



BARGE "EMS 3047"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-3/8	01-3/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 9, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3047"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,536.47	0	3,787.09	0	4,024.62	0	4,239.86	0		0		0		0		0		0	
1/4	3,541.69	1/4	3,792.25	1/4	4,029.33	1/4	4,244.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,546.92	1/2	3,797.40	1/2	4,034.03	1/2	4,248.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,552.14	3/4	3,802.56	3/4	4,038.74	3/4	4,252.52	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,557.37	1	3,807.71	1	4,043.44	1	4,256.74	1		1		1		1		1		1	
1/4	3,562.59	1/4	3,812.83	1/4	4,048.11	1/4	4,260.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,567.82	1/2	3,817.94	1/2	4,052.78	1/2	4,265.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,573.04	3/4	3,823.06	3/4	4,057.45	3/4	4,269.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,578.27	2	3,828.18	2	4,062.11	2	4,273.47	2		2		2		2		2		2	
1/4	3,583.49	1/4	3,833.26	1/4	4,066.74	1/4	4,277.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,588.72	1/2	3,838.34	1/2	4,071.37	1/2	4,281.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.94	3/4	3,843.42	3/4	4,076.00	3/4	4,285.90	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,599.17	3	3,848.50	3	4,080.64	3	4,290.05	3		3		3		3		3		3	
1/4	3,604.39	1/4	3,853.54	1/4	4,085.23	1/4	4,294.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,609.61	1/2	3,858.58	1/2	4,089.82	1/2	4,298.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,614.84	3/4	3,863.62	3/4	4,094.41	3/4	4,302.37	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,620.06	4	3,868.66	4	4,099.01	4	4,306.48	4		4		4		4		4		4	
1/4	3,625.29	1/4	3,873.67	1/4	4,103.56	1/4	4,311.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,630.51	1/2	3,878.67	1/2	4,108.12	1/2	4,315.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,635.74	3/4	3,883.68	3/4	4,112.67	3/4	4,320.39	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,640.96	5	3,888.68	5	4,117.23	5	4,325.03	5		5		5		5		5		5	
1/4	3,646.19	1/4	3,893.65	1/4	4,121.75	1/4	4,330.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,651.41	1/2	3,898.62	1/2	4,126.26	1/2	4,335.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,656.64	3/4	3,903.59	3/4	4,130.78	3/4	4,340.60	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,661.86	6	3,908.55	6	4,135.30	6	4,345.78	6		6		6		6		6		6	
1/4	3,667.09	1/4	3,913.48	1/4	4,139.78	1/4	4,350.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,672.31	1/2	3,918.41	1/2	4,144.26	1/2	4,356.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,677.53	3/4	3,923.34	3/4	4,148.74	3/4	4,361.35	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,682.76	7	3,928.27	7	4,153.22	7	4,366.54	7		7		7		7		7		7	
1/4	3,687.98	1/4	3,933.16	1/4	4,157.63	1/4	4,373.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.21	1/2	3,938.06	1/2	4,162.04	1/2	4,381.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.43	3/4	3,942.95	3/4	4,166.44	3/4	4,388.75	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,703.66	8	3,947.84	8	4,170.85	8	4,396.16	8		8		8		8		8		8	
1/4	3,708.88	1/4	3,952.70	1/4	4,175.22	1/4	4,402.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.11	1/2	3,957.55	1/2	4,179.59	1/2	4,409.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.33	3/4	3,962.41	3/4	4,183.96	3/4	4,416.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,724.56	9	3,967.26	9	4,188.33	9	4,423.03	9		9		9		9		9		9	
1/4	3,729.78	1/4	3,972.08	1/4	4,192.66	1/4	4,428.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.00	1/2	3,976.90	1/2	4,196.99	1/2	4,433.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.23	3/4	3,981.71	3/4	4,201.32	3/4	4,439.09	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,745.45	10	3,986.53	10	4,205.66	10		10		10		10		10		10		10	
1/4	3,750.67	1/4	3,991.31	1/4	4,209.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,755.89	1/2	3,996.09	1/2	4,214.24	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,761.11	3/4	4,000.87	3/4	4,218.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,766.32	11	4,005.65	11	4,222.83	11		11		11		11		11		11		11	
1/4	3,771.52	1/4	4,010.39	1/4	4,227.09	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,776.71	1/2	4,015.14	1/2	4,231.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,781.90	3/4	4,019.88	3/4	4,235.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
CALCULATED: 04/09/2014 CL
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,539.14	0	3,789.59	0	4,026.95	0	4,242.02	0		0		0		0		0		0	
1/4	3,544.36	1/4	3,794.74	1/4	4,031.65	1/4	4,246.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,549.58	1/2	3,799.89	1/2	4,036.35	1/2	4,250.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,554.81	3/4	3,805.04	3/4	4,041.05	3/4	4,254.67	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,560.03	1	3,810.19	1	4,045.75	1	4,258.89	1		1		1		1		1		1	
1/4	3,565.25	1/4	3,815.30	1/4	4,050.42	1/4	4,263.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,570.47	1/2	3,820.42	1/2	4,055.08	1/2	4,267.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,575.69	3/4	3,825.53	3/4	4,059.74	3/4	4,271.42	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,580.91	2	3,830.64	2	4,064.41	2	4,275.60	2		2		2		2		2		2	
1/4	3,586.13	1/4	3,835.72	1/4	4,069.04	1/4	4,279.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,591.35	1/2	3,840.80	1/2	4,073.66	1/2	4,283.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,596.57	3/4	3,845.87	3/4	4,078.29	3/4	4,288.03	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,601.79	3	3,850.95	3	4,082.92	3	4,292.17	3		3		3		3		3		3	
