



BARGE "EMS 378"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4
1 STBD	- 00-1/4	00-1/4	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4
2 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
2 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
3 PORT	- 00-1/2	00-1/2	- 00-7/8	00-7/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-5/8	02-5/8
3 STBD	- 00-1/2	00-1/2	- 00-7/8	00-7/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-5/8	02-5/8

(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 00-5/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

September 19, 2012

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 378"

1 PORT INNAGE 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	2.65	0	255.56	0	537.22	0	837.66	0	1,158.39	0	1,489.76	0	1,821.14	0	2,152.51	0	2,483.88	0	2,815.25
1/4	5.94	1/4	261.24	1/4	543.32	1/4	844.13	1/4	1,165.29	1/4	1,496.67	1/4	1,828.04	1/4	2,159.41	1/4	2,490.79	1/4	2,822.15
1/2	9.23	1/2	266.91	1/2	549.41	1/2	850.59	1/2	1,172.20	1/2	1,503.57	1/2	1,834.94	1/2	2,166.32	1/2	2,497.69	1/2	2,829.05
3/4	12.52	3/4	272.59	3/4	555.50	3/4	857.06	3/4	1,179.10	3/4	1,510.47	3/4	1,841.85	3/4	2,173.22	3/4	2,504.59	3/4	2,835.96
1	15.81	1	278.27	1	561.59	1	863.52	1	1,186.01	1	1,517.38	1	1,848.75	1	2,180.12	1	2,511.50	1	2,842.86
1/4	20.86	1/4	283.98	1/4	567.72	1/4	870.02	1/4	1,192.91	1/4	1,524.28	1/4	1,855.65	1/4	2,187.03	1/4	2,518.40	1/4	2,849.76
1/2	25.92	1/2	289.70	1/2	573.85	1/2	876.52	1/2	1,199.81	1/2	1,531.19	1/2	1,862.56	1/2	2,193.93	1/2	2,525.30	1/2	2,856.66
3/4	30.97	3/4	295.41	3/4	579.97	3/4	883.02	3/4	1,206.72	3/4	1,538.09	3/4	1,869.46	3/4	2,200.83	3/4	2,532.21	3/4	2,863.57
2	36.02	2	301.12	2	586.10	2	889.52	2	1,213.62	2	1,544.99	2	1,876.37	2	2,207.74	2	2,539.11	2	2,870.47
1/4	41.35	1/4	306.87	1/4	592.26	1/4	896.05	1/4	1,220.52	1/4	1,551.90	1/4	1,883.27	1/4	2,214.64	1/4	2,546.01	1/4	2,877.37
1/2	46.69	1/2	312.62	1/2	598.42	1/2	902.58	1/2	1,227.43	1/2	1,558.80	1/2	1,890.17	1/2	2,221.55	1/2	2,552.92	1/2	2,884.27
3/4	52.02	3/4	318.36	3/4	604.58	3/4	909.12	3/4	1,234.33	3/4	1,565.70	3/4	1,897.08	3/4	2,228.45	3/4	2,559.82	3/4	2,891.18
3	57.35	3	324.11	3	610.75	3	915.65	3	1,241.23	3	1,572.61	3	1,903.98	3	2,235.35	3	2,566.73	3	2,898.08
1/4	62.72	1/4	329.89	1/4	616.94	1/4	922.24	1/4	1,248.14	1/4	1,579.51	1/4	1,910.88	1/4	2,242.26	1/4	2,573.63	1/4	2,904.98
1/2	68.09	1/2	335.67	1/2	623.14	1/2	928.82	1/2	1,255.04	1/2	1,586.41	1/2	1,917.79	1/2	2,249.16	1/2	2,580.53	1/2	2,911.88
3/4	73.46	3/4	341.46	3/4	629.33	3/4	935.41	3/4	1,261.95	3/4	1,593.32	3/4	1,924.69	3/4	2,256.06	3/4	2,587.44	3/4	2,918.79
4	78.82	4	347.24	4	635.53	4	941.99	4	1,268.85	4	1,600.22	4	1,931.59	4	2,262.97	4	2,594.34	4	2,925.69
1/4	84.23	1/4	353.05	1/4	641.76	1/4	948.61	1/4	1,275.75	1/4	1,607.13	1/4	1,938.50	1/4	2,269.87	1/4	2,601.24	1/4	2,932.59
1/2	89.63	1/2	358.87	1/2	647.99	1/2	955.23	1/2	1,282.66	1/2	1,614.03	1/2	1,945.40	1/2	2,276.77	1/2	2,608.15	1/2	2,939.49
3/4	95.03	3/4	364.69	3/4	654.22	3/4	961.85	3/4	1,289.56	3/4	1,620.93	3/4	1,952.31	3/4	2,283.68	3/4	2,615.05	3/4	2,946.40
5	100.43	5	370.50	5	660.45	5	968.47	5	1,296.46	5	1,627.84	5	1,959.21	5	2,290.58	5	2,621.95	5	2,953.30
1/4	105.87	1/4	376.35	1/4	666.69	1/4	975.15	1/4	1,303.37	1/4	1,634.74	1/4	1,966.11	1/4	2,297.49	1/4	2,628.86	1/4	2,960.20
1/2	111.31	1/2	382.20	1/2	672.92	1/2	981.83	1/2	1,310.27	1/2	1,641.64	1/2	1,973.02	1/2	2,304.39	1/2	2,635.76	1/2	2,967.10
3/4	116.74	3/4	388.05	3/4	679.16	3/4	988.51	3/4	1,317.17	3/4	1,648.55	3/4	1,979.92	3/4	2,311.29	3/4	2,642.67	3/4	2,974.01
6	122.18	6	393.91	6	685.40	6	995.19	6	1,324.08	6	1,655.45	6	1,986.82	6	2,318.20	6	2,649.57	6	2,980.91
1/4	127.65	1/4	399.79	1/4	691.67	1/4	1,001.90	1/4	1,330.98	1/4	1,662.35	1/4	1,993.73	1/4	2,325.10	1/4	2,656.47	1/4	2,987.81
1/2	133.12	1/2	405.68	1/2	697.94	1/2	1,008.62	1/2	1,337.88	1/2	1,669.26	1/2	2,000.63	1/2	2,332.00	1/2	2,663.38	1/2	2,994.71
3/4	138.59	3/4	411.56	3/4	704.21	3/4	1,015.33	3/4	1,344.79	3/4	1,676.16	3/4	2,007.53	3/4	2,338.91	3/4	2,670.28	3/4	3,001.62
7	144.06	7	417.45	7	710.48	7	1,022.05	7	1,351.69	7	1,683.06	7	2,014.44	7	2,345.81	7	2,677.18	7	3,008.52
1/4	149.57	1/4	423.37	1/4	716.77	1/4	1,028.79	1/4	1,358.60	1/4	1,689.97	1/4	2,021.34	1/4	2,352.71	1/4	2,684.09	1/4	3,015.42
1/2	155.08	1/2	429.29	1/2	723.06	1/2	1,035.54	1/2	1,365.50	1/2	1,696.87	1/2	2,028.24	1/2	2,359.62	1/2	2,690.99	1/2	3,022.33
3/4	160.58	3/4	435.21	3/4	729.35	3/4	1,042.29	3/4	1,372.40	3/4	1,703.78	3/4	2,035.15	3/4	2,366.52	3/4	2,697.89	3/4	3,029.23
8	166.09	8	441.13	8	735.65	8	1,049.04	8	1,379.31	8	1,710.68	8	2,042.05	8	2,373.42	8	2,704.80	8	3,036.13
1/4	171.63	1/4	447.08	1/4	741.97	1/4	1,055.82	1/4	1,386.21	1/4	1,717.58	1/4	2,048.96	1/4	2,380.33	1/4	2,711.70	1/4	3,043.03
1/2	177.17	1/2	453.03	1/2	748.30	1/2	1,062.60	1/2	1,393.11	1/2	1,724.49	1/2	2,055.86	1/2	2,387.23	1/2	2,718.60	1/2	3,049.94
3/4	182.71	3/4	458.99	3/4	754.63	3/4	1,069.39	3/4	1,400.02	3/4	1,731.39	3/4	2,062.76	3/4	2,394.14	3/4	2,725.51	3/4	3,056.84
9	188.25	9	464.94	9	760.95	9	1,076.17	9	1,406.92	9	1,738.29	9	2,069.67	9	2,401.04	9	2,732.41	9	3,063.74
1/4	193.82	1/4	470.93	1/4	767.31	1/4	1,082.99	1/4	1,413.82	1/4	1,745.20	1/4	2,076.57	1/4	2,407.94	1/4	2,739.32	1/4	3,070.64
1/2	199.40	1/2	476.92	1/2	773.67	1/2	1,089.80	1/2	1,420.73	1/2	1,752.10	1/2	2,083.47	1/2	2,414.85	1/2	2,746.22	1/2	3,077.55
3/4	204.97	3/4	482.91	3/4	780.03	3/4	1,096.62	3/4	1,427.63	3/4	1,759.00	3/4	2,090.38	3/4	2,421.75	3/4	2,753.12	3/4	3,084.45
10	210.55	10	488.90	10	786.40	10	1,103.44	10	1,434.54	10	1,765.91	10	2,097.28	10	2,428.65	10	2,760.03	10	3,091.35
1/4	216.15	1/4	494.92	1/4	792.79	1/4	1,110.29	1/4	1,441.44	1/4	1,772.81	1/4	2,104.18	1/4	2,435.56	1/4	2,766.93	1/4	3,098.25
1/2	221.76	1/2	500.95	1/2	799.18	1/2	1,117.14	1/2	1,448.34	1/2	1,779.72	1/2	2,111.09	1/2	2,442.46	1/2	2,773.83	1/2	3,105.16
3/4	227.37	3/4	506.97	3/4	805.57	3/4	1,123.99	3/4	1,455.25	3/4	1,786.62	3/4	2,117.99	3/4	2,449.36	3/4	2,780.73	3/4	3,112.06
11	232.98	11	512.99	11	811.96	11	1,130.85	11	1,462.15	11	1,793.52	11	2,124.90	11	2,456.27	11	2,787.64	11	3,118.96
1/4	238.63	1/4	519.05	1/4	818.39	1/4	1,137.73	1/4	1,469.05	1/4	1,800.43	1/4	2,131.80	1/4	2,463.17	1/4	2,794.54	1/4	3,125.86
1/2	244.27	1/2	525.11	1/2	824.81	1/2	1,144.62	1/2	1,475.96	1/2	1,807.33	1/2	2,138.70	1/2	2,470.08	1/2	2,801.44	1/2	3,132.77
3/4	249.91	3/4	531.17	3/4	831.24	3/4	1,151.50	3/4	1,482.86	3/4	1,814.23	3/4	2,145.61	3/4	2,476.98	3/4	2,808.34	3/4	3,139.67

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 378"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE 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	3,146.57	0	3,477.90	0	3,809.22	0	4,139.75	0		0		0		0		0		0	
1/4	3,153.47	1/4	3,484.80	1/4	3,816.12	1/4	4,146.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,160.38	1/2	3,491.70	1/2	3,823.03	1/2	4,153.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,167.28	3/4	3,498.60	3/4	3,829.93	3/4	4,160.33	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,174.18	1	3,505.51	1	3,836.83	1	4,167.20	1		1		1		1		1		1	
1/4	3,181.09	1/4	3,512.41	1/4	3,843.73	1/4	4,174.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,187.99	1/2	3,519.31	1/2	3,850.64	1/2	4,180.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,194.89	3/4	3,526.22	3/4	3,857.54	3/4	4,187.78	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,201.79	2	3,533.12	2	3,864.44	2	4,194.65	2		2		2		2		2		2	
1/4	3,208.70	1/4	3,540.02	1/4	3,871.35	1/4	4,201.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,215.60	1/2	3,546.92	1/2	3,878.25	1/2	4,208.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,222.50	3/4	3,553.83	3/4	3,885.15	3/4	4,215.24	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,229.40	3	3,560.73	3	3,892.05	3	4,222.10	3		3		3		3		3		3	
1/4	3,236.31	1/4	3,567.63	1/4	3,898.96	1/4	4,228.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.21	1/2	3,574.53	1/2	3,905.86	1/2	4,235.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.11	3/4	3,581.44	3/4	3,912.76	3/4	4,242.69	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,257.01	4	3,588.34	4	3,919.66	4	4,249.55	4		4		4		4		4		4	
1/4	3,263.92	1/4	3,595.24	1/4	3,926.57	1/4	4,256.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,270.82	1/2	3,602.14	1/2	3,933.47	1/2	4,263.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,277.72	3/4	3,609.05	3/4	3,940.37	3/4	4,270.14	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,284.62	5	3,615.95	5	3,947.27	5	4,277.00	5		5		5		5		5		5	
1/4	3,291.53	1/4	3,622.85	1/4	3,954.18	1/4	4,283.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.43	1/2	3,629.75	1/2	3,961.08	1/2	4,290.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.33	3/4	3,636.66	3/4	3,967.98	3/4	4,297.59	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,312.23	6	3,643.56	6	3,974.88	6	4,304.45	6		6		6		6		6		6	
1/4	3,319.14	1/4	3,650.46	1/4	3,981.79	1/4	4,311.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,326.04	1/2	3,657.36	1/2	3,988.69	1/2	4,318.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,332.94	3/4	3,664.27	3/4	3,995.59	3/4	4,325.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,339.84	7	3,671.17	7	4,002.49	7	4,331.90	7		7		7		7		7		7	
1/4	3,346.75	1/4	3,678.07	1/4	4,009.36	1/4	4,338.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,353.65	1/2	3,684.97	1/2	4,016.22	1/2	4,345.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,360.55	3/4	3,691.88	3/4	4,023.08	3/4	4,352.27	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,367.46	8	3,698.78	8	4,029.94	8	4,359.05	8		8		8		8		8		8	
1/4	3,374.36	1/4	3,705.68	1/4	4,036.81	1/4	4,365.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,381.26	1/2	3,712.59	1/2	4,043.67	1/2	4,371.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,388.16	3/4	3,719.49	3/4	4,050.53	3/4	4,378.37	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,395.07	9	3,726.39	9	4,057.40	9	4,384.81	9		9		9		9		9		9	
1/4	3,401.97	1/4	3,733.29	1/4	4,064.26	1/4	4,390.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,408.87	1/2	3,740.20	1/2	4,071.12	1/2	4,395.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,415.77	3/4	3,747.10	3/4	4,077.98	3/4	4,400.47	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,422.68	10	3,754.00	10	4,084.85	10		10		10		10		10		10		10	
1/4	3,429.58	1/4	3,760.90	1/4	4,091.71	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,436.48	1/2	3,767.81	1/2	4,098.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,443.38	3/4	3,774.71	3/4	4,105.43	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,450.29	11	3,781.61	11	4,112.30	11		11		11		11		11		11		11	
1/4	3,457.19	1/4	3,788.51	1/4	4,119.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,464.09	1/2	3,795.42	1/2	4,126.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,470.99	3/4	3,802.32	3/4	4,132.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

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



BARGE "EMS 378"

1 STBD INNAGE 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	2.66	0	255.63	0	537.36	0	838.67	0	1,159.99	0	1,491.40	0	1,822.82	0	2,154.23	0	2,485.65	0	2,817.06
1/4	5.95	1/4	261.31	1/4	543.46	1/4	845.16	1/4	1,166.89	1/4	1,498.31	1/4	1,829.72	1/4	2,161.14	1/4	2,492.55	1/4	2,823.96
1/2	9.24	1/2	266.99	1/2	549.55	1/2	851.65	1/2	1,173.79	1/2	1,505.21	1/2	1,836.63	1/2	2,168.04	1/2	2,499.46	1/2	2,830.86
3/4	12.53	3/4	272.67	3/4	555.64	3/4	858.15	3/4	1,180.70	3/4	1,512.11	3/4	1,843.53	3/4	2,174.95	3/4	2,506.36	3/4	2,837.77
1	15.83	1	278.35	1	561.74	1	864.64	1	1,187.60	1	1,519.02	1	1,850.44	1	2,181.85	1	2,513.27	1	2,844.67
1/4	20.88	1/4	284.07	1/4	567.87	1/4	871.17	1/4	1,194.51	1/4	1,525.92	1/4	1,857.34	1/4	2,188.76	1/4	2,520.17	1/4	2,851.57
1/2	25.93	1/2	289.78	1/2	573.99	1/2	877.70	1/2	1,201.41	1/2	1,532.83	1/2	1,864.24	1/2	2,195.66	1/2	2,527.08	1/2	2,858.48
3/4	30.99	3/4	295.50	3/4	580.12	3/4	884.23	3/4	1,208.32	3/4	1,539.73	3/4	1,871.15	3/4	2,202.56	3/4	2,533.98	3/4	2,865.38
2	36.04	2	301.21	2	586.25	2	890.76	2	1,215.22	2	1,546.64	2	1,878.05	2	2,209.47	2	2,540.89	2	2,872.28
1/4	41.37	1/4	306.96	1/4	592.41	1/4	897.32	1/4	1,222.13	1/4	1,553.54	1/4	1,884.96	1/4	2,216.37	1/4	2,547.79	1/4	2,879.19
1/2	46.71	1/2	312.71	1/2	598.57	1/2	903.89	1/2	1,229.03	1/2	1,560.45	1/2	1,891.86	1/2	2,223.28	1/2	2,554.69	1/2	2,886.09
3/4	52.04	3/4	318.45	3/4	604.74	3/4	910.45	3/4	1,235.93	3/4	1,567.35	3/4	1,898.77	3/4	2,230.18	3/4	2,561.60	3/4	2,892.99
3	57.38	3	324.20	3	610.90	3	917.01	3	1,242.84	3	1,574.26	3	1,905.67	3	2,237.09	3	2,568.50	3	2,899.90
1/4	62.75	1/4	329.99	1/4	617.10	1/4	923.62	1/4	1,249.74	1/4	1,581.16	1/4	1,912.58	1/4	2,243.99	1/4	2,575.41	1/4	2,906.80
1/2	68.12	1/2	335.77	1/2	623.29	1/2	930.24	1/2	1,256.65	1/2	1,588.06	1/2	1,919.48	1/2	2,250.90	1/2	2,582.31	1/2	2,913.70
3/4	73.48	3/4	341.55	3/4	629.49	3/4	936.85	3/4	1,263.55	3/4	1,594.97	3/4	1,926.38	3/4	2,257.80	3/4	2,589.22	3/4	2,920.61
4	78.85	4	347.34	4	635.69	4	943.46	4	1,270.46	4	1,601.87	4	1,933.29	4	2,264.71	4	2,596.12	4	2,927.51
1/4	84.26	1/4	353.15	1/4	641.92	1/4	950.10	1/4	1,277.36	1/4	1,608.78	1/4	1,940.19	1/4	2,271.61	1/4	2,603.03	1/4	2,934.41
1/2	89.66	1/2	358.97	1/2	648.15	1/2	956.75	1/2	1,284.27	1/2	1,615.68	1/2	1,947.10	1/2	2,278.51	1/2	2,609.93	1/2	2,941.32
3/4	95.07	3/4	364.79	3/4	654.38	3/4	963.39	3/4	1,291.17	3/4	1,622.59	3/4	1,954.00	3/4	2,285.42	3/4	2,616.83	3/4	2,948.22
5	100.47	5	370.61	5	660.61	5	970.04	5	1,298.08	5	1,629.49	5	1,960.91	5	2,292.32	5	2,623.74	5	2,955.12
1/4	105.91	1/4	376.46	1/4	666.88	1/4	976.72	1/4	1,304.98	1/4	1,636.40	1/4	1,967.81	1/4	2,299.23	1/4	2,630.64	1/4	2,962.03
1/2	111.34	1/2	382.31	1/2	673.15	1/2	983.40	1/2	1,311.88	1/2	1,643.30	1/2	1,974.72	1/2	2,306.13	1/2	2,637.55	1/2	2,968.93
3/4	116.78	3/4	388.16	3/4	679.41	3/4	990.08	3/4	1,318.79	3/4	1,650.20	3/4	1,981.62	3/4	2,313.04	3/4	2,644.45	3/4	2,975.83
6	122.22	6	394.01	6	685.68	6	996.76	6	1,325.69	6	1,657.11	6	1,988.53	6	2,319.94	6	2,651.36	6	2,982.74
1/4	127.69	1/4	399.90	1/4	691.98	1/4	1,003.48	1/4	1,332.60	1/4	1,664.01	1/4	1,995.43	1/4	2,326.85	1/4	2,658.26	1/4	2,989.64
1/2	133.17	1/2	405.79	1/2	698.28	1/2	1,010.19	1/2	1,339.50	1/2	1,670.92	1/2	2,002.33	1/2	2,333.75	1/2	2,665.17	1/2	2,996.54
3/4	138.64	3/4	411.67	3/4	704.58	3/4	1,016.91	3/4	1,346.41	3/4	1,677.82	3/4	2,009.24	3/4	2,340.65	3/4	2,672.07	3/4	3,003.45
7	144.11	7	417.56	7	710.88	7	1,023.62	7	1,353.31	7	1,684.73	7	2,016.14	7	2,347.56	7	2,678.98	7	3,010.35
1/4	149.62	1/4	423.48	1/4	717.20	1/4	1,030.37	1/4	1,360.22	1/4	1,691.63	1/4	2,023.05	1/4	2,354.46	1/4	2,685.88	1/4	3,017.25
1/2	155.13	1/2	429.40	1/2	723.52	1/2	1,037.12	1/2	1,367.12	1/2	1,698.54	1/2	2,029.95	1/2	2,361.37	1/2	2,692.78	1/2	3,024.16
3/4	160.63	3/4	435.32	3/4	729.85	3/4	1,043.87	3/4	1,374.02	3/4	1,705.44	3/4	2,036.86	3/4	2,368.27	3/4	2,699.69	3/4	3,031.06
8	166.14	8	441.25	8	736.17	8	1,050.62	8	1,380.93	8	1,712.35	8	2,043.76	8	2,375.18	8	2,706.59	8	3,037.97
1/4	171.68	1/4	447.20	1/4	742.53	1/4	1,057.40	1/4	1,387.83	1/4	1,719.25	1/4	2,050.67	1/4	2,382.08	1/4	2,713.50	1/4	3,044.87
1/2	177.22	1/2	453.16	1/2	748.88	1/2	1,064.18	1/2	1,394.74	1/2	1,726.15	1/2	2,057.57	1/2	2,388.99	1/2	2,720.40	1/2	3,051.77
3/4	182.77	3/4	459.11	3/4	755.24	3/4	1,070.97	3/4	1,401.64	3/4	1,733.06	3/4	2,064.47	3/4	2,395.89	3/4	2,727.31	3/4	3,058.68
9	188.31	9	465.07	9	761.59	9	1,077.75	9	1,408.55	9	1,739.96	9	2,071.38	9	2,402.80	9	2,734.21	9	3,065.58
1/4	193.88	1/4	471.06	1/4	767.99	1/4	1,084.57	1/4	1,415.45	1/4	1,746.87	1/4	2,078.28	1/4	2,409.70	1/4	2,741.12	1/4	3,072.48
1/2	199.46	1/2	477.05	1/2	774.38	1/2	1,091.39	1/2	1,422.36	1/2	1,753.77	1/2	2,085.19	1/2	2,416.60	1/2	2,748.02	1/2	3,079.39
3/4	205.04	3/4	483.04	3/4	780.77	3/4	1,098.21	3/4	1,429.26	3/4	1,760.68	3/4	2,092.09	3/4	2,423.51	3/4	2,754.92	3/4	3,086.29
10	210.61	10	489.03	10	787.16	10	1,105.03	10	1,436.17	10	1,767.58	10	2,099.00	10	2,430.41	10	2,761.83	10	3,093.19
1/4	216.22	1/4	495.05	1/4	793.58	1/4	1,111.88	1/4	1,443.07	1/4	1,774.49	1/4	2,105.90	1/4	2,437.32	1/4	2,768.73	1/4	3,100.10
1/2	221.83	1/2	501.08	1/2	800.00	1/2	1,118.73	1/2	1,449.97	1/2	1,781.39	1/2	2,112.81	1/2	2,444.22	1/2	2,775.64	1/2	3,107.00
3/4	227.44	3/4	507.10	3/4	806.42	3/4	1,125.58	3/4	1,456.88	3/4	1,788.29	3/4	2,119.71	3/4	2,451.13	3/4	2,782.54	3/4	3,113.90
11	233.05	11	513.13	11	812.84	11	1,132.44	11	1,463.78	11	1,795.20	11	2,126.62	11	2,458.03	11	2,789.44	11	3,120.81
1/4	238.70	1/4	519.19	1/4	819.30	1/4	1,139.32	1/4	1,470.69	1/4	1,802.10	1/4	2,133.52	1/4	2,464.94	1/4	2,796.35	1/4	3,127.71
1/2	244.34	1/2	525.24	1/2	825.75	1/2	1,146.21	1/2	1,477.59	1/2	1,809.01	1/2	2,140.42	1/2	2,471.84	1/2	2,803.25	1/2	3,134.61
3/4	249.99	3/4	531.30	3/4	832.21	3/4	1,153.10	3/4	1,484.50	3/4	1,815.91	3/4	2,147.33	3/4	2,478.74	3/4	2,810.15	3/4	3,141.52

