



# BARGE "HBC 304"

## 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	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8	- 00-2/8	00-2/8
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-6/8	- 01-6/8	02-2/8	- 02-2/8	02-7/8	- 02-7/8	03-3/8	- 03-3/8
3 STBD	00-4/8	- 00-4/8	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-2/8	- 02-2/8	02-6/8	- 02-6/8	03-3/8	- 03-3/8

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

April 25, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 304"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

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	5,244.24	0	4,931.80	0	4,585.33	0	4,224.03	0	3,861.37	0	3,498.71	0	3,136.04	0	2,773.38	0	2,410.64		
1/4		1/4	5,239.91	1/4	4,924.77	1/4	4,577.91	1/4	4,216.48	1/4	3,853.81	1/4	3,491.15	1/4	3,128.49	1/4	2,765.82	1/4	2,403.08		
1/2		1/2	5,235.57	1/2	4,917.73	1/2	4,570.49	1/2	4,208.92	1/2	3,846.26	1/2	3,483.59	1/2	3,120.93	1/2	2,758.27	1/2	2,395.52		
3/4		3/4	5,231.24	3/4	4,910.70	3/4	4,563.07	3/4	4,201.37	3/4	3,838.70	3/4	3,476.04	3/4	3,113.38	3/4	2,750.71	3/4	2,387.96		
1		1	5,225.67	1	4,903.63	1	4,555.62	1	4,193.81	1	3,831.15	1	3,468.48	1	3,105.82	1	2,743.16	1	2,380.40		
1/4		1/4	5,220.10	1/4	4,896.57	1/4	4,548.17	1/4	4,186.26	1/4	3,823.59	1/4	3,460.93	1/4	3,098.26	1/4	2,735.60	1/4	2,372.84		
1/2		1/2	5,214.54	1/2	4,889.51	1/2	4,540.72	1/2	4,178.70	1/2	3,816.04	1/2	3,453.37	1/2	3,090.71	1/2	2,728.04	1/2	2,365.29		
3/4		3/4	5,208.97	3/4	4,882.44	3/4	4,533.27	3/4	4,171.15	3/4	3,808.48	3/4	3,445.82	3/4	3,083.15	3/4	2,720.49	3/4	2,357.73		
2		2	5,202.93	2	4,875.35	2	4,525.79	2	4,163.59	2	3,800.93	2	3,438.26	2	3,075.60	2	2,712.93	2	2,350.17		
1/4		1/4	5,196.90	1/4	4,868.26	1/4	4,518.30	1/4	4,156.03	1/4	3,793.37	1/4	3,430.71	1/4	3,068.04	1/4	2,705.38	1/4	2,342.61		
1/2		1/2	5,190.87	1/2	4,861.16	1/2	4,510.82	1/2	4,148.48	1/2	3,785.81	1/2	3,423.15	1/2	3,060.49	1/2	2,697.82	1/2	2,335.05		
3/4		3/4	5,184.83	3/4	4,854.07	3/4	4,503.34	3/4	4,140.92	3/4	3,778.26	3/4	3,415.60	3/4	3,052.93	3/4	2,690.27	3/4	2,327.50		
3		3	5,178.17	3	4,846.95	3	4,495.83	3	4,133.37	3	3,770.70	3	3,408.04	3	3,045.38	3	2,682.71	3	2,319.94		
1/4		1/4	5,171.51	1/4	4,839.82	1/4	4,488.32	1/4	4,125.81	1/4	3,763.15	1/4	3,400.48	1/4	3,037.82	1/4	2,675.16	1/4	2,312.38		
1/2		1/2	5,164.85	1/2	4,832.70	1/2	4,480.81	1/2	4,118.26	1/2	3,755.59	1/2	3,392.93	1/2	3,030.26	1/2	2,667.60	1/2	2,304.82		
3/4		3/4	5,158.19	3/4	4,825.58	3/4	4,473.30	3/4	4,110.70	3/4	3,748.04	3/4	3,385.37	3/4	3,022.71	3/4	2,660.05	3/4	2,297.26		
4		4	5,151.48	4	4,818.43	4	4,465.76	4	4,103.15	4	3,740.48	4	3,377.82	4	3,015.15	4	2,652.49	4	2,289.70		
1/4		1/4	5,144.76	1/4	4,811.27	1/4	4,458.22	1/4	4,095.59	1/4	3,732.93	1/4	3,370.26	1/4	3,007.60	1/4	2,644.93	1/4	2,282.15		
1/2		1/2	5,138.05	1/2	4,804.12	1/2	4,450.68	1/2	4,088.03	1/2	3,725.37	1/2	3,362.71	1/2	3,000.04	1/2	2,637.38	1/2	2,274.59		