1/4	3,607.01	1/4	3,855.99	1/4	4,087.51	1/4	4,296.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,612.24	1/2	3,861.03	1/2	4,092.10	1/2	4,300.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,617.46	3/4	3,866.06	3/4	4,096.68	3/4	4,304.48	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,622.68	4	3,871.10	4	4,101.27	4	4,308.58	4		4		4		4		4		4	
1/4	3,627.90	1/4	3,876.10	1/4	4,105.83	1/4	4,313.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,633.12	1/2	3,881.10	1/2	4,110.38	1/2	4,317.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,638.34	3/4	3,886.11	3/4	4,114.93	3/4	4,322.49	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,643.56	5	3,891.11	5	4,119.48	5	4,327.12	5		5		5		5		5		5	
1/4	3,648.78	1/4	3,896.07	1/4	4,124.00	1/4	4,332.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,654.00	1/2	3,901.03	1/2	4,128.51	1/2	4,337.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,659.22	3/4	3,906.00	3/4	4,133.03	3/4	4,342.68	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,664.44	6	3,910.96	6	4,137.54	6	4,347.86	6		6		6		6		6		6	
1/4	3,669.67	1/4	3,915.89	1/4	4,142.02	1/4	4,353.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.89	1/2	3,920.81	1/2	4,146.49	1/2	4,358.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.11	3/4	3,925.74	3/4	4,150.97	3/4	4,363.41	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,685.33	7	3,930.67	7	4,155.45	7	4,368.60	7		7		7		7		7		7	
1/4	3,690.55	1/4	3,935.55	1/4	4,159.85	1/4	4,376.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.77	1/2	3,940.44	1/2	4,164.26	1/2	4,383.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.99	3/4	3,945.33	3/4	4,168.66	3/4	4,390.80	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,706.21	8	3,950.22	8	4,173.06	8	4,398.20	8		8		8		8		8		8	
1/4	3,711.43	1/4	3,955.07	1/4	4,177.43	1/4	4,404.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,716.65	1/2	3,959.92	1/2	4,181.79	1/2	4,411.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.87	3/4	3,964.78	3/4	4,186.16	3/4	4,418.35	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,727.10	9	3,969.63	9	4,190.53	9	4,425.07	9		9		9		9		9		9	
1/4	3,732.32	1/4	3,974.44	1/4	4,194.86	1/4	4,430.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,737.54	1/2	3,979.25	1/2	4,199.18	1/2	4,435.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.76	3/4	3,984.07	3/4	4,203.51	3/4	4,441.11	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,747.98	10	3,988.88	10	4,207.84	10		10		10		10		10		10		10	
1/4	3,753.19	1/4	3,993.66	1/4	4,212.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,758.41	1/2	3,998.44	1/2	4,216.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,763.62	3/4	4,003.21	3/4	4,220.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,768.84	11	4,007.99	11	4,225.01	11		11		11		11		11		11		11	
1/4	3,774.02	1/4	4,012.73	1/4	4,229.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,779.21	1/2	4,017.47	1/2	4,233.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,784.40	3/4	4,022.21	3/4	4,237.77	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 04/2014

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**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,888.98	0	4,276.85	0	4,650.66	0	5,000.35	0		0		0		0		0		0	
1/4	3,897.06	1/4	4,284.86	1/4	4,658.18	1/4	5,007.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,905.15	1/2	4,292.87	1/2	4,665.71	1/2	5,014.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,913.23	3/4	4,300.88	3/4	4,673.24	3/4	5,021.34	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,921.31	1	4,308.89	1	4,680.76	1	5,028.33	1		1		1		1		1		1	
1/4	3,929.40	1/4	4,316.85	1/4	4,688.25	1/4	5,035.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,937.48	1/2	4,324.82	1/2	4,695.73	1/2	5,042.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,945.57	3/4	4,332.79	3/4	4,703.22	3/4	5,049.20	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,953.65	2	4,340.76	2	4,710.71	2	5,056.16	2		2		2		2		2		2	
1/4	3,961.74	1/4	4,348.69	1/4	4,718.15	1/4	5,063.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.82	1/2	4,356.62	1/2	4,725.60	1/2	5,069.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.90	3/4	4,364.55	3/4	4,733.04	3/4	5,076.91	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,985.99	3	4,372.47	3	4,740.49	3	5,083.82	3		3		3		3		3		3	
1/4	3,994.07	1/4	4,380.36	1/4	4,747.89	1/4	5,090.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,002.16	1/2	4,388.25	1/2	4,755.30	1/2	5,097.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,010.24	3/4	4,396.14	3/4	4,762.70	3/4	5,104.45	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,018.33	4	4,404.03	4	4,770.11	4	5,111.32	4		4		4		4		4		4	
1/4	4,026.41	1/4	4,411.88	1/4	4,777.48	1/4	5,118.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,034.49	1/2	4,419.72	1/2	4,784.84	1/2	5,126.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,042.58	3/4	4,427.57	3/4	4,792.21	3/4	5,133.66	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,050.66	5	4,435.42	5	4,799.57	5	5,141.11	5		5		5		5		5		5	
1/4	4,058.75	1/4	4,443.23	1/4	4,806.90	1/4	5,149.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,066.83	1/2	4,451.03	1/2	4,814.22	1/2	5,157.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,074.92	3/4	4,458.84	3/4	4,821.55	3/4	5,165.22	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,083.00	6	4,466.65	6	4,828.87	6	5,173.26	6		6		6		6		6		6	
1/4	4,091.08	1/4	4,474.42	1/4	4,836.16	1/4	5,181.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,099.17	1/2	4,482.19	1/2	4,843.44	1/2	5,189.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,107.25	3/4	4,489.95	3/4	4,850.73	3/4	5,197.37	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,115.34	7	4,497.72	7	4,858.01	7	5,205.40	7		7		7		7		7		7	
1/4	4,123.42	1/4	4,505.45	1/4	4,865.21	1/4	5,213.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,131.51	1/2	4,513.17	1/2	4,872.41	1/2	5,221.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,139.59	3/4	4,520.90	3/4	4,879.60	3/4	5,229.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,147.67	8	4,528.63	8	4,886.80	8	5,237.21	8		8		8		8		8		8	