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 378"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,148.42	0	3,479.78	0	3,811.15	0	4,141.72	0		0		0		0		0		0	
1/4	3,155.32	1/4	3,486.69	1/4	3,818.05	1/4	4,148.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,162.23	1/2	3,493.59	1/2	3,824.95	1/2	4,155.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,169.13	3/4	3,500.49	3/4	3,831.86	3/4	4,162.31	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,176.03	1	3,507.40	1	3,838.76	1	4,169.17	1		1		1		1		1		1	
1/4	3,182.94	1/4	3,514.30	1/4	3,845.66	1/4	4,176.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,189.84	1/2	3,521.20	1/2	3,852.57	1/2	4,182.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.74	3/4	3,528.11	3/4	3,859.47	3/4	4,189.77	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,203.65	2	3,535.01	2	3,866.37	2	4,196.63	2		2		2		2		2		2	
1/4	3,210.55	1/4	3,541.91	1/4	3,873.28	1/4	4,203.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,217.45	1/2	3,548.82	1/2	3,880.18	1/2	4,210.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,224.36	3/4	3,555.72	3/4	3,887.08	3/4	4,217.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,231.26	3	3,562.62	3	3,893.99	3	4,224.09	3		3		3		3		3		3	
1/4	3,238.16	1/4	3,569.53	1/4	3,900.89	1/4	4,230.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.07	1/2	3,576.43	1/2	3,907.79	1/2	4,237.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.97	3/4	3,583.33	3/4	3,914.70	3/4	4,244.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,258.87	4	3,590.24	4	3,921.60	4	4,251.54	4		4		4		4		4		4	
1/4	3,265.78	1/4	3,597.14	1/4	3,928.50	1/4	4,258.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,272.68	1/2	3,604.04	1/2	3,935.41	1/2	4,265.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.58	3/4	3,610.95	3/4	3,942.31	3/4	4,272.13	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,286.49	5	3,617.85	5	3,949.21	5	4,279.00	5		5		5		5		5		5	
1/4	3,293.39	1/4	3,624.75	1/4	3,956.12	1/4	4,285.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.29	1/2	3,631.66	1/2	3,963.02	1/2	4,292.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,307.20	3/4	3,638.56	3/4	3,969.92	3/4	4,299.59	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,314.10	6	3,645.46	6	3,976.83	6	4,306.45	6		6		6		6		6		6	
1/4	3,321.00	1/4	3,652.37	1/4	3,983.73	1/4	4,313.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,327.91	1/2	3,659.27	1/2	3,990.63	1/2	4,320.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,334.81	3/4	3,666.17	3/4	3,997.54	3/4	4,327.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,341.71	7	3,673.08	7	4,004.44	7	4,333.91	7		7		7		7		7		7	
1/4	3,348.62	1/4	3,679.98	1/4	4,011.31	1/4	4,340.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,355.52	1/2	3,686.88	1/2	4,018.17	1/2	4,347.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,362.42	3/4	3,693.79	3/4	4,025.03	3/4	4,354.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,369.33	8	3,700.69	8	4,031.90	8	4,361.07	8		8		8		8		8		8	
1/4	3,376.23	1/4	3,707.59	1/4	4,038.76	1/4	4,367.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,383.14	1/2	3,714.50	1/2	4,045.62	1/2	4,373.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,390.04	3/4	3,721.40	3/4	4,052.49	3/4	4,380.38	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,396.94	9	3,728.31	9	4,059.35	9	4,386.82	9		9		9		9		9		9	
1/4	3,403.85	1/4	3,735.21	1/4	4,066.22	1/4	4,393.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,410.75	1/2	3,742.11	1/2	4,073.08	1/2	4,397.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.65	3/4	3,749.02	3/4	4,079.94	3/4	4,402.49	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,424.56	10	3,755.92	10	4,086.81	10		10		10		10		10		10		10	
1/4	3,431.46	1/4	3,762.82	1/4	4,093.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,438.36	1/2	3,769.73	1/2	4,100.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,445.27	3/4	3,776.63	3/4	4,107.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,452.17	11	3,783.53	11	4,114.26	11		11		11		11		11		11		11	
1/4	3,459.07	1/4	3,790.44	1/4	4,121.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,465.98	1/2	3,797.34	1/2	4,127.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,472.88	3/4	3,804.24	3/4	4,134.86	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 378"

2 PORT INNAGE 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	18.88	0	396.97	0	775.20	0	1,158.75	0	1,547.28	0	1,935.81	0	2,324.34	0	2,712.87	0	3,101.41	0	3,489.93
1/4	24.66	1/4	405.07	1/4	782.97	1/4	1,166.84	1/4	1,555.38	1/4	1,943.91	1/4	2,332.44	1/4	2,720.97	1/4	3,109.50	1/4	3,498.02
1/2	30.44	1/2	413.16	1/2	790.74	1/2	1,174.94	1/2	1,563.47	1/2	1,952.00	1/2	2,340.53	1/2	2,729.06	1/2	3,117.59	1/2	3,506.12
3/4	36.22	3/4	421.25	3/4	798.52	3/4	1,183.03	3/4	1,571.56	3/4	1,960.10	3/4	2,348.63	3/4	2,737.16	3/4	3,125.69	3/4	3,514.21
1	42.00	1	429.35	1	806.29	1	1,191.13	1	1,579.66	1	1,968.19	1	2,356.72	1	2,745.25	1	3,133.78	1	3,522.30
1/4	49.81	1/4	437.44	1/4	814.07	1/4	1,199.22	1/4	1,587.75	1/4	1,976.28	1/4	2,364.82	1/4	2,753.35	1/4	3,141.88	1/4	3,530.40
1/2	57.61	1/2	445.53	1/2	821.85	1/2	1,207.32	1/2	1,595.85	1/2	1,984.38	1/2	2,372.91	1/2	2,761.44	1/2	3,149.97	1/2	3,538.49
3/4	65.41	3/4	453.63	3/4	829.64	3/4	1,215.41	3/4	1,603.94	3/4	1,992.47	3/4	2,381.00	3/4	2,769.54	3/4	3,158.07	3/4	3,546.58
2	73.22	2	461.72	2	837.42	2	1,223.51	2	1,612.04	2	2,000.57	2	2,389.10	2	2,777.63	2	3,166.16	2	3,554.68
1/4	81.31	1/4	469.82	1/4	845.21	1/4	1,231.60	1/4	1,620.13	1/4	2,008.66	1/4	2,397.19	1/4	2,785.72	1/4	3,174.26	1/4	3,562.77
1/2	89.41	1/2	477.91	1/2	853.00	1/2	1,239.69	1/2	1,628.23	1/2	2,016.76	1/2	2,405.29	1/2	2,793.82	1/2	3,182.35	1/2	3,570.86
3/4	97.50	3/4	486.00	3/4	860.79	3/4	1,247.79	3/4	1,636.32	3/4	2,024.85	3/4	2,413.38	3/4	2,801.91	3/4	3,190.44	3/4	3,578.96
3	105.59	3	494.10	3	868.57	3	1,255.88	3	1,644.41	3	2,032.95	3	2,421.48	3	2,810.01	3	3,198.54	3	3,587.05
1/4	113.69	1/4	502.19	1/4	876.36	1/4	1,263.98	1/4	1,652.51	1/4	2,041.04	1/4	2,429.57	1/4	2,818.10	1/4	3,206.63	1/4	3,595.14
1/2	121.78	1/2	510.28	1/2	884.15	1/2	1,272.07	1/2	1,660.60	1/2	2,049.13	1/2	2,437.67	1/2	2,826.20	1/2	3,214.73	1/2	3,603.24
3/4	129.88	3/4	518.38	3/4	891.94	3/4	1,280.17	3/4	1,668.70	3/4	2,057.23	3/4	2,445.76	3/4	2,834.29	3/4	3,222.82	3/4	3,611.33
4	137.97	4	526.47	4	899.73	4	1,288.26	4	1,676.79	4	2,065.32	4	2,453.85	4	2,842.39	4	3,230.92	4	3,619.42
1/4	146.06	1/4	534.25	1/4	907.82	1/4	1,296.35	1/4	1,684.89	1/4	2,073.42	1/4	2,461.95	1/4	2,850.48	1/4	3,239.01	1/4	3,627.52
1/2	154.16	1/2	542.04	1/2	915.92	1/2	1,304.45	1/2	1,692.98	1/2	2,081.51	1/2	2,470.04	1/2	2,858.57	1/2	3,247.11	1/2	3,635.61
3/4	162.25	3/4	549.82	3/4	924.01	3/4	1,312.54	3/4	1,701.07	3/4	2,089.61	3/4	2,478.14	3/4	2,866.67	3/4	3,255.20	3/4	3,643.70
5	170.34	5	557.60	5	932.11	5	1,320.64	5	1,709.17	5	2,097.70	5	2,486.23	5	2,874.76	5	3,263.29	5	3,651.80
1/4	178.44	1/4	565.37	1/4	940.20	1/4	1,328.73	1/4	1,717.26	1/4	2,105.79	1/4	2,494.33	1/4	2,882.86	1/4	3,271.39	1/4	3,659.89
1/2	186.53	1/2	573.15	1/2	948.30	1/2	1,336.83	1/2	1,725.36	1/2	2,113.89	1/2	2,502.42	1/2	2,890.95	1/2	3,279.48	1/2	3,667.98
3/4	194.63	3/4	580.92	3/4	956.39	3/4	1,344.92	3/4	1,733.45	3/4	2,121.98	3/4	2,510.51	3/4	2,899.05	3/4	3,287.58	3/4	3,676.08
6	202.72	6	588.69	6	964.48	6	1,353.02	6	1,741.55	6	2,130.08	6	2,518.61	6	2,907.14	6	3,295.67	6	3,684.17
1/4	210.81	1/4	596.46	1/4	972.58	1/4	1,361.11	1/4	1,749.64	1/4	2,138.17	1/4	2,526.70	1/4	2,915.23	1/4	3,303.77	1/4	3,692.26
1/2	218.91	1/2	604.24	1/2	980.67	1/2	1,369.20	1/2	1,757.74	1/2	2,146.27	1/2	2,534.80	1/2	2,923.33	1/2	3,311.86	1/2	3,700.36
3/4	227.00	3/4	612.01	3/4	988.77	3/4	1,377.30	3/4	1,765.83	3/4	2,154.36	3/4	2,542.89	3/4	2,931.42	3/4	3,319.95	3/4	3,708.45
7	235.10	7	619.78	7	996.86	7	1,385.39	7	1,773.92	7	2,162.46	7	2,550.99	7	2,939.52	7	3,328.05	7	3,716.54
1/4	243.19	1/4	627.55	1/4	1,004.96	1/4	1,393.49	1/4	1,782.02	1/4	2,170.55	1/4	2,559.08	1/4	2,947.61	1/4	3,336.14	1/4	3,724.64
1/2	251.28	1/2	635.33	1/2	1,013.05	1/2	1,401.58	1/2	1,790.11	1/2	2,178.64	1/2	2,567.18	1/2	2,955.71	1/2	3,344.24	1/2	3,732.73
3/4	259.38	3/4	643.10	3/4	1,021.15	3/4	1,409.68	3/4	1,798.21	3/4	2,186.74	3/4	2,575.27	3/4	2,963.80	3/4	3,352.33	3/4	3,740.82
8	267.47	8	650.87	8	1,029.24	8	1,417.77	8	1,806.30	8	2,194.83	8	2,583.36	8	2,971.90	8	3,360.43	8	3,748.92
1/4	275.56	1/4	658.64	1/4	1,037.33	1/4	1,425.87	1/4	1,814.40	1/4	2,202.93	1/4	2,591.46	1/4	2,979.99	1/4	3,368.52	1/4	3,757.01
1/2	283.66	1/2	666.41	1/2	1,045.43	1/2	1,433.96	1/2	1,822.49	1/2	2,211.02	1/2	2,599.55	1/2	2,988.08	1/2	3,376.62	1/2	3,765.10
3/4	291.75	3/4	674.18	3/4	1,053.52	3/4	1,442.05	3/4	1,830.59	3/4	2,219.12	3/4	2,607.65	3/4	2,996.18	3/4	3,384.71	3/4	3,773.20
9	299.85	9	681.94	9	1,061.62	9	1,450.15	9	1,838.68	9	2,227.21	9	2,615.74	9	3,004.27	9	3,392.80	9	3,781.29
1/4	307.94	1/4	689.71	1/4	1,069.71	1/4	1,458.24	1/4	1,846.77	1/4	2,235.31	1/4	2,623.84	1/4	3,012.37	1/4	3,400.90	1/4	3,789.39
1/2	316.03	1/2	697.48	1/2	1,077.81	1/2	1,466.34	1/2	1,854.87	1/2	2,243.40	1/2	2,631.93	1/2	3,020.46	1/2	3,408.99	1/2	3,797.48
3/4	324.13	3/4	705.25	3/4	1,085.90	3/4	1,474.43	3/4	1,862.96	3/4	2,251.49	3/4	2,640.03	3/4	3,028.56	3/4	3,417.09	3/4	3,805.57
10	332.22	10	713.02	10	1,093.99	10	1,482.53	10	1,871.06	10	2,259.59	10	2,648.12	10	3,036.65	10	3,425.18	10	3,813.67
1/4	340.31	1/4	720.79	1/4	1,102.09	1/4	1,490.62	1/4	1,879.15	1/4	2,267.68	1/4	2,656.21	1/4	3,044.75	1/4	3,433.28	1/4	3,821.76
1/2	348.41	1/2	728.56	1/2	1,110.18	1/2	1,498.71	1/2	1,887.25	1/2	2,275.78	1/2	2,664.31	1/2	3,052.84	1/2	3,441.37	1/2	3,829.85
3/4	356.50	3/4	736.34	3/4	1,118.28	3/4	1,506.81	3/4	1,895.34	3/4	2,283.87	3/4	2,672.40	3/4	3,060.93	3/4	3,449.46	3/4	3,837.95
11	364.60	11	744.11	11	1,126.37	11	1,514.90	11	1,903.43	11	2,291.97	11	2,680.50	11	3,069.03	11	3,457.56	11	3,846.04
1/4	372.69	1/4	751.88	1/4	1,134.47	1/4	1,523.00	1/4	1,911.53	1/4	2,300.06	1/4	2,688.59	1/4	3,077.12	1/4	3,465.65	1/4	3,854.13
1/2	380.78	1/2	759.65	1/2	1,142.56	1/2	1,531.09	1/2	1,919.62	1/2	2,308.15	1/2	2,696.69	1/2	3,085.22	1/2	3,473.74	1/2	3,862.23
3/4	388.88	3/4	767.43	3/4	1,150.66	3/4	1,539.19	3/4	1,927.72	3/4	2,316.25	3/4	2,704.78	3/4	3,093.31	3/4	3,481.84	3/4	3,870.32