3/4		3/4	5,131.33	3/4	4,796.97	3/4	4,443.14	3/4	4,080.48	3/4	3,717.82	3/4	3,355.15	3/4	2,992.49	3/4	2,629.82	3/4	2,267.03		
5		5	5,124.58	5	4,789.78	5	4,435.59	5	4,072.92	5	3,710.26	5	3,347.60	5	2,984.93	5	2,622.26	5	2,259.47		
1/4		1/4	5,117.83	1/4	4,782.60	1/4	4,428.03	1/4	4,065.37	1/4	3,702.70	1/4	3,340.04	1/4	2,977.38	1/4	2,614.71	1/4	2,251.91		
1/2		1/2	5,111.07	1/2	4,775.42	1/2	4,420.48	1/2	4,057.81	1/2	3,695.15	1/2	3,332.48	1/2	2,969.82	1/2	2,607.15	1/2	2,244.35		
3/4		3/4	5,104.32	3/4	4,768.23	3/4	4,412.92	3/4	4,050.26	3/4	3,687.59	3/4	3,324.93	3/4	2,962.27	3/4	2,599.59	3/4	2,236.80		
6		6	5,097.53	6	4,761.02	6	4,405.37	6	4,042.70	6	3,680.04	6	3,317.37	6	2,954.71	6	2,592.03	6	2,229.24		
1/4		1/4	5,090.75	1/4	4,753.81	1/4	4,397.81	1/4	4,035.15	1/4	3,672.48	1/4	3,309.82	1/4	2,947.15	1/4	2,584.47	1/4	2,221.68		
1/2		1/2	5,083.96	1/2	4,746.60	1/2	4,390.25	1/2	4,027.59	1/2	3,664.93	1/2	3,302.26	1/2	2,939.60	1/2	2,576.92	1/2	2,214.12		
3/4		3/4	5,077.18	3/4	4,739.38	3/4	4,382.70	3/4	4,020.04	3/4	3,657.37	3/4	3,294.71	3/4	2,932.04	3/4	2,569.36	3/4	2,206.56		
7		7	5,070.36	7	4,732.11	7	4,375.14	7	4,012.48	7	3,649.82	7	3,287.15	7	2,924.49	7	2,561.80	7	2,199.01		
1/4		1/4	5,063.55	1/4	4,724.84	1/4	4,367.59	1/4	4,004.92	1/4	3,642.26	1/4	3,279.60	1/4	2,916.93	1/4	2,554.24	1/4	2,191.45		
1/2		1/2	5,056.73	1/2	4,717.57	1/2	4,360.03	1/2	3,997.37	1/2	3,634.70	1/2	3,272.04	1/2	2,909.38	1/2	2,546.68	1/2	2,183.89		
3/4		3/4	5,049.92	3/4	4,710.30	3/4	4,352.48	3/4	3,989.81	3/4	3,627.15	3/4	3,264.49	3/4	2,901.82	3/4	2,539.12	3/4	2,176.33		
8		8	5,043.07	8	4,702.99	8	4,344.92	8	3,982.26	8	3,619.59	8	3,256.93	8	2,894.27	8	2,531.57	8	2,168.77		
1/4		1/4	5,036.23	1/4	4,695.69	1/4	4,337.37	1/4	3,974.70	1/4	3,612.04	1/4	3,249.37	1/4	2,886.71	1/4	2,524.01	1/4	2,161.21		
1/2		1/2	5,029.38	1/2	4,688.39	1/2	4,329.81	1/2	3,967.15	1/2	3,604.48	1/2	3,241.82	1/2	2,879.15	1/2	2,516.45	1/2	2,153.66		
3/4		3/4	5,022.54	3/4	4,681.09	3/4	4,322.26	3/4	3,959.59	3/4	3,596.93	3/4	3,234.26	3/4	2,871.60	3/4	2,508.89	3/4	2,146.10		
9		9	5,015.59	9	4,673.76	9	4,314.70	9	3,952.04	9	3,589.37	9	3,226.71	9	2,864.04	9	2,501.33	9	2,138.54		
1/4		1/4	5,008.65	1/4	4,666.43	1/4	4,307.14	1/4	3,944.48	1/4	3,581.82	1/4	3,219.15	1/4	2,856.49	1/4	2,493.78	1/4	2,130.98		
1/2		1/2	5,001.70	1/2	4,659.10	1/2	4,299.59	1/2	3,936.92	1/2	3,574.26	1/2	3,211.60	1/2	2,848.93	1/2	2,486.22	1/2	2,123.42		
3/4		3/4	4,994.75	3/4	4,651.76	3/4	4,292.03	3/4	3,929.37	3/4	3,566.71	3/4	3,204.04	3/4	2,841.38	3/4	2,478.66	3/4	2,115.87		
10		10	4,987.78	10	4,644.40	10	4,284.48	10	3,921.81	10	3,559.15	10	3,196.49	10	2,833.82	10	2,471.10	10	2,108.31		
1/4		1/4	4,980.80	1/4	4,637.04	1/4	4,276.92	1/4	3,914.26	1/4	3,551.59	1/4	3,188.93	1/4	2,826.27	1/4	2,463.54	1/4	2,100.75		
1/2		1/2	4,973.82	1/2	4,629.68	1/2	4,269.37	1/2	3,906.70	1/2	3,544.04	1/2	3,181.37	1/2	2,818.71	1/2	2,455.98	1/2	2,093.19		
