.13	1/4		1/4		1/4	
1/2	1,894.21	1/2	1,562.41	1/2	1,230.61	1/2	900.58	1/2	589.86	1/2	302.42	1/2	39.13	1/2		1/2		1/2	
3/4	1,887.30	3/4	1,555.50	3/4	1,223.70	3/4	893.86	3/4	583.63	3/4	296.68	3/4	34.13	3/4		3/4		3/4	
3	1,880.39	3	1,548.59	3	1,216.79	3	887.15	3	577.39	3	290.94	3	29.12	3		3		3	
1/4	1,873.48	1/4	1,541.68	1/4	1,209.88	1/4	880.48	1/4	571.20	1/4	285.24	1/4	25.89	1/4		1/4		1/4	
1/2	1,866.56	1/2	1,534.76	1/2	1,202.96	1/2	873.80	1/2	565.01	1/2	279.54	1/2	22.66	1/2		1/2		1/2	
3/4	1,859.65	3/4	1,527.85	3/4	1,196.05	3/4	867.13	3/4	558.81	3/4	273.84	3/4	19.43	3/4		3/4		3/4	
4	1,852.74	4	1,520.94	4	1,189.14	4	860.46	4	552.62	4	268.14	4	16.20	4		4		4	
1/4	1,845.83	1/4	1,514.03	1/4	1,182.23	1/4	853.83	1/4	546.47	1/4	262.48	1/4		1/4		1/4		1/4	
1/2	1,838.91	1/2	1,507.11	1/2	1,175.31	1/2	847.20	1/2	540.31	1/2	256.82	1/2		1/2		1/2		1/2	
3/4	1,832.00	3/4	1,500.20	3/4	1,168.40	3/4	840.57	3/4	534.16	3/4	251.16	3/4		3/4		3/4		3/4	
5	1,825.09	5	1,493.29	5	1,161.49	5	833.95	5	528.01	5	245.50	5		5		5		5	
1/4	1,818.18	1/4	1,486.38	1/4	1,154.58	1/4	827.36	1/4	521.90	1/4	239.88	1/4		1/4		1/4		1/4	
1/2	1,811.26	1/2	1,479.46	1/2	1,147.66	1/2	820.77	1/2	515.79	1/2	234.26	1/2		1/2		1/2		1/2	
3/4	1,804.35	3/4	1,472.55	3/4	1,140.75	3/4	814.19	3/4	509.67	3/4	228.64	3/4		3/4		3/4		3/4	
6	1,797.44	6	1,465.64	6	1,133.84	6	807.60	6	503.56	6	223.02	6		6		6		6	
1/4	1,790.53	1/4	1,458.73	1/4	1,126.93	1/4	801.05	1/4	497.49	1/4	217.44	1/4		1/4		1/4		1/4	
1/2	1,783.61	1/2	1,451.81	1/2	1,120.01	1/2	794.50	1/2	491.42	1/2	211.87	1/2		1/2		1/2		1/2	
3/4	1,776.70	3/4	1,444.90	3/4	1,113.10	3/4	787.95	3/4	485.35	3/4	206.29	3/4		3/4		3/4		3/4	
7	1,769.79	7	1,437.99	7	1,106.19	7	781.40	7	479.28	7	200.71	7		7		7		7	
1/4	1,762.88	1/4	1,431.08	1/4	1,099.28	1/4	774.89	1/4	473.25	1/4	195.17	1/4		1/4		1/4		1/4	
1/2	1,755.96	1/2	1,424.16	1/2	1,092.36	1/2	768.38	1/2	467.22	1/2	189.64	1/2		1/2		1/2		1/2	
3/4	1,749.05	3/4	1,417.25	3/4	1,085.45	3/4	761.87	3/4	461.19	3/4	184.10	3/4		3/4		3/4		3/4	
8	1,742.14	8	1,410.34	8	1,078.54	8	755.36	8	455.16	8	178.56	8		8		8		8	
1/4	1,735.23	1/4	1,403.43	1/4	1,071.63	1/4	748.89	1/4	449.17	1/4	173.07	1/4		1/4		1/4		1/4	
1/2	1,728.31	1/2	1,396.51	1/2	1,064.71	1/2	742.43	1/2	443.19	1/2	167.57	1/2		1/2		1/2		1/2	
3/4	1,721.40	3/4	1,389.60	3/4	1,057.80	3/4	735.96	3/4	437.20	3/4	162.08	3/4		3/4		3/4		3/4	
9	1,714.49	9	1,382.69	9	1,050.89	9	729.49	9	431.21	9	156.58	9		9		9		9	
1/4	1,707.58	1/4	1,375.78	1/4	1,043.98	1/4	723.05	1/4	425.26	1/4	151.13	1/4		1/4		1/4		1/4	
1/2	1,700.66	1/2	1,368.86	1/2	1,037.06	1/2	716.61	1/2	419.32	1/2	145.67	1/2		1/2		1/2		1/2	
3/4	1,693.75	3/4	1,361.95	3/4	1,030.15	3/4	710.17	3/4	413.37	3/4	140.22	3/4		3/4		3/4		3/4	
10	1,686.84	10	1,355.04	10	1,023.24	10	703.73	10	407.42	10	134.76	10		10		10		10	
1/4	1,679.93	1/4	1,348.13	1/4	1,016.35	1/4	697.33	1/4	401.51	1/4	129.35	1/4		1/4		1/4		1/4	
1/2	1,673.01	1/2	1,341.21	1/2	1,009.46	1/2	690.93	1/2	395.61	1/2	123.94	1/2		1/2		1/2		1/2	
3/4	1,666.10	3/4	1,334.30	3/4	1,002.56	3/4	684.53	3/4	389.70	3/4	118.52	3/4		3/4		3/4		3/4	
11	1,659.19	11	1,327.39	11	995.67	11	678.13	11	383.80	11	113.11	11		11		11		11	
1/4	1,652.28	1/4	1,320.48	1/4	988.82	1/4	671.78	1/4	377.93	1/4	107.74	1/4		1/4		1/4		1/4	
1/2	1,645.36	1/2	1,313.56	1/2	981.97	1/2	665.42	1/2	372.07	1/2	102.36	1/2		1/2		1/2		1/2	
3/4	1,638.45	3/4	1,306.65	3/4	975.12	3/4	659.06	3/4	366.20	3/4	96.99	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
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BARGE "EMS 396"

2 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	5,089.07	0	4,748.35	0	4,382.80	0	3,997.66	0	3,610.18	0	3,222.67	0	2,835.13
1/4		1/4		1/4		1/4	5,082.21	1/4	4,740.96	1/4	4,374.92	1/4	3,989.59	1/4	3,602.11	1/4	3,214.60	1/4	2,827.06
1/2		1/2		1/2		1/2	5,075.34	1/2	4,733.56	1/2	4,367.04	1/2	3,981.51	1/2	3,594.04	1/2	3,206.53	1/2	2,818.98
3/4		3/4		3/4		3/4	5,068.48	3/4	4,726.17	3/4	4,359.17	3/4	3,973.44	3/4	3,585.97	3/4	3,198.45	3/4	2,810.91
1		1		1		1	5,061.61	1	4,718.77	1	4,351.29	1	3,965.37	1	3,577.89	1	3,190.38	1	2,802.84
1/4		1/4		1/4		1/4	5,054.70	1/4	4,711.34	1/4	4,343.37	1/4	3,957.30	1/4	3,569.82	1/4	3,182.31	1/4	2,794.76
1/2		1/2		1/2		1/2	5,047.80	1/2	4,703.90	1/2	4,335.46	1/2	3,949.22	1/2	3,561.75	1/2	3,174.23	1/2	2,786.69
3/4		3/4		3/4		3/4	5,040.89	3/4	4,696.47	3/4	4,327.54	3/4	3,941.15	3/4	3,553.68	3/4	3,166.16	3/4	2,778.62
2		2		2		2	5,033.99	2	4,689.03	2	4,319.62	2	3,933.08	2	3,545.60	2	3,158.08	2	2,770.54
1/4		1/4		1/4		1/4	5,027.04	1/4	4,681.56	1/4	4,311.67	1/4	3,925.01	1/4	3,537.53	1/4	3,150.01	1/4	2,762.47
1/2		1/2		1/2		1/2	5,020.09	1/2	4,674.08	1/2	4,303.71	1/2	3,916.93	1/2	3,529.46	1/2	3,141.94	1/2	2,754.39
3/4		3/4		3/4		3/4	5,013.15	3/4	4,666.61	3/4	4,295.75	3/4	3,908.86	3/4	3,521.39	3/4	3,133.86	3/4	2,746.32
3		3		3		3	5,006.20	3	4,659.13	3	4,287.79	3	3,900.79	3	3,513.31	3	3,125.79	3	2,738.25
1/4		1/4		1/4		1/4	4,999.22	1/4	4,651.62	1/4	4,279.80	1/4	3,892.72	1/4	3,505.24	1/4	3,117.72	1/4	2,730.17
1/2		1/2		1/2		1/2	4,992.23	1/2	4,644.10	1/2	4,271.80	1/2	3,884.65	1/2	3,497.17	1/2	3,109.64	1/2	2,722.10
3/4		3/4		3/4		3/4	4,985.24	3/4	4,636.59	3/4	4,263.80	3/4	3,876.57	3/4	3,489.10	3/4	3,101.57	3/4	2,714.03
4		4		4		4	4,978.26	4	4,629.07	4	4,255.80	4	3,868.50	4	3,481.03	4	3,093.49	4	2,705.95
1/4		1/4		1/4		1/4	4,971.23	1/4	4,621.52	1/4	4,247.77	1/4	3,860.43	1/4	3,472.95	1/4	3,085.42	1/4	2,697.88
1/2		1/2		1/2		1/2	4,964.21	1/2	4,613.96	1/2	4,239.73	1/2	3,852.36	1/2	3,464.88	1/2	3,077.35	1/2	2,689.80
3/4		3/4		3/4		3/4	4,957.18	3/4	4,606.40	3/4	4,231.69	3/4	3,844.28	3/4	3,456.81	3/4	3,069.27	3/4	2,681.73
5		5		5		5	4,950.15	5	4,598.85	5	4,223.66	5	3,836.21	5	3,448.74	5	3,061.20	5	2,673.66
1/4		1/4		1/4		1/4	4,943.09	1/4	4,591.25	1/4	4,215.59	1/4	3,828.14	1/4	3,440.66	1/4	3,053.12	1/4	2,665.58
1/2		1/2		1/2		1/2	4,936.02	1/2	4,583.66	1/2	4,207.53	1/2	3,820.07	1/2	3,432.59	1/2	3,045.05	1/2	2,657.51
3/4		3/4		3/4		3/4	4,928.95	3/4	4,576.06	3/4	4,199.46	3/4	3,811.99	3/4	3,424.52	3/4	3,036.98	3/4	2,649.43
6		6		6		6	4,921.89	6	4,568.47	6	4,191.40	6	3,803.92	6	3,416.45	6	3,028.90	6	2,641.36
1/4		1/4		1/4	5,260.82	1/4	4,914.78	1/4	4,560.83	1/4	4,183.32	1/4	3,795.85	1/4	3,408.37	1/4	3,020.83	1/4	2,633.29
1/2		1/2		1/2	5,255.08	1/2	4,907.67	1/2	4,553.20	1/2	4,175.25	1/2	3,787.78	1/2	3,400.30	1/2	3,012.76	1/2	2,625.21
3/4		3/4		3/4	5,249.34	3/4	4,900.57	3/4	4,545.56	3/4	4,167.18	3/4	3,779.70	3/4	3,392.22	3/4	3,004.68	3/4	2,617.14
7		7		7	5,243.61	7	4,893.46	7	4,537.92	7	4,159.11	7	3,771.63	7	3,384.15	7	2,996.61	7	2,609.07
1/4		1/4		1/4	5,236.40	1/4	4,886.31	1/4	4,530.25	1/4	4,151.03	1/4	3,763.56	1/4	3,376.08	1/4	2,988.53	1/4	2,600.99
1/2		1/2		1/2	5,229.19	1/2	4,879.17	1/2	4,522.57	1/2	4,142.96	1/2	3,755.49	1/2	3,368.00	1/2	2,980.46	1/2	2,592.92
3/4		3/4		3/4	5,221.99	3/4	4,872.02	3/4	4,514.90	3/4	4,134.89	3/4	3,747.41	3/4	3,359.93	3/4	2,972.39	3/4	2,584.84
8		8		8	5,214.78	8	4,864.87	8	4,507.22	8	4,126.82	8	3,739.34	8	3,351.86	8	2,964.31	8	2,576.77
1/4		1/4		1/4	5,206.84	1/4	4,857.69	1/4	4,499.50	1/4	4,118.74	1/4	3,731.27	1/4	3,343.78	1/4	2,956.24	1/4	2,568.70
1/2		1/2		1/2	5,198.90	1/2	4,850.50	1/2	4,491.79	1/2	4,110.67	1/2	3,723.20	1/2	3,335.71	1/2	2,948.17	1/2	2,560.62
3/4		3/4		3/4	5,190.96	3/4	4,843.31	3/4	4,484.07	3/4	4,102.60	3/4	3,715.12	3/4	3,327.63	3/4	2,940.09	3/4	2,552.55
9		9		9	5,183.02	9	4,836.13	9	4,476.36	9	4,094.53	9	3,707.05	9	3,319.56	9	2,932.02	9	2,544.48
1/4		1/4		1/4	5,174.99	1/4	4,828.85	1/4	4,468.60	1/4	4,086.46	1/4	3,698.98	1/4	3,311.49	1/4	2,923.94	1/4	2,536.40
1/2		1/2		1/2	5,166.97	1/2	4,821.58	1/2	4,460.84	1/2	4,078.38	1/2	3,690.91	1/2	3,303.41	1/2	2,915.87	1/2	2,528.33
3/4		3/4		3/4	5,158.94	3/4	4,814.30	3/4	4,453.09	3/4	4,070.31	3/4	3,682.84	3/4	3,295.34	3/4	2,907.80	3/4	2,520.25
10		10		10	5,150.92	10	4,807.03	10	4,445.33	10	4,062.24	10	3,674.76	10	3,287.27	10	2,899.72	10	2,512.18
1/4		1/4		1/4	5,142.89	1/4	4,799.71	1/4	4,437.53	1/4	4,054.17	1/4	3,666.69	1/4	3,279.19	1/4	2,891.65	1/4	2,504.11
1/2		1/2		1/2	5,134.87	1/2	4,792.40	1/2	4,429.74	1/2	4,046.09	1/2	3,658.62	1/2	3,271.12	1/2	2,883.58	1/2	2,496.03
3/4		3/4		3/4	5,126.84	3/4	4,785.09	3/4	4,421.94	3/4	4,038.02	3/4	3,650.55	3/4	3,263.04	3/4	2,875.50	3/4	2,487.96
11		11		11	5,118.81	11	4,777.77	11	4,414.14	11	4,029.95	11	3,642.47	11	3,254.97	11	2,867.43	11	2,479.89
1/4		1/4		1/4	5,111.38	1/4	4,770.42	1/4	4,406.31	1/4	4,021.88	1/4	3,634.40	1/4	3,246.90	1/4	2,859.35	1/4	2,471.81
1/2		1/2		1/2	5,103.94	1/2	4,763.06	1/2	4,398.47	1/2	4,013.80	1/2	3,626.33	1/2	3,238.82	1/2	2,851.28	1/2	2,463.74
3/4		3/4		3/4	5,096.51	3/4	4,755.71	3/4	4,390.63	3/4	4,005.73	3/4	3,618.26	3/4	3,230.75	3/4	2,843.21	3/4	2,455.66

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 396"