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 378"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,878.41	0	4,266.90	0	4,655.38	0	5,042.92	0		0		0		0		0		0	
1/4	3,886.51	1/4	4,274.99	1/4	4,663.47	1/4	5,050.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,894.60	1/2	4,283.08	1/2	4,671.57	1/2	5,059.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,902.69	3/4	4,291.18	3/4	4,679.66	3/4	5,067.05	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,910.79	1	4,299.27	1	4,687.75	1	5,075.10	1		1		1		1		1		1	
1/4	3,918.88	1/4	4,307.36	1/4	4,695.85	1/4	5,083.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,926.97	1/2	4,315.46	1/2	4,703.94	1/2	5,091.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,935.07	3/4	4,323.55	3/4	4,712.03	3/4	5,099.24	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,943.16	2	4,331.64	2	4,720.13	2	5,107.28	2		2		2		2		2		2	
1/4	3,951.25	1/4	4,339.74	1/4	4,728.22	1/4	5,115.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,959.35	1/2	4,347.83	1/2	4,736.31	1/2	5,123.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.44	3/4	4,355.92	3/4	4,744.41	3/4	5,131.42	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,975.53	3	4,364.02	3	4,752.50	3	5,139.47	3		3		3		3		3		3	
1/4	3,983.63	1/4	4,372.11	1/4	4,760.59	1/4	5,147.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,991.72	1/2	4,380.20	1/2	4,768.69	1/2	5,155.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,999.81	3/4	4,388.30	3/4	4,776.78	3/4	5,163.61	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,007.91	4	4,396.39	4	4,784.87	4	5,171.65	4		4		4		4		4		4	
1/4	4,016.00	1/4	4,404.48	1/4	4,792.97	1/4	5,179.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,024.09	1/2	4,412.58	1/2	4,801.06	1/2	5,187.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,032.19	3/4	4,420.67	3/4	4,809.15	3/4	5,195.79	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,040.28	5	4,428.76	5	4,817.25	5	5,203.84	5		5		5		5		5		5	
1/4	4,048.37	1/4	4,436.86	1/4	4,825.34	1/4	5,211.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,056.47	1/2	4,444.95	1/2	4,833.43	1/2	5,219.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,064.56	3/4	4,453.04	3/4	4,841.53	3/4	5,227.98	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,072.65	6	4,461.14	6	4,849.62	6	5,236.02	6		6		6		6		6		6	
1/4	4,080.75	1/4	4,469.23	1/4	4,857.71	1/4	5,244.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,088.84	1/2	4,477.32	1/2	4,865.81	1/2	5,252.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,096.93	3/4	4,485.42	3/4	4,873.90	3/4	5,260.16	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,105.03	7	4,493.51	7	4,881.99	7	5,268.21	7		7		7		7		7		7	
1/4	4,113.12	1/4	4,501.60	1/4	4,890.04	1/4	5,276.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,121.21	1/2	4,509.70	1/2	4,898.09	1/2	5,284.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,129.31	3/4	4,517.79	3/4	4,906.13	3/4	5,292.09	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,137.40	8	4,525.88	8	4,914.18	8	5,300.05	8		8		8		8		8		8	
1/4	4,145.49	1/4	4,533.98	1/4	4,922.22	1/4	5,307.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,153.59	1/2	4,542.07	1/2	4,930.27	1/2	5,315.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,161.68	3/4	4,550.16	3/4	4,938.32	3/4	5,322.69	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,169.77	9	4,558.26	9	4,946.36	9	5,330.23	9		9		9		9		9		9	
1/4	4,177.87	1/4	4,566.35	1/4	4,954.41	1/4	5,336.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,185.96	1/2	4,574.44	1/2	4,962.46	1/2	5,342.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,194.06	3/4	4,582.54	3/4	4,970.50	3/4	5,348.60	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,202.15	10	4,590.63	10	4,978.55	10		10		10		10		10		10		10	
1/4	4,210.24	1/4	4,598.73	1/4	4,986.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,218.34	1/2	4,606.82	1/2	4,994.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,226.43	3/4	4,614.91	3/4	5,002.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,234.52	11	4,623.01	11	5,010.73	11		11		11		11		11		11		11	
1/4	4,242.62	1/4	4,631.10	1/4	5,018.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,250.71	1/2	4,639.19	1/2	5,026.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,258.80	3/4	4,647.29	3/4	5,034.87	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 378"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	18.86	0	396.62	0	784.46	0	1,172.61	0	1,560.79	0	1,948.98	0	2,337.16	0	2,725.35	0	3,113.53	0	3,501.71
1/4	24.64	1/4	404.70	1/4	792.54	1/4	1,180.69	1/4	1,568.88	1/4	1,957.06	1/4	2,345.25	1/4	2,733.44	1/4	3,121.62	1/4	3,509.80
1/2	30.41	1/2	412.79	1/2	800.62	1/2	1,188.78	1/2	1,576.97	1/2	1,965.15	1/2	2,353.34	1/2	2,741.52	1/2	3,129.71	1/2	3,517.88
3/4	36.19	3/4	420.88	3/4	808.69	3/4	1,196.87	3/4	1,585.05	3/4	1,973.24	3/4	2,361.42	3/4	2,749.61	3/4	3,137.80	3/4	3,525.97
1	41.96	1	428.96	1	816.77	1	1,204.95	1	1,593.14	1	1,981.33	1	2,369.51	1	2,757.70	1	3,145.88	1	3,534.06
1/4	49.76	1/4	437.05	1/4	824.86	1/4	1,213.04	1/4	1,601.23	1/4	1,989.41	1/4	2,377.60	1/4	2,765.78	1/4	3,153.97	1/4	3,542.14
1/2	57.56	1/2	445.14	1/2	832.94	1/2	1,221.13	1/2	1,609.31	1/2	1,997.50	1/2	2,385.69	1/2	2,773.87	1/2	3,162.06	1/2	3,550.23
3/4	65.36	3/4	453.22	3/4	841.03	3/4	1,229.22	3/4	1,617.40	3/4	2,005.59	3/4	2,393.77	3/4	2,781.96	3/4	3,170.14	3/4	3,558.31
2	73.15	2	461.31	2	849.12	2	1,237.30	2	1,625.49	2	2,013.67	2	2,401.86	2	2,790.05	2	3,178.23	2	3,566.40
1/4	81.24	1/4	469.40	1/4	857.21	1/4	1,245.39	1/4	1,633.58	1/4	2,021.76	1/4	2,409.95	1/4	2,798.13	1/4	3,186.32	1/4	3,574.49
1/2	89.33	1/2	477.48	1/2	865.29	1/2	1,253.48	1/2	1,641.66	1/2	2,029.85	1/2	2,418.03	1/2	2,806.22	1/2	3,194.41	1/2	3,582.57
3/4	97.41	3/4	485.57	3/4	873.38	3/4	1,261.57	3/4	1,649.75	3/4	2,037.94	3/4	2,426.12	3/4	2,814.31	3/4	3,202.49	3/4	3,590.66
3	105.50	3	493.66	3	881.47	3	1,269.65	3	1,657.84	3	2,046.02	3	2,434.21	3	2,822.39	3	3,210.58	3	3,598.74
1/4	113.59	1/4	501.74	1/4	889.55	1/4	1,277.74	1/4	1,665.93	1/4	2,054.11	1/4	2,442.30	1/4	2,830.48	1/4	3,218.67	1/4	3,606.83
1/2	121.67	1/2	509.83	1/2	897.64	1/2	1,285.83	1/2	1,674.01	1/2	2,062.20	1/2	2,450.38	1/2	2,838.57	1/2	3,226.75	1/2	3,614.92
3/4	129.76	3/4	517.92	3/4	905.73	3/4	1,293.91	3/4	1,682.10	3/4	2,070.29	3/4	2,458.47	3/4	2,846.66	3/4	3,234.84	3/4	3,623.00
4	137.85	4	526.00	4	913.82	4	1,302.00	4	1,690.19	4	2,078.37	4	2,466.56	4	2,854.74	4	3,242.93	4	3,631.09
1/4	145.93	1/4	534.09	1/4	921.90	1/4	1,310.09	1/4	1,698.27	1/4	2,086.46	1/4	2,474.65	1/4	2,862.83	1/4	3,251.02	1/4	3,639.17
1/2	154.02	1/2	542.18	1/2	929.99	1/2	1,318.18	1/2	1,706.36	1/2	2,094.55	1/2	2,482.73	1/2	2,870.92	1/2	3,259.10	1/2	3,647.26
3/4	162.11	3/4	550.26	3/4	938.08	3/4	1,326.26	3/4	1,714.45	3/4	2,102.63	3/4	2,490.82	3/4	2,879.01	3/4	3,267.19	3/4	3,655.35
5	170.19	5	558.35	5	946.16	5	1,334.35	5	1,722.54	5	2,110.72	5	2,498.91	5	2,887.09	5	3,275.28	5	3,663.43
1/4	178.28	1/4	566.43	1/4	954.25	1/4	1,342.44	1/4	1,730.62	1/4	2,118.81	1/4	2,506.99	1/4	2,895.18	1/4	3,283.37	1/4	3,671.52
1/2	186.37	1/2	574.50	1/2	962.34	1/2	1,350.52	1/2	1,738.71	1/2	2,126.90	1/2	2,515.08	1/2	2,903.27	1/2	3,291.45	1/2	3,679.61
3/4	194.45	3/4	582.58	3/4	970.43	3/4	1,358.61	3/4	1,746.80	3/4	2,134.98	3/4	2,523.17	3/4	2,911.35	3/4	3,299.54	3/4	3,687.69
6	202.54	6	590.66	6	978.51	6	1,366.70	6	1,754.88	6	2,143.07	6	2,531.26	6	2,919.44	6	3,307.63	6	3,695.78
1/4	210.63	1/4	598.73	1/4	986.60	1/4	1,374.79	1/4	1,762.97	1/4	2,151.16	1/4	2,539.34	1/4	2,927.53	1/4	3,315.71	1/4	3,703.86
1/2	218.71	1/2	606.81	1/2	994.69	1/2	1,382.87	1/2	1,771.06	1/2	2,159.24	1/2	2,547.43	1/2	2,935.62	1/2	3,323.80	1/2	3,711.95
3/4	226.80	3/4	614.89	3/4	1,002.77	3/4	1,390.96	3/4	1,779.15	3/4	2,167.33	3/4	2,555.52	3/4	2,943.70	3/4	3,331.89	3/4	3,720.04
7	234.89	7	622.96	7	1,010.86	7	1,399.05	7	1,787.23	7	2,175.42	7	2,563.60	7	2,951.79	7	3,339.98	7	3,728.12
1/4	242.97	1/4	631.04	1/4	1,018.95	1/4	1,407.13	1/4	1,795.32	1/4	2,183.51	1/4	2,571.69	1/4	2,959.88	1/4	3,348.06	1/4	3,736.21
1/2	251.06	1/2	639.11	1/2	1,027.04	1/2	1,415.22	1/2	1,803.41	1/2	2,191.59	1/2	2,579.78	1/2	2,967.96	1/2	3,356.15	1/2	3,744.29
3/4	259.15	3/4	647.19	3/4	1,035.12	3/4	1,423.31	3/4	1,811.49	3/4	2,199.68	3/4	2,587.87	3/4	2,976.05	3/4	3,364.24	3/4	3,752.38
8	267.23	8	655.27	8	1,043.21	8	1,431.40	8	1,819.58	8	2,207.77	8	2,595.95	8	2,984.14	8	3,372.32	8	3,760.47
1/4	275.32	1/4	663.34	1/4	1,051.30	1/4	1,439.48	1/4	1,827.67	1/4	2,215.85	1/4	2,604.04	1/4	2,992.23	1/4	3,380.41	1/4	3,768.55
1/2	283.41	1/2	671.41	1/2	1,059.39	1/2	1,447.57	1/2	1,835.76	1/2	2,223.94	1/2	2,612.13	1/2	3,000.31	1/2	3,388.50	1/2	3,776.64
3/4	291.49	3/4	679.49	3/4	1,067.47	3/4	1,455.66	3/4	1,843.84	3/4	2,232.03	3/4	2,620.21	3/4	3,008.40	3/4	3,396.59	3/4	3,784.72
9	299.58	9	687.56	9	1,075.56	9	1,463.75	9	1,851.93	9	2,240.12	9	2,628.30	9	3,016.49	9	3,404.67	9	3,792.81
1/4	307.67	1/4	695.63	1/4	1,083.65	1/4	1,471.83	1/4	1,860.02	1/4	2,248.20	1/4	2,636.39	1/4	3,024.57	1/4	3,412.76	1/4	3,800.90
1/2	315.75	1/2	703.70	1/2	1,091.73	1/2	1,479.92	1/2	1,868.11	1/2	2,256.29	1/2	2,644.48	1/2	3,032.66	1/2	3,420.85	1/2	3,808.98
3/4	323.84	3/4	711.78	3/4	1,099.82	3/4	1,488.01	3/4	1,876.19	3/4	2,264.38	3/4	2,652.56	3/4	3,040.75	3/4	3,428.93	3/4	3,817.07
10	331.92	10	719.85	10	1,107.91	10	1,496.09	10	1,884.28	10	2,272.47	10	2,660.65	10	3,048.84	10	3,437.02	10	3,825.15
1/4	340.01	1/4	727.92	1/4	1,116.00	1/4	1,504.18	1/4	1,892.37	1/4	2,280.55	1/4	2,668.74	1/4	3,056.92	1/4	3,445.11	1/4	3,833.24
1/2	348.10	1/2	736.00	1/2	1,124.08	1/2	1,512.27	1/2	1,900.45	1/2	2,288.64	1/2	2,676.83	1/2	3,065.01	1/2	3,453.19	1/2	3,841.33
3/4	356.18	3/4	744.08	3/4	1,132.17	3/4	1,520.36	3/4	1,908.54	3/4	2,296.73	3/4	2,684.91	3/4	3,073.10	3/4	3,461.28	3/4	3,849.41
11	364.27	11	752.15	11	1,140.26	11	1,528.44	11	1,916.63	11	2,304.81	11	2,693.00	11	3,081.19	11	3,469.37	11	3,857.50
1/4	372.36	1/4	760.23	1/4	1,148.34	1/4	1,536.53	1/4	1,924.72	1/4	2,312.90	1/4	2,701.09	1/4	3,089.27	1/4	3,477.45	1/4	3,865.59
1/2	380.44	1/2	768.31	1/2	1,156.43	1/2	1,544.62	1/2	1,932.80	1/2	2,320.99	1/2	2,709.17	1/2	3,097.36	1/2	3,485.54	1/2	3,873.67
3/4	388.53	3/4	776.39	3/4	1,164.52	3/4	1,552.70	3/4	1,940.89	3/4	2,329.08	3/4	2,717.26	3/4	3,105.45	3/4	3,493.62	3/4	3,881.76

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 378"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	3,889.84	0	4,277.98	0	4,666.11	0	5,053.30	0		0		0		0		0		0	
1/4	3,897.93	1/4	4,286.06	1/4	4,674.20	1/4	5,061.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,906.02	1/2	4,294.15	1/2	4,682.28	1/2	5,069.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,914.10	3/4	4,302.23	3/4	4,690.37	3/4	5,077.41	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,922.19	1	4,310.32	1	4,698.45	1	5,085.45	1		1		1		1		1		1	
1/4	3,930.27	1/4	4,318.41	1/4	4,706.54	1/4	5,093.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,938.36	1/2	4,326.49	1/2	4,714.63	1/2	5,101.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,946.45	3/4	4,334.58	3/4	4,722.71	3/4	5,109.57	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,954.53	2	4,342.67	2	4,730.80	2	5,117.61	2		2		2		2		2		2	
1/4	3,962.62	1/4	4,350.75	1/4	4,738.88	1/4	5,125.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,970.70	1/2	4,358.84	1/2	4,746.97	1/2	5,133.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.79	3/4	4,366.92	3/4	4,755.06	3/4	5,141.72	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,986.88	3	4,375.01	3	4,763.14	3	5,149.76	3		3		3		3		3		3	
1/4	3,994.96	1/4	4,383.10	1/4	4,771.23	1/4	5,157.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,003.05	1/2	4,391.18	1/2	4,779.31	1/2	5,165.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,011.14	3/4	4,399.27	3/4	4,787.40	3/4	5,173.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,019.22	4	4,407.35	4	4,795.49	4	5,181.92	4		4		4		4		4		4	
1/4	4,027.31	1/4	4,415.44	1/4	4,803.57	1/4	5,189.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,035.39	1/2	4,423.53	1/2	4,811.66	1/2	5,197.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,043.48	3/4	4,431.61	3/4	4,819.75	3/4	5,206.03	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,051.57	5	4,439.70	5	4,827.83	5	5,214.07	5		5		5		5		5		5	
1/4	4,059.65	1/4	4,447.78	1/4	4,835.92	1/4	5,222.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,067.74	1/2	4,455.87	1/2	4,844.00	1/2	5,230.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,075.82	3/4	4,463.96	3/4	4,852.09	3/4	5,238.19	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,083.91	6	4,472.04	6	4,860.18	6	5,246.23	6		6		6		6		6		6	
1/4	4,092.00	1/4	4,480.13	1/4	4,868.26	1/4	5,254.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,100.08	1/2	4,488.22	1/2	4,876.35	1/2	5,262.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,108.17	3/4	4,496.30	3/4	4,884.43	3/4	5,270.34	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,116.25	7	4,504.39	7	4,892.52	7	5,278.38	7		7		7		7		7		7	
1/4	4,124.34	1/4	4,512.47	1/4	4,900.56	1/4	5,286.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,132.43	1/2	4,520.56	1/2	4,908.60	1/2	5,294.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,140.51	3/4	4,528.65	3/4	4,916.64	3/4	5,302.24	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,148.60	8	4,536.73	8	4,924.68	8	5,310.19	8		8		8		8		8		8	
1/4	4,156.68	1/4	4,544.82	1/4	4,932.71	1/4	5,317.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,164.77	1/2	4,552.90	1/2	4,940.75	1/2	5,325.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,172.86	3/4	4,560.99	3/4	4,948.79	3/4	5,332.81	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,180.94	9	4,569.08	9	4,956.83	9	5,340.36	9		9		9		9		9		9	
1/4	4,189.03	1/4	4,577.16	1/4	4,964.87	1/4	5,346.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,197.12	1/2	4,585.25	1/2	4,972.91	1/2	5,352.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,205.20	3/4	4,593.33	3/4	4,980.95	3/4	5,358.70	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,213.29	10	4,601.42	10	4,988.99	10		10		10		10		10		10		10	
1/4	4,221.37	1/4	4,609.51	1/4	4,997.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,229.46	1/2	4,617.59	1/2	5,005.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,237.55	3/4	4,625.68	3/4	5,013.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,245.63	11	4,633.76	11	5,021.14	11		11		11		11		11		11		11	
1/4	4,253.72	1/4	4,641.85	1/4	5,029.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,261.80	1/2	4,649.94	1/2	5,037.22	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,269.89	3/4	4,658.02	3/4	5,045.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 378"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	17.57	0	368.84	0	720.48	0	1,076.47	0	1,437.21	0	1,797.76	0	2,157.79	0	2,518.69	0	2,879.60	0	3,240.14
1/4	22.94	1/4	376.36	1/4	727.71	1/4	1,083.99	1/4	1,444.73	1/4	1,805.26	1/4	2,165.31	1/4	2,526.21	1/4	2,887.11	1/4	3,247.66
1/2	28.31	1/2	383.88	1/2	734.94	1/2	1,091.50	1/2	1,452.25	1/2	1,812.75	1/2	2,172.83	1/2	2,533.73	1/2	2,894.62	1/2	3,255.18
3/4	33.68	3/4	391.40	3/4	742.17	3/4	1,099.02	3/4	1,459.76	3/4	1,820.25	3/4	2,180.35	3/4	2,541.25	3/4	2,902.13	3/4	3,262.70
1	39.05	1	398.92	1	749.40	1	1,106.53	1	1,467.28	1	1,827.75	1	2,187.87	1	2,548.77	1	2,909.64	1	3,270.22
1/4	46.30	1/4	406.44	1/4	756.64	1/4	1,114.05	1/4	1,474.79	1/4	1,835.24	1/4	2,195.39	1/4	2,556.29	1/4	2,917.15	1/4	3,277.73
1/2	53.55	1/2	413.96	1/2	763.88	1/2	1,121.56	1/2	1,482.31	1/2	1,842.74	1/2	2,202.90	1/2	2,566.81	1/2	2,924.67	1/2	3,285.25
3/4	60.80	3/4	421.48	3/4	771.12	3/4	1,129.08	3/4	1,489.82	3/4	1,850.23	3/4	2,210.42	3/4	2,571.33	3/4	2,932.18	3/4	3,292.77
2	68.05	2	429.00	2	778.36	2	1,136.59	2	1,497.34	2	1,857.73	2	2,217.94	2	2,578.84	2	2,939.69	2	3,300.29
1/4	75.57	1/4	436.52	1/4	785.59	1/4	1,144.11	1/4	1,504.85	1/4	1,865.23	1/4	2,225.46	1/4	2,586.36	1/4	2,947.20	1/4	3,307.81
1/2	83.09	1/2	444.04	1/2	792.82	1/2	1,151.63	1/2	1,512.37	1/2	1,872.72	1/2	2,232.98	1/2	2,593.88	1/2	2,954.71	1/2	3,315.32
3/4	90.61	3/4	451.56	3/4	800.05	3/4	1,159.14	3/4	1,519.89	3/4	1,880.22	3/4	2,240.50	3/4	2,601.40	3/4	2,962.22	3/4	3,322.84
3	98.13	3	459.08	3	807.27	3	1,166.66	3	1,527.40	3	1,887.71	3	2,248.02	3	2,608.92	3	2,969.73	3	3,330.36
1/4	105.65	1/4	466.60	1/4	814.50	1/4	1,174.17	1/4	1,534.92	1/4	1,895.21	1/4	2,255.54	1/4	2,616.44	1/4	2,977.25	1/4	3,337.88
1/2	113.17	1/2	474.12	1/2	821.73	1/2	1,181.69	1/2	1,542.43	1/2	1,902.70	1/2	2,263.05	1/2	2,623.96	1/2	2,984.76	1/2	3,345.40
3/4	120.69	3/4	481.64	3/4	828.96	3/4	1,189.20	3/4	1,549.95	3/4	1,910.20	3/4	2,270.57	3/4	2,631.48	3/4	2,992.27	3/4	3,352.91
4	128.21	4	489.16	4	836.19	4	1,196.72	4	1,557.46	4	1,917.70	4	2,278.09	4	2,638.99	4	2,999.78	4	3,360.43
1/4	135.73	1/4	496.39	1/4	843.70	1/4	1,204.23	1/4	1,564.98	1/4	1,925.19	1/4	2,285.61	1/4	2,646.51	1/4	3,007.29	1/4	3,367.95
1/2	143.25	1/2	503.63	1/2	851.20	1/2	1,211.75	1/2	1,572.49	1/2	1,932.69	1/2	2,293.13	1/2	2,654.03	1/2	3,014.80	1/2	3,375.47
3/4	150.77	3/4	510.87	3/4	858.71	3/4	1,219.27	3/4	1,580.01	3/4	1,940.18	3/4	2,300.65	3/4	2,661.55	3/4	3,022.31	3/4	3,382.99
5	158.29	5	518.11	5	866.22	5	1,226.78	5	1,587.52	5	1,947.68	5	2,308.17	5	2,669.07	5	3,029.83	5	3,390.50
1/4	165.81	1/4	525.34	1/4	873.72	1/4	1,234.30	1/4	1,595.04	1/4	1,955.17	1/4	2,315.69	1/4	2,676.59	1/4	3,037.34	1/4	3,396.88
1/2	173.33	1/2	532.57	1/2	881.23	1/2	1,241.81	1/2	1,602.56	1/2	1,962.67	1/2	2,323.21	1/2	2,684.11	1/2	3,044.85	1/2	3,403.26
3/4	180.85	3/4	539.80	3/4	888.74	3/4	1,249.33	3/4	1,610.07	3/4	1,970.17	3/4	2,330.72	3/4	2,691.63	3/4	3,052.36	3/4	3,409.63
6	188.37	6	547.02	6	896.24	6	1,256.84	6	1,617.59	6	1,977.66	6	2,338.24	6	2,699.15	6	3,059.87	6	3,416.01
1/4	195.89	1/4	554.25	1/4	903.75	1/4	1,264.36	1/4	1,625.10	1/4	1,985.16	1/4	2,345.76	1/4	2,706.66	1/4	3,067.38	1/4	3,422.38
1/2	203.41	1/2	561.48	1/2	911.26	1/2	1,271.87	1/2	1,632.62	1/2	1,992.65	1/2	2,353.28	1/2	2,714.18	1/2	3,074.90	1/2	3,428.76
3/4	210.93	3/4	568.71	3/4	918.76	3/4	1,279.39	3/4	1,640.13	3/4	2,000.15	3/4	2,360.80	3/4	2,721.70	3/4	3,082.41	3/4	3,435.13
7	218.45	7	575.94	7	926.27	7	1,286.90	7	1,647.65	7	2,007.65	7	2,368.32	7	2,729.22	7	3,089.92	7	3,441.51
1/4	225.97	1/4	583.17	1/4	933.78	1/4	1,294.42	1/4	1,655.16	1/4	2,015.14	1/4	2,375.84	1/4	2,736.74	1/4	3,097.43	1/4	3,447.88
1/2	233.49	1/2	590.40	1/2	941.28	1/2	1,301.94	1/2	1,662.68	1/2	2,022.64	1/2	2,383.36	1/2	2,744.26	1/2	3,104.94	1/2	3,454.26
3/4	241.01	3/4	597.63	3/4	948.79	3/4	1,309.45	3/4	1,670.20	3/4	2,030.13	3/4	2,390.87	3/4	2,751.78	3/4	3,112.45	3/4	3,460.63
8	248.53	8	604.86	8	956.29	8	1,316.97	8	1,677.71	8	2,037.63	8	2,398.39	8	2,759.30	8	3,119.96	8	3,467.01
1/4	256.05	1/4	612.08	1/4	963.80	1/4	1,324.48	1/4	1,685.23	1/4	2,045.12	1/4	2,405.91	1/4	2,766.81	1/4	3,127.48	1/4	3,473.39
1/2	263.57	1/2	619.31	1/2	971.31	1/2	1,332.00	1/2	1,692.74	1/2	2,052.62	1/2	2,413.43	1/2	2,774.33	1/2	3,134.99	1/2	3,479.76
3/4	271.09	3/4	626.53	3/4	978.81	3/4	1,339.51	3/4	1,700.26	3/4	2,060.12	3/4	2,420.95	3/4	2,781.85	3/4	3,142.50	3/4	3,486.14
9	278.60	9	633.75	9	986.32	9	1,347.03	9	1,707.77	9	2,067.61	9	2,428.47	9	2,789.37	9	3,150.01	9	3,492.51
1/4	286.12	1/4	640.98	1/4	993.83	1/4	1,354.54	1/4	1,715.28	1/4	2,075.12	1/4	2,435.99	1/4	2,796.89	1/4	3,157.52	1/4	3,498.89
1/2	293.64	1/2	648.20	1/2	1,001.33	1/2	1,362.06	1/2	1,722.78	1/2	2,082.63	1/2	2,443.51	1/2	2,804.41	1/2	3,165.03	1/2	3,505.26
3/4	301.16	3/4	655.43	3/4	1,008.84	3/4	1,369.58	3/4	1,730.29	3/4	2,090.13	3/4	2,451.02	3/4	2,811.93	3/4	3,172.54	3/4	3,511.64
10	308.68	10	662.65	10	1,016.35	10	1,377.09	10	1,737.80	10	2,097.64	10	2,458.54	10	2,819.45	10	3,180.06	10	3,518.01
1/4	316.20	1/4	669.88	1/4	1,023.86	1/4	1,384.61	1/4	1,745.29	1/4	2,105.16	1/4	2,466.06	1/4	2,826.96	1/4	3,187.57	1/4	3,524.39
1/2	323.72	1/2	677.11	1/2	1,031.38	1/2	1,392.12	1/2	1,752.79	1/2	2,112.68	1/2	2,473.58	1/2	2,834.48	1/2	3,195.08	1/2	3,530.77
3/4	331.24	3/4	684.34	3/4	1,038.89	3/4	1,399.64	3/4	1,760.28	3/4	2,120.20	3/4	2,481.10	3/4	2,842.00	3/4	3,202.59	3/4	3,537.14
11	338.76	11	691.57	11	1,046.41	11	1,407.15	11	1,767.78	11	2,127.72	11	2,488.62	11	2,849.52	11	3,210.10	11	3,543.52
1/4	346.28	1/4	698.80	1/4	1,053.92	1/4	1,414.67	1/4	1,775.28	1/4	2,135.24	1/4	2,496.14	1/4	2,857.04	1/4	3,217.61	1/4	3,549.89
1/2	353.80	1/2	706.03	1/2	1,061.44	1/2	1,422.18	1/2	1,782.77	1/2	2,142.75	1/2	2,503.66	1/2	2,864.56	1/2	3,225.12	1/2	3,556.27
3/4	361.32	3/4	713.26	3/4	1,068.96	3/4	1,429.70	3/4	1,790.27	3/4	2,150.27	3/4	2,511.18	3/4	2,872.08	3/4	3,232.63	3/4	3,562.64