3/4		3/4	4,966.85	3/4	4,622.32	3/4	4,261.81	3/4	3,899.15	3/4	3,536.48	3/4	3,173.82	3/4	2,811.16	3/4	2,448.43	3/4	2,085.63		
11		11	4,959.84	11	4,614.93	11	4,254.26	11	3,891.59	11	3,528.93	11	3,166.26	11	2,803.60	11	2,440.87	11	2,078.07		
1/4		1/4	4,952.84	1/4	4,607.54	1/4	4,246.70	1/4	3,884.04	1/4	3,521.37	1/4	3,158.71	1/4	2,796.04	1/4	2,433.31	1/4	2,070.52		
1/2		1/2	4,945.84	1/2	4,600.15	1/2	4,239.14	1/2	3,876.48	1/2	3,513.82	1/2	3,151.15	1/2	2,788.49	1/2	2,425.75	1/2	2,062.96		
3/4		3/4	5,248.58	3/4	4,938.83	3/4	4,592.75	3/4	4,231.59	3/4	3,868.93	3/4	3,506.26	3/4	3,143.60	3/4	2,780.93	3/4	2,418.19	3/4	2,055.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 304"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,047.84	0	1,685.05	0	1,322.25	0	959.91	0	597.17	0	234.39	0		0		0		0	
1/4	2,040.28	1/4	1,677.49	1/4	1,314.70	1/4	952.37	1/4	589.61	1/4	226.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,032.73	1/2	1,669.93	1/2	1,307.14	1/2	944.82	1/2	582.05	1/2	219.27	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,025.17	3/4	1,662.37	3/4	1,299.58	3/4	937.27	3/4	574.50	3/4	211.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,017.61	1	1,654.82	1	1,292.02	1	929.72	1	566.94	1	204.16	1	1	1	1	1	1	1	1
1/4	2,010.05	1/4	1,647.26	1/4	1,284.46	1/4	922.16	1/4	559.38	1/4	196.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,002.49	1/2	1,639.70	1/2	1,276.91	1/2	914.60	1/2	551.82	1/2	189.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,994.93	3/4	1,632.14	3/4	1,269.35	3/4	907.04	3/4	544.26	3/4	181.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,987.38	2	1,624.58	2	1,261.79	2	899.48	2	536.71	2	173.93	2	2	2	2	2	2	2	2
1/4	1,979.82	1/4	1,617.02	1/4	1,254.23	1/4	891.93	1/4	529.15	1/4	166.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,972.26	1/2	1,609.47	1/2	1,246.67	1/2	884.37	1/2	521.59	1/2	158.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.70	3/4	1,601.91	3/4	1,239.11	3/4	876.81	3/4	514.03	3/4	151.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,957.14	3	1,594.35	3	1,231.57	3	869.25	3	506.47	3	143.71	3	3	3	3	3	3	3	3
1/4	1,949.59	1/4	1,586.79	1/4	1,224.02	1/4	861.70	1/4	498.92	1/4	136.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,942.03	1/2	1,579.23	1/2	1,216.48	1/2	854.14	1/2	491.36	1/2	128.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.47	3/4	1,571.68	3/4	1,208.93	3/4	846.58	3/4	483.80	3/4	121.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,926.91	4	1,564.12	4	1,201.38	4	839.02	4	476.24	4	113.54	4	4	4	4	4	4	4	4
1/4	1,919.35	1/4	1,556.56	1/4	1,193.84	1/4	831.46	1/4	468.68	1/4	106.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,911.79	1/2	1,549.00	1/2	1,186.29	1/2	823.91	1/2	461.13	1/2	98.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,904.24	3/4	1,541.44	3/4	1,178.75	3/4	816.35	3/4	453.57	3/4	90.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,896.68	5	1,533.88	5	1,171.20	5	808.79	5	446.01	5	84.05	5	5	5	5	5	5	5	5