2 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	2,447.59	0	2,060.05	0	1,672.51	0	1,284.96	0	897.42	0	525.13	0	137.62	0		0		0	
1/4	2,439.52	1/4	2,051.97	1/4	1,664.43	1/4	1,276.89	1/4	889.65	1/4	517.06	1/4	129.55	1/4		1/4		1/4	
1/2	2,431.44	1/2	2,043.90	1/2	1,656.36	1/2	1,268.82	1/2	881.88	1/2	508.98	1/2	121.48	1/2		1/2		1/2	
3/4	2,423.37	3/4	2,035.83	3/4	1,648.28	3/4	1,260.74	3/4	874.11	3/4	500.91	3/4	113.40	3/4		3/4		3/4	
1	2,415.29	1	2,027.75	1	1,640.21	1	1,252.67	1	866.35	1	492.84	1	105.33	1		1		1	
1/4	2,407.22	1/4	2,019.68	1/4	1,632.14	1/4	1,244.59	1/4	858.58	1/4	484.76	1/4	97.26	1/4		1/4		1/4	
1/2	2,399.15	1/2	2,011.60	1/2	1,624.06	1/2	1,236.52	1/2	850.81	1/2	476.69	1/2	89.18	1/2		1/2		1/2	
3/4	2,391.07	3/4	2,003.53	3/4	1,615.99	3/4	1,228.45	3/4	843.04	3/4	468.62	3/4	81.11	3/4		3/4		3/4	
2	2,383.00	2	1,995.46	2	1,607.91	2	1,220.37	2	835.27	2	460.55	2	73.04	2		2		2	
1/4	2,374.93	1/4	1,987.38	1/4	1,599.84	1/4	1,212.30	1/4	827.51	1/4	452.47	1/4	65.25	1/4		1/4		1/4	
1/2	2,366.85	1/2	1,979.31	1/2	1,591.77	1/2	1,204.22	1/2	819.75	1/2	444.40	1/2	57.47	1/2		1/2		1/2	
3/4	2,358.78	3/4	1,971.24	3/4	1,583.69	3/4	1,196.15	3/4	811.98	3/4	436.33	3/4	49.68	3/4		3/4		3/4	
3	2,350.70	3	1,963.16	3	1,575.62	3	1,188.08	3	804.22	3	428.25	3	41.90	3		3		3	
1/4	2,342.63	1/4	1,955.09	1/4	1,567.55	1/4	1,180.00	1/4	796.47	1/4	420.18	1/4	36.13	1/4		1/4		1/4	
1/2	2,334.56	1/2	1,947.01	1/2	1,559.47	1/2	1,171.93	1/2	788.72	1/2	412.11	1/2	30.37	1/2		1/2		1/2	
3/4	2,326.48	3/4	1,938.94	3/4	1,551.40	3/4	1,163.86	3/4	780.96	3/4	404.03	3/4	24.60	3/4		3/4		3/4	
4	2,318.41	4	1,930.87	4	1,543.32	4	1,155.78	4	773.21	4	395.96	4	18.83	4		4		4	
1/4	2,310.34	1/4	1,922.79	1/4	1,535.25	1/4	1,147.71	1/4	765.46	1/4	387.89	1/4		1/4		1/4		1/4	
1/2	2,302.26	1/2	1,914.72	1/2	1,527.18	1/2	1,139.63	1/2	757.71	1/2	379.81	1/2		1/2		1/2		1/2	
3/4	2,294.19	3/4	1,906.65	3/4	1,519.10	3/4	1,131.56	3/4	749.95	3/4	371.74	3/4		3/4		3/4		3/4	
5	2,286.11	5	1,898.57	5	1,511.03	5	1,123.49	5	742.20	5	363.67	5		5		5		5	
1/4	2,278.04	1/4	1,890.50	1/4	1,502.96	1/4	1,115.41	1/4	734.45	1/4	355.60	1/4		1/4		1/4		1/4	
1/2	2,269.97	1/2	1,882.42	1/2	1,494.88	1/2	1,107.34	1/2	726.70	1/2	347.52	1/2		1/2		1/2		1/2	
3/4	2,261.89	3/4	1,874.35	3/4	1,486.81	3/4	1,099.27	3/4	718.94	3/4	339.45	3/4		3/4		3/4		3/4	
6	2,253.82	6	1,866.28	6	1,478.73	6	1,091.19	6	711.19	6	331.38	6		6		6		6	
1/4	2,245.74	1/4	1,858.20	1/4	1,470.66	1/4	1,083.12	1/4	703.44	1/4	323.30	1/4		1/4		1/4		1/4	
1/2	2,237.67	1/2	1,850.13	1/2	1,462.59	1/2	1,075.04	1/2	695.70	1/2	315.23	1/2		1/2		1/2		1/2	
3/4	2,229.60	3/4	1,842.05	3/4	1,454.51	3/4	1,066.97	3/4	687.95	3/4	307.16	3/4		3/4		3/4		3/4	
7	2,221.52	7	1,833.98	7	1,446.44	7	1,058.90	7	680.20	7	299.08	7		7		7		7	
1/4	2,213.45	1/4	1,825.91	1/4	1,438.36	1/4	1,050.82	1/4	672.45	1/4	291.01	1/4		1/4		1/4		1/4	
1/2	2,205.38	1/2	1,817.83	1/2	1,430.29	1/2	1,042.75	1/2	664.70	1/2	282.94	1/2		1/2		1/2		1/2	
3/4	2,197.30	3/4	1,809.76	3/4	1,422.22	3/4	1,034.67	3/4	656.96	3/4	274.86	3/4		3/4		3/4		3/4	
8	2,189.23	8	1,801.69	8	1,414.14	8	1,026.60	8	649.21	8	266.79	8		8		8		8	
1/4	2,181.15	1/4	1,793.61	1/4	1,406.07	1/4	1,018.53	1/4	641.45	1/4	258.72	1/4		1/4		1/4		1/4	
1/2	2,173.08	1/2	1,785.54	1/2	1,398.00	1/2	1,010.45	1/2	633.70	1/2	250.64	1/2		1/2		1/2		1/2	
3/4	2,165.01	3/4	1,777.46	3/4	1,389.92	3/4	1,002.38	3/4	625.95	3/4	242.57	3/4		3/4		3/4		3/4	
9	2,156.93	9	1,769.39	9	1,381.85	9	994.31	9	618.20	9	234.50	9		9		9		9	
1/4	2,148.86	1/4	1,761.32	1/4	1,373.77	1/4	986.23	1/4	610.45	1/4	226.43	1/4		1/4		1/4		1/4	
1/2	2,140.79	1/2	1,753.24	1/2	1,365.70	1/2	978.16	1/2	602.69	1/2	218.35	1/2		1/2		1/2		1/2	
3/4	2,132.71	3/4	1,745.17	3/4	1,357.63	3/4	970.08	3/4	594.94	3/4	210.28	3/4		3/4		3/4		3/4	
10	2,124.64	10	1,737.10	10	1,349.55	10	962.01	10	587.19	10	202.21	10		10		10		10	
1/4	2,116.56	1/4	1,729.02	1/4	1,341.48	1/4	953.94	1/4	579.44	1/4	194.13	1/4		1/4		1/4		1/4	
1/2	2,108.49	1/2	1,720.95	1/2	1,333.41	1/2	945.86	1/2	571.68	1/2	186.06	1/2		1/2		1/2		1/2	
3/4	2,100.42	3/4	1,712.87	3/4	1,325.33	3/4	937.79	3/4	563.93	3/4	177.99	3/4		3/4		3/4		3/4	
11	2,092.34	11	1,704.80	11	1,317.26	11	929.72	11	556.18	11	169.91	11		11		11		11	
1/4	2,084.27	1/4	1,696.73	1/4	1,309.18	1/4	921.64	1/4	548.42	1/4	161.84	1/4		1/4		1/4		1/4	
1/2	2,076.20	1/2	1,688.65	1/2	1,301.11	1/2	913.57	1/2	540.65	1/2	153.77	1/2		1/2		1/2		1/2	
3/4	2,068.12	3/4	1,680.58	3/4	1,293.04	3/4	905.49	3/4	532.89	3/4	145.69	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 396"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	5,114.82	0	4,773.79	0	4,408.47	0	4,023.31	0	3,635.57	0	3,247.80	0	2,860.00
1/4		1/4		1/4		1/4	5,107.38	1/4	4,766.43	1/4	4,400.63	1/4	4,015.23	1/4	3,627.49	1/4	3,239.72	1/4	2,851.92
1/2		1/2		1/2		1/2	5,100.51	1/2	4,759.03	1/2	4,392.75	1/2	4,007.15	1/2	3,619.41	1/2	3,231.64	1/2	2,843.84
3/4		3/4		3/4		3/4	5,093.64	3/4	4,751.63	3/4	4,384.86	3/4	3,999.07	3/4	3,611.33	3/4	3,223.56	3/4	2,835.76
1		1		1		1	5,086.77	1	4,744.23	1	4,376.98	1	3,991.00	1	3,603.26	1	3,215.48	1	2,827.68
1/4		1/4		1/4		1/4	5,079.90	1/4	4,736.83	1/4	4,369.10	1/4	3,982.92	1/4	3,595.18	1/4	3,207.40	1/4	2,819.60
1/2		1/2		1/2		1/2	5,072.99	1/2	4,729.39	1/2	4,361.18	1/2	3,974.84	1/2	3,587.10	1/2	3,199.32	1/2	2,811.52
3/4		3/4		3/4		3/4	5,066.08	3/4	4,721.95	3/4	4,353.26	3/4	3,966.76	3/4	3,579.02	3/4	3,191.24	3/4	2,803.44
2		2		2		2	5,059.16	2	4,714.51	2	4,345.33	2	3,958.68	2	3,570.94	2	3,183.16	2	2,795.36
1/4		1/4		1/4		1/4	5,052.25	1/4	4,707.07	1/4	4,337.41	1/4	3,950.61	1/4	3,562.87	1/4	3,175.09	1/4	2,787.28
1/2		1/2		1/2		1/2	5,045.30	1/2	4,699.59	1/2	4,329.45	1/2	3,942.53	1/2	3,554.79	1/2	3,167.01	1/2	2,779.20
3/4		3/4		3/4		3/4	5,038.35	3/4	4,692.11	3/4	4,321.49	3/4	3,934.45	3/4	3,546.71	3/4	3,158.93	3/4	2,771.13
3		3		3		3	5,031.40	3	4,684.63	3	4,313.52	3	3,926.37	3	3,538.63	3	3,150.85	3	2,763.05
1/4		1/4		1/4		1/4	5,024.45	1/4	4,677.15	1/4	4,305.56	1/4	3,918.29	1/4	3,530.55	1/4	3,142.77	1/4	2,754.97
1/2		1/2		1/2		1/2	5,017.46	1/2	4,669.63	1/2	4,297.56	1/2	3,910.22	1/2	3,522.48	1/2	3,134.69	1/2	2,746.89
3/4		3/4		3/4		3/4	5,010.47	3/4	4,662.11	3/4	4,289.56	3/4	3,902.14	3/4	3,514.40	3/4	3,126.61	3/4	2,738.81
4		4		4		4	5,003.48	4	4,654.59	4	4,281.55	4	3,894.06	4	3,506.32	4	3,118.53	4	2,730.73
1/4		1/4		1/4		1/4	4,996.49	1/4	4,647.07	1/4	4,273.55	1/4	3,885.98	1/4	3,498.24	1/4	3,110.45	1/4	2,722.65
1/2		1/2		1/2		1/2	4,989.46	1/2	4,639.51	1/2	4,265.51	1/2	3,877.90	1/2	3,490.17	1/2	3,102.37	1/2	2,714.57
3/4		3/4		3/4		3/4	4,982.43	3/4	4,631.95	3/4	4,257.46	3/4	3,869.83	3/4	3,482.09	3/4	3,094.29	3/4	2,706.49
5		5		5		5	4,975.40	5	4,624.39	5	4,249.42	5	3,861.75	5	3,474.01	5	3,086.21	5	2,698.41
1/4		1/4		1/4		1/4	4,968.36	1/4	4,616.83	1/4	4,241.38	1/4	3,853.67	1/4	3,465.93	1/4	3,078.14	1/4	2,690.33
1/2		1/2		1/2		1/2	4,961.29	1/2	4,609.22	1/2	4,233.31	1/2	3,845.59	1/2	3,457.85	1/2	3,070.06	1/2	2,682.25
3/4		3/4		3/4		3/4	4,954.22	3/4	4,601.62	3/4	4,225.24	3/4	3,837.52	3/4	3,449.78	3/4	3,061.98	3/4	2,674.18
6		6		6		6	4,947.15	6	4,594.02	6	4,217.17	6	3,829.44	6	3,441.70	6	3,053.90	6	2,666.10
1/4		1/4		1/4		1/4	4,940.08	1/4	4,586.42	1/4	4,209.10	1/4	3,821.36	1/4	3,433.62	1/4	3,045.82	1/4	2,658.02
1/2		1/2		1/2	5,279.24	1/2	4,932.97	1/2	4,578.78	1/2	4,201.02	1/2	3,813.28	1/2	3,425.54	1/2	3,037.74	1/2	2,649.94
3/4		3/4		3/4	5,273.50	3/4	4,925.86	3/4	4,571.14	3/4	4,192.94	3/4	3,805.20	3/4	3,417.46	3/4	3,029.66	3/4	2,641.86
7		7		7	5,267.76	7	4,918.75	7	4,563.50	7	4,184.86	7	3,797.13	7	3,409.38	7	3,021.58	7	2,633.78
1/4		1/4		1/4	5,262.02	1/4	4,911.63	1/4	4,555.86	1/4	4,176.79	1/4	3,789.05	1/4	3,401.30	1/4	3,013.50	1/4	2,625.70
1/2		1/2		1/2	5,254.80	1/2	4,904.48	1/2	4,548.18	1/2	4,168.71	1/2	3,780.97	1/2	3,393.22	1/2	3,005.42	1/2	2,617.62
3/4		3/4		3/4	5,247.59	3/4	4,897.33	3/4	4,540.50	3/4	4,160.63	3/4	3,772.89	3/4	3,385.14	3/4	2,997.34	3/4	2,609.54
8		8		8	5,240.38	8	4,890.18	8	4,532.81	8	4,152.55	8	3,764.81	8	3,377.07	8	2,989.26	8	2,601.46
1/4		1/4		1/4	5,233.17	1/4	4,883.03	1/4	4,525.13	1/4	4,144.48	1/4	3,756.74	1/4	3,368.99	1/4	2,981.18	1/4	2,593.38
1/2		1/2		1/2	5,225.22	1/2	4,875.84	1/2	4,517.41	1/2	4,136.40	1/2	3,748.66	1/2	3,360.91	1/2	2,973.11	1/2	2,585.30
3/4		3/4		3/4	5,217.28	3/4	4,868.64	3/4	4,509.69	3/4	4,128.32	3/4	3,740.58	3/4	3,352.83	3/4	2,965.03	3/4	2,577.22
9		9		9	5,209.33	9	4,861.45	9	4,501.97	9	4,120.24	9	3,732.50	9	3,344.75	9	2,956.95	9	2,569.15
1/4		1/4		1/4	5,201.39	1/4	4,854.26	1/4	4,494.25	1/4	4,112.16	1/4	3,724.42	1/4	3,336.67	1/4	2,948.87	1/4	2,561.07
1/2		1/2		1/2	5,193.35	1/2	4,846.98	1/2	4,486.49	1/2	4,104.09	1/2	3,716.35	1/2	3,328.59	1/2	2,940.79	1/2	2,552.99
3/4		3/4		3/4	5,185.32	3/4	4,839.70	3/4	4,478.73	3/4	4,096.01	3/4	3,708.27	3/4	3,320.51	3/4	2,932.71	3/4	2,544.91
10		10		10	5,177.29	10	4,832.42	10	4,470.96	10	4,087.93	10	3,700.19	10	3,312.43	10	2,924.63	10	2,536.83
1/4		1/4		1/4	5,169.26	1/4	4,825.14	1/4	4,463.20	1/4	4,079.85	1/4	3,692.11	1/4	3,304.35	1/4	2,916.55	1/4	2,528.75
1/2		1/2		1/2	5,161.23	1/2	4,817.82	1/2	4,455.40	1/2	4,071.77	1/2	3,684.04	1/2	3,296.27	1/2	2,908.47	1/2	2,520.67
3/4		3/4		3/4	5,153.20	3/4	4,810.51	3/4	4,447.60	3/4	4,063.70	3/4	3,675.96	3/4	3,288.19	3/4	2,900.39	3/4	2,512.59
11		11		11	5,145.17	11	4,803.19	11	4,439.80	11	4,055.62	11	3,667.88	11	3,280.12	11	2,892.31	11	2,504.51
1/4		1/4		1/4	5,137.14	1/4	4,795.87	1/4	4,432.00	1/4	4,047.54	1/4	3,659.80	1/4	3,272.04	1/4	2,884.23	1/4	2,496.43
1/2		1/2		1/2	5,129.70	1/2	4,788.51	1/2	4,424.15	1/2	4,039.46	1/2	3,651.72	1/2	3,263.96	1/2	2,876.16	1/2	2,488.35
3/4		3/4		3/4	5,122.26	3/4	4,781.15	3/4	4,416.31	3/4	4,031.38	3/4	3,643.65	3/4	3,255.88	3/4	2,868.08	3/4	2,480.27