1/4	4,155.76	1/4	4,536.32	1/4	4,893.96	1/4	5,244.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,163.84	1/2	4,544.00	1/2	4,901.11	1/2	5,251.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,171.93	3/4	4,551.69	3/4	4,908.27	3/4	5,258.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,180.01	9	4,559.38	9	4,915.43	9	5,266.08	9		9		9		9		9		9	
1/4	4,188.10	1/4	4,567.02	1/4	4,922.55	1/4	5,271.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,196.18	1/2	4,574.67	1/2	4,929.66	1/2	5,277.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,204.26	3/4	4,582.32	3/4	4,936.78	3/4	5,283.32	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,212.35	10	4,589.97	10	4,943.90	10		10		10		10		10		10		10	
1/4	4,220.43	1/4	4,597.57	1/4	4,950.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,228.50	1/2	4,605.18	1/2	4,958.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,236.58	3/4	4,612.78	3/4	4,965.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,244.65	11	4,620.39	11	4,972.20	11		11		11		11		11		11		11	
1/4	4,252.70	1/4	4,627.96	1/4	4,979.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,260.75	1/2	4,635.52	1/2	4,986.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,268.80	3/4	4,643.09	3/4	4,993.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
CALCULATED: 04/09/2014 CL
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3047"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,877.56	0	4,265.77	0	4,639.91	0	4,989.92	0		0		0		0		0		0	
1/4	3,885.65	1/4	4,273.79	1/4	4,647.45	1/4	4,996.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,893.74	1/2	4,281.81	1/2	4,654.98	1/2	5,003.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.83	3/4	4,289.82	3/4	4,662.51	3/4	5,010.93	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,909.93	1	4,297.84	1	4,670.05	1	5,017.93	1		1		1		1		1		1	
1/4	3,918.02	1/4	4,305.81	1/4	4,677.54	1/4	5,024.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,926.11	1/2	4,313.79	1/2	4,685.03	1/2	5,031.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,934.20	3/4	4,321.76	3/4	4,692.52	3/4	5,038.82	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,942.29	2	4,329.74	2	4,700.02	2	5,045.78	2		2		2		2		2		2	
1/4	3,950.38	1/4	4,337.68	1/4	4,707.47	1/4	5,052.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,958.47	1/2	4,345.61	1/2	4,714.92	1/2	5,059.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,966.57	3/4	4,353.55	3/4	4,722.37	3/4	5,066.54	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,974.66	3	4,361.48	3	4,729.83	3	5,073.47	3		3		3		3		3		3	
1/4	3,982.75	1/4	4,369.38	1/4	4,737.24	1/4	5,080.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,990.84	1/2	4,377.27	1/2	4,744.65	1/2	5,087.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,998.93	3/4	4,385.17	3/4	4,752.06	3/4	5,094.11	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,007.02	4	4,393.06	4	4,759.47	4	5,100.99	4		4		4		4		4		4	
1/4	4,015.11	1/4	4,400.92	1/4	4,766.85	1/4	5,108.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,023.20	1/2	4,408.77	1/2	4,774.22	1/2	5,115.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,031.30	3/4	4,416.63	3/4	4,781.59	3/4	5,123.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,039.39	5	4,424.48	5	4,788.96	5	5,130.80	5		5		5		5		5		5	
1/4	4,047.48	1/4	4,432.30	1/4	4,796.29	1/4	5,138.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,055.57	1/2	4,440.11	1/2	4,803.63	1/2	5,146.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,063.66	3/4	4,447.93	3/4	4,810.96	3/4	5,154.94	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,071.75	6	4,455.74	6	4,818.29	6	5,162.98	6		6		6		6		6		6	
1/4	4,079.84	1/4	4,463.52	1/4	4,825.58	1/4	5,171.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,087.94	1/2	4,471.29	1/2	4,832.87	1/2	5,179.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,096.03	3/4	4,479.07	3/4	4,840.16	3/4	5,187.11	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,104.12	7	4,486.84	7	4,847.45	7	5,195.16	7		7		7		7		7		7	
1/4	4,112.21	1/4	4,494.57	1/4	4,854.66	1/4	5,203.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,120.30	1/2	4,502.31	1/2	4,861.86	1/2	5,211.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,128.39	3/4	4,510.04	3/4	4,869.07	3/4	5,219.03	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,136.48	8	4,517.78	8	4,876.27	8	5,226.99	8		8		8		8		8		8	
1/4	4,144.58	1/4	4,525.47	1/4	4,883.43	1/4	5,234.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,152.67	1/2	4,533.16	1/2	4,890.60	1/2	5,241.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,160.76	3/4	4,540.86	3/4	4,897.76	3/4	5,248.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,168.85	9	4,548.55	9	4,904.92	9	5,255.89	9		9		9		9		9		9	
1/4	4,176.94	1/4	4,556.21	1/4	4,912.05	1/4	5,261.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,185.03	1/2	4,563.86	1/2	4,919.17	1/2	5,267.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,193.12	3/4	4,571.51	3/4	4,926.29	3/4	5,273.14	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,201.22	10	4,579.17	10	4,933.42	10		10		10		10		10		10		10	
1/4	4,209.30	1/4	4,586.78	1/4	4,940.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.38	1/2	4,594.39	1/2	4,947.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.46	3/4	4,602.01	3/4	4,954.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,233.55	11	4,609.62	11	4,961.75	11		11		11		11		11		11		11	
1/4	4,241.60	1/4	4,617.19	1/4	4,968.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,249.66	1/2	4,624.77	1/2	4,975.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,257.72	3/4	4,632.34	3/4	4,982.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 04/2014

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