1/4	1,889.12	1/4	1,526.33	1/4	1,163.65	1/4	801.23	1/4	438.45	1/4	77.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.56	1/2	1,518.77	1/2	1,156.11	1/2	793.67	1/2	430.89	1/2	70.20	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,874.00	3/4	1,511.21	3/4	1,148.56	3/4	786.12	3/4	423.34	3/4	63.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,866.44	6	1,503.65	6	1,141.02	6	778.56	6	415.78	6	57.61	6	6	6	6	6	6	6	6
1/4	1,858.89	1/4	1,496.09	1/4	1,133.47	1/4	771.00	1/4	408.22	1/4	51.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,851.33	1/2	1,488.53	1/2	1,125.92	1/2	763.44	1/2	400.66	1/2	46.27	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.77	3/4	1,480.98	3/4	1,118.38	3/4	755.88	3/4	393.11	3/4	40.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,836.21	7	1,473.42	7	1,110.83	7	748.33	7	385.55	7	36.20	7	7	7	7	7	7	7	7
1/4	1,828.65	1/4	1,465.86	1/4	1,103.29	1/4	740.77	1/4	377.99	1/4	31.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,821.10	1/2	1,458.30	1/2	1,095.74	1/2	733.21	1/2	370.43	1/2	27.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,813.54	3/4	1,450.74	3/4	1,088.19	3/4	725.65	3/4	362.87	3/4	22.97	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,805.98	8	1,443.19	8	1,080.65	8	718.10	8	355.32	8	18.56	8	8	8	8	8	8	8	8
1/4	1,798.42	1/4	1,435.63	1/4	1,073.10	1/4	710.54	1/4	347.76	1/4	14.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,790.86	1/2	1,428.07	1/2	1,065.56	1/2	702.98	1/2	340.20	1/2	9.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.30	3/4	1,420.51	3/4	1,058.01	3/4	695.42	3/4	332.64	3/4	5.33	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,775.75	9	1,412.95	9	1,050.46	9	687.86	9	325.08	9	0.92	9	9	9	9	9	9	9	9
1/4	1,768.19	1/4	1,405.39	1/4	1,042.92	1/4	680.31	1/4	317.53	1/4	0.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,760.63	1/2	1,397.84	1/2	1,035.37	1/2	672.75	1/2	309.97	1/2	0.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.07	3/4	1,390.28	3/4	1,027.83	3/4	665.19	3/4	302.41	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,745.51	10	1,382.72	10	1,020.28	10	657.63	10	294.85	10	0.00	10	10	10	10	10	10	10	10
1/4	1,737.96	1/4	1,375.16	1/4	1,012.73	1/4	650.07	1/4	287.29	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,730.40	1/2	1,367.60	1/2	1,005.19	1/2	642.52	1/2	279.74	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,722.84	3/4	1,360.05	3/4	997.64	3/4	634.96	3/4	272.18	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,715.28	11	1,352.49	11	990.10	11	627.40	11	264.62	11	0.00	11	11	11	11	11	11	11	11
1/4	1,707.72	1/4	1,344.93	1/4	982.55	1/4	619.84	1/4	257.06	1/4	0.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.16	1/2	1,337.37	1/2	975.00	1/2	612.28	1/2	249.51	1/2	0.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,692.61	3/4	1,329.81	3/4	967.46	3/4	604.73	3/4	241.95	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HBC 304"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	4,949.15	0	4,603.98	0	4,243.26	0	3,880.73	0	3,518.20	0	3,155.67	0	2,793.14	0	2,430.54