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 396"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,472.20	0	2,084.39	0	1,696.59	0	1,308.79	0	920.99	0	533.56	0	145.79	0		0		0	
1/4	2,464.12	1/4	2,076.31	1/4	1,688.51	1/4	1,300.71	1/4	912.91	1/4	525.48	1/4	137.71	1/4		1/4		1/4	
1/2	2,456.04	1/2	2,068.24	1/2	1,680.43	1/2	1,292.63	1/2	904.83	1/2	517.40	1/2	129.63	1/2		1/2		1/2	
3/4	2,447.96	3/4	2,060.16	3/4	1,672.35	3/4	1,284.55	3/4	896.75	3/4	509.32	3/4	121.56	3/4		3/4		3/4	
1	2,439.88	1	2,052.08	1	1,664.28	1	1,276.47	1	888.67	1	501.25	1	113.48	1		1		1	
1/4	2,431.80	1/4	2,044.00	1/4	1,656.20	1/4	1,268.39	1/4	880.59	1/4	493.17	1/4	105.40	1/4		1/4		1/4	
1/2	2,423.72	1/2	2,035.92	1/2	1,648.12	1/2	1,260.32	1/2	872.51	1/2	485.09	1/2	97.32	1/2		1/2		1/2	
3/4	2,415.64	3/4	2,027.84	3/4	1,640.04	3/4	1,252.24	3/4	864.43	3/4	477.01	3/4	89.24	3/4		3/4		3/4	
2	2,407.56	2	2,019.76	2	1,631.96	2	1,244.16	2	856.36	2	468.93	2	81.16	2		2		2	
1/4	2,399.48	1/4	2,011.68	1/4	1,623.88	1/4	1,236.08	1/4	848.28	1/4	460.85	1/4	73.08	1/4		1/4		1/4	
1/2	2,391.40	1/2	2,003.60	1/2	1,615.80	1/2	1,228.00	1/2	840.20	1/2	452.77	1/2	65.30	1/2		1/2		1/2	
3/4	2,383.32	3/4	1,995.52	3/4	1,607.72	3/4	1,219.92	3/4	832.12	3/4	444.70	3/4	57.51	3/4		3/4		3/4	
3	2,375.24	3	1,987.44	3	1,599.64	3	1,211.84	3	824.04	3	436.62	3	49.72	3		3		3	
1/4	2,367.17	1/4	1,979.36	1/4	1,591.56	1/4	1,203.76	1/4	815.96	1/4	428.54	1/4	41.93	1/4		1/4		1/4	
1/2	2,359.09	1/2	1,971.28	1/2	1,583.48	1/2	1,195.68	1/2	807.89	1/2	420.46	1/2	36.16	1/2		1/2		1/2	
3/4	2,351.01	3/4	1,963.21	3/4	1,575.40	3/4	1,187.60	3/4	799.82	3/4	412.38	3/4	30.39	3/4		3/4		3/4	
4	2,342.93	4	1,955.13	4	1,567.32	4	1,179.52	4	791.75	4	404.30	4	24.62	4		4		4	
1/4	2,334.85	1/4	1,947.05	1/4	1,559.25	1/4	1,171.44	1/4	783.68	1/4	396.22	1/4	18.84	1/4		1/4		1/4	
1/2	2,326.77	1/2	1,938.97	1/2	1,551.17	1/2	1,163.36	1/2	775.62	1/2	388.15	1/2		1/2		1/2		1/2	
3/4	2,318.69	3/4	1,930.89	3/4	1,543.09	3/4	1,155.29	3/4	767.55	3/4	380.07	3/4		3/4		3/4		3/4	
5	2,310.61	5	1,922.81	5	1,535.01	5	1,147.21	5	759.48	5	371.99	5		5		5		5	
1/4	2,302.53	1/4	1,914.73	1/4	1,526.93	1/4	1,139.13	1/4	751.41	1/4	363.91	1/4		1/4		1/4		1/4	
1/2	2,294.45	1/2	1,906.65	1/2	1,518.85	1/2	1,131.05	1/2	743.34	1/2	355.83	1/2		1/2		1/2		1/2	
3/4	2,286.37	3/4	1,898.57	3/4	1,510.77	3/4	1,122.97	3/4	735.27	3/4	347.75	3/4		3/4		3/4		3/4	
6	2,278.29	6	1,890.49	6	1,502.69	6	1,114.89	6	727.20	6	339.68	6		6		6		6	
1/4	2,270.22	1/4	1,882.41	1/4	1,494.61	1/4	1,106.81	1/4	719.13	1/4	331.60	1/4		1/4		1/4		1/4	
1/2	2,262.14	1/2	1,874.33	1/2	1,486.53	1/2	1,098.73	1/2	711.07	1/2	323.52	1/2		1/2		1/2		1/2	
3/4	2,254.06	3/4	1,866.26	3/4	1,478.45	3/4	1,090.65	3/4	703.01	3/4	315.44	3/4		3/4		3/4		3/4	
7	2;245.98	7	1,858.18	7	1,470.37	7	1,082.57	7	694.94	7	307.36	7		7		7		7	
1/4	2,237.90	1/4	1,850.10	1/4	1,462.30	1/4	1,074.49	1/4	686.88	1/4	299.28	1/4		1/4		1/4		1/4	
1/2	2,229.82	1/2	1,842.02	1/2	1,454.22	1/2	1,066.41	1/2	678.81	1/2	291.20	1/2		1/2		1/2		1/2	
3/4	2,221.74	3/4	1,833.94	3/4	1,446.14	3/4	1,058.34	3/4	670.75	3/4	283.13	3/4		3/4		3/4		3/4	
8	2,213.66	8	1,825.86	8	1,438.06	8	1,050.26	8	662.68	8	275.05	8		8		8		8	
1/4	2,205.58	1/4	1,817.78	1/4	1,429.98	1/4	1,042.18	1/4	654.62	1/4	266.97	1/4		1/4		1/4		1/4	
1/2	2,197.50	1/2	1,809.70	1/2	1,421.90	1/2	1,034.10	1/2	646.55	1/2	258.89	1/2		1/2		1/2		1/2	
3/4	2,189.42	3/4	1,801.62	3/4	1,413.82	3/4	1,026.02	3/4	638.48	3/4	250.81	3/4		3/4		3/4		3/4	
9	2,181.34	9	1,793.54	9	1,405.74	9	1,017.94	9	630.41	9	242.73	9		9		9		9	
1/4	2,173.26	1/4	1,785.46	1/4	1,397.66	1/4	1,009.86	1/4	622.35	1/4	234.65	1/4		1/4		1/4		1/4	
1/2	2,165.19	1/2	1,777.38	1/2	1,389.58	1/2	1,001.78	1/2	614.28	1/2	226.58	1/2		1/2		1/2		1/2	
3/4	2,157.11	3/4	1,769.30	3/4	1,381.50	3/4	993.70	3/4	606.21	3/4	218.50	3/4		3/4		3/4		3/4	
10	2,149.03	10	1,761.23	10	1,373.42	10	985.62	10	598.14	10	210.42	10		10		10		10	
1/4	2,140.95	1/4	1,753.15	1/4	1,365.34	1/4	977.54	1/4	590.07	1/4	202.34	1/4		1/4		1/4		1/4	
1/2	2,132.87	1/2	1,745.07	1/2	1,357.27	1/2	969.46	1/2	582.00	1/2	194.26	1/2		1/2		1/2		1/2	
3/4	2,124.79	3/4	1,736.99	3/4	1,349.19	3/4	961.38	3/4	573.93	3/4	186.18	3/4		3/4		3/4		3/4	
11	2,116.71	11	1,728.91	11	1,341.11	11	953.31	11	565.86	11	178.11	11		11		11		11	
1/4	2,108.63	1/4	1,720.83	1/4	1,333.03	1/4	945.23	1/4	557.79	1/4	170.03	1/4		1/4		1/4		1/4	
1/2	2,100.55	1/2	1,712.75	1/2	1,324.95	1/2	937.15	1/2	549.72	1/2	161.95	1/2		1/2		1/2		1/2	
3/4	2,092.47	3/4	1,704.67	3/4	1,316.87	3/4	929.07	3/4	541.64	3/4	153.87	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 396"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,484.65	0	4,233.74	0	3,961.07	0	3,669.70	0	3,372.96	0	3,012.56	0	2,652.06
1/4		1/4		1/4		1/4	4,479.11	1/4	4,228.29	1/4	3,955.16	1/4	3,663.58	1/4	3,365.44	1/4	3,005.06	1/4	2,644.54
1/2		1/2		1/2		1/2	4,473.57	1/2	4,222.83	1/2	3,949.26	1/2	3,657.46	1/2	3,357.93	1/2	2,997.55	1/2	2,637.03
3/4		3/4		3/4		3/4	4,468.56	3/4	4,217.33	3/4	3,943.31	3/4	3,651.33	3/4	3,350.42	3/4	2,990.04	3/4	2,629.52
1		1		1		1	4,463.55	1	4,211.84	1	3,937.37	1	3,645.21	1	3,342.91	1	2,982.54	1	2,622.01
1/4		1/4		1/4		1/4	4,458.54	1/4	4,206.35	1/4	3,931.43	1/4	3,639.08	1/4	3,335.40	1/4	2,975.03	1/4	2,614.49
1/2		1/2		1/2		1/2	4,453.53	1/2	4,200.85	1/2	3,925.49	1/2	3,632.96	1/2	3,327.88	1/2	2,967.53	1/2	2,606.98
3/4		3/4		3/4		3/4	4,448.49	3/4	4,195.32	3/4	3,919.51	3/4	3,626.83	3/4	3,320.37	3/4	2,960.02	3/4	2,599.47
2		2		2		2	4,443.44	2	4,189.79	2	3,913.53	2	3,620.71	2	3,312.86	2	2,952.51	2	2,591.95
1/4		1/4		1/4		1/4	4,438.39	1/4	4,184.26	1/4	3,907.55	1/4	3,614.58	1/4	3,305.35	1/4	2,945.01	1/4	2,584.44
1/2		1/2		1/2		1/2	4,433.35	1/2	4,178.73	1/2	3,901.57	1/2	3,608.46	1/2	3,297.83	1/2	2,937.50	1/2	2,576.93
3/4		3/4		3/4		3/4	4,428.26	3/4	4,173.16	3/4	3,895.55	3/4	3,602.34	3/4	3,290.32	3/4	2,930.00	3/4	2,569.41
3		3		3		3	4,423.18	3	4,167.59	3	3,889.53	3	3,596.21	3	3,282.81	3	2,922.49	3	2,561.90
1/4		1/4		1/4		1/4	4,418.10	1/4	4,162.02	1/4	3,883.52	1/4	3,590.09	1/4	3,275.30	1/4	2,914.98	1/4	2,554.39
1/2		1/2		1/2		1/2	4,413.01	1/2	4,156.45	1/2	3,877.50	1/2	3,583.96	1/2	3,267.78	1/2	2,907.48	1/2	2,546.87
3/4		3/4		3/4		3/4	4,407.89	3/4	4,150.85	3/4	3,871.45	3/4	3,577.84	3/4	3,260.27	3/4	2,899.97	3/4	2,539.36
4		4		4		4	4,402.77	4	4,145.24	4	3,865.39	4	3,571.71	4	3,252.76	4	2,892.47	4	2,531.85
1/4		1/4		1/4		1/4	4,397.65	1/4	4,139.64	1/4	3,859.34	1/4	3,565.59	1/4	3,245.25	1/4	2,884.96	1/4	2,524.33
1/2		1/2		1/2		1/2	4,392.53	1/2	4,134.03	1/2	3,853.28	1/2	3,559.47	1/2	3,237.73	1/2	2,877.45	1/2	2,516.82
3/4		3/4		3/4		3/4	4,387.37	3/4	4,128.39	3/4	3,847.19	3/4	3,553.34	3/4	3,230.23	3/4	2,869.94	3/4	2,509.31
5		5		5		5	4,382.21	5	4,122.74	5	3,841.10	5	3,547.22	5	3,222.72	5	2,862.43	5	2,501.79
1/4		1/4		1/4		1/4	4,377.05	1/4	4,117.10	1/4	3,835.01	1/4	3,541.09	1/4	3,215.22	1/4	2,854.91	1/4	2,494.28
1/2		1/2		1/2		1/2	4,371.89	1/2	4,111.46	1/2	3,828.91	1/2	3,534.97	1/2	3,207.71	1/2	2,847.40	1/2	2,486.77
3/4		3/4		3/4		3/4	4,366.70	3/4	4,105.77	3/4	3,822.80	3/4	3,528.84	3/4	3,200.21	3/4	2,839.89	3/4	2,479.25
6		6		6		6	4,361.50	6	4,100.09	6	3,816.68	6	3,522.72	6	3,192.70	6	2,832.37	6	2,471.74
1/4		1/4		1/4		1/4	4,356.30	1/4	4,094.41	1/4	3,810.56	1/4	3,516.59	1/4	3,185.20	1/4	2,824.86	1/4	2,464.23
1/2		1/2		1/2		1/2	4,351.11	1/2	4,088.73	1/2	3,804.44	1/2	3,510.47	1/2	3,177.69	1/2	2,817.35	1/2	2,456.71
3/4		3/4		3/4	4,616.84	3/4	4,345.87	3/4	4,083.01	3/4	3,798.32	3/4	3,504.35	3/4	3,170.19	3/4	2,809.84	3/4	2,449.20
7		7		7	4,611.50	7	4,340.64	7	4,077.30	7	3,792.19	7	3,498.22	7	3,162.68	7	2,802.32	7	2,441.69
1/4		1/4		1/4	4,606.16	1/4	4,335.41	1/4	4,071.58	1/4	3,786.07	1/4	3,492.10	1/4	3,155.18	1/4	2,794.81	1/4	2,434.18
1/2		1/2		1/2	4,600.82	1/2	4,330.17	1/2	4,065.86	1/2	3,779.94	1/2	3,485.97	1/2	3,147.67	1/2	2,787.30	1/2	2,426.66
3/4		3/4		3/4	4,594.11	3/4	4,324.90	3/4	4,060.10	3/4	3,773.82	3/4	3,479.85	3/4	3,140.16	3/4	2,779.78	3/4	2,419.15
8		8		8	4,587.41	8	4,319.63	8	4,054.35	8	3,767.69	8	3,473.72	8	3,132.66	8	2,772.27	8	2,411.64
1/4		1/4		1/4	4,580.70	1/4	4,314.36	1/4	4,048.59	1/4	3,761.57	1/4	3,467.60	1/4	3,125.15	1/4	2,764.76	1/4	2,404.12
1/2		1/2		1/2	4,573.99	1/2	4,309.09	1/2	4,042.84	1/2	3,755.45	1/2	3,461.47	1/2	3,117.65	1/2	2,757.24	1/2	2,396.61
3/4		3/4		3/4	4,566.60	3/4	4,303.78	3/4	4,037.05	3/4	3,749.32	3/4	3,455.35	3/4	3,110.14	3/4	2,749.73	3/4	2,389.10
9		9		9	4,559.21	9	4,298.47	9	4,031.25	9	3,743.20	9	3,449.23	9	3,102.63	9	2,742.22	9	2,381.58
1/4		1/4		1/4	4,551.82	1/4	4,293.17	1/4	4,025.46	1/4	3,737.07	1/4	3,443.10	1/4	3,095.13	1/4	2,734.70	1/4	2,374.07
1/2		1/2		1/2	4,544.43	1/2	4,287.86	1/2	4,019.67	1/2	3,730.95	1/2	3,436.98	1/2	3,087.62	1/2	2,727.19	1/2	2,366.56
3/4		3/4		3/4	4,538.35	3/4	4,282.48	3/4	4,013.84	3/4	3,724.82	3/4	3,430.85	3/4	3,080.12	3/4	2,719.68	3/4	2,359.04
10		10		10	4,532.26	10	4,277.09	10	4,008.01	10	3,718.70	10	3,424.73	10	3,072.61	10	2,712.16	10	2,351.53
1/4		1/4		1/4	4,526.17	1/4	4,271.71	1/4	4,002.18	1/4	3,712.58	1/4	3,418.60	1/4	3,065.10	1/4	2,704.65	1/4	2,344.02
1/2		1/2		1/2	4,520.08	1/2	4,266.33	1/2	3,996.35	1/2	3,706.45	1/2	3,412.48	1/2	3,057.60	1/2	2,697.14	1/2	2,336.50
3/4		3/4		3/4	4,513.99	3/4	4,260.91	3/4	3,990.48	3/4	3,700.33	3/4	3,406.36	3/4	3,050.09	3/4	2,689.62	3/4	2,328.99
11		11		11	4,507.90	11	4,255.49	11	3,984.61	11	3,694.20	11	3,400.23	11	3,042.59	11	2,682.11	11	2,321.48
1/4		1/4		1/4	4,501.82	1/4	4,250.07	1/4	3,978.74	1/4	3,688.08	1/4	3,394.11	1/4	3,035.08	1/4	2,674.60	1/4	2,313.96
1/2		1/2		1/2	4,495.73	1/2	4,244.65	1/2	3,972.88	1/2	3,681.95	1/2	3,387.98	1/2	3,027.57	1/2	2,667.08	1/2	2,306.45
3/4		3/4		3/4	4,490.19	3/4	4,239.20	3/4	3,966.97	3/4	3,675.83	3/4	3,380.47	3/4	3,020.07	3/4	2,659.57	3/4	2,298.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" "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 396"

3 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,291.42	0	1,931.25	0	1,571.32	0	1,210.85	0	850.57	0	503.26	0	143.15	0		0		0	
1/4	2,283.91	1/4	1,923.76	1/4	1,563.81	1/4	1,203.34	1/4	843.07	1/4	496.03	1/4	135.63	1/4		1/4		1/4	
1/2	2,276.40	1/2	1,916.27	1/2	1,556.30	1/2	1,195.83	1/2	835.57	1/2	488.80	1/2	128.12	1/2		1/2		1/2	
3/4	2,268.88	3/4	1,908.78	3/4	1,548.79	3/4	1,188.32	3/4	828.35	3/4	481.28	3/4	120.60	3/4		3/4		3/4	
1	2,261.37	1	1,901.29	1	1,541.28	1	1,180.81	1	821.12	1	473.77	1	113.09	1		1		1	
1/4	2,253.86	1/4	1,893.80	1/4	1,533.77	1/4	1,173.30	1/4	813.90	1/4	466.25	1/4	105.58	1/4		1/4		1/4	
1/2	2,246.35	1/2	1,886.31	1/2	1,526.26	1/2	1,165.79	1/2	806.68	1/2	458.74	1/2	98.06	1/2		1/2		1/2	
3/4	2,238.83	3/4	1,878.82	3/4	1,518.75	3/4	1,158.28	3/4	799.45	3/4	451.22	3/4	90.55	3/4		3/4		3/4	
2	2,231.32	2	1,871.33	2	1,511.24	2	1,150.77	2	792.23	2	443.71	2	83.03	2		2		2	
1/4	2,223.81	1/4	1,863.84	1/4	1,503.74	1/4	1,143.26	1/4	785.01	1/4	436.20	1/4	75.52	1/4		1/4		1/4	
1/2	2,216.29	1/2	1,856.35	1/2	1,496.23	1/2	1,135.75	1/2	777.78	1/2	428.68	1/2	68.01	1/2		1/2		1/2	
3/4	2,208.78	3/4	1,848.86	3/4	1,488.72	3/4	1,128.24	3/4	770.55	3/4	421.17	3/4	60.76	3/4		3/4		3/4	
3	2,201.27	3	1,841.37	3	1,481.21	3	1,120.73	3	763.31	3	413.65	3	53.51	3		3		3	
1/4	2,193.75	1/4	1,833.88	1/4	1,473.70	1/4	1,113.22	1/4	756.08	1/4	406.14	1/4	46.27	1/4		1/4		1/4	
1/2	2,186.24	1/2	1,826.39	1/2	1,466.19	1/2	1,105.71	1/2	748.85	1/2	398.63	1/2	39.02	1/2		1/2		1/2	
3/4	2,178.73	3/4	1,818.90	3/4	1,458.68	3/4	1,098.20	3/4	741.62	3/4	391.11	3/4	33.66	3/4		3/4		3/4	
4	2,171.21	4	1,811.41	4	1,451.17	4	1,090.69	4	734.40	4	383.60	4	28.29	4		4		4	
1/4	2,163.70	1/4	1,803.92	1/4	1,443.66	1/4	1,083.18	1/4	727.17	1/4	376.08	1/4	22.92	1/4		1/4		1/4	
1/2	2,156.19	1/2	1,796.43	1/2	1,436.15	1/2	1,075.67	1/2	719.95	1/2	368.57	1/2	17.55	1/2		1/2		1/2	
3/4	2,148.67	3/4	1,788.94	3/4	1,428.64	3/4	1,068.16	3/4	712.73	3/4	361.06	3/4		3/4		3/4		3/4	
5	2,141.16	5	1,781.45	5	1,421.13	5	1,060.65	5	705.50	5	353.54	5		5		5		5	
1/4	2,133.65	1/4	1,773.95	1/4	1,413.62	1/4	1,053.14	1/4	698.28	1/4	346.03	1/4		1/4		1/4		1/4	
1/2	2,126.13	1/2	1,766.46	1/2	1,406.11	1/2	1,045.63	1/2	691.06	1/2	338.51	1/2		1/2		1/2		1/2	
3/4	2,118.62	3/4	1,758.97	3/4	1,398.60	3/4	1,038.12	3/4	683.83	3/4	331.00	3/4		3/4		3/4		3/4	
6	2,111.11	6	1,751.48	6	1,391.09	6	1,030.61	6	676.61	6	323.48	6		6		6		6	
1/4	2,103.59	1/4	1,743.99	1/4	1,383.58	1/4	1,023.10	1/4	669.39	1/4	315.97	1/4		1/4		1/4		1/4	
1/2	2,096.08	1/2	1,736.50	1/2	1,376.07	1/2	1,015.59	1/2	662.16	1/2	308.46	1/2		1/2		1/2		1/2	
3/4	2,088.58	3/4	1,729.00	3/4	1,368.56	3/4	1,008.09	3/4	654.94	3/4	300.94	3/4		3/4		3/4		3/4	
7	2,081.08	7	1,721.50	7	1,361.05	7	1,000.59	7	647.72	7	293.43	7		7		7		7	
1/4	2,073.57	1/4	1,714.00	1/4	1,353.54	1/4	993.09	1/4	640.51	1/4	285.91	1/4		1/4		1/4		1/4	
1/2	2,066.07	1/2	1,706.50	1/2	1,346.03	1/2	985.59	1/2	633.29	1/2	278.40	1/2		1/2		1/2		1/2	
3/4	2,058.58	3/4	1,698.99	3/4	1,338.52	3/4	978.09	3/4	626.07	3/4	270.89	3/4		3/4		3/4		3/4	
8	2,051.09	8	1,691.48	8	1,331.01	8	970.59	8	618.85	8	263.37	8		8		8		8	
1/4	2,043.60	1/4	1,683.97	1/4	1,323.50	1/4	963.09	1/4	611.63	1/4	255.86	1/4		1/4		1/4		1/4	
1/2	2,036.11	1/2	1,676.46	1/2	1,315.99	1/2	955.58	1/2	604.41	1/2	248.34	1/2		1/2		1/2		1/2	
3/4	2,028.62	3/4	1,668.95	3/4	1,308.48	3/4	948.08	3/4	597.19	3/4	240.83	3/4		3/4		3/4		3/4	
9	2,021.13	9	1,661.44	9	1,300.97	9	940.58	9	589.96	9	233.32	9		9		9		9	
1/4	2,013.64	1/4	1,653.93	1/4	1,293.46	1/4	933.08	1/4	582.74	1/4	225.80	1/4		1/4		1/4		1/4	
1/2	2,006.15	1/2	1,646.42	1/2	1,285.95	1/2	925.58	1/2	575.52	1/2	218.29	1/2		1/2		1/2		1/2	
3/4	1,998.66	3/4	1,638.91	3/4	1,278.44	3/4	918.08	3/4	568.29	3/4	210.77	3/4		3/4		3/4		3/4	
10	1,991.17	10	1,631.40	10	1,270.93	10	910.58	10	561.07	10	203.26	10		10		10		10	
1/4	1,983.68	1/4	1,623.89	1/4	1,263.42	1/4	903.08	1/4	553.84	1/4	195.75	1/4		1/4		1/4		1/4	
1/2	1,976.19	1/2	1,616.38	1/2	1,255.91	1/2	895.58	1/2	546.62	1/2	188.23	1/2		1/2		1/2		1/2	
3/4	1,968.70	3/4	1,608.87	3/4	1,248.40	3/4	888.08	3/4	539.40	3/4	180.72	3/4		3/4		3/4		3/4	
11	1,961.21	11	1,601.36	11	1,240.89	11	880.58	11	532.17	11	173.20	11		11		11		11	
1/4	1,953.72	1/4	1,593.85	1/4	1,233.38	1/4	873.07	1/4	524.95	1/4	165.69	1/4		1/4		1/4		1/4	
1/2	1,946.23	1/2	1,586.34	1/2	1,225.87	1/2	865.57	1/2	517.73	1/2	158.17	1/2		1/2		1/2		1/2	
3/4	1,938.74	3/4	1,578.83	3/4	1,218.36	3/4	858.07	3/4	510.49	3/4	150.66	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 396"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	4,471.71	0	4,221.00	0	3,948.02	0	3,656.61	0	3,358.66	0	2,999.05	0	2,639.31
1/4		1/4		1/4		1/4	4,466.17	1/4	4,215.55	1/4	3,942.12	1/4	3,650.48	1/4	3,351.17	1/4	2,991.56	1/4	2,631.81
1/2		1/2		1/2		1/2	4,461.16	1/2	4,210.06	1/2	3,936.18	1/2	3,644.36	1/2	3,343.67	1/2	2,984.07	1/2	2,624.32
3/4		3/4		3/4		3/4	4,456.16	3/4	4,204.57	3/4	3,930.24	3/4	3,638.24	3/4	3,336.17	3/4	2,976.58	3/4	2,616.82
1		1		1		1	4,451.15	1	4,199.08	1	3,924.30	1	3,632.12	1	3,328.68	1	2,969.09	1	2,609.32
1/4		1/4		1/4		1/4	4,446.14	1/4	4,193.59	1/4	3,918.36	1/4	3,626.00	1/4	3,321.18	1/4	2,961.60	1/4	2,601.82
1/2		1/2		1/2		1/2	4,441.10	1/2	4,188.06	1/2	3,912.39	1/2	3,619.88	1/2	3,313.68	1/2	2,954.11	1/2	2,594.33
3/4		3/4		3/4		3/4	4,436.05	3/4	4,182.53	3/4	3,906.41	3/4	3,613.76	3/4	3,306.19	3/4	2,946.62	3/4	2,586.83
2		2		2		2	4,431.01	2	4,177.00	2	3,900.43	2	3,607.64	2	3,298.69	2	2,939.13	2	2,579.33
1/4		1/4		1/4		1/4	4,425.97	1/4	4,171.47	1/4	3,894.46	1/4	3,601.51	1/4	3,291.20	1/4	2,931.64	1/4	2,571.84
1/2		1/2		1/2		1/2	4,420.88	1/2	4,165.91	1/2	3,888.44	1/2	3,595.39	1/2	3,283.70	1/2	2,924.15	1/2	2,564.34
3/4		3/4		3/4		3/4	4,415.80	3/4	4,160.34	3/4	3,882.43	3/4	3,589.27	3/4	3,276.20	3/4	2,916.66	3/4	2,556.84
3		3		3		3	4,410.72	3	4,154.77	3	3,876.42	3	3,583.15	3	3,268.71	3	2,909.17	3	2,549.34
1/4		1/4		1/4		1/4	4,405.64	1/4	4,149.21	1/4	3,870.40	1/4	3,577.03	1/4	3,261.21	1/4	2,901.68	1/4	2,541.85
1/2		1/2		1/2		1/2	4,400.52	1/2	4,143.61	1/2	3,864.35	1/2	3,570.91	1/2	3,253.71	1/2	2,894.19	1/2	2,534.36
3/4		3/4		3/4		3/4	4,395.40	3/4	4,138.00	3/4	3,858.30	3/4	3,564.79	3/4	3,246.22	3/4	2,886.70	3/4	2,526.87
4		4		4		4	4,390.28	4	4,132.40	4	3,852.25	4	3,558.67	4	3,238.72	4	2,879.21	4	2,519.38
1/4		1/4		1/4		1/4	4,385.16	1/4	4,126.80	1/4	3,846.20	1/4	3,552.54	1/4	3,231.23	1/4	2,871.72	1/4	2,511.89
1/2		1/2		1/2		1/2	4,380.01	1/2	4,121.16	1/2	3,840.11	1/2	3,546.42	1/2	3,223.74	1/2	2,864.22	1/2	2,504.41
3/4		3/4		3/4		3/4	4,374.85	3/4	4,115.52	3/4	3,834.02	3/4	3,540.30	3/4	3,216.25	3/4	2,856.73	3/4	2,496.92
5		5		5		5	4,369.70	5	4,109.88	5	3,827.93	5	3,534.18	5	3,208.76	5	2,849.23	5	2,489.43
1/4		1/4		1/4		1/4	4,364.54	1/4	4,104.23	1/4	3,821.84	1/4	3,528.06	1/4	3,201.27	1/4	2,841.73	1/4	2,481.94
1/2		1/2		1/2		1/2	4,359.35	1/2	4,098.56	1/2	3,815.73	1/2	3,521.94	1/2	3,193.78	1/2	2,834.23	1/2	2,474.45
3/4		3/4		3/4		3/4	4,354.15	3/4	4,092.88	3/4	3,809.62	3/4	3,515.82	3/4	3,186.29	3/4	2,826.74	3/4	2,466.97
6		6		6		6	4,348.96	6	4,087.20	6	3,803.51	6	3,509.70	6	3,178.80	6	2,819.24	6	2,459.48
1/4		1/4		1/4		1/4	4,343.77	1/4	4,081.52	1/4	3,797.39	1/4	3,503.58	1/4	3,171.31	1/4	2,811.74	1/4	2,451.99
1/2		1/2		1/2	4,609.35	1/2	4,338.53	1/2	4,075.81	1/2	3,791.27	1/2	3,497.45	1/2	3,163.82	1/2	2,804.25	1/2	2,444.50
3/4		3/4		3/4	4,604.01	3/4	4,333.30	3/4	4,070.09	3/4	3,785.15	3/4	3,491.33	3/4	3,156.33	3/4	2,796.75	3/4	2,437.01
7		7		7	4,598.68	7	4,328.07	7	4,064.38	7	3,779.03	7	3,485.21	7	3,148.84	7	2,789.25	7	2,429.53
1/4		1/4		1/4	4,593.34	1/4	4,322.84	1/4	4,058.66	1/4	3,772.91	1/4	3,479.09	1/4	3,141.35	1/4	2,781.75	1/4	2,422.04
1/2		1/2		1/2	4,586.64	1/2	4,317.57	1/2	4,052.91	1/2	3,766.79	1/2	3,472.97	1/2	3,133.86	1/2	2,774.26	1/2	2,414.55
3/4		3/4		3/4	4,579.94	3/4	4,312.31	3/4	4,047.16	3/4	3,760.67	3/4	3,466.85	3/4	3,126.37	3/4	2,766.76	3/4	2,407.06
8		8		8	4,573.24	8	4,307.04	8	4,041.41	8	3,754.54	8	3,460.73	8	3,118.88	8	2,759.26	8	2,399.57
1/4		1/4		1/4	4,566.54	1/4	4,301.77	1/4	4,035.65	1/4	3,748.42	1/4	3,454.61	1/4	3,111.39	1/4	2,751.77	1/4	2,392.09
1/2		1/2		1/2	4,559.15	1/2	4,296.46	1/2	4,029.86	1/2	3,742.30	1/2	3,448.48	1/2	3,103.90	1/2	2,744.27	1/2	2,384.60
3/4		3/4		3/4	4,551.77	3/4	4,291.16	3/4	4,024.07	3/4	3,736.18	3/4	3,442.36	3/4	3,096.41	3/4	2,736.77	3/4	2,377.11
9		9		9	4,544.38	9	4,285.85	9	4,018.28	9	3,730.06	9	3,436.24	9	3,088.92	9	2,729.27	9	2,369.62
1/4		1/4		1/4	4,536.99	1/4	4,280.55	1/4	4,012.49	1/4	3,723.94	1/4	3,430.12	1/4	3,081.43	1/4	2,721.78	1/4	2,362.13
1/2		1/2		1/2	4,530.91	1/2	4,275.17	1/2	4,006.67	1/2	3,717.82	1/2	3,424.00	1/2	3,073.94	1/2	2,714.28	1/2	2,354.64
3/4		3/4		3/4	4,524.82	3/4	4,269.79	3/4	4,000.84	3/4	3,711.70	3/4	3,417.88	3/4	3,066.45	3/4	2,706.78	3/4	2,347.16
10		10		10	4,518.74	10	4,264.41	10	3,995.01	10	3,705.57	10	3,411.76	10	3,058.96	10	2,699.29	10	2,339.67
1/4		1/4		1/4	4,512.66	1/4	4,259.03	1/4	3,989.19	1/4	3,699.45	1/4	3,405.64	1/4	3,051.47	1/4	2,691.79	1/4	2,332.18
1/2		1/2		1/2	4,506.57	1/2	4,253.61	1/2	3,983.32	1/2	3,693.33	1/2	3,399.51	1/2	3,043.98	1/2	2,684.29	1/2	2,324.69
3/4		3/4		3/4	4,500.49	3/4	4,248.20	3/4	3,977.46	3/4	3,687.21	3/4	3,393.39	3/4	3,036.50	3/4	2,676.79	3/4	2,317.20
11		11		11	4,494.40	11	4,242.78	11	3,971:59	11	3,681.09	11	3,387.27	11	3,029.01	11	2,669.30	11	2,309.72
1/4		1/4		1/4	4,488.32	1/4	4,237.37	1/4	3,965.73	1/4	3,674.97	1/4	3,381.15	1/4	3,021.52	1/4	2,661.80	1/4	2,302.23
1/2		1/2		1/2	4,482.78	1/2	4,231.91	1/2	3,959.83	1/2	3,668.85	1/2	3,373.65	1/2	3,014.03	1/2	2,654.30	1/2	2,294.73
3/4		3/4		3/4	4,477.24	3/4	4,226.46	3/4	3,953.92	3/4	3,662.73	3/4	3,366.16	3/4	3,006.54	3/4	2,646.81	3/4	2,287.23

