



# BARGE "EMS 382"

## 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	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/4	- 01-1/4
2 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-1/4	- 01-1/4
3 PORT	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-3/4	01-3/4	- 02-1/8	02-1/8	- 02-5/8	02-5/8
3 STBD	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-3/4	01-3/4	- 02-1/8	02-1/8	- 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 00-1/2"  
 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 22, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 382"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.65	0	255.59	0	537.29	0	837.77	0	1,158.54	0	1,489.96	0	1,821.37	0	2,152.79	0	2,484.21	0	2,815.61
1/4	5.94	1/4	261.27	1/4	543.39	1/4	844.24	1/4	1,165.45	1/4	1,496.86	1/4	1,828.28	1/4	2,159.69	1/4	2,491.11	1/4	2,822.52
1/2	9.23	1/2	266.95	1/2	549.48	1/2	850.70	1/2	1,172.35	1/2	1,503.77	1/2	1,835.18	1/2	2,166.60	1/2	2,498.02	1/2	2,829.42
3/4	12.52	3/4	272.63	3/4	555.57	3/4	857.17	3/4	1,179.26	3/4	1,510.67	3/4	1,842.09	3/4	2,173.50	3/4	2,504.92	3/4	2,836.32
1	15.81	1	278.31	1	561.67	1	863.63	1	1,186.16	1	1,517.58	1	1,848.99	1	2,180.41	1	2,511.82	1	2,843.23
1/4	20.87	1/4	284.02	1/4	567.79	1/4	870.13	1/4	1,193.06	1/4	1,524.48	1/4	1,855.90	1/4	2,187.31	1/4	2,518.73	1/4	2,850.13
1/2	25.92	1/2	289.73	1/2	573.92	1/2	876.63	1/2	1,199.97	1/2	1,531.39	1/2	1,862.80	1/2	2,194.22	1/2	2,525.63	1/2	2,857.04
3/4	30.97	3/4	295.45	3/4	580.05	3/4	883.13	3/4	1,206.87	3/4	1,538.29	3/4	1,869.71	3/4	2,201.12	3/4	2,532.54	3/4	2,863.94
2	36.03	2	301.16	2	586.18	2	889.63	2	1,213.78	2	1,545.19	2	1,876.61	2	2,208.03	2	2,539.44	2	2,870.84
1/4	41.36	1/4	306.91	1/4	592.34	1/4	896.17	1/4	1,220.68	1/4	1,552.10	1/4	1,883.51	1/4	2,214.93	1/4	2,546.35	1/4	2,877.75
1/2	46.69	1/2	312.66	1/2	598.50	1/2	902.70	1/2	1,227.59	1/2	1,559.00	1/2	1,890.42	1/2	2,221.84	1/2	2,553.25	1/2	2,884.65
3/4	52.03	3/4	318.40	3/4	604.66	3/4	909.24	3/4	1,234.49	3/4	1,565.91	3/4	1,897.32	3/4	2,228.74	3/4	2,560.16	3/4	2,891.55
3	57.36	3	324.15	3	610.83	3	915.77	3	1,241.40	3	1,572.81	3	1,904.23	3	2,235.64	3	2,567.06	3	2,898.46
1/4	62.73	1/4	329.94	1/4	617.02	1/4	922.36	1/4	1,248.30	1/4	1,579.72	1/4	1,911.13	1/4	2,242.55	1/4	2,573.96	1/4	2,905.36
1/2	68.10	1/2	335.72	1/2	623.22	1/2	928.94	1/2	1,255.21	1/2	1,586.62	1/2	1,918.04	1/2	2,249.45	1/2	2,580.87	1/2	2,912.26
3/4	73.47	3/4	341.50	3/4	629.42	3/4	935.53	3/4	1,262.11	3/4	1,593.53	3/4	1,924.94	3/4	2,256.36	3/4	2,587.77	3/4	2,919.17
4	78.83	4	347.28	4	635.61	4	942.12	4	1,269.01	4	1,600.43	4	1,931.85	4	2,263.26	4	2,594.68	4	2,926.07
1/4	84.24	1/4	353.10	1/4	641.84	1/4	948.74	1/4	1,275.92	1/4	1,607.33	1/4	1,938.75	1/4	2,270.17	1/4	2,601.58	1/4	2,932.97
1/2	89.64	1/2	358.92	1/2	648.07	1/2	955.36	1/2	1,282.82	1/2	1,614.24	1/2	1,945.66	1/2	2,277.07	1/2	2,608.49	1/2	2,939.88
3/4	95.04	3/4	364.73	3/4	654.31	3/4	961.98	3/4	1,289.73	3/4	1,621.14	3/4	1,952.56	3/4	2,283.98	3/4	2,615.39	3/4	2,946.78
5	100.45	5	370.55	5	660.54	5	968.60	5	1,296.63	5	1,628.05	5	1,959.46	5	2,290.88	5	2,622.30	5	2,953.68
1/4	105.88	1/4	376.40	1/4	666.77	1/4	975.28	1/4	1,303.54	1/4	1,634.95	1/4	1,966.37	1/4	2,297.78	1/4	2,629.20	1/4	2,960.59
1/2	111.32	1/2	382.25	1/2	673.01	1/2	981.96	1/2	1,310.44	1/2	1,641.86	1/2	1,973.27	1/2	2,304.69	1/2	2,636.11	1/2	2,967.49
3/4	116.76	3/4	388.11	3/4	679.25	3/4	988.64	3/4	1,317.35	3/4	1,648.76	3/4	1,980.18	3/4	2,311.59	3/4	2,643.01	3/4	2,974.39
6	122.19	6	393.96	6	685.48	6	995.32	6	1,324.25	6	1,655.67	6	1,987.08	6	2,318.50	6	2,649.91	6	2,981.30
1/4	127.67	1/4	399.84	1/4	691.76	1/4	1,002.03	1/4	1,331.15	1/4	1,662.57	1/4	1,993.99	1/4	2,325.40	1/4	2,656.82	1/4	2,988.20
1/2	133.14	1/2	405.73	1/2	698.03	1/2	1,008.75	1/2	1,338.06	1/2	1,669.48	1/2	2,000.89	1/2	2,332.31	1/2	2,663.72	1/2	2,995.11
3/4	138.61	3/4	411.62	3/4	704.30	3/4	1,015.46	3/4	1,344.96	3/4	1,676.38	3/4	2,007.80	3/4	2,339.21	3/4	2,670.63	3/4	3,002.01
7	144.08	7	417.50	7	710.57	7	1,022.18	7	1,351.87	7	1,683.28	7	2,014.70	7	2,346.12	7	2,677.53	7	3,008.91
1/4	149.59	1/4	423.42	1/4	716.86	1/4	1,028.93	1/4	1,358.77	1/4	1,690.19	1/4	2,021.60	1/4	2,353.02	1/4	2,684.44	1/4	3,015.82
1/2	155.10	1/2	429.34	1/2	723.16	1/2	1,035.68	1/2	1,365.68	1/2	1,697.09	1/2	2,028.51	1/2	2,359.93	1/2	2,691.34	1/2	3,022.72
3/4	160.60	3/4	435.26	3/4	729.45	3/4	1,042.43	3/4	1,372.58	3/4	1,704.00	3/4	2,035.41	3/4	2,366.83	3/4	2,698.25	3/4	3,029.62
8	166.11	8	441.18	8	735.74	8	1,049.18	8	1,379.49	8	1,710.90	8	2,042.32	8	2,373.73	8	2,705.15	8	3,036.53
1/4	171.65	1/4	447.14	1/4	742.07	1/4	1,055.96	1/4	1,386.39	1/4	1,717.81	1/4	2,049.22	1/4	2,380.64	1/4	2,712.05	1/4	3,043.43
1/2	177.19	1/2	453.09	1/2	748.40	1/2	1,062.74	1/2	1,393.30	1/2	1,724.71	1/2	2,056.13	1/2	2,387.54	1/2	2,718.96	1/2	3,050.33
3/4	182.73	3/4	459.05	3/4	754.72	3/4	1,069.53	3/4	1,400.20	3/4	1,731.62	3/4	2,063.03	3/4	2,394.45	3/4	2,725.86	3/4	3,057.24
9	188.27	9	465.00	9	761.05	9	1,076.31	9	1,407.10	9	1,738.52	9	2,069.94	9	2,401.35	9	2,732.77	9	3,064.14
1/4	193.85	1/4	470.99	1/4	767.41	1/4	1,083.13	1/4	1,414.01	1/4	1,745.42	1/4	2,076.84	1/4	2,408.26	1/4	2,739.67	1/4	3,071.04
1/2	199.42	1/2	476.98	1/2	773.77	1/2	1,089.95	1/2	1,420.91	1/2	1,752.33	1/2	2,083.75	1/2	2,415.16	1/2	2,746.58	1/2	3,077.95
3/4	205.00	3/4	482.97	3/4	780.14	3/4	1,096.76	3/4	1,427.82	3/4	1,759.23	3/4	2,090.65	3/4	2,422.07	3/4	2,753.48	3/4	3,084.85
10	210.57	10	488.96	10	786.50	10	1,103.58	10	1,434.72	10	1,766.14	10	2,097.55	10	2,428.97	10	2,760.39	10	3,091.75
1/4	216.18	1/4	494.99	1/4	792.89	1/4	1,110.44	1/4	1,441.63	1/4	1,773.04	1/4	2,104.46	1/4	2,435.87	1/4	2,767.29	1/4	3,098.66
1/2	221.79	1/2	501.01	1/2	799.28	1/2	1,117.29	1/2	1,448.53	1/2	1,779.95	1/2	2,111.36	1/2	2,442.78	1/2	2,774.19	1/2	3,105.56
3/4	227.40	3/4	507.03	3/4	805.67	3/4	1,124.14	3/4	1,455.44	3/4	1,786.85	3/4	2,118.27	3/4	2,449.68	3/4	2,781.10	3/4	3,112.46
11	233.01	11	513.06	11	812.07	11	1,130.99	11	1,462.34	11	1,793.76	11	2,125.17	11	2,456.59	11	2,788.00	11	3,119.37
1/4	238.66	1/4	519.12	1/4	818.49	1/4	1,137.88	1/4	1,469.24	1/4	1,800.66	1/4	2,132.08	1/4	2,463.49	1/4	2,794.90	1/4	3,126.27
1/2	244.30	1/2	525.18	1/2	824.92	1/2	1,144.77	1/2	1,476.15	1/2	1,807.57	1/2	2,138.98	1/2	2,470.40	1/2	2,801.81	1/2	3,133.18
3/4	249.95	3/4	531.23	3/4	831.34	3/4	1,151.66	3/4	1,483.05	3/4	1,814.47	3/4	2,145.89	3/4	2,477.30	3/4	2,808.71	3/4	3,140.08

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "EMS 382"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,146.98	0	3,478.35	0	3,809.72	0	4,140.29	0		0		0		0		0		0	
1/4	3,153.89	1/4	3,485.25	1/4	3,816.62	1/4	4,147.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,160.79	1/2	3,492.16	1/2	3,823.53	1/2	4,154.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,167.69	3/4	3,499.06	3/4	3,830.43	3/4	4,160.88	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,174.60	1	3,505.96	1	3,837.33	1	4,167.74	1		1		1		1		1		1	
1/4	3,181.50	1/4	3,512.87	1/4	3,844.24	1/4	4,174.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,188.40	1/2	3,519.77	1/2	3,851.14	1/2	4,181.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,195.31	3/4	3,526.67	3/4	3,858.04	3/4	4,188.33	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,202.21	2	3,533.58	2	3,864.95	2	4,195.19	2		2		2		2		2		2	
1/4	3,209.11	1/4	3,540.48	1/4	3,871.85	1/4	4,202.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,216.02	1/2	3,547.39	1/2	3,878.75	1/2	4,208.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,222.92	3/4	3,554.29	3/4	3,885.66	3/4	4,215.78	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,229.82	3	3,561.19	3	3,892.56	3	4,222.65	3		3		3		3		3		3	
1/4	3,236.73	1/4	3,568.10	1/4	3,899.46	1/4	4,229.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.63	1/2	3,575.00	1/2	3,906.37	1/2	4,236.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.53	3/4	3,581.90	3/4	3,913.27	3/4	4,243.24	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,257.44	4	3,588.81	4	3,920.17	4	4,250.10	4		4		4		4		4		4	
1/4	3,264.34	1/4	3,595.71	1/4	3,927.08	1/4	4,256.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,271.25	1/2	3,602.61	1/2	3,933.98	1/2	4,263.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,278.15	3/4	3,609.52	3/4	3,940.88	3/4	4,270.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,285.05	5	3,616.42	5	3,947.79	5	4,277.56	5		5		5		5		5		5	
1/4	3,291.96	1/4	3,623.32	1/4	3,954.69	1/4	4,284.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.86	1/2	3,630.23	1/2	3,961.60	1/2	4,291.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.76	3/4	3,637.13	3/4	3,968.50	3/4	4,298.15	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,312.67	6	3,644.03	6	3,975.40	6	4,305.01	6		6		6		6		6		6	
1/4	3,319.57	1/4	3,650.94	1/4	3,982.31	1/4	4,311.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,326.47	1/2	3,657.84	1/2	3,989.21	1/2	4,318.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,333.38	3/4	3,664.74	3/4	3,996.11	3/4	4,325.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,340.28	7	3,671.65	7	4,003.02	7	4,332.46	7		7		7		7		7		7	
1/4	3,347.18	1/4	3,678.55	1/4	4,009.88	1/4	4,339.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,354.09	1/2	3,685.46	1/2	4,016.74	1/2	4,346.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,360.99	3/4	3,692.36	3/4	4,023.61	3/4	4,352.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,367.89	8	3,699.26	8	4,030.47	8	4,359.62	8		8		8		8		8		8	
1/4	3,374.80	1/4	3,706.17	1/4	4,037.33	1/4	4,366.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,381.70	1/2	3,713.07	1/2	4,044.20	1/2	4,372.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,388.60	3/4	3,719.97	3/4	4,051.06	3/4	4,378.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,395.51	9	3,726.88	9	4,057.92	9	4,385.38	9		9		9		9		9		9	
1/4	3,402.41	1/4	3,733.78	1/4	4,064.79	1/4	4,390.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,409.32	1/2	3,740.68	1/2	4,071.65	1/2	4,395.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,416.22	3/4	3,747.59	3/4	4,078.51	3/4	4,401.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,423.12	10	3,754.49	10	4,085.38	10	=====	10		10		10		10		10		10	
1/4	3,430.03	1/4	3,761.39	1/4	4,092.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,436.93	1/2	3,768.30	1/2	4,099.11	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,443.83	3/4	3,775.20	3/4	4,105.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,450.74	11	3,782.10	11	4,112.83	11		11		11		11		11		11		11	
1/4	3,457.64	1/4	3,789.01	1/4	4,119.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,464.54	1/2	3,795.91	1/2	4,126.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,471.45	3/4	3,802.81	3/4	4,133.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
REPRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 382"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.66	0	255.84	0	537.79	0	839.32	0	1,160.90	0	1,492.57	0	1,824.25	0	2,155.92	0	2,487.60	0	2,819.26
1/4	5.95	1/4	261.52	1/4	543.88	1/4	845.82	1/4	1,167.81	1/4	1,499.48	1/4	1,831.16	1/4	2,162.83	1/4	2,494.51	1/4	2,826.17
1/2	9.25	1/2	267.20	1/2	549.98	1/2	852.32	1/2	1,174.72	1/2	1,506.39	1/2	1,838.07	1/2	2,169.74	1/2	2,501.42	1/2	2,833.08
3/4	12.54	3/4	272.89	3/4	556.08	3/4	858.82	3/4	1,181.63	3/4	1,513.30	3/4	1,844.98	3/4	2,176.65	3/4	2,508.33	3/4	2,839.99
1	15.84	1	278.57	1	562.18	1	865.32	1	1,188.54	1	1,520.21	1	1,851.89	1	2,183.56	1	2,515.24	1	2,846.90
1/4	20.90	1/4	284.29	1/4	568.31	1/4	871.86	1/4	1,195.45	1/4	1,527.12	1/4	1,858.80	1/4	2,190.47	1/4	2,522.15	1/4	2,853.81
1/2	25.95	1/2	290.01	1/2	574.44	1/2	878.39	1/2	1,202.36	1/2	1,534.03	1/2	1,865.71	1/2	2,197.38	1/2	2,529.06	1/2	2,860.72
3/4	31.01	3/4	295.73	3/4	580.58	3/4	884.92	3/4	1,209.27	3/4	1,540.94	3/4	1,872.62	3/4	2,204.29	3/4	2,535.97	3/4	2,867.63
2	36.07	2	301.45	2	586.71	2	891.46	2	1,216.18	2	1,547.85	2	1,879.53	2	2,211.20	2	2,542.88	2	2,874.54
1/4	41.41	1/4	307.20	1/4	592.88	1/4	898.03	1/4	1,223.09	1/4	1,554.76	1/4	1,886.44	1/4	2,218.11	1/4	2,549.79	1/4	2,881.44
1/2	46.74	1/2	312.95	1/2	599.04	1/2	904.60	1/2	1,230.00	1/2	1,561.67	1/2	1,893.35	1/2	2,225.02	1/2	2,556.70	1/2	2,888.35
3/4	52.08	3/4	318.71	3/4	605.21	3/4	911.16	3/4	1,236.91	3/4	1,568.58	3/4	1,900.26	3/4	2,231.93	3/4	2,563.61	3/4	2,895.26
3	57.42	3	324.46	3	611.38	3	917.73	3	1,243.82	3	1,575.49	3	1,907.17	3	2,238.84	3	2,570.52	3	2,902.17
1/4	62.80	1/4	330.25	1/4	617.58	1/4	924.35	1/4	1,250.73	1/4	1,582.40	1/4	1,914.08	1/4	2,245.75	1/4	2,577.43	1/4	2,909.08
1/2	68.17	1/2	336.03	1/2	623.78	1/2	930.97	1/2	1,257.64	1/2	1,589.31	1/2	1,920.99	1/2	2,252.66	1/2	2,584.34	1/2	2,915.99
3/4	73.54	3/4	341.82	3/4	629.99	3/4	937.58	3/4	1,264.54	3/4	1,596.22	3/4	1,927.90	3/4	2,259.57	3/4	2,591.25	3/4	2,922.90
4	78.92	4	347.61	4	636.19	4	944.20	4	1,271.45	4	1,603.13	4	1,934.81	4	2,266.48	4	2,598.16	4	2,929.81
1/4	84.32	1/4	353.43	1/4	642.42	1/4	950.85	1/4	1,278.36	1/4	1,610.04	1/4	1,941.72	1/4	2,273.39	1/4	2,605.07	1/4	2,936.72
1/2	89.73	1/2	359.25	1/2	648.66	1/2	957.50	1/2	1,285.27	1/2	1,616.95	1/2	1,948.63	1/2	2,280.30	1/2	2,611.98	1/2	2,943.62
3/4	95.14	3/4	365.08	3/4	654.90	3/4	964.15	3/4	1,292.18	3/4	1,623.86	3/4	1,955.53	3/4	2,287.21	3/4	2,618.89	3/4	2,950.53
5	100.55	5	370.90	5	661.13	5	970.80	5	1,299.09	5	1,630.77	5	1,962.44	5	2,294.12	5	2,625.80	5	2,957.44
1/4	105.99	1/4	376.75	1/4	667.40	1/4	977.49	1/4	1,306.00	1/4	1,637.68	1/4	1,969.35	1/4	2,301.03	1/4	2,632.71	1/4	2,964.35
1/2	111.43	1/2	382.61	1/2	673.68	1/2	984.17	1/2	1,312.91	1/2	1,644.59	1/2	1,976.26	1/2	2,307.94	1/2	2,639.62	1/2	2,971.26
3/4	116.87	3/4	388.47	3/4	679.95	3/4	990.86	3/4	1,319.82	3/4	1,651.50	3/4	1,983.17	3/4	2,314.85	3/4	2,646.52	3/4	2,978.17
6	122.32	6	394.32	6	686.22	6	997.54	6	1,326.73	6	1,658.41	6	1,990.08	6	2,321.76	6	2,653.43	6	2,985.08
1/4	127.79	1/4	400.22	1/4	692.52	1/4	1,004.26	1/4	1,333.64	1/4	1,665.32	1/4	1,996.99	1/4	2,328.67	1/4	2,660.34	1/4	2,991.99
1/2	133.27	1/2	406.11	1/2	698.83	1/2	1,010.98	1/2	1,340.55	1/2	1,672.23	1/2	2,003.90	1/2	2,335.58	1/2	2,667.25	1/2	2,998.90
3/4	138.75	3/4	412.00	3/4	705.13	3/4	1,017.70	3/4	1,347.46	3/4	1,679.14	3/4	2,010.81	3/4	2,342.49	3/4	2,674.16	3/4	3,005.80
7	144.22	7	417.89	7	711.44	7	1,024.42	7	1,354.37	7	1,686.05	7	2,017.72	7	2,349.40	7	2,681.07	7	3,012.71
1/4	149.74	1/4	423.81	1/4	717.77	1/4	1,031.18	1/4	1,361.28	1/4	1,692.96	1/4	2,024.63	1/4	2,356.31	1/4	2,687.98	1/4	3,019.62
1/2	155.25	1/2	429.74	1/2	724.09	1/2	1,037.93	1/2	1,368.19	1/2	1,699.87	1/2	2,031.54	1/2	2,363.22	1/2	2,694.89	1/2	3,026.53
3/4	160.76	3/4	435.67	3/4	730.42	3/4	1,044.69	3/4	1,375.10	3/4	1,706.78	3/4	2,038.45	3/4	2,370.13	3/4	2,701.80	3/4	3,033.44
8	166.27	8	441.59	8	736.75	8	1,051.44	8	1,382.01	8	1,713.69	8	2,045.36	8	2,377.04	8	2,708.71	8	3,040.35
1/4	171.82	1/4	447.55	1/4	743.11	1/4	1,058.23	1/4	1,388.92	1/4	1,720.60	1/4	2,052.27	1/4	2,383.95	1/4	2,715.62	1/4	3,047.26
1/2	177.36	1/2	453.51	1/2	749.47	1/2	1,065.02	1/2	1,395.83	1/2	1,727.51	1/2	2,059.18	1/2	2,390.86	1/2	2,722.53	1/2	3,054.17
3/4	182.91	3/4	459.47	3/4	755.83	3/4	1,071.81	3/4	1,402.74	3/4	1,734.42	3/4	2,066.09	3/4	2,397.77	3/4	2,729.44	3/4	3,061.08
9	188.45	9	465.43	9	762.19	9	1,078.60	9	1,409.65	9	1,741.33	9	2,073.00	9	2,404.68	9	2,736.35	9	3,067.98
1/4	194.04	1/4	471.43	1/4	768.59	1/4	1,085.42	1/4	1,416.56	1/4	1,748.24	1/4	2,079.91	1/4	2,411.59	1/4	2,743.26	1/4	3,074.89
1/2	199.62	1/2	477.42	1/2	774.99	1/2	1,092.25	1/2	1,423.47	1/2	1,755.15	1/2	2,086.82	1/2	2,418.50	1/2	2,750.17	1/2	3,081.80
3/4	205.20	3/4	483.42	3/4	781.38	3/4	1,099.07	3/4	1,430.38	3/4	1,762.06	3/4	2,093.73	3/4	2,425.41	3/4	2,757.08	3/4	3,088.71
10	210.78	10	489.41	10	787.78	10	1,105.89	10	1,437.29	10	1,768.97	10	2,100.64	10	2,432.32	10	2,763.99	10	3,095.62
1/4	216.39	1/4	495.44	1/4	794.20	1/4	1,112.75	1/4	1,444.20	1/4	1,775.88	1/4	2,107.55	1/4	2,439.23	1/4	2,770.90	1/4	3,102.53
1/2	222.01	1/2	501.47	1/2	800.63	1/2	1,119.61	1/2	1,451.11	1/2	1,782.79	1/2	2,114.46	1/2	2,446.14	1/2	2,777.81	1/2	3,109.44
3/4	227.62	3/4	507.50	3/4	807.06	3/4	1,126.47	3/4	1,458.02	3/4	1,789.70	3/4	2,121.37	3/4	2,453.05	3/4	2,784.72	3/4	3,116.35
11	233.24	11	513.53	11	813.48	11	1,133.33	11	1,464.93	11	1,796.61	11	2,128.28	11	2,459.96	11	2,791.63	11	3,123.26
1/4	238.89	1/4	519.59	1/4	819.94	1/4	1,140.22	1/4	1,471.84	1/4	1,803.52	1/4	2,135.19	1/4	2,466.87	1/4	2,798.54	1/4	3,130.16
1/2	244.54	1/2	525.66	1/2	826.40	1/2	1,147.11	1/2	1,478.75	1/2	1,810.43	1/2	2,142.10	1/2	2,473.78	1/2	2,805.45	1/2	3,137.07
3/4	250.19	3/4	531.72	3/4	832.86	3/4	1,154.00	3/4	1,485.66	3/4	1,817.34	3/4	2,149.01	3/4	2,480.69	3/4	2,812.36	3/4	3,143.98