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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BARGE "EMS 378"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,569.02	0	3,875.04	0	4,181.07	0	4,486.36	0		0		0		0		0		0	
1/4	3,575.39	1/4	3,881.42	1/4	4,187.44	1/4	4,492.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,581.77	1/2	3,887.79	1/2	4,193.82	1/2	4,499.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,588.14	3/4	3,894.17	3/4	4,200.19	3/4	4,505.38	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,594.52	1	3,900.54	1	4,206.57	1	4,511.72	1		1		1		1		1		1	
1/4	3,600.90	1/4	3,906.92	1/4	4,212.94	1/4	4,518.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,607.27	1/2	3,913.30	1/2	4,219.32	1/2	4,524.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,613.65	3/4	3,919.67	3/4	4,225.69	3/4	4,530.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,620.02	2	3,926.05	2	4,232.07	2	4,537.07	2		2		2		2		2		2	
1/4	3,626.40	1/4	3,932.42	1/4	4,238.45	1/4	4,543.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,632.77	1/2	3,938.80	1/2	4,244.82	1/2	4,549.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,639.15	3/4	3,945.17	3/4	4,251.20	3/4	4,556.09	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,645.52	3	3,951.55	3	4,257.57	3	4,562.43	3		3		3		3		3		3	
1/4	3,651.90	1/4	3,957.92	1/4	4,263.95	1/4	4,568.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.28	1/2	3,964.30	1/2	4,270.32	1/2	4,575.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,664.65	3/4	3,970.67	3/4	4,276.70	3/4	4,581.45	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,671.03	4	3,977.05	4	4,283.07	4	4,587.78	4		4		4		4		4		4	
1/4	3,677.40	1/4	3,983.43	1/4	4,289.45	1/4	4,594.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.78	1/2	3,989.80	1/2	4,295.83	1/2	4,600.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,690.15	3/4	3,996.18	3/4	4,302.20	3/4	4,606.80	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,696.53	5	4,002.55	5	4,308.58	5	4,613.14	5		5		5		5		5		5	
1/4	3,702.90	1/4	4,008.93	1/4	4,314.95	1/4	4,619.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.28	1/2	4,015.30	1/2	4,321.33	1/2	4,625.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.65	3/4	4,021.68	3/4	4,327.70	3/4	4,632.16	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,722.03	6	4,028.05	6	4,334.08	6	4,638.50	6		6		6		6		6		6	
1/4	3,728.41	1/4	4,034.43	1/4	4,340.45	1/4	4,644.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,734.78	1/2	4,040.81	1/2	4,346.83	1/2	4,651.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.16	3/4	4,047.18	3/4	4,353.21	3/4	4,657.51	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,747.53	7	4,053.56	7	4,359.58	7	4,663.85	7		7		7		7		7		7	
1/4	3,753.91	1/4	4,059.93	1/4	4,365.92	1/4	4,671.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.28	1/2	4,066.31	1/2	4,372.26	1/2	4,678.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,766.66	3/4	4,072.68	3/4	4,378.60	3/4	4,686.04	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,773.03	8	4,079.06	8	4,384.94	8	4,693.43	8		8		8		8		8		8	
1/4	3,779.41	1/4	4,085.43	1/4	4,391.28	1/4	4,700.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,785.79	1/2	4,091.81	1/2	4,397.61	1/2	4,707.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,792.16	3/4	4,098.18	3/4	4,403.95	3/4	4,714.47	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,798.54	9	4,104.56	9	4,410.29	9	4,721.48	9		9		9		9		9		9	
1/4	3,804.91	1/4	4,110.94	1/4	4,416.63	1/4	4,727.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.29	1/2	4,117.31	1/2	4,422.97	1/2	4,732.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,817.66	3/4	4,123.69	3/4	4,429.31	3/4	4,738.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,824.04	10	4,130.06	10	4,435.65	10		10		10		10		10		10		10	
1/4	3,830.41	1/4	4,136.44	1/4	4,441.99	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,836.79	1/2	4,142.81	1/2	4,448.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,843.16	3/4	4,149.19	3/4	4,454.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,849.54	11	4,155.56	11	4,461.00	11		11		11		11		11		11		11	
1/4	3,855.92	1/4	4,161.94	1/4	4,467.34	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,862.29	1/2	4,168.32	1/2	4,473.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,868.67	3/4	4,174.69	3/4	4,480.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 378"

3 STBD INNAGE 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	17.58	0	368.59	0	721.72	0	1,078.65	0	1,439.17	0	1,798.95	0	2,156.70	0	2,517.08	0	2,877.65	0	3,237.90
1/4	22.95	1/4	376.11	1/4	729.00	1/4	1,086.16	1/4	1,446.68	1/4	1,806.39	1/4	2,164.22	1/4	2,524.59	1/4	2,885.16	1/4	3,245.41
1/2	28.33	1/2	383.62	1/2	736.28	1/2	1,093.67	1/2	1,454.19	1/2	1,813.83	1/2	2,171.73	1/2	2,532.09	1/2	2,892.66	1/2	3,252.93
3/4	33.70	3/4	391.13	3/4	743.56	3/4	1,101.18	3/4	1,461.70	3/4	1,821.26	3/4	2,179.24	3/4	2,539.60	3/4	2,900.17	3/4	3,260.44
1	39.08	1	398.65	1	750.84	1	1,108.69	1	1,469.21	1	1,828.70	1	2,186.76	1	2,547.10	1	2,907.68	1	3,267.95
1/4	46.32	1/4	406.16	1/4	758.13	1/4	1,116.20	1/4	1,476.72	1/4	1,836.14	1/4	2,194.27	1/4	2,554.61	1/4	2,915.18	1/4	3,275.46
1/2	53.57	1/2	413.67	1/2	765.42	1/2	1,123.71	1/2	1,484.23	1/2	1,843.57	1/2	2,201.79	1/2	2,562.12	1/2	2,922.69	1/2	3,282.97
3/4	60.81	3/4	421.19	3/4	772.70	3/4	1,131.23	3/4	1,491.74	3/4	1,851.01	3/4	2,209.30	3/4	2,569.64	3/4	2,930.19	3/4	3,290.49
2	68.06	2	428.70	2	779.99	2	1,138.74	2	1,499.25	2	1,858.45	2	2,216.81	2	2,577.15	2	2,937.70	2	3,298.00
1/4	75.57	1/4	436.21	1/4	787.28	1/4	1,146.25	1/4	1,506.77	1/4	1,865.88	1/4	2,224.33	1/4	2,584.66	1/4	2,945.20	1/4	3,305.51
1/2	83.08	1/2	443.73	1/2	794.57	1/2	1,153.76	1/2	1,514.28	1/2	1,873.32	1/2	2,231.84	1/2	2,592.17	1/2	2,952.71	1/2	3,313.02
3/4	90.60	3/4	451.24	3/4	801.86	3/4	1,161.27	3/4	1,521.79	3/4	1,880.76	3/4	2,239.36	3/4	2,599.69	3/4	2,960.21	3/4	3,320.53
3	98.11	3	458.75	3	809.15	3	1,168.78	3	1,529.30	3	1,888.20	3	2,246.87	3	2,607.20	3	2,967.72	3	3,328.04
1/4	105.62	1/4	466.27	1/4	816.44	1/4	1,176.29	1/4	1,536.81	1/4	1,895.63	1/4	2,254.39	1/4	2,614.71	1/4	2,975.22	1/4	3,335.56
1/2	113.14	1/2	473.78	1/2	823.73	1/2	1,183.80	1/2	1,544.32	1/2	1,903.07	1/2	2,261.90	1/2	2,622.23	1/2	2,982.73	1/2	3,343.07
3/4	120.65	3/4	481.29	3/4	831.02	3/4	1,191.31	3/4	1,551.83	3/4	1,910.51	3/4	2,269.41	3/4	2,629.74	3/4	2,990.23	3/4	3,350.58
4	128.16	4	488.81	4	838.30	4	1,198.82	4	1,559.34	4	1,917.94	4	2,276.93	4	2,637.25	4	2,997.74	4	3,358.09
1/4	135.68	1/4	496.10	1/4	845.81	1/4	1,206.33	1/4	1,566.85	1/4	1,925.38	1/4	2,284.44	1/4	2,644.76	1/4	3,005.25	1/4	3,365.60
1/2	143.19	1/2	503.38	1/2	853.33	1/2	1,213.84	1/2	1,574.36	1/2	1,932.82	1/2	2,291.96	1/2	2,652.28	1/2	3,012.75	1/2	3,373.11
3/4	150.70	3/4	510.67	3/4	860.84	3/4	1,221.35	3/4	1,581.87	3/4	1,940.26	3/4	2,299.47	3/4	2,659.79	3/4	3,020.26	3/4	3,380.63
5	158.22	5	517.96	5	868.35	5	1,228.87	5	1,589.38	5	1,947.69	5	2,306.98	5	2,667.30	5	3,027.76	5	3,388.14
1/4	165.73	1/4	525.24	1/4	875.86	1/4	1,236.38	1/4	1,596.89	1/4	1,955.13	1/4	2,314.49	1/4	2,674.81	1/4	3,035.27	1/4	3,394.52
1/2	173.24	1/2	532.52	1/2	883.37	1/2	1,243.89	1/2	1,604.41	1/2	1,962.57	1/2	2,321.99	1/2	2,682.33	1/2	3,042.77	1/2	3,400.90
3/4	180.76	3/4	539.80	3/4	890.88	3/4	1,251.40	3/4	1,611.92	3/4	1,970.00	3/4	2,329.49	3/4	2,689.84	3/4	3,050.28	3/4	3,407.28
6	188.27	6	547.08	6	898.39	6	1,258.91	6	1,619.43	6	1,977.44	6	2,337.00	6	2,697.35	6	3,057.78	6	3,413.66
1/4	195.78	1/4	554.35	1/4	905.90	1/4	1,266.42	1/4	1,626.94	1/4	1,984.88	1/4	2,344.50	1/4	2,704.86	1/4	3,065.29	1/4	3,420.04
1/2	203.30	1/2	561.63	1/2	913.41	1/2	1,273.93	1/2	1,634.45	1/2	1,992.32	1/2	2,352.01	1/2	2,712.38	1/2	3,072.79	1/2	3,426.42
3/4	210.81	3/4	568.91	3/4	920.92	3/4	1,281.44	3/4	1,641.96	3/4	1,999.75	3/4	2,359.51	3/4	2,719.89	3/4	3,080.30	3/4	3,432.80
7	218.32	7	576.19	7	928.43	7	1,288.95	7	1,649.47	7	2,007.19	7	2,367.01	7	2,727.40	7	3,087.80	7	3,439.18
1/4	225.84	1/4	583.47	1/4	935.94	1/4	1,296.46	1/4	1,656.98	1/4	2,014.63	1/4	2,374.52	1/4	2,734.91	1/4	3,095.31	1/4	3,445.56
1/2	233.35	1/2	590.75	1/2	943.46	1/2	1,303.97	1/2	1,664.49	1/2	2,022.06	1/2	2,382.02	1/2	2,742.43	1/2	3,102.82	1/2	3,451.94
3/4	240.86	3/4	598.03	3/4	950.97	3/4	1,311.48	3/4	1,672.00	3/4	2,029.50	3/4	2,389.52	3/4	2,749.94	3/4	3,110.32	3/4	3,458.32
8	248.38	8	605.30	8	958.48	8	1,319.00	8	1,679.51	8	2,036.94	8	2,397.03	8	2,757.45	8	3,117.83	8	3,464.70
1/4	255.89	1/4	612.58	1/4	965.99	1/4	1,326.51	1/4	1,687.02	1/4	2,044.38	1/4	2,404.53	1/4	2,764.96	1/4	3,125.33	1/4	3,471.08
1/2	263.40	1/2	619.85	1/2	973.50	1/2	1,334.02	1/2	1,694.54	1/2	2,051.81	1/2	2,412.03	1/2	2,772.48	1/2	3,132.84	1/2	3,477.46
3/4	270.92	3/4	627.13	3/4	981.01	3/4	1,341.53	3/4	1,702.05	3/4	2,059.25	3/4	2,419.54	3/4	2,779.99	3/4	3,140.34	3/4	3,483.84
9	278.43	9	634.40	9	988.52	9	1,349.04	9	1,709.56	9	2,066.69	9	2,427.04	9	2,787.50	9	3,147.85	9	3,490.22
1/4	285.94	1/4	641.67	1/4	996.03	1/4	1,356.55	1/4	1,717.03	1/4	2,074.16	1/4	2,434.55	1/4	2,795.02	1/4	3,155.35	1/4	3,496.60
1/2	293.46	1/2	648.95	1/2	1,003.54	1/2	1,364.06	1/2	1,724.51	1/2	2,081.64	1/2	2,442.05	1/2	2,802.53	1/2	3,162.86	1/2	3,502.98
3/4	300.97	3/4	656.22	3/4	1,011.05	3/4	1,371.57	3/4	1,731.98	3/4	2,089.11	3/4	2,449.55	3/4	2,810.04	3/4	3,170.36	3/4	3,509.36
10	308.48	10	663.50	10	1,018.56	10	1,379.08	10	1,739.45	10	2,096.59	10	2,457.06	10	2,817.55	10	3,177.87	10	3,515.74
1/4	316.00	1/4	670.77	1/4	1,026.07	1/4	1,386.59	1/4	1,746.89	1/4	2,104.10	1/4	2,464.56	1/4	2,825.07	1/4	3,185.37	1/4	3,522.12
1/2	323.51	1/2	678.05	1/2	1,033.58	1/2	1,394.10	1/2	1,754.33	1/2	2,111.62	1/2	2,472.06	1/2	2,832.58	1/2	3,192.88	1/2	3,528.50
3/4	331.02	3/4	685.33	3/4	1,041.10	3/4	1,401.61	3/4	1,761.77	3/4	2,119.13	3/4	2,479.57	3/4	2,840.09	3/4	3,200.38	3/4	3,534.88
11	338.54	11	692.61	11	1,048.61	11	1,409.12	11	1,769.20	11	2,126.65	11	2,487.07	11	2,847.60	11	3,207.89	11	3,541.26
1/4	346.05	1/4	699.89	1/4	1,056.12	1/4	1,416.64	1/4	1,776.64	1/4	2,134.16	1/4	2,494.57	1/4	2,855.12	1/4	3,215.39	1/4	3,547.64
1/2	353.56	1/2	707.17	1/2	1,063.63	1/2	1,424.15	1/2	1,784.08	1/2	2,141.67	1/2	2,502.08	1/2	2,862.63	1/2	3,222.89	1/2	3,554.02
3/4	361.08	3/4	714.45	3/4	1,071.14	3/4	1,431.66	3/4	1,791.51	3/4	2,149.19	3/4	2,509.58	3/4	2,870.14	3/4	3,230.40	3/4	3,560.40

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 378"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE 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	3,566.78	0	3,873.02	0	4,179.26	0	4,484.77	0		0		0		0		0		0	
1/4	3,573.16	1/4	3,879.40	1/4	4,185.64	1/4	4,491.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,579.54	1/2	3,885.78	1/2	4,192.02	1/2	4,497.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,585.92	3/4	3,892.16	3/4	4,198.40	3/4	4,503.80	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,592.30	1	3,898.54	1	4,204.78	1	4,510.14	1		1		1		1		1		1	
1/4	3,598.68	1/4	3,904.92	1/4	4,211.16	1/4	4,516.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,605.06	1/2	3,911.30	1/2	4,217.54	1/2	4,522.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,611.44	3/4	3,917.68	3/4	4,223.92	3/4	4,529.17	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,617.82	2	3,924.06	2	4,230.30	2	4,535.51	2		2		2		2		2		2	
1/4	3,624.20	1/4	3,930.44	1/4	4,236.68	1/4	4,541.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,630.58	1/2	3,936.82	1/2	4,243.06	1/2	4,548.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.96	3/4	3,943.20	3/4	4,249.44	3/4	4,554.54	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,643.34	3	3,949.58	3	4,255.82	3	4,560.89	3		3		3		3		3		3	
1/4	3,649.72	1/4	3,955.96	1/4	4,262.20	1/4	4,567.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,656.10	1/2	3,962.34	1/2	4,268.58	1/2	4,573.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.48	3/4	3,968.72	3/4	4,274.96	3/4	4,579.92	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,668.86	4	3,975.10	4	4,281.34	4	4,586.26	4		4		4		4		4		4	
1/4	3,675.24	1/4	3,981.48	1/4	4,287.72	1/4	4,592.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.62	1/2	3,987.86	1/2	4,294.10	1/2	4,598.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,688.00	3/4	3,994.24	3/4	4,300.48	3/4	4,605.29	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,694.38	5	4,000.62	5	4,306.86	5	4,611.63	5		5		5		5		5		5	
1/4	3,700.76	1/4	4,007.00	1/4	4,313.24	1/4	4,617.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.14	1/2	4,013.38	1/2	4,319.62	1/2	4,624.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.52	3/4	4,019.76	3/4	4,326.00	3/4	4,630.66	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,719.90	6	4,026.14	6	4,332.38	6	4,637.01	6		6		6		6		6		6	
1/4	3,726.28	1/4	4,032.52	1/4	4,338.76	1/4	4,643.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,732.66	1/2	4,038.90	1/2	4,345.14	1/2	4,649.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,739.04	3/4	4,045.28	3/4	4,351.52	3/4	4,656.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,745.42	7	4,051.66	7	4,357.90	7	4,662.38	7		7		7		7		7		7	
1/4	3,751.80	1/4	4,058.04	1/4	4,364.24	1/4	4,669.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,758.18	1/2	4,064.42	1/2	4,370.58	1/2	4,677.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,764.56	3/4	4,070.80	3/4	4,376.93	3/4	4,684.58	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,770.94	8	4,077.18	8	4,383.27	8	4,691.99	8		8		8		8		8		8	
1/4	3,777.32	1/4	4,083.56	1/4	4,389.61	1/4	4,699.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,783.70	1/2	4,089.94	1/2	4,395.96	1/2	4,706.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,790.08	3/4	4,096.32	3/4	4,402.30	3/4	4,713.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,796.46	9	4,102.70	9	4,408.64	9	4,720.05	9		9		9		9		9		9	
1/4	3,802.84	1/4	4,109.08	1/4	4,414.99	1/4	4,725.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,809.22	1/2	4,115.46	1/2	4,421.33	1/2	4,731.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,815.60	3/4	4,121.84	3/4	4,427.67	3/4	4,737.12	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,821.98	10	4,128.22	10	4,434.02	10		10		10		10		10		10		10	
1/4	3,828.36	1/4	4,134.60	1/4	4,440.36	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,834.74	1/2	4,140.98	1/2	4,446.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,841.12	3/4	4,147.36	3/4	4,453.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,847.50	11	4,153.74	11	4,459.39	11		11		11		11		11		11		11	
1/4	3,853.88	1/4	4,160.12	1/4	4,465.74	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,860.26	1/2	4,166.50	1/2	4,472.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,866.64	3/4	4,172.88	3/4	4,478.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

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



BARGE "EMS 378"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
2 PORT	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
2 STBD	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
3 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
3 STBD	00-4/8	- 00-4/8	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8

(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 - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

September 19, 2012

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 378"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
							4,249.55		3,919.66		3,588.34		3,257.01		2,925.69		2,594.34		2,262.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,242.69	1/4	3,912.76	1/4	3,581.44	1/4	3,250.11	1/4	2,918.79	1/4	2,587.44	1/4	2,256.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,235.82	1/2	3,905.86	1/2	3,574.53	1/2	3,243.21	1/2	2,911.88	1/2	2,580.53	1/2	2,249.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,228.96	3/4	3,898.96	3/4	3,567.63	3/4	3,236.31	3/4	2,904.98	3/4	2,573.63	3/4	2,242.26		
1	1	1	1	1	1	1	4,222.10	1	3,892.05	1	3,560.73	1	3,229.40	1	2,898.08	1	2,566.73	1	2,235.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,215.23	1/4	3,885.15	1/4	3,553.83	1/4	3,222.50	1/4	2,891.18	1/4	2,559.82	1/4	2,228.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,208.37	1/2	3,878.25	1/2	3,546.92	1/2	3,215.60	1/2	2,884.27	1/2	2,552.92	1/2	2,221.55		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,201.51	3/4	3,871.34	3/4	3,540.02	3/4	3,208.70	3/4	2,877.37	3/4	2,546.01	3/4	2,214.64		
2	2	2	2	2	2	2	4,194.65	2	3,864.44	2	3,533.12	2	3,201.79	2	2,870.47	2	2,539.11	2	2,207.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,187.78	1/4	3,857.54	1/4	3,526.22	1/4	3,194.89	1/4	2,863.57	1/4	2,532.21	1/4	2,200.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,180.92	1/2	3,850.64	1/2	3,519.31	1/2	3,187.99	1/2	2,856.66	1/2	2,525.30	1/2	2,193.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,174.06	3/4	3,843.73	3/4	3,512.41	3/4	3,181.09	3/4	2,849.76	3/4	2,518.40	3/4	2,187.03		
3	3	3	3	3	3	3	4,167.20	3	3,836.83	3	3,505.51	3	3,174.18	3	2,842.86	3	2,511.50	3	2,180.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,160.33	1/4	3,829.93	1/4	3,498.60	1/4	3,167.28	1/4	2,835.96	1/4	2,504.59	1/4	2,173.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,153.47	1/2	3,823.03	1/2	3,491.70	1/2	3,160.38	1/2	2,829.05	1/2	2,497.69	1/2	2,166.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,146.61	3/4	3,816.12	3/4	3,484.80	3/4	3,153.47	3/4	2,822.15	3/4	2,490.79	3/4	2,159.41		
4	4	4	4	4	4	4	4,139.75	4	3,809.22	4	3,477.90	4	3,146.57	4	2,815.25	4	2,483.88	4	2,152.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,132.88	1/4	3,802.32	1/4	3,470.99	1/4	3,139.67	1/4	2,808.34	1/4	2,476.98	1/4	2,145.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,126.02	1/2	3,795.42	1/2	3,464.09	1/2	3,132.77	1/2	2,801.44	1/2	2,470.08	1/2	2,138.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,119.16	3/4	3,788.51	3/4	3,457.19	3/4	3,125.86	3/4	2,794.54	3/4	2,463.17	3/4	2,131.80		
5	5	5	5	5	5	5	4,112.30	5	3,781.61	5	3,450.29	5	3,118.96	5	2,787.64	5	2,456.27	5	2,124.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,105.43	1/4	3,774.71	1/4	3,443.38	1/4	3,112.06	1/4	2,780.73	1/4	2,449.36	1/4	2,117.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,098.57	1/2	3,767.81	1/2	3,436.48	1/2	3,105.16	1/2	2,773.83	1/2	2,442.46	1/2	2,111.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,091.71	3/4	3,760.90	3/4	3,429.58	3/4	3,098.25	3/4	2,766.93	3/4	2,435.56	3/4	2,104.18		
6	6	6	6	6	6	6	4,084.85	6	3,754.00	6	3,422.68	6	3,091.35	6	2,760.03	6	2,428.65	6	2,097.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,400.47	1/4	4,077.98	1/4	3,747.10	1/4	3,415.77	1/4	3,084.45	1/4	2,753.12	1/4	2,421.75	1/4	2,090.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,395.25	1/2	4,071.12	1/2	3,740.20	1/2	3,408.87	1/2	3,077.55	1/2	2,746.22	1/2	2,414.85	1/2	2,083.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,390.03	3/4	4,064.26	3/4	3,733.29	3/4	3,401.97	3/4	3,070.64	3/4	2,739.32	3/4	2,407.94	3/4	2,076.57
7	7	7	7	7	7	7	4,384.81	7	4,057.40	7	3,726.39	7	3,395.07	7	3,063.74	7	2,732.41	7	2,401.04	7	2,069.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,378.37	1/4	4,050.53	1/4	3,719.49	1/4	3,388.16	1/4	3,056.84	1/4	2,725.51	1/4	2,394.14	1/4	2,062.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,371.93	1/2	4,043.67	1/2	3,712.59	1/2	3,381.26	1/2	3,049.94	1/2	2,718.60	1/2	2,387.23	1/2	2,055.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,365.49	3/4	4,036.81	3/4	3,705.68	3/4	3,374.36	3/4	3,043.03	3/4	2,711.70	3/4	2,380.33	3/4	2,048.96
8	8	8	8	8	8	8	4,359.05	8	4,029.94	8	3,698.78	8	3,367.46	8	3,036.13	8	2,704.80	8	2,373.42	8	2,042.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,352.27	1/4	4,023.08	1/4	3,691.88	1/4	3,360.55	1/4	3,029.23	1/4	2,697.89	1/4	2,366.52	1/4	2,035.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,345.48	1/2	4,016.22	1/2	3,684.97	1/2	3,353.65	1/2	3,022.33	1/2	2,690.99	1/2	2,359.62	1/2	2,028.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,338.69	3/4	4,009.36	3/4	3,678.07	3/4	3,346.75	3/4	3,015.42	3/4	2,684.09	3/4	2,352.71	3/4	2,021.34
9	9	9	9	9	9	9	4,331.90	9	4,002.49	9	3,671.17	9	3,339.84	9	3,008.52	9	2,677.18	9	2,345.81	9	2,014.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,325.04	1/4	3,995.59	1/4	3,664.27	1/4	3,332.94	1/4	3,001.62	1/4	2,670.28	1/4	2,338.91	1/4	2,007.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,318.17	1/2	3,988.69	1/2	3,657.36	1/2	3,326.04	1/2	2,994.71	1/2	2,663.38	1/2	2,332.00	1/2	2,000.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,311.31	3/4	3,981.79	3/4	3,650.46	3/4	3,319.14	3/4	2,987.81	3/4	2,656.47	3/4	2,325.10	3/4	1,993.73
10	10	10	10	10	10	10	4,304.45	10	3,974.88	10	3,643.56	10	3,312.23	10	2,980.91	10	2,649.57	10	2,318.20	10	1,986.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,297.59	1/4	3,967.98	1/4	3,636.66	1/4	3,305.33	1/4	2,974.01	1/4	2,642.67	1/4	2,311.29	1/4	1,979.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,290.72	1/2	3,961.08	1/2	3,629.75	1/2	3,298.43	1/2	2,967.10	1/2	2,635.76	1/2	2,304.39	1/2	1,973.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,283.86	3/4	3,954.18	3/4	3,622.85	3/4	3,291.53	3/4	2,960.20	3/4	2,628.86	3/4	2,297.49	3/4	1,966.11
11	11	11	11	11	11	11	4,277.00	11	3,947.27	11	3,615.95	11	3,284.62	11	2,953.30	11	2,621.95	11	2,290.58	11	1,959.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.14	1/4	3,940.37	1/4	3,609.05	1/4	3,277.72	1/4	2,946.40	1/4	2,615.05	1/4	2,283.68	1/4	1,952.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,263.27	1/2	3,933.47	1/2	3,602.14	1/2	3,270.82	1/2	2,939.49	1/2	2,608.15	1/2	2,276.77	1/2	1,945.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,256.41	3/4	3,926.57	3/4	3,595.24	3/4	3,263.92	3/4	2,932.59	3/4	2,601.24	3/4	2,269.87	3/4	1,938.50