BARGE "EMS 3047"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,179.55	0	3,511.12	0	3,830.66	0	4,129.61	0		0		0		0		0		0	
1/4	3,186.46	1/4	3,517.96	1/4	3,837.10	1/4	4,135.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.37	1/2	3,524.81	1/2	3,843.53	1/2	4,141.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,200.28	3/4	3,531.65	3/4	3,849.97	3/4	4,147.56	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,207.20	1	3,538.50	1	3,856.40	1	4,153.54	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3,214.11	1/4	3,545.31	1/4	3,862.80	1/4	4,159.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.02	1/2	3,552.12	1/2	3,869.20	1/2	4,165.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,227.93	3/4	3,558.94	3/4	3,875.60	3/4	4,171.38	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,234.84	2	3,565.75	2	3,882.00	2	4,177.32	2	2	2	2	2	2	2	2	2	2	2	2
1/4	3,241.75	1/4	3,572.53	1/4	3,888.36	1/4	4,183.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.66	1/2	3,579.30	1/2	3,894.73	1/2	4,189.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.57	3/4	3,586.08	3/4	3,901.09	3/4	4,195.06	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,262.48	3	3,592.86	3	3,907.46	3	4,200.98	3	3	3	3	3	3	3	3	3	3	3	3
1/4	3,269.39	1/4	3,599.60	1/4	3,913.79	1/4	4,206.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,276.30	1/2	3,606.35	1/2	3,920.12	1/2	4,212.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,283.21	3/4	3,613.09	3/4	3,926.45	3/4	4,218.61	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,290.12	4	3,619.83	4	3,932.78	4	4,224.49	4	4	4	4	4	4	4	4	4	4	4	4
1/4	3,297.03	1/4	3,626.54	1/4	3,939.08	1/4	4,230.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,303.94	1/2	3,633.25	1/2	3,945.37	1/2	4,237.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,310.85	3/4	3,639.96	3/4	3,951.67	3/4	4,243.59	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,317.76	5	3,646.67	5	3,957.97	5	4,249.95	5	5	5	5	5	5	5	5	5	5	5	5
1/4	3,324.68	1/4	3,653.34	1/4	3,964.23	1/4	4,256.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.59	1/2	3,660.02	1/2	3,970.49	1/2	4,263.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,338.50	3/4	3,666.69	3/4	3,976.75	3/4	4,270.56	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,345.41	6	3,673.36	6	3,983.01	6	4,277.43	6	6	6	6	6	6	6	6	6	6	6	6
1/4	3,352.32	1/4	3,680.00	1/4	3,989.24	1/4	4,284.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,359.23	1/2	3,686.64	1/2	3,995.47	1/2	4,291.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,366.14	3/4	3,693.28	3/4	4,001.70	3/4	4,298.05	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,373.05	7	3,699.92	7	4,007.92	7	4,304.92	7	7	7	7	7	7	7	7	7	7	7	7
1/4	3,379.96	1/4	3,706.53	1/4	4,014.08	1/4	4,311.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,386.87	1/2	3,713.14	1/2	4,020.23	1/2	4,318.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,393.78	3/4	3,719.74	3/4	4,026.38	3/4	4,325.31	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,400.69	8	3,726.35	8	4,032.54	8	4,332.10	8	8	8	8	8	8	8	8	8	8	8	8
1/4	3,407.60	1/4	3,732.92	1/4	4,038.65	1/4	4,338.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,414.51	1/2	3,739.49	1/2	4,044.77	1/2	4,344.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,421.42	3/4	3,746.06	3/4	4,050.89	3/4	4,350.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,428.33	9	3,752.63	9	4,057.01	9	4,356.78	9	9	9	9	9	9	9	9	9	9	9	9
1/4	3,435.25	1/4	3,759.17	1/4	4,063.10	1/4	4,361.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,442.16	1/2	3,765.71	1/2	4,069.18	1/2	4,366.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,449.07	3/4	3,772.24	3/4	4,075.26	3/4	4,371.52	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,455.98	10	3,778.78	10	4,081.35	10	4,377.43	10	10	10	10	10	10	10	10	10	10	10	10
1/4	3,462.88	1/4	3,785.28	1/4	4,087.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,469.78	1/2	3,791.79	1/2	4,093.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,476.69	3/4	3,798.29	3/4	4,099.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,483.59	11	3,804.79	11	4,105.55	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	3,490.47	1/4	3,811.26	1/4	4,111.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,497.35	1/2	3,817.73	1/2	4,117.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,504.23	3/4	3,824.20	3/4	4,123.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
CALCULATED: 04/09/2014 CL
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3047"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,176.98	0	3,508.42	0	3,827.85	0	4,126.69	0		0		0		0		0		0	
1/4	3,183.88	1/4	3,515.26	1/4	3,834.28	1/4	4,132.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,190.79	1/2	3,522.11	1/2	3,840.71	1/2	4,138.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,197.70	3/4	3,528.95	3/4	3,847.14	3/4	4,144.62	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,204.61	1	3,535.79	1	3,853.57	1	4,150.60	1		1		1		1		1		1	
1/4	3,211.52	1/4	3,542.60	1/4	3,859.97	1/4	4,156.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.42	1/2	3,549.41	1/2	3,866.37	1/2	4,162.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.33	3/4	3,556.22	3/4	3,872.76	3/4	4,168.44	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,232.24	2	3,563.03	2	3,879.16	2	4,174.38	2		2		2		2		2		2	
1/4	3,239.15	1/4	3,569.81	1/4	3,885.52	1/4	4,180.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,246.06	1/2	3,576.58	1/2	3,891.89	1/2	4,186.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,252.96	3/4	3,583.36	3/4	3,898.25	3/4	4,192.11	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,259.87	3	3,590.13	3	3,904.61	3	4,198.02	3		3		3		3		3		3	