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 396"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,279.73	0	1,921.41	0	1,563.62	0	1,203.85	0	844.08	0	495.08	0	135.40	0		0		0	
1/4	2,272.23	1/4	1,913.99	1/4	1,556.13	1/4	1,196.35	1/4	836.58	1/4	487.81	1/4	127.90	1/4		1/4		1/4	
1/2	2,264.73	1/2	1,906.57	1/2	1,548.63	1/2	1,188.86	1/2	829.31	1/2	480.31	1/2	120.41	1/2		1/2		1/2	
3/4	2,257.24	3/4	1,899.15	3/4	1,541.14	3/4	1,181.36	3/4	822.03	3/4	472.81	3/4	112.91	3/4		3/4		3/4	
1	2,249.74	1	1,891.72	1	1,533.64	1	1,173.87	1	814.76	1	465.31	1	105.41	1		1		1	
1/4	2,242.24	1/4	1,884.30	1/4	1,526.15	1/4	1,166.37	1/4	807.48	1/4	457.82	1/4	97.91	1/4		1/4		1/4	
1/2	2,234.74	1/2	1,876.88	1/2	1,518.65	1/2	1,158.88	1/2	800.21	1/2	450.32	1/2	90.41	1/2		1/2		1/2	
3/4	2,227.24	3/4	1,869.46	3/4	1,511.16	3/4	1,151.38	3/4	792.94	3/4	442.82	3/4	82.92	3/4		3/4		3/4	
2	2,219.74	2	1,862.04	2	1,503.66	2	1,143.89	2	785.66	2	435.32	2	75.42	2		2		2	
1/4	2,212.24	1/4	1,854.62	1/4	1,496.17	1/4	1,136.39	1/4	778.39	1/4	427.82	1/4	67.92	1/4		1/4		1/4	
1/2	2,204.75	1/2	1,847.19	1/2	1,488.67	1/2	1,128.90	1/2	771.11	1/2	420.33	1/2	60.69	1/2		1/2		1/2	
3/4	2,197.25	3/4	1,839.77	3/4	1,481.18	3/4	1,121.40	3/4	763.84	3/4	412.83	3/4	53.46	3/4		3/4		3/4	
3	2,189.75	3	1,832.35	3	1,473.68	3	1,113.91	3	756.57	3	405.33	3	46.23	3		3		3	
1/4	2,182.25	1/4	1,824.93	1/4	1,466.19	1/4	1,106.41	1/4	749.29	1/4	397.83	1/4	39.00	1/4		1/4		1/4	
1/2	2,174.75	1/2	1,817.51	1/2	1,458.69	1/2	1,098.92	1/2	742.03	1/2	390.33	1/2	33.64	1/2		1/2		1/2	
3/4	2,167.25	3/4	1,810.09	3/4	1,451.19	3/4	1,091.42	3/4	734.77	3/4	382.84	3/4	28.27	3/4		3/4		3/4	
4	2,159.75	4	1,802.66	4	1,443.70	4	1,083.92	4	727.50	4	375.34	4	22.91	4		4		4	
1/4	2,152.26	1/4	1,795.24	1/4	1,436.20	1/4	1,076.43	1/4	720.24	1/4	367.84	1/4	17.55	1/4		1/4		1/4	
1/2	2,144.76	1/2	1,787.82	1/2	1,428.71	1/2	1,068.93	1/2	712.98	1/2	360.34	1/2		1/2		1/2		1/2	
3/4	2,137.26	3/4	1,780.40	3/4	1,421.21	3/4	1,061.44	3/4	705.71	3/4	352.84	3/4		3/4		3/4		3/4	
5	2,129.76	5	1,772.98	5	1,413.72	5	1,053.94	5	698.45	5	345.35	5		5		5		5	
1/4	2,122.26	1/4	1,765.56	1/4	1,406.22	1/4	1,046.45	1/4	691.19	1/4	337.85	1/4		1/4		1/4		1/4	
1/2	2,114.76	1/2	1,758.13	1/2	1,398.73	1/2	1,038.95	1/2	683.92	1/2	330.35	1/2		1/2		1/2		1/2	
3/4	2,107.26	3/4	1,750.71	3/4	1,391.23	3/4	1,031.46	3/4	676.66	3/4	322.85	3/4		3/4		3/4		3/4	
6	2,099.77	6	1,743.29	6	1,383.74	6	1,023.96	6	669.39	6	315.35	6		6		6		6	
1/4	2,092.27	1/4	1,735.87	1/4	1,376.24	1/4	1,016.47	1/4	662.13	1/4	307.86	1/4		1/4		1/4		1/4	
1/2	2,084.81	1/2	1,728.41	1/2	1,368.75	1/2	1,008.97	1/2	654.87	1/2	300.36	1/2		1/2		1/2		1/2	
3/4	2,077.35	3/4	1,720.95	3/4	1,361.25	3/4	1,001.48	3/4	647.61	3/4	292.86	3/4		3/4		3/4		3/4	
7	2,069.88	7	1,713.49	7	1,353.76	7	993.98	7	640.35	7	285.36	7		7		7		7	
1/4	2,062.42	1/4	1,706.03	1/4	1,346.26	1/4	986.49	1/4	633.10	1/4	277.86	1/4		1/4		1/4		1/4	
1/2	2,055.00	1/2	1,698.54	1/2	1,338.76	1/2	978.99	1/2	625.84	1/2	270.37	1/2		1/2		1/2		1/2	
3/4	2,047.58	3/4	1,691.04	3/4	1,331.27	3/4	971.50	3/4	618.58	3/4	262.87	3/4		3/4		3/4		3/4	
8	2,040.16	8	1,683.55	8	1,323.77	8	964.00	8	611.32	8	255.37	8		8		8		8	
1/4	2,032.74	1/4	1,676.05	1/4	1,316.28	1/4	956.50	1/4	604.06	1/4	247.87	1/4		1/4		1/4		1/4	
1/2	2,025.32	1/2	1,668.56	1/2	1,308.78	1/2	949.01	1/2	596.80	1/2	240.37	1/2		1/2		1/2		1/2	
3/4	2,017.89	3/4	1,661.06	3/4	1,301.29	3/4	941.51	3/4	589.53	3/4	232.88	3/4		3/4		3/4		3/4	
9	2,010.47	9	1,653.57	9	1,293.79	9	934.02	9	582.27	9	225.38	9		9		9		9	
1/4	2,003.05	1/4	1,646.07	1/4	1,286.30	1/4	926.52	1/4	575.01	1/4	217.88	1/4		1/4		1/4		1/4	
1/2	1,995.63	1/2	1,638.58	1/2	1,278.80	1/2	919.03	1/2	567.74	1/2	210.38	1/2		1/2		1/2		1/2	
3/4	1,988.21	3/4	1,631.08	3/4	1,271.31	3/4	911.53	3/4	560.48	3/4	202.88	3/4		3/4		3/4		3/4	
10	1,980.78	10	1,623.59	10	1,263.81	10	904.04	10	553.21	10	195.39	10		10		10		10	
1/4	1,973.36	1/4	1,616.09	1/4	1,256.32	1/4	896.54	1/4	545.95	1/4	187.89	1/4		1/4		1/4		1/4	
1/2	1,965.94	1/2	1,608.60	1/2	1,248.82	1/2	889.05	1/2	538.69	1/2	180.39	1/2		1/2		1/2		1/2	
3/4	1,958.52	3/4	1,601.10	3/4	1,241.33	3/4	881.55	3/4	531.42	3/4	172.89	3/4		3/4		3/4		3/4	
11	1,951.10	11	1,593.61	11	1,233.83	11	874.06	11	524.16	11	165.39	11		11		11		11	
1/4	1,943.68	1/4	1,586.11	1/4	1,226.34	1/4	866.56	1/4	516.90	1/4	157.90	1/4		1/4		1/4		1/4	
1/2	1,936.25	1/2	1,578.61	1/2	1,218.84	1/2	859.07	1/2	509.62	1/2	150.40	1/2		1/2		1/2		1/2	
3/4	1,928.83	3/4	1,571.12	3/4	1,211.34	3/4	851.57	3/4	502.35	3/4	142.90	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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

BARGE "EMS 396"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 00-1/4	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	- 01-1/2	01-1/2
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	- 01-1/2	01-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 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"

May 17, 2016

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

http://www.pmacorp.net

BARGE "EMS 396"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	16.18	0	267.84	0	551.99	0	858.66	0	1,186.40	0	1,517.80	0	1,849.20	0	2,180.59	0	2,511.99	0	2,843.38
1/4	19.41	1/4	273.53	1/4	558.18	1/4	865.29	1/4	1,193.31	1/4	1,524.70	1/4	1,856.10	1/4	2,187.50	1/4	2,518.89	1/4	2,850.28
1/2	22.64	1/2	279.22	1/2	564.36	1/2	871.93	1/2	1,200.21	1/2	1,531.61	1/2	1,863.00	1/2	2,194.40	1/2	2,525.80	1/2	2,857.18
3/4	25.86	3/4	284.92	3/4	570.55	3/4	878.57	3/4	1,207.11	3/4	1,538.51	3/4	1,869.91	3/4	2,201.30	3/4	2,532.70	3/4	2,864.09
1	29.09	1	290.61	1	576.74	1	885.20	1	1,214.02	1	1,545.41	1	1,876.81	1	2,208.21	1	2,539.61	1	2,870.99
1/4	34.09	1/4	296.35	1/4	582.96	1/4	891.88	1/4	1,220.92	1/4	1,552.32	1/4	1,883.72	1/4	2,215.11	1/4	2,546.51	1/4	2,877.89
1/2	39.09	1/2	302.08	1/2	589.19	1/2	898.56	1/2	1,227.83	1/2	1,559.22	1/2	1,890.62	1/2	2,222.02	1/2	2,553.41	1/2	2,884.80
3/4	44.08	3/4	307.82	3/4	595.42	3/4	905.24	3/4	1,234.73	3/4	1,566.13	3/4	1,897.52	3/4	2,228.92	3/4	2,560.32	3/4	2,891.70
2	49.08	2	313.55	2	601.64	2	911.91	2	1,241.63	2	1,573.03	2	1,904.43	2	2,235.82	2	2,567.22	2	2,898.60
1/4	54.36	1/4	319.33	1/4	607.91	1/4	918.63	1/4	1,248.54	1/4	1,579.94	1/4	1,911.33	1/4	2,242.73	1/4	2,574.13	1/4	2,905.51
1/2	59.65	1/2	325.11	1/2	614.18	1/2	925.35	1/2	1,255.44	1/2	1,586.84	1/2	1,918.24	1/2	2,249.63	1/2	2,581.03	1/2	2,912.41
3/4	64.93	3/4	330.88	3/4	620.45	3/4	932.07	3/4	1,262.35	3/4	1,593.74	3/4	1,925.14	3/4	2,256.54	3/4	2,587.93	3/4	2,919.31
3	70.22	3	336.66	3	626.72	3	938.79	3	1,269.25	3	1,600.65	3	1,932.04	3	2,263.44	3	2,594.84	3	2,926.22
1/4	75.54	1/4	342.48	1/4	633.03	1/4	945.57	1/4	1,276.15	1/4	1,607.55	1/4	1,938.95	1/4	2,270.35	1/4	2,601.74	1/4	2,933.12
1/2	80.87	1/2	348.29	1/2	639.34	1/2	952.34	1/2	1,283.06	1/2	1,614.46	1/2	1,945.85	1/2	2,277.25	1/2	2,608.65	1/2	2,940.02
3/4	86.19	3/4	354.11	3/4	645.65	3/4	959.12	3/4	1,289.96	3/4	1,621.36	3/4	1,952.76	3/4	2,284.15	3/4	2,615.55	3/4	2,946.93
4	91.52	4	359.93	4	651.96	4	965.90	4	1,296.87	4	1,628.26	4	1,959.66	4	2,291.06	4	2,622.45	4	2,953.83
1/4	96.89	1/4	365.79	1/4	658.31	1/4	972.71	1/4	1,303.77	1/4	1,635.17	1/4	1,966.56	1/4	2,297.96	1/4	2,629.36	1/4	2,960.73
1/2	102.25	1/2	371.65	1/2	664.66	1/2	979.53	1/2	1,310.68	1/2	1,642.07	1/2	1,973.47	1/2	2,304.87	1/2	2,636.26	1/2	2,967.64
3/4	107.62	3/4	377.50	3/4	671.01	3/4	986.35	3/4	1,317.58	3/4	1,648.98	3/4	1,980.37	3/4	2,311.77	3/4	2,643.17	3/4	2,974.54
5	112.98	5	383.36	5	677.36	5	993.17	5	1,324.48	5	1,655.88	5	1,987.28	5	2,318.67	5	2,650.07	5	2,981.44
1/4	118.39	1/4	389.26	1/4	683.72	1/4	1,000.05	1/4	1,331.39	1/4	1,662.78	1/4	1,994.18	1/4	2,325.58	1/4	2,656.97	1/4	2,988.35
1/2	123.80	1/2	395.16	1/2	690.08	1/2	1,006.94	1/2	1,338.29	1/2	1,669.69	1/2	2,001.09	1/2	2,332.48	1/2	2,663.88	1/2	2,995.25
3/4	129.21	3/4	401.06	3/4	696.45	3/4	1,013.82	3/4	1,345.20	3/4	1,676.59	3/4	2,007.99	3/4	2,339.39	3/4	2,670.78	3/4	3,002.15
6	134.61	6	406.96	6	702.81	6	1,020.70	6	1,352.10	6	1,683.50	6	2,014.89	6	2,346.29	6	2,677.69	6	3,009.06
1/4	140.06	1/4	412.90	1/4	709.21	1/4	1,027.61	1/4	1,359.00	1/4	1,690.40	1/4	2,021.80	1/4	2,353.19	1/4	2,684.59	1/4	3,015.96
1/2	145.51	1/2	418.84	1/2	715.61	1/2	1,034.51	1/2	1,365.91	1/2	1,697.31	1/2	2,028.70	1/2	2,360.10	1/2	2,691.50	1/2	3,022.86
3/4	150.96	3/4	424.78	3/4	722.02	3/4	1,041.42	3/4	1,372.81	3/4	1,704.21	3/4	2,035.61	3/4	2,367.00	3/4	2,698.40	3/4	3,029.76
7	156.41	7	430.72	7	728.42	7	1,048.32	7	1,379.72	7	1,711.11	7	2,042.51	7	2,373.91	7	2,705.30	7	3,036.67
1/4	161.90	1/4	436.70	1/4	734.85	1/4	1,055.22	1/4	1,386.62	1/4	1,718.02	1/4	2,049.41	1/4	2,380.81	1/4	2,712.21	1/4	3,043.57
1/2	167.39	1/2	442.68	1/2	741.29	1/2	1,062.13	1/2	1,393.52	1/2	1,724.92	1/2	2,056.32	1/2	2,387.72	1/2	2,719.11	1/2	3,050.47
3/4	172.88	3/4	448.67	3/4	747.72	3/4	1,069.03	3/4	1,400.43	3/4	1,731.83	3/4	2,063.22	3/4	2,394.62	3/4	2,726.02	3/4	3,057.38
8	178.37	8	454.65	8	754.15	8	1,075.94	8	1,407.33	8	1,738.73	8	2,070.13	8	2,401.52	8	2,732.92	8	3,064.28
1/4	183.90	1/4	460.67	1/4	760.62	1/4	1,082.84	1/4	1,414.24	1/4	1,745.63	1/4	2,077.03	1/4	2,408.43	1/4	2,739.82	1/4	3,071.18
1/2	189.43	1/2	466.69	1/2	767.09	1/2	1,089.74	1/2	1,421.14	1/2	1,752.54	1/2	2,083.93	1/2	2,415.33	1/2	2,746.73	1/2	3,078.09
3/4	194.96	3/4	472.71	3/4	773.57	3/4	1,096.65	3/4	1,428.05	3/4	1,759.44	3/4	2,090.84	3/4	2,422.24	3/4	2,753.63	3/4	3,084.99
9	200.49	9	478.74	9	780.04	9	1,103.55	9	1,434.95	9	1,766.35	9	2,097.74	9	2,429.14	9	2,760.54	9	3,091.89
1/4	206.06	1/4	484.80	1/4	786.55	1/4	1,110.46	1/4	1,441.85	1/4	1,773.25	1/4	2,104.65	1/4	2,436.04	1/4	2,767.44	1/4	3,098.80
1/2	211.63	1/2	490.86	1/2	793.07	1/2	1,117.36	1/2	1,448.76	1/2	1,780.15	1/2	2,111.55	1/2	2,442.95	1/2	2,774.34	1/2	3,105.70
3/4	217.20	3/4	496.93	3/4	799.58	3/4	1,124.26	3/4	1,455.66	3/4	1,787.06	3/4	2,118.46	3/4	2,449.85	3/4	2,781.25	3/4	3,112.60
10	222.77	10	502.99	10	806.09	10	1,131.17	10	1,462.57	10	1,793.96	10	2,125.36	10	2,456.76	10	2,788.15	10	3,119.51
1/4	228.38	1/4	509.09	1/4	812.64	1/4	1,138.07	1/4	1,469.47	1/4	1,800.87	1/4	2,132.26	1/4	2,463.66	1/4	2,795.06	1/4	3,126.41
1/2	234.00	1/2	515.20	1/2	819.19	1/2	1,144.98	1/2	1,476.37	1/2	1,807.77	1/2	2,139.17	1/2	2,470.56	1/2	2,801.96	1/2	3,133.31
3/4	239.61	3/4	521.30	3/4	825.74	3/4	1,151.88	3/4	1,483.28	3/4	1,814.67	3/4	2,146.07	3/4	2,477.47	3/4	2,808.86	3/4	3,140.22
11	245.22	11	527.41	11	832.29	11	1,158.79	11	1,490.18	11	1,821.58	11	2,152.98	11	2,484.37	11	2,815.77	11	3,147.12
1/4	250.88	1/4	533.55	1/4	838.88	1/4	1,165.69	1/4	1,497.09	1/4	1,828.48	1/4	2,159.88	1/4	2,491.28	1/4	2,822.67	1/4	3,154.02
1/2	256.53	1/2	539.70	1/2	845.48	1/2	1,172.59	1/2	1,503.99	1/2	1,835.39	1/2	2,166.78	1/2	2,498.18	1/2	2,829.57	1/2	3,160.93
3/4	262.18	3/4	545.84	3/4	852.07	3/4	1,179.50	3/4	1,510.89	3/4	1,842.29	3/4	2,173.69	3/4	2,505.08	3/4	2,836.48	3/4	3,167.83