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "EMS 382"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,150.89	0	3,482.52	0	3,814.15	0	4,144.98	0		0		0		0		0		0	
1/4	3,157.80	1/4	3,489.43	1/4	3,821.05	1/4	4,151.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,164.71	1/2	3,496.34	1/2	3,827.96	1/2	4,158.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,171.62	3/4	3,503.25	3/4	3,834.87	3/4	4,165.58	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,178.53	1	3,510.15	1	3,841.78	1	4,172.45	1		1		1		1		1		1	
1/4	3,185.44	1/4	3,517.06	1/4	3,848.69	1/4	4,179.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,192.35	1/2	3,523.97	1/2	3,855.60	1/2	4,186.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,199.25	3/4	3,530.88	3/4	3,862.51	3/4	4,193.06	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,206.16	2	3,537.79	2	3,869.42	2	4,199.93	2		2		2		2		2		2	
1/4	3,213.07	1/4	3,544.70	1/4	3,876.33	1/4	4,206.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.98	1/2	3,551.61	1/2	3,883.24	1/2	4,213.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.89	3/4	3,558.52	3/4	3,890.14	3/4	4,220.54	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,233.80	3	3,565.43	3	3,897.05	3	4,227.41	3		3		3		3		3		3	
1/4	3,240.71	1/4	3,572.33	1/4	3,903.96	1/4	4,234.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,247.62	1/2	3,579.24	1/2	3,910.87	1/2	4,241.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.53	3/4	3,586.15	3/4	3,917.78	3/4	4,248.01	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,261.43	4	3,593.06	4	3,924.69	4	4,254.88	4		4		4		4		4		4	
1/4	3,268.34	1/4	3,599.97	1/4	3,931.60	1/4	4,261.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,275.25	1/2	3,606.88	1/2	3,938.51	1/2	4,268.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,282.16	3/4	3,613.79	3/4	3,945.42	3/4	4,275.49	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,289.07	5	3,620.70	5	3,952.32	5	4,282.36	5		5		5		5		5		5	
1/4	3,295.98	1/4	3,627.61	1/4	3,959.23	1/4	4,289.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,302.89	1/2	3,634.51	1/2	3,966.14	1/2	4,296.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.80	3/4	3,641.42	3/4	3,973.05	3/4	4,302.97	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,316.71	6	3,648.33	6	3,979.96	6	4,309.84	6		6		6		6		6		6	
1/4	3,323.61	1/4	3,655.24	1/4	3,986.87	1/4	4,316.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,330.52	1/2	3,662.15	1/2	3,993.78	1/2	4,323.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.43	3/4	3,669.06	3/4	4,000.69	3/4	4,330.44	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,344.34	7	3,675.97	7	4,007.60	7	4,337.31	7		7		7		7		7		7	
1/4	3,351.25	1/4	3,682.88	1/4	4,014.46	1/4	4,344.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,358.16	1/2	3,689.79	1/2	4,021.33	1/2	4,350.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,365.07	3/4	3,696.69	3/4	4,028.20	3/4	4,357.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,371.98	8	3,703.60	8	4,035.07	8	4,364.49	8		8		8		8		8		8	
1/4	3,378.89	1/4	3,710.51	1/4	4,041.94	1/4	4,370.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,385.79	1/2	3,717.42	1/2	4,048.81	1/2	4,377.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,392.70	3/4	3,724.33	3/4	4,055.68	3/4	4,383.82	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,399.61	9	3,731.24	9	4,062.55	9	4,390.27	9		9		9		9		9		9	
1/4	3,406.52	1/4	3,738.15	1/4	4,069.42	1/4	4,395.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,413.43	1/2	3,745.06	1/2	4,076.29	1/2	4,400.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,420.34	3/4	3,751.97	3/4	4,083.16	3/4	4,405.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,427.25	10	3,758.87	10	4,090.02	10	=====	10		10		10		10		10		10	
1/4	3,434.16	1/4	3,765.78	1/4	4,096.89	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,441.07	1/2	3,772.69	1/2	4,103.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,447.97	3/4	3,779.60	3/4	4,110.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,454.88	11	3,786.51	11	4,117.50	11		11		11		11		11		11		11	
1/4	3,461.79	1/4	3,793.42	1/4	4,124.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,468.70	1/2	3,800.33	1/2	4,131.24	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,475.61	3/4	3,807.24	3/4	4,138.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
REPRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT  
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# BARGE "EMS 382"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.86	0	396.62	0	774.50	0	1,157.71	0	1,545.90	0	1,934.09	0	2,322.27	0	2,710.46	0	3,098.64	0	3,486.82
1/4	24.64	1/4	404.70	1/4	782.27	1/4	1,165.80	1/4	1,553.99	1/4	1,942.17	1/4	2,330.36	1/4	2,718.54	1/4	3,106.73	1/4	3,494.90
1/2	30.41	1/2	412.79	1/2	790.03	1/2	1,173.89	1/2	1,562.07	1/2	1,950.26	1/2	2,338.45	1/2	2,726.63	1/2	3,114.82	1/2	3,502.99
3/4	36.19	3/4	420.88	3/4	797.80	3/4	1,181.98	3/4	1,570.16	3/4	1,958.35	3/4	2,346.53	3/4	2,734.72	3/4	3,122.90	3/4	3,511.08
1	41.96	1	428.96	1	805.57	1	1,190.06	1	1,578.25	1	1,966.43	1	2,354.62	1	2,742.81	1	3,130.99	1	3,519.16
1/4	49.76	1/4	437.05	1/4	813.34	1/4	1,198.15	1/4	1,586.34	1/4	1,974.52	1/4	2,362.71	1/4	2,750.89	1/4	3,139.08	1/4	3,527.25
1/2	57.56	1/2	445.14	1/2	821.12	1/2	1,206.24	1/2	1,594.42	1/2	1,982.61	1/2	2,370.79	1/2	2,758.98	1/2	3,147.17	1/2	3,535.33
3/4	65.36	3/4	453.22	3/4	828.89	3/4	1,214.32	3/4	1,602.51	3/4	1,990.70	3/4	2,378.88	3/4	2,767.07	3/4	3,155.25	3/4	3,543.42
2	73.15	2	461.31	2	836.67	2	1,222.41	2	1,610.60	2	1,998.78	2	2,386.97	2	2,775.15	2	3,163.34	2	3,551.51
1/4	81.24	1/4	469.40	1/4	844.45	1/4	1,230.50	1/4	1,618.68	1/4	2,006.87	1/4	2,395.06	1/4	2,783.24	1/4	3,171.43	1/4	3,559.59
1/2	89.33	1/2	477.48	1/2	852.23	1/2	1,238.59	1/2	1,626.77	1/2	2,014.96	1/2	2,403.14	1/2	2,791.33	1/2	3,179.51	1/2	3,567.68
3/4	97.41	3/4	485.57	3/4	860.02	3/4	1,246.67	3/4	1,634.86	3/4	2,023.04	3/4	2,411.23	3/4	2,799.42	3/4	3,187.60	3/4	3,575.76
3	105.50	3	493.66	3	867.80	3	1,254.76	3	1,642.95	3	2,031.13	3	2,419.32	3	2,807.50	3	3,195.69	3	3,583.85
1/4	113.59	1/4	501.74	1/4	875.58	1/4	1,262.85	1/4	1,651.03	1/4	2,039.22	1/4	2,427.40	1/4	2,815.59	1/4	3,203.78	1/4	3,591.94
1/2	121.67	1/2	509.83	1/2	883.36	1/2	1,270.93	1/2	1,659.12	1/2	2,047.31	1/2	2,435.49	1/2	2,823.68	1/2	3,211.86	1/2	3,600.02
3/4	129.76	3/4	517.92	3/4	891.14	3/4	1,279.02	3/4	1,667.21	3/4	2,055.39	3/4	2,443.58	3/4	2,831.76	3/4	3,219.95	3/4	3,608.11
4	137.85	4	526.00	4	898.92	4	1,287.11	4	1,675.29	4	2,063.48	4	2,451.67	4	2,839.85	4	3,228.04	4	3,616.19
1/4	145.93	1/4	533.78	1/4	907.01	1/4	1,295.20	1/4	1,683.38	1/4	2,071.57	1/4	2,459.75	1/4	2,847.94	1/4	3,236.12	1/4	3,624.28
1/2	154.02	1/2	541.55	1/2	915.10	1/2	1,303.28	1/2	1,691.47	1/2	2,079.65	1/2	2,467.84	1/2	2,856.03	1/2	3,244.21	1/2	3,632.37
3/4	162.11	3/4	549.33	3/4	923.19	3/4	1,311.37	3/4	1,699.56	3/4	2,087.74	3/4	2,475.93	3/4	2,864.11	3/4	3,252.30	3/4	3,640.45
5	170.19	5	557.10	5	931.27	5	1,319.46	5	1,707.64	5	2,095.83	5	2,484.01	5	2,872.20	5	3,260.39	5	3,648.54
1/4	178.28	1/4	564.87	1/4	939.36	1/4	1,327.55	1/4	1,715.73	1/4	2,103.92	1/4	2,492.10	1/4	2,880.29	1/4	3,268.47	1/4	3,656.62
1/2	186.37	1/2	572.63	1/2	947.45	1/2	1,335.63	1/2	1,723.82	1/2	2,112.00	1/2	2,500.19	1/2	2,888.37	1/2	3,276.56	1/2	3,664.71
3/4	194.45	3/4	580.40	3/4	955.53	3/4	1,343.72	3/4	1,731.91	3/4	2,120.09	3/4	2,508.28	3/4	2,896.46	3/4	3,284.65	3/4	3,672.80
6	202.54	6	588.16	6	963.62	6	1,351.81	6	1,739.99	6	2,128.18	6	2,516.36	6	2,904.55	6	3,292.73	6	3,680.88
1/4	210.63	1/4	595.93	1/4	971.71	1/4	1,359.89	1/4	1,748.08	1/4	2,136.27	1/4	2,524.45	1/4	2,912.64	1/4	3,300.82	1/4	3,688.97
1/2	218.71	1/2	603.70	1/2	979.80	1/2	1,367.98	1/2	1,756.17	1/2	2,144.35	1/2	2,532.54	1/2	2,920.72	1/2	3,308.91	1/2	3,697.05
3/4	226.80	3/4	611.46	3/4	987.88	3/4	1,376.07	3/4	1,764.25	3/4	2,152.44	3/4	2,540.63	3/4	2,928.81	3/4	3,317.00	3/4	3,705.14
7	234.89	7	619.23	7	995.97	7	1,384.16	7	1,772.34	7	2,160.53	7	2,548.71	7	2,936.90	7	3,325.08	7	3,713.23
1/4	242.97	1/4	626.99	1/4	1,004.06	1/4	1,392.24	1/4	1,780.43	1/4	2,168.61	1/4	2,556.80	1/4	2,944.99	1/4	3,333.17	1/4	3,721.31
1/2	251.06	1/2	634.76	1/2	1,012.14	1/2	1,400.33	1/2	1,788.52	1/2	2,176.70	1/2	2,564.89	1/2	2,953.07	1/2	3,341.26	1/2	3,729.40
3/4	259.15	3/4	642.52	3/4	1,020.23	3/4	1,408.42	3/4	1,796.60	3/4	2,184.79	3/4	2,572.97	3/4	2,961.16	3/4	3,349.35	3/4	3,737.48
8	267.23	8	650.29	8	1,028.32	8	1,416.50	8	1,804.69	8	2,192.88	8	2,581.06	8	2,969.25	8	3,357.43	8	3,745.57
1/4	275.32	1/4	658.05	1/4	1,036.41	1/4	1,424.59	1/4	1,812.78	1/4	2,200.96	1/4	2,589.15	1/4	2,977.33	1/4	3,365.52	1/4	3,753.66
1/2	283.41	1/2	665.81	1/2	1,044.49	1/2	1,432.68	1/2	1,820.86	1/2	2,209.05	1/2	2,597.24	1/2	2,985.42	1/2	3,373.61	1/2	3,761.74
3/4	291.49	3/4	673.57	3/4	1,052.58	3/4	1,440.77	3/4	1,828.95	3/4	2,217.14	3/4	2,605.32	3/4	2,993.51	3/4	3,381.69	3/4	3,769.83
9	299.58	9	681.33	9	1,060.67	9	1,448.85	9	1,837.04	9	2,225.22	9	2,613.41	9	3,001.60	9	3,389.78	9	3,777.91
1/4	307.67	1/4	689.10	1/4	1,068.75	1/4	1,456.94	1/4	1,845.13	1/4	2,233.31	1/4	2,621.50	1/4	3,009.68	1/4	3,397.87	1/4	3,786.00
1/2	315.75	1/2	696.86	1/2	1,076.84	1/2	1,465.03	1/2	1,853.21	1/2	2,241.40	1/2	2,629.58	1/2	3,017.77	1/2	3,405.96	1/2	3,794.09
3/4	323.84	3/4	704.62	3/4	1,084.93	3/4	1,473.11	3/4	1,861.30	3/4	2,249.49	3/4	2,637.67	3/4	3,025.86	3/4	3,414.04	3/4	3,802.17
10	331.92	10	712.38	10	1,093.02	10	1,481.20	10	1,869.39	10	2,257.57	10	2,645.76	10	3,033.94	10	3,422.13	10	3,810.26
1/4	340.01	1/4	720.14	1/4	1,101.10	1/4	1,489.29	1/4	1,877.47	1/4	2,265.66	1/4	2,653.85	1/4	3,042.03	1/4	3,430.22	1/4	3,818.34
1/2	348.10	1/2	727.91	1/2	1,109.19	1/2	1,497.38	1/2	1,885.56	1/2	2,273.75	1/2	2,661.93	1/2	3,050.12	1/2	3,438.30	1/2	3,826.43
3/4	356.18	3/4	735.68	3/4	1,117.28	3/4	1,505.46	3/4	1,893.65	3/4	2,281.83	3/4	2,670.02	3/4	3,058.21	3/4	3,446.39	3/4	3,834.52
11	364.27	11	743.44	11	1,125.37	11	1,513.55	11	1,901.74	11	2,289.92	11	2,678.11	11	3,066.29	11	3,454.47	11	3,842.60
1/4	372.36	1/4	751.21	1/4	1,133.45	1/4	1,521.64	1/4	1,909.82	1/4	2,298.01	1/4	2,686.19	1/4	3,074.38	1/4	3,462.56	1/4	3,850.69
1/2	380.44	1/2	758.97	1/2	1,141.54	1/2	1,529.73	1/2	1,917.91	1/2	2,306.10	1/2	2,694.28	1/2	3,082.47	1/2	3,470.65	1/2	3,858.77
3/4	388.53	3/4	766.74	3/4	1,149.63	3/4	1,537.81	3/4	1,926.00	3/4	2,314.18	3/4	2,702.37	3/4	3,090.55	3/4	3,478.73	3/4	3,866.86

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-03" 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 382"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,874.95	0	4,263.07	0	4,651.20	0	5,038.39	0		0		0		0		0		0	
1/4	3,883.03	1/4	4,271.16	1/4	4,659.29	1/4	5,046.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,891.12	1/2	4,279.25	1/2	4,667.37	1/2	5,054.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,899.20	3/4	4,287.33	3/4	4,675.46	3/4	5,062.51	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,907.29	1	4,295.42	1	4,683.55	1	5,070.55	1		1		1		1		1		1	
1/4	3,915.38	1/4	4,303.50	1/4	4,691.63	1/4	5,078.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,923.46	1/2	4,311.59	1/2	4,699.72	1/2	5,086.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,931.55	3/4	4,319.68	3/4	4,707.80	3/4	5,094.67	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,939.63	2	4,327.76	2	4,715.89	2	5,102.71	2		2		2		2		2		2	
1/4	3,947.72	1/4	4,335.85	1/4	4,723.98	1/4	5,110.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.81	1/2	4,343.93	1/2	4,732.06	1/2	5,118.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,963.89	3/4	4,352.02	3/4	4,740.15	3/4	5,126.83	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,971.98	3	4,360.11	3	4,748.23	3	5,134.86	3		3		3		3		3		3	
1/4	3,980.06	1/4	4,368.19	1/4	4,756.32	1/4	5,142.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,988.15	1/2	4,376.28	1/2	4,764.41	1/2	5,150.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,996.24	3/4	4,384.36	3/4	4,772.49	3/4	5,158.98	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,004.32	4	4,392.45	4	4,780.58	4	5,167.02	4		4		4		4		4		4	
1/4	4,012.41	1/4	4,400.54	1/4	4,788.66	1/4	5,175.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,020.49	1/2	4,408.62	1/2	4,796.75	1/2	5,183.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,028.58	3/4	4,416.71	3/4	4,804.84	3/4	5,191.14	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,036.67	5	4,424.79	5	4,812.92	5	5,199.18	5		5		5		5		5		5	
1/4	4,044.75	1/4	4,432.88	1/4	4,821.01	1/4	5,207.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,052.84	1/2	4,440.97	1/2	4,829.09	1/2	5,215.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,060.92	3/4	4,449.05	3/4	4,837.18	3/4	5,223.30	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,069.01	6	4,457.14	6	4,845.27	6	5,231.33	6		6		6		6		6		6	
1/4	4,077.10	1/4	4,465.22	1/4	4,853.35	1/4	5,239.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,085.18	1/2	4,473.31	1/2	4,861.44	1/2	5,247.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,093.27	3/4	4,481.40	3/4	4,869.52	3/4	5,255.45	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,101.35	7	4,489.48	7	4,877.61	7	5,263.49	7		7		7		7		7		7	
1/4	4,109.44	1/4	4,497.57	1/4	4,885.65	1/4	5,271.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,117.53	1/2	4,505.65	1/2	4,893.69	1/2	5,279.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,125.61	3/4	4,513.74	3/4	4,901.73	3/4	5,287.35	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,133.70	8	4,521.83	8	4,909.77	8	5,295.30	8		8		8		8		8		8	
1/4	4,141.78	1/4	4,529.91	1/4	4,917.81	1/4	5,303.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,149.87	1/2	4,538.00	1/2	4,925.85	1/2	5,310.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,157.96	3/4	4,546.08	3/4	4,933.88	3/4	5,317.92	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,166.04	9	4,554.17	9	4,941.92	9	5,325.46	9		9		9		9		9		9	
1/4	4,174.13	1/4	4,562.26	1/4	4,949.96	1/4	5,331.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,182.21	1/2	4,570.34	1/2	4,958.00	1/2	5,337.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,190.30	3/4	4,578.43	3/4	4,966.04	3/4	5,343.81	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,198.39	10	4,586.51	10	4,974.08	10	=====	10		10		10		10		10		10	
1/4	4,206.47	1/4	4,594.60	1/4	4,982.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,214.56	1/2	4,602.69	1/2	4,990.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,222.64	3/4	4,610.77	3/4	4,998.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,230.73	11	4,618.86	11	5,006.24	11		11		11		11		11		11		11	
1/4	4,238.82	1/4	4,626.94	1/4	5,014.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,246.90	1/2	4,635.03	1/2	5,022.32	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,254.99	3/4	4,643.12	3/4	5,030.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
REPRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 382"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.86	0	396.53	0	784.29	0	1,172.35	0	1,560.44	0	1,948.54	0	2,336.64	0	2,724.74	0	3,112.84	0	3,500.93
1/4	24.63	1/4	404.61	1/4	792.36	1/4	1,180.43	1/4	1,568.53	1/4	1,956.63	1/4	2,344.73	1/4	2,732.83	1/4	3,120.93	1/4	3,509.02
1/2	30.41	1/2	412.70	1/2	800.44	1/2	1,188.52	1/2	1,576.62	1/2	1,964.71	1/2	2,352.81	1/2	2,740.91	1/2	3,129.01	1/2	3,517.10
3/4	36.18	3/4	420.78	3/4	808.51	3/4	1,196.60	3/4	1,584.70	3/4	1,972.80	3/4	2,360.90	3/4	2,749.00	3/4	3,137.10	3/4	3,525.18
1	41.95	1	428.87	1	816.59	1	1,204.69	1	1,592.79	1	1,980.89	1	2,368.98	1	2,757.08	1	3,145.18	1	3,533.27
1/4	49.75	1/4	436.95	1/4	824.67	1/4	1,212.77	1/4	1,600.87	1/4	1,988.97	1/4	2,377.07	1/4	2,765.17	1/4	3,153.27	1/4	3,541.35
1/2	57.55	1/2	445.04	1/2	832.76	1/2	1,220.86	1/2	1,608.96	1/2	1,997.06	1/2	2,385.16	1/2	2,773.25	1/2	3,161.35	1/2	3,549.44
3/4	65.34	3/4	453.12	3/4	840.84	3/4	1,228.94	3/4	1,617.04	3/4	2,005.14	3/4	2,393.24	3/4	2,781.34	3/4	3,169.44	3/4	3,557.52
2	73.14	2	461.21	2	848.93	2	1,237.03	2	1,625.13	2	2,013.23	2	2,401.33	2	2,789.43	2	3,177.52	2	3,565.61
1/4	81.22	1/4	469.29	1/4	857.01	1/4	1,245.11	1/4	1,633.21	1/4	2,021.31	1/4	2,409.41	1/4	2,797.51	1/4	3,185.61	1/4	3,573.69
1/2	89.31	1/2	477.38	1/2	865.10	1/2	1,253.20	1/2	1,641.30	1/2	2,029.40	1/2	2,417.50	1/2	2,805.60	1/2	3,193.70	1/2	3,581.77
3/4	97.39	3/4	485.46	3/4	873.19	3/4	1,261.28	3/4	1,649.38	3/4	2,037.48	3/4	2,425.58	3/4	2,813.68	3/4	3,201.78	3/4	3,589.86
3	105.48	3	493.55	3	881.27	3	1,269.37	3	1,657.47	3	2,045.57	3	2,433.67	3	2,821.77	3	3,209.87	3	3,597.94
1/4	113.56	1/4	501.63	1/4	889.36	1/4	1,277.46	1/4	1,665.55	1/4	2,053.65	1/4	2,441.75	1/4	2,829.85	1/4	3,217.95	1/4	3,606.03
1/2	121.65	1/2	509.72	1/2	897.44	1/2	1,285.54	1/2	1,673.64	1/2	2,061.74	1/2	2,449.84	1/2	2,837.94	1/2	3,226.04	1/2	3,614.11
3/4	129.73	3/4	517.80	3/4	905.53	3/4	1,293.63	3/4	1,681.73	3/4	2,069.82	3/4	2,457.92	3/4	2,846.02	3/4	3,234.12	3/4	3,622.20
4	137.82	4	525.89	4	913.61	4	1,301.71	4	1,689.81	4	2,077.91	4	2,466.01	4	2,854.11	4	3,242.21	4	3,630.28
1/4	145.90	1/4	533.97	1/4	921.70	1/4	1,309.80	1/4	1,697.90	1/4	2,086.00	1/4	2,474.09	1/4	2,862.19	1/4	3,250.29	1/4	3,638.36
1/2	153.99	1/2	542.06	1/2	929.78	1/2	1,317.88	1/2	1,705.98	1/2	2,094.08	1/2	2,482.18	1/2	2,870.28	1/2	3,258.38	1/2	3,646.45
3/4	162.07	3/4	550.14	3/4	937.87	3/4	1,325.97	3/4	1,714.07	3/4	2,102.17	3/4	2,490.27	3/4	2,878.36	3/4	3,266.46	3/4	3,654.53
5	170.16	5	558.23	5	945.95	5	1,334.05	5	1,722.15	5	2,110.25	5	2,498.35	5	2,886.45	5	3,274.55	5	3,662.62
1/4	178.24	1/4	566.30	1/4	954.04	1/4	1,342.14	1/4	1,730.24	1/4	2,118.34	1/4	2,506.44	1/4	2,894.54	1/4	3,282.63	1/4	3,670.70
1/2	186.32	1/2	574.37	1/2	962.12	1/2	1,350.22	1/2	1,738.32	1/2	2,126.42	1/2	2,514.52	1/2	2,902.62	1/2	3,290.72	1/2	3,678.79
3/4	194.41	3/4	582.45	3/4	970.21	3/4	1,358.31	3/4	1,746.41	3/4	2,134.51	3/4	2,522.61	3/4	2,910.71	3/4	3,298.81	3/4	3,686.87
6	202.49	6	590.52	6	978.30	6	1,366.39	6	1,754.49	6	2,142.59	6	2,530.69	6	2,918.79	6	3,306.89	6	3,694.95
1/4	210.58	1/4	598.60	1/4	986.38	1/4	1,374.48	1/4	1,762.58	1/4	2,150.68	1/4	2,538.78	1/4	2,926.88	1/4	3,314.98	1/4	3,703.04
1/2	218.66	1/2	606.67	1/2	994.47	1/2	1,382.57	1/2	1,770.66	1/2	2,158.76	1/2	2,546.86	1/2	2,934.96	1/2	3,323.06	1/2	3,711.12
3/4	226.75	3/4	614.75	3/4	1,002.55	3/4	1,390.65	3/4	1,778.75	3/4	2,166.85	3/4	2,554.95	3/4	2,943.05	3/4	3,331.15	3/4	3,719.21
7	234.83	7	622.82	7	1,010.64	7	1,398.74	7	1,786.84	7	2,174.93	7	2,563.03	7	2,951.13	7	3,339.23	7	3,727.29
1/4	242.92	1/4	630.90	1/4	1,018.72	1/4	1,406.82	1/4	1,794.92	1/4	2,183.02	1/4	2,571.12	1/4	2,959.22	1/4	3,347.32	1/4	3,735.38
1/2	251.00	1/2	638.97	1/2	1,026.81	1/2	1,414.91	1/2	1,803.01	1/2	2,191.11	1/2	2,579.20	1/2	2,967.30	1/2	3,355.40	1/2	3,743.46
3/4	259.09	3/4	647.05	3/4	1,034.89	3/4	1,422.99	3/4	1,811.09	3/4	2,199.19	3/4	2,587.29	3/4	2,975.39	3/4	3,363.49	3/4	3,751.54
8	267.17	8	655.12	8	1,042.98	8	1,431.08	8	1,819.18	8	2,207.28	8	2,595.38	8	2,983.47	8	3,371.57	8	3,759.63
1/4	275.26	1/4	663.19	1/4	1,051.06	1/4	1,439.16	1/4	1,827.26	1/4	2,215.36	1/4	2,603.46	1/4	2,991.56	1/4	3,379.66	1/4	3,767.71
1/2	283.34	1/2	671.26	1/2	1,059.15	1/2	1,447.25	1/2	1,835.35	1/2	2,223.45	1/2	2,611.55	1/2	2,999.65	1/2	3,387.74	1/2	3,775.80
3/4	291.43	3/4	679.33	3/4	1,067.23	3/4	1,455.33	3/4	1,843.43	3/4	2,231.53	3/4	2,619.63	3/4	3,007.73	3/4	3,395.83	3/4	3,783.88
9	299.51	9	687.40	9	1,075.32	9	1,463.42	9	1,851.52	9	2,239.62	9	2,627.72	9	3,015.82	9	3,403.92	9	3,791.97
1/4	307.60	1/4	695.48	1/4	1,083.41	1/4	1,471.50	1/4	1,859.60	1/4	2,247.70	1/4	2,635.80	1/4	3,023.90	1/4	3,412.00	1/4	3,800.05
1/2	315.68	1/2	703.55	1/2	1,091.49	1/2	1,479.59	1/2	1,867.69	1/2	2,255.79	1/2	2,643.89	1/2	3,031.99	1/2	3,420.09	1/2	3,808.13
3/4	323.77	3/4	711.62	3/4	1,099.58	3/4	1,487.68	3/4	1,875.77	3/4	2,263.87	3/4	2,651.97	3/4	3,040.07	3/4	3,428.17	3/4	3,816.22
10	331.85	10	719.69	10	1,107.66	10	1,495.76	10	1,883.86	10	2,271.96	10	2,660.06	10	3,048.16	10	3,436.26	10	3,824.30
1/4	339.94	1/4	727.76	1/4	1,115.75	1/4	1,503.85	1/4	1,891.95	1/4	2,280.04	1/4	2,668.14	1/4	3,056.24	1/4	3,444.34	1/4	3,832.39
1/2	348.02	1/2	735.84	1/2	1,123.83	1/2	1,511.93	1/2	1,900.03	1/2	2,288.13	1/2	2,676.23	1/2	3,064.33	1/2	3,452.43	1/2	3,840.47
3/4	356.11	3/4	743.91	3/4	1,131.92	3/4	1,520.02	3/4	1,908.12	3/4	2,296.22	3/4	2,684.31	3/4	3,072.41	3/4	3,460.51	3/4	3,848.56
11	364.19	11	751.99	11	1,140.00	11	1,528.10	11	1,916.20	11	2,304.30	11	2,692.40	11	3,080.50	11	3,468.59	11	3,856.64
1/4	372.28	1/4	760.26	1/4	1,148.09	1/4	1,536.19	1/4	1,924.29	1/4	2,312.39	1/4	2,700.49	1/4	3,088.58	1/4	3,476.68	1/4	3,864.72
1/2	380.36	1/2	768.14	1/2	1,156.17	1/2	1,544.27	1/2	1,932.37	1/2	2,320.47	1/2	2,708.57	1/2	3,096.67	1/2	3,484.76	1/2	3,872.81
3/4	388.44	3/4	776.21	3/4	1,164.26	3/4	1,552.36	3/4	1,940.46	3/4	2,328.56	3/4	2,716.66	3/4	3,104.76	3/4	3,492.85	3/4	3,880.89