1/4	3,266.78	1/4	3,596.87	1/4	3,910.94	1/4	4,203.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.69	1/2	3,603.61	1/2	3,917.27	1/2	4,209.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.60	3/4	3,610.35	3/4	3,923.60	3/4	4,215.65	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,287.50	4	3,617.09	4	3,929.92	4	4,221.53	4		4		4		4		4		4	
1/4	3,294.41	1/4	3,623.80	1/4	3,936.22	1/4	4,227.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,301.32	1/2	3,630.51	1/2	3,942.51	1/2	4,234.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,308.23	3/4	3,637.21	3/4	3,948.81	3/4	4,240.62	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,315.14	5	3,643.92	5	3,955.10	5	4,246.98	5		5		5		5		5		5	
1/4	3,322.04	1/4	3,650.59	1/4	3,961.36	1/4	4,253.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,328.95	1/2	3,657.26	1/2	3,967.62	1/2	4,260.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,335.86	3/4	3,663.93	3/4	3,973.88	3/4	4,267.59	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,342.77	6	3,670.61	6	3,980.14	6	4,274.45	6		6		6		6		6		6	
1/4	3,349.68	1/4	3,677.24	1/4	3,986.36	1/4	4,281.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,356.58	1/2	3,683.88	1/2	3,992.59	1/2	4,288.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,363.49	3/4	3,690.52	3/4	3,998.81	3/4	4,295.06	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,370.40	7	3,697.16	7	4,005.04	7	4,301.93	7		7		7		7		7		7	
1/4	3,377.31	1/4	3,703.76	1/4	4,011.19	1/4	4,308.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,384.22	1/2	3,710.36	1/2	4,017.34	1/2	4,315.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,391.12	3/4	3,716.97	3/4	4,023.49	3/4	4,322.31	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,398.03	8	3,723.57	8	4,029.64	8	4,329.10	8		8		8		8		8		8	
1/4	3,404.94	1/4	3,730.14	1/4	4,035.76	1/4	4,335.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,411.85	1/2	3,736.71	1/2	4,041.88	1/2	4,341.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,418.76	3/4	3,743.28	3/4	4,047.99	3/4	4,347.60	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,425.66	9	3,749.84	9	4,054.11	9	4,353.77	9		9		9		9		9		9	
1/4	3,432.57	1/4	3,756.38	1/4	4,060.19	1/4	4,358.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,439.48	1/2	3,762.91	1/2	4,066.27	1/2	4,363.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,446.39	3/4	3,769.45	3/4	4,072.36	3/4	4,368.50	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,453.30	10	3,775.98	10	4,078.44	10		10		10		10		10		10		10	
1/4	3,460.20	1/4	3,782.48	1/4	4,084.49	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,467.10	1/2	3,788.98	1/2	4,090.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,474.01	3/4	3,795.48	3/4	4,096.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,480.91	11	3,801.98	11	4,102.63	11		11		11		11		11		11		11	
1/4	3,487.79	1/4	3,808.45	1/4	4,108.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,494.66	1/2	3,814.91	1/2	4,114.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,501.54	3/4	3,821.38	3/4	4,120.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
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PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 3047"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-5/8	- 00-5/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 9, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 3047"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4	4,368.50	1/4	4,072.36	1/4	3,769.45	1/4	3,446.39	1/4	3,114.80	1/4	2,783.22	1/4	2,451.59	1/4	2,119.95
		1/2		1/2	4,363.59	1/2	4,066.27	1/2	3,762.91	1/2	3,439.48	1/2	3,107.90	1/2	2,776.31	1/2	2,444.68	1/2	2,113.05
		3/4		3/4	4,358.68	3/4	4,060.19	3/4	3,756.38	3/4	3,432.57	3/4	3,100.99	3/4	2,769.40	3/4	2,437.77	3/4	2,106.14
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4	4,347.60	1/4	4,047.99	1/4	3,743.28	1/4	3,418.76	1/4	3,087.17	1/4	2,755.58	1/4	2,423.95	1/4	2,092.32
		1/2		1/2	4,341.43	1/2	4,041.88	1/2	3,736.71	1/2	3,411.85	1/2	3,080.26	1/2	2,748.67	1/2	2,417.04	1/2	2,085.41
		3/4		3/4	4,335.27	3/4	4,035.76	3/4	3,730.14	3/4	3,404.94	3/4	3,073.36	3/4	2,741.76	3/4	2,410.13	3/4	2,078.50
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4	4,329.10	1/4	4,029.64	1/4	3,723.57	1/4	3,398.03	1/4	3,066.45	1/4	2,734.86	1/4	2,403.22	1/4	2,071.59
		1/2		1/2	4,322.31	1/2	4,023.49	1/2	3,716.97	1/2	3,391.12	1/2	3,059.54	1/2	2,727.95	1/2	2,396.31	1/2	2,064.68
		3/4		3/4	4,315.51	3/4	4,017.34	3/4	3,710.36	3/4	3,384.22	3/4	3,052.63	3/4	2,721.04	3/4	2,389.41	3/4	2,057.77
		1/4		1/4	4,308.72	1/4	4,011.19	1/4	3,703.76	1/4	3,377.31	1/4	3,045.72	1/4	2,714.13	1/4	2,382.50	1/4	2,050.86
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4	4,301.93	1/4	4,005.04	1/4	3,697.16	1/4	3,370.40	1/4	3,038.82	1/4	2,707.22	1/4	2,375.59	1/4	2,043.96
		1/2		1/2	4,295.06	1/2	3,998.81	1/2	3,690.52	1/2	3,363.49	1/2	3,031.91	1/2	2,700.31	1/2	2,368.68	1/2	2,037.05
		3/4		3/4	4,288.19	3/4	3,992.59	3/4	3,683.88	3/4	3,356.58	3/4	3,025.00	3/4	2,693.40	3/4	2,361.77	3/4	2,030.14
		1/4		1/4	4,281.32	1/4	3,986.36	1/4	3,677.24	1/4	3,349.68	1/4	3,018.09	1/4	2,686.49	1/4	2,354.86	1/4	2,023.23
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4	4,274.45	1/4	3,980.14	1/4	3,670.61	1/4	3,342.77	1/4	3,011.18	1/4	2,679.58	1/4	2,347.95	1/4	2,016.32
		1/2		1/2	4,267.59	1/2	3,973.88	1/2	3,663.93	1/2	3,335.86	1/2	3,004.28	1/2	2,672.67	1/2	2,341.04	1/2	2,009.41
		3/4		3/4	4,260.72	3/4	3,967.62	3/4	3,657.26	3/4	3,328.95	3/4	2,997.37	3/4	2,665.77	3/4	2,334.13	3/4	2,002.50
		1/4		1/4	4,253.85	1/4	3,961.36	1/4	3,650.59	1/4	3,322.04	1/4	2,990.46	1/4	2,658.86	1/4	2,327.22	1/4	1,995.59

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 3047"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,988.68	0	1,657.05	0	1,325.42	0	993.87	0	677.84	0	383.63	0	113.06	0		0		0	
1/4	1,981.77	1/4	1,650.14	1/4	1,318.51	1/4	987.05	1/4	671.48	1/4	377.77	1/4	107.69	1/4		1/4		1/4	
1/2	1,974.87	1/2	1,643.23	1/2	1,311.60	1/2	980.22	1/2	665.13	1/2	371.91	1/2	102.32	1/2		1/2		1/2	