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 INNAGE GAUGES TAKEN TO TOP OF 2" "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "EMS 396"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,174.73	0	3,505.95	0	3,825.15	0	4,123.77	0		0		0		0		0		0	
1/4	3,181.64	1/4	3,512.78	1/4	3,831.57	1/4	4,129.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,188.54	1/2	3,519.62	1/2	3,838.00	1/2	4,135.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,195.44	3/4	3,526.46	3/4	3,844.43	3/4	4,141.70	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,202.34	1	3,533.30	1	3,850.85	1	4,147.67	1		1		1		1		1		1	
1/4	3,209.25	1/4	3,540.11	1/4	3,857.25	1/4	4,153.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,216.15	1/2	3,546.91	1/2	3,863.64	1/2	4,159.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,223.05	3/4	3,553.71	3/4	3,870.03	3/4	4,165.50	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,229.96	2	3,560.52	2	3,876.42	2	4,171.44	2		2		2		2		2		2	
1/4	3,236.86	1/4	3,567.29	1/4	3,882.78	1/4	4,177.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.76	1/2	3,574.06	1/2	3,889.14	1/2	4,183.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.67	3/4	3,580.83	3/4	3,895.50	3/4	4,189.16	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,257.57	3	3,587.60	3	3,901.86	3	4,195.06	3		3		3		3		3		3	
1/4	3,264.47	1/4	3,594.34	1/4	3,908.18	1/4	4,200.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,271.38	1/2	3,601.07	1/2	3,914.50	1/2	4,206.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,278.28	3/4	3,607.81	3/4	3,920.83	3/4	4,212.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,285.18	4	3,614.54	4	3,927.15	4	4,218.55	4		4		4		4		4		4	
1/4	3,292.09	1/4	3,621.24	1/4	3,933.44	1/4	4,224.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.99	1/2	3,627.95	1/2	3,939.73	1/2	4,231.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.89	3/4	3,634.65	3/4	3,946.02	3/4	4,237.63	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,312.80	5	3,641.35	5	3,952.31	5	4,243.99	5		5		5		5		5		5	
1/4	3,319.70	1/4	3,648.02	1/4	3,958.56	1/4	4,250.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,326.60	1/2	3,654.68	1/2	3,964.82	1/2	4,257.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,333.51	3/4	3,661.35	3/4	3,971.08	3/4	4,264.58	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,340.41	6	3,668.02	6	3,977.33	6	4,271.44	6		6		6		6		6		6	
1/4	3,347.31	1/4	3,674.65	1/4	3,983.55	1/4	4,278.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,354.22	1/2	3,681.28	1/2	3,989.77	1/2	4,285.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,361.12	3/4	3,687.92	3/4	3,995.99	3/4	4,292.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,368.02	7	3,694.55	7	4,002.21	7	4,298.89	7		7		7		7		7		7	
1/4	3,374.92	1/4	3,701.15	1/4	4,008.36	1/4	4,305.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,381.83	1/2	3,707.75	1/2	4,014.51	1/2	4,312.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,388.73	3/4	3,714.34	3/4	4,020.65	3/4	4,319.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,395.63	8	3,720.94	8	4,026.80	8	4,326.05	8		8		8		8		8		8	
1/4	3,402.54	1/4	3,727.51	1/4	4,032.91	1/4	4,332.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,409.44	1/2	3,734.07	1/2	4,039.03	1/2	4,338.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,416.34	3/4	3,740.64	3/4	4,045.14	3/4	4,344.53	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,423.25	9	3,747.20	9	4,051.25	9	4,350.69	9		9		9		9		9		9	
1/4	3,430.15	1/4	3,753.73	1/4	4,057.33	1/4	4,355.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,437.05	1/2	3,760.26	1/2	4,063.41	1/2	4,360.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,443.96	3/4	3,766.79	3/4	4,069.48	3/4	4,365.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,450.86	10	3,773.32	10	4,075.56	10		10		10		10		10		10		10	
1/4	3,457.76	1/4	3,779.81	1/4	4,081.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,464.66	1/2	3,786.31	1/2	4,087.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,471.55	3/4	3,792.81	3/4	4,093.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,478.45	11	3,799.30	11	4,099.74	11		11		11		11		11		11		11	
1/4	3,485.33	1/4	3,805.76	1/4	4,105.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,492.20	1/2	3,812.22	1/2	4,111.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,499.07	3/4	3,818.68	3/4	4,117.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 396"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	16.20	0	268.14	0	552.62	0	860.46	0	1,189.14	0	1,520.94	0	1,852.74	0	2,184.54	0	2,516.34	0	2,848.13
1/4	19.43	1/4	273.84	1/4	558.82	1/4	867.13	1/4	1,196.05	1/4	1,527.85	1/4	1,859.65	1/4	2,191.45	1/4	2,523.25	1/4	2,855.04
1/2	22.66	1/2	279.54	1/2	565.01	1/2	873.81	1/2	1,202.97	1/2	1,534.77	1/2	1,866.57	1/2	2,198.37	1/2	2,530.17	1/2	2,861.95
3/4	25.89	3/4	285.24	3/4	571.20	3/4	880.48	3/4	1,209.88	3/4	1,541.68	3/4	1,873.48	3/4	2,205.28	3/4	2,537.08	3/4	2,868.87
1	29.13	1	290.94	1	577.40	1	887.15	1	1,216.79	1	1,548.59	1	1,880.39	1	2,212.19	1	2,543.99	1	2,875.78
1/4	34.13	1/4	296.68	1/4	583.63	1/4	893.87	1/4	1,223.70	1/4	1,555.50	1/4	1,887.30	1/4	2,219.10	1/4	2,550.90	1/4	2,882.69
1/2	39.13	1/2	302.43	1/2	589.87	1/2	900.58	1/2	1,230.62	1/2	1,562.42	1/2	1,894.22	1/2	2,226.02	1/2	2,557.82	1/2	2,889.60
3/4	44.13	3/4	308.17	3/4	596.10	3/4	907.30	3/4	1,237.53	3/4	1,569.33	3/4	1,901.13	3/4	2,232.93	3/4	2,564.73	3/4	2,896.51
2	49.14	2	313.91	2	602.34	2	914.01	2	1,244.44	2	1,576.24	2	1,908.04	2	2,239.84	2	2,571.64	2	2,903.42
1/4	54.43	1/4	319.69	1/4	608.61	1/4	920.77	1/4	1,251.35	1/4	1,583.15	1/4	1,914.95	1/4	2,246.75	1/4	2,578.55	1/4	2,910.33
1/2	59.72	1/2	325.48	1/2	614.89	1/2	927.52	1/2	1,258.27	1/2	1,590.07	1/2	1,921.87	1/2	2,253.67	1/2	2,585.47	1/2	2,917.25
3/4	65.01	3/4	331.26	3/4	621.16	3/4	934.28	3/4	1,265.18	3/4	1,596.98	3/4	1,928.78	3/4	2,260.58	3/4	2,592.38	3/4	2,924.16
3	70.30	3	337.04	3	627.44	3	941.03	3	1,272.09	3	1,603.89	3	1,935.69	3	2,267.49	3	2,599.29	3	2,931.07
1/4	75.63	1/4	342.87	1/4	633.76	1/4	947.84	1/4	1,279.00	1/4	1,610.80	1/4	1,942.60	1/4	2,274.40	1/4	2,606.20	1/4	2,937.98
1/2	80.96	1/2	348.69	1/2	640.07	1/2	954.65	1/2	1,285.92	1/2	1,617.72	1/2	1,949.52	1/2	2,281.32	1/2	2,613.12	1/2	2,944.89
3/4	86.29	3/4	354.51	3/4	646.39	3/4	961.46	3/4	1,292.83	3/4	1,624.63	3/4	1,956.43	3/4	2,288.23	3/4	2,620.03	3/4	2,951.80
4	91.62	4	360.34	4	652.71	4	968.27	4	1,299.74	4	1,631.54	4	1,963.34	4	2,295.14	4	2,626.94	4	2,958.71
1/4	96.99	1/4	366.20	1/4	659.06	1/4	975.12	1/4	1,306.65	1/4	1,638.45	1/4	1,970.25	1/4	2,302.05	1/4	2,633.85	1/4	2,965.62
1/2	102.37	1/2	372.07	1/2	665.42	1/2	981.97	1/2	1,313.57	1/2	1,645.37	1/2	1,977.17	1/2	2,308.97	1/2	2,640.77	1/2	2,972.54
3/4	107.74	3/4	377.93	3/4	671.78	3/4	988.82	3/4	1,320.48	3/4	1,652.28	3/4	1,984.08	3/4	2,315.88	3/4	2,647.68	3/4	2,979.45
5	113.11	5	383.80	5	678.14	5	995.67	5	1,327.39	5	1,659.19	5	1,990.99	5	2,322.79	5	2,654.59	5	2,986.36
1/4	118.53	1/4	389.71	1/4	684.54	1/4	1,002.57	1/4	1,334.30	1/4	1,666.10	1/4	1,997.90	1/4	2,329.70	1/4	2,661.50	1/4	2,993.27
1/2	123.94	1/2	395.61	1/2	690.93	1/2	1,009.46	1/2	1,341.22	1/2	1,673.02	1/2	2,004.82	1/2	2,336.62	1/2	2,668.42	1/2	3,000.18
3/4	129.35	3/4	401.52	3/4	697.33	3/4	1,016.35	3/4	1,348.13	3/4	1,679.93	3/4	2,011.73	3/4	2,343.53	3/4	2,675.33	3/4	3,007.09
6	134.77	6	407.42	6	703.73	6	1,023.24	6	1,355.04	6	1,686.84	6	2,018.64	6	2,350.44	6	2,682.24	6	3,014.00
1/4	140.22	1/4	413.37	1/4	710.17	1/4	1,030.15	1/4	1,361.95	1/4	1,693.75	1/4	2,025.55	1/4	2,357.35	1/4	2,689.15	1/4	3,020.91
1/2	145.68	1/2	419.32	1/2	716.61	1/2	1,037.07	1/2	1,368.87	1/2	1,700.67	1/2	2,032.47	1/2	2,364.27	1/2	2,696.07	1/2	3,027.83
3/4	151.13	3/4	425.27	3/4	723.05	3/4	1,043.98	3/4	1,375.78	3/4	1,707.58	3/4	2,039.38	3/4	2,371.18	3/4	2,702.98	3/4	3,034.74
7	156.58	7	431.21	7	729.49	7	1,050.89	7	1,382.69	7	1,714.49	7	2,046.29	7	2,378.09	7	2,709.89	7	3,041.65
1/4	162.08	1/4	437.20	1/4	735.96	1/4	1,057.80	1/4	1,389.60	1/4	1,721.40	1/4	2,053.20	1/4	2,385.00	1/4	2,716.80	1/4	3,048.56
1/2	167.58	1/2	443.19	1/2	742.43	1/2	1,064.72	1/2	1,396.52	1/2	1,728.32	1/2	2,060.12	1/2	2,391.92	1/2	2,723.72	1/2	3,055.47
3/4	173.07	3/4	449.18	3/4	748.90	3/4	1,071.63	3/4	1,403.43	3/4	1,735.23	3/4	2,067.03	3/4	2,398.83	3/4	2,730.63	3/4	3,062.38
8	178.57	8	455.17	8	755.36	8	1,078.54	8	1,410.34	8	1,742.14	8	2,073.94	8	2,405.74	8	2,737.54	8	3,069.29
1/4	184.10	1/4	461.20	1/4	761.87	1/4	1,085.45	1/4	1,417.25	1/4	1,749.05	1/4	2,080.85	1/4	2,412.65	1/4	2,744.45	1/4	3,076.21
1/2	189.64	1/2	467.22	1/2	768.38	1/2	1,092.37	1/2	1,424.17	1/2	1,755.97	1/2	2,087.77	1/2	2,419.57	1/2	2,751.37	1/2	3,083.12
3/4	195.18	3/4	473.25	3/4	774.89	3/4	1,099.28	3/4	1,431.08	3/4	1,762.88	3/4	2,094.68	3/4	2,426.48	3/4	2,758.28	3/4	3,090.03
9	200.71	9	479.28	9	781.40	9	1,106.19	9	1,437.99	9	1,769.79	9	2,101.59	9	2,433.39	9	2,765.19	9	3,096.94
1/4	206.29	1/4	485.35	1/4	787.95	1/4	1,113.10	1/4	1,444.90	1/4	1,776.70	1/4	2,108.50	1/4	2,440.30	1/4	2,772.10	1/4	3,103.85
1/2	211.87	1/2	491.42	1/2	794.50	1/2	1,120.02	1/2	1,451.82	1/2	1,783.62	1/2	2,115.42	1/2	2,447.22	1/2	2,779.02	1/2	3,110.76
3/4	217.45	3/4	497.50	3/4	801.05	3/4	1,126.93	3/4	1,458.73	3/4	1,790.53	3/4	2,122.33	3/4	2,454.13	3/4	2,785.93	3/4	3,117.67
10	223.02	10	503.57	10	807.60	10	1,133.84	10	1,465.64	10	1,797.44	10	2,129.24	10	2,461.04	10	2,792.84	10	3,124.58
1/4	228.64	1/4	509.68	1/4	814.19	1/4	1,140.75	1/4	1,472.55	1/4	1,804.35	1/4	2,136.15	1/4	2,467.95	1/4	2,799.75	1/4	3,131.50
1/2	234.26	1/2	515.79	1/2	820.78	1/2	1,147.67	1/2	1,479.47	1/2	1,811.27	1/2	2,143.07	1/2	2,474.87	1/2	2,806.66	1/2	3,138.41
3/4	239.88	3/4	521.90	3/4	827.36	3/4	1,154.58	3/4	1,486.38	3/4	1,818.18	3/4	2,149.98	3/4	2,481.78	3/4	2,813.58	3/4	3,145.32
11	245.50	11	528.01	11	833.95	11	1,161.49	11	1,493.29	11	1,825.09	11	2,156.89	11	2,488.69	11	2,820.49	11	3,152.23
1/4	251.16	1/4	534.16	1/4	840.58	1/4	1,168.40	1/4	1,500.20	1/4	1,832.00	1/4	2,163.80	1/4	2,495.60	1/4	2,827.40	1/4	3,159.14
1/2	256.82	1/2	540.32	1/2	847.20	1/2	1,175.32	1/2	1,507.12	1/2	1,838.92	1/2	2,170.72	1/2	2,502.52	1/2	2,834.31	1/2	3,166.05
3/4	262.48	3/4	546.47	3/4	853.83	3/4	1,182.23	3/4	1,514.03	3/4	1,845.83	3/4	2,177.63	3/4	2,509.43	3/4	2,841.22	3/4	3,172.96