1/4		1/4		1/4	4,942.15	1/4	4,596.59	1/4	4,235.71	1/4	3,873.18	1/4	3,510.65	1/4	3,148.12	1/4	2,785.59	1/4	2,422.98
1/2		1/2	5,244.77	1/2	4,935.15	1/2	4,589.20	1/2	4,228.16	1/2	3,865.63	1/2	3,503.10	1/2	3,140.57	1/2	2,778.04	1/2	2,415.43
3/4		3/4	5,240.44	3/4	4,928.12	3/4	4,581.78	3/4	4,220.60	3/4	3,858.07	3/4	3,495.54	3/4	3,133.01	3/4	2,770.48	3/4	2,407.87
1		1	5,236.11	1	4,921.09	1	4,574.37	1	4,213.05	1	3,850.52	1	3,487.99	1	3,125.46	1	2,762.93	1	2,400.32
1/4		1/4	5,231.77	1/4	4,914.06	1/4	4,566.95	1/4	4,205.50	1/4	3,842.97	1/4	3,480.44	1/4	3,117.91	1/4	2,755.38	1/4	2,392.76
1/2		1/2	5,227.44	1/2	4,907.03	1/2	4,559.53	1/2	4,197.95	1/2	3,835.42	1/2	3,472.89	1/2	3,110.36	1/2	2,747.83	1/2	2,385.21
3/4		3/4	5,221.87	3/4	4,899.97	3/4	4,552.08	3/4	4,190.39	3/4	3,827.86	3/4	3,465.33	3/4	3,102.80	3/4	2,740.27	3/4	2,377.65
2		2	5,216.31	2	4,892.91	2	4,544.63	2	4,182.84	2	3,820.31	2	3,457.78	2	3,095.25	2	2,732.72	2	2,370.10
1/4		1/4	5,210.74	1/4	4,885.85	1/4	4,537.19	1/4	4,175.29	1/4	3,812.76	1/4	3,450.23	1/4	3,087.70	1/4	2,725.17	1/4	2,362.54
1/2		1/2	5,205.18	1/2	4,878.78	1/2	4,529.74	1/2	4,167.73	1/2	3,805.20	1/2	3,442.68	1/2	3,080.15	1/2	2,717.62	1/2	2,354.99
3/4		3/4	5,199.15	3/4	4,871.69	3/4	4,522.26	3/4	4,160.18	3/4	3,797.65	3/4	3,435.12	3/4	3,072.59	3/4	2,710.06	3/4	2,347.43
3		3	5,193.12	3	4,864.60	3	4,514.78	3	4,152.63	3	3,790.10	3	3,427.57	3	3,065.04	3	2,702.51	3	2,339.87
1/4		1/4	5,187.08	1/4	4,857.51	1/4	4,507.30	1/4	4,145.08	1/4	3,782.55	1/4	3,420.02	1/4	3,057.49	1/4	2,694.96	1/4	2,332.32
1/2		1/2	5,181.05	1/2	4,850.42	1/2	4,499.82	1/2	4,137.52	1/2	3,774.99	1/2	3,412.46	1/2	3,049.93	1/2	2,687.41	1/2	2,324.76
3/4		3/4	5,174.40	3/4	4,843.30	3/4	4,492.32	3/4	4,129.97	3/4	3,767.44	3/4	3,404.91	3/4	3,042.38	3/4	2,679.85	3/4	2,317.21
4		4	5,167.74	4	4,836.18	4	4,484.81	4	4,122.42	4	3,759.89	4	3,397.36	4	3,034.83	4	2,672.30	4	2,309.65
1/4		1/4	5,161.08	1/4	4,829.06	1/4	4,477.30	1/4	4,114.87	1/4	3,752.34	1/4	3,389.81	1/4	3,027.28	1/4	2,664.75	1/4	2,302.10
1/2		1/2	5,154.43	1/2	4,821.94	1/2	4,469.79	1/2	4,107.31	1/2	3,744.78	1/2	3,382.25	1/2	3,019.72	1/2	2,657.19	1/2	2,294.54
3/4		3/4	5,147.71	3/4	4,814.79	3/4	4,462.25	3/4	4,099.76	3/4	3,737.23	3/4	3,374.70	3/4	3,012.17	3/4	2,649.64	3/4	2,286.99
5		5	5,141.00	5	4,807.64	5	4,454.71	5	4,092.21	5	3,729.68	5	3,367.15	5	3,004.62	5	2,642.09	5	2,279.43
1/4		1/4	5,134.29	1/4	4,800.49	1/4	4,447.17	1/4	4,084.65	1/4	3,722.12	1/4	3,359.60	1/4	2,997.07	1/4	2,634.54	1/4	2,271.87
1/2		1/2	5,127.58	1/2	4,793.34	1/2	4,439.63	1/2	4,077.10	1/2	3,714.57	1/2	3,352.04	1/2	2,989.51	1/2	2,626.98	1/2	2,264.32
3/4		3/4	5,120.83	3/4	4,786.16	3/4	4,432.08	3/4	4,069.55	3/4	3,707.02	3/4	3,344.49	3/4	2,981.96	3/4	2,619.43	3/4	2,256.76