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 378"

1 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	1,931.59	0	1,600.22	0	1,268.85	0	941.99	0	635.53	0	347.24	0	78.82	0		0		0	
1/4	1,924.69	1/4	1,593.32	1/4	1,261.95	1/4	935.41	1/4	629.33	1/4	341.46	1/4	73.46	1/4	1/4	1/4		1/4	
1/2	1,917.79	1/2	1,586.41	1/2	1,255.04	1/2	928.82	1/2	623.14	1/2	335.67	1/2	68.09	1/2	1/2	1/2		1/2	
3/4	1,910.88	3/4	1,579.51	3/4	1,248.14	3/4	922.24	3/4	616.94	3/4	329.89	3/4	62.72	3/4	3/4	3/4		3/4	
1	1,903.98	1	1,572.61	1	1,241.23	1	915.65	1	610.75	1	324.11	1	57.35	1	1	1		1	
1/4	1,897.08	1/4	1,565.70	1/4	1,234.33	1/4	909.12	1/4	604.58	1/4	318.36	1/4	52.02	1/4	1/4	1/4		1/4	
1/2	1,890.17	1/2	1,558.80	1/2	1,227.43	1/2	902.58	1/2	598.42	1/2	312.62	1/2	46.69	1/2	1/2	1/2		1/2	
3/4	1,883.27	3/4	1,551.90	3/4	1,220.52	3/4	896.05	3/4	592.26	3/4	306.87	3/4	41.35	3/4	3/4	3/4		3/4	
2	1,876.37	2	1,544.99	2	1,213.62	2	889.52	2	586.10	2	301.12	2	36.02	2	2	2		2	
1/4	1,869.46	1/4	1,538.09	1/4	1,206.72	1/4	883.02	1/4	579.97	1/4	295.41	1/4	30.97	1/4	1/4	1/4		1/4	
1/2	1,862.56	1/2	1,531.19	1/2	1,199.81	1/2	876.52	1/2	573.85	1/2	289.70	1/2	25.92	1/2	1/2	1/2		1/2	
3/4	1,855.65	3/4	1,524.28	3/4	1,192.91	3/4	870.02	3/4	567.72	3/4	283.98	3/4	20.86	3/4	3/4	3/4		3/4	
3	1,848.75	3	1,517.38	3	1,186.01	3	863.52	3	561.59	3	278.27	3	15.81	3	3	3		3	
1/4	1,841.85	1/4	1,510.47	1/4	1,179.10	1/4	857.06	1/4	555.50	1/4	272.59	1/4	12.52	1/4	1/4	1/4		1/4	
1/2	1,834.94	1/2	1,503.57	1/2	1,172.20	1/2	850.59	1/2	549.41	1/2	266.91	1/2	9.23	1/2	1/2	1/2		1/2	
3/4	1,828.04	3/4	1,496.67	3/4	1,165.29	3/4	844.13	3/4	543.32	3/4	261.24	3/4	5.94	3/4	3/4	3/4		3/4	
4	1,821.14	4	1,489.76	4	1,158.39	4	837.66	4	537.22	4	255.56	4	2.65	4	4	4		4	
1/4	1,814.23	1/4	1,482.86	1/4	1,151.50	1/4	831.24	1/4	531.17	1/4	249.91	1/4		1/4	1/4	1/4		1/4	
1/2	1,807.33	1/2	1,475.96	1/2	1,144.62	1/2	824.81	1/2	525.11	1/2	244.27	1/2		1/2	1/2	1/2		1/2	
3/4	1,800.43	3/4	1,469.05	3/4	1,137.73	3/4	818.39	3/4	519.05	3/4	238.63	3/4		3/4	3/4	3/4		3/4	
5	1,793.52	5	1,462.15	5	1,130.85	5	811.96	5	512.99	5	232.98	5		5	5	5		5	
1/4	1,786.62	1/4	1,455.25	1/4	1,123.99	1/4	805.57	1/4	506.97	1/4	227.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,779.72	1/2	1,448.34	1/2	1,117.14	1/2	799.18	1/2	500.95	1/2	221.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,772.81	3/4	1,441.44	3/4	1,110.29	3/4	792.79	3/4	494.92	3/4	216.15	3/4		3/4	3/4	3/4		3/4	
6	1,765.91	6	1,434.54	6	1,103.44	6	786.40	6	488.90	6	210.55	6		6	6	6		6	
1/4	1,759.00	1/4	1,427.63	1/4	1,096.62	1/4	780.03	1/4	482.91	1/4	204.97	1/4		1/4	1/4	1/4		1/4	
1/2	1,752.10	1/2	1,420.73	1/2	1,089.80	1/2	773.67	1/2	476.92	1/2	199.40	1/2		1/2	1/2	1/2		1/2	
3/4	1,745.20	3/4	1,413.82	3/4	1,082.99	3/4	767.31	3/4	470.93	3/4	193.82	3/4		3/4	3/4	3/4		3/4	
7	1,738.29	7	1,406.92	7	1,076.17	7	760.95	7	464.94	7	188.25	7		7	7	7		7	
1/4	1,731.39	1/4	1,400.02	1/4	1,069.39	1/4	754.62	1/4	458.99	1/4	182.71	1/4		1/4	1/4	1/4		1/4	
1/2	1,724.49	1/2	1,393.11	1/2	1,062.60	1/2	748.30	1/2	453.03	1/2	177.17	1/2		1/2	1/2	1/2		1/2	
3/4	1,717.58	3/4	1,386.21	3/4	1,055.82	3/4	741.97	3/4	447.08	3/4	171.63	3/4		3/4	3/4	3/4		3/4	
8	1,710.68	8	1,379.31	8	1,049.04	8	735.65	8	441.13	8	166.09	8		8	8	8		8	
1/4	1,703.78	1/4	1,372.40	1/4	1,042.29	1/4	729.35	1/4	435.21	1/4	160.58	1/4		1/4	1/4	1/4		1/4	
1/2	1,696.87	1/2	1,365.50	1/2	1,035.54	1/2	723.06	1/2	429.29	1/2	155.07	1/2		1/2	1/2	1/2		1/2	
3/4	1,689.97	3/4	1,358.60	3/4	1,028.79	3/4	716.77	3/4	423.37	3/4	149.57	3/4		3/4	3/4	3/4		3/4	
9	1,683.06	9	1,351.69	9	1,022.05	9	710.48	9	417.45	9	144.06	9		9	9	9		9	
1/4	1,676.16	1/4	1,344.79	1/4	1,015.33	1/4	704.21	1/4	411.56	1/4	138.59	1/4		1/4	1/4	1/4		1/4	
1/2	1,669.26	1/2	1,337.88	1/2	1,008.62	1/2	697.94	1/2	405.68	1/2	133.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,662.35	3/4	1,330.98	3/4	1,001.90	3/4	691.67	3/4	399.79	3/4	127.65	3/4		3/4	3/4	3/4		3/4	
10	1,655.45	10	1,324.08	10	995.19	10	685.40	10	393.91	10	122.18	10		10	10	10		10	
1/4	1,648.55	1/4	1,317.17	1/4	988.51	1/4	679.16	1/4	388.05	1/4	116.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,641.64	1/2	1,310.27	1/2	981.83	1/2	672.92	1/2	382.20	1/2	111.31	1/2		1/2	1/2	1/2		1/2	
3/4	1,634.74	3/4	1,303.37	3/4	975.15	3/4	666.69	3/4	376.35	3/4	105.87	3/4		3/4	3/4	3/4		3/4	
11	1,627.84	11	1,296.46	11	968.47	11	660.45	11	370.50	11	100.43	11		11	11	11		11	
1/4	1,620.93	1/4	1,289.56	1/4	961.85	1/4	654.22	1/4	364.69	1/4	95.03	1/4		1/4	1/4	1/4		1/4	
1/2	1,614.03	1/2	1,282.66	1/2	955.23	1/2	647.99	1/2	358.87	1/2	89.63	1/2		1/2	1/2	1/2		1/2	
3/4	1,607.13	3/4	1,275.75	3/4	948.61	3/4	641.76	3/4	353.05	3/4	84.23	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 378"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,258.41	0	3,928.50	0	3,597.14	0	3,265.78	0	2,934.41	0	2,603.03	0	2,271.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,251.54	1/4	3,921.60	1/4	3,590.24	1/4	3,258.87	1/4	2,927.51	1/4	2,596.12	1/4	2,264.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,244.68	1/2	3,914.70	1/2	3,583.33	1/2	3,251.97	1/2	2,920.61	1/2	2,589.22	1/2	2,257.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,237.81	3/4	3,907.79	3/4	3,576.43	3/4	3,245.07	3/4	2,913.70	3/4	2,582.31	3/4	2,250.90		
1		1		1		1	4,230.95	1	3,900.89	1	3,569.53	1	3,238.16	1	2,906.80	1	2,575.41	1	2,243.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,224.09	1/4	3,893.99	1/4	3,562.62	1/4	3,231.26	1/4	2,899.90	1/4	2,568.50	1/4	2,237.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,217.22	1/2	3,887.08	1/2	3,555.72	1/2	3,224.36	1/2	2,892.99	1/2	2,561.60	1/2	2,230.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,210.36	3/4	3,880.18	3/4	3,548.82	3/4	3,217.45	3/4	2,886.09	3/4	2,554.69	3/4	2,223.28		
2		2		2		2	4,203.49	2	3,873.28	2	3,541.91	2	3,210.55	2	2,879.19	2	2,547.79	2	2,216.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.63	1/4	3,866.37	1/4	3,535.01	1/4	3,203.65	1/4	2,872.28	1/4	2,540.89	1/4	2,209.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,189.77	1/2	3,859.47	1/2	3,528.11	1/2	3,196.74	1/2	2,865.38	1/2	2,533.98	1/2	2,202.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,182.90	3/4	3,852.57	3/4	3,521.20	3/4	3,189.84	3/4	2,858.48	3/4	2,527.08	3/4	2,195.66		
3		3		3		3	4,176.04	3	3,845.66	3	3,514.30	3	3,182.94	3	2,851.57	3	2,520.17	3	2,188.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,169.17	1/4	3,838.76	1/4	3,507.40	1/4	3,176.03	1/4	2,844.67	1/4	2,513.27	1/4	2,181.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,162.31	1/2	3,831.86	1/2	3,500.49	1/2	3,169.13	1/2	2,837.77	1/2	2,506.36	1/2	2,174.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,155.45	3/4	3,824.95	3/4	3,493.59	3/4	3,162.23	3/4	2,830.86	3/4	2,499.46	3/4	2,168.04		
4		4		4		4	4,148.58	4	3,818.05	4	3,486.69	4	3,155.32	4	2,823.96	4	2,492.55	4	2,161.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,141.72	1/4	3,811.15	1/4	3,479.78	1/4	3,148.42	1/4	2,817.06	1/4	2,485.65	1/4	2,154.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,134.86	1/2	3,804.24	1/2	3,472.88	1/2	3,141.52	1/2	2,810.15	1/2	2,478.74	1/2	2,147.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,127.99	3/4	3,797.34	3/4	3,465.98	3/4	3,134.61	3/4	2,803.25	3/4	2,471.84	3/4	2,140.42		
5		5		5		5	4,121.13	5	3,790.44	5	3,459.07	5	3,127.71	5	2,796.35	5	2,464.94	5	2,133.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,114.26	1/4	3,783.53	1/4	3,452.17	1/4	3,120.81	1/4	2,789.44	1/4	2,458.03	1/4	2,126.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,107.40	1/2	3,776.63	1/2	3,445.27	1/2	3,113.90	1/2	2,782.54	1/2	2,451.13	1/2	2,119.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,100.54	3/4	3,769.73	3/4	3,438.36	3/4	3,107.00	3/4	2,775.64	3/4	2,444.22	3/4	2,112.81		
6		6		6		6	4,093.67	6	3,762.82	6	3,431.46	6	3,100.10	6	2,768.73	6	2,437.32	6	2,105.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,086.81	1/4	3,755.92	1/4	3,424.56	1/4	3,093.19	1/4	2,761.83	1/4	2,430.41	1/4	2,099.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,402.49	1/2	4,079.94	1/2	3,749.02	1/2	3,417.65	1/2	3,086.29	1/2	2,754.92	1/2	2,423.51	1/2	2,092.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,397.26	3/4	4,073.08	3/4	3,742.11	3/4	3,410.75	3/4	3,079.39	3/4	2,748.02	3/4	2,416.60	3/4	2,085.19
7		7		7		7	4,392.04	7	4,066.22	7	3,735.21	7	3,403.85	7	3,072.48	7	2,741.12	7	2,409.70	7	2,078.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,386.82	1/4	4,059.35	1/4	3,728.31	1/4	3,396.94	1/4	3,065.58	1/4	2,734.21	1/4	2,402.80	1/4	2,071.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,380.38	1/2	4,052.49	1/2	3,721.40	1/2	3,390.04	1/2	3,058.68	1/2	2,727.31	1/2	2,395.89	1/2	2,064.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,373.94	3/4	4,045.62	3/4	3,714.50	3/4	3,383.14	3/4	3,051.77	3/4	2,720.40	3/4	2,388.99	3/4	2,057.57
8		8		8		8	4,367.51	8	4,038.76	8	3,707.59	8	3,376.23	8	3,044.87	8	2,713.50	8	2,382.08	8	2,050.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,361.07	1/4	4,031.90	1/4	3,700.69	1/4	3,369.33	1/4	3,037.97	1/4	2,706.59	1/4	2,375.18	1/4	2,043.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,354.28	1/2	4,025.03	1/2	3,693.79	1/2	3,362.42	1/2	3,031.06	1/2	2,699.69	1/2	2,368.27	1/2	2,036.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,347.49	3/4	4,018.17	3/4	3,686.88	3/4	3,355.52	3/4	3,024.16	3/4	2,692.78	3/4	2,361.37	3/4	2,029.95
9		9		9		9	4,340.70	9	4,011.30	9	3,679.98	9	3,348.62	9	3,017.25	9	2,685.88	9	2,354.46	9	2,023.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,333.91	1/4	4,004.44	1/4	3,673.08	1/4	3,341.71	1/4	3,010.35	1/4	2,678.98	1/4	2,347.56	1/4	2,016.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,327.04	1/2	3,997.54	1/2	3,666.17	1/2	3,334.81	1/2	3,003.45	1/2	2,672.07	1/2	2,340.65	1/2	2,009.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,320.18	3/4	3,990.63	3/4	3,659.27	3/4	3,327.91	3/4	2,996.54	3/4	2,665.17	3/4	2,333.75	3/4	2,002.33
10		10		10		10	4,313.32	10	3,983.73	10	3,652.37	10	3,321.00	10	2,989.64	10	2,658.26	10	2,326.85	10	1,995.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.45	1/4	3,976.83	1/4	3,645.46	1/4	3,314.10	1/4	2,982.74	1/4	2,651.36	1/4	2,319.94	1/4	1,988.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,299.59	1/2	3,969.92	1/2	3,638.56	1/2	3,307.20	1/2	2,975.83	1/2	2,644.45	1/2	2,313.04	1/2	1,981.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,292.72	3/4	3,963.02	3/4	3,631.66	3/4	3,300.29	3/4	2,968.93	3/4	2,637.55	3/4	2,306.13	3/4	1,974.72
11		11		11		11	4,285.86	11	3,956.12	11	3,624.75	11	3,293.39	11	2,962.03	11	2,630.64	11	2,299.23	11	1,967.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,279.00	1/4	3,949.21	1/4	3,617.85	1/4	3,286.49	1/4	2,955.12	1/4	2,623.74	1/4	2,292.32	1/4	1,960.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,272.13	1/2	3,942.31	1/2	3,610.95	1/2	3,279.58	1/2	2,948.22	1/2	2,616.83	1/2	2,285.42	1/2	1,954.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,265.27	3/4	3,935.41	3/4	3,604.04	3/4	3,272.68	3/4	2,941.32	3/4	2,609.93	3/4	2,278.51	3/4	1,947.10

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 378"

1 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	1,940.19	0	1,608.78	0	1,277.36	0	950.10	0	641.92	0	353.15	0	84.26	0		0		0	
1/4	1,933.29	1/4	1,601.87	1/4	1,270.46	1/4	943.46	1/4	635.69	1/4	347.34	1/4	78.85	1/4	1/4	1/4		1/4	1/4
1/2	1,926.38	1/2	1,594.97	1/2	1,263.55	1/2	936.85	1/2	629.49	1/2	341.55	1/2	73.48	1/2	1/2	1/2		1/2	1/2
3/4	1,919.48	3/4	1,588.06	3/4	1,256.65	3/4	930.24	3/4	623.29	3/4	335.77	3/4	68.12	3/4	3/4	3/4		3/4	3/4
1	1,912.58	1	1,581.16	1	1,249.74	1	923.62	1	617.10	1	329.99	1	62.75	1	1	1		1	1
1/4	1,905.67	1/4	1,574.26	1/4	1,242.84	1/4	917.01	1/4	610.90	1/4	324.20	1/4	57.38	1/4	1/4	1/4		1/4	1/4
1/2	1,898.77	1/2	1,567.35	1/2	1,235.93	1/2	910.45	1/2	604.74	1/2	318.45	1/2	52.04	1/2	1/2	1/2		1/2	1/2
3/4	1,891.86	3/4	1,560.45	3/4	1,229.03	3/4	903.89	3/4	598.57	3/4	312.71	3/4	46.71	3/4	3/4	3/4		3/4	3/4
2	1,884.96	2	1,553.54	2	1,222.13	2	897.32	2	592.41	2	306.96	2	41.37	2	2	2		2	2
1/4	1,878.05	1/4	1,546.64	1/4	1,215.22	1/4	890.76	1/4	586.25	1/4	301.21	1/4	36.04	1/4	1/4	1/4		1/4	1/4
1/2	1,871.15	1/2	1,539.73	1/2	1,208.32	1/2	884.23	1/2	580.12	1/2	295.49	1/2	30.99	1/2	1/2	1/2		1/2	1/2
3/4	1,864.24	3/4	1,532.83	3/4	1,201.41	3/4	877.70	3/4	573.99	3/4	289.78	3/4	25.93	3/4	3/4	3/4		3/4	3/4
3	1,857.34	3	1,525.92	3	1,194.51	3	871.17	3	567.87	3	284.07	3	20.88	3	3	3		3	3
1/4	1,850.44	1/4	1,519.02	1/4	1,187.60	1/4	864.64	1/4	561.74	1/4	278.35	1/4	15.83	1/4	1/4	1/4		1/4	1/4
1/2	1,843.53	1/2	1,512.11	1/2	1,180.70	1/2	858.15	1/2	555.64	1/2	272.67	1/2	12.53	1/2	1/2	1/2		1/2	1/2
3/4	1,836.63	3/4	1,505.21	3/4	1,173.79	3/4	851.65	3/4	549.55	3/4	266.99	3/4	9.24	3/4	3/4	3/4		3/4	3/4
4	1,829.72	4	1,498.31	4	1,166.89	4	845.16	4	543.46	4	261.31	4	5.95	4	4	4		4	4
1/4	1,822.82	1/4	1,491.40	1/4	1,159.99	1/4	838.67	1/4	537.36	1/4	255.63	1/4	2.66	1/4	1/4	1/4		1/4	1/4
1/2	1,815.91	1/2	1,484.50	1/2	1,153.10	1/2	832.21	1/2	531.30	1/2	249.99	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,809.01	3/4	1,477.59	3/4	1,146.21	3/4	825.75	3/4	525.24	3/4	244.34	3/4		3/4	3/4	3/4		3/4	3/4
5	1,802.10	5	1,470.69	5	1,139.32	5	819.30	5	519.19	5	238.70	5		5	5	5		5	5
1/4	1,795.20	1/4	1,463.78	1/4	1,132.44	1/4	812.84	1/4	513.13	1/4	233.05	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,788.29	1/2	1,456.88	1/2	1,125.58	1/2	806.42	1/2	507.10	1/2	227.44	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,781.39	3/4	1,449.97	3/4	1,118.73	3/4	800.00	3/4	501.08	3/4	221.83	3/4		3/4	3/4	3/4		3/4	3/4
6	1,774.49	6	1,443.07	6	1,111.88	6	793.58	6	495.05	6	216.22	6		6	6	6		6	6
1/4	1,767.58	1/4	1,436.17	1/4	1,105.03	1/4	787.16	1/4	489.03	1/4	210.61	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,760.68	1/2	1,429.26	1/2	1,098.21	1/2	780.77	1/2	483.04	1/2	205.04	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,753.77	3/4	1,422.36	3/4	1,091.39	3/4	774.38	3/4	477.05	3/4	199.46	3/4		3/4	3/4	3/4		3/4	3/4
7	1,746.87	7	1,415.45	7	1,084.57	7	767.99	7	471.06	7	193.88	7		7	7	7		7	7
1/4	1,739.96	1/4	1,408.55	1/4	1,077.75	1/4	761.59	1/4	465.07	1/4	188.31	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,733.06	1/2	1,401.64	1/2	1,070.97	1/2	755.24	1/2	459.11	1/2	182.77	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,726.15	3/4	1,394.74	3/4	1,064.18	3/4	748.88	3/4	453.16	3/4	177.22	3/4		3/4	3/4	3/4		3/4	3/4
8	1,719.25	8	1,387.83	8	1,057.40	8	742.53	8	447.20	8	171.68	8		8	8	8		8	8
1/4	1,712.35	1/4	1,380.93	1/4	1,050.62	1/4	736.17	1/4	441.25	1/4	166.14	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,705.44	1/2	1,374.02	1/2	1,043.87	1/2	729.85	1/2	435.32	1/2	160.63	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,698.54	3/4	1,367.12	3/4	1,037.12	3/4	723.52	3/4	429.40	3/4	155.13	3/4		3/4	3/4	3/4		3/4	3/4
9	1,691.63	9	1,360.22	9	1,030.37	9	717.20	9	423.48	9	149.62	9		9	9	9		9	9
1/4	1,684.73	1/4	1,353.31	1/4	1,023.62	1/4	710.88	1/4	417.56	1/4	144.11	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,677.82	1/2	1,346.41	1/2	1,016.91	1/2	704.58	1/2	411.67	1/2	138.64	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,670.92	3/4	1,339.50	3/4	1,010.19	3/4	698.28	3/4	405.79	3/4	133.17	3/4		3/4	3/4	3/4		3/4	3/4
10	1,664.01	10	1,332.60	10	1,003.48	10	691.98	10	399.90	10	127.69	10		10	10	10		10	10
1/4	1,657.11	1/4	1,325.69	1/4	996.76	1/4	685.68	1/4	394.01	1/4	122.22	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,650.20	1/2	1,318.79	1/2	990.08	1/2	679.41	1/2	388.16	1/2	116.78	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,643.30	3/4	1,311.88	3/4	983.40	3/4	673.15	3/4	382.31	3/4	111.34	3/4		3/4	3/4	3/4		3/4	3/4
11	1,636.40	11	1,304.98	11	976.72	11	666.88	11	376.46	11	105.91	11		11	11	11		11	11
1/4	1,629.49	1/4	1,298.08	1/4	970.04	1/4	660.61	1/4	370.61	1/4	100.47	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,622.59	1/2	1,291.17	1/2	963.39	1/2	654.38	1/2	364.79	1/2	95.06	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,615.68	3/4	1,284.27	3/4	956.75	3/4	648.15	3/4	358.97	3/4	89.66	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