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

BARGE "EMS 396"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,179.87	0	3,511.47	0	3,831.05	0	4,130.03	0		0		0		0		0		0	
1/4	3,186.79	1/4	3,518.32	1/4	3,837.49	1/4	4,136.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.70	1/2	3,525.17	1/2	3,843.92	1/2	4,141.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.61	3/4	3,532.01	3/4	3,850.36	3/4	4,147.98	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,207.52	1	3,538.86	1	3,856.79	1	4,153.96	1		1		1		1		1		1	
1/4	3,214.43	1/4	3,545.67	1/4	3,863.19	1/4	4,159.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.34	1/2	3,552.48	1/2	3,869.59	1/2	4,165.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,228.25	3/4	3,559.30	3/4	3,875.99	3/4	4,171.80	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,235.17	2	3,566.11	2	3,882.39	2	4,177.75	2		2		2		2		2		2	
1/4	3,242.08	1/4	3,572.89	1/4	3,888.76	1/4	4,183.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.99	1/2	3,579.67	1/2	3,895.12	1/2	4,189.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.90	3/4	3,586.44	3/4	3,901.49	3/4	4,195.49	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,262.81	3	3,593.22	3	3,907.85	3	4,201.40	3		3		3		3		3		3	
1/4	3,269.72	1/4	3,599.97	1/4	3,914.18	1/4	4,207.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,276.63	1/2	3,606.71	1/2	3,920.52	1/2	4,213.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,283.54	3/4	3,613.45	3/4	3,926.85	3/4	4,219.04	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,290.46	4	3,620.20	4	3,933.18	4	4,224.92	4		4		4		4		4		4	
1/4	3,297.37	1/4	3,626.91	1/4	3,939.48	1/4	4,231.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,304.28	1/2	3,633.62	1/2	3,945.77	1/2	4,237.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,311.19	3/4	3,640.33	3/4	3,952.07	3/4	4,244.02	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,318.10	5	3,647.04	5	3,958.37	5	4,250.38	5		5		5		5		5		5	
1/4	3,325.01	1/4	3,653.71	1/4	3,964.63	1/4	4,257.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.92	1/2	3,660.39	1/2	3,970.89	1/2	4,264.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,338.83	3/4	3,667.06	3/4	3,977.15	3/4	4,271.00	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,345.75	6	3,673.74	6	3,983.42	6	4,277.87	6		6		6		6		6		6	
1/4	3,352.66	1/4	3,680.38	1/4	3,989.64	1/4	4,284.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,359.57	1/2	3,687.02	1/2	3,995.87	1/2	4,291.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,366.48	3/4	3,693.66	3/4	4,002.10	3/4	4,298.48	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,373.39	7	3,700.30	7	4,008.33	7	4,305.35	7		7		7		7		7		7	
1/4	3,380.30	1/4	3,706.91	1/4	4,014.48	1/4	4,312.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,387.21	1/2	3,713.51	1/2	4,020.64	1/2	4,318.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,394.13	3/4	3,720.12	3/4	4,026.79	3/4	4,325.75	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,401.04	8	3,726.73	8	4,032.94	8	4,332.54	8		8		8		8		8		8	
1/4	3,407.95	1/4	3,733.30	1/4	4,039.06	1/4	4,338.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,414.86	1/2	3,739.87	1/2	4,045.18	1/2	4,344.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,421.77	3/4	3,746.44	3/4	4,051.30	3/4	4,351.05	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,428.68	9	3,753.01	9	4,057.42	9	4,357.23	9		9		9		9		9		9	
1/4	3,435.59	1/4	3,759.55	1/4	4,063.51	1/4	4,362.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,442.50	1/2	3,766.09	1/2	4,069.59	1/2	4,367.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,449.42	3/4	3,772.63	3/4	4,075.68	3/4	4,371.96	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,456.33	10	3,779.16	10	4,081.76	10		10		10		10		10		10		10	
1/4	3,463.23	1/4	3,785.67	1/4	4,087.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,470.14	1/2	3,792.17	1/2	4,093.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,477.04	3/4	3,798.67	3/4	4,099.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,483.95	11	3,805.18	11	4,105.96	11		11		11		11		11		11		11	
1/4	3,490.83	1/4	3,811.65	1/4	4,111.98	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,497.71	1/2	3,818.11	1/2	4,118.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,504.59	3/4	3,824.58	3/4	4,124.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 396"

2 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.83	0	395.96	0	773.21	0	1,155.78	0	1,543.32	0	1,930.86	0	2,318.40	0	2,705.95	0	3,093.49	0	3,481.02
1/4	24.60	1/4	404.03	1/4	780.96	1/4	1,163.85	1/4	1,551.39	1/4	1,938.94	1/4	2,326.48	1/4	2,714.02	1/4	3,101.56	1/4	3,489.09
1/2	30.36	1/2	412.10	1/2	788.71	1/2	1,171.93	1/2	1,559.47	1/2	1,947.01	1/2	2,334.55	1/2	2,722.09	1/2	3,109.64	1/2	3,497.17
3/4	36.13	3/4	420.18	3/4	796.46	3/4	1,180.00	3/4	1,567.54	3/4	1,955.08	3/4	2,342.63	3/4	2,730.17	3/4	3,117.71	3/4	3,505.24
1	41.89	1	428.25	1	804.22	1	1,188.07	1	1,575.62	1	1,963.16	1	2,350.70	1	2,738.24	1	3,125.78	1	3,513.31
1/4	49.68	1/4	436.32	1/4	811.98	1/4	1,196.15	1/4	1,583.69	1/4	1,971.23	1/4	2,358.77	1/4	2,746.32	1/4	3,133.86	1/4	3,521.38
1/2	57.46	1/2	444.39	1/2	819.74	1/2	1,204.22	1/2	1,591.76	1/2	1,979.31	1/2	2,366.85	1/2	2,754.39	1/2	3,141.93	1/2	3,529.46
3/4	65.25	3/4	452.47	3/4	827.50	3/4	1,212.29	3/4	1,599.84	3/4	1,987.38	3/4	2,374.92	3/4	2,762.46	3/4	3,150.01	3/4	3,537.53
2	73.03	2	460.54	2	835.27	2	1,220.37	2	1,607.91	2	1,995.45	2	2,383.00	2	2,770.54	2	3,158.08	2	3,545.60
1/4	81.11	1/4	468.61	1/4	843.04	1/4	1,228.44	1/4	1,615.98	1/4	2,003.53	1/4	2,391.07	1/4	2,778.61	1/4	3,166.15	1/4	3,553.67
1/2	89.18	1/2	476.69	1/2	850.80	1/2	1,236.52	1/2	1,624.06	1/2	2,011.60	1/2	2,399.14	1/2	2,786.69	1/2	3,174.23	1/2	3,561.74
3/4	97.25	3/4	484.76	3/4	858.57	3/4	1,244.59	3/4	1,632.13	3/4	2,019.67	3/4	2,407.22	3/4	2,794.76	3/4	3,182.30	3/4	3,569.82
3	105.32	3	492.83	3	866.34	3	1,252.66	3	1,640.21	3	2,027.75	3	2,415.29	3	2,802.83	3	3,190.38	3	3,577.89
1/4	113.40	1/4	500.91	1/4	874.11	1/4	1,260.74	1/4	1,648.28	1/4	2,035.82	1/4	2,423.36	1/4	2,810.91	1/4	3,198.45	1/4	3,585.96
1/2	121.47	1/2	508.98	1/2	881.88	1/2	1,268.81	1/2	1,656.35	1/2	2,043.90	1/2	2,431.44	1/2	2,818.98	1/2	3,206.52	1/2	3,594.03
3/4	129.54	3/4	517.05	3/4	889.65	3/4	1,276.88	3/4	1,664.43	3/4	2,051.97	3/4	2,439.51	3/4	2,827.05	3/4	3,214.60	3/4	3,602.11
4	137.62	4	525.13	4	897.42	4	1,284.96	4	1,672.50	4	2,060.04	4	2,447.59	4	2,835.13	4	3,222.67	4	3,610.18
1/4	145.69	1/4	532.89	1/4	905.49	1/4	1,293.03	1/4	1,680.57	1/4	2,068.12	1/4	2,455.66	1/4	2,843.20	1/4	3,230.74	1/4	3,618.25
1/2	153.76	1/2	540.65	1/2	913.56	1/2	1,301.11	1/2	1,688.65	1/2	2,076.19	1/2	2,463.73	1/2	2,851.28	1/2	3,238.82	1/2	3,626.32
3/4	161.84	3/4	548.41	3/4	921.64	3/4	1,309.18	3/4	1,696.72	3/4	2,084.26	3/4	2,471.81	3/4	2,859.35	3/4	3,246.89	3/4	3,634.40
5	169.91	5	556.17	5	929.71	5	1,317.25	5	1,704.80	5	2,092.34	5	2,479.88	5	2,867.42	5	3,254.97	5	3,642.47
1/4	177.98	1/4	563.93	1/4	937.78	1/4	1,325.33	1/4	1,712.87	1/4	2,100.41	1/4	2,487.95	1/4	2,875.50	1/4	3,263.04	1/4	3,650.54
1/2	186.06	1/2	571.68	1/2	945.86	1/2	1,333.40	1/2	1,720.94	1/2	2,108.49	1/2	2,496.03	1/2	2,883.57	1/2	3,271.11	1/2	3,658.61
3/4	194.13	3/4	579.43	3/4	953.93	3/4	1,341.47	3/4	1,729.02	3/4	2,116.56	3/4	2,504.10	3/4	2,891.64	3/4	3,279.19	3/4	3,666.69
6	202.20	6	587.18	6	962.01	6	1,349.55	6	1,737.09	6	2,124.63	6	2,512.18	6	2,899.72	6	3,287.26	6	3,674.76
1/4	210.28	1/4	594.94	1/4	970.08	1/4	1,357.62	1/4	1,745.16	1/4	2,132.71	1/4	2,520.25	1/4	2,907.79	1/4	3,295.33	1/4	3,682.83
1/2	218.35	1/2	602.69	1/2	978.15	1/2	1,365.70	1/2	1,753.24	1/2	2,140.78	1/2	2,528.32	1/2	2,915.87	1/2	3,303.41	1/2	3,690.90
3/4	226.42	3/4	610.44	3/4	986.23	3/4	1,373.77	3/4	1,761.31	3/4	2,148.85	3/4	2,536.40	3/4	2,923.94	3/4	3,311.48	3/4	3,698.98
7	234.49	7	618.19	7	994.30	7	1,381.84	7	1,769.39	7	2,156.93	7	2,544.47	7	2,932.01	7	3,319.56	7	3,707.09
1/4	242.57	1/4	625.95	1/4	1,002.38	1/4	1,389.92	1/4	1,777.46	1/4	2,165.00	1/4	2,552.54	1/4	2,940.09	1/4	3,327.63	1/4	3,715.12
1/2	250.64	1/2	633.70	1/2	1,010.45	1/2	1,397.99	1/2	1,785.53	1/2	2,173.08	1/2	2,560.62	1/2	2,948.16	1/2	3,335.70	1/2	3,723.19
3/4	258.71	3/4	641.45	3/4	1,018.52	3/4	1,406.07	3/4	1,793.61	3/4	2,181.15	3/4	2,568.69	3/4	2,956.23	3/4	3,343.78	3/4	3,731.27
8	266.79	8	649.20	8	1,026.60	8	1,414.14	8	1,801.68	8	2,189.22	8	2,576.77	8	2,964.31	8	3,351.85	8	3,739.34
1/4	274.86	1/4	656.95	1/4	1,034.67	1/4	1,422.21	1/4	1,809.76	1/4	2,197.30	1/4	2,584.84	1/4	2,972.38	1/4	3,359.92	1/4	3,747.41
1/2	282.93	1/2	664.70	1/2	1,042.74	1/2	1,430.29	1/2	1,817.83	1/2	2,205.37	1/2	2,592.91	1/2	2,980.46	1/2	3,368.00	1/2	3,755.48
3/4	291.01	3/4	672.45	3/4	1,050.82	3/4	1,438.36	3/4	1,825.90	3/4	2,213.45	3/4	2,600.99	3/4	2,988.53	3/4	3,376.07	3/4	3,763.55
9	299.08	9	680.20	9	1,058.89	9	1,446.43	9	1,833.98	9	2,221.52	9	2,609.06	9	2,996.60	9	3,384.15	9	3,771.63
1/4	307.15	1/4	687.94	1/4	1,066.97	1/4	1,454.51	1/4	1,842.05	1/4	2,229.59	1/4	2,617.14	1/4	3,004.68	1/4	3,392.22	1/4	3,779.70
1/2	315.23	1/2	695.69	1/2	1,075.04	1/2	1,462.58	1/2	1,850.12	1/2	2,237.67	1/2	2,625.21	1/2	3,012.75	1/2	3,400.29	1/2	3,787.77
3/4	323.30	3/4	703.44	3/4	1,083.11	3/4	1,470.66	3/4	1,858.20	3/4	2,245.74	3/4	2,633.28	3/4	3,020.83	3/4	3,408.37	3/4	3,795.84
10	331.37	10	711.19	10	1,091.19	10	1,478.73	10	1,866.27	10	2,253.81	10	2,641.36	10	3,028.90	10	3,416.44	10	3,803.92
1/4	339.44	1/4	718.94	1/4	1,099.26	1/4	1,486.80	1/4	1,874.35	1/4	2,261.89	1/4	2,649.43	1/4	3,036.97	1/4	3,424.51	1/4	3,811.99
1/2	347.52	1/2	726.69	1/2	1,107.33	1/2	1,494.88	1/2	1,882.42	1/2	2,269.96	1/2	2,657.50	1/2	3,045.05	1/2	3,432.59	1/2	3,820.06
3/4	355.59	3/4	734.44	3/4	1,115.41	3/4	1,502.95	3/4	1,890.49	3/4	2,278.04	3/4	2,665.58	3/4	3,053.12	3/4	3,440.66	3/4	3,828.13
11	363.66	11	742.20	11	1,123.48	11	1,511.02	11	1,898.57	11	2,286.11	11	2,673.65	11	3,061.19	11	3,448.73	11	3,836.21
1/4	371.74	1/4	749.95	1/4	1,131.56	1/4	1,519.10	1/4	1,906.64	1/4	2,294.18	1/4	2,681.73	1/4	3,069.27	1/4	3,456.80	1/4	3,844.28
1/2	379.81	1/2	757.70	1/2	1,139.63	1/2	1,527.17	1/2	1,914.71	1/2	2,302.26	1/2	2,689.80	1/2	3,077.34	1/2	3,464.88	1/2	3,852.35
3/4	387.88	3/4	765.45	3/4	1,147.70	3/4	1,535.25	3/4	1,922.79	3/4	2,310.33	3/4	2,697.87	3/4	3,085.42	3/4	3,472.95	3/4	3,860.42