6		6	5,114.07	6	4,778.98	6	4,424.53	6	4,062.00	6	3,699.47	6	3,336.94	6	2,974.41	6	2,611.87	6	2,249.21
1/4		1/4	5,107.32	1/4	4,771.80	1/4	4,416.97	1/4	4,054.44	1/4	3,691.91	1/4	3,329.38	1/4	2,966.85	1/4	2,604.32	1/4	2,241.65
1/2		1/2	5,100.57	1/2	4,764.62	1/2	4,409.42	1/2	4,046.89	1/2	3,684.36	1/2	3,321.83	1/2	2,959.30	1/2	2,596.76	1/2	2,234.10
3/4		3/4	5,093.79	3/4	4,757.41	3/4	4,401.87	3/4	4,039.34	3/4	3,676.81	3/4	3,314.28	3/4	2,951.75	3/4	2,589.21	3/4	2,226.54
7		7	5,087.01	7	4,750.20	7	4,394.32	7	4,031.79	7	3,669.26	7	3,306.73	7	2,944.20	7	2,581.65	7	2,218.99
1/4		1/4	5,080.22	1/4	4,742.99	1/4	4,386.76	1/4	4,024.23	1/4	3,661.70	1/4	3,299.17	1/4	2,936.64	1/4	2,574.09	1/4	2,211.43
1/2		1/2	5,073.44	1/2	4,735.78	1/2	4,379.21	1/2	4,016.68	1/2	3,654.15	1/2	3,291.62	1/2	2,929.09	1/2	2,566.54	1/2	2,203.88
3/4		3/4	5,066.63	3/4	4,728.51	3/4	4,371.66	3/4	4,009.13	3/4	3,646.60	3/4	3,284.07	3/4	2,921.54	3/4	2,558.98	3/4	2,196.32
8		8	5,059.82	8	4,721.24	8	4,364.10	8	4,001.57	8	3,639.05	8	3,276.52	8	2,913.99	8	2,551.43	8	2,188.76
1/4		1/4	5,053.00	1/4	4,713.97	1/4	4,356.55	1/4	3,994.02	1/4	3,631.49	1/4	3,268.96	1/4	2,906.43	1/4	2,543.87	1/4	2,181.21
1/2		1/2	5,046.19	1/2	4,706.70	1/2	4,349.00	1/2	3,986.47	1/2	3,623.94	1/2	3,261.41	1/2	2,898.88	1/2	2,536.32	1/2	2,173.65
3/4		3/4	5,039.35	3/4	4,699.40	3/4	4,341.45	3/4	3,978.92	3/4	3,616.39	3/4	3,253.86	3/4	2,891.33	3/4	2,528.76	3/4	2,166.10
9		9	5,032.51	9	4,692.10	9	4,333.89	9	3,971.36	9	3,608.83	9	3,246.30	9	2,883.78	9	2,521.21	9	2,158.54
1/4		1/4	5,025.67	1/4	4,684.81	1/4	4,326.34	1/4	3,963.81	1/4	3,601.28	1/4	3,238.75	1/4	2,876.22	1/4	2,513.65	1/4	2,150.99
1/2		1/2	5,018.82	1/2	4,677.51	1/2	4,318.79	1/2	3,956.26	1/2	3,593.73	1/2	3,231.20	1/2	2,868.67	1/2	2,506.10	1/2	2,143.43
3/4		3/4	5,011.88	3/4	4,670.18	3/4	4,311.24	3/4	3,948.71	3/4	3,586.18	3/4	3,223.65	3/4	2,861.12	3/4	2,498.54	3/4	2,135.88
10		10	5,004.94	10	4,662.85	10	4,303.68	10	3,941.15	10	3,578.62	10	3,216.09	10	2,853.56	10	2,490.98	10	2,128.32
1/4		1/4	4,997.99	1/4	4,655.52	1/4	4,296.13	1/4	3,933.60	1/4	3,571.07	1/4	3,208.54	1/4	2,846.01	1/4	2,483.43	1/4	2,120.76
1/2		1/2	4,991.05	1/2	4,648.19	1/2	4,288.58	1/2	3,926.05	1/2	3,563.52	1/2	3,200.99	1/2	2,838.46	1/2	2,475.87	1/2	2,113.21
3/4		3/4	4,984.08	3/4	4,640.83	3/4	4,281.02	3/4	3,918.50	3/4	3,555.97	3/4	3,193.44	3/4	2,830.91	3/4	2,468.32	3/4	2,105.65
11		11	4,977.10	11	4,633.47	11	4,273.47	11	3,910.94	11	3,548.41	11	3,185.88	11	2,823.35	11	2,460.76	11	2,098.10
1/4		1/4	4,970.13	1/4	4,626.12	1/4	4,265.92	1/4	3,903.39	1/4	3,540.86	1/4	3,178.33	1/4	2,815.80	1/4	2,453.21	1/4	2,090.54
1/2		1/2	4,963.16	1/2	4,618.76	1/2	4,258.37	1/2	3,895.84	1/2	3,533.31	1/2	3,170.78	1/2	2,808.25	1/2	2,445.65	1/2	2,082.99
3/4		3/4	4,956.15	3/4	4,611.37	3/4	4,250.81	3/4	3,888.28	3/4	3,525.75	3/4	3,163.23	3/4	2,800.70	3/4	2,438.10	3/4	2,075.43