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



BARGE "EMS 378"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	5,179.70	0	4,792.97	0	4,404.48	0	4,016.00	0	3,627.52	0	3,239.01	0	2,850.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,171.65	1/4	4,784.87	1/4	4,396.39	1/4	4,007.91	1/4	3,619.42	1/4	3,230.92	1/4	2,842.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,163.61	1/2	4,776.78	1/2	4,388.30	1/2	3,999.81	1/2	3,611.33	1/2	3,222.82	1/2	2,834.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,155.56	3/4	4,768.69	3/4	4,380.20	3/4	3,991.72	3/4	3,603.24	3/4	3,214.73	3/4	2,826.20		
1		1		1		1	5,147.52	1	4,760.59	1	4,372.11	1	3,983.63	1	3,595.14	1	3,206.63	1	2,818.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,139.47	1/4	4,752.50	1/4	4,364.02	1/4	3,975.53	1/4	3,587.05	1/4	3,198.54	1/4	2,810.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,131.42	1/2	4,744.41	1/2	4,355.92	1/2	3,967.44	1/2	3,578.96	1/2	3,190.44	1/2	2,801.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,123.38	3/4	4,736.31	3/4	4,347.83	3/4	3,959.35	3/4	3,570.86	3/4	3,182.35	3/4	2,793.82		
2		2		2		2	5,115.33	2	4,728.22	2	4,339.74	2	3,951.25	2	3,562.77	2	3,174.26	2	2,785.72		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,107.28	1/4	4,720.13	1/4	4,331.64	1/4	3,943.16	1/4	3,554.68	1/4	3,166.16	1/4	2,777.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,099.24	1/2	4,712.03	1/2	4,323.55	1/2	3,935.07	1/2	3,546.58	1/2	3,158.07	1/2	2,769.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,091.19	3/4	4,703.94	3/4	4,315.46	3/4	3,926.97	3/4	3,538.49	3/4	3,149.97	3/4	2,761.44		
3		3		3		3	5,083.15	3	4,695.85	3	4,307.36	3	3,918.88	3	3,530.40	3	3,141.88	3	2,753.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,075.10	1/4	4,687.75	1/4	4,299.27	1/4	3,910.79	1/4	3,522.30	1/4	3,133.78	1/4	2,745.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,067.05	1/2	4,679.66	1/2	4,291.18	1/2	3,902.69	1/2	3,514.21	1/2	3,125.69	1/2	2,737.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,059.01	3/4	4,671.57	3/4	4,283.08	3/4	3,894.60	3/4	3,506.12	3/4	3,117.59	3/4	2,729.06		
4		4		4		4	5,050.96	4	4,663.47	4	4,274.99	4	3,886.51	4	3,498.02	4	3,109.50	4	2,720.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,042.92	1/4	4,655.38	1/4	4,266.90	1/4	3,878.41	1/4	3,489.93	1/4	3,101.41	1/4	2,712.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,034.87	1/2	4,647.29	1/2	4,258.80	1/2	3,870.32	1/2	3,481.84	1/2	3,093.31	1/2	2,704.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,026.82	3/4	4,639.19	3/4	4,250.71	3/4	3,862.23	3/4	3,473.74	3/4	3,085.22	3/4	2,696.69		
5		5		5		5	5,018.78	5	4,631.10	5	4,242.62	5	3,854.13	5	3,465.65	5	3,077.12	5	2,688.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,010.73	1/4	4,623.01	1/4	4,234.52	1/4	3,846.04	1/4	3,457.56	1/4	3,069.03	1/4	2,680.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,002.69	1/2	4,614.91	1/2	4,226.43	1/2	3,837.95	1/2	3,449.46	1/2	3,060.93	1/2	2,672.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,994.64	3/4	4,606.82	3/4	4,218.34	3/4	3,829.85	3/4	3,441.37	3/4	3,052.84	3/4	2,664.31		
6		6		6		6	4,986.59	6	4,598.73	6	4,210.24	6	3,821.76	6	3,433.28	6	3,044.75	6	2,656.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,978.55	1/4	4,590.63	1/4	4,202.15	1/4	3,813.67	1/4	3,425.18	1/4	3,036.65	1/4	2,648.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,348.60	1/2	4,970.50	1/2	4,582.54	1/2	4,194.06	1/2	3,805.57	1/2	3,417.09	1/2	3,028.56	1/2	2,640.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,342.48	3/4	4,962.46	3/4	4,574.44	3/4	4,185.96	3/4	3,797.48	3/4	3,408.99	3/4	3,020.46	3/4	2,631.93
7		7		7		7	5,336.35	7	4,954.41	7	4,566.35	7	4,177.87	7	3,789.39	7	3,400.90	7	3,012.37	7	2,623.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,330.23	1/4	4,946.36	1/4	4,558.26	1/4	4,169.77	1/4	3,781.29	1/4	3,392.80	1/4	3,004.27	1/4	2,615.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,322.69	1/2	4,938.32	1/2	4,550.16	1/2	4,161.68	1/2	3,773.20	1/2	3,384.71	1/2	2,996.18	1/2	2,607.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,315.14	3/4	4,930.27	3/4	4,542.07	3/4	4,153.59	3/4	3,765.10	3/4	3,376.62	3/4	2,988.08	3/4	2,599.55
8		8		8		8	5,307.60	8	4,922.22	8	4,533.98	8	4,145.49	8	3,757.01	8	3,368.52	8	2,979.99	8	2,591.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,300.05	1/4	4,914.18	1/4	4,525.88	1/4	4,137.40	1/4	3,748.92	1/4	3,360.43	1/4	2,971.90	1/4	2,583.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,292.09	1/2	4,906.13	1/2	4,517.79	1/2	4,129.31	1/2	3,740.82	1/2	3,352.33	1/2	2,963.80	1/2	2,575.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,284.13	3/4	4,898.09	3/4	4,509.70	3/4	4,121.21	3/4	3,732.73	3/4	3,344.24	3/4	2,955.71	3/4	2,567.18
9		9		9		9	5,276.17	9	4,890.04	9	4,501.60	9	4,113.12	9	3,724.64	9	3,336.14	9	2,947.61	9	2,559.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,268.21	1/4	4,881.99	1/4	4,493.51	1/4	4,105.03	1/4	3,716.54	1/4	3,328.05	1/4	2,939.52	1/4	2,550.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,260.16	1/2	4,873.90	1/2	4,485.42	1/2	4,096.93	1/2	3,708.45	1/2	3,319.95	1/2	2,931.42	1/2	2,542.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,252.11	3/4	4,865.81	3/4	4,477.32	3/4	4,088.84	3/4	3,700.36	3/4	3,311.86	3/4	2,923.33	3/4	2,534.80
10		10		10		10	5,244.07	10	4,857.71	10	4,469.23	10	4,080.75	10	3,692.26	10	3,303.77	10	2,915.23	10	2,526.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,236.02	1/4	4,849.62	1/4	4,461.14	1/4	4,072.65	1/4	3,684.17	1/4	3,295.67	1/4	2,907.14	1/4	2,518.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,227.98	1/2	4,841.53	1/2	4,453.04	1/2	4,064.56	1/2	3,676.08	1/2	3,287.58	1/2	2,899.05	1/2	2,510.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,219.93	3/4	4,833.43	3/4	4,444.95	3/4	4,056.47	3/4	3,667.98	3/4	3,279.48	3/4	2,890.95	3/4	2,502.42
11		11		11		11	5,211.88	11	4,825.34	11	4,436.86	11	4,048.37	11	3,659.89	11	3,271.39	11	2,882.86	11	2,494.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,203.84	1/4	4,817.25	1/4	4,428.76	1/4	4,040.28	1/4	3,651.80	1/4	3,263.29	1/4	2,874.76	1/4	2,486.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,195.79	1/2	4,809.15	1/2	4,420.67	1/2	4,032.19	1/2	3,643.70	1/2	3,255.20	1/2	2,866.67	1/2	2,478.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,187.75	3/4	4,801.06	3/4	4,412.58	3/4	4,024.09	3/4	3,635.61	3/4	3,247.11	3/4	2,858.57	3/4	2,470.04

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 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 378"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,461.95	0	2,073.42	0	1,684.89	0	1,296.35	0	907.82	0	534.25	0	146.06	0		0		0	
1/4	2,453.85	1/4	2,065.32	1/4	1,676.79	1/4	1,288.26	1/4	899.73	1/4	526.47	1/4	137.97	1/4	1/4	1/4		1/4	
1/2	2,445.76	1/2	2,057.23	1/2	1,668.70	1/2	1,280.17	1/2	891.94	1/2	518.38	1/2	129.88	1/2	1/2	1/2		1/2	
3/4	2,437.67	3/4	2,049.13	3/4	1,660.60	3/4	1,272.07	3/4	884.15	3/4	510.28	3/4	121.78	3/4	3/4	3/4		3/4	
1	2,429.57	1	2,041.04	1	1,652.51	1	1,263.98	1	876.36	1	502.19	1	113.69	1	1	1		1	
1/4	2,421.48	1/4	2,032.95	1/4	1,644.41	1/4	1,255.88	1/4	868.57	1/4	494.10	1/4	105.59	1/4	1/4	1/4		1/4	
1/2	2,413.38	1/2	2,024.85	1/2	1,636.32	1/2	1,247.79	1/2	860.79	1/2	486.00	1/2	97.50	1/2	1/2	1/2		1/2	
3/4	2,405.29	3/4	2,016.76	3/4	1,628.23	3/4	1,239.69	3/4	853.00	3/4	477.91	3/4	89.41	3/4	3/4	3/4		3/4	
2	2,397.19	2	2,008.66	2	1,620.13	2	1,231.60	2	845.21	2	469.82	2	81.31	2	2	2		2	
1/4	2,389.10	1/4	2,000.57	1/4	1,612.04	1/4	1,223.51	1/4	837.42	1/4	461.72	1/4	73.22	1/4	1/4	1/4		1/4	
1/2	2,381.00	1/2	1,992.47	1/2	1,603.94	1/2	1,215.41	1/2	829.64	1/2	453.63	1/2	65.13	1/2	1/2	1/2		1/2	
3/4	2,372.91	3/4	1,984.38	3/4	1,595.85	3/4	1,207.32	3/4	821.85	3/4	445.53	3/4	57.04	3/4	3/4	3/4		3/4	
3	2,364.82	3	1,976.28	3	1,587.75	3	1,199.22	3	814.07	3	437.44	3	49.81	3	3	3		3	
1/4	2,356.72	1/4	1,968.19	1/4	1,579.66	1/4	1,191.13	1/4	806.29	1/4	429.35	1/4	42.00	1/4	1/4	1/4		1/4	
1/2	2,348.63	1/2	1,960.10	1/2	1,571.56	1/2	1,183.03	1/2	798.52	1/2	421.25	1/2	36.22	1/2	1/2	1/2		1/2	
3/4	2,340.53	3/4	1,952.00	3/4	1,563.47	3/4	1,174.94	3/4	790.74	3/4	413.16	3/4	30.44	3/4	3/4	3/4		3/4	
4	2,332.44	4	1,943.91	4	1,555.38	4	1,166.84	4	782.97	4	405.07	4	24.66	4	4	4		4	
1/4	2,324.34	1/4	1,935.81	1/4	1,547.28	1/4	1,158.75	1/4	775.20	1/4	396.97	1/4	18.88	1/4	1/4	1/4		1/4	
1/2	2,316.25	1/2	1,927.72	1/2	1,539.19	1/2	1,150.66	1/2	767.43	1/2	388.88	1/2		1/2	1/2	1/2		1/2	
3/4	2,308.15	3/4	1,919.62	3/4	1,531.09	3/4	1,142.56	3/4	759.65	3/4	380.78	3/4		3/4	3/4	3/4		3/4	
5	2,300.06	5	1,911.53	5	1,523.00	5	1,134.47	5	751.88	5	372.69	5		5	5	5		5	
1/4	2,291.97	1/4	1,903.43	1/4	1,514.90	1/4	1,126.37	1/4	744.11	1/4	364.60	1/4		1/4	1/4	1/4		1/4	
1/2	2,283.87	1/2	1,895.34	1/2	1,506.81	1/2	1,118.28	1/2	736.34	1/2	356.50	1/2		1/2	1/2	1/2		1/2	
3/4	2,275.78	3/4	1,887.25	3/4	1,498.71	3/4	1,110.18	3/4	728.56	3/4	348.41	3/4		3/4	3/4	3/4		3/4	
6	2,267.68	6	1,879.15	6	1,490.62	6	1,102.09	6	720.79	6	340.31	6		6	6	6		6	
1/4	2,259.59	1/4	1,871.06	1/4	1,482.53	1/4	1,093.99	1/4	713.02	1/4	332.22	1/4		1/4	1/4	1/4		1/4	
1/2	2,251.49	1/2	1,862.96	1/2	1,474.43	1/2	1,085.90	1/2	705.25	1/2	324.13	1/2		1/2	1/2	1/2		1/2	
3/4	2,243.40	3/4	1,854.87	3/4	1,466.34	3/4	1,077.81	3/4	697.48	3/4	316.03	3/4		3/4	3/4	3/4		3/4	
7	2,235.31	7	1,846.77	7	1,458.24	7	1,069.71	7	689.71	7	307.94	7		7	7	7		7	
1/4	2,227.21	1/4	1,838.68	1/4	1,450.15	1/4	1,061.62	1/4	681.94	1/4	299.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,219.12	1/2	1,830.59	1/2	1,442.05	1/2	1,053.52	1/2	674.18	1/2	291.75	1/2		1/2	1/2	1/2		1/2	
3/4	2,211.02	3/4	1,822.49	3/4	1,433.96	3/4	1,045.43	3/4	666.41	3/4	283.66	3/4		3/4	3/4	3/4		3/4	
8	2,202.93	8	1,814.40	8	1,425.87	8	1,037.33	8	658.64	8	275.56	8		8	8	8		8	
1/4	2,194.83	1/4	1,806.30	1/4	1,417.77	1/4	1,029.24	1/4	650.87	1/4	267.47	1/4		1/4	1/4	1/4		1/4	
1/2	2,186.74	1/2	1,798.21	1/2	1,409.68	1/2	1,021.15	1/2	643.10	1/2	259.38	1/2		1/2	1/2	1/2		1/2	
3/4	2,178.64	3/4	1,790.11	3/4	1,401.58	3/4	1,013.05	3/4	635.33	3/4	251.28	3/4		3/4	3/4	3/4		3/4	
9	2,170.55	9	1,782.02	9	1,393.49	9	1,004.96	9	627.55	9	243.19	9		9	9	9		9	
1/4	2,162.46	1/4	1,773.92	1/4	1,385.39	1/4	996.86	1/4	619.78	1/4	235.10	1/4		1/4	1/4	1/4		1/4	
1/2	2,154.36	1/2	1,765.83	1/2	1,377.30	1/2	988.77	1/2	612.01	1/2	227.00	1/2		1/2	1/2	1/2		1/2	
3/4	2,146.27	3/4	1,757.74	3/4	1,369.20	3/4	980.67	3/4	604.24	3/4	218.91	3/4		3/4	3/4	3/4		3/4	
10	2,138.17	10	1,749.64	10	1,361.11	10	972.58	10	596.46	10	210.81	10		10	10	10		10	
1/4	2,130.08	1/4	1,741.55	1/4	1,353.02	1/4	964.48	1/4	588.69	1/4	202.72	1/4		1/4	1/4	1/4		1/4	
1/2	2,121.98	1/2	1,733.45	1/2	1,344.92	1/2	956.39	1/2	580.92	1/2	194.63	1/2		1/2	1/2	1/2		1/2	
3/4	2,113.89	3/4	1,725.36	3/4	1,336.83	3/4	948.30	3/4	573.15	3/4	186.53	3/4		3/4	3/4	3/4		3/4	
11	2,105.79	11	1,717.26	11	1,328.73	11	940.20	11	565.37	11	178.44	11		11	11	11		11	
1/4	2,097.70	1/4	1,709.17	1/4	1,320.64	1/4	932.11	1/4	557.60	1/4	170.34	1/4		1/4	1/4	1/4		1/4	
1/2	2,089.61	1/2	1,701.07	1/2	1,312.54	1/2	924.01	1/2	549.82	1/2	162.25	1/2		1/2	1/2	1/2		1/2	
3/4	2,081.51	3/4	1,692.98	3/4	1,304.45	3/4	915.92	3/4	542.04	3/4	154.16	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 378"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
					5,173.88				4,787.40				4,011.14				3,234.84		2,846.66
1/4	1/4	1/4	1/4	1/4	5,165.84	1/4	1/4	1/4	4,779.31	1/4	1/4	1/4	4,003.05	1/4	1/4	1/4	3,226.75	1/4	2,838.57
1/2	1/2	1/2	1/2	1/2	5,157.80	1/2	1/2	1/2	4,771.23	1/2	1/2	1/2	3,994.96	1/2	1/2	1/2	3,218.67	1/2	2,830.48
3/4	3/4	3/4	3/4	3/4	5,149.76	3/4	3/4	3/4	4,763.14	3/4	3/4	3/4	3,986.88	3/4	3/4	3/4	3,210.58	3/4	2,822.39
1	1	1	1	1	5,141.72	1	1	1	4,755.06	1	1	1	3,978.79	1	1	1	3,202.49	1	2,814.31
1/4	1/4	1/4	1/4	1/4	5,133.68	1/4	1/4	1/4	4,746.97	1/4	1/4	1/4	3,970.70	1/4	1/4	1/4	3,194.41	1/4	2,806.22
1/2	1/2	1/2	1/2	1/2	5,125.65	1/2	1/2	1/2	4,738.88	1/2	1/2	1/2	3,962.62	1/2	1/2	1/2	3,186.32	1/2	2,798.13
3/4	3/4	3/4	3/4	3/4	5,117.61	3/4	3/4	3/4	4,730.80	3/4	3/4	3/4	3,954.53	3/4	3/4	3/4	3,178.23	3/4	2,790.05
2	2	2	2	2	5,109.57	2	2	2	4,722.71	2	2	2	3,946.45	2	2	2	3,170.14	2	2,781.96
1/4	1/4	1/4	1/4	1/4	5,101.53	1/4	1/4	1/4	4,714.63	1/4	1/4	1/4	3,938.36	1/4	1/4	1/4	3,162.06	1/4	2,773.87
1/2	1/2	1/2	1/2	1/2	5,093.49	1/2	1/2	1/2	4,706.54	1/2	1/2	1/2	3,930.27	1/2	1/2	1/2	3,153.97	1/2	2,765.78
3/4	3/4	3/4	3/4	3/4	5,085.45	3/4	3/4	3/4	4,698.45	3/4	3/4	3/4	3,922.19	3/4	3/4	3/4	3,145.88	3/4	2,757.70
3	3	3	3	3	5,077.41	3	3	3	4,690.37	3	3	3	3,914.10	3	3	3	3,137.80	3	2,749.61
1/4	1/4	1/4	1/4	1/4	5,069.37	1/4	1/4	1/4	4,682.28	1/4	1/4	1/4	3,906.02	1/4	1/4	1/4	3,129.71	1/4	2,741.52
1/2	1/2	1/2	1/2	1/2	5,061.33	1/2	1/2	1/2	4,674.20	1/2	1/2	1/2	3,897.93	1/2	1/2	1/2	3,121.62	1/2	2,733.44
3/4	3/4	3/4	3/4	3/4	5,053.30	3/4	3/4	3/4	4,666.11	3/4	3/4	3/4	3,889.84	3/4	3/4	3/4	3,113.53	3/4	2,725.35
4	4	4	4	4	5,045.26	4	4	4	4,658.02	4	4	4	3,881.76	4	4	4	3,105.45	4	2,717.26
1/4	1/4	1/4	1/4	1/4	5,037.22	1/4	1/4	1/4	4,649.94	1/4	1/4	1/4	3,873.67	1/4	1/4	1/4	3,097.36	1/4	2,709.17
1/2	1/2	1/2	1/2	1/2	5,029.18	1/2	1/2	1/2	4,641.85	1/2	1/2	1/2	3,865.59	1/2	1/2	1/2	3,089.27	1/2	2,701.09
3/4	3/4	3/4	3/4	3/4	5,021.14	3/4	3/4	3/4	4,633.76	3/4	3/4	3/4	3,857.50	3/4	3/4	3/4	3,081.19	3/4	2,693.00
5	5	5	5	5	5,013.10	5	5	5	4,625.68	5	5	5	3,849.41	5	5	5	3,073.10	5	2,684.91
1/4	1/4	1/4	1/4	1/4	5,005.06	1/4	1/4	1/4	4,617.59	1/4	1/4	1/4	3,841.33	1/4	1/4	1/4	3,065.01	1/4	2,676.83
1/2	1/2	1/2	1/2	1/2	4,997.02	1/2	1/2	1/2	4,609.51	1/2	1/2	1/2	3,833.24	1/2	1/2	1/2	3,056.92	1/2	2,668.74
3/4	3/4	3/4	3/4	3/4	4,988.99	3/4	3/4	3/4	4,601.42	3/4	3/4	3/4	3,825.15	3/4	3/4	3/4	3,048.84	3/4	2,660.65
6	6	6	6	5,358.70	4,980.95	6	6	6	4,593.33	6	6	6	3,817.07	6	6	6	3,040.75	6	2,652.56
1/4	1/4	1/4	1/4	5,352.59	4,972.91	1/4	1/4	1/4	4,585.25	1/4	1/4	1/4	3,808.98	1/4	1/4	1/4	3,032.66	1/4	2,644.48
1/2	1/2	1/2	1/2	5,346.47	4,964.87	1/2	1/2	1/2	4,577.16	1/2	1/2	1/2	3,800.90	1/2	1/2	1/2	3,024.57	1/2	2,636.39
3/4	3/4	3/4	3/4	5,340.36	4,956.83	3/4	3/4	3/4	4,569.08	3/4	3/4	3/4	3,792.81	3/4	3/4	3/4	3,016.49	3/4	2,628.30
7	7	7	7	5,332.81	4,948.79	7	7	7	4,560.99	7	7	7	3,784.72	7	7	7	3,008.40	7	2,620.21
1/4	1/4	1/4	1/4	5,325.27	4,940.75	1/4	1/4	1/4	4,552.90	1/4	1/4	1/4	3,776.64	1/4	1/4	1/4	3,000.31	1/4	2,612.13
1/2	1/2	1/2	1/2	5,317.73	4,932.71	1/2	1/2	1/2	4,544.82	1/2	1/2	1/2	3,768.55	1/2	1/2	1/2	2,992.23	1/2	2,604.04
3/4	3/4	3/4	3/4	5,310.19	4,924.68	3/4	3/4	3/4	4,536.73	3/4	3/4	3/4	3,760.47	3/4	3/4	3/4	2,984.14	3/4	2,595.95
8	8	8	8	5,302.24	4,916.64	8	8	8	4,528.65	8	8	8	3,752.38	8	8	8	3,064.24	8	2,587.87
1/4	1/4	1/4	1/4	5,294.29	4,908.60	1/4	1/4	1/4	4,520.56	1/4	1/4	1/4	3,744.29	1/4	1/4	1/4	3,056.15	1/4	2,579.78
1/2	1/2	1/2	1/2	5,286.34	4,900.56	1/2	1/2	1/2	4,512.47	1/2	1/2	1/2	3,736.21	1/2	1/2	1/2	2,959.88	1/2	2,571.69
3/4	3/4	3/4	3/4	5,278.38	4,892.52	3/4	3/4	3/4	4,504.39	3/4	3/4	3/4	3,728.12	3/4	3/4	3/4	2,951.79	3/4	2,563.60
9	9	9	9	5,270.34	4,884.43	9	9	9	4,496.30	9	9	9	3,720.04	9	9	9	3,033.89	9	2,555.52
1/4	1/4	1/4	1/4	5,262.30	4,876.35	1/4	1/4	1/4	4,488.22	1/4	1/4	1/4	3,711.95	1/4	1/4	1/4	2,935.62	1/4	2,547.43
1/2	1/2	1/2	1/2	5,254.27	4,868.26	1/2	1/2	1/2	4,480.13	1/2	1/2	1/2	3,703.86	1/2	1/2	1/2	2,927.53	1/2	2,539.34
3/4	3/4	3/4	3/4	5,246.23	4,860.18	3/4	3/4	3/4	4,472.04	3/4	3/4	3/4	3,695.78	3/4	3/4	3/4	2,919.44	3/4	2,531.26
10	10	10	10	5,238.19	4,852.09	10	10	10	4,463.96	10	10	10	3,687.69	10	10	10	2,911.35	10	2,523.17
1/4	1/4	1/4	1/4	5,230.15	4,844.00	1/4	1/4	1/4	4,455.87	1/4	1/4	1/4	3,679.61	1/4	1/4	1/4	2,903.27	1/4	2,515.08
1/2	1/2	1/2	1/2	5,222.11	4,835.92	1/2	1/2	1/2	4,447.78	1/2	1/2	1/2	3,671.52	1/2	1/2	1/2	2,895.18	1/2	2,506.99
3/4	3/4	3/4	3/4	5,214.07	4,827.83	3/4	3/4	3/4	4,439.70	3/4	3/4	3/4	3,663.43	3/4	3/4	3/4	2,887.09	3/4	2,498.91
11	11	11	11	5,206.03	4,819.75	11	11	11	4,431.61	11	11	11	3,655.35	11	11	11	2,879.01	11	2,490.82
1/4	1/4	1/4	1/4	5,197.99	4,811.66	1/4	1/4	1/4	4,423.53	1/4	1/4	1/4	3,647.26	1/4	1/4	1/4	2,870.92	1/4	2,482.73
1/2	1/2	1/2	1/2	5,189.96	4,803.57	1/2	1/2	1/2	4,415.44	1/2	1/2	1/2	3,639.17	1/2	1/2	1/2	2,862.83	1/2	2,474.65
3/4	3/4	3/4	3/4	5,181.92	4,795.49	3/4	3/4	3/4	4,407.35	3/4	3/4	3/4	3,631.09	3/4	3/4	3/4	2,854.74	3/4	2,466.56