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-03" 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 382"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,888.98	0	4,277.02	0	4,665.07	0	5,052.17	0		0		0		0		0		0	
1/4	3,897.06	1/4	4,285.11	1/4	4,673.16	1/4	5,060.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,905.15	1/2	4,293.19	1/2	4,681.24	1/2	5,068.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,913.23	3/4	4,301.28	3/4	4,689.32	3/4	5,076.28	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,921.32	1	4,309.36	1	4,697.41	1	5,084.32	1		1		1		1		1		1	
1/4	3,929.40	1/4	4,317.45	1/4	4,705.49	1/4	5,092.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,937.48	1/2	4,325.53	1/2	4,713.58	1/2	5,100.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,945.57	3/4	4,333.61	3/4	4,721.66	3/4	5,108.43	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,953.65	2	4,341.70	2	4,729.75	2	5,116.47	2		2		2		2		2		2	
1/4	3,961.74	1/4	4,349.78	1/4	4,737.83	1/4	5,124.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.82	1/2	4,357.87	1/2	4,745.91	1/2	5,132.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.91	3/4	4,365.95	3/4	4,754.00	3/4	5,140.58	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,985.99	3	4,374.04	3	4,762.08	3	5,148.62	3		3		3		3		3		3	
1/4	3,994.07	1/4	4,382.12	1/4	4,770.17	1/4	5,156.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,002.16	1/2	4,390.20	1/2	4,778.25	1/2	5,164.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,010.24	3/4	4,398.29	3/4	4,786.34	3/4	5,172.73	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,018.33	4	4,406.37	4	4,794.42	4	5,180.76	4		4		4		4		4		4	
1/4	4,026.41	1/4	4,414.46	1/4	4,802.50	1/4	5,188.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,034.50	1/2	4,422.54	1/2	4,810.59	1/2	5,196.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,042.58	3/4	4,430.63	3/4	4,818.67	3/4	5,204.87	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,050.66	5	4,438.71	5	4,826.76	5	5,212.91	5		5		5		5		5		5	
1/4	4,058.75	1/4	4,446.79	1/4	4,834.84	1/4	5,220.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,066.83	1/2	4,454.88	1/2	4,842.93	1/2	5,228.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,074.92	3/4	4,462.96	3/4	4,851.01	3/4	5,237.02	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,083.00	6	4,471.05	6	4,859.09	6	5,245.06	6		6		6		6		6		6	
1/4	4,091.09	1/4	4,479.13	1/4	4,867.18	1/4	5,253.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,099.17	1/2	4,487.22	1/2	4,875.26	1/2	5,261.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,107.25	3/4	4,495.30	3/4	4,883.35	3/4	5,269.17	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,115.34	7	4,503.38	7	4,891.43	7	5,277.21	7		7		7		7		7		7	
1/4	4,123.42	1/4	4,511.47	1/4	4,899.47	1/4	5,285.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,131.51	1/2	4,519.55	1/2	4,907.51	1/2	5,293.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,139.59	3/4	4,527.64	3/4	4,915.54	3/4	5,301.06	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,147.68	8	4,535.72	8	4,923.58	8	5,309.01	8		8		8		8		8		8	
1/4	4,155.76	1/4	4,543.81	1/4	4,931.62	1/4	5,316.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,163.84	1/2	4,551.89	1/2	4,939.65	1/2	5,324.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,171.93	3/4	4,559.97	3/4	4,947.69	3/4	5,331.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,180.01	9	4,568.06	9	4,955.73	9	5,339.17	9		9		9		9		9		9	
1/4	4,188.10	1/4	4,576.14	1/4	4,963.76	1/4	5,346.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,196.18	1/2	4,584.23	1/2	4,971.80	1/2	5,351.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,204.27	3/4	4,592.31	3/4	4,979.84	3/4	5,357.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,212.35	10	4,600.40	10	4,987.88	10	=====	10		10		10		10		10		10	
1/4	4,220.43	1/4	4,608.48	1/4	4,995.91	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,228.52	1/2	4,616.56	1/2	5,003.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,236.60	3/4	4,624.65	3/4	5,011.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,244.69	11	4,632.73	11	5,020.02	11		11		11		11		11		11		11	
1/4	4,252.77	1/4	4,640.82	1/4	5,028.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,260.86	1/2	4,648.90	1/2	5,036.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,268.94	3/4	4,656.99	3/4	5,044.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P. O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 382"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.57	0	368.93	0	720.66	0	1,076.73	0	1,437.56	0	1,798.20	0	2,158.32	0	2,519.30	0	2,880.29	0	3,240.93
1/4	22.94	1/4	376.45	1/4	727.89	1/4	1,084.25	1/4	1,445.08	1/4	1,805.70	1/4	2,165.84	1/4	2,526.82	1/4	2,887.81	1/4	3,248.45
1/2	28.32	1/2	383.97	1/2	735.12	1/2	1,091.77	1/2	1,452.60	1/2	1,813.19	1/2	2,173.36	1/2	2,534.35	1/2	2,895.32	1/2	3,255.97
3/4	33.69	3/4	391.49	3/4	742.35	3/4	1,099.28	3/4	1,460.11	3/4	1,820.69	3/4	2,180.88	3/4	2,541.87	3/4	2,902.83	3/4	3,263.49
1	39.06	1	399.02	1	749.58	1	1,106.80	1	1,467.63	1	1,828.19	1	2,188.40	1	2,549.39	1	2,910.35	1	3,271.01
1/4	46.31	1/4	406.54	1/4	756.82	1/4	1,114.32	1/4	1,475.15	1/4	1,835.69	1/4	2,195.92	1/4	2,556.91	1/4	2,917.86	1/4	3,278.53
1/2	53.56	1/2	414.06	1/2	764.07	1/2	1,121.83	1/2	1,482.67	1/2	1,843.18	1/2	2,203.44	1/2	2,564.43	1/2	2,925.37	1/2	3,286.05
3/4	60.82	3/4	421.58	3/4	771.31	3/4	1,129.35	3/4	1,490.18	3/4	1,850.68	3/4	2,210.96	3/4	2,571.95	3/4	2,932.89	3/4	3,293.57
2	68.07	2	429.10	2	778.55	2	1,136.87	2	1,497.70	2	1,858.18	2	2,218.48	2	2,579.47	2	2,940.40	2	3,301.09
1/4	75.59	1/4	436.62	1/4	785.78	1/4	1,144.39	1/4	1,505.22	1/4	1,865.68	1/4	2,226.00	1/4	2,586.99	1/4	2,947.91	1/4	3,308.61
1/2	83.11	1/2	444.14	1/2	793.01	1/2	1,151.90	1/2	1,512.73	1/2	1,873.17	1/2	2,233.52	1/2	2,594.51	1/2	2,955.43	1/2	3,316.13
3/4	90.63	3/4	451.67	3/4	800.24	3/4	1,159.42	3/4	1,520.25	3/4	1,880.67	3/4	2,241.04	3/4	2,602.03	3/4	2,962.94	3/4	3,323.65
3	98.16	3	459.19	3	807.47	3	1,166.94	3	1,527.77	3	1,888.17	3	2,248.56	3	2,609.55	3	2,970.45	3	3,331.17
1/4	105.68	1/4	466.71	1/4	814.70	1/4	1,174.46	1/4	1,535.29	1/4	1,895.67	1/4	2,256.08	1/4	2,617.07	1/4	2,977.97	1/4	3,338.69
1/2	113.20	1/2	474.23	1/2	821.93	1/2	1,181.97	1/2	1,542.80	1/2	1,903.17	1/2	2,263.60	1/2	2,624.59	1/2	2,985.48	1/2	3,346.21
3/4	120.72	3/4	481.75	3/4	829.16	3/4	1,189.49	3/4	1,550.32	3/4	1,910.66	3/4	2,271.12	3/4	2,632.11	3/4	2,992.99	3/4	3,353.73
4	128.24	4	489.27	4	836.39	4	1,197.01	4	1,557.84	4	1,918.16	4	2,278.64	4	2,639.63	4	3,000.51	4	3,361.25
1/4	135.76	1/4	496.51	1/4	843.90	1/4	1,204.53	1/4	1,565.36	1/4	1,925.66	1/4	2,286.17	1/4	2,647.15	1/4	3,008.02	1/4	3,368.77
1/2	143.28	1/2	503.75	1/2	851.41	1/2	1,212.04	1/2	1,572.87	1/2	1,933.16	1/2	2,293.69	1/2	2,654.67	1/2	3,015.53	1/2	3,376.29
3/4	150.81	3/4	510.99	3/4	858.92	3/4	1,219.56	3/4	1,580.39	3/4	1,940.65	3/4	2,301.21	3/4	2,662.20	3/4	3,023.05	3/4	3,383.81
5	158.33	5	518.23	5	866.43	5	1,227.08	5	1,587.91	5	1,948.15	5	2,308.73	5	2,669.72	5	3,030.56	5	3,391.33
1/4	165.85	1/4	525.47	1/4	873.94	1/4	1,234.59	1/4	1,595.42	1/4	1,955.65	1/4	2,316.25	1/4	2,677.24	1/4	3,038.07	1/4	3,397.70
1/2	173.37	1/2	532.70	1/2	881.44	1/2	1,242.11	1/2	1,602.94	1/2	1,963.15	1/2	2,323.77	1/2	2,684.76	1/2	3,045.59	1/2	3,404.08
3/4	180.89	3/4	539.93	3/4	888.95	3/4	1,249.63	3/4	1,610.46	3/4	1,970.64	3/4	2,331.29	3/4	2,692.28	3/4	3,053.10	3/4	3,410.46
6	188.41	6	547.16	6	896.46	6	1,257.15	6	1,617.98	6	1,978.14	6	2,338.81	6	2,699.80	6	3,060.61	6	3,416.83
1/4	195.94	1/4	554.39	1/4	903.97	1/4	1,264.66	1/4	1,625.49	1/4	1,985.64	1/4	2,346.33	1/4	2,707.32	1/4	3,068.13	1/4	3,423.21
1/2	203.46	1/2	561.62	1/2	911.48	1/2	1,272.18	1/2	1,633.01	1/2	1,993.14	1/2	2,353.85	1/2	2,714.84	1/2	3,075.64	1/2	3,429.59
3/4	210.98	3/4	568.85	3/4	918.98	3/4	1,279.70	3/4	1,640.53	3/4	2,000.63	3/4	2,361.37	3/4	2,722.36	3/4	3,083.15	3/4	3,435.97
7	218.50	7	576.08	7	926.49	7	1,287.22	7	1,648.05	7	2,008.13	7	2,368.89	7	2,729.88	7	3,090.67	7	3,442.34
1/4	226.02	1/4	583.31	1/4	934.00	1/4	1,294.73	1/4	1,655.56	1/4	2,015.63	1/4	2,376.41	1/4	2,737.40	1/4	3,098.18	1/4	3,448.72
1/2	233.54	1/2	590.54	1/2	941.51	1/2	1,302.25	1/2	1,663.08	1/2	2,023.13	1/2	2,383.93	1/2	2,744.92	1/2	3,105.69	1/2	3,455.10
3/4	241.06	3/4	597.77	3/4	949.02	3/4	1,309.77	3/4	1,670.60	3/4	2,030.62	3/4	2,391.45	3/4	2,752.44	3/4	3,113.21	3/4	3,461.47
8	248.59	8	605.00	8	956.53	8	1,317.28	8	1,678.12	8	2,038.12	8	2,398.97	8	2,759.96	8	3,120.72	8	3,467.85
1/4	256.11	1/4	612.23	1/4	964.03	1/4	1,324.80	1/4	1,685.63	1/4	2,045.62	1/4	2,406.49	1/4	2,767.48	1/4	3,128.23	1/4	3,474.23
1/2	263.63	1/2	619.46	1/2	971.54	1/2	1,332.32	1/2	1,693.15	1/2	2,053.12	1/2	2,414.02	1/2	2,775.00	1/2	3,135.75	1/2	3,480.60
3/4	271.15	3/4	626.68	3/4	979.05	3/4	1,339.84	3/4	1,700.67	3/4	2,060.61	3/4	2,421.54	3/4	2,782.52	3/4	3,143.26	3/4	3,486.98
9	278.67	9	633.91	9	986.56	9	1,347.35	9	1,708.18	9	2,068.11	9	2,429.06	9	2,790.05	9	3,150.78	9	3,493.36
1/4	286.19	1/4	641.13	1/4	994.07	1/4	1,354.87	1/4	1,715.69	1/4	2,075.62	1/4	2,436.58	1/4	2,797.57	1/4	3,158.29	1/4	3,499.74
1/2	293.71	1/2	648.36	1/2	1,001.58	1/2	1,362.39	1/2	1,723.20	1/2	2,083.13	1/2	2,444.10	1/2	2,805.09	1/2	3,165.80	1/2	3,506.11
3/4	301.24	3/4	655.59	3/4	1,009.08	3/4	1,369.91	3/4	1,730.71	3/4	2,090.64	3/4	2,451.62	3/4	2,812.61	3/4	3,173.32	3/4	3,512.49
10	308.76	10	662.81	10	1,016.59	10	1,377.42	10	1,738.22	10	2,098.15	10	2,459.14	10	2,820.13	10	3,180.83	10	3,518.87
1/4	316.28	1/4	670.04	1/4	1,024.11	1/4	1,384.94	1/4	1,745.72	1/4	2,105.67	1/4	2,466.66	1/4	2,827.65	1/4	3,188.34	1/4	3,525.24
1/2	323.80	1/2	677.28	1/2	1,031.63	1/2	1,392.46	1/2	1,753.21	1/2	2,113.19	1/2	2,474.18	1/2	2,835.17	1/2	3,195.85	1/2	3,531.62
3/4	331.32	3/4	684.51	3/4	1,039.14	3/4	1,399.98	3/4	1,760.71	3/4	2,120.71	3/4	2,481.70	3/4	2,842.69	3/4	3,203.37	3/4	3,538.00
11	338.84	11	691.74	11	1,046.66	11	1,407.49	11	1,768.21	11	2,128.23	11	2,489.22	11	2,850.21	11	3,210.88	11	3,544.37
1/4	346.37	1/4	698.97	1/4	1,054.18	1/4	1,415.01	1/4	1,775.71	1/4	2,135.75	1/4	2,496.74	1/4	2,857.73	1/4	3,218.39	1/4	3,550.75
1/2	353.89	1/2	706.20	1/2	1,061.70	1/2	1,422.53	1/2	1,783.20	1/2	2,143.27	1/2	2,504.26	1/2	2,865.25	1/2	3,225.90	1/2	3,557.13
3/4	361.41	3/4	713.43	3/4	1,069.21	3/4	1,430.04	3/4	1,790.70	3/4	2,150.79	3/4	2,511.78	3/4	2,872.77	3/4	3,233.42	3/4	3,563.51

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" 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 382"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,569.88	0	3,875.98	0	4,182.07	0	4,487.44	0		0		0		0		0		0	
1/4	3,576.26	1/4	3,882.36	1/4	4,188.45	1/4	4,493.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,582.64	1/2	3,888.73	1/2	4,194.83	1/2	4,500.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,589.01	3/4	3,895.11	3/4	4,201.21	3/4	4,506.47	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,595.39	1	3,901.49	1	4,207.58	1	4,512.81	1		1		1		1		1		1	
1/4	3,601.77	1/4	3,907.86	1/4	4,213.96	1/4	4,519.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,608.14	1/2	3,914.24	1/2	4,220.34	1/2	4,525.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,614.52	3/4	3,920.62	3/4	4,226.71	3/4	4,531.83	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,620.90	2	3,926.99	2	4,233.09	2	4,538.17	2		2		2		2		2		2	
1/4	3,627.28	1/4	3,933.37	1/4	4,239.47	1/4	4,544.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,633.65	1/2	3,939.75	1/2	4,245.84	1/2	4,550.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.03	3/4	3,946.13	3/4	4,252.22	3/4	4,557.19	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,646.41	3	3,952.50	3	4,258.60	3	4,563.53	3		3		3		3		3		3	
1/4	3,652.78	1/4	3,958.88	1/4	4,264.98	1/4	4,569.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.16	1/2	3,965.26	1/2	4,271.35	1/2	4,576.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,665.54	3/4	3,971.63	3/4	4,277.73	3/4	4,582.55	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,671.91	4	3,978.01	4	4,284.11	4	4,588.90	4		4		4		4		4		4	
1/4	3,678.29	1/4	3,984.39	1/4	4,290.48	1/4	4,595.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.67	1/2	3,990.76	1/2	4,296.86	1/2	4,601.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.05	3/4	3,997.14	3/4	4,303.24	3/4	4,607.92	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,697.42	5	4,003.52	5	4,309.61	5	4,614.26	5		5		5		5		5		5	
1/4	3,703.80	1/4	4,009.90	1/4	4,315.99	1/4	4,620.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.18	1/2	4,016.27	1/2	4,322.37	1/2	4,626.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,716.55	3/4	4,022.65	3/4	4,328.75	3/4	4,633.28	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,722.93	6	4,029.03	6	4,335.12	6	4,639.62	6		6		6		6		6		6	
1/4	3,729.31	1/4	4,035.40	1/4	4,341.50	1/4	4,645.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.68	1/2	4,041.78	1/2	4,347.88	1/2	4,652.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.06	3/4	4,048.16	3/4	4,354.25	3/4	4,658.64	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,748.44	7	4,054.53	7	4,360.63	7	4,664.98	7		7		7		7		7		7	
1/4	3,754.82	1/4	4,060.91	1/4	4,366.97	1/4	4,672.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,761.19	1/2	4,067.29	1/2	4,373.31	1/2	4,679.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,767.57	3/4	4,073.67	3/4	4,379.65	3/4	4,687.18	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,773.95	8	4,080.04	8	4,385.99	8	4,694.57	8		8		8		8		8		8	
1/4	3,780.32	1/4	4,086.42	1/4	4,392.33	1/4	4,701.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,786.70	1/2	4,092.80	1/2	4,398.67	1/2	4,708.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,793.08	3/4	4,099.17	3/4	4,405.02	3/4	4,715.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,799.45	9	4,105.55	9	4,411.36	9	4,722.63	9		9		9		9		9		9	
1/4	3,805.83	1/4	4,111.93	1/4	4,417.70	1/4	4,728.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,812.21	1/2	4,118.30	1/2	4,424.04	1/2	4,734.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,818.59	3/4	4,124.68	3/4	4,430.38	3/4	4,739.69	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,824.96	10	4,131.06	10	4,436.72	10	=====	10		10		10		10		10		10	
1/4	3,831.34	1/4	4,137.44	1/4	4,443.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,837.72	1/2	4,143.81	1/2	4,449.40	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,844.09	3/4	4,150.19	3/4	4,455.74	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,850.47	11	4,156.57	11	4,462.08	11		11		11		11		11		11		11	
1/4	3,856.85	1/4	4,162.94	1/4	4,468.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.22	1/2	4,169.32	1/2	4,474.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,869.60	3/4	4,175.70	3/4	4,481.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