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" 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 "HBC 304"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	2,067.88	0	1,705.21	0	1,342.55	0	981.80	0	619.62	0	256.97	0		0		0		0	
1/4	2,060.32	1/4	1,697.66	1/4	1,334.99	1/4	974.30	1/4	612.07	1/4	249.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,052.77	1/2	1,690.10	1/2	1,327.44	1/2	966.80	1/2	604.51	1/2	241.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,045.21	3/4	1,682.55	3/4	1,319.88	3/4	959.29	3/4	596.96	3/4	234.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,037.65	1	1,674.99	1	1,312.33	1	951.79	1	589.40	1	226.75	1	1	1	1	1	1	1	1
1/4	2,030.10	1/4	1,667.43	1/4	1,304.77	1/4	944.29	1/4	581.84	1/4	219.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,022.54	1/2	1,659.88	1/2	1,297.22	1/2	936.78	1/2	574.29	1/2	211.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,014.99	3/4	1,652.32	3/4	1,289.66	3/4	929.27	3/4	566.73	3/4	204.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,007.43	2	1,644.77	2	1,282.10	2	921.75	2	559.18	2	196.53	2	2	2	2	2	2	2	2
1/4	1,999.88	1/4	1,637.21	1/4	1,274.55	1/4	914.23	1/4	551.62	1/4	188.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,992.32	1/2	1,629.66	1/2	1,266.99	1/2	906.72	1/2	544.07	1/2	181.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,984.77	3/4	1,622.10	3/4	1,259.48	3/4	899.16	3/4	536.51	3/4	173.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,977.21	3	1,614.55	3	1,251.96	3	891.61	3	528.96	3	166.31	3	3	3	3	3	3	3	3
1/4	1,969.65	1/4	1,606.99	1/4	1,244.45	1/4	884.05	1/4	521.40	1/4	158.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,962.10	1/2	1,599.44	1/2	1,236.93	1/2	876.50	1/2	513.85	1/2	151.20	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,954.54	3/4	1,591.88	3/4	1,229.43	3/4	868.94	3/4	506.29	3/4	143.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,946.99	4	1,584.32	4	1,221.92	4	861.39	4	498.74	4	136.11	4	4	4	4	4	4	4	4
1/4	1,939.43	1/4	1,576.77	1/4	1,214.42	1/4	853.83	1/4	491.18	1/4	128.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,931.88	1/2	1,569.21	1/2	1,206.92	1/2	846.28	1/2	483.63	1/2	121.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,924.32	3/4	1,561.66	3/4	1,199.41	3/4	838.72	3/4	476.07	3/4	113.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,916.77	5	1,554.10	5	1,191.91	5	831.17	5	468.52	5	105.99	5	5	5	5	5	5	5	5
1/4	1,909.21	1/4	1,546.55	1/4	1,184.40	1/4	823.61	1/4	460.96	1/4	98.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,901.66	1/2	1,538.99	1/2	1,176.90	1/2	816.06	1/2	453.41	1/2	90.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,894.10	3/4	1,531.44	3/4	1,169.40	3/4	808.50	3/4	445.85	3/4	84.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,886.54	6	1,523.88	6	1,161.89	6	800.95	6	438.30	6	77.10	6	6	6	6	6	6	6	6