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 43'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 378"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,458.47	0	2,070.29	0	1,682.10	0	1,293.91	0	905.73	0	517.92	0	129.76	0		0		0	
1/4	2,450.38	1/4	2,062.20	1/4	1,674.01	1/4	1,285.83	1/4	897.64	1/4	509.83	1/4	121.67	1/4	1/4	1/4		1/4	
1/2	2,442.30	1/2	2,054.11	1/2	1,665.93	1/2	1,277.74	1/2	889.55	1/2	501.74	1/2	113.59	1/2	1/2	1/2		1/2	
3/4	2,434.21	3/4	2,046.02	3/4	1,657.84	3/4	1,269.65	3/4	881.47	3/4	493.66	3/4	105.50	3/4	3/4	3/4		3/4	
1	2,426.12	1	2,037.94	1	1,649.75	1	1,261.57	1	873.38	1	485.57	1	97.41	1	1	1		1	
1/4	2,418.03	1/4	2,029.85	1/4	1,641.66	1/4	1,253.48	1/4	865.29	1/4	477.48	1/4	89.33	1/4	1/4	1/4		1/4	
1/2	2,409.95	1/2	2,021.76	1/2	1,633.58	1/2	1,245.39	1/2	857.21	1/2	469.40	1/2	81.24	1/2	1/2	1/2		1/2	
3/4	2,401.86	3/4	2,013.67	3/4	1,625.49	3/4	1,237.30	3/4	849.12	3/4	461.31	3/4	73.15	3/4	3/4	3/4		3/4	
2	2,393.77	2	2,005.59	2	1,617.40	2	1,229.22	2	841.03	2	453.22	2	65.36	2	2	2		2	
1/4	2,385.69	1/4	1,997.50	1/4	1,609.31	1/4	1,221.13	1/4	832.94	1/4	445.14	1/4	57.56	1/4	1/4	1/4		1/4	
1/2	2,377.60	1/2	1,989.41	1/2	1,601.23	1/2	1,213.04	1/2	824.86	1/2	437.05	1/2	49.76	1/2	1/2	1/2		1/2	
3/4	2,369.51	3/4	1,981.33	3/4	1,593.14	3/4	1,204.95	3/4	816.77	3/4	428.96	3/4	41.96	3/4	3/4	3/4		3/4	
3	2,361.42	3	1,973.24	3	1,585.05	3	1,196.87	3	808.69	3	420.88	3	36.19	3	3	3		3	
1/4	2,353.34	1/4	1,965.15	1/4	1,576.97	1/4	1,188.78	1/4	800.62	1/4	412.79	1/4	30.41	1/4	1/4	1/4		1/4	
1/2	2,345.25	1/2	1,957.06	1/2	1,568.88	1/2	1,180.69	1/2	792.54	1/2	404.70	1/2	24.64	1/2	1/2	1/2		1/2	
3/4	2,337.16	3/4	1,948.98	3/4	1,560.79	3/4	1,172.61	3/4	784.46	3/4	396.62	3/4	18.86	3/4	3/4	3/4		3/4	
4	2,329.08	4	1,940.89	4	1,552.70	4	1,164.52	4	776.39	4	388.53	4		4	4	4		4	
1/4	2,320.99	1/4	1,932.80	1/4	1,544.62	1/4	1,156.43	1/4	768.31	1/4	380.44	1/4		1/4	1/4	1/4		1/4	
1/2	2,312.90	1/2	1,924.72	1/2	1,536.53	1/2	1,148.34	1/2	760.23	1/2	372.36	1/2		1/2	1/2	1/2		1/2	
3/4	2,304.81	3/4	1,916.63	3/4	1,528.44	3/4	1,140.26	3/4	752.15	3/4	364.27	3/4		3/4	3/4	3/4		3/4	
5	2,296.73	5	1,908.54	5	1,520.36	5	1,132.17	5	744.08	5	356.18	5		5	5	5		5	
1/4	2,288.64	1/4	1,900.45	1/4	1,512.27	1/4	1,124.08	1/4	736.00	1/4	348.10	1/4		1/4	1/4	1/4		1/4	
1/2	2,280.55	1/2	1,892.37	1/2	1,504.18	1/2	1,116.00	1/2	727.92	1/2	340.01	1/2		1/2	1/2	1/2		1/2	
3/4	2,272.47	3/4	1,884.28	3/4	1,496.09	3/4	1,107.91	3/4	719.85	3/4	331.92	3/4		3/4	3/4	3/4		3/4	
6	2,264.38	6	1,876.19	6	1,488.01	6	1,099.82	6	711.78	6	323.84	6		6	6	6		6	
1/4	2,256.29	1/4	1,868.11	1/4	1,479.92	1/4	1,091.73	1/4	703.70	1/4	315.75	1/4		1/4	1/4	1/4		1/4	
1/2	2,248.20	1/2	1,860.02	1/2	1,471.83	1/2	1,083.65	1/2	695.63	1/2	307.67	1/2		1/2	1/2	1/2		1/2	
3/4	2,240.12	3/4	1,851.93	3/4	1,463.75	3/4	1,075.56	3/4	687.56	3/4	299.58	3/4		3/4	3/4	3/4		3/4	
7	2,232.03	7	1,843.84	7	1,455.66	7	1,067.47	7	679.49	7	291.49	7		7	7	7		7	
1/4	2,223.94	1/4	1,835.76	1/4	1,447.57	1/4	1,059.39	1/4	671.41	1/4	283.41	1/4		1/4	1/4	1/4		1/4	
1/2	2,215.85	1/2	1,827.67	1/2	1,439.48	1/2	1,051.30	1/2	663.34	1/2	275.32	1/2		1/2	1/2	1/2		1/2	
3/4	2,207.77	3/4	1,819.58	3/4	1,431.40	3/4	1,043.21	3/4	655.27	3/4	267.23	3/4		3/4	3/4	3/4		3/4	
8	2,199.68	8	1,811.49	8	1,423.31	8	1,035.12	8	647.19	8	259.15	8		8	8	8		8	
1/4	2,191.59	1/4	1,803.41	1/4	1,415.22	1/4	1,027.04	1/4	639.11	1/4	251.06	1/4		1/4	1/4	1/4		1/4	
1/2	2,183.51	1/2	1,795.32	1/2	1,407.13	1/2	1,018.95	1/2	631.04	1/2	242.97	1/2		1/2	1/2	1/2		1/2	
3/4	2,175.42	3/4	1,787.23	3/4	1,399.05	3/4	1,010.86	3/4	622.96	3/4	234.89	3/4		3/4	3/4	3/4		3/4	
9	2,167.33	9	1,779.15	9	1,390.96	9	1,002.77	9	614.89	9	226.80	9		9	9	9		9	
1/4	2,159.24	1/4	1,771.06	1/4	1,382.87	1/4	994.69	1/4	606.81	1/4	218.71	1/4		1/4	1/4	1/4		1/4	
1/2	2,151.16	1/2	1,762.97	1/2	1,374.79	1/2	986.60	1/2	598.73	1/2	210.63	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.07	3/4	1,754.88	3/4	1,366.70	3/4	978.51	3/4	590.66	3/4	202.54	3/4		3/4	3/4	3/4		3/4	
10	2,134.98	10	1,746.80	10	1,358.61	10	970.43	10	582.58	10	194.45	10		10	10	10		10	
1/4	2,126.90	1/4	1,738.71	1/4	1,350.52	1/4	962.34	1/4	574.50	1/4	186.37	1/4		1/4	1/4	1/4		1/4	
1/2	2,118.81	1/2	1,730.62	1/2	1,342.44	1/2	954.25	1/2	566.43	1/2	178.28	1/2		1/2	1/2	1/2		1/2	
3/4	2,110.72	3/4	1,722.54	3/4	1,334.35	3/4	946.16	3/4	558.35	3/4	170.19	3/4		3/4	3/4	3/4		3/4	
11	2,102.63	11	1,714.45	11	1,326.26	11	938.08	11	550.26	11	162.11	11		11	11	11		11	
1/4	2,094.55	1/4	1,706.36	1/4	1,318.18	1/4	929.99	1/4	542.18	1/4	154.02	1/4		1/4	1/4	1/4		1/4	
1/2	2,086.46	1/2	1,698.27	1/2	1,310.09	1/2	921.90	1/2	534.09	1/2	145.93	1/2		1/2	1/2	1/2		1/2	
3/4	2,078.37	3/4	1,690.19	3/4	1,302.00	3/4	913.82	3/4	526.00	3/4	137.85	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 378"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,575.11	1/4	4,270.32	1/4	3,964.30	1/4	3,658.28	1/4	3,345.40	1/4	2,984.76	1/4	2,623.96
1/2		1/2		1/2		1/2	4,568.77	1/2	4,263.95	1/2	3,957.92	1/2	3,651.90	1/2	3,337.88	1/2	2,977.25	1/2	2,616.44
3/4		3/4		3/4		3/4	4,562.43	3/4	4,257.57	3/4	3,951.55	3/4	3,645.52	3/4	3,330.36	3/4	2,969.73	3/4	2,608.92
1	1	1	1	1	1	1	4,556.09	1	4,251.20	1	3,945.17	1	3,639.15	1	3,322.84	1	2,962.22	1	2,601.40
1/4		1/4		1/4		1/4	4,549.75	1/4	4,244.82	1/4	3,938.80	1/4	3,632.77	1/4	3,315.32	1/4	2,954.71	1/4	2,593.88
1/2		1/2		1/2		1/2	4,543.41	1/2	4,238.45	1/2	3,932.42	1/2	3,626.40	1/2	3,307.81	1/2	2,947.20	1/2	2,586.36
3/4		3/4		3/4		3/4	4,537.07	3/4	4,232.07	3/4	3,926.05	3/4	3,620.02	3/4	3,300.29	3/4	2,939.69	3/4	2,578.84
2	2	2	2	2	2	2	4,530.73	2	4,225.70	2	3,919.67	2	3,613.65	2	3,292.77	2	2,932.18	2	2,571.33
1/4		1/4		1/4		1/4	4,524.39	1/4	4,219.32	1/4	3,913.30	1/4	3,607.27	1/4	3,285.25	1/4	2,924.67	1/4	2,563.81
1/2		1/2		1/2		1/2	4,518.06	1/2	4,212.94	1/2	3,906.92	1/2	3,600.90	1/2	3,277.73	1/2	2,917.15	1/2	2,556.29
3/4		3/4		3/4		3/4	4,511.72	3/4	4,206.57	3/4	3,900.54	3/4	3,594.52	3/4	3,270.22	3/4	2,909.64	3/4	2,548.77
3	3	3	3	3	3	3	4,505.38	3	4,200.19	3	3,894.17	3	3,588.14	3	3,262.70	3	2,902.13	3	2,541.25
1/4		1/4		1/4		1/4	4,499.04	1/4	4,193.82	1/4	3,887.79	1/4	3,581.77	1/4	3,255.18	1/4	2,894.62	1/4	2,533.73
1/2		1/2		1/2		1/2	4,492.70	1/2	4,187.44	1/2	3,881.42	1/2	3,575.39	1/2	3,247.66	1/2	2,887.11	1/2	2,526.21
3/4		3/4		3/4		3/4	4,486.36	3/4	4,181.07	3/4	3,875.04	3/4	3,569.02	3/4	3,240.14	3/4	2,879.60	3/4	2,518.69
4	4	4	4	4	4	4	4,480.02	4	4,174.69	4	3,868.67	4	3,562.64	4	3,232.63	4	2,872.08	4	2,511.18
1/4		1/4		1/4		1/4	4,473.68	1/4	4,168.32	1/4	3,862.29	1/4	3,556.27	1/4	3,225.12	1/4	2,864.56	1/4	2,503.66
1/2		1/2		1/2		1/2	4,467.34	1/2	4,161.94	1/2	3,855.92	1/2	3,549.89	1/2	3,217.61	1/2	2,857.04	1/2	2,496.14
3/4		3/4		3/4		3/4	4,461.00	3/4	4,155.56	3/4	3,849.54	3/4	3,543.52	3/4	3,210.10	3/4	2,849.52	3/4	2,488.62
5	5	5	5	5	5	5	4,454.67	5	4,149.19	5	3,843.16	5	3,537.14	5	3,202.59	5	2,842.00	5	2,481.10
1/4		1/4		1/4		1/4	4,448.33	1/4	4,142.81	1/4	3,836.79	1/4	3,530.77	1/4	3,195.08	1/4	2,834.48	1/4	2,473.58
1/2		1/2		1/2		1/2	4,441.99	1/2	4,136.44	1/2	3,830.41	1/2	3,524.39	1/2	3,187.57	1/2	2,826.96	1/2	2,466.06
3/4		3/4		3/4		3/4	4,435.65	3/4	4,130.06	3/4	3,824.04	3/4	3,518.01	3/4	3,180.06	3/4	2,819.45	3/4	2,458.54
6	6	6	6	6	6	6	4,429.31	6	4,123.69	6	3,817.66	6	3,511.64	6	3,172.54	6	2,811.93	6	2,451.02
1/4		1/4		1/4		1/4	4,422.97	1/4	4,117.31	1/4	3,811.29	1/4	3,505.26	1/4	3,165.03	1/4	2,804.41	1/4	2,443.51
1/2		1/2		1/2		1/2	4,416.63	1/2	4,110.94	1/2	3,804.91	1/2	3,498.89	1/2	3,157.52	1/2	2,796.89	1/2	2,435.99
3/4		3/4		3/4		3/4	4,410.29	3/4	4,104.56	3/4	3,798.54	3/4	3,492.51	3/4	3,150.01	3/4	2,789.37	3/4	2,428.47
7	7	7	7	7	7	7	4,403.95	7	4,098.19	7	3,792.16	7	3,486.14	7	3,142.50	7	2,781.85	7	2,420.95
1/4		1/4		1/4		1/4	4,397.61	1/4	4,091.81	1/4	3,785.79	1/4	3,479.76	1/4	3,134.99	1/4	2,774.33	1/4	2,413.43
1/2		1/2		1/2		1/2	4,391.28	1/2	4,085.43	1/2	3,779.41	1/2	3,473.39	1/2	3,127.48	1/2	2,766.81	1/2	2,405.91
3/4		3/4		3/4		3/4	4,384.94	3/4	4,079.06	3/4	3,773.03	3/4	3,467.01	3/4	3,119.96	3/4	2,759.30	3/4	2,398.39
8	8	8	8	8	8	8	4,378.60	8	4,072.68	8	3,766.66	8	3,460.63	8	3,112.45	8	2,751.78	8	2,390.87
1/4		1/4		1/4		1/4	4,372.26	1/4	4,066.31	1/4	3,760.28	1/4	3,454.26	1/4	3,104.94	1/4	2,744.26	1/4	2,383.36
1/2		1/2		1/2		1/2	4,365.92	1/2	4,059.93	1/2	3,753.91	1/2	3,447.88	1/2	3,097.43	1/2	2,736.74	1/2	2,375.84
3/4		3/4		3/4		3/4	4,359.58	3/4	4,053.56	3/4	3,747.53	3/4	3,441.51	3/4	3,089.92	3/4	2,729.22	3/4	2,368.32
9	9	9	9	9	9	9	4,353.21	9	4,047.18	9	3,741.16	9	3,435.13	9	3,082.41	9	2,721.70	9	2,360.80
1/4		1/4		1/4		1/4	4,346.83	1/4	4,040.81	1/4	3,734.78	1/4	3,428.76	1/4	3,074.90	1/4	2,714.18	1/4	2,353.28
1/2		1/2		1/2		1/2	4,340.45	1/2	4,034.43	1/2	3,728.41	1/2	3,422.38	1/2	3,067.38	1/2	2,706.66	1/2	2,345.76
3/4		3/4		3/4		3/4	4,334.08	3/4	4,028.05	3/4	3,722.03	3/4	3,416.01	3/4	3,059.87	3/4	2,699.15	3/4	2,338.24
10	10	10	10	10	10	10	4,327.70	10	4,021.68	10	3,715.65	10	3,409.63	10	3,052.36	10	2,691.63	10	2,330.72
1/4		1/4		1/4		1/4	4,321.33	1/4	4,015.30	1/4	3,709.28	1/4	3,403.26	1/4	3,044.85	1/4	2,684.11	1/4	2,323.21
1/2		1/2		1/2		1/2	4,314.95	1/2	4,008.93	1/2	3,702.90	1/2	3,396.88	1/2	3,037.34	1/2	2,676.59	1/2	2,315.69
3/4		3/4		3/4		3/4	4,308.58	3/4	4,002.55	3/4	3,696.53	3/4	3,390.50	3/4	3,029.83	3/4	2,669.07	3/4	2,308.17
11	11	11	11	11	11	11	4,302.20	11	3,996.18	11	3,690.15	11	3,382.99	11	3,022.31	11	2,661.55	11	2,300.65
1/4		1/4		1/4		1/4	4,295.83	1/4	3,989.80	1/4	3,683.78	1/4	3,375.47	1/4	3,014.80	1/4	2,654.03	1/4	2,293.13
1/2		1/2		1/2		1/2	4,289.45	1/2	3,983.43	1/2	3,677.40	1/2	3,367.95	1/2	3,007.29	1/2	2,646.51	1/2	2,285.61
3/4		3/4		3/4		3/4	4,283.07	3/4	3,977.05	3/4	3,671.03	3/4	3,360.43	3/4	2,999.78	3/4	2,638.99	3/4	2,278.09