PRECISION MEASUREMENT  
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# BARGE "EMS 382"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.57	0	368.33	0	721.20	0	1,077.87	0	1,438.13	0	1,797.65	0	2,155.14	0	2,515.26	0	2,875.57	0	3,235.56
1/4	22.94	1/4	375.83	1/4	728.47	1/4	1,085.38	1/4	1,445.64	1/4	1,805.08	1/4	2,162.65	1/4	2,522.76	1/4	2,883.07	1/4	3,243.07
1/2	28.31	1/2	383.34	1/2	735.75	1/2	1,092.88	1/2	1,453.14	1/2	1,812.51	1/2	2,170.16	1/2	2,530.26	1/2	2,890.57	1/2	3,250.57
3/4	33.68	3/4	390.85	3/4	743.02	3/4	1,100.39	3/4	1,460.65	3/4	1,819.94	3/4	2,177.67	3/4	2,537.76	3/4	2,898.07	3/4	3,258.08
1	39.05	1	398.36	1	750.29	1	1,107.89	1	1,468.15	1	1,827.38	1	2,185.18	1	2,545.25	1	2,905.57	1	3,265.58
1/4	46.29	1/4	405.87	1/4	757.58	1/4	1,115.40	1/4	1,475.66	1/4	1,834.81	1/4	2,192.68	1/4	2,552.76	1/4	2,913.07	1/4	3,273.09
1/2	53.53	1/2	413.37	1/2	764.86	1/2	1,122.90	1/2	1,483.16	1/2	1,842.24	1/2	2,200.19	1/2	2,560.27	1/2	2,920.57	1/2	3,280.60
3/4	60.77	3/4	420.88	3/4	772.15	3/4	1,130.41	3/4	1,490.67	3/4	1,849.67	3/4	2,207.70	3/4	2,567.78	3/4	2,928.07	3/4	3,288.10
2	68.01	2	428.39	2	779.43	2	1,137.91	2	1,498.17	2	1,857.10	2	2,215.21	2	2,575.28	2	2,935.57	2	3,295.61
1/4	75.51	1/4	435.90	1/4	786.71	1/4	1,145.42	1/4	1,505.68	1/4	1,864.53	1/4	2,222.72	1/4	2,582.79	1/4	2,943.07	1/4	3,303.12
1/2	83.02	1/2	443.41	1/2	794.00	1/2	1,152.92	1/2	1,513.18	1/2	1,871.97	1/2	2,230.23	1/2	2,590.30	1/2	2,950.57	1/2	3,310.62
3/4	90.53	3/4	450.91	3/4	801.28	3/4	1,160.43	3/4	1,520.69	3/4	1,879.40	3/4	2,237.74	3/4	2,597.80	3/4	2,958.07	3/4	3,318.13
3	98.04	3	458.42	3	808.56	3	1,167.94	3	1,528.19	3	1,886.83	3	2,245.25	3	2,605.31	3	2,965.57	3	3,325.63
1/4	105.55	1/4	465.93	1/4	815.85	1/4	1,175.44	1/4	1,535.70	1/4	1,894.26	1/4	2,252.75	1/4	2,612.82	1/4	2,973.07	1/4	3,333.14
1/2	113.05	1/2	473.44	1/2	823.13	1/2	1,182.95	1/2	1,543.21	1/2	1,901.69	1/2	2,260.26	1/2	2,620.33	1/2	2,980.57	1/2	3,340.65
3/4	120.56	3/4	480.95	3/4	830.41	3/4	1,190.45	3/4	1,550.71	3/4	1,909.12	3/4	2,267.77	3/4	2,627.83	3/4	2,988.07	3/4	3,348.15
4	128.07	4	488.45	4	837.70	4	1,197.96	4	1,558.22	4	1,916.56	4	2,275.28	4	2,635.34	4	2,995.57	4	3,355.66
1/4	135.58	1/4	495.74	1/4	845.20	1/4	1,205.46	1/4	1,565.72	1/4	1,923.99	1/4	2,282.79	1/4	2,642.85	1/4	3,003.07	1/4	3,363.17
1/2	143.09	1/2	503.02	1/2	852.71	1/2	1,212.97	1/2	1,573.23	1/2	1,931.42	1/2	2,290.30	1/2	2,650.36	1/2	3,010.57	1/2	3,370.67
3/4	150.59	3/4	510.30	3/4	860.21	3/4	1,220.47	3/4	1,580.73	3/4	1,938.85	3/4	2,297.81	3/4	2,657.86	3/4	3,018.07	3/4	3,378.18
5	158.10	5	517.59	5	867.72	5	1,227.98	5	1,588.24	5	1,946.28	5	2,305.32	5	2,665.37	5	3,025.57	5	3,385.69
1/4	165.61	1/4	524.86	1/4	875.22	1/4	1,235.48	1/4	1,595.74	1/4	1,953.71	1/4	2,312.81	1/4	2,672.88	1/4	3,033.07	1/4	3,392.06
1/2	173.12	1/2	532.13	1/2	882.73	1/2	1,242.99	1/2	1,603.25	1/2	1,961.15	1/2	2,320.31	1/2	2,680.38	1/2	3,040.57	1/2	3,398.44
3/4	180.63	3/4	539.41	3/4	890.24	3/4	1,250.49	3/4	1,610.75	3/4	1,968.58	3/4	2,327.81	3/4	2,687.89	3/4	3,048.07	3/4	3,404.81
6	188.13	6	546.68	6	897.74	6	1,258.00	6	1,618.26	6	1,976.01	6	2,335.31	6	2,695.40	6	3,055.57	6	3,411.19
1/4	195.64	1/4	553.95	1/4	905.25	1/4	1,265.51	1/4	1,625.76	1/4	1,983.44	1/4	2,342.81	1/4	2,702.91	1/4	3,063.07	1/4	3,417.56
1/2	203.15	1/2	561.23	1/2	912.75	1/2	1,273.01	1/2	1,633.27	1/2	1,990.87	1/2	2,350.30	1/2	2,710.41	1/2	3,070.57	1/2	3,423.94
3/4	210.66	3/4	568.50	3/4	920.26	3/4	1,280.52	3/4	1,640.78	3/4	1,998.30	3/4	2,357.80	3/4	2,717.92	3/4	3,078.07	3/4	3,430.31
7	218.17	7	575.77	7	927.76	7	1,288.02	7	1,648.28	7	2,005.74	7	2,365.30	7	2,725.43	7	3,085.57	7	3,436.69
1/4	225.67	1/4	583.05	1/4	935.27	1/4	1,295.53	1/4	1,655.79	1/4	2,013.17	1/4	2,372.80	1/4	2,732.93	1/4	3,093.07	1/4	3,443.06
1/2	233.18	1/2	590.32	1/2	942.77	1/2	1,303.03	1/2	1,663.29	1/2	2,020.60	1/2	2,380.30	1/2	2,740.44	1/2	3,100.57	1/2	3,449.44
3/4	240.69	3/4	597.59	3/4	950.28	3/4	1,310.54	3/4	1,670.80	3/4	2,028.03	3/4	2,387.79	3/4	2,747.95	3/4	3,108.07	3/4	3,455.81
8	248.20	8	604.87	8	957.78	8	1,318.04	8	1,678.30	8	2,035.46	8	2,395.29	8	2,755.46	8	3,115.57	8	3,462.19
1/4	255.71	1/4	612.13	1/4	965.29	1/4	1,325.55	1/4	1,685.81	1/4	2,042.89	1/4	2,402.79	1/4	2,762.96	1/4	3,123.07	1/4	3,468.56
1/2	263.21	1/2	619.40	1/2	972.79	1/2	1,333.05	1/2	1,693.31	1/2	2,050.33	1/2	2,410.29	1/2	2,770.47	1/2	3,130.57	1/2	3,474.94
3/4	270.72	3/4	626.67	3/4	980.30	3/4	1,340.56	3/4	1,700.82	3/4	2,057.76	3/4	2,417.79	3/4	2,777.98	3/4	3,138.07	3/4	3,481.31
9	278.23	9	633.94	9	987.81	9	1,348.06	9	1,708.32	9	2,065.19	9	2,425.28	9	2,785.48	9	3,145.57	9	3,487.69
1/4	285.74	1/4	641.21	1/4	995.31	1/4	1,355.57	1/4	1,715.79	1/4	2,072.66	1/4	2,432.78	1/4	2,792.99	1/4	3,153.07	1/4	3,494.07
1/2	293.25	1/2	648.48	1/2	1,002.82	1/2	1,363.08	1/2	1,723.26	1/2	2,080.13	1/2	2,440.28	1/2	2,800.50	1/2	3,160.57	1/2	3,500.44
3/4	300.75	3/4	655.75	3/4	1,010.32	3/4	1,370.58	3/4	1,730.73	3/4	2,087.60	3/4	2,447.78	3/4	2,808.01	3/4	3,168.07	3/4	3,506.82
10	308.26	10	663.02	10	1,017.83	10	1,378.09	10	1,738.19	10	2,095.07	10	2,455.28	10	2,815.51	10	3,175.57	10	3,513.19
1/4	315.77	1/4	670.29	1/4	1,025.33	1/4	1,385.59	1/4	1,745.63	1/4	2,102.58	1/4	2,462.78	1/4	2,823.02	1/4	3,183.07	1/4	3,519.57
1/2	323.28	1/2	677.56	1/2	1,032.84	1/2	1,393.10	1/2	1,753.06	1/2	2,110.09	1/2	2,470.27	1/2	2,830.53	1/2	3,190.57	1/2	3,525.94
3/4	330.79	3/4	684.84	3/4	1,040.34	3/4	1,400.60	3/4	1,760.49	3/4	2,117.60	3/4	2,477.77	3/4	2,838.04	3/4	3,198.06	3/4	3,532.32
11	338.29	11	692.11	11	1,047.85	11	1,408.11	11	1,767.92	11	2,125.11	11	2,485.27	11	2,845.54	11	3,205.56	11	3,538.69
1/4	345.80	1/4	699.38	1/4	1,055.35	1/4	1,415.61	1/4	1,775.35	1/4	2,132.62	1/4	2,492.77	1/4	2,853.05	1/4	3,213.06	1/4	3,545.07
1/2	353.31	1/2	706.66	1/2	1,062.86	1/2	1,423.12	1/2	1,782.79	1/2	2,140.12	1/2	2,500.27	1/2	2,860.56	1/2	3,220.56	1/2	3,551.44
3/4	360.82	3/4	713.93	3/4	1,070.37	3/4	1,430.62	3/4	1,790.22	3/4	2,147.63	3/4	2,507.76	3/4	2,868.06	3/4	3,228.06	3/4	3,557.82

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "EMS 382"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,564.19	0	3,870.21	0	4,176.22	0	4,481.51	0		0		0		0		0		0	
1/4	3,570.57	1/4	3,876.58	1/4	4,182.60	1/4	4,487.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,576.94	1/2	3,882.96	1/2	4,188.97	1/2	4,494.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,583.32	3/4	3,889.33	3/4	4,195.35	3/4	4,500.53	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,589.69	1	3,895.71	1	4,201.72	1	4,506.87	1		1		1		1		1		1	
1/4	3,596.07	1/4	3,902.08	1/4	4,208.10	1/4	4,513.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,602.45	1/2	3,908.46	1/2	4,214.47	1/2	4,519.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,608.82	3/4	3,914.84	3/4	4,220.85	3/4	4,525.89	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,615.20	2	3,921.21	2	4,227.22	2	4,532.23	2		2		2		2		2		2	
1/4	3,621.57	1/4	3,927.59	1/4	4,233.60	1/4	4,538.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,627.95	1/2	3,933.96	1/2	4,239.98	1/2	4,544.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,634.32	3/4	3,940.34	3/4	4,246.35	3/4	4,551.24	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,640.70	3	3,946.71	3	4,252.73	3	4,557.58	3		3		3		3		3		3	
1/4	3,647.07	1/4	3,953.09	1/4	4,259.10	1/4	4,563.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,653.45	1/2	3,959.46	1/2	4,265.48	1/2	4,570.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,659.82	3/4	3,965.84	3/4	4,271.85	3/4	4,576.60	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,666.20	4	3,972.21	4	4,278.23	4	4,582.94	4		4		4		4		4		4	
1/4	3,672.57	1/4	3,978.59	1/4	4,284.60	1/4	4,589.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.95	1/2	3,984.96	1/2	4,290.98	1/2	4,595.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,685.32	3/4	3,991.34	3/4	4,297.35	3/4	4,601.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,691.70	5	3,997.71	5	4,303.73	5	4,608.29	5		5		5		5		5		5	
1/4	3,698.07	1/4	4,004.09	1/4	4,310.10	1/4	4,614.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.45	1/2	4,010.46	1/2	4,316.48	1/2	4,620.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,710.83	3/4	4,016.84	3/4	4,322.85	3/4	4,627.31	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,717.20	6	4,023.22	6	4,329.23	6	4,633.65	6		6		6		6		6		6	
1/4	3,723.58	1/4	4,029.59	1/4	4,335.60	1/4	4,639.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,729.95	1/2	4,035.97	1/2	4,341.98	1/2	4,646.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,736.33	3/4	4,042.34	3/4	4,348.36	3/4	4,652.67	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,742.70	7	4,048.72	7	4,354.73	7	4,659.01	7		7		7		7		7		7	
1/4	3,749.08	1/4	4,055.09	1/4	4,361.07	1/4	4,666.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,755.45	1/2	4,061.47	1/2	4,367.41	1/2	4,673.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,761.83	3/4	4,067.84	3/4	4,373.75	3/4	4,681.19	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,768.20	8	4,074.22	8	4,380.09	8	4,688.59	8		8		8		8		8		8	
1/4	3,774.58	1/4	4,080.59	1/4	4,386.43	1/4	4,695.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.95	1/2	4,086.97	1/2	4,392.77	1/2	4,702.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,787.33	3/4	4,093.34	3/4	4,399.10	3/4	4,709.62	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,793.70	9	4,099.72	9	4,405.44	9	4,716.63	9		9		9		9		9		9	
1/4	3,800.08	1/4	4,106.09	1/4	4,411.78	1/4	4,722.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,806.46	1/2	4,112.47	1/2	4,418.12	1/2	4,728.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,812.83	3/4	4,118.84	3/4	4,424.46	3/4	4,733.69	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,819.21	10	4,125.22	10	4,430.80	10	=====	10		10		10		10		10		10	
1/4	3,825.58	1/4	4,131.60	1/4	4,437.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,831.96	1/2	4,137.97	1/2	4,443.48	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,838.33	3/4	4,144.35	3/4	4,449.82	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,844.71	11	4,150.72	11	4,456.16	11		11		11		11		11		11		11	
1/4	3,851.08	1/4	4,157.10	1/4	4,462.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,857.46	1/2	4,163.47	1/2	4,468.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,863.83	3/4	4,169.85	3/4	4,475.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
REPRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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# BARGE "EMS 382"

## 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	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 PORT	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-1/4	01-1/4
2 STBD	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-1/4	01-1/4
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	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 - 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

February 15, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 382"

## 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
							4,250.10		3,920.17		3,588.81		3,257.44		2,926.07		2,594.68		2,263.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,243.24	1/4	3,913.27	1/4	3,581.90	1/4	3,250.53	1/4	2,919.17	1/4	2,587.77	1/4	2,256.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,236.38	1/2	3,906.37	1/2	3,575.00	1/2	3,243.63	1/2	2,912.26	1/2	2,580.87	1/2	2,249.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,229.51	3/4	3,899.46	3/4	3,568.10	3/4	3,236.73	3/4	2,905.36	3/4	2,573.96	3/4	2,242.55
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,222.65</b>	<b>1</b>	<b>3,892.56</b>	<b>1</b>	<b>3,561.19</b>	<b>1</b>	<b>3,229.82</b>	<b>1</b>	<b>2,898.46</b>	<b>1</b>	<b>2,567.06</b>	<b>1</b>	<b>2,235.64</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,215.78	1/4	3,885.66	1/4	3,554.29	1/4	3,222.92	1/4	2,891.55	1/4	2,560.16	1/4	2,228.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,208.92	1/2	3,878.75	1/2	3,547.39	1/2	3,216.02	1/2	2,884.65	1/2	2,553.25	1/2	2,221.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,202.06	3/4	3,871.85	3/4	3,540.48	3/4	3,209.11	3/4	2,877.75	3/4	2,546.35	3/4	2,214.93
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,195.19</b>	<b>2</b>	<b>3,864.95</b>	<b>2</b>	<b>3,533.58</b>	<b>2</b>	<b>3,202.21</b>	<b>2</b>	<b>2,870.84</b>	<b>2</b>	<b>2,539.44</b>	<b>2</b>	<b>2,208.03</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,188.33	1/4	3,858.04	1/4	3,526.67	1/4	3,195.31	1/4	2,863.94	1/4	2,532.54	1/4	2,201.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,181.47	1/2	3,851.14	1/2	3,519.77	1/2	3,188.40	1/2	2,857.04	1/2	2,525.63	1/2	2,194.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,174.60	3/4	3,844.24	3/4	3,512.87	3/4	3,181.50	3/4	2,850.13	3/4	2,518.73	3/4	2,187.31
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,167.74</b>	<b>3</b>	<b>3,837.33</b>	<b>3</b>	<b>3,505.96</b>	<b>3</b>	<b>3,174.60</b>	<b>3</b>	<b>2,843.23</b>	<b>3</b>	<b>2,511.82</b>	<b>3</b>	<b>2,180.41</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,160.88	1/4	3,830.43	1/4	3,499.06	1/4	3,167.69	1/4	2,836.32	1/4	2,504.92	1/4	2,173.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,154.01	1/2	3,823.53	1/2	3,492.16	1/2	3,160.79	1/2	2,829.42	1/2	2,498.02	1/2	2,166.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,147.15	3/4	3,816.62	3/4	3,485.25	3/4	3,153.89	3/4	2,822.52	3/4	2,491.11	3/4	2,159.69
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,140.29</b>	<b>4</b>	<b>3,809.72</b>	<b>4</b>	<b>3,478.35</b>	<b>4</b>	<b>3,146.98</b>	<b>4</b>	<b>2,815.61</b>	<b>4</b>	<b>2,484.21</b>	<b>4</b>	<b>2,152.79</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,133.42	1/4	3,802.81	1/4	3,471.45	1/4	3,140.08	1/4	2,808.71	1/4	2,477.30	1/4	2,145.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,126.56	1/2	3,795.91	1/2	3,464.54	1/2	3,133.18	1/2	2,801.81	1/2	2,470.40	1/2	2,138.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,119.70	3/4	3,789.01	3/4	3,457.64	3/4	3,126.27	3/4	2,794.90	3/4	2,463.49	3/4	2,132.08
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,112.83</b>	<b>5</b>	<b>3,782.10</b>	<b>5</b>	<b>3,450.74</b>	<b>5</b>	<b>3,119.37</b>	<b>5</b>	<b>2,788.00</b>	<b>5</b>	<b>2,456.59</b>	<b>5</b>	<b>2,125.17</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,105.97	1/4	3,775.20	1/4	3,443.83	1/4	3,112.46	1/4	2,781.10	1/4	2,449.68	1/4	2,118.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,099.11	1/2	3,768.30	1/2	3,436.93	1/2	3,105.56	1/2	2,774.19	1/2	2,442.78	1/2	2,111.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,092.24	3/4	3,761.39	3/4	3,430.03	3/4	3,098.66	3/4	2,767.29	3/4	2,435.87	3/4	2,104.46
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,085.38</b>	<b>6</b>	<b>3,754.49</b>	<b>6</b>	<b>3,423.12</b>	<b>6</b>	<b>3,091.75</b>	<b>6</b>	<b>2,760.39</b>	<b>6</b>	<b>2,428.97</b>	<b>6</b>	<b>2,097.55</b>
1/4	1/4	1/4	4,401.04	1/4	4,078.51	1/4	3,747.59	1/4	3,416.22	1/4	3,084.85	1/4	2,753.48	1/4	2,422.07	1/4	2,090.65		
1/2	1/2	1/2	4,395.82	1/2	4,071.65	1/2	3,740.68	1/2	3,409.32	1/2	3,077.95	1/2	2,746.58	1/2	2,415.16	1/2	2,083.75		
3/4	3/4	3/4	4,390.60	3/4	4,064.79	3/4	3,733.78	3/4	3,402.41	3/4	3,071.04	3/4	2,739.67	3/4	2,408.26	3/4	2,076.84		
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,385.38</b>	<b>7</b>	<b>4,057.92</b>	<b>7</b>	<b>3,726.88</b>	<b>7</b>	<b>3,395.51</b>	<b>7</b>	<b>3,064.14</b>	<b>7</b>	<b>2,732.77</b>	<b>7</b>	<b>2,401.35</b>	<b>7</b>	<b>2,069.94</b>		
1/4	1/4	1/4	4,378.94	1/4	4,051.06	1/4	3,719.97	1/4	3,388.60	1/4	3,057.24	1/4	2,725.86	1/4	2,394.45	1/4	2,063.03		
1/2	1/2	1/2	4,372.50	1/2	4,044.20	1/2	3,713.07	1/2	3,381.70	1/2	3,050.33	1/2	2,718.96	1/2	2,387.54	1/2	2,056.13		
3/4	3/4	3/4	4,366.06	3/4	4,037.33	3/4	3,706.17	3/4	3,374.80	3/4	3,043.43	3/4	2,712.05	3/4	2,380.64	3/4	2,049.22		
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,359.62</b>	<b>8</b>	<b>4,030.47</b>	<b>8</b>	<b>3,699.26</b>	<b>8</b>	<b>3,367.89</b>	<b>8</b>	<b>3,036.53</b>	<b>8</b>	<b>2,705.15</b>	<b>8</b>	<b>2,373.73</b>	<b>8</b>	<b>2,042.32</b>		
1/4	1/4	1/4	4,352.83	1/4	4,023.61	1/4	3,692.36	1/4	3,360.99	1/4	3,029.62	1/4	2,698.25	1/4	2,366.83	1/4	2,035.41		
1/2	1/2	1/2	4,346.04	1/2	4,016.74	1/2	3,685.46	1/2	3,354.09	1/2	3,022.72	1/2	2,691.34	1/2	2,359.93	1/2	2,028.51		
3/4	3/4	3/4	4,339.25	3/4	4,009.88	3/4	3,678.55	3/4	3,347.18	3/4	3,015.82	3/4	2,684.44	3/4	2,353.02	3/4	2,021.60		
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,332.46</b>	<b>9</b>	<b>4,003.02</b>	<b>9</b>	<b>3,671.65</b>	<b>9</b>	<b>3,340.28</b>	<b>9</b>	<b>3,008.91</b>	<b>9</b>	<b>2,677.53</b>	<b>9</b>	<b>2,346.12</b>	<b>9</b>	<b>2,014.70</b>		
1/4	1/4	1/4	4,325.60	1/4	3,996.11	1/4	3,664.74	1/4	3,333.38	1/4	3,002.01	1/4	2,670.63	1/4	2,339.21	1/4	2,007.80		
1/2	1/2	1/2	4,318.74	1/2	3,989.21	1/2	3,657.84	1/2	3,326.47	1/2	2,995.11	1/2	2,663.72	1/2	2,332.31	1/2	2,000.89		
3/4	3/4	3/4	4,311.87	3/4	3,982.31	3/4	3,650.94	3/4	3,319.57	3/4	2,988.20	3/4	2,656.82	3/4	2,325.40	3/4	1,993.99		
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,305.01</b>	<b>10</b>	<b>3,975.40</b>	<b>10</b>	<b>3,644.03</b>	<b>10</b>	<b>3,312.67</b>	<b>10</b>	<b>2,981.30</b>	<b>10</b>	<b>2,649.91</b>	<b>10</b>	<b>2,318.50</b>	<b>10</b>	<b>1,987.08</b>		
1/4	1/4	1/4	4,298.15	1/4	3,968.50	1/4	3,637.13	1/4	3,305.76	1/4	2,974.39	1/4	2,643.01	1/4	2,311.59	1/4	1,980.18		
1/2	1/2	1/2	4,291.28	1/2	3,961.60	1/2	3,630.23	1/2	3,298.86	1/2	2,967.49	1/2	2,636.11	1/2	2,304.69	1/2	1,973.27		
3/4	3/4	3/4	4,284.42	3/4	3,954.69	3/4	3,623.32	3/4	3,291.96	3/4	2,960.59	3/4	2,629.20	3/4	2,297.78	3/4	1,966.37		
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,277.56</b>	<b>11</b>	<b>3,947.79</b>	<b>11</b>	<b>3,616.42</b>	<b>11</b>	<b>3,285.05</b>	<b>11</b>	<b>2,953.68</b>	<b>11</b>	<b>2,622.30</b>	<b>11</b>	<b>2,290.88</b>	<b>11</b>	<b>1,959.46</b>		
1/4	1/4	1/4	4,270.69	1/4	3,940.88	1/4	3,609.52	1/4	3,278.15	1/4	2,946.78	1/4	2,615.39	1/4	2,283.98	1/4	1,952.56		
1/2	1/2	1/2	4,263.83	1/2	3,933.98	1/2	3,602.61	1/2	3,271.25	1/2	2,939.88	1/2	2,608.49	1/2	2,277.07	1/2	1,945.66		
3/4	3/4	3/4	4,256.97	3/4	3,927.08	3/4	3,595.71	3/4	3,264.34	3/4	2,932.97	3/4	2,601.58	3/4	2,270.17	3/4	1,938.75		