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-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 396"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,868.50	0	4,255.80	0	4,629.07	0	4,978.25	0		0		0		0		0		0	
1/4	3,876.57	1/4	4,263.80	1/4	4,636.58	1/4	4,985.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,884.64	1/2	4,271.80	1/2	4,644.10	1/2	4,992.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,892.71	3/4	4,279.79	3/4	4,651.61	3/4	4,999.21	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,900.79	1	4,287.79	1	4,659.13	1	5,006.20	1		1		1		1		1		1	
1/4	3,908.86	1/4	4,295.75	1/4	4,666.60	1/4	5,013.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,916.93	1/2	4,303.70	1/2	4,674.08	1/2	5,020.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,925.00	3/4	4,311.66	3/4	4,681.55	3/4	5,027.04	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,933.08	2	4,319.62	2	4,689.03	2	5,033.98	2		2		2		2		2		2	
1/4	3,941.15	1/4	4,327.54	1/4	4,696.46	1/4	5,040.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,949.22	1/2	4,335.45	1/2	4,703.90	1/2	5,047.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,957.29	3/4	4,343.37	3/4	4,711.33	3/4	5,054.70	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,965.36	3	4,351.29	3	4,718.77	3	5,061.61	3		3		3		3		3		3	
1/4	3,973.44	1/4	4,359.16	1/4	4,726.16	1/4	5,068.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,981.51	1/2	4,367.04	1/2	4,733.56	1/2	5,075.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,989.58	3/4	4,374.92	3/4	4,740.95	3/4	5,082.20	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,997.65	4	4,382.79	4	4,748.35	4	5,089.07	4		4		4		4		4		4	
1/4	4,005.73	1/4	4,390.63	1/4	4,755.70	1/4	5,096.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,013.80	1/2	4,398.47	1/2	4,763.06	1/2	5,103.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,021.87	3/4	4,406.30	3/4	4,770.41	3/4	5,111.37	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,029.94	5	4,414.14	5	4,777.77	5	5,118.81	5		5		5		5		5		5	
1/4	4,038.02	1/4	4,421.94	1/4	4,785.08	1/4	5,126.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,046.09	1/2	4,429.73	1/2	4,792.40	1/2	5,134.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,054.16	3/4	4,437.53	3/4	4,799.71	3/4	5,142.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,062.23	6	4,445.33	6	4,807.02	6	5,150.91	6		6		6		6		6		6	
1/4	4,070.31	1/4	4,453.08	1/4	4,814.30	1/4	5,158.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,078.38	1/2	4,460.84	1/2	4,821.57	1/2	5,166.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,086.45	3/4	4,468.59	3/4	4,828.85	3/4	5,174.99	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,094.52	7	4,476.35	7	4,836.12	7	5,183.01	7		7		7		7		7		7	
1/4	4,102.60	1/4	4,484.07	1/4	4,843.31	1/4	5,190.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,110.67	1/2	4,491.78	1/2	4,850.50	1/2	5,198.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,118.74	3/4	4,499.50	3/4	4,857.68	3/4	5,206.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,126.81	8	4,507.22	8	4,864.87	8	5,214.77	8		8		8		8		8		8	
1/4	4,134.89	1/4	4,514.89	1/4	4,872.02	1/4	5,221.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,142.96	1/2	4,522.57	1/2	4,879.16	1/2	5,229.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,151.03	3/4	4,530.24	3/4	4,886.31	3/4	5,236.40	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,159.10	9	4,537.92	9	4,893.46	9	5,243.60	9		9		9		9		9		9	
1/4	4,167.17	1/4	4,545.56	1/4	4,900.56	1/4	5,249.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,175.25	1/2	4,553.19	1/2	4,907.67	1/2	5,255.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,183.32	3/4	4,560.83	3/4	4,914.78	3/4	5,260.82	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,191.39	10	4,568.46	10	4,921.88	10		10		10		10		10		10		10	
1/4	4,199.46	1/4	4,576.06	1/4	4,928.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,207.52	1/2	4,583.65	1/2	4,936.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,215.59	3/4	4,591.25	3/4	4,943.08	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,223.65	11	4,598.84	11	4,950.15	11		11		11		11		11		11		11	
1/4	4,231.69	1/4	4,606.40	1/4	4,957.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,239.73	1/2	4,613.96	1/2	4,964.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,247.76	3/4	4,621.51	3/4	4,971.23	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 396"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	18.84	0	396.22	0	783.68	0	1,171.44	0	1,559.24	0	1,947.04	0	2,334.85	0	2,722.65	0	3,110.45	0	3,498.24
1/4	24.61	1/4	404.30	1/4	791.75	1/4	1,179.52	1/4	1,567.32	1/4	1,955.12	1/4	2,342.92	1/4	2,730.73	1/4	3,118.53	1/4	3,506.32
1/2	30.38	1/2	412.38	1/2	799.82	1/2	1,187.60	1/2	1,575.40	1/2	1,963.20	1/2	2,351.00	1/2	2,738.81	1/2	3,126.61	1/2	3,514.40
3/4	36.15	3/4	420.46	3/4	807.89	3/4	1,195.68	3/4	1,583.48	3/4	1,971.28	3/4	2,359.08	3/4	2,746.88	3/4	3,134.69	3/4	3,522.47
1	41.92	1	428.54	1	815.96	1	1,203.76	1	1,591.56	1	1,979.36	1	2,367.16	1	2,754.96	1	3,142.77	1	3,530.55
1/4	49.71	1/4	436.61	1/4	824.04	1/4	1,211.84	1/4	1,599.64	1/4	1,987.44	1/4	2,375.24	1/4	2,763.04	1/4	3,150.84	1/4	3,538.63
1/2	57.50	1/2	444.69	1/2	832.11	1/2	1,219.92	1/2	1,607.72	1/2	1,995.52	1/2	2,383.32	1/2	2,771.12	1/2	3,158.92	1/2	3,546.71
3/4	65.29	3/4	452.77	3/4	840.19	3/4	1,228.00	3/4	1,615.80	3/4	2,003.60	3/4	2,391.40	3/4	2,779.20	3/4	3,167.00	3/4	3,554.79
2	73.08	2	460.85	2	848.27	2	1,236.07	2	1,623.88	2	2,011.68	2	2,399.48	2	2,787.28	2	3,175.08	2	3,562.86
1/4	81.16	1/4	468.93	1/4	856.35	1/4	1,244.15	1/4	1,631.95	1/4	2,019.76	1/4	2,407.56	1/4	2,795.36	1/4	3,183.16	1/4	3,570.94
1/2	89.24	1/2	477.01	1/2	864.43	1/2	1,252.23	1/2	1,640.03	1/2	2,027.84	1/2	2,415.64	1/2	2,803.44	1/2	3,191.24	1/2	3,579.02
3/4	97.32	3/4	485.08	3/4	872.51	3/4	1,260.31	3/4	1,648.11	3/4	2,035.91	3/4	2,423.72	3/4	2,811.52	3/4	3,199.32	3/4	3,587.10
3	105.40	3	493.16	3	880.59	3	1,268.39	3	1,656.19	3	2,043.99	3	2,431.80	3	2,819.60	3	3,207.40	3	3,595.17
1/4	113.47	1/4	501.24	1/4	888.67	1/4	1,276.47	1/4	1,664.27	1/4	2,052.07	1/4	2,439.88	1/4	2,827.68	1/4	3,215.48	1/4	3,603.25
1/2	121.55	1/2	509.32	1/2	896.75	1/2	1,284.55	1/2	1,672.35	1/2	2,060.15	1/2	2,447.95	1/2	2,835.76	1/2	3,223.56	1/2	3,611.33
3/4	129.63	3/4	517.40	3/4	904.83	3/4	1,292.63	3/4	1,680.43	3/4	2,068.23	3/4	2,456.03	3/4	2,843.84	3/4	3,231.64	3/4	3,619.41
4	137.71	4	525.48	4	912.91	4	1,300.71	4	1,688.51	4	2,076.31	4	2,464.11	4	2,851.91	4	3,239.72	4	3,627.49
1/4	145.79	1/4	533.56	1/4	920.99	1/4	1,308.79	1/4	1,696.59	1/4	2,084.39	1/4	2,472.19	1/4	2,859.99	1/4	3,247.80	1/4	3,635.56
1/2	153.87	1/2	541.63	1/2	929.06	1/2	1,316.87	1/2	1,704.67	1/2	2,092.47	1/2	2,480.27	1/2	2,868.07	1/2	3,255.87	1/2	3,643.64
3/4	161.94	3/4	549.71	3/4	937.14	3/4	1,324.95	3/4	1,712.75	3/4	2,100.55	3/4	2,488.35	3/4	2,876.15	3/4	3,263.95	3/4	3,651.72
5	170.02	5	557.79	5	945.22	5	1,333.02	5	1,720.83	5	2,108.63	5	2,496.43	5	2,884.23	5	3,272.03	5	3,659.80
1/4	178.10	1/4	565.86	1/4	953.30	1/4	1,341.10	1/4	1,728.91	1/4	2,116.71	1/4	2,504.51	1/4	2,892.31	1/4	3,280.11	1/4	3,667.88
1/2	186.18	1/2	573.93	1/2	961.38	1/2	1,349.18	1/2	1,736.98	1/2	2,124.79	1/2	2,512.59	1/2	2,900.39	1/2	3,288.19	1/2	3,675.95
3/4	194.26	3/4	582.00	3/4	969.46	3/4	1,357.26	3/4	1,745.06	3/4	2,132.87	3/4	2,520.67	3/4	2,908.47	3/4	3,296.27	3/4	3,684.03
6	202.34	6	590.07	6	977.54	6	1,365.34	6	1,753.14	6	2,140.94	6	2,528.75	6	2,916.55	6	3,304.35	6	3,692.11
1/4	210.42	1/4	598.14	1/4	985.62	1/4	1,373.42	1/4	1,761.22	1/4	2,149.02	1/4	2,536.83	1/4	2,924.63	1/4	3,312.43	1/4	3,700.19
1/2	218.49	1/2	606.20	1/2	993.70	1/2	1,381.50	1/2	1,769.30	1/2	2,157.10	1/2	2,544.90	1/2	2,932.71	1/2	3,320.51	1/2	3,708.27
3/4	226.57	3/4	614.27	3/4	1,001.78	3/4	1,389.58	3/4	1,777.38	3/4	2,165.18	3/4	2,552.98	3/4	2,940.79	3/4	3,328.59	3/4	3,716.34
7	234.65	7	622.34	7	1,009.86	7	1,397.66	7	1,785.46	7	2,173.26	7	2,561.06	7	2,948.86	7	3,336.67	7	3,724.42
1/4	242.73	1/4	630.41	1/4	1,017.94	1/4	1,405.74	1/4	1,793.54	1/4	2,181.34	1/4	2,569.14	1/4	2,956.94	1/4	3,344.75	1/4	3,732.50
1/2	250.81	1/2	638.48	1/2	1,026.02	1/2	1,413.82	1/2	1,801.62	1/2	2,189.42	1/2	2,577.22	1/2	2,965.02	1/2	3,352.82	1/2	3,740.58
3/4	258.89	3/4	646.55	3/4	1,034.09	3/4	1,421.90	3/4	1,809.70	3/4	2,197.50	3/4	2,585.30	3/4	2,973.10	3/4	3,360.90	3/4	3,748.65
8	266.97	8	654.62	8	1,042.17	8	1,429.98	8	1,817.78	8	2,205.58	8	2,593.38	8	2,981.18	8	3,368.98	8	3,756.73
1/4	275.04	1/4	662.68	1/4	1,050.25	1/4	1,438.05	1/4	1,825.86	1/4	2,213.66	1/4	2,601.46	1/4	2,989.26	1/4	3,377.06	1/4	3,764.81
1/2	283.12	1/2	670.75	1/2	1,058.33	1/2	1,446.13	1/2	1,833.93	1/2	2,221.74	1/2	2,609.54	1/2	2,997.34	1/2	3,385.14	1/2	3,772.89
3/4	291.20	3/4	678.81	3/4	1,066.41	3/4	1,454.21	3/4	1,842.01	3/4	2,229.82	3/4	2,617.62	3/4	3,005.42	3/4	3,393.22	3/4	3,780.97
9	299.28	9	686.87	9	1,074.49	9	1,462.29	9	1,850.09	9	2,237.89	9	2,625.70	9	3,013.50	9	3,401.30	9	3,789.04
1/4	307.36	1/4	694.94	1/4	1,082.57	1/4	1,470.37	1/4	1,858.17	1/4	2,245.97	1/4	2,633.78	1/4	3,021.58	1/4	3,409.38	1/4	3,797.12
1/2	315.44	1/2	703:00	1/2	1,090.65	1/2	1,478.45	1/2	1,866.25	1/2	2,254.05	1/2	2,641.86	1/2	3,029.66	1/2	3,417.46	1/2	3,805.20
3/4	323.51	3/4	711.07	3/4	1,098.73	3/4	1,486.53	3/4	1,874.33	3/4	2,262.13	3/4	2,649.93	3/4	3,037.74	3/4	3,425.54	3/4	3,813.28
10	331.59	10	719.13	10	1,106.81	10	1,494.61	10	1,882.41	10	2,270.21	10	2,658.01	10	3,045.82	10	3,433.62	10	3,821.36
1/4	339.67	1/4	727.20	1/4	1,114.89	1/4	1,502.69	1/4	1,890.49	1/4	2,278.29	1/4	2,666.09	1/4	3,053.89	1/4	3,441.69	1/4	3,829.43
1/2	347.75	1/2	735.27	1/2	1,122.97	1/2	1,510.77	1/2	1,898.57	1/2	2,286.37	1/2	2,674.17	1/2	3,061.97	1/2	3,449.77	1/2	3,837.51
3/4	355.83	3/4	743.34	3/4	1,131.04	3/4	1,518.85	3/4	1,906.65	3/4	2,294.45	3/4	2,682.25	3/4	3,070.05	3/4	3,457.85	3/4	3,845.59
11	363.91	11	751.41	11	1,139.12	11	1,526.93	11	1,914.73	11	2,302.53	11	2,690.33	11	3,078.13	11	3,465.93	11	3,853.67
1/4	371.99	1/4	759.47	1/4	1,147.20	1/4	1,535.00	1/4	1,922.81	1/4	2,310.61	1/4	2,698.41	1/4	3,086.21	1/4	3,474.01	1/4	3,861.75
1/2	380.06	1/2	767.54	1/2	1,155.28	1/2	1,543.08	1/2	1,930.89	1/2	2,318.69	1/2	2,706.49	1/2	3,094.29	1/2	3,482.08	1/2	3,869.82
3/4	388.14	3/4	775.61	3/4	1,163.36	3/4	1,551.16	3/4	1,938.96	3/4	2,326.77	3/4	2,714.57	3/4	3,102.37	3/4	3,490.16	3/4	3,877.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-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 396"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,885.98	0	4,273.55	0	4,647.06	0	4,996.49	0		0		0		0		0		0	
1/4	3,894.06	1/4	4,281.55	1/4	4,654.58	1/4	5,003.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,902.13	1/2	4,289.55	1/2	4,662.10	1/2	5,010.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,910.21	3/4	4,297.55	3/4	4,669.62	3/4	5,017.46	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,918.29	1	4,305.56	1	4,677.14	1	5,024.45	1		1		1		1		1		1	
1/4	3,926.37	1/4	4,313.52	1/4	4,684.62	1/4	5,031.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,934.45	1/2	4,321.48	1/2	4,692.11	1/2	5,038.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,942.52	3/4	4,329.44	3/4	4,699.59	3/4	5,045.30	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,950.60	2	4,337.41	2	4,707.07	2	5,052.25	2		2		2		2		2		2	
1/4	3,958.68	1/4	4,345.33	1/4	4,714.51	1/4	5,059.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,966.76	1/2	4,353.25	1/2	4,721.95	1/2	5,066.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,974.84	3/4	4,361.17	3/4	4,729.39	3/4	5,072.98	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,982.91	3	4,369.10	3	4,736.83	3	5,079.89	3		3		3		3		3		3	
1/4	3,990.99	1/4	4,376.98	1/4	4,744.22	1/4	5,086.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,999.07	1/2	4,384.86	1/2	4,751.62	1/2	5,093.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,007.15	3/4	4,392.74	3/4	4,759.02	3/4	5,100.50	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,015.23	4	4,400.62	4	4,766.42	4	5,107.37	4		4		4		4		4		4	
1/4	4,023.30	1/4	4,408.47	1/4	4,773.78	1/4	5,114.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,031.38	1/2	4,416.31	1/2	4,781.14	1/2	5,122.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,039.46	3/4	4,424.15	3/4	4,788.50	3/4	5,129.70	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,047.54	5	4,431.99	5	4,795.86	5	5,137.14	5		5		5		5		5		5	
1/4	4,055.61	1/4	4,439.79	1/4	4,803.18	1/4	5,145.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,063.69	1/2	4,447.60	1/2	4,810.50	1/2	5,153.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,071.77	3/4	4,455.40	3/4	4,817.82	3/4	5,161.23	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,079.85	6	4,463.20	6	4,825.14	6	5,169.26	6		6		6		6		6		6	
1/4	4,087.93	1/4	4,470.96	1/4	4,832.42	1/4	5,177.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,096.00	1/2	4,478.72	1/2	4,839.70	1/2	5,185.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,104.08	3/4	4,486.48	3/4	4,846.98	3/4	5,193.35	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,112.16	7	4,494.25	7	4,854.26	7	5,201.38	7		7		7		7		7		7	
1/4	4,120.24	1/4	4,501.97	1/4	4,861.45	1/4	5,209.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,128.32	1/2	4,509.69	1/2	4,868.64	1/2	5,217.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,136.39	3/4	4,517.41	3/4	4,875.83	3/4	5,225.22	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,144.47	8	4,525.13	8	4,883.02	8	5,233.16	8		8		8		8		8		8	
1/4	4,152.55	1/4	4,532.81	1/4	4,890.18	1/4	5,240.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,160.63	1/2	4,540.49	1/2	4,897.33	1/2	5,247.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,168.71	3/4	4,548.17	3/4	4,904.48	3/4	5,254.80	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,176.78	9	4,555.85	9	4,911.63	9	5,262.01	9		9		9		9		9		9	
1/4	4,184.86	1/4	4,563.50	1/4	4,918.74	1/4	5,267.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,192.94	1/2	4,571.14	1/2	4,925.85	1/2	5,273.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,201.02	3/4	4,578.78	3/4	4,932.96	3/4	5,279.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,209.10	10	4,586.42	10	4,940.08	10		10		10		10		10		10		10	
1/4	4,217.16	1/4	4,594.02	1/4	4,947.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,225.23	1/2	4,601.62	1/2	4,954.22	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,233.30	3/4	4,609.22	3/4	4,961.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,241.37	11	4,616.82	11	4,968.36	11		11		11		11		11		11		11	
1/4	4,249.42	1/4	4,624.38	1/4	4,975.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,257.46	1/2	4,631.94	1/2	4,982.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,265.50	3/4	4,639.50	3/4	4,989.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 396"

3 PORT

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	17.55	0	368.57	0	719.95	0	1,075.67	0	1,436.14	0	1,796.42	0	2,156.18	0	2,516.82	0	2,877.45	0	3,237.73
1/4	22.92	1/4	376.08	1/4	727.17	1/4	1,083.18	1/4	1,443.65	1/4	1,803.91	1/4	2,163.70	1/4	2,524.33	1/4	2,884.96	1/4	3,245.24
1/2	28.29	1/2	383.59	1/2	734.40	1/2	1,090.69	1/2	1,451.16	1/2	1,811.40	1/2	2,171.21	1/2	2,531.84	1/2	2,892.46	1/2	3,252.76
3/4	33.65	3/4	391.11	3/4	741.62	3/4	1,098.20	3/4	1,458.67	3/4	1,818.89	3/4	2,178.72	3/4	2,539.36	3/4	2,899.97	3/4	3,260.27
1	39.02	1	398.62	1	748.84	1	1,105.71	1	1,466.18	1	1,826.38	1	2,186.24	1	2,546.87	1	2,907.47	1	3,267.78
1/4	46.27	1/4	406.14	1/4	756.08	1/4	1,113.22	1/4	1,473.69	1/4	1,833.87	1/4	2,193.75	1/4	2,554.38	1/4	2,914.98	1/4	3,275.29
1/2	53.51	1/2	413.65	1/2	763.31	1/2	1,120.73	1/2	1,481.20	1/2	1,841.36	1/2	2,201.26	1/2	2,561.90	1/2	2,922.49	1/2	3,282.80
3/4	60.76	3/4	421.16	3/4	770.54	3/4	1,128.24	3/4	1,488.71	3/4	1,848.85	3/4	2,208.78	3/4	2,569.41	3/4	2,929.99	3/4	3,290.32
2	68.00	2	428.68	2	777.78	2	1,135.75	2	1,496.22	2	1,856.34	2	2,216.29	2	2,576.92	2	2,937.50	2	3,297.83
1/4	75.52	1/4	436.19	1/4	785.00	1/4	1,143.26	1/4	1,503.73	1/4	1,863.83	1/4	2,223.80	1/4	2,584.44	1/4	2,945.00	1/4	3,305.34
1/2	83.03	1/2	443.71	1/2	792.23	1/2	1,150.77	1/2	1,511.24	1/2	1,871.32	1/2	2,231.32	1/2	2,591.95	1/2	2,952.51	1/2	3,312.85
3/4	90.54	3/4	451.22	3/4	799.45	3/4	1,158.28	3/4	1,518.75	3/4	1,878.81	3/4	2,238.83	3/4	2,599.46	3/4	2,960.02	3/4	3,320.37
3	98.06	3	458.74	3	806.67	3	1,165.79	3	1,526.26	3	1,886.30	3	2,246.34	3	2,606.98	3	2,967.52	3	3,327.88
1/4	105.57	1/4	466.25	1/4	813.90	1/4	1,173.30	1/4	1,533.77	1/4	1,893.79	1/4	2,253.86	1/4	2,614.49	1/4	2,975.03	1/4	3,335.39
1/2	113.09	1/2	473.76	1/2	821.12	1/2	1,180.81	1/2	1,541.28	1/2	1,901.29	1/2	2,261.37	1/2	2,622.00	1/2	2,982.53	1/2	3,342.90
3/4	120.60	3/4	481.28	3/4	828.34	3/4	1,188.32	3/4	1,548.79	3/4	1,908.78	3/4	2,268.88	3/4	2,629.51	3/4	2,990.04	3/4	3,350.42
4	128.12	4	488.79	4	835.57	4	1,195.83	4	1,556.30	4	1,916.27	4	2,276.39	4	2,637.03	4	2,997.55	4	3,357.93
1/4	135.63	1/4	496.02	1/4	843.07	1/4	1,203.34	1/4	1,563.81	1/4	1,923.76	1/4	2,283.91	1/4	2,644.54	1/4	3,005.05	1/4	3,365.44
1/2	143.14	1/2	503.26	1/2	850.57	1/2	1,210.85	1/2	1,571.32	1/2	1,931.25	1/2	2,291.42	1/2	2,652.05	1/2	3,012.56	1/2	3,372.95
3/4	150.66	3/4	510.49	3/4	858.07	3/4	1,218.36	3/4	1,578.83	3/4	1,938.74	3/4	2,298.93	3/4	2,659.57	3/4	3,020.06	3/4	3,380.47
5	158.17	5	517.72	5	865.57	5	1,225.87	5	1,586.34	5	1,946.23	5	2,306.45	5	2,667.08	5	3,027.57	5	3,387.98
1/4	165.69	1/4	524.95	1/4	873.07	1/4	1,233.38	1/4	1,593.85	1/4	1,953.72	1/4	2,313.96	1/4	2,674.59	1/4	3,035.08	1/4	3,394.10
1/2	173.20	1/2	532.17	1/2	880.57	1/2	1,240.89	1/2	1,601.36	1/2	1,961.21	1/2	2,321.47	1/2	2,682.11	1/2	3,042.58	1/2	3,400.23
3/4	180.71	3/4	539.39	3/4	888.07	3/4	1,248.40	3/4	1,608.87	3/4	1,968.70	3/4	2,328.99	3/4	2,689.62	3/4	3,050.09	3/4	3,406.35
6	188.23	6	546.62	6	895.57	6	1,255.91	6	1,616.38	6	1,976.19	6	2,336.50	6	2,697.13	6	3,057.59	6	3,412.48
1/4	195.74	1/4	553.84	1/4	903.07	1/4	1,263.41	1/4	1,623.89	1/4	1,983.68	1/4	2,344.01	1/4	2,704.65	1/4	3,065.10	1/4	3,418.60
1/2	203.26	1/2	561.06	1/2	910.58	1/2	1,270.92	1/2	1,631.40	1/2	1,991.17	1/2	2,351.53	1/2	2,712.16	1/2	3,072.61	1/2	3,424.72
3/4	210.77	3/4	568.29	3/4	918.08	3/4	1,278.43	3/4	1,638.91	3/4	1,998.66	3/4	2,359.04	3/4	2,719.67	3/4	3,080.11	3/4	3,430.85
7	218.28	7	575.51	7	925.58	7	1,285.94	7	1,646.42	7	2,006.15	7	2,366.55	7	2,727.19	7	3,087.62	7	3,436.97
1/4	225.80	1/4	582.74	1/4	933.08	1/4	1,293.45	1/4	1,653.93	1/4	2,013.64	1/4	2,374.07	1/4	2,734.70	1/4	3,095.12	1/4	3,443.10
1/2	233.31	1/2	589.96	1/2	940.58	1/2	1,300.96	1/2	1,661.44	1/2	2,021.13	1/2	2,381.58	1/2	2,742.21	1/2	3,102.63	1/2	3,449.22
3/4	240.83	3/4	597.18	3/4	948.08	3/4	1,308.47	3/4	1,668.95	3/4	2,028.62	3/4	2,389.09	3/4	2,749.73	3/4	3,110.14	3/4	3,455.35
8	248.34	8	604.41	8	955.58	8	1,315.98	8	1,676.46	8	2,036.11	8	2,396.61	8	2,757.24	8	3,117.64	8	3,461.47
1/4	255.85	1/4	611.63	1/4	963.08	1/4	1,323.49	1/4	1,683.97	1/4	2,043.60	1/4	2,404.12	1/4	2,764.75	1/4	3,125.15	1/4	3,467.60
1/2	263.37	1/2	618.84	1/2	970.58	1/2	1,331.00	1/2	1,691.48	1/2	2,051.09	1/2	2,411.63	1/2	2,772.27	1/2	3,132.65	1/2	3,473.72
3/4	270.88	3/4	626.06	3/4	978.08	3/4	1,338.51	3/4	1,698.99	3/4	2,058.58	3/4	2,419.15	3/4	2,779.78	3/4	3,140.16	3/4	3,479.84
9	278.40	9	633.28	9	985.58	9	1,346.02	9	1,706.50	9	2,066.07	9	2,426.66	9	2,787.29	9	3,147.67	9	3,485.97
1/4	285.91	1/4	640.50	1/4	993.09	1/4	1,353.53	1/4	1,714.00	1/4	2,073.57	1/4	2,434.17	1/4	2,794.81	1/4	3,155.17	1/4	3,492.09
1/2	293.43	1/2	647.72	1/2	1,000.59	1/2	1,361.04	1/2	1,721.50	1/2	2,081.07	1/2	2,441.69	1/2	2,802.32	1/2	3,162.68	1/2	3,498.22
3/4	300.94	3/4	654.94	3/4	1,008.09	3/4	1,368.55	3/4	1,729.00	3/4	2,088.58	3/4	2,449.20	3/4	2,809.83	3/4	3,170.18	3/4	3,504.34
10	308.45	10	662.16	10	1,015.59	10	1,376.06	10	1,736.50	10	2,096.08	10	2,456.71	10	2,817.34	10	3,177.69	10	3,510.47
1/4	315.97	1/4	669.38	1/4	1,023.10	1/4	1,383.57	1/4	1,743.99	1/4	2,103.59	1/4	2,464.22	1/4	2,824.86	1/4	3,185.20	1/4	3,516.59
1/2	323.48	1/2	676.61	1/2	1,030.61	1/2	1,391.08	1/2	1,751.48	1/2	2,111.10	1/2	2,471.74	1/2	2,832.37	1/2	3,192.70	1/2	3,522.72
3/4	331.00	3/4	683.83	3/4	1,038.12	3/4	1,398.59	3/4	1,758.97	3/4	2,118.62	3/4	2,479.25	3/4	2,839.88	3/4	3,200.21	3/4	3,528.84
11	338.51	11	691.05	11	1,045.63	11	1,406.10	11	1,766.46	11	2,126.13	11	2,486.76	11	2,847.40	11	3,207.71	11	3,534.96
1/4	346.02	1/4	698.28	1/4	1,053.14	1/4	1,413.61	1/4	1,773.95	1/4	2,133.64	1/4	2,494.28	1/4	2,854.91	1/4	3,215.22	1/4	3,541.09
1/2	353.54	1/2	705.50	1/2	1,060.65	1/2	1,421.12	1/2	1,781.44	1/2	2,141.16	1/2	2,501.79	1/2	2,862.42	1/2	3,222.72	1/2	3,547.21
3/4	361.05	3/4	712.72	3/4	1,068.16	3/4	1,428.63	3/4	1,788.93	3/4	2,148.67	3/4	2,509.30	3/4	2,869.94	3/4	3,230.23	3/4	3,553.34