3/4	1,967.96	3/4	1,636.32	3/4	1,304.69	3/4	973.40	3/4	658.77	3/4	366.05	3/4	96.95	3/4		3/4		3/4	
1	1,961.05	1	1,629.42	1	1,297.78	1	966.58	1	652.42	1	360.18	1	91.58	1		1		1	
1/4	1,954.14	1/4	1,622.51	1/4	1,290.87	1/4	959.80	1/4	646.10	1/4	354.36	1/4	86.25	1/4		1/4		1/4	
1/2	1,947.23	1/2	1,615.60	1/2	1,283.97	1/2	953.01	1/2	639.79	1/2	348.54	1/2	80.93	1/2		1/2		1/2	
3/4	1,940.32	3/4	1,608.69	3/4	1,277.06	3/4	946.23	3/4	633.47	3/4	342.72	3/4	75.60	3/4		3/4		3/4	
2	1,933.41	2	1,601.78	2	1,270.15	2	939.45	2	627.16	2	336.90	2	70.27	2		2		2	
1/4	1,926.50	1/4	1,594.87	1/4	1,263.24	1/4	932.73	1/4	620.89	1/4	331.12	1/4	64.98	1/4		1/4		1/4	
1/2	1,919.59	1/2	1,587.96	1/2	1,256.33	1/2	926.00	1/2	614.61	1/2	325.34	1/2	59.69	1/2		1/2		1/2	
3/4	1,912.68	3/4	1,581.05	3/4	1,249.42	3/4	919.28	3/4	608.34	3/4	319.56	3/4	54.40	3/4		3/4		3/4	
3	1,905.78	3	1,574.14	3	1,242.51	3	912.56	3	602.07	3	313.78	3	49.11	3		3		3	
1/4	1,898.87	1/4	1,567.23	1/4	1,235.60	1/4	905.88	1/4	595.84	1/4	308.04	1/4	44.11	1/4		1/4		1/4	
1/2	1,891.96	1/2	1,560.33	1/2	1,228.69	1/2	899.19	1/2	589.61	1/2	302.30	1/2	39.11	1/2		1/2		1/2	
3/4	1,885.05	3/4	1,553.42	3/4	1,221.78	3/4	892.51	3/4	583.37	3/4	296.56	3/4	34.11	3/4		3/4		3/4	
4	1,878.14	4	1,546.51	4	1,214.88	4	885.83	4	577.14	4	290.82	4	29.11	4		4		4	
1/4	1,871.23	1/4	1,539.60	1/4	1,207.97	1/4	879.19	1/4	570.95	1/4	285.12	1/4	25.88	1/4		1/4		1/4	
1/2	1,864.32	1/2	1,532.69	1/2	1,201.06	1/2	872.55	1/2	564.76	1/2	279.42	1/2	22.65	1/2		1/2		1/2	
3/4	1,857.41	3/4	1,525.78	3/4	1,194.15	3/4	865.91	3/4	558.57	3/4	273.72	3/4	19.42	3/4		3/4		3/4	
5	1,850.50	5	1,518.87	5	1,187.24	5	859.26	5	552.38	5	268.02	5	16.19	5		5		5	
1/4	1,843.59	1/4	1,511.96	1/4	1,180.33	1/4	852.67	1/4	546.23	1/4	262.37	1/4		1/4		1/4		1/4	
1/2	1,836.69	1/2	1,505.05	1/2	1,173.42	1/2	846.07	1/2	540.08	1/2	256.71	1/2		1/2		1/2		1/2	
3/4	1,829.78	3/4	1,498.14	3/4	1,166.51	3/4	839.48	3/4	533.93	3/4	251.05	3/4		3/4		3/4		3/4	
6	1,822.87	6	1,491.24	6	1,159.60	6	832.88	6	527.78	6	245.39	6		6		6		6	
1/4	1,815.96	1/4	1,484.33	1/4	1,152.69	1/4	826.33	1/4	521.67	1/4	239.78	1/4		1/4		1/4		1/4	
1/2	1,809.05	1/2	1,477.42	1/2	1,145.79	1/2	819.77	1/2	515.56	1/2	234.16	1/2		1/2		1/2		1/2	
3/4	1,802.14	3/4	1,470.51	3/4	1,138.88	3/4	813.22	3/4	509.45	3/4	228.55	3/4		3/4		3/4		3/4	
7	1,795.23	7	1,463.60	7	1,131.97	7	806.66	7	503.35	7	222.93	7		7		7		7	
1/4	1,788.32	1/4	1,456.69	1/4	1,125.06	1/4	800.14	1/4	497.28	1/4	217.35	1/4		1/4		1/4		1/4	
1/2	1,781.41	1/2	1,449.78	1/2	1,118.15	1/2	793.63	1/2	491.21	1/2	211.78	1/2		1/2		1/2		1/2	
3/4	1,774.50	3/4	1,442.87	3/4	1,111.24	3/4	787.11	3/4	485.14	3/4	206.20	3/4		3/4		3/4		3/4	
8	1,767.60	8	1,435.96	8	1,104.33	8	780.59	8	479.07	8	200.63	8		8		8		8	
1/4	1,760.69	1/4	1,429.05	1/4	1,097.42	1/4	774.11	1/4	473.05	1/4	195.09	1/4		1/4		1/4		1/4	
1/2	1,753.78	1/2	1,422.15	1/2	1,090.51	1/2	767.64	1/2	467.02	1/2	189.56	1/2		1/2		1/2		1/2	
3/4	1,746.87	3/4	1,415.24	3/4	1,083.60	3/4	761.16	3/4	460.99	3/4	184.03	3/4		3/4		3/4		3/4	
9	1,739.96	9	1,408.33	9	1,076.70	9	754.68	9	454.97	9	178.49	9		9		9		9	
1/4	1,733.05	1/4	1,401.42	1/4	1,069.79	1/4	748.24	1/4	448.98	1/4	173.00	1/4		1/4		1/4		1/4	
1/2	1,726.14	1/2	1,394.51	1/2	1,062.88	1/2	741.81	1/2	443.00	1/2	167.50	1/2		1/2		1/2		1/2	
3/4	1,719.23	3/4	1,387.60	3/4	1,055.97	3/4	735.37	3/4	437.01	3/4	162.01	3/4		3/4		3/4		3/4	
10	1,712.32	10	1,380.69	10	1,049.06	10	728.94	10	431.03	10	156.52	10		10		10		10	
1/4	1,705.41	1/4	1,373.78	1/4	1,042.15	1/4	722.53	1/4	425.08	1/4	151.07	1/4		1/4		1/4		1/4	
1/2	1,698.51	1/2	1,366.87	1/2	1,035.24	1/2	716.12	1/2	419.14	1/2	145.61	1/2		1/2		1/2		1/2	
3/4	1,691.60	3/4	1,359.96	3/4	1,028.33	3/4	709.71	3/4	413.19	3/4	140.16	3/4		3/4		3/4		3/4	
11	1,684.69	11	1,353.06	11	1,021.42	11	703.30	11	407.25	11	134.71	11		11		11		11	
1/4	1,677.78	1/4	1,346.15	1/4	1,014.54	1/4	696.94	1/4	401.34	1/4	129.30	1/4		1/4		1/4		1/4	
1/2	1,670.87	1/2	1,339.24	1/2	1,007.65	1/2	690.57	1/2	395.44	1/2	123.89	1/2		1/2		1/2		1/2	
3/4	1,663.96	3/4	1,332.33	3/4	1,000.76	3/4	684.20	3/4	389.54	3/4	118.48	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
CALCULATED: 04/09/2014 CL
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 3047"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,976.97	0	1,645.20	0	1,313.43	0	981.87	0	665.35	0	372.03	0	102.36	0		0		0	
1/4	1,970.06	1/4	1,638.29	1/4	1,306.52	1/4	975.02	1/4	659.00	1/4	366.17	1/4	96.98	1/4		1/4		1/4	
1/2	1,963.14	1/2	1,631.38	1/2	1,299.61	1/2	968.17	1/2	652.64	1/2	360.30	1/2	91.61	1/2		1/2		1/2	
3/4	1,956.23	3/4	1,624.47	3/4	1,292.70	3/4	961.36	3/4	646.32	3/4	354.48	3/4	86.28	3/4		3/4		3/4	
1	1,949.32	1	1,617.55	1	1,285.79	1	954.56	1	640.01	1	348.65	1	80.95	1		1		1	
1/4	1,942.41	1/4	1,610.64	1/4	1,278.88	1/4	947.75	1/4	633.69	1/4	342.83	1/4	75.62	1/4		1/4		1/4	
1/2	1,935.50	1/2	1,603.73	1/2	1,271.96	1/2	940.94	1/2	627.37	1/2	337.01	1/2	70.29	1/2		1/2		1/2	
3/4	1,928.58	3/4	1,596.82	3/4	1,265.05	3/4	934.18	3/4	621.10	3/4	331.23	3/4	65.00	3/4		3/4		3/4	
2	1,921.67	2	1,589.91	2	1,258.14	2	927.43	2	614.82	2	325.44	2	59.71	2		2		2	
1/4	1,914.76	1/4	1,582.99	1/4	1,251.23	1/4	920.67	1/4	608.55	1/4	319.66	1/4	54.42	1/4		1/4		1/4	
1/2	1,907.85	1/2	1,576.08	1/2	1,244.32	1/2	913.92	1/2	602.27	1/2	313.88	1/2	49.13	1/2		1/2		1/2	
3/4	1,900.94	3/4	1,569.17	3/4	1,237.40	3/4	907.20	3/4	596.04	3/4	308.14	3/4	44.13	3/4		3/4		3/4	
3	1,894.03	3	1,562.26	3	1,230.49	3	900.49	3	589.81	3	302.40	3	39.13	3		3		3	
1/4	1,887.11	1/4	1,555.35	1/4	1,223.58	1/4	893.78	1/4	583.57	1/4	296.65	1/4	34.13	1/4		1/4		1/4	
1/2	1,880.20	1/2	1,548.44	1/2	1,216.67	1/2	887.06	1/2	577.34	1/2	290.91	1/2	29.12	1/2		1/2		1/2	
3/4	1,873.29	3/4	1,541.52	3/4	1,209.76	3/4	880.39	3/4	571.14	3/4	285.21	3/4	25.89	3/4		3/4		3/4	
4	1,866.38	4	1,534.61	4	1,202.85	4	873.72	4	564.95	4	279.51	4	22.66	4		4		4	
1/4	1,859.47	1/4	1,527.70	1/4	1,195.93	1/4	867.05	1/4	558.76	1/4	273.81	1/4	19.43	1/4		1/4		1/4	