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'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "EMS 382"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	1,931.85		1,600.43		1,269.01		942.12		635.61		347.28		78.83						
1/4	1,924.94	1/4	1,593.53	1/4	1,262.11	1/4	935.53	1/4	629.42	1/4	341.50	1/4	73.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,918.04	1/2	1,586.62	1/2	1,255.21	1/2	928.94	1/2	623.22	1/2	335.72	1/2	68.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,911.13	3/4	1,579.72	3/4	1,248.30	3/4	922.36	3/4	617.02	3/4	329.94	3/4	62.73	3/4	3/4	3/4	3/4	3/4	3/4
<b>1</b>	<b>1,904.23</b>	<b>1</b>	<b>1,572.81</b>	<b>1</b>	<b>1,241.40</b>	<b>1</b>	<b>915.77</b>	<b>1</b>	<b>610.83</b>	<b>1</b>	<b>324.15</b>	<b>1</b>	<b>57.36</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
1/4	1,897.32	1/4	1,565.91	1/4	1,234.49	1/4	909.24	1/4	604.66	1/4	318.40	1/4	52.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,890.42	1/2	1,559.00	1/2	1,227.59	1/2	902.70	1/2	598.50	1/2	312.66	1/2	46.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,883.51	3/4	1,552.10	3/4	1,220.68	3/4	896.17	3/4	592.34	3/4	306.91	3/4	41.36	3/4	3/4	3/4	3/4	3/4	3/4
<b>2</b>	<b>1,876.61</b>	<b>2</b>	<b>1,545.19</b>	<b>2</b>	<b>1,213.78</b>	<b>2</b>	<b>889.63</b>	<b>2</b>	<b>586.18</b>	<b>2</b>	<b>301.16</b>	<b>2</b>	<b>36.03</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
1/4	1,869.71	1/4	1,538.29	1/4	1,206.87	1/4	883.13	1/4	580.05	1/4	295.45	1/4	30.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,862.80	1/2	1,531.39	1/2	1,199.97	1/2	876.63	1/2	573.92	1/2	289.73	1/2	25.92	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,855.90	3/4	1,524.48	3/4	1,193.06	3/4	870.13	3/4	567.79	3/4	284.02	3/4	20.87	3/4	3/4	3/4	3/4	3/4	3/4
<b>3</b>	<b>1,848.99</b>	<b>3</b>	<b>1,517.58</b>	<b>3</b>	<b>1,186.16</b>	<b>3</b>	<b>863.63</b>	<b>3</b>	<b>561.67</b>	<b>3</b>	<b>278.31</b>	<b>3</b>	<b>15.81</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1/4	1,842.09	1/4	1,510.67	1/4	1,179.26	1/4	857.17	1/4	555.57	1/4	272.63	1/4	12.52	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,835.18	1/2	1,503.77	1/2	1,172.35	1/2	850.70	1/2	549.48	1/2	266.95	1/2	9.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,828.28	3/4	1,496.86	3/4	1,165.45	3/4	844.24	3/4	543.39	3/4	261.27	3/4	5.94	3/4	3/4	3/4	3/4	3/4	3/4
<b>4</b>	<b>1,821.37</b>	<b>4</b>	<b>1,489.96</b>	<b>4</b>	<b>1,158.54</b>	<b>4</b>	<b>837.77</b>	<b>4</b>	<b>537.29</b>	<b>4</b>	<b>255.59</b>	<b>4</b>	<b>2.65</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
1/4	1,814.47	1/4	1,483.05	1/4	1,151.66	1/4	831.34	1/4	531.23	1/4	249.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.57	1/2	1,476.15	1/2	1,144.77	1/2	824.92	1/2	525.18	1/2	244.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,800.66	3/4	1,469.24	3/4	1,137.88	3/4	818.49	3/4	519.12	3/4	238.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>5</b>	<b>1,793.76</b>	<b>5</b>	<b>1,462.34</b>	<b>5</b>	<b>1,130.99</b>	<b>5</b>	<b>812.07</b>	<b>5</b>	<b>513.06</b>	<b>5</b>	<b>233.01</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
1/4	1,786.85	1/4	1,455.44	1/4	1,124.14	1/4	805.67	1/4	507.03	1/4	227.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,779.95	1/2	1,448.53	1/2	1,117.29	1/2	799.28	1/2	501.01	1/2	221.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,773.04	3/4	1,441.63	3/4	1,110.44	3/4	792.89	3/4	494.99	3/4	216.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>6</b>	<b>1,766.14</b>	<b>6</b>	<b>1,434.72</b>	<b>6</b>	<b>1,103.58</b>	<b>6</b>	<b>786.50</b>	<b>6</b>	<b>488.96</b>	<b>6</b>	<b>210.57</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
1/4	1,759.23	1/4	1,427.82	1/4	1,096.76	1/4	780.14	1/4	482.97	1/4	205.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,752.33	1/2	1,420.91	1/2	1,089.95	1/2	773.77	1/2	476.98	1/2	199.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,745.42	3/4	1,414.01	3/4	1,083.13	3/4	767.41	3/4	470.99	3/4	193.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>7</b>	<b>1,738.52</b>	<b>7</b>	<b>1,407.10</b>	<b>7</b>	<b>1,076.31</b>	<b>7</b>	<b>761.05</b>	<b>7</b>	<b>465.00</b>	<b>7</b>	<b>188.27</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
1/4	1,731.62	1/4	1,400.20	1/4	1,069.53	1/4	754.72	1/4	459.05	1/4	182.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,724.71	1/2	1,393.30	1/2	1,062.74	1/2	748.40	1/2	453.09	1/2	177.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,717.81	3/4	1,386.39	3/4	1,055.96	3/4	742.07	3/4	447.14	3/4	171.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>8</b>	<b>1,710.90</b>	<b>8</b>	<b>1,379.49</b>	<b>8</b>	<b>1,049.18</b>	<b>8</b>	<b>735.74</b>	<b>8</b>	<b>441.18</b>	<b>8</b>	<b>166.11</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
1/4	1,704.00	1/4	1,372.58	1/4	1,042.43	1/4	729.45	1/4	435.26	1/4	160.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,697.09	1/2	1,365.68	1/2	1,035.68	1/2	723.16	1/2	429.34	1/2	155.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,690.19	3/4	1,358.77	3/4	1,028.93	3/4	716.86	3/4	423.42	3/4	149.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>9</b>	<b>1,683.28</b>	<b>9</b>	<b>1,351.87</b>	<b>9</b>	<b>1,022.18</b>	<b>9</b>	<b>710.57</b>	<b>9</b>	<b>417.50</b>	<b>9</b>	<b>144.08</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
1/4	1,676.38	1/4	1,344.96	1/4	1,015.46	1/4	704.30	1/4	411.62	1/4	138.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,669.48	1/2	1,338.06	1/2	1,008.75	1/2	698.03	1/2	405.73	1/2	133.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,662.57	3/4	1,331.15	3/4	1,002.03	3/4	691.76	3/4	399.84	3/4	127.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>10</b>	<b>1,655.67</b>	<b>10</b>	<b>1,324.25</b>	<b>10</b>	<b>995.32</b>	<b>10</b>	<b>685.48</b>	<b>10</b>	<b>393.96</b>	<b>10</b>	<b>122.19</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1/4	1,648.76	1/4	1,317.35	1/4	988.64	1/4	679.25	1/4	388.11	1/4	116.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,641.86	1/2	1,310.44	1/2	981.96	1/2	673.01	1/2	382.25	1/2	111.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,634.95	3/4	1,303.54	3/4	975.28	3/4	666.77	3/4	376.40	3/4	105.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4
<b>11</b>	<b>1,628.05</b>	<b>11</b>	<b>1,296.63</b>	<b>11</b>	<b>968.60</b>	<b>11</b>	<b>660.54</b>	<b>11</b>	<b>370.55</b>	<b>11</b>	<b>100.45</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
1/4	1,621.14	1/4	1,289.73	1/4	961.98	1/4	654.31	1/4	364.73	1/4	95.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,614.24	1/2	1,282.82	1/2	955.36	1/2	648.07	1/2	358.92	1/2	89.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,607.33	3/4	1,275.92	3/4	948.74	3/4	641.84	3/4	353.10	3/4	84.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4

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# BARGE "EMS 382"

# 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,261.75	0	3,931.60	0	3,599.97	0	3,268.34	0	2,936.72	0	2,605.07	0	2,273.39
1/4		1/4		1/4		1/4	4,254.88	1/4	3,924.69	1/4	3,593.06	1/4	3,261.43	1/4	2,929.81	1/4	2,598.16	1/4	2,266.48
1/2		1/2		1/2		1/2	4,248.01	1/2	3,917.78	1/2	3,586.15	1/2	3,254.53	1/2	2,922.90	1/2	2,591.25	1/2	2,259.57
3/4		3/4		3/4		3/4	4,241.14	3/4	3,910.87	3/4	3,579.24	3/4	3,247.62	3/4	2,915.99	3/4	2,584.34	3/4	2,252.66
1		1		1		1	4,234.28	1	3,903.96	1	3,572.33	1	3,240.71	1	2,909.08	1	2,577.43	1	2,245.75
1/4		1/4		1/4		1/4	4,227.41	1/4	3,897.05	1/4	3,565.43	1/4	3,233.80	1/4	2,902.17	1/4	2,570.52	1/4	2,238.84
1/2		1/2		1/2		1/2	4,220.54	1/2	3,890.14	1/2	3,558.52	1/2	3,226.89	1/2	2,895.26	1/2	2,563.61	1/2	2,231.93
3/4		3/4		3/4		3/4	4,213.67	3/4	3,883.24	3/4	3,551.61	3/4	3,219.98	3/4	2,888.35	3/4	2,556.70	3/4	2,225.02
2		2		2		2	4,206.80	2	3,876.33	2	3,544.70	2	3,213.07	2	2,881.44	2	2,549.79	2	2,218.11
1/4		1/4		1/4		1/4	4,199.93	1/4	3,869.42	1/4	3,537.79	1/4	3,206.16	1/4	2,874.54	1/4	2,542.88	1/4	2,211.20
1/2		1/2		1/2		1/2	4,193.06	1/2	3,862.51	1/2	3,530.88	1/2	3,199.25	1/2	2,867.63	1/2	2,535.97	1/2	2,204.29
3/4		3/4		3/4		3/4	4,186.19	3/4	3,855.60	3/4	3,523.97	3/4	3,192.35	3/4	2,860.72	3/4	2,529.06	3/4	2,197.38
3		3		3		3	4,179.32	3	3,848.69	3	3,517.06	3	3,185.44	3	2,853.81	3	2,522.15	3	2,190.47
1/4		1/4		1/4		1/4	4,172.45	1/4	3,841.78	1/4	3,510.15	1/4	3,178.53	1/4	2,846.90	1/4	2,515.24	1/4	2,183.56
1/2		1/2		1/2		1/2	4,165.58	1/2	3,834.87	1/2	3,503.25	1/2	3,171.62	1/2	2,839.99	1/2	2,508.33	1/2	2,176.65
3/4		3/4		3/4		3/4	4,158.72	3/4	3,827.96	3/4	3,496.34	3/4	3,164.71	3/4	2,833.08	3/4	2,501.42	3/4	2,169.74
4		4		4		4	4,151.85	4	3,821.05	4	3,489.43	4	3,157.80	4	2,826.17	4	2,494.51	4	2,162.83
1/4		1/4		1/4		1/4	4,144.98	1/4	3,814.15	1/4	3,482.52	1/4	3,150.89	1/4	2,819.26	1/4	2,487.60	1/4	2,155.92
1/2		1/2		1/2		1/2	4,138.11	1/2	3,807.24	1/2	3,475.61	1/2	3,143.98	1/2	2,812.36	1/2	2,480.69	1/2	2,149.01
3/4		3/4		3/4		3/4	4,131.24	3/4	3,800.33	3/4	3,468.70	3/4	3,137.07	3/4	2,805.45	3/4	2,473.78	3/4	2,142.10
5		5		5		5	4,124.37	5	3,793.42	5	3,461.79	5	3,130.16	5	2,798.54	5	2,466.87	5	2,135.19
1/4		1/4		1/4		1/4	4,117.50	1/4	3,786.51	1/4	3,454.88	1/4	3,123.26	1/4	2,791.63	1/4	2,459.96	1/4	2,128.28
1/2		1/2		1/2		1/2	4,110.63	1/2	3,779.60	1/2	3,447.97	1/2	3,116.35	1/2	2,784.72	1/2	2,453.05	1/2	2,121.37
3/4		3/4		3/4		3/4	4,103.76	3/4	3,772.69	3/4	3,441.07	3/4	3,109.44	3/4	2,777.81	3/4	2,446.14	3/4	2,114.46
6		6		6		6	4,096.89	6	3,765.78	6	3,434.16	6	3,102.53	6	2,770.90	6	2,439.23	6	2,107.55
1/4		1/4		1/4		1/4	4,090.02	1/4	3,758.87	1/4	3,427.25	1/4	3,095.62	1/4	2,763.99	1/4	2,432.32	1/4	2,100.64
1/2		1/2		1/2	4,405.94	1/2	4,083.16	1/2	3,751.97	1/2	3,420.34	1/2	3,088.71	1/2	2,757.08	1/2	2,425.41	1/2	2,093.73
3/4		3/4		3/4	4,400.72	3/4	4,076.29	3/4	3,745.06	3/4	3,413.43	3/4	3,081.80	3/4	2,750.17	3/4	2,418.50	3/4	2,086.82
7		7		7	4,395.49	7	4,069.42	7	3,738.15	7	3,406.52	7	3,074.89	7	2,743.26	7	2,411.59	7	2,079.91
1/4		1/4		1/4	4,390.27	1/4	4,062.55	1/4	3,731.24	1/4	3,399.61	1/4	3,067.98	1/4	2,736.35	1/4	2,404.68	1/4	2,073.00
1/2		1/2		1/2	4,383.82	1/2	4,055.68	1/2	3,724.33	1/2	3,392.70	1/2	3,061.08	1/2	2,729.44	1/2	2,397.77	1/2	2,066.09
3/4		3/4		3/4	4,377.38	3/4	4,048.81	3/4	3,717.42	3/4	3,385.79	3/4	3,054.17	3/4	2,722.53	3/4	2,390.86	3/4	2,059.18
8		8		8	4,370.94	8	4,041.94	8	3,710.51	8	3,378.89	8	3,047.26	8	2,715.62	8	2,383.95	8	2,052.27
1/4		1/4		1/4	4,364.49	1/4	4,035.07	1/4	3,703.60	1/4	3,371.98	1/4	3,040.35	1/4	2,708.71	1/4	2,377.04	1/4	2,045.36
1/2		1/2		1/2	4,357.70	1/2	4,028.20	1/2	3,696.69	1/2	3,365.07	1/2	3,033.44	1/2	2,701.80	1/2	2,370.13	1/2	2,038.45
3/4		3/4		3/4	4,350.90	3/4	4,021.33	3/4	3,689.79	3/4	3,358.16	3/4	3,026.53	3/4	2,694.89	3/4	2,363.22	3/4	2,031.54
9		9		9	4,344.11	9	4,014.46	9	3,682.88	9	3,351.25	9	3,019.62	9	2,687.98	9	2,356.31	9	2,024.63
1/4		1/4		1/4	4,337.31	1/4	4,007.60	1/4	3,675.97	1/4	3,344.34	1/4	3,012.71	1/4	2,681.07	1/4	2,349.40	1/4	2,017.72
1/2		1/2		1/2	4,330.44	1/2	4,000.69	1/2	3,669.06	1/2	3,337.43	1/2	3,005.80	1/2	2,674.16	1/2	2,342.49	1/2	2,010.81
3/4		3/4		3/4	4,323.57	3/4	3,993.78	3/4	3,662.15	3/4	3,330.52	3/4	2,998.90	3/4	2,667.25	3/4	2,335.58	3/4	2,003.90
10		10		10	4,316.70	10	3,986.87	10	3,655.24	10	3,323.61	10	2,991.99	10	2,660.34	10	2,328.67	10	1,996.99
1/4		1/4		1/4	4,309.84	1/4	3,979.96	1/4	3,648.33	1/4	3,316.71	1/4	2,985.08	1/4	2,653.43	1/4	2,321.76	1/4	1,990.08
1/2		1/2		1/2	4,302.97	1/2	3,973.05	1/2	3,641.42	1/2	3,309.80	1/2	2,978.17	1/2	2,646.52	1/2	2,314.85	1/2	1,983.17
3/4		3/4		3/4	4,296.10	3/4	3,966.14	3/4	3,634.51	3/4	3,302.89	3/4	2,971.26	3/4	2,639.62	3/4	2,307.94	3/4	1,976.26
11		11		11	4,289.23	11	3,959.23	11	3,627.61	11	3,295.98	11	2,964.35	11	2,632.71	11	2,301.03	11	1,969.35
1/4		1/4		1/4	4,282.36	1/4	3,952.32	1/4	3,620.70	1/4	3,289.07	1/4	2,957.44	1/4	2,625.80	1/4	2,294.12	1/4	1,962.44
1/2		1/2		1/2	4,275.49	1/2	3,945.42	1/2	3,613.79	1/2	3,282.16	1/2	2,950.53	1/2	2,618.89	1/2	2,287.21	1/2	1,955.53
3/4		3/4		3/4	4,268.62	3/4	3,938.51	3/4	3,606.88	3/4	3,275.25	3/4	2,943.62	3/4	2,611.98	3/4	2,280.30	3/4	1,948.63

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 382"