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 INNAGE GAUGES TAKEN TO TOP OF 2" "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 396"

3 PORT
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	3,559.46	0	3,853.28	0	4,134.03	0	4,392.52	0		0		0		0		0		0	
1/4	3,565.59	1/4	3,859.33	1/4	4,139.63	1/4	4,397.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,571.71	1/2	3,865.39	1/2	4,145.24	1/2	4,402.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,577.83	3/4	3,871.44	3/4	4,150.84	3/4	4,407.89	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,583.96	1	3,877.50	1	4,156.45	1	4,413.01	1		1		1		1		1		1	
1/4	3,590.08	1/4	3,883.51	1/4	4,162.02	1/4	4,418.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,596.21	1/2	3,889.53	1/2	4,167.59	1/2	4,423.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,602.33	3/4	3,895.55	3/4	4,173.16	3/4	4,428.26	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,608.46	2	3,901.56	2	4,178.72	2	4,433.34	2		2		2		2		2		2	
1/4	3,614.58	1/4	3,907.54	1/4	4,184.26	1/4	4,438.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,620.71	1/2	3,913.52	1/2	4,189.79	1/2	4,443.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,626.83	3/4	3,919.50	3/4	4,195.32	3/4	4,448.48	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,632.95	3	3,925.48	3	4,200.85	3	4,453.53	3		3		3		3		3		3	
1/4	3,639.08	1/4	3,931.43	1/4	4,206.34	1/4	4,458.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,645.20	1/2	3,937.37	1/2	4,211.84	1/2	4,463.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,651.33	3/4	3,943.31	3/4	4,217.33	3/4	4,468.56	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,657.45	4	3,949.25	4	4,222.83	4	4,473.57	4		4		4		4		4		4	
1/4	3,663.58	1/4	3,955.16	1/4	4,228.28	1/4	4,479.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,669.70	1/2	3,961.06	1/2	4,233.74	1/2	4,484.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,675.83	3/4	3,966.97	3/4	4,239.19	3/4	4,490.19	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,681.95	5	3,972.87	5	4,244.65	5	4,495.72	5		5		5		5		5		5	
1/4	3,688.07	1/4	3,978.74	1/4	4,250.07	1/4	4,501.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,694.20	1/2	3,984.61	1/2	4,255.49	1/2	4,507.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.32	3/4	3,990.48	3/4	4,260.91	3/4	4,513.99	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,706.45	6	3,996.34	6	4,266.33	6	4,520.08	6		6		6		6		6		6	
1/4	3,712.57	1/4	4,002.17	1/4	4,271.71	1/4	4,526.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,718.70	1/2	4,008.00	1/2	4,277.09	1/2	4,532.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.82	3/4	4,013.83	3/4	4,282.47	3/4	4,538.34	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,730.94	7	4,019.66	7	4,287.85	7	4,544.43	7		7		7		7		7		7	
1/4	3,737.07	1/4	4,025.46	1/4	4,293.16	1/4	4,551.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,743.19	1/2	4,031.25	1/2	4,298.47	1/2	4,559.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,749.32	3/4	4,037.04	3/4	4,303.78	3/4	4,566.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,755.44	8	4,042.83	8	4,309.09	8	4,573.99	8		8		8		8		8		8	
1/4	3,761.57	1/4	4,048.59	1/4	4,314.36	1/4	4,580.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,767.69	1/2	4,054.35	1/2	4,319.63	1/2	4,587.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.82	3/4	4,060.10	3/4	4,324.90	3/4	4,594.11	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,779.94	9	4,065.86	9	4,330.17	9	4,600.82	9		9		9		9		9		9	
1/4	3,786.06	1/4	4,071.57	1/4	4,335.40	1/4	4,606.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.19	1/2	4,077.29	1/2	4,340.64	1/2	4,611.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.31	3/4	4,083.01	3/4	4,345.87	3/4	4,616.84	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,804.44	10	4,088.73	10	4,351.10	10		10		10		10		10		10		10	
1/4	3,810.56	1/4	4,094.41	1/4	4,356.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,816.67	1/2	4,100.09	1/2	4,361.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,822.79	3/4	4,105.77	3/4	4,366.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,828.91	11	4,111.45	11	4,371.89	11		11		11		11		11		11		11	
1/4	3,835.00	1/4	4,117.10	1/4	4,377.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.09	1/2	4,122.74	1/2	4,382.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,847.19	3/4	4,128.38	3/4	4,387.36	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 396"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	17.54	0	367.83	0	720.23	0	1,076.43	0	1,436.20	0	1,795.24	0	2,152.25	0	2,511.89	0	2,871.72	0	3,231.22
1/4	22.91	1/4	375.33	1/4	727.50	1/4	1,083.92	1/4	1,443.69	1/4	1,802.66	1/4	2,159.75	1/4	2,519.38	1/4	2,879.21	1/4	3,238.72
1/2	28.27	1/2	382.83	1/2	734.76	1/2	1,091.42	1/2	1,451.19	1/2	1,810.08	1/2	2,167.25	1/2	2,526.87	1/2	2,886.69	1/2	3,246.21
3/4	33.63	3/4	390.33	3/4	742.03	3/4	1,098.91	3/4	1,458.69	3/4	1,817.50	3/4	2,174.75	3/4	2,534.35	3/4	2,894.18	3/4	3,253.71
1	39.00	1	397.83	1	749.29	1	1,106.41	1	1,466.18	1	1,824.92	1	2,182.25	1	2,541.84	1	2,901.67	1	3,261.21
1/4	46.23	1/4	405.32	1/4	756.56	1/4	1,113.90	1/4	1,473.68	1/4	1,832.35	1/4	2,189.74	1/4	2,549.34	1/4	2,909.16	1/4	3,268.70
1/2	53.46	1/2	412.82	1/2	763.84	1/2	1,121.40	1/2	1,481.17	1/2	1,839.77	1/2	2,197.24	1/2	2,556.84	1/2	2,916.65	1/2	3,276.20
3/4	60.69	3/4	420.32	3/4	771.11	3/4	1,128.89	3/4	1,488.67	3/4	1,847.19	3/4	2,204.74	3/4	2,564.33	3/4	2,924.14	3/4	3,283.69
2	67.91	2	427.82	2	778.38	2	1,136.39	2	1,496.16	2	1,854.61	2	2,212.24	2	2,571.83	2	2,931.63	2	3,291.19
1/4	75.41	1/4	435.32	1/4	785.66	1/4	1,143.88	1/4	1,503.66	1/4	1,862.03	1/4	2,219.74	1/4	2,579.33	1/4	2,939.12	1/4	3,298.69
1/2	82.91	1/2	442.81	1/2	792.93	1/2	1,151.38	1/2	1,511.15	1/2	1,869.46	1/2	2,227.24	1/2	2,586.83	1/2	2,946.61	1/2	3,306.18
3/4	90.41	3/4	450.31	3/4	800.21	3/4	1,158.87	3/4	1,518.65	3/4	1,876.88	3/4	2,234.74	3/4	2,594.32	3/4	2,954.10	3/4	3,313.68
3	97.91	3	457.81	3	807.48	3	1,166.37	3	1,526.14	3	1,884.30	3	2,242.23	3	2,601.82	3	2,961.59	3	3,321.18
1/4	105.40	1/4	465.31	1/4	814.75	1/4	1,173.86	1/4	1,533.64	1/4	1,891.72	1/4	2,249.73	1/4	2,609.32	1/4	2,969.08	1/4	3,328.67
1/2	112.90	1/2	472.81	1/2	822.03	1/2	1,181.36	1/2	1,541.13	1/2	1,899.14	1/2	2,257.23	1/2	2,616.81	1/2	2,976.57	1/2	3,336.17
3/4	120.40	3/4	480.30	3/4	829.30	3/4	1,188.85	3/4	1,548.63	3/4	1,906.56	3/4	2,264.73	3/4	2,624.31	3/4	2,984.06	3/4	3,343.67
4	127.90	4	487.80	4	836.58	4	1,196.35	4	1,556.12	4	1,913.99	4	2,272.23	4	2,631.81	4	2,991.55	4	3,351.16
1/4	135.40	1/4	495.08	1/4	844.07	1/4	1,203.85	1/4	1,563.62	1/4	1,921.41	1/4	2,279.73	1/4	2,639.31	1/4	2,999.04	1/4	3,358.66
1/2	142.89	1/2	502.35	1/2	851.57	1/2	1,211.34	1/2	1,571.12	1/2	1,928.83	1/2	2,287.23	1/2	2,646.80	1/2	3,006.53	1/2	3,366.15
3/4	150.39	3/4	509.62	3/4	859.06	3/4	1,218.84	3/4	1,578.61	3/4	1,936.25	3/4	2,294.73	3/4	2,654.30	3/4	3,014.02	3/4	3,373.65
5	157.89	5	516.89	5	866.56	5	1,226.33	5	1,586.11	5	1,943.67	5	2,302.22	5	2,661.80	5	3,021.51	5	3,381.15
1/4	165.39	1/4	524.16	1/4	874.05	1/4	1,233.83	1/4	1,593.60	1/4	1,951.09	1/4	2,309.71	1/4	2,669.29	1/4	3,029.00	1/4	3,387.27
1/2	172.89	1/2	531.42	1/2	881.55	1/2	1,241.32	1/2	1,601.10	1/2	1,958.52	1/2	2,317.20	1/2	2,676.79	1/2	3,036.49	1/2	3,393.39
3/4	180.38	3/4	538.68	3/4	889.04	3/4	1,248.82	3/4	1,608.59	3/4	1,965.94	3/4	2,324.69	3/4	2,684.29	3/4	3,043.98	3/4	3,399.51
6	187.88	6	545.95	6	896.54	6	1,256.31	6	1,616.09	6	1,973.36	6	2,332.18	6	2,691.78	6	3,051.47	6	3,405.63
1/4	195.38	1/4	553.21	1/4	904.03	1/4	1,263.81	1/4	1,623.58	1/4	1,980.78	1/4	2,339.66	1/4	2,699.28	1/4	3,058.96	1/4	3,411.75
1/2	202.88	1/2	560.47	1/2	911.53	1/2	1,271.30	1/2	1,631.08	1/2	1,988.20	1/2	2,347.15	1/2	2,706.78	1/2	3,066.45	1/2	3,417.87
3/4	210.38	3/4	567.74	3/4	919.02	3/4	1,278.80	3/4	1,638.57	3/4	1,995.62	3/4	2,354.64	3/4	2,714.28	3/4	3,073.94	3/4	3,424.00
7	217.87	7	575.00	7	926.52	7	1,286.29	7	1,646.07	7	2,003.05	7	2,362.13	7	2,721.77	7	3,081.43	7	3,430.12
1/4	225.37	1/4	582.26	1/4	934.01	1/4	1,293.79	1/4	1,653.56	1/4	2,010.47	1/4	2,369.62	1/4	2,729.27	1/4	3,088.92	1/4	3,436.24
1/2	232.87	1/2	589.53	1/2	941.51	1/2	1,301.28	1/2	1,661.06	1/2	2,017.89	1/2	2,377.10	1/2	2,736.77	1/2	3,096.41	1/2	3,442.36
3/4	240.37	3/4	596.79	3/4	949.01	3/4	1,308.78	3/4	1,668.55	3/4	2,025.31	3/4	2,384.59	3/4	2,744.26	3/4	3,103.90	3/4	3,448.48
8	247.87	8	604.05	8	956.50	8	1,316.27	8	1,676.05	8	2,032.73	8	2,392.08	8	2,751.76	8	3,111.39	8	3,454.60
1/4	255.36	1/4	611.31	1/4	964.00	1/4	1,323.77	1/4	1,683.54	1/4	2,040.15	1/4	2,399.57	1/4	2,759.26	1/4	3,118.88	1/4	3,460.72
1/2	262.86	1/2	618.57	1/2	971.49	1/2	1,331.27	1/2	1,691.04	1/2	2,047.58	1/2	2,407.06	1/2	2,766.76	1/2	3,126.37	1/2	3,466.84
3/4	270.36	3/4	625.83	3/4	978.99	3/4	1,338.76	3/4	1,698.54	3/4	2,055.00	3/4	2,414.55	3/4	2,774.25	3/4	3,133.86	3/4	3,472.96
9	277.86	9	633.09	9	986.48	9	1,346.26	9	1,706.03	9	2,062.42	9	2,422.03	9	2,781.75	9	3,141.35	9	3,479.09
1/4	285.36	1/4	640.35	1/4	993.98	1/4	1,353.75	1/4	1,713.49	1/4	2,069.88	1/4	2,429.52	1/4	2,789.25	1/4	3,148.84	1/4	3,485.21
1/2	292.85	1/2	647.61	1/2	1,001.47	1/2	1,361.25	1/2	1,720.95	1/2	2,077.34	1/2	2,437.01	1/2	2,796.74	1/2	3,156.33	1/2	3,491.33
3/4	300.35	3/4	654.87	3/4	1,008.97	3/4	1,368.74	3/4	1,728.41	3/4	2,084.80	3/4	2,444.50	3/4	2,804.24	3/4	3,163.82	3/4	3,497.45
10	307.85	10	662.13	10	1,016.46	10	1,376.24	10	1,735.86	10	2,092.26	10	2,451.99	10	2,811.74	10	3,171.31	10	3,503.57
1/4	315.35	1/4	669.39	1/4	1,023.96	1/4	1,383.73	1/4	1,743.29	1/4	2,099.76	1/4	2,459.47	1/4	2,819.24	1/4	3,178.80	1/4	3,509.69
1/2	322.85	1/2	676.65	1/2	1,031.45	1/2	1,391.23	1/2	1,750.71	1/2	2,107.26	1/2	2,466.96	1/2	2,826.73	1/2	3,186.29	1/2	3,515.81
3/4	330.34	3/4	683.92	3/4	1,038.95	3/4	1,398.72	3/4	1,758.13	3/4	2,114.76	3/4	2,474.45	3/4	2,834.23	3/4	3,193.77	3/4	3,521.93
11	337.84	11	691.18	11	1,046.44	11	1,406.22	11	1,765.55	11	2,122.26	11	2,481.94	11	2,841.73	11	3,201.26	11	3,528.06
1/4	345.34	1/4	698.44	1/4	1,053.94	1/4	1,413.71	1/4	1,772.97	1/4	2,129.76	1/4	2,489.43	1/4	2,849.22	1/4	3,208.75	1/4	3,534.18
1/2	352.84	1/2	705.71	1/2	1,061.43	1/2	1,421.21	1/2	1,780.39	1/2	2,137.25	1/2	2,496.91	1/2	2,856.72	1/2	3,216.24	1/2	3,540.30
3/4	360.34	3/4	712.97	3/4	1,068.93	3/4	1,428.70	3/4	1,787.82	3/4	2,144.75	3/4	2,504.40	3/4	2,864.22	3/4	3,223.73	3/4	3,546.42

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 12'-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 396"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,552.54	0	3,846.19	0	4,126.79	0	4,385.16	0		0		0		0		0		0	
1/4	3,558.66	1/4	3,852.25	1/4	4,132.40	1/4	4,390.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,564.78	1/2	3,858.30	1/2	4,138.00	1/2	4,395.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,570.90	3/4	3,864.35	3/4	4,143.60	3/4	4,400.52	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,577.03	1	3,870.40	1	4,149.20	1	4,405.64	1		1		1		1		1		1	
1/4	3,583.15	1/4	3,876.41	1/4	4,154.77	1/4	4,410.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,589.27	1/2	3,882.43	1/2	4,160.34	1/2	4,415.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,595.39	3/4	3,888.44	3/4	4,165.90	3/4	4,420.88	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,601.51	2	3,894.45	2	4,171.47	2	4,425.96	2		2		2		2		2		2	
1/4	3,607.63	1/4	3,900.43	1/4	4,177.00	1/4	4,431.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,613.75	1/2	3,906.41	1/2	4,182.52	1/2	4,436.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,619.87	3/4	3,912.38	3/4	4,188.05	3/4	4,441.09	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,625.99	3	3,918.36	3	4,193.58	3	4,446.14	3		3		3		3		3		3	
1/4	3,632.12	1/4	3,924.30	1/4	4,199.07	1/4	4,451.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,638.24	1/2	3,930.24	1/2	4,204.56	1/2	4,456.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,644.36	3/4	3,936.18	3/4	4,210.05	3/4	4,461.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,650.48	4	3,942.12	4	4,215.55	4	4,466.17	4		4		4		4		4		4	
1/4	3,656.60	1/4	3,948.02	1/4	4,221.00	1/4	4,471.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.72	1/2	3,953.92	1/2	4,226.45	1/2	4,477.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,668.84	3/4	3,959.82	3/4	4,231.91	3/4	4,482.77	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,674.96	5	3,965.72	5	4,237.36	5	4,488.31	5		5		5		5		5		5	
1/4	3,681.09	1/4	3,971.59	1/4	4,242.78	1/4	4,494.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,687.21	1/2	3,977.45	1/2	4,248.19	1/2	4,500.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,693.33	3/4	3,983.32	3/4	4,253.61	3/4	4,506.57	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,699.45	6	3,989.18	6	4,259.03	6	4,512.65	6		6		6		6		6		6	
1/4	3,705.57	1/4	3,995.01	1/4	4,264.41	1/4	4,518.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.69	1/2	4,000.84	1/2	4,269.79	1/2	4,524.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.81	3/4	4,006.66	3/4	4,275.16	3/4	4,530.91	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,723.93	7	4,012.49	7	4,280.54	7	4,536.99	7		7		7		7		7		7	
1/4	3,730.06	1/4	4,018.28	1/4	4,285.85	1/4	4,544.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.18	1/2	4,024.07	1/2	4,291.15	1/2	4,551.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.30	3/4	4,029.86	3/4	4,296.46	3/4	4,559.15	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,748.42	8	4,035.65	8	4,301.77	8	4,566.53	8		8		8		8		8		8	
1/4	3,754.54	1/4	4,041.40	1/4	4,307.03	1/4	4,573.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.66	1/2	4,047.15	1/2	4,312.30	1/2	4,579.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,766.78	3/4	4,052.91	3/4	4,317.57	3/4	4,586.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,772.90	9	4,058.66	9	4,322.84	9	4,593.34	9		9		9		9		9		9	
1/4	3,779.02	1/4	4,064.37	1/4	4,328.07	1/4	4,598.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,785.15	1/2	4,070.09	1/2	4,333.30	1/2	4,604.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,791.27	3/4	4,075.80	3/4	4,338.53	3/4	4,609.35	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,797.39	10	4,081.52	10	4,343.76	10		10		10		10		10		10		10	
1/4	3,803.50	1/4	4,087.20	1/4	4,348.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,809.61	1/2	4,092.87	1/2	4,354.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,815.73	3/4	4,098.55	3/4	4,359.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,821.84	11	4,104.23	11	4,364.54	11		11		11		11		11		11		11	
1/4	3,827.93	1/4	4,109.87	1/4	4,369.69	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,834.02	1/2	4,115.51	1/2	4,374.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,840.11	3/4	4,121.15	3/4	4,380.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2016 SW
CALCULATED: 05/17/2016 CL
PRINTED: 05/18/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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