1/2	1,852.55	1/2	1,520.79	1/2	1,189.02	1/2	860.37	1/2	552.57	1/2	268.11	1/2	16.19	1/2		1/2		1/2	
3/4	1,845.64	3/4	1,513.88	3/4	1,182.11	3/4	853.75	3/4	546.41	3/4	262.45	3/4		3/4		3/4		3/4	
5	1,838.73	5	1,506.96	5	1,175.20	5	847.12	5	540.26	5	256.79	5		5		5		5	
1/4	1,831.82	1/4	1,500.05	1/4	1,168.29	1/4	840.49	1/4	534.11	1/4	251.13	1/4		1/4		1/4		1/4	
1/2	1,824.91	1/2	1,493.14	1/2	1,161.37	1/2	833.86	1/2	527.96	1/2	245.47	1/2		1/2		1/2		1/2	
3/4	1,818.00	3/4	1,486.23	3/4	1,154.46	3/4	827.28	3/4	521.85	3/4	239.86	3/4		3/4		3/4		3/4	
6	1,811.08	6	1,479.32	6	1,147.55	6	820.69	6	515.74	6	234.24	6		6		6		6	
1/4	1,804.17	1/4	1,472.41	1/4	1,140.64	1/4	814.11	1/4	509.63	1/4	228.62	1/4		1/4		1/4		1/4	
1/2	1,797.26	1/2	1,465.49	1/2	1,133.73	1/2	807.52	1/2	503.51	1/2	223.00	1/2		1/2		1/2		1/2	
3/4	1,790.35	3/4	1,458.58	3/4	1,126.82	3/4	800.97	3/4	497.44	3/4	217.42	3/4		3/4		3/4		3/4	
7	1,783.44	7	1,451.67	7	1,119.90	7	794.42	7	491.37	7	211.85	7		7		7		7	
1/4	1,776.52	1/4	1,444.76	1/4	1,112.99	1/4	787.87	1/4	485.31	1/4	206.27	1/4		1/4		1/4		1/4	
1/2	1,769.61	1/2	1,437.85	1/2	1,106.08	1/2	781.32	1/2	479.24	1/2	200.69	1/2		1/2		1/2		1/2	
3/4	1,762.70	3/4	1,430.93	3/4	1,099.17	3/4	774.81	3/4	473.21	3/4	195.16	3/4		3/4		3/4		3/4	
8	1,755.79	8	1,424.02	8	1,092.26	8	768.31	8	467.18	8	189.62	8		8		8		8	
1/4	1,748.88	1/4	1,417.11	1/4	1,085.34	1/4	761.80	1/4	461.15	1/4	184.08	1/4		1/4		1/4		1/4	
1/2	1,741.97	1/2	1,410.20	1/2	1,078.43	1/2	755.29	1/2	455.12	1/2	178.55	1/2		1/2		1/2		1/2	
3/4	1,735.05	3/4	1,403.29	3/4	1,071.52	3/4	748.82	3/4	449.13	3/4	173.05	3/4		3/4		3/4		3/4	
9	1,728.14	9	1,396.38	9	1,064.61	9	742.35	9	443.14	9	167.56	9		9		9		9	
1/4	1,721.23	1/4	1,389.46	1/4	1,057.70	1/4	735.89	1/4	437.16	1/4	162.06	1/4		1/4		1/4		1/4	
1/2	1,714.32	1/2	1,382.55	1/2	1,050.79	1/2	729.42	1/2	431.17	1/2	156.57	1/2		1/2		1/2		1/2	
3/4	1,707.41	3/4	1,375.64	3/4	1,043.87	3/4	722.98	3/4	425.22	3/4	151.11	3/4		3/4		3/4		3/4	
10	1,700.49	10	1,368.73	10	1,036.96	10	716.54	10	419.28	10	145.66	10		10		10		10	
1/4	1,693.58	1/4	1,361.82	1/4	1,030.05	1/4	710.10	1/4	413.33	1/4	140.21	1/4		1/4		1/4		1/4	
1/2	1,686.67	1/2	1,354.90	1/2	1,023.14	1/2	703.66	1/2	407.38	1/2	134.75	1/2		1/2		1/2		1/2	
3/4	1,679.76	3/4	1,347.99	3/4	1,016.25	3/4	697.26	3/4	401.48	3/4	129.34	3/4		3/4		3/4		3/4	
11	1,672.85	11	1,341.08	11	1,009.36	11	690.86	11	395.57	11	123.93	11		11		11		11	
1/4	1,665.94	1/4	1,334.17	1/4	1,002.47	1/4	684.47	1/4	389.67	1/4	118.51	1/4		1/4		1/4		1/4	
1/2	1,659.02	1/2	1,327.26	1/2	995.57	1/2	678.07	1/2	383.76	1/2	113.10	1/2		1/2		1/2		1/2	
3/4	1,652.11	3/4	1,320.35	3/4	988.72	3/4	671.71	3/4	377.90	3/4	107.73	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
CALCULATED: 04/09/2014 CL
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3047"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,490.26	0	2,102.17	0	1,714.07	0	1,325.97	0	937.87	0	550.14	0	162.07	0					
1/4	2,482.18	1/4	2,094.08	1/4	1,705.98	1/4	1,317.88	1/4	929.78	1/4	542.05	1/4	153.99	1/4					
1/2	2,474.09	1/2	2,085.99	1/2	1,697.90	1/2	1,309.80	1/2	921.70	1/2	533.97	1/2	145.90	1/2					
3/4	2,466.01	3/4	2,077.91	3/4	1,689.81	3/4	1,301.71	3/4	913.61	3/4	525.88	3/4	137.82	3/4					
1	2,457.92	1	2,069.82	1	1,681.72	1	1,293.63	1	905.53	1	517.80	1	129.73	1					
1/4	2,449.84	1/4	2,061.74	1/4	1,673.64	1/4	1,285.54	1/4	897.44	1/4	509.71	1/4	121.65	1/4					
1/2	2,441.75	1/2	2,053.65	1/2	1,665.55	1/2	1,277.45	1/2	889.36	1/2	501.63	1/2	113.56	1/2					
3/4	2,433.67	3/4	2,045.57	3/4	1,657.47	3/4	1,269.37	3/4	881.27	3/4	493.54	3/4	105.48	3/4					
2	2,425.58	2	2,037.48	2	1,649.38	2	1,261.28	2	873.18	2	485.46	2	97.39	2					
1/4	2,417.50	1/4	2,029.40	1/4	1,641.30	1/4	1,253.20	1/4	865.10	1/4	477.37	1/4	89.31	1/4					
1/2	2,409.41	1/2	2,021.31	1/2	1,633.21	1/2	1,245.11	1/2	857.01	1/2	469.29	1/2	81.22	1/2					
3/4	2,401.32	3/4	2,013.23	3/4	1,625.13	3/4	1,237.03	3/4	848.93	3/4	461.20	3/4	73.14	3/4					
3	2,393.24	3	2,005.14	3	1,617.04	3	1,228.94	3	840.84	3	453.12	3	65.04	3					
1/4	2,385.15	1/4	1,997.05	1/4	1,608.96	1/4	1,220.86	1/4	832.76	1/4	445.03	1/4	57.55	1/4					
1/2	2,377.07	1/2	1,988.97	1/2	1,600.87	1/2	1,212.77	1/2	824.67	1/2	436.95	1/2	49.75	1/2					
3/4	2,368.98	3/4	1,980.88	3/4	1,592.78	3/4	1,204.69	3/4	816.59	3/4	428.86	3/4	41.95	3/4					
4	2,360.90	4	1,972.80	4	1,584.70	4	1,196.60	4	808.51	4	420.78	4	36.18	4					
1/4	2,352.81	1/4	1,964.71	1/4	1,576.61	1/4	1,188.51	1/4	800.44	1/4	412.70	1/4	30.41	1/4					
1/2	2,344.73	1/2	1,956.63	1/2	1,568.53	1/2	1,180.43	1/2	792.36	1/2	404.61	1/2	24.63	1/2					
3/4	2,336.64	3/4	1,948.54	3/4	1,560.44	3/4	1,172.34	3/4	784.29	3/4	396.53	3/4	18.86	3/4					
5	2,328.56	5	1,940.46	5	1,552.36	5	1,164.26	5	776.21	5	388.44	5		5					
1/4	2,320.47	1/4	1,932.37	1/4	1,544.27	1/4	1,156.17	1/4	768.14	1/4	380.36	1/4		1/4					
1/2	2,312.39	1/2	1,924.29	1/2	1,536.19	1/2	1,148.09	1/2	760.06	1/2	372.27	1/2		1/2					
3/4	2,304.30	3/4	1,916.20	3/4	1,528.10	3/4	1,140.00	3/4	751.99	3/4	364.19	3/4		3/4					
6	2,296.21	6	1,908.12	6	1,520.02	6	1,131.92	6	743.91	6	356.10	6		6					
1/4	2,288.13	1/4	1,900.03	1/4	1,511.93	1/4	1,123.83	1/4	735.84	1/4	348.02	1/4		1/4					
1/2	2,280.04	1/2	1,891.94	1/2	1,503.85	1/2	1,115.75	1/2	727.76	1/2	339.93	1/2		1/2					
3/4	2,271.96	3/4	1,883.86	3/4	1,495.76	3/4	1,107.66	3/4	719.69	3/4	331.85	3/4		3/4					
7	2,263.87	7	1,875.77	7	1,487.67	7	1,099.58	7	711.62	7	323.76	7		7					
1/4	2,255.79	1/4	1,867.69	1/4	1,479.59	1/4	1,091.49	1/4	703.55	1/4	315.68	1/4		1/4					
1/2	2,247.70	1/2	1,859.60	1/2	1,471.50	1/2	1,083.40	1/2	695.48	1/2	307.59	1/2		1/2					
3/4	2,239.62	3/4	1,851.52	3/4	1,463.42	3/4	1,075.32	3/4	687.41	3/4	299.51	3/4		3/4					
8	2,231.53	8	1,843.43	8	1,455.33	8	1,067.23	8	679.34	8	291.42	8		8					
1/4	2,223.45	1/4	1,835.35	1/4	1,447.25	1/4	1,059.15	1/4	671.26	1/4	283.34	1/4		1/4					