## 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	1,941.72	0	1,610.04	0	1,278.36	0	950.85	0	642.42	0	353.43	0	84.32	0		0		0	
1/4	1,934.81	1/4	1,603.13	1/4	1,271.45	1/4	944.20	1/4	636.19	1/4	347.61	1/4	78.92	1/4	1/4	1/4		1/4	
1/2	1,927.90	1/2	1,596.22	1/2	1,264.54	1/2	937.58	1/2	629.99	1/2	341.82	1/2	73.54	1/2	1/2	1/2		1/2	
3/4	1,920.99	3/4	1,589.31	3/4	1,257.64	3/4	930.97	3/4	623.78	3/4	336.03	3/4	68.17	3/4	3/4	3/4		3/4	
1	1,914.08	1	1,582.40	1	1,250.73	1	924.35	1	617.58	1	330.25	1	62.80	1	1	1		1	
1/4	1,907.17	1/4	1,575.49	1/4	1,243.82	1/4	917.73	1/4	611.38	1/4	324.46	1/4	57.42	1/4	1/4	1/4		1/4	
1/2	1,900.26	1/2	1,568.58	1/2	1,236.91	1/2	911.16	1/2	605.21	1/2	318.71	1/2	52.08	1/2	1/2	1/2		1/2	
3/4	1,893.35	3/4	1,561.67	3/4	1,230.00	3/4	904.60	3/4	599.04	3/4	312.95	3/4	46.74	3/4	3/4	3/4		3/4	
2	1,886.44	2	1,554.76	2	1,223.09	2	898.03	2	592.88	2	307.20	2	41.41	2	2	2		2	
1/4	1,879.53	1/4	1,547.85	1/4	1,216.18	1/4	891.46	1/4	586.71	1/4	301.45	1/4	36.07	1/4	1/4	1/4		1/4	
1/2	1,872.62	1/2	1,540.94	1/2	1,209.27	1/2	884.92	1/2	580.58	1/2	295.73	1/2	31.01	1/2	1/2	1/2		1/2	
3/4	1,865.71	3/4	1,534.03	3/4	1,202.36	3/4	878.39	3/4	574.44	3/4	290.01	3/4	25.95	3/4	3/4	3/4		3/4	
3	1,858.80	3	1,527.12	3	1,195.45	3	871.86	3	568.31	3	284.29	3	20.89	3	3	3		3	
1/4	1,851.89	1/4	1,520.21	1/4	1,188.54	1/4	865.32	1/4	562.18	1/4	278.57	1/4	15.84	1/4	1/4	1/4		1/4	
1/2	1,844.98	1/2	1,513.30	1/2	1,181.63	1/2	858.82	1/2	556.08	1/2	272.89	1/2	12.54	1/2	1/2	1/2		1/2	
3/4	1,838.07	3/4	1,506.39	3/4	1,174.72	3/4	852.32	3/4	549.98	3/4	267.20	3/4	9.25	3/4	3/4	3/4		3/4	
4	1,831.16	4	1,499.48	4	1,167.81	4	845.82	4	543.88	4	261.52	4	5.95	4	4	4		4	
1/4	1,824.25	1/4	1,492.57	1/4	1,160.90	1/4	839.32	1/4	537.79	1/4	255.84	1/4	2.66	1/4	1/4	1/4		1/4	
1/2	1,817.34	1/2	1,485.66	1/2	1,154.00	1/2	832.86	1/2	531.72	1/2	250.19	1/2		1/2	1/2	1/2		1/2	
3/4	1,810.43	3/4	1,478.75	3/4	1,147.11	3/4	826.40	3/4	525.66	3/4	244.54	3/4		3/4	3/4	3/4		3/4	
5	1,803.52	5	1,471.84	5	1,140.22	5	819.94	5	519.59	5	238.89	5		5	5	5		5	
1/4	1,796.61	1/4	1,464.93	1/4	1,133.33	1/4	813.48	1/4	513.53	1/4	233.24	1/4		1/4	1/4	1/4		1/4	
1/2	1,789.70	1/2	1,458.02	1/2	1,126.47	1/2	807.06	1/2	507.50	1/2	227.62	1/2		1/2	1/2	1/2		1/2	
3/4	1,782.79	3/4	1,451.11	3/4	1,119.61	3/4	800.63	3/4	501.47	3/4	222.01	3/4		3/4	3/4	3/4		3/4	
6	1,775.88	6	1,444.20	6	1,112.75	6	794.20	6	495.44	6	216.39	6		6	6	6		6	
1/4	1,768.97	1/4	1,437.29	1/4	1,105.89	1/4	787.78	1/4	489.41	1/4	210.78	1/4		1/4	1/4	1/4		1/4	
1/2	1,762.06	1/2	1,430.38	1/2	1,099.07	1/2	781.38	1/2	483.42	1/2	205.20	1/2		1/2	1/2	1/2		1/2	
3/4	1,755.15	3/4	1,423.47	3/4	1,092.25	3/4	774.98	3/4	477.42	3/4	199.62	3/4		3/4	3/4	3/4		3/4	
7	1,748.24	7	1,416.56	7	1,085.42	7	768.59	7	471.43	7	194.04	7		7	7	7		7	
1/4	1,741.33	1/4	1,409.65	1/4	1,078.60	1/4	762.19	1/4	465.43	1/4	188.45	1/4		1/4	1/4	1/4		1/4	
1/2	1,734.42	1/2	1,402.74	1/2	1,071.81	1/2	755.83	1/2	459.47	1/2	182.91	1/2		1/2	1/2	1/2		1/2	
3/4	1,727.51	3/4	1,395.83	3/4	1,065.02	3/4	749.47	3/4	453.51	3/4	177.36	3/4		3/4	3/4	3/4		3/4	
8	1,720.60	8	1,388.92	8	1,058.23	8	743.11	8	447.55	8	171.82	8		8	8	8		8	
1/4	1,713.69	1/4	1,382.01	1/4	1,051.44	1/4	736.75	1/4	441.59	1/4	166.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,706.78	1/2	1,375.10	1/2	1,044.69	1/2	730.42	1/2	435.67	1/2	160.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,699.87	3/4	1,368.19	3/4	1,037.93	3/4	724.09	3/4	429.74	3/4	155.25	3/4		3/4	3/4	3/4		3/4	
9	1,692.96	9	1,361.28	9	1,031.18	9	717.77	9	423.81	9	149.74	9		9	9	9		9	
1/4	1,686.05	1/4	1,354.37	1/4	1,024.42	1/4	711.44	1/4	417.89	1/4	144.22	1/4		1/4	1/4	1/4		1/4	
1/2	1,679.14	1/2	1,347.46	1/2	1,017.70	1/2	705.13	1/2	412.00	1/2	138.75	1/2		1/2	1/2	1/2		1/2	
3/4	1,672.23	3/4	1,340.55	3/4	1,010.98	3/4	698.83	3/4	406.11	3/4	133.27	3/4		3/4	3/4	3/4		3/4	
10	1,665.32	10	1,333.64	10	1,004.26	10	692.52	10	400.22	10	127.79	10		10	10	10		10	
1/4	1,658.41	1/4	1,326.73	1/4	997.54	1/4	686.22	1/4	394.32	1/4	122.32	1/4		1/4	1/4	1/4		1/4	
1/2	1,651.50	1/2	1,319.82	1/2	990.86	1/2	679.95	1/2	388.47	1/2	116.87	1/2		1/2	1/2	1/2		1/2	
3/4	1,644.59	3/4	1,312.91	3/4	984.17	3/4	673.68	3/4	382.61	3/4	111.43	3/4		3/4	3/4	3/4		3/4	
11	1,637.68	11	1,306.00	11	977.49	11	667.40	11	376.75	11	105.99	11		11	11	11		11	
1/4	1,630.77	1/4	1,299.09	1/4	970.80	1/4	661.13	1/4	370.90	1/4	100.55	1/4		1/4	1/4	1/4		1/4	
1/2	1,623.86	1/2	1,292.18	1/2	964.15	1/2	654.90	1/2	365.08	1/2	95.14	1/2		1/2	1/2	1/2		1/2	
3/4	1,616.95	3/4	1,285.27	3/4	957.50	3/4	648.66	3/4	359.25	3/4	89.73	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
PRINTED: 02/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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 382"

## 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	
					5,175.06				4,788.66				4,012.41				3,236.12			2,847.94
1/4	1/4	1/4	1/4	1/4	5,167.02	1/4	1/4	1/4	4,780.58	1/4	1/4	1/4	4,004.32	1/4	1/4	1/4	3,228.04	1/4	1/4	2,839.85
1/2	1/2	1/2	1/2	1/2	5,158.98	1/2	1/2	1/2	4,772.49	1/2	1/2	1/2	3,996.24	1/2	1/2	1/2	3,219.95	1/2	1/2	2,831.76
3/4	3/4	3/4	3/4	3/4	5,150.94	3/4	3/4	3/4	4,764.41	3/4	3/4	3/4	3,988.15	3/4	3/4	3/4	3,211.86	3/4	3/4	2,823.68
1	1	1	1	1	5,142.90	1	1	1	4,756.32	1	1	1	3,980.06	1	1	1	3,203.78	1	1	2,815.59
1/4	1/4	1/4	1/4	1/4	5,134.86	1/4	1/4	1/4	4,748.23	1/4	1/4	1/4	3,971.98	1/4	1/4	1/4	3,195.69	1/4	1/4	2,807.50
1/2	1/2	1/2	1/2	1/2	5,126.83	1/2	1/2	1/2	4,740.15	1/2	1/2	1/2	3,963.89	1/2	1/2	1/2	3,187.60	1/2	1/2	2,799.42
3/4	3/4	3/4	3/4	3/4	5,118.79	3/4	3/4	3/4	4,732.06	3/4	3/4	3/4	3,955.81	3/4	3/4	3/4	3,179.51	3/4	3/4	2,791.33
2	2	2	2	2	5,110.75	2	2	2	4,723.98	2	2	2	3,947.72	2	2	2	3,171.43	2	2	2,783.24
1/4	1/4	1/4	1/4	1/4	5,102.71	1/4	1/4	1/4	4,715.89	1/4	1/4	1/4	3,939.63	1/4	1/4	1/4	3,163.34	1/4	1/4	2,775.15
1/2	1/2	1/2	1/2	1/2	5,094.67	1/2	1/2	1/2	4,707.80	1/2	1/2	1/2	3,931.55	1/2	1/2	1/2	3,155.25	1/2	1/2	2,767.07
3/4	3/4	3/4	3/4	3/4	5,086.63	3/4	3/4	3/4	4,699.72	3/4	3/4	3/4	3,923.46	3/4	3/4	3/4	3,147.17	3/4	3/4	2,758.98
3	3	3	3	3	5,078.59	3	3	3	4,691.63	3	3	3	3,915.38	3	3	3	3,139.08	3	3	2,750.89
1/4	1/4	1/4	1/4	1/4	5,070.55	1/4	1/4	1/4	4,683.55	1/4	1/4	1/4	3,907.29	1/4	1/4	1/4	3,130.99	1/4	1/4	2,742.81
1/2	1/2	1/2	1/2	1/2	5,062.51	1/2	1/2	1/2	4,675.46	1/2	1/2	1/2	3,899.20	1/2	1/2	1/2	3,122.90	1/2	1/2	2,734.72
3/4	3/4	3/4	3/4	3/4	5,054.47	3/4	3/4	3/4	4,667.37	3/4	3/4	3/4	3,891.12	3/4	3/4	3/4	3,114.82	3/4	3/4	2,726.63
4	4	4	4	4	5,046.43	4	4	4	4,659.29	4	4	4	3,883.03	4	4	4	3,106.73	4	4	2,718.54
1/4	1/4	1/4	1/4	1/4	5,038.39	1/4	1/4	1/4	4,651.20	1/4	1/4	1/4	3,874.95	1/4	1/4	1/4	3,098.64	1/4	1/4	2,710.46
1/2	1/2	1/2	1/2	1/2	5,030.35	1/2	1/2	1/2	4,643.12	1/2	1/2	1/2	3,866.86	1/2	1/2	1/2	3,090.55	1/2	1/2	2,702.37
3/4	3/4	3/4	3/4	3/4	5,022.32	3/4	3/4	3/4	4,635.03	3/4	3/4	3/4	3,858.77	3/4	3/4	3/4	3,082.47	3/4	3/4	2,694.28
5	5	5	5	5	5,014.28	5	5	5	4,626.94	5	5	5	3,850.69	5	5	5	3,074.38	5	5	2,686.19
1/4	1/4	1/4	1/4	1/4	5,006.24	1/4	1/4	1/4	4,618.86	1/4	1/4	1/4	3,842.60	1/4	1/4	1/4	3,066.29	1/4	1/4	2,678.11
1/2	1/2	1/2	1/2	1/2	4,998.20	1/2	1/2	1/2	4,610.77	1/2	1/2	1/2	3,834.52	1/2	1/2	1/2	3,058.21	1/2	1/2	2,670.02
3/4	3/4	3/4	3/4	3/4	4,990.16	3/4	3/4	3/4	4,602.69	3/4	3/4	3/4	3,826.43	3/4	3/4	3/4	3,050.12	3/4	3/4	2,661.93
6	6	6	6	6	4,982.12	6	6	6	4,594.60	6	6	6	3,818.34	6	6	6	3,042.03	6	6	2,653.85
1/4	1/4	1/4	1/4	1/4	4,974.08	1/4	1/4	1/4	4,586.51	1/4	1/4	1/4	3,810.26	1/4	1/4	1/4	3,033.94	1/4	1/4	2,645.76
1/2	1/2	1/2	1/2	1/2	5,343.81	1/2	1/2	1/2	4,966.04	1/2	1/2	1/2	3,802.17	1/2	1/2	1/2	3,025.86	1/2	1/2	2,637.67
3/4	3/4	3/4	3/4	3/4	5,337.69	3/4	3/4	3/4	4,958.00	3/4	3/4	3/4	3,794.09	3/4	3/4	3/4	3,017.77	3/4	3/4	2,629.58
7	7	7	7	7	5,331.58	7	7	7	4,949.96	7	7	7	3,786.00	7	7	7	3,009.68	7	7	2,621.50
1/4	1/4	1/4	1/4	1/4	5,325.46	1/4	1/4	1/4	4,941.92	1/4	1/4	1/4	3,777.91	1/4	1/4	1/4	3,001.60	1/4	1/4	2,613.41
1/2	1/2	1/2	1/2	1/2	5,317.92	1/2	1/2	1/2	4,933.88	1/2	1/2	1/2	3,769.83	1/2	1/2	1/2	2,993.51	1/2	1/2	2,605.32
3/4	3/4	3/4	3/4	3/4	5,310.38	3/4	3/4	3/4	4,925.85	3/4	3/4	3/4	3,761.74	3/4	3/4	3/4	2,985.42	3/4	3/4	2,597.24
8	8	8	8	8	5,302.84	8	8	8	4,917.81	8	8	8	3,753.66	8	8	8	2,977.33	8	8	2,589.15
1/4	1/4	1/4	1/4	1/4	5,295.30	1/4	1/4	1/4	4,909.77	1/4	1/4	1/4	3,745.57	1/4	1/4	1/4	2,969.25	1/4	1/4	2,581.06
1/2	1/2	1/2	1/2	1/2	5,287.35	1/2	1/2	1/2	4,901.73	1/2	1/2	1/2	3,737.48	1/2	1/2	1/2	2,961.16	1/2	1/2	2,572.97
3/4	3/4	3/4	3/4	3/4	5,279.40	3/4	3/4	3/4	4,893.69	3/4	3/4	3/4	3,729.40	3/4	3/4	3/4	2,953.07	3/4	3/4	2,564.89
9	9	9	9	9	5,271.44	9	9	9	4,885.65	9	9	9	3,721.31	9	9	9	2,944.99	9	9	2,556.80
1/4	1/4	1/4	1/4	1/4	5,263.49	1/4	1/4	1/4	4,877.61	1/4	1/4	1/4	3,713.23	1/4	1/4	1/4	2,936.90	1/4	1/4	2,548.71
1/2	1/2	1/2	1/2	1/2	5,255.45	1/2	1/2	1/2	4,869.52	1/2	1/2	1/2	3,705.14	1/2	1/2	1/2	2,928.81	1/2	1/2	2,540.63
3/4	3/4	3/4	3/4	3/4	5,247.41	3/4	3/4	3/4	4,861.44	3/4	3/4	3/4	3,697.05	3/4	3/4	3/4	2,920.72	3/4	3/4	2,532.54
10	10	10	10	10	5,239.37	10	10	10	4,853.35	10	10	10	3,688.97	10	10	10	2,912.64	10	10	2,524.45
1/4	1/4	1/4	1/4	1/4	5,231.33	1/4	1/4	1/4	4,845.27	1/4	1/4	1/4	3,680.88	1/4	1/4	1/4	2,904.55	1/4	1/4	2,516.36
1/2	1/2	1/2	1/2	1/2	5,223.30	1/2	1/2	1/2	4,837.18	1/2	1/2	1/2	3,672.80	1/2	1/2	1/2	2,896.46	1/2	1/2	2,508.28
3/4	3/4	3/4	3/4	3/4	5,215.26	3/4	3/4	3/4	4,829.09	3/4	3/4	3/4	3,664.71	3/4	3/4	3/4	2,888.37	3/4	3/4	2,500.19
11	11	11	11	11	5,207.22	11	11	11	4,821.01	11	11	11	3,656.62	11	11	11	2,880.29	11	11	2,492.10
1/4	1/4	1/4	1/4	1/4	5,199.18	1/4	1/4	1/4	4,812.92	1/4	1/4	1/4	3,648.54	1/4	1/4	1/4	2,872.20	1/4	1/4	2,484.01
1/2	1/2	1/2	1/2	1/2	5,191.14	1/2	1/2	1/2	4,804.84	1/2	1/2	1/2	3,640.45	1/2	1/2	1/2	2,864.11	1/2	1/2	2,475.93
3/4	3/4	3/4	3/4	3/4	5,183.10	3/4	3/4	3/4	4,796.75	3/4	3/4	3/4	3,632.37	3/4	3/4	3/4	2,856.03	3/4	3/4	2,467.84

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 42'-03" 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 382"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,459.75	0	2,071.57	0	1,683.38	0	1,295.20	0	907.01	0	533.78	0	145.93	0		0		0	
1/4	2,451.67	1/4	2,063.48	1/4	1,675.29	1/4	1,287.11	1/4	898.92	1/4	526.00	1/4	137.85	1/4	1/4	1/4		1/4	1/4
1/2	2,443.58	1/2	2,055.39	1/2	1,667.21	1/2	1,279.02	1/2	891.14	1/2	517.92	1/2	129.76	1/2	1/2	1/2		1/2	1/2
3/4	2,435.49	3/4	2,047.31	3/4	1,659.12	3/4	1,270.93	3/4	883.36	3/4	509.83	3/4	121.67	3/4	3/4	3/4		3/4	3/4
1	2,427.40	1	2,039.22	1	1,651.03	1	1,262.85	1	875.58	1	501.74	1	113.59	1	1	1		1	1
1/4	2,419.32	1/4	2,031.13	1/4	1,642.95	1/4	1,254.76	1/4	867.80	1/4	493.66	1/4	105.50	1/4	1/4	1/4		1/4	1/4
1/2	2,411.23	1/2	2,023.04	1/2	1,634.86	1/2	1,246.67	1/2	860.02	1/2	485.57	1/2	97.41	1/2	1/2	1/2		1/2	1/2
3/4	2,403.14	3/4	2,014.96	3/4	1,626.77	3/4	1,238.59	3/4	852.23	3/4	477.48	3/4	89.33	3/4	3/4	3/4		3/4	3/4
2	2,395.06	2	2,006.87	2	1,618.68	2	1,230.50	2	844.45	2	469.40	2	81.24	2	2	2		2	2
1/4	2,386.97	1/4	1,998.78	1/4	1,610.60	1/4	1,222.41	1/4	836.67	1/4	461.31	1/4	73.15	1/4	1/4	1/4		1/4	1/4
1/2	2,378.88	1/2	1,990.70	1/2	1,602.51	1/2	1,214.32	1/2	828.89	1/2	453.22	1/2	65.36	1/2	1/2	1/2		1/2	1/2
3/4	2,370.79	3/4	1,982.61	3/4	1,594.42	3/4	1,206.24	3/4	821.12	3/4	445.14	3/4	57.56	3/4	3/4	3/4		3/4	3/4
3	2,362.71	3	1,974.52	3	1,586.34	3	1,198.15	3	813.34	3	437.05	3	49.76	3	3	3		3	3
1/4	2,354.62	1/4	1,966.43	1/4	1,578.25	1/4	1,190.06	1/4	805.57	1/4	428.96	1/4	41.96	1/4	1/4	1/4		1/4	1/4
1/2	2,346.53	1/2	1,958.35	1/2	1,570.16	1/2	1,181.98	1/2	797.80	1/2	420.88	1/2	36.19	1/2	1/2	1/2		1/2	1/2
3/4	2,338.45	3/4	1,950.26	3/4	1,562.07	3/4	1,173.89	3/4	790.03	3/4	412.79	3/4	30.41	3/4	3/4	3/4		3/4	3/4
4	2,330.36	4	1,942.17	4	1,553.99	4	1,165.80	4	782.27	4	404.70	4	24.64	4	4	4		4	4
1/4	2,322.27	1/4	1,934.09	1/4	1,545.90	1/4	1,157.71	1/4	774.50	1/4	396.62	1/4	18.86	1/4	1/4	1/4		1/4	1/4
1/2	2,314.18	1/2	1,926.00	1/2	1,537.81	1/2	1,149.63	1/2	766.74	1/2	388.53	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,306.10	3/4	1,917.91	3/4	1,529.73	3/4	1,141.54	3/4	758.97	3/4	380.44	3/4		3/4	3/4	3/4		3/4	3/4
5	2,298.01	5	1,909.82	5	1,521.64	5	1,133.45	5	751.21	5	372.36	5		5	5	5		5	5
1/4	2,289.92	1/4	1,901.74	1/4	1,513.55	1/4	1,125.37	1/4	743.44	1/4	364.27	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,281.83	1/2	1,893.65	1/2	1,505.46	1/2	1,117.28	1/2	735.68	1/2	356.18	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,273.75	3/4	1,885.56	3/4	1,497.38	3/4	1,109.19	3/4	727.91	3/4	348.10	3/4		3/4	3/4	3/4		3/4	3/4
6	2,265.66	6	1,877.47	6	1,489.29	6	1,101.10	6	720.14	6	340.01	6		6	6	6		6	6
1/4	2,257.57	1/4	1,869.39	1/4	1,481.20	1/4	1,093.02	1/4	712.38	1/4	331.92	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,249.49	1/2	1,861.30	1/2	1,473.11	1/2	1,084.93	1/2	704.62	1/2	323.84	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,241.40	3/4	1,853.21	3/4	1,465.03	3/4	1,076.84	3/4	696.86	3/4	315.75	3/4		3/4	3/4	3/4		3/4	3/4
7	2,233.31	7	1,845.13	7	1,456.94	7	1,068.75	7	689.10	7	307.67	7		7	7	7		7	7
1/4	2,225.22	1/4	1,837.04	1/4	1,448.85	1/4	1,060.67	1/4	681.33	1/4	299.58	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,217.14	1/2	1,828.95	1/2	1,440.77	1/2	1,052.58	1/2	673.57	1/2	291.49	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,209.05	3/4	1,820.86	3/4	1,432.68	3/4	1,044.49	3/4	665.81	3/4	283.41	3/4		3/4	3/4	3/4		3/4	3/4
8	2,200.96	8	1,812.78	8	1,424.59	8	1,036.41	8	658.05	8	275.32	8		8	8	8		8	8
1/4	2,192.88	1/4	1,804.69	1/4	1,416.50	1/4	1,028.32	1/4	650.29	1/4	267.23	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,184.79	1/2	1,796.60	1/2	1,408.42	1/2	1,020.23	1/2	642.52	1/2	259.15	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,176.70	3/4	1,788.52	3/4	1,400.33	3/4	1,012.14	3/4	634.76	3/4	251.06	3/4		3/4	3/4	3/4		3/4	3/4
9	2,168.61	9	1,780.43	9	1,392.24	9	1,004.06	9	626.99	9	242.97	9		9	9	9		9	9
1/4	2,160.53	1/4	1,772.34	1/4	1,384.16	1/4	995.97	1/4	619.23	1/4	234.89	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,152.44	1/2	1,764.25	1/2	1,376.07	1/2	987.88	1/2	611.46	1/2	226.80	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,144.35	3/4	1,756.17	3/4	1,367.98	3/4	979.80	3/4	603.70	3/4	218.71	3/4		3/4	3/4	3/4		3/4	3/4
10	2,136.27	10	1,748.08	10	1,359.89	10	971.71	10	595.93	10	210.63	10		10	10	10		10	10
1/4	2,128.18	1/4	1,739.99	1/4	1,351.81	1/4	963.62	1/4	588.16	1/4	202.54	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,120.09	1/2	1,731.91	1/2	1,343.72	1/2	955.53	1/2	580.40	1/2	194.45	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,112.00	3/4	1,723.82	3/4	1,335.63	3/4	947.45	3/4	572.63	3/4	186.37	3/4		3/4	3/4	3/4		3/4	3/4
11	2,103.92	11	1,715.73	11	1,327.55	11	939.36	11	564.87	11	178.28	11		11	11	11		11	11
1/4	2,095.83	1/4	1,707.64	1/4	1,319.46	1/4	931.27	1/4	557.10	1/4	170.19	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,087.74	1/2	1,699.56	1/2	1,311.37	1/2	923.19	1/2	549.33	1/2	162.11	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,079.65	3/4	1,691.47	3/4	1,303.28	3/4	915.10	3/4	541.55	3/4	154.02	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
PRINTED: 02/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "EMS 382"