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 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 378"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,270.57	0	1,910.20	0	1,549.95	0	1,189.20	0	828.96	0	481.64	0	120.69	0		0		0	
1/4	2,263.05	1/4	1,902.70	1/4	1,542.43	1/4	1,181.69	1/4	821.73	1/4	474.12	1/4	113.17	1/4	1/4		1/4	1/4	
1/2	2,255.54	1/2	1,895.21	1/2	1,534.92	1/2	1,174.17	1/2	814.50	1/2	466.60	1/2	105.65	1/2	1/2		1/2	1/2	
3/4	2,248.02	3/4	1,887.71	3/4	1,527.40	3/4	1,166.66	3/4	807.27	3/4	459.08	3/4	98.13	3/4	3/4		3/4	3/4	
1	2,240.50	1	1,880.22	1	1,519.89	1	1,159.14	1	800.05	1	451.56	1	90.61	1	1		1	1	
1/4	2,232.98	1/4	1,872.72	1/4	1,512.37	1/4	1,151.63	1/4	792.82	1/4	444.04	1/4	83.09	1/4	1/4		1/4	1/4	
1/2	2,225.46	1/2	1,865.23	1/2	1,504.85	1/2	1,144.11	1/2	785.59	1/2	436.52	1/2	75.57	1/2	1/2		1/2	1/2	
3/4	2,217.94	3/4	1,857.73	3/4	1,497.34	3/4	1,136.59	3/4	778.36	3/4	429.00	3/4	68.05	3/4	3/4		3/4	3/4	
2	2,210.42	2	1,850.23	2	1,489.82	2	1,129.08	2	771.12	2	421.48	2	60.80	2	2		2	2	
1/4	2,202.90	1/4	1,842.74	1/4	1,482.31	1/4	1,121.56	1/4	763.88	1/4	413.96	1/4	53.55	1/4	1/4		1/4	1/4	
1/2	2,195.39	1/2	1,835.24	1/2	1,474.79	1/2	1,114.05	1/2	756.64	1/2	406.44	1/2	46.30	1/2	1/2		1/2	1/2	
3/4	2,187.87	3/4	1,827.75	3/4	1,467.28	3/4	1,106.53	3/4	749.40	3/4	398.92	3/4	39.05	3/4	3/4		3/4	3/4	
3	2,180.35	3	1,820.25	3	1,459.76	3	1,099.02	3	742.17	3	391.40	3	33.68	3	3		3	3	
1/4	2,172.83	1/4	1,812.75	1/4	1,452.25	1/4	1,091.50	1/4	734.94	1/4	383.88	1/4	28.31	1/4	1/4		1/4	1/4	
1/2	2,165.31	1/2	1,805.26	1/2	1,444.73	1/2	1,083.99	1/2	727.71	1/2	376.36	1/2	22.94	1/2	1/2		1/2	1/2	
3/4	2,157.79	3/4	1,797.76	3/4	1,437.21	3/4	1,076.47	3/4	720.48	3/4	368.84	3/4	17.57	3/4	3/4		3/4	3/4	
4	2,150.27	4	1,790.27	4	1,429.70	4	1,068.96	4	713.26	4	361.32	4		4	4		4	4	
1/4	2,142.75	1/4	1,782.77	1/4	1,422.18	1/4	1,061.44	1/4	706.03	1/4	353.80	1/4		1/4	1/4		1/4	1/4	
1/2	2,135.24	1/2	1,775.28	1/2	1,414.67	1/2	1,053.92	1/2	698.80	1/2	346.28	1/2		1/2	1/2		1/2	1/2	
3/4	2,127.72	3/4	1,767.78	3/4	1,407.15	3/4	1,046.41	3/4	691.57	3/4	338.76	3/4		3/4	3/4		3/4	3/4	
5	2,120.20	5	1,760.28	5	1,399.64	5	1,038.89	5	684.34	5	331.24	5		5	5		5	5	
1/4	2,112.68	1/4	1,752.79	1/4	1,392.12	1/4	1,031.38	1/4	677.11	1/4	323.72	1/4		1/4	1/4		1/4	1/4	
1/2	2,105.16	1/2	1,745.29	1/2	1,384.61	1/2	1,023.86	1/2	669.88	1/2	316.20	1/2		1/2	1/2		1/2	1/2	
3/4	2,097.64	3/4	1,737.80	3/4	1,377.09	3/4	1,016.35	3/4	662.65	3/4	308.68	3/4		3/4	3/4		3/4	3/4	
6	2,090.13	6	1,730.29	6	1,369.58	6	1,008.84	6	655.43	6	301.16	6		6	6		6	6	
1/4	2,082.63	1/4	1,722.78	1/4	1,362.06	1/4	1,001.33	1/4	648.20	1/4	293.64	1/4		1/4	1/4		1/4	1/4	
1/2	2,075.12	1/2	1,715.28	1/2	1,354.54	1/2	993.83	1/2	640.98	1/2	286.12	1/2		1/2	1/2		1/2	1/2	
3/4	2,067.61	3/4	1,707.77	3/4	1,347.03	3/4	986.32	3/4	633.75	3/4	278.60	3/4		3/4	3/4		3/4	3/4	
7	2,060.12	7	1,700.26	7	1,339.51	7	978.81	7	626.53	7	271.09	7		7	7		7	7	
1/4	2,052.62	1/4	1,692.74	1/4	1,332.00	1/4	971.31	1/4	619.31	1/4	263.57	1/4		1/4	1/4		1/4	1/4	
1/2	2,045.12	1/2	1,685.23	1/2	1,324.48	1/2	963.80	1/2	612.08	1/2	256.05	1/2		1/2	1/2		1/2	1/2	
3/4	2,037.63	3/4	1,677.71	3/4	1,316.97	3/4	956.29	3/4	604.86	3/4	248.53	3/4		3/4	3/4		3/4	3/4	
8	2,030.13	8	1,670.20	8	1,309.45	8	948.79	8	597.63	8	241.01	8		8	8		8	8	
1/4	2,022.64	1/4	1,662.68	1/4	1,301.94	1/4	941.28	1/4	590.40	1/4	233.49	1/4		1/4	1/4		1/4	1/4	
1/2	2,015.14	1/2	1,655.16	1/2	1,294.42	1/2	933.78	1/2	583.17	1/2	225.97	1/2		1/2	1/2		1/2	1/2	
3/4	2,007.65	3/4	1,647.65	3/4	1,286.90	3/4	926.27	3/4	575.94	3/4	218.45	3/4		3/4	3/4		3/4	3/4	
9	2,000.15	9	1,640.13	9	1,279.39	9	918.76	9	568.71	9	210.93	9		9	9		9	9	
1/4	1,992.65	1/4	1,632.62	1/4	1,271.87	1/4	911.26	1/4	561.48	1/4	203.41	1/4		1/4	1/4		1/4	1/4	
1/2	1,985.16	1/2	1,625.10	1/2	1,264.36	1/2	903.75	1/2	554.25	1/2	195.89	1/2		1/2	1/2		1/2	1/2	
3/4	1,977.66	3/4	1,617.59	3/4	1,256.84	3/4	896.24	3/4	547.02	3/4	188.37	3/4		3/4	3/4		3/4	3/4	
10	1,970.17	10	1,610.07	10	1,249.33	10	888.74	10	539.80	10	180.85	10		10	10		10	10	
1/4	1,962.67	1/4	1,602.56	1/4	1,241.81	1/4	881.23	1/4	532.57	1/4	173.33	1/4		1/4	1/4		1/4	1/4	
1/2	1,955.17	1/2	1,595.04	1/2	1,234.30	1/2	873.72	1/2	525.34	1/2	165.81	1/2		1/2	1/2		1/2	1/2	
3/4	1,947.68	3/4	1,587.52	3/4	1,226.78	3/4	866.22	3/4	518.11	3/4	158.29	3/4		3/4	3/4		3/4	3/4	
11	1,940.18	11	1,580.01	11	1,219.27	11	858.71	11	510.87	11	150.77	11		11	11		11	11	
1/4	1,932.69	1/4	1,572.49	1/4	1,211.75	1/4	851.20	1/4	503.63	1/4	143.25	1/4		1/4	1/4		1/4	1/4	
1/2	1,925.19	1/2	1,564.98	1/2	1,204.23	1/2	843.70	1/2	496.39	1/2	135.73	1/2		1/2	1/2		1/2	1/2	
3/4	1,917.70	3/4	1,557.46	3/4	1,196.72	3/4	836.19	3/4	489.16	3/4	128.21	3/4		3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
CALCULATED: 09/19/2012 CL
PRINTED: 09/19/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 378"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,586.26	0	4,281.34	0	3,975.10	0	3,668.86	0	3,358.09	0	2,997.74	0	2,637.25
1/4		1/4		1/4		1/4	4,579.92	1/4	4,274.96	1/4	3,968.72	1/4	3,662.48	1/4	3,350.58	1/4	2,990.23	1/4	2,629.74
1/2		1/2		1/2		1/2	4,573.57	1/2	4,268.58	1/2	3,962.34	1/2	3,656.10	1/2	3,343.07	1/2	2,982.73	1/2	2,622.23
3/4		3/4		3/4		3/4	4,567.23	3/4	4,262.20	3/4	3,955.96	3/4	3,649.72	3/4	3,335.56	3/4	2,975.22	3/4	2,614.71
1		1		1		1	4,560.89	1	4,255.82	1	3,949.58	1	3,643.34	1	3,328.04	1	2,967.72	1	2,607.20
1/4		1/4		1/4		1/4	4,554.54	1/4	4,249.44	1/4	3,943.20	1/4	3,636.96	1/4	3,320.53	1/4	2,960.21	1/4	2,599.69
1/2		1/2		1/2		1/2	4,548.20	1/2	4,243.06	1/2	3,936.82	1/2	3,630.58	1/2	3,313.02	1/2	2,952.71	1/2	2,592.17
3/4		3/4		3/4		3/4	4,541.86	3/4	4,236.68	3/4	3,930.44	3/4	3,624.20	3/4	3,305.51	3/4	2,945.20	3/4	2,584.66
2		2		2		2	4,535.51	2	4,230.30	2	3,924.06	2	3,617.82	2	3,298.00	2	2,937.70	2	2,577.15
1/4		1/4		1/4		1/4	4,529.17	1/4	4,223.92	1/4	3,917.68	1/4	3,611.44	1/4	3,290.49	1/4	2,930.19	1/4	2,569.64
1/2		1/2		1/2		1/2	4,522.83	1/2	4,217.54	1/2	3,911.30	1/2	3,605.06	1/2	3,282.97	1/2	2,922.69	1/2	2,562.12
3/4		3/4		3/4		3/4	4,516.48	3/4	4,211.16	3/4	3,904.92	3/4	3,598.68	3/4	3,275.46	3/4	2,915.18	3/4	2,554.61
3		3		3		3	4,510.14	3	4,204.78	3	3,898.54	3	3,592.30	3	3,267.95	3	2,907.68	3	2,547.10
1/4		1/4		1/4		1/4	4,503.80	1/4	4,198.40	1/4	3,892.16	1/4	3,585.92	1/4	3,260.44	1/4	2,900.17	1/4	2,539.60
1/2		1/2		1/2		1/2	4,497.45	1/2	4,192.02	1/2	3,885.78	1/2	3,579.54	1/2	3,252.93	1/2	2,892.66	1/2	2,532.09
3/4		3/4		3/4		3/4	4,491.11	3/4	4,185.64	3/4	3,879.40	3/4	3,573.16	3/4	3,245.41	3/4	2,885.16	3/4	2,524.59
4		4		4		4	4,484.77	4	4,179.26	4	3,873.02	4	3,566.78	4	3,237.90	4	2,877.65	4	2,517.08
1/4		1/4		1/4		1/4	4,478.42	1/4	4,172.88	1/4	3,866.64	1/4	3,560.40	1/4	3,230.40	1/4	2,870.14	1/4	2,509.58
1/2		1/2		1/2		1/2	4,472.08	1/2	4,166.50	1/2	3,860.26	1/2	3,554.02	1/2	3,222.89	1/2	2,862.63	1/2	2,502.08
3/4		3/4		3/4		3/4	4,465.74	3/4	4,160.12	3/4	3,853.88	3/4	3,547.64	3/4	3,215.39	3/4	2,855.12	3/4	2,494.57
5		5		5		5	4,459.39	5	4,153.74	5	3,847.50	5	3,541.26	5	3,207.89	5	2,847.60	5	2,487.07
1/4		1/4		1/4		1/4	4,453.05	1/4	4,147.36	1/4	3,841.12	1/4	3,534.88	1/4	3,200.38	1/4	2,840.09	1/4	2,479.57
1/2		1/2		1/2		1/2	4,446.70	1/2	4,140.98	1/2	3,834.74	1/2	3,528.50	1/2	3,192.88	1/2	2,832.58	1/2	2,472.06
3/4		3/4		3/4		3/4	4,440.36	3/4	4,134.60	3/4	3,828.36	3/4	3,522.12	3/4	3,185.37	3/4	2,825.07	3/4	2,464.56
6		6		6		6	4,434.02	6	4,128.22	6	3,821.98	6	3,515.74	6	3,177.87	6	2,817.55	6	2,457.06
1/4		1/4		1/4	4,737.12	1/4	4,427.67	1/4	4,121.84	1/4	3,815.60	1/4	3,509.36	1/4	3,170.36	1/4	2,810.04	1/4	2,449.55
1/2		1/2		1/2	4,731.43	1/2	4,421.33	1/2	4,115.46	1/2	3,809.22	1/2	3,502.98	1/2	3,162.86	1/2	2,802.53	1/2	2,442.05
3/4		3/4		3/4	4,725.74	3/4	4,414.99	3/4	4,109.08	3/4	3,802.84	3/4	3,496.60	3/4	3,155.35	3/4	2,795.01	3/4	2,434.55
7		7		7	4,720.05	7	4,408.64	7	4,102.70	7	3,796.46	7	3,490.22	7	3,147.85	7	2,787.50	7	2,427.04
1/4		1/4		1/4	4,713.03	1/4	4,402.30	1/4	4,096.32	1/4	3,790.08	1/4	3,483.84	1/4	3,140.34	1/4	2,779.99	1/4	2,419.54
1/2		1/2		1/2	4,706.02	1/2	4,395.96	1/2	4,089.94	1/2	3,783.70	1/2	3,477.46	1/2	3,132.84	1/2	2,772.48	1/2	2,412.03
3/4		3/4		3/4	4,699.00	3/4	4,389.61	3/4	4,083.56	3/4	3,777.32	3/4	3,471.08	3/4	3,125.33	3/4	2,764.96	3/4	2,404.53
8		8		8	4,691.99	8	4,383.27	8	4,077.18	8	3,770.94	8	3,464.70	8	3,117.83	8	2,757.45	8	2,397.03
1/4		1/4		1/4	4,684.58	1/4	4,376.93	1/4	4,070.80	1/4	3,764.56	1/4	3,458.32	1/4	3,110.32	1/4	2,749.94	1/4	2,389.52
1/2		1/2		1/2	4,677.18	1/2	4,370.58	1/2	4,064.42	1/2	3,758.18	1/2	3,451.94	1/2	3,102.82	1/2	2,742.43	1/2	2,382.02
3/4		3/4		3/4	4,669.78	3/4	4,364.24	3/4	4,058.04	3/4	3,751.80	3/4	3,445.56	3/4	3,095.31	3/4	2,734.91	3/4	2,374.52
9		9		9	4,662.38	9	4,357.90	9	4,051.66	9	3,745.42	9	3,439.18	9	3,087.80	9	2,727.40	9	2,367.01
1/4		1/4		1/4	4,656.04	1/4	4,351.52	1/4	4,045.28	1/4	3,739.04	1/4	3,432.80	1/4	3,080.30	1/4	2,719.89	1/4	2,359.51
1/2		1/2		1/2	4,649.69	1/2	4,345.14	1/2	4,038.90	1/2	3,732.66	1/2	3,426.42	1/2	3,072.79	1/2	2,712.38	1/2	2,352.01
3/4		3/4		3/4	4,643.35	3/4	4,338.76	3/4	4,032.52	3/4	3,726.28	3/4	3,420.04	3/4	3,065.29	3/4	2,704.86	3/4	2,344.50
10		10		10	4,637.01	10	4,332.38	10	4,026.14	10	3,719.90	10	3,413.66	10	3,057.78	10	2,697.35	10	2,337.00
1/4		1/4		1/4	4,630.66	1/4	4,326.00	1/4	4,019.76	1/4	3,713.52	1/4	3,407.28	1/4	3,050.28	1/4	2,689.84	1/4	2,329.49
1/2		1/2		1/2	4,624.32	1/2	4,319.62	1/2	4,013.38	1/2	3,707.14	1/2	3,400.90	1/2	3,042.77	1/2	2,682.33	1/2	2,321.99
3/4		3/4		3/4	4,617.98	3/4	4,313.24	3/4	4,007.00	3/4	3,700.76	3/4	3,394.52	3/4	3,035.27	3/4	2,674.81	3/4	2,314.49
11		11		11	4,611.63	11	4,306.86	11	4,000.62	11	3,694.38	11	3,388.14	11	3,027.76	11	2,667.30	11	2,306.98
1/4		1/4		1/4	4,605.29	1/4	4,300.48	1/4	3,994.24	1/4	3,688.00	1/4	3,380.63	1/4	3,020.26	1/4	2,659.79	1/4	2,299.47
1/2		1/2		1/2	4,598.95	1/2	4,294.10	1/2	3,987.86	1/2	3,681.62	1/2	3,373.11	1/2	3,012.75	1/2	2,652.28	1/2	2,291.96
3/4		3/4		3/4	4,592.60	3/4	4,287.72	3/4	3,981.48	3/4	3,675.24	3/4	3,365.60	3/4	3,005.25	3/4	2,644.76	3/4	2,284.44

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 52'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 378"

3 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	2,276.93	0	1,917.94	0	1,559.34	0	1,198.82	0	838.30	0	488.81	0	128.16	0		0		0	
1/4	2,269.41	1/4	1,910.51	1/4	1,551.83	1/4	1,191.31	1/4	831.02	1/4	481.29	1/4	120.65	1/4		1/4		1/4	
1/2	2,261.90	1/2	1,903.07	1/2	1,544.32	1/2	1,183.80	1/2	823.73	1/2	473.78	1/2	113.14	1/2		1/2		1/2	
3/4	2,254.39	3/4	1,895.63	3/4	1,536.81	3/4	1,176.29	3/4	816.44	3/4	466.27	3/4	105.62	3/4		3/4		3/4	
1	2,246.87	1	1,888.20	1	1,529.30	1	1,168.78	1	809.15	1	458.75	1	98.11	1		1		1	
1/4	2,239.36	1/4	1,880.76	1/4	1,521.79	1/4	1,161.27	1/4	801.86	1/4	451.24	1/4	90.60	1/4		1/4		1/4	
1/2	2,231.84	1/2	1,873.32	1/2	1,514.28	1/2	1,153.76	1/2	794.57	1/2	443.73	1/2	83.08	1/2		1/2		1/2	
3/4	2,224.33	3/4	1,865.88	3/4	1,506.77	3/4	1,146.25	3/4	787.28	3/4	436.21	3/4	75.57	3/4		3/4		3/4	
2	2,216.81	2	1,858.45	2	1,499.25	2	1,138.74	2	779.99	2	428.70	2	68.06	2		2		2	
1/4	2,209.30	1/4	1,851.01	1/4	1,491.74	1/4	1,131.23	1/4	772.70	1/4	421.19	1/4	60.81	1/4		1/4		1/4	
1/2	2,201.79	1/2	1,843.57	1/2	1,484.23	1/2	1,123.71	1/2	765.42	1/2	413.67	1/2	53.57	1/2		1/2		1/2	
3/4	2,194.27	3/4	1,836.14	3/4	1,476.72	3/4	1,116.20	3/4	758.13	3/4	406.16	3/4	46.32	3/4		3/4		3/4	
3	2,186.76	3	1,828.70	3	1,469.21	3	1,108.69	3	750.84	3	398.65	3	39.08	3		3		3	
1/4	2,179.24	1/4	1,821.26	1/4	1,461.70	1/4	1,101.18	1/4	743.56	1/4	391.13	1/4	33.70	1/4		1/4		1/4	
1/2	2,171.73	1/2	1,813.82	1/2	1,454.19	1/2	1,093.67	1/2	736.28	1/2	383.62	1/2	28.33	1/2		1/2		1/2	
3/4	2,164.22	3/4	1,806.39	3/4	1,446.68	3/4	1,086.16	3/4	729.00	3/4	376.10	3/4	22.95	3/4		3/4		3/4	
4	2,156.70	4	1,798.95	4	1,439.17	4	1,078.65	4	721.72	4	368.59	4	17.58	4		4		4	
1/4	2,149.19	1/4	1,791.51	1/4	1,431.66	1/4	1,071.14	1/4	714.45	1/4	361.08	1/4		1/4		1/4		1/4	
1/2	2,141.67	1/2	1,784.08	1/2	1,424.15	1/2	1,063.63	1/2	707.17	1/2	353.56	1/2		1/2		1/2		1/2	
3/4	2,134.16	3/4	1,776.64	3/4	1,416.64	3/4	1,056.12	3/4	699.89	3/4	346.05	3/4		3/4		3/4		3/4	
5	2,126.65	5	1,769.20	5	1,409.12	5	1,048.61	5	692.61	5	338.54	5		5		5		5	
1/4	2,119.13	1/4	1,761.77	1/4	1,401.61	1/4	1,041.10	1/4	685.33	1/4	331.02	1/4		1/4		1/4		1/4	
1/2	2,111.62	1/2	1,754.33	1/2	1,394.10	1/2	1,033.58	1/2	678.05	1/2	323.51	1/2		1/2		1/2		1/2	
3/4	2,104.10	3/4	1,746.89	3/4	1,386.59	3/4	1,026.07	3/4	670.77	3/4	316.00	3/4		3/4		3/4		3/4	
6	2,096.59	6	1,739.45	6	1,379.08	6	1,018.56	6	663.50	6	308.48	6		6		6		6	
1/4	2,089.11	1/4	1,731.98	1/4	1,371.57	1/4	1,011.05	1/4	656.22	1/4	300.97	1/4		1/4		1/4		1/4	
1/2	2,081.64	1/2	1,724.51	1/2	1,364.06	1/2	1,003.54	1/2	648.95	1/2	293.46	1/2		1/2		1/2		1/2	
3/4	2,074.16	3/4	1,717.03	3/4	1,356.55	3/4	996.03	3/4	641.67	3/4	285.94	3/4		3/4		3/4		3/4	
7	2,066.69	7	1,709.56	7	1,349.04	7	988.52	7	634.40	7	278.43	7		7		7		7	
1/4	2,059.25	1/4	1,702.05	1/4	1,341.53	1/4	981.01	1/4	627.13	1/4	270.92	1/4		1/4		1/4		1/4	
1/2	2,051.81	1/2	1,694.54	1/2	1,334.02	1/2	973.50	1/2	619.85	1/2	263.40	1/2		1/2		1/2		1/2	
3/4	2,044.38	3/4	1,687.02	3/4	1,326.51	3/4	965.99	3/4	612.58	3/4	255.89	3/4		3/4		3/4		3/4	
8	2,036.94	8	1,679.51	8	1,319.00	8	958.48	8	605.30	8	248.38	8		8		8		8	
1/4	2,029.50	1/4	1,672.00	1/4	1,311.48	1/4	950.97	1/4	598.03	1/4	240.86	1/4		1/4		1/4		1/4	
1/2	2,022.06	1/2	1,664.49	1/2	1,303.97	1/2	943.46	1/2	590.75	1/2	233.35	1/2		1/2		1/2		1/2	
3/4	2,014.63	3/4	1,656.98	3/4	1,296.46	3/4	935.94	3/4	583.47	3/4	225.84	3/4		3/4		3/4		3/4	
9	2,007.19	9	1,649.47	9	1,288.95	9	928.43	9	576.19	9	218.32	9		9		9		9	
1/4	1,999.75	1/4	1,641.96	1/4	1,281.44	1/4	920.92	1/4	568.91	1/4	210.81	1/4		1/4		1/4		1/4	
1/2	1,992.32	1/2	1,634.45	1/2	1,273.93	1/2	913.41	1/2	561.63	1/2	203.30	1/2		1/2		1/2		1/2	
3/4	1,984.88	3/4	1,626.94	3/4	1,266.42	3/4	905.90	3/4	554.35	3/4	195.78	3/4		3/4		3/4		3/4	
10	1,977.44	10	1,619.43	10	1,258.91	10	898.39	10	547.08	10	188.27	10		10		10		10	
1/4	1,970.00	1/4	1,611.92	1/4	1,251.40	1/4	890.88	1/4	539.80	1/4	180.76	1/4		1/4		1/4		1/4	
1/2	1,962.57	1/2	1,604.41	1/2	1,243.89	1/2	883.37	1/2	532.52	1/2	173.24	1/2		1/2		1/2		1/2	
3/4	1,955.13	3/4	1,596.89	3/4	1,236.38	3/4	875.86	3/4	525.24	3/4	165.73	3/4		3/4		3/4		3/4	
11	1,947.69	11	1,589.38	11	1,228.87	11	868.35	11	517.96	11	158.22	11		11		11		11	
1/4	1,940.26	1/4	1,581.87	1/4	1,221.35	1/4	860.84	1/4	510.67	1/4	150.70	1/4		1/4		1/4		1/4	
1/2	1,932.82	1/2	1,574.36	1/2	1,213.84	1/2	853.33	1/2	503.38	1/2	143.19	1/2		1/2		1/2		1/2	
3/4	1,925.38	3/4	1,566.85	3/4	1,206.33	3/4	845.81	3/4	496.10	3/4	135.68	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2012 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2012

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