1/2	2,215.36	1/2	1,827.26	1/2	1,439.16	1/2	1,051.06	1/2	663.19	1/2	275.26	1/2		1/2					
3/4	2,207.28	3/4	1,819.18	3/4	1,431.08	3/4	1,042.98	3/4	655.12	3/4	267.17	3/4		3/4					
9	2,199.19	9	1,811.09	9	1,422.99	9	1,034.89	9	647.05	9	259.09	9		9					
1/4	2,191.10	1/4	1,803.01	1/4	1,414.91	1/4	1,026.81	1/4	638.97	1/4	251.00	1/4		1/4					
1/2	2,183.02	1/2	1,794.92	1/2	1,406.82	1/2	1,018.72	1/2	630.90	1/2	242.92	1/2		1/2					
3/4	2,174.93	3/4	1,786.83	3/4	1,398.74	3/4	1,010.64	3/4	622.82	3/4	234.83	3/4		3/4					
10	2,166.85	10	1,778.75	10	1,390.65	10	1,002.55	10	614.75	10	226.75	10		10					
1/4	2,158.76	1/4	1,770.66	1/4	1,382.56	1/4	994.47	1/4	606.67	1/4	218.66	1/4		1/4					
1/2	2,150.68	1/2	1,762.58	1/2	1,374.48	1/2	986.38	1/2	598.60	1/2	210.58	1/2		1/2					
3/4	2,142.59	3/4	1,754.49	3/4	1,366.39	3/4	978.29	3/4	590.52	3/4	202.49	3/4		3/4					
11	2,134.51	11	1,746.41	11	1,358.31	11	970.21	11	582.45	11	194.41	11		11					
1/4	2,126.42	1/4	1,738.32	1/4	1,350.22	1/4	962.12	1/4	574.37	1/4	186.32	1/4		1/4					
1/2	2,118.34	1/2	1,730.24	1/2	1,342.14	1/2	954.04	1/2	566.30	1/2	178.24	1/2		1/2					
3/4	2,110.25	3/4	1,722.15	3/4	1,334.05	3/4	945.95	3/4	558.22	3/4	170.15	3/4		3/4					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "EMS 3047"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 3047"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,308.37	0	1,948.87	0	1,590.34	0	1,229.61	0	868.87	0	518.27	0	158.31	0		0		0	
1/4	2,300.86	1/4	1,941.43	1/4	1,582.83	1/4	1,222.09	1/4	861.36	1/4	510.98	1/4	150.79	1/4		1/4		1/4	
1/2	2,293.34	1/2	1,933.98	1/2	1,575.31	1/2	1,214.58	1/2	853.84	1/2	503.69	1/2	143.28	1/2		1/2		1/2	
3/4	2,285.82	3/4	1,926.54	3/4	1,567.80	3/4	1,207.06	3/4	846.33	3/4	496.40	3/4	135.76	3/4		3/4		3/4	
1	2,278.30	1	1,919.10	1	1,560.28	1	1,199.55	1	838.81	1	489.10	1	128.24	1		1		1	
1/4	2,270.78	1/4	1,911.66	1/4	1,552.77	1/4	1,192.03	1/4	831.52	1/4	481.59	1/4	120.72	1/4		1/4		1/4	
1/2	2,263.26	1/2	1,904.22	1/2	1,545.25	1/2	1,184.52	1/2	824.22	1/2	474.07	1/2	113.20	1/2		1/2		1/2	
3/4	2,255.74	3/4	1,896.78	3/4	1,537.73	3/4	1,177.00	3/4	816.93	3/4	466.55	3/4	105.69	3/4		3/4		3/4	
2	2,248.23	2	1,889.33	2	1,530.22	2	1,169.48	2	809.64	2	459.03	2	98.17	2		2		2	
1/4	2,240.71	1/4	1,881.89	1/4	1,522.70	1/4	1,161.97	1/4	802.34	1/4	451.51	1/4	90.65	1/4		1/4		1/4	
1/2	2,233.19	1/2	1,874.45	1/2	1,515.19	1/2	1,154.45	1/2	795.05	1/2	444.00	1/2	83.13	1/2		1/2		1/2	
3/4	2,225.67	3/4	1,867.01	3/4	1,507.67	3/4	1,146.94	3/4	787.76	3/4	436.48	3/4	75.61	3/4		3/4		3/4	
3	2,218.15	3	1,859.57	3	1,500.16	3	1,139.42	3	780.46	3	428.96	3	68.10	3		3		3	
1/4	2,210.63	1/4	1,852.13	1/4	1,492.64	1/4	1,131.91	1/4	773.17	1/4	421.44	1/4	60.85	1/4		1/4		1/4	
1/2	2,203.11	1/2	1,844.69	1/2	1,485.13	1/2	1,124.39	1/2	765.88	1/2	413.92	1/2	53.60	1/2		1/2		1/2	
3/4	2,195.60	3/4	1,837.24	3/4	1,477.61	3/4	1,116.88	3/4	758.58	3/4	406.41	3/4	46.35	3/4		3/4		3/4	
4	2,188.08	4	1,829.80	4	1,470.10	4	1,109.36	4	751.29	4	398.89	4	39.10	4		4		4	
1/4	2,180.56	1/4	1,822.36	1/4	1,462.58	1/4	1,101.85	1/4	744.01	1/4	391.37	1/4	33.72	1/4		1/4		1/4	
1/2	2,173.04	1/2	1,814.92	1/2	1,455.07	1/2	1,094.33	1/2	736.73	1/2	383.85	1/2	28.35	1/2		1/2		1/2	
3/4	2,165.52	3/4	1,807.48	3/4	1,447.55	3/4	1,086.82	3/4	729.44	3/4	376.33	3/4	22.97	3/4		3/4		3/4	
5	2,158.00	5	1,800.04	5	1,440.04	5	1,079.30	5	722.16	5	368.82	5	17.59	5		5		5	
1/4	2,150.48	1/4	1,792.59	1/4	1,432.52	1/4	1,071.79	1/4	714.88	1/4	361.30	1/4		1/4		1/4		1/4	
1/2	2,142.97	1/2	1,785.15	1/2	1,425.01	1/2	1,064.27	1/2	707.59	1/2	353.78	1/2		1/2		1/2		1/2	
3/4	2,135.45	3/4	1,777.71	3/4	1,417.49	3/4	1,056.76	3/4	700.31	3/4	346.26	3/4		3/4		3/4		3/4	
6	2,127.93	6	1,770.27	6	1,409.97	6	1,049.24	6	693.03	6	338.74	6		6		6		6	
1/4	2,120.41	1/4	1,762.83	1/4	1,402.46	1/4	1,041.72	1/4	685.74	1/4	331.23	1/4		1/4		1/4		1/4	
1/2	2,112.89	1/2	1,755.39	1/2	1,394.94	1/2	1,034.21	1/2	678.46	1/2	323.71	1/2		1/2		1/2		1/2	
3/4	2,105.37	3/4	1,747.94	3/4	1,387.43	3/4	1,026.69	3/4	671.18	3/4	316.19	3/4		3/4		3/4		3/4	
7	2,097.85	7	1,740.50	7	1,379.91	7	1,019.18	7	663.90	7	308.67	7		7		7		7	
1/4	2,090.37	1/4	1,733.02	1/4	1,372.40	1/4	1,011.66	1/4	656.62	1/4	301.15	1/4		1/4		1/4		1/4	
1/2	2,082.89	1/2	1,725.54	1/2	1,364.88	1/2	1,004.15	1/2	649.34	1/2	293.64	1/2		1/2		1/2		1/2	
3/4	2,075.41	3/4	1,718.07	3/4	1,357.37	3/4	996.63	3/4	642.06	3/4	286.12	3/4		3/4		3/4		3/4	
8	2,067.93	8	1,710.59	8	1,349.85	8	989.12	8	634.78	8	278.60	8		8		8		8	
1/4	2,060.49	1/4	1,703.07	1/4	1,342.34	1/4	981.60	1/4	627.50	1/4	271.08	1/4		1/4		1/4		1/4	
1/2	2,053.05	1/2	1,695.56	1/2	1,334.82	1/2	974.09	1/2	620.23	1/2	263.56	1/2		1/2		1/2		1/2	
3/4	2,045.61	3/4	1,688.04	3/4	1,327.31	3/4	966.57	3/4	612.95	3/4	256.05	3/4		3/4		3/4		3/4	
9	2,038.17	9	1,680.53	9	1,319.79	9	959.06	9	605.67	9	248.53	9		9		9		9	
1/4	2,030.73	1/4	1,673.01	1/4	1,312.28	1/4	951.54	1/4	598.39	1/4	241.01	1/4		1/4		1/4		1/4	
1/2	2,023.28	1/2	1,665.49	1/2	1,304.76	1/2	944.03	1/2	591.10	1/2	233.49	1/2		1/2		1/2		1/2	
3/4	2,015.84	3/4	1,657.98	3/4	1,297.25	3/4	936.51	3/4	583.82	3/4	225.97	3/4		3/4		3/4		3/4	
10	2,008.40	10	1,650.46	10	1,289.73	10	929.00	10	576.54	10	218.46	10		10		10		10	
1/4	2,000.96	1/4	1,642.95	1/4	1,282.21	1/4	921.48	1/4	569.25	1/4	210.94	1/4		1/4		1/4		1/4	
1/2	1,993.52	1/2	1,635.43	1/2	1,274.70	1/2	913.96	1/2	561.97	1/2	203.42	1/2		1/2		1/2		1/2	
3/4	1,986.08	3/4	1,627.92	3/4	1,267.18	3/4	906.45	3/4	554.69	3/4	195.90	3/4		3/4		3/4		3/4	
11	1,978.63	11	1,620.40	11	1,259.67	11	898.93	11	547.41	11	188.38	11		11		11		11	
1/4	1,971.19	1/4	1,612.89	1/4	1,252.15	1/4	891.42	1/4	540.12	1/4	180.87	1/4		1/4		1/4		1/4	
1/2	1,963.75	1/2	1,605.37	1/2	1,244.64	1/2	883.90	1/2	532.84	1/2	173.35	1/2		1/2		1/2		1/2	
3/4	1,956.31	3/4	1,597.86	3/4	1,237.12	3/4	876.39	3/4	525.56	3/4	165.83	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 CL
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