## 2 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	5,212.91	0	4,826.76	0	4,438.71	0	4,050.66	0	3,662.62	0	3,274.55	0	2,886.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,204.87	1/4	4,818.67	1/4	4,430.63	1/4	4,042.58	1/4	3,654.53	1/4	3,266.46	1/4	2,878.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,196.84	1/2	4,810.59	1/2	4,422.54	1/2	4,034.50	1/2	3,646.45	1/2	3,258.38	1/2	2,870.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,188.80	3/4	4,802.50	3/4	4,414.46	3/4	4,026.41	3/4	3,638.36	3/4	3,250.29	3/4	2,862.19
1		1		1		1	5,180.76	1	4,794.42	1	4,406.37	1	4,018.33	1	3,630.28	1	3,242.21	1	2,854.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,172.73	1/4	4,786.34	1/4	4,398.29	1/4	4,010.24	1/4	3,622.20	1/4	3,234.12	1/4	2,846.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,164.69	1/2	4,778.25	1/2	4,390.20	1/2	4,002.16	1/2	3,614.11	1/2	3,226.04	1/2	2,837.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,156.65	3/4	4,770.17	3/4	4,382.12	3/4	3,994.07	3/4	3,606.03	3/4	3,217.95	3/4	2,829.85
2		2		2		2	5,148.62	2	4,762.08	2	4,374.04	2	3,985.99	2	3,597.94	2	3,209.87	2	2,821.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,140.58	1/4	4,754.00	1/4	4,365.95	1/4	3,977.91	1/4	3,589.86	1/4	3,201.78	1/4	2,813.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,132.54	1/2	4,745.91	1/2	4,357.87	1/2	3,969.82	1/2	3,581.77	1/2	3,193.70	1/2	2,805.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,124.50	3/4	4,737.83	3/4	4,349.78	3/4	3,961.74	3/4	3,573.69	3/4	3,185.61	3/4	2,797.51
3		3		3		3	5,116.47	3	4,729.75	3	4,341.70	3	3,953.65	3	3,565.61	3	3,177.52	3	2,789.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,108.43	1/4	4,721.66	1/4	4,333.61	1/4	3,945.57	1/4	3,557.52	1/4	3,169.44	1/4	2,781.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,100.39	1/2	4,713.58	1/2	4,325.53	1/2	3,937.48	1/2	3,549.44	1/2	3,161.35	1/2	2,773.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,092.36	3/4	4,705.49	3/4	4,317.45	3/4	3,929.40	3/4	3,541.35	3/4	3,153.27	3/4	2,765.17
4		4		4		4	5,084.32	4	4,697.41	4	4,309.36	4	3,921.32	4	3,533.27	4	3,145.18	4	2,757.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,076.28	1/4	4,689.32	1/4	4,301.28	1/4	3,913.23	1/4	3,525.18	1/4	3,137.10	1/4	2,749.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,068.25	1/2	4,681.24	1/2	4,293.19	1/2	3,905.15	1/2	3,517.10	1/2	3,129.01	1/2	2,740.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.21	3/4	4,673.15	3/4	4,285.11	3/4	3,897.06	3/4	3,509.02	3/4	3,120.93	3/4	2,732.83
5		5		5		5	5,052.17	5	4,665.07	5	4,277.02	5	3,888.98	5	3,500.93	5	3,112.84	5	2,724.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,044.13	1/4	4,656.99	1/4	4,268.94	1/4	3,880.89	1/4	3,492.85	1/4	3,104.76	1/4	2,716.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,036.10	1/2	4,648.90	1/2	4,260.86	1/2	3,872.81	1/2	3,484.76	1/2	3,096.67	1/2	2,708.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,028.06	3/4	4,640.82	3/4	4,252.77	3/4	3,864.72	3/4	3,476.68	3/4	3,088.58	3/4	2,700.49
6		6		6		6	5,020.02	6	4,632.73	6	4,244.69	6	3,856.64	6	3,468.59	6	3,080.50	6	2,692.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.99	1/4	4,624.65	1/4	4,236.60	1/4	3,848.56	1/4	3,460.51	1/4	3,072.41	1/4	2,684.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,003.95	1/2	4,616.56	1/2	4,228.52	1/2	3,840.47	1/2	3,452.43	1/2	3,064.33	1/2	2,676.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.91	3/4	4,608.48	3/4	4,220.43	3/4	3,832.39	3/4	3,444.34	3/4	3,056.24	3/4	2,668.14
7		7		7		7	4,987.88	7	4,600.40	7	4,212.35	7	3,824.30	7	3,436.26	7	3,048.16	7	2,660.06
1/4	1/4	1/4	5,357.51	1/4	4,979.84	1/4	4,592.31	1/4	4,204.27	1/4	3,816.22	1/4	3,428.17	1/4	3,040.07	1/4	2,651.97		
1/2	1/2	1/2	5,351.39	1/2	4,971.80	1/2	4,584.23	1/2	4,196.18	1/2	3,808.13	1/2	3,420.09	1/2	3,031.99	1/2	2,643.89		
3/4	3/4	3/4	5,345.28	3/4	4,963.76	3/4	4,576.14	3/4	4,188.10	3/4	3,800.05	3/4	3,412.00	3/4	3,023.90	3/4	2,635.80		
8		8	5,339.17	8	4,955.73	8	4,568.06	8	4,180.01	8	3,791.97	8	3,403.92	8	3,015.82	8	2,627.72		
1/4	1/4	1/4	5,331.63	1/4	4,947.69	1/4	4,559.97	1/4	4,171.93	1/4	3,783.88	1/4	3,395.83	1/4	3,007.73	1/4	2,619.63		
1/2	1/2	1/2	5,324.09	1/2	4,939.65	1/2	4,551.89	1/2	4,163.84	1/2	3,775.80	1/2	3,387.74	1/2	2,999.65	1/2	2,611.55		
3/4	3/4	3/4	5,316.55	3/4	4,931.62	3/4	4,543.81	3/4	4,155.76	3/4	3,767.71	3/4	3,379.66	3/4	2,991.56	3/4	2,603.46		
9		9	5,309.01	9	4,923.58	9	4,535.72	9	4,147.68	9	3,759.63	9	3,371.57	9	2,983.47	9	2,595.38		
1/4	1/4	1/4	5,301.06	1/4	4,915.54	1/4	4,527.64	1/4	4,139.59	1/4	3,751.54	1/4	3,363.49	1/4	2,975.39	1/4	2,587.29		
1/2	1/2	1/2	5,293.11	1/2	4,907.51	1/2	4,519.55	1/2	4,131.51	1/2	3,743.46	1/2	3,355.40	1/2	2,967.30	1/2	2,579.20		
3/4	3/4	3/4	5,285.16	3/4	4,899.47	3/4	4,511.47	3/4	4,123.42	3/4	3,735.38	3/4	3,347.32	3/4	2,959.22	3/4	2,571.12		
10		10	5,277.21	10	4,891.43	10	4,503.38	10	4,115.34	10	3,727.29	10	3,339.23	10	2,951.13	10	2,563.03		
1/4	1/4	1/4	5,269.17	1/4	4,883.35	1/4	4,495.30	1/4	4,107.25	1/4	3,719.21	1/4	3,331.15	1/4	2,943.05	1/4	2,554.95		
1/2	1/2	1/2	5,261.13	1/2	4,875.26	1/2	4,487.22	1/2	4,099.17	1/2	3,711.12	1/2	3,323.06	1/2	2,934.96	1/2	2,546.86		
3/4	3/4	3/4	5,253.10	3/4	4,867.18	3/4	4,479.13	3/4	4,091.09	3/4	3,703.04	3/4	3,314.98	3/4	2,926.88	3/4	2,538.78		
11		11	5,245.06	11	4,859.09	11	4,471.05	11	4,083.00	11	3,694.95	11	3,306.89	11	2,918.79	11	2,530.69		
1/4	1/4	1/4	5,237.02	1/4	4,851.01	1/4	4,462.96	1/4	4,074.92	1/4	3,686.87	1/4	3,298.81	1/4	2,910.71	1/4	2,522.61		
1/2	1/2	1/2	5,228.99	1/2	4,842.93	1/2	4,454.88	1/2	4,066.83	1/2	3,678.79	1/2	3,290.72	1/2	2,902.62	1/2	2,514.52		
3/4	3/4	3/4	5,220.95	3/4	4,834.84	3/4	4,446.79	3/4	4,058.75	3/4	3,670.70	3/4	3,282.63	3/4	2,894.54	3/4	2,506.44		

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 42'-03" 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 382"

## 2 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	2,498.35	0	2,110.25	0	1,722.15	0	1,334.05	0	945.95	0	558.23	0	170.16	0		0		0	
1/4	2,490.27	1/4	2,102.17	1/4	1,714.07	1/4	1,325.97	1/4	937.87	1/4	550.14	1/4	162.07	1/4	1/4	1/4		1/4	1/4
1/2	2,482.18	1/2	2,094.08	1/2	1,705.98	1/2	1,317.88	1/2	929.78	1/2	542.06	1/2	153.99	1/2	1/2	1/2		1/2	1/2
3/4	2,474.09	3/4	2,086.00	3/4	1,697.90	3/4	1,309.80	3/4	921.70	3/4	533.97	3/4	145.90	3/4	3/4	3/4		3/4	3/4
1	2,466.01	1	2,077.91	1	1,689.81	1	1,301.71	1	913.61	1	525.89	1	137.82	1	1	1		1	1
1/4	2,457.92	1/4	2,069.82	1/4	1,681.73	1/4	1,293.63	1/4	905.53	1/4	517.80	1/4	129.73	1/4	1/4	1/4		1/4	1/4
1/2	2,449.84	1/2	2,061.74	1/2	1,673.64	1/2	1,285.54	1/2	897.44	1/2	509.72	1/2	121.65	1/2	1/2	1/2		1/2	1/2
3/4	2,441.75	3/4	2,053.65	3/4	1,665.55	3/4	1,277.46	3/4	889.36	3/4	501.63	3/4	113.56	3/4	3/4	3/4		3/4	3/4
2	2,433.67	2	2,045.57	2	1,657.47	2	1,269.37	2	881.27	2	493.55	2	105.48	2	2	2		2	2
1/4	2,425.58	1/4	2,037.48	1/4	1,649.38	1/4	1,261.28	1/4	873.19	1/4	485.46	1/4	97.39	1/4	1/4	1/4		1/4	1/4
1/2	2,417.50	1/2	2,029.40	1/2	1,641.30	1/2	1,253.20	1/2	865.10	1/2	477.38	1/2	89.31	1/2	1/2	1/2		1/2	1/2
3/4	2,409.41	3/4	2,021.31	3/4	1,633.21	3/4	1,245.11	3/4	857.01	3/4	469.29	3/4	81.22	3/4	3/4	3/4		3/4	3/4
3	2,401.33	3	2,013.23	3	1,625.13	3	1,237.03	3	848.93	3	461.21	3	73.14	3	3	3		3	3
1/4	2,393.24	1/4	2,005.14	1/4	1,617.04	1/4	1,228.94	1/4	840.84	1/4	453.12	1/4	65.34	1/4	1/4	1/4		1/4	1/4
1/2	2,385.16	1/2	1,997.06	1/2	1,608.96	1/2	1,220.86	1/2	832.76	1/2	445.04	1/2	57.55	1/2	1/2	1/2		1/2	1/2
3/4	2,377.07	3/4	1,988.97	3/4	1,600.87	3/4	1,212.77	3/4	824.67	3/4	436.95	3/4	49.75	3/4	3/4	3/4		3/4	3/4
4	2,368.98	4	1,980.89	4	1,592.79	4	1,204.69	4	816.59	4	428.87	4	41.95	4	4	4		4	4
1/4	2,360.90	1/4	1,972.80	1/4	1,584.70	1/4	1,196.60	1/4	808.51	1/4	420.78	1/4	36.18	1/4	1/4	1/4		1/4	1/4
1/2	2,352.81	1/2	1,964.71	1/2	1,576.62	1/2	1,188.52	1/2	800.44	1/2	412.70	1/2	30.41	1/2	1/2	1/2		1/2	1/2
3/4	2,344.73	3/4	1,956.63	3/4	1,568.53	3/4	1,180.43	3/4	792.36	3/4	404.61	3/4	24.63	3/4	3/4	3/4		3/4	3/4
5	2,336.64	5	1,948.54	5	1,560.44	5	1,172.35	5	784.29	5	396.53	5	18.86	5	5	5		5	5
1/4	2,328.56	1/4	1,940.46	1/4	1,552.36	1/4	1,164.26	1/4	776.21	1/4	388.44	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,320.47	1/2	1,932.37	1/2	1,544.27	1/2	1,156.17	1/2	768.14	1/2	380.36	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,312.39	3/4	1,924.29	3/4	1,536.19	3/4	1,148.09	3/4	760.06	3/4	372.28	3/4		3/4	3/4	3/4		3/4	3/4
6	2,304.30	6	1,916.20	6	1,528.10	6	1,140.00	6	751.99	6	364.19	6		6	6	6		6	6
1/4	2,296.22	1/4	1,908.12	1/4	1,520.02	1/4	1,131.92	1/4	743.91	1/4	356.11	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,288.13	1/2	1,900.03	1/2	1,511.93	1/2	1,123.83	1/2	735.84	1/2	348.02	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,280.04	3/4	1,891.95	3/4	1,503.85	3/4	1,115.75	3/4	727.76	3/4	339.94	3/4		3/4	3/4	3/4		3/4	3/4
7	2,271.96	7	1,883.86	7	1,495.76	7	1,107.66	7	719.69	7	331.85	7		7	7	7		7	7
1/4	2,263.87	1/4	1,875.77	1/4	1,487.68	1/4	1,099.58	1/4	711.62	1/4	323.77	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,255.79	1/2	1,867.69	1/2	1,479.59	1/2	1,091.49	1/2	703.55	1/2	315.68	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,247.70	3/4	1,859.60	3/4	1,471.50	3/4	1,083.41	3/4	695.48	3/4	307.60	3/4		3/4	3/4	3/4		3/4	3/4
8	2,239.62	8	1,851.52	8	1,463.42	8	1,075.32	8	687.40	8	299.51	8		8	8	8		8	8
1/4	2,231.53	1/4	1,843.43	1/4	1,455.33	1/4	1,067.23	1/4	679.33	1/4	291.43	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,223.45	1/2	1,835.35	1/2	1,447.25	1/2	1,059.15	1/2	671.26	1/2	283.34	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,215.36	3/4	1,827.26	3/4	1,439.16	3/4	1,051.06	3/4	663.19	3/4	275.26	3/4		3/4	3/4	3/4		3/4	3/4
9	2,207.28	9	1,819.18	9	1,431.08	9	1,042.98	9	655.12	9	267.17	9		9	9	9		9	9
1/4	2,199.19	1/4	1,811.09	1/4	1,422.99	1/4	1,034.89	1/4	647.05	1/4	259.09	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,191.11	1/2	1,803.01	1/2	1,414.91	1/2	1,026.81	1/2	638.97	1/2	251.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,183.02	3/4	1,794.92	3/4	1,406.82	3/4	1,018.72	3/4	630.90	3/4	242.92	3/4		3/4	3/4	3/4		3/4	3/4
10	2,174.93	10	1,786.84	10	1,398.74	10	1,010.64	10	622.82	10	234.83	10		10	10	10		10	10
1/4	2,166.85	1/4	1,778.75	1/4	1,390.65	1/4	1,002.55	1/4	614.75	1/4	226.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,158.76	1/2	1,770.66	1/2	1,382.57	1/2	994.47	1/2	606.67	1/2	218.66	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,150.68	3/4	1,762.58	3/4	1,374.48	3/4	986.38	3/4	598.60	3/4	210.58	3/4		3/4	3/4	3/4		3/4	3/4
11	2,142.59	11	1,754.49	11	1,366.39	11	978.30	11	590.52	11	202.49	11		11	11	11		11	11
1/4	2,134.51	1/4	1,746.41	1/4	1,358.31	1/4	970.21	1/4	582.45	1/4	194.41	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,126.42	1/2	1,738.32	1/2	1,350.22	1/2	962.12	1/2	574.37	1/2	186.32	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,118.34	3/4	1,730.24	3/4	1,342.14	3/4	954.04	3/4	566.30	3/4	178.24	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
PRINTED: 02/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 382"

## 3 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,595.24	0	4,290.48	0	3,984.39	0	3,678.29	0	3,368.77	0	3,008.02	0	2,647.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.90	1/4	4,284.11	1/4	3,978.01	1/4	3,671.91	1/4	3,361.25	1/4	3,000.51	1/4	2,639.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,582.55	1/2	4,277.73	1/2	3,971.63	1/2	3,665.54	1/2	3,353.73	1/2	2,992.99	1/2	2,632.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.21	3/4	4,271.35	3/4	3,965.26	3/4	3,659.16	3/4	3,346.21	3/4	2,985.48	3/4	2,624.59		
1		1		1		1	4,569.87	1	4,264.98	1	3,958.88	1	3,652.78	1	3,338.69	1	2,977.97	1	2,617.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.53	1/4	4,258.60	1/4	3,952.50	1/4	3,646.41	1/4	3,331.17	1/4	2,970.45	1/4	2,609.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,557.19	1/2	4,252.22	1/2	3,946.13	1/2	3,640.03	1/2	3,323.65	1/2	2,962.94	1/2	2,602.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,550.85	3/4	4,245.84	3/4	3,939.75	3/4	3,633.65	3/4	3,316.13	3/4	2,955.43	3/4	2,594.51		
2		2		2		2	4,544.51	2	4,239.47	2	3,933.37	2	3,627.28	2	3,308.61	2	2,947.91	2	2,586.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,538.17	1/4	4,233.09	1/4	3,926.99	1/4	3,620.90	1/4	3,301.09	1/4	2,940.40	1/4	2,579.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,531.83	1/2	4,226.71	1/2	3,920.62	1/2	3,614.52	1/2	3,293.57	1/2	2,932.89	1/2	2,571.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,525.49	3/4	4,220.34	3/4	3,914.24	3/4	3,608.14	3/4	3,286.05	3/4	2,925.37	3/4	2,564.43		
3		3		3		3	4,519.15	3	4,213.96	3	3,907.86	3	3,601.77	3	3,278.53	3	2,917.86	3	2,556.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,512.81	1/4	4,207.58	1/4	3,901.49	1/4	3,595.39	1/4	3,271.01	1/4	2,910.35	1/4	2,549.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,506.47	1/2	4,201.21	1/2	3,895.11	1/2	3,589.01	1/2	3,263.49	1/2	2,902.83	1/2	2,541.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,500.13	3/4	4,194.83	3/4	3,888.73	3/4	3,582.64	3/4	3,255.97	3/4	2,895.32	3/4	2,534.35		
4		4		4		4	4,493.79	4	4,188.45	4	3,882.36	4	3,576.26	4	3,248.45	4	2,887.81	4	2,526.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,487.44	1/4	4,182.07	1/4	3,875.98	1/4	3,569.88	1/4	3,240.93	1/4	2,880.29	1/4	2,519.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,481.10	1/2	4,175.70	1/2	3,869.60	1/2	3,563.51	1/2	3,233.42	1/2	2,872.77	1/2	2,511.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,474.76	3/4	4,169.32	3/4	3,863.22	3/4	3,557.13	3/4	3,225.90	3/4	2,865.25	3/4	2,504.26		
5		5		5		5	4,468.42	5	4,162.94	5	3,856.85	5	3,550.75	5	3,218.39	5	2,857.73	5	2,496.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,462.08	1/4	4,156.57	1/4	3,850.47	1/4	3,544.37	1/4	3,210.88	1/4	2,850.21	1/4	2,489.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,455.74	1/2	4,150.19	1/2	3,844.09	1/2	3,538.00	1/2	3,203.37	1/2	2,842.69	1/2	2,481.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,449.40	3/4	4,143.81	3/4	3,837.72	3/4	3,531.62	3/4	3,195.85	3/4	2,835.17	3/4	2,474.18		
6		6		6		6	4,443.06	6	4,137.44	6	3,831.34	6	3,525.24	6	3,188.34	6	2,827.65	6	2,466.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,436.72	1/4	4,131.06	1/4	3,824.96	1/4	3,518.87	1/4	3,180.83	1/4	2,820.13	1/4	2,459.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,430.38	1/2	4,124.68	1/2	3,818.59	1/2	3,512.49	1/2	3,173.32	1/2	2,812.61	1/2	2,451.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,424.04	3/4	4,118.30	3/4	3,812.21	3/4	3,506.11	3/4	3,165.80	3/4	2,805.09	3/4	2,444.10		
7		7		7		7	4,417.70	7	4,111.93	7	3,805.83	7	3,499.74	7	3,158.29	7	2,797.57	7	2,436.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,411.36	1/4	4,105.55	1/4	3,799.45	1/4	3,493.36	1/4	3,150.78	1/4	2,790.05	1/4	2,429.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.02	1/2	4,099.17	1/2	3,793.08	1/2	3,486.98	1/2	3,143.26	1/2	2,782.52	1/2	2,421.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,408.60	3/4	4,092.80	3/4	3,786.70	3/4	3,480.60	3/4	3,135.75	3/4	2,775.00	3/4	2,414.02		
8		8		8		8	4,401.59	8	4,392.33	8	4,086.42	8	3,780.32	8	3,474.23	8	3,128.23	8	2,767.48	8	2,406.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,395.57	1/4	4,385.99	1/4	4,080.04	1/4	3,773.95	1/4	3,467.85	1/4	3,120.72	1/4	2,759.96	1/4	2,398.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,387.18	1/2	4,379.65	1/2	4,073.67	1/2	3,767.57	1/2	3,461.47	1/2	3,113.21	1/2	2,752.44	1/2	2,391.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,379.78	3/4	4,373.31	3/4	4,067.29	3/4	3,761.19	3/4	3,455.10	3/4	3,105.69	3/4	2,744.92	3/4	2,383.93
9		9		9		9	4,372.38	9	4,366.97	9	4,060.91	9	3,754.82	9	3,448.72	9	3,098.18	9	2,737.40	9	2,376.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,364.98	1/4	4,360.63	1/4	4,054.53	1/4	3,748.44	1/4	3,442.34	1/4	3,090.67	1/4	2,729.88	1/4	2,368.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,358.64	1/2	4,354.25	1/2	4,048.16	1/2	3,742.06	1/2	3,435.97	1/2	3,083.15	1/2	2,722.36	1/2	2,361.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,352.30	3/4	4,347.88	3/4	4,041.78	3/4	3,735.68	3/4	3,429.59	3/4	3,075.64	3/4	2,714.84	3/4	2,353.85
10		10		10		10	4,345.96	10	4,341.50	10	4,035.40	10	3,729.31	10	3,423.21	10	3,068.13	10	2,707.32	10	2,346.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,339.62	1/4	4,335.12	1/4	4,029.03	1/4	3,722.93	1/4	3,416.83	1/4	3,060.61	1/4	2,699.80	1/4	2,338.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,333.28	1/2	4,328.75	1/2	4,022.65	1/2	3,716.55	1/2	3,410.46	1/2	3,053.10	1/2	2,692.28	1/2	2,331.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.94	3/4	4,322.37	3/4	4,016.27	3/4	3,710.18	3/4	3,404.08	3/4	3,045.59	3/4	2,684.76	3/4	2,323.77
11		11		11		11	4,320.60	11	4,315.99	11	4,009.90	11	3,703.80	11	3,397.70	11	3,038.07	11	2,677.24	11	2,316.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,314.26	1/4	4,309.61	1/4	4,003.52	1/4	3,697.42	1/4	3,391.33	1/4	3,030.56	1/4	2,669.72	1/4	2,308.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.92	1/2	4,303.24	1/2	3,997.14	1/2	3,691.05	1/2	3,383.81	1/2	3,023.05	1/2	2,662.20	1/2	2,301.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,301.58	3/4	4,296.86	3/4	3,990.76	3/4	3,684.67	3/4	3,376.29	3/4	3,015.53	3/4	2,654.67	3/4	2,293.69

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 382"

## 3 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,286.17		1,925.66		1,565.36		1,204.53		843.90		496.51		135.76						
1/4	2,278.64	1/4	1,918.16	1/4	1,557.84	1/4	1,197.01	1/4	836.39	1/4	489.27	1/4	128.24	1/4		1/4		1/4	
1/2	2,271.12	1/2	1,910.66	1/2	1,550.32	1/2	1,189.49	1/2	829.16	1/2	481.75	1/2	120.72	1/2		1/2		1/2	
3/4	2,263.60	3/4	1,903.17	3/4	1,542.80	3/4	1,181.97	3/4	821.93	3/4	474.23	3/4	113.20	3/4		3/4		3/4	
1	2,256.08	1	1,895.67	1	1,535.29	1	1,174.46	1	814.70	1	466.71	1	105.68	1		1		1	
1/4	2,248.56	1/4	1,888.17	1/4	1,527.77	1/4	1,166.94	1/4	807.47	1/4	459.19	1/4	98.16	1/4		1/4		1/4	
1/2	2,241.04	1/2	1,880.67	1/2	1,520.25	1/2	1,159.42	1/2	800.24	1/2	451.67	1/2	90.63	1/2		1/2		1/2	
3/4	2,233.52	3/4	1,873.17	3/4	1,512.73	3/4	1,151.90	3/4	793.01	3/4	444.14	3/4	83.11	3/4		3/4		3/4	
2	2,226.00	2	1,865.68	2	1,505.22	2	1,144.39	2	785.78	2	436.62	2	75.59	2		2		2	
1/4	2,218.48	1/4	1,858.18	1/4	1,497.70	1/4	1,136.87	1/4	778.55	1/4	429.10	1/4	68.07	1/4		1/4		1/4	
1/2	2,210.96	1/2	1,850.68	1/2	1,490.18	1/2	1,129.35	1/2	771.31	1/2	421.58	1/2	60.82	1/2		1/2		1/2	
3/4	2,203.44	3/4	1,843.18	3/4	1,482.67	3/4	1,121.83	3/4	764.07	3/4	414.06	3/4	53.56	3/4		3/4		3/4	
3	2,195.92	3	1,835.69	3	1,475.15	3	1,114.32	3	756.82	3	406.54	3	46.31	3		3		3	
1/4	2,188.40	1/4	1,828.19	1/4	1,467.63	1/4	1,106.80	1/4	749.58	1/4	399.02	1/4	39.06	1/4		1/4		1/4	
1/2	2,180.88	1/2	1,820.69	1/2	1,460.11	1/2	1,099.28	1/2	742.35	1/2	391.49	1/2	33.69	1/2		1/2		1/2	
3/4	2,173.36	3/4	1,813.19	3/4	1,452.60	3/4	1,091.77	3/4	735.12	3/4	383.97	3/4	28.32	3/4		3/4		3/4	
4	2,165.84	4	1,805.70	4	1,445.08	4	1,084.25	4	727.89	4	376.45	4	22.94	4		4		4	
1/4	2,158.32	1/4	1,798.20	1/4	1,437.56	1/4	1,076.73	1/4	720.66	1/4	368.93	1/4	17.57	1/4		1/4		1/4	
1/2	2,150.79	1/2	1,790.70	1/2	1,430.04	1/2	1,069.21	1/2	713.43	1/2	361.41	1/2		1/2		1/2		1/2	
3/4	2,143.27	3/4	1,783.20	3/4	1,422.53	3/4	1,061.70	3/4	706.20	3/4	353.89	3/4		3/4		3/4		3/4	
5	2,135.75	5	1,775.71	5	1,415.01	5	1,054.18	5	698.97	5	346.37	5		5		5		5	
1/4	2,128.23	1/4	1,768.21	1/4	1,407.49	1/4	1,046.66	1/4	691.74	1/4	338.84	1/4		1/4		1/4		1/4	
1/2	2,120.71	1/2	1,760.71	1/2	1,399.98	1/2	1,039.14	1/2	684.51	1/2	331.32	1/2		1/2		1/2		1/2	
3/4	2,113.19	3/4	1,753.21	3/4	1,392.46	3/4	1,031.63	3/4	677.28	3/4	323.80	3/4		3/4		3/4		3/4	
6	2,105.67	6	1,745.72	6	1,384.94	6	1,024.11	6	670.04	6	316.28	6		6		6		6	
1/4	2,098.15	1/4	1,738.22	1/4	1,377.42	1/4	1,016.59	1/4	662.81	1/4	308.76	1/4		1/4		1/4		1/4	
1/2	2,090.64	1/2	1,730.71	1/2	1,369.91	1/2	1,009.08	1/2	655.59	1/2	301.24	1/2		1/2		1/2		1/2	
3/4	2,083.13	3/4	1,723.20	3/4	1,362.39	3/4	1,001.58	3/4	648.36	3/4	293.71	3/4		3/4		3/4		3/4	
7	2,075.62	7	1,715.69	7	1,354.87	7	994.07	7	641.13	7	286.19	7		7		7		7	
1/4	2,068.11	1/4	1,708.18	1/4	1,347.35	1/4	986.56	1/4	633.91	1/4	278.67	1/4		1/4		1/4		1/4	
1/2	2,060.61	1/2	1,700.67	1/2	1,339.84	1/2	979.05	1/2	626.68	1/2	271.15	1/2		1/2		1/2		1/2	
3/4	2,053.12	3/4	1,693.15	3/4	1,332.32	3/4	971.54	3/4	619.46	3/4	263.63	3/4		3/4		3/4		3/4	
8	2,045.62	8	1,685.63	8	1,324.80	8	964.03	8	612.23	8	256.11	8		8		8		8	
1/4	2,038.12	1/4	1,678.12	1/4	1,317.28	1/4	956.53	1/4	605.00	1/4	248.59	1/4		1/4		1/4		1/4	
1/2	2,030.62	1/2	1,670.60	1/2	1,309.77	1/2	949.02	1/2	597.77	1/2	241.06	1/2		1/2		1/2		1/2	
3/4	2,023.13	3/4	1,663.08	3/4	1,302.25	3/4	941.51	3/4	590.54	3/4	233.54	3/4		3/4		3/4		3/4	
9	2,015.63	9	1,655.56	9	1,294.73	9	934.00	9	583.31	9	226.02	9		9		9		9	
1/4	2,008.13	1/4	1,648.05	1/4	1,287.22	1/4	926.49	1/4	576.08	1/4	218.50	1/4		1/4		1/4		1/4	
1/2	2,000.63	1/2	1,640.53	1/2	1,279.70	1/2	918.98	1/2	568.85	1/2	210.98	1/2		1/2		1/2		1/2	
3/4	1,993.14	3/4	1,633.01	3/4	1,272.18	3/4	911.48	3/4	561.62	3/4	203.46	3/4		3/4		3/4		3/4	
10	1,985.64	10	1,625.49	10	1,264.66	10	903.97	10	554.39	10	195.94	10		10		10		10	
1/4	1,978.14	1/4	1,617.98	1/4	1,257.15	1/4	896.46	1/4	547.16	1/4	188.41	1/4		1/4		1/4		1/4	
1/2	1,970.64	1/2	1,610.46	1/2	1,249.63	1/2	888.95	1/2	539.93	1/2	180.89	1/2		1/2		1/2		1/2	
3/4	1,963.15	3/4	1,602.94	3/4	1,242.11	3/4	881.44	3/4	532.70	3/4	173.37	3/4		3/4		3/4		3/4	
11	1,955.65	11	1,595.42	11	1,234.59	11	873.94	11	525.47	11	165.85	11		11		11		11	
1/4	1,948.15	1/4	1,587.91	1/4	1,227.08	1/4	866.43	1/4	518.23	1/4	158.33	1/4		1/4		1/4		1/4	
1/2	1,940.65	1/2	1,580.39	1/2	1,219.56	1/2	858.92	1/2	510.99	1/2	150.81	1/2		1/2		1/2		1/2	
3/4	1,933.16	3/4	1,572.87	3/4	1,212.04	3/4	851.41	3/4	503.75	3/4	143.28	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
PRINTED: 02/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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





# BARGE "EMS 382"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,614.63	0	4,310.10	0	4,004.09	0	3,698.07	0	3,392.06	0	3,033.07	0	2,672.88		
1/4		1/4		1/4		1/4	4,608.29	1/4	4,303.73	1/4	3,997.71	1/4	3,691.70	1/4	3,385.69	1/4	3,025.57	1/4	2,665.37		
1/2		1/2		1/2		1/2	4,601.96	1/2	4,297.35	1/2	3,991.34	1/2	3,685.32	1/2	3,378.18	1/2	3,018.07	1/2	2,657.86		
3/4		3/4		3/4		3/4	4,595.62	3/4	4,290.98	3/4	3,984.96	3/4	3,678.95	3/4	3,370.67	3/4	3,010.57	3/4	2,650.36		
1		1		1		1	4,589.28	1	4,284.60	1	3,978.59	1	3,672.57	1	3,363.17	1	3,003.07	1	2,642.85		
1/4		1/4		1/4		1/4	4,582.94	1/4	4,278.23	1/4	3,972.21	1/4	3,666.20	1/4	3,355.66	1/4	2,995.57	1/4	2,635.34		
1/2		1/2		1/2		1/2	4,576.60	1/2	4,271.85	1/2	3,965.84	1/2	3,659.82	1/2	3,348.15	1/2	2,988.07	1/2	2,627.83		
3/4		3/4		3/4		3/4	4,570.26	3/4	4,265.48	3/4	3,959.46	3/4	3,653.45	3/4	3,340.65	3/4	2,980.57	3/4	2,620.33		
2		2		2		2	4,563.92	2	4,259.10	2	3,953.09	2	3,647.07	2	3,333.14	2	2,973.07	2	2,612.82		
1/4		1/4		1/4		1/4	4,557.58	1/4	4,252.73	1/4	3,946.71	1/4	3,640.70	1/4	3,325.63	1/4	2,965.57	1/4	2,605.31		
1/2		1/2		1/2		1/2	4,551.24	1/2	4,246.35	1/2	3,940.34	1/2	3,634.32	1/2	3,318.13	1/2	2,958.07	1/2	2,597.80		
3/4		3/4		3/4		3/4	4,544.90	3/4	4,239.98	3/4	3,933.96	3/4	3,627.95	3/4	3,310.62	3/4	2,950.57	3/4	2,590.30		
3		3		3		3	4,538.56	3	4,233.60	3	3,927.59	3	3,621.57	3	3,303.12	3	2,943.07	3	2,582.79		
1/4		1/4		1/4		1/4	4,532.23	1/4	4,227.22	1/4	3,921.21	1/4	3,615.20	1/4	3,295.61	1/4	2,935.57	1/4	2,575.28		
1/2		1/2		1/2		1/2	4,525.89	1/2	4,220.85	1/2	3,914.84	1/2	3,608.82	1/2	3,288.10	1/2	2,928.07	1/2	2,567.78		
3/4		3/4		3/4		3/4	4,519.55	3/4	4,214.47	3/4	3,908.46	3/4	3,602.45	3/4	3,280.60	3/4	2,920.57	3/4	2,560.27		
4		4		4		4	4,513.21	4	4,208.10	4	3,902.08	4	3,596.07	4	3,273.09	4	2,913.07	4	2,552.76		
1/4		1/4		1/4		1/4	4,506.87	1/4	4,201.72	1/4	3,895.71	1/4	3,589.69	1/4	3,265.58	1/4	2,905.57	1/4	2,545.25		
1/2		1/2		1/2		1/2	4,500.53	1/2	4,195.35	1/2	3,889.33	1/2	3,583.32	1/2	3,258.08	1/2	2,898.07	1/2	2,537.76		
3/4		3/4		3/4		3/4	4,494.19	3/4	4,188.97	3/4	3,882.96	3/4	3,576.94	3/4	3,250.57	3/4	2,890.57	3/4	2,530.26		
5		5		5		5	4,487.85	5	4,182.60	5	3,876.58	5	3,570.57	5	3,243.07	5	2,883.07	5	2,522.76		
1/4		1/4		1/4		1/4	4,481.51	1/4	4,176.22	1/4	3,870.21	1/4	3,564.19	1/4	3,235.56	1/4	2,875.57	1/4	2,515.26		
1/2		1/2		1/2		1/2	4,475.17	1/2	4,169.85	1/2	3,863.83	1/2	3,557.82	1/2	3,228.06	1/2	2,868.06	1/2	2,507.76		
3/4		3/4		3/4		3/4	4,468.83	3/4	4,163.47	3/4	3,857.46	3/4	3,551.44	3/4	3,220.56	3/4	2,860.56	3/4	2,500.27		
6		6		6		6	4,462.50	6	4,157.10	6	3,851.08	6	3,545.07	6	3,213.06	6	2,853.05	6	2,492.77		
1/4		1/4		1/4		1/4	4,456.16	1/4	4,150.72	1/4	3,844.71	1/4	3,538.69	1/4	3,205.56	1/4	2,845.54	1/4	2,485.27		
1/2		1/2		1/2		1/2	4,449.82	1/2	4,144.35	1/2	3,838.33	1/2	3,532.32	1/2	3,198.06	1/2	2,838.04	1/2	2,477.77		
3/4		3/4		3/4		3/4	4,443.48	3/4	4,137.97	3/4	3,831.96	3/4	3,525.94	3/4	3,190.57	3/4	2,830.53	3/4	2,470.27		
7		7		7		7	4,437.14	7	4,131.60	7	3,825.58	7	3,519.57	7	3,183.07	7	2,823.02	7	2,462.78		
1/4		1/4		1/4		1/4	4,430.80	1/4	4,125.22	1/4	3,819.21	1/4	3,513.19	1/4	3,175.57	1/4	2,815.51	1/4	2,455.28		
1/2		1/2		1/2		1/2	4,733.69	1/2	4,424.46	1/2	4,118.84	1/2	3,812.83	1/2	3,506.82	1/2	3,168.07	1/2	2,808.01	1/2	2,447.78
3/4		3/4		3/4		3/4	4,728.00	3/4	4,418.12	3/4	4,112.47	3/4	3,806.46	3/4	3,500.44	3/4	3,160.57	3/4	2,800.50	3/4	2,440.28
8		8		8		8	4,722.32	8	4,411.78	8	4,106.09	8	3,800.08	8	3,494.07	8	3,153.07	8	2,792.99	8	2,432.78
1/4		1/4		1/4		1/4	4,716.63	1/4	4,405.44	1/4	4,099.72	1/4	3,793.70	1/4	3,487.69	1/4	3,145.57	1/4	2,785.48	1/4	2,425.28
1/2		1/2		1/2		1/2	4,709.62	1/2	4,399.10	1/2	4,093.34	1/2	3,787.33	1/2	3,481.31	1/2	3,138.07	1/2	2,777.98	1/2	2,417.79
3/4		3/4		3/4		3/4	4,702.61	3/4	4,392.77	3/4	4,086.97	3/4	3,780.95	3/4	3,474.94	3/4	3,130.57	3/4	2,770.47	3/4	2,410.29
9		9		9		9	4,695.60	9	4,386.43	9	4,080.59	9	3,774.58	9	3,468.56	9	3,123.07	9	2,762.96	9	2,402.79
1/4		1/4		1/4		1/4	4,688.59	1/4	4,380.09	1/4	4,074.22	1/4	3,768.20	1/4	3,462.19	1/4	3,115.57	1/4	2,755.46	1/4	2,395.29
1/2		1/2		1/2		1/2	4,681.19	1/2	4,373.75	1/2	4,067.84	1/2	3,761.83	1/2	3,455.81	1/2	3,108.07	1/2	2,747.95	1/2	2,387.79
3/4		3/4		3/4		3/4	4,673.80	3/4	4,367.41	3/4	4,061.47	3/4	3,755.45	3/4	3,449.44	3/4	3,100.57	3/4	2,740.44	3/4	2,380.30
10		10		10		10	4,666.40	10	4,361.07	10	4,055.09	10	3,749.08	10	3,443.06	10	3,093.07	10	2,732.93	10	2,372.80
1/4		1/4		1/4		1/4	4,659.01	1/4	4,354.73	1/4	4,048.72	1/4	3,742.70	1/4	3,436.69	1/4	3,085.57	1/4	2,725.43	1/4	2,365.30
1/2		1/2		1/2		1/2	4,652.67	1/2	4,348.36	1/2	4,042.34	1/2	3,736.33	1/2	3,430.31	1/2	3,078.07	1/2	2,717.92	1/2	2,357.80
3/4		3/4		3/4		3/4	4,646.33	3/4	4,341.98	3/4	4,035.97	3/4	3,729.95	3/4	3,423.94	3/4	3,070.57	3/4	2,710.41	3/4	2,350.30
11		11		11		11	4,639.99	11	4,335.60	11	4,029.59	11	3,723.58	11	3,417.56	11	3,063.07	11	2,702.91	11	2,342.81
1/4		1/4		1/4		1/4	4,633.65	1/4	4,329.23	1/4	4,023.22	1/4	3,717.20	1/4	3,411.19	1/4	3,055.57	1/4	2,695.40	1/4	2,335.31
1/2		1/2		1/2		1/2	4,627.31	1/2	4,322.85	1/2	4,016.84	1/2	3,710.83	1/2	3,404.81	1/2	3,048.07	1/2	2,687.89	1/2	2,327.81
3/4		3/4		3/4		3/4	4,620.97	3/4	4,316.48	3/4	4,010.46	3/4	3,704.45	3/4	3,398.44	3/4	3,040.57	3/4	2,680.38	3/4	2,320.31

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 382"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,312.81	0	1,953.71	0	1,595.74	0	1,235.48	0	875.22	0	524.86	0	165.61	0		0		0	
1/4	2,305.32	1/4	1,946.28	1/4	1,588.24	1/4	1,227.98	1/4	867.72	1/4	517.59	1/4	158.10	1/4	1/4		1/4	1/4	
1/2	2,297.81	1/2	1,938.85	1/2	1,580.73	1/2	1,220.47	1/2	860.21	1/2	510.30	1/2	150.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,290.30	3/4	1,931.42	3/4	1,573.23	3/4	1,212.97	3/4	852.71	3/4	503.02	3/4	143.09	3/4	3/4	3/4	3/4	3/4	3/4
1	2,282.79	1	1,923.99	1	1,565.72	1	1,205.46	1	845.20	1	495.74	1	135.58	1	1	1	1	1	1
1/4	2,275.28	1/4	1,916.56	1/4	1,558.22	1/4	1,197.96	1/4	837.70	1/4	488.45	1/4	128.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,267.77	1/2	1,909.12	1/2	1,550.71	1/2	1,190.45	1/2	830.41	1/2	480.95	1/2	120.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,260.26	3/4	1,901.69	3/4	1,543.21	3/4	1,182.95	3/4	823.13	3/4	473.44	3/4	113.05	3/4	3/4	3/4	3/4	3/4	3/4
2	2,252.75	2	1,894.26	2	1,535.70	2	1,175.44	2	815.85	2	465.93	2	105.55	2	2	2	2	2	2
1/4	2,245.25	1/4	1,886.83	1/4	1,528.19	1/4	1,167.94	1/4	808.56	1/4	458.42	1/4	98.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,237.74	1/2	1,879.40	1/2	1,520.69	1/2	1,160.43	1/2	801.28	1/2	450.91	1/2	90.53	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,230.23	3/4	1,871.97	3/4	1,513.18	3/4	1,152.92	3/4	794.00	3/4	443.41	3/4	83.02	3/4	3/4	3/4	3/4	3/4	3/4
3	2,222.72	3	1,864.53	3	1,505.68	3	1,145.42	3	786.71	3	435.90	3	75.51	3	3	3	3	3	3
1/4	2,215.21	1/4	1,857.10	1/4	1,498.17	1/4	1,137.91	1/4	779.43	1/4	428.39	1/4	68.01	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,207.70	1/2	1,849.67	1/2	1,490.67	1/2	1,130.41	1/2	772.15	1/2	420.88	1/2	60.77	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,200.19	3/4	1,842.24	3/4	1,483.16	3/4	1,122.90	3/4	764.86	3/4	413.37	3/4	53.53	3/4	3/4	3/4	3/4	3/4	3/4
4	2,192.68	4	1,834.81	4	1,475.66	4	1,115.40	4	757.58	4	405.87	4	46.29	4	4	4	4	4	4
1/4	2,185.18	1/4	1,827.38	1/4	1,468.15	1/4	1,107.89	1/4	750.29	1/4	398.36	1/4	39.05	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,177.67	1/2	1,819.94	1/2	1,460.65	1/2	1,100.39	1/2	743.02	1/2	390.85	1/2	33.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,170.16	3/4	1,812.51	3/4	1,453.14	3/4	1,092.88	3/4	735.75	3/4	383.34	3/4	28.31	3/4	3/4	3/4	3/4	3/4	3/4
5	2,162.65	5	1,805.08	5	1,445.64	5	1,085.38	5	728.47	5	375.83	5	22.94	5	5	5	5	5	5
1/4	2,155.14	1/4	1,797.65	1/4	1,438.13	1/4	1,077.87	1/4	721.20	1/4	368.33	1/4	17.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,147.63	1/2	1,790.22	1/2	1,430.62	1/2	1,070.37	1/2	713.93	1/2	360.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,140.12	3/4	1,782.79	3/4	1,423.12	3/4	1,062.86	3/4	706.66	3/4	353.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,132.62	6	1,775.35	6	1,415.61	6	1,055.35	6	699.38	6	345.80	6		6	6	6	6	6	6
1/4	2,125.11	1/4	1,767.92	1/4	1,408.11	1/4	1,047.85	1/4	692.11	1/4	338.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,117.60	1/2	1,760.49	1/2	1,400.60	1/2	1,040.34	1/2	684.84	1/2	330.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,110.09	3/4	1,753.06	3/4	1,393.10	3/4	1,032.84	3/4	677.56	3/4	323.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,102.58	7	1,745.63	7	1,385.59	7	1,025.33	7	670.29	7	315.77	7		7	7	7	7	7	7
1/4	2,095.07	1/4	1,738.19	1/4	1,378.09	1/4	1,017.83	1/4	663.02	1/4	308.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,087.60	1/2	1,730.73	1/2	1,370.58	1/2	1,010.32	1/2	655.75	1/2	300.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,080.13	3/4	1,723.26	3/4	1,363.08	3/4	1,002.82	3/4	648.48	3/4	293.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,072.66	8	1,715.79	8	1,355.57	8	995.31	8	641.21	8	285.74	8		8	8	8	8	8	8
1/4	2,065.19	1/4	1,708.32	1/4	1,348.06	1/4	987.81	1/4	633.94	1/4	278.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,057.76	1/2	1,700.82	1/2	1,340.56	1/2	980.30	1/2	626.67	1/2	270.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,050.33	3/4	1,693.31	3/4	1,333.05	3/4	972.79	3/4	619.40	3/4	263.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,042.89	9	1,685.81	9	1,325.55	9	965.29	9	612.13	9	255.71	9		9	9	9	9	9	9
1/4	2,035.46	1/4	1,678.30	1/4	1,318.04	1/4	957.78	1/4	604.87	1/4	248.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,028.03	1/2	1,670.80	1/2	1,310.54	1/2	950.28	1/2	597.59	1/2	240.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,020.60	3/4	1,663.29	3/4	1,303.03	3/4	942.77	3/4	590.32	3/4	233.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,013.17	10	1,655.79	10	1,295.53	10	935.27	10	583.05	10	225.67	10		10	10	10	10	10	10
1/4	2,005.74	1/4	1,648.28	1/4	1,288.02	1/4	927.76	1/4	575.77	1/4	218.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.30	1/2	1,640.78	1/2	1,280.52	1/2	920.26	1/2	568.50	1/2	210.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.87	3/4	1,633.27	3/4	1,273.01	3/4	912.75	3/4	561.23	3/4	203.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,983.44	11	1,625.76	11	1,265.51	11	905.25	11	553.95	11	195.64	11		11	11	11	11	11	11
1/4	1,976.01	1/4	1,618.26	1/4	1,258.00	1/4	897.74	1/4	546.68	1/4	188.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.58	1/2	1,610.75	1/2	1,250.49	1/2	890.24	1/2	539.41	1/2	180.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.15	3/4	1,603.25	3/4	1,242.99	3/4	882.73	3/4	532.13	3/4	173.12	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/15/2013 CL - SW  
CALCULATED: 02/15/2013 CL  
PRINTED: 02/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
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