1/4	1,878.99	1/4	1,516.32	1/4	1,154.39	1/4	793.39	1/4	430.74	1/4	70.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,871.43	1/2	1,508.77	1/2	1,146.89	1/2	785.84	1/2	423.19	1/2	63.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,863.88	3/4	1,501.21	3/4	1,139.38	3/4	778.28	3/4	415.63	3/4	57.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,856.32	7	1,493.66	7	1,131.88	7	770.72	7	408.08	7	51.92	7	7	7	7	7	7	7	7
1/4	1,848.77	1/4	1,486.10	1/4	1,124.37	1/4	763.17	1/4	400.52	1/4	46.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,841.21	1/2	1,478.55	1/2	1,116.87	1/2	755.61	1/2	392.96	1/2	40.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,833.66	3/4	1,470.99	3/4	1,109.37	3/4	748.06	3/4	385.41	3/4	36.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,826.10	8	1,463.44	8	1,101.86	8	740.50	8	377.85	8	31.78	8	8	8	8	8	8	8	8
1/4	1,818.54	1/4	1,455.88	1/4	1,094.36	1/4	732.95	1/4	370.30	1/4	27.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,810.99	1/2	1,448.33	1/2	1,086.86	1/2	725.39	1/2	362.74	1/2	22.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,803.43	3/4	1,440.77	3/4	1,079.35	3/4	717.84	3/4	355.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,795.88	9	1,433.21	9	1,071.85	9	710.28	9	347.63	9		9	9	9	9	9	9	9	9
1/4	1,788.32	1/4	1,425.66	1/4	1,064.35	1/4	702.73	1/4	340.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,780.77	1/2	1,418.10	1/2	1,056.84	1/2	695.17	1/2	332.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,773.21	3/4	1,410.55	3/4	1,049.34	3/4	687.62	3/4	324.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,765.66	10	1,402.99	10	1,041.83	10	680.06	10	317.41	10		10	10	10	10	10	10	10	10
1/4	1,758.10	1/4	1,395.44	1/4	1,034.33	1/4	672.51	1/4	309.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,750.55	1/2	1,387.88	1/2	1,026.83	1/2	664.95	1/2	302.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,742.99	3/4	1,380.33	3/4	1,019.32	3/4	657.40	3/4	294.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,735.43	11	1,372.77	11	1,011.82	11	649.84	11	287.19	11		11	11	11	11	11	11	11	11
1/4	1,727.88	1/4	1,365.21	1/4	1,004.32	1/4	642.29	1/4	279.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,720.32	1/2	1,357.66	1/2	996.81	1/2	634.73	1/2	272.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,712.77	3/4	1,350.10	3/4	989.31	3/4	627.18	3/4	264.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 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 "HBC 304"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	IN	0
					4,927.46		4,583.05		4,223.39		3,862.07		3,500.76		3,139.44		2,778.13		2,416.74		
1/4	1/4	5,229.07	1/4	4,920.48	1/4	4,575.69	1/4	4,215.86	1/4	3,854.54	1/4	3,493.23	1/4	3,131.91	1/4	2,770.60	1/4	2,409.21			
1/2	1/2	5,224.75	1/2	4,913.47	1/2	4,568.30	1/2	4,208.33	1/2	3,847.02	1/2	3,485.70	1/2	3,124.39	1/2	2,763.07	1/2	2,401.68			
3/4	3/4	5,220.43	3/4	4,906.47	3/4	4,560.90	3/4	4,200.81	3/4	3,839.49	3/4	3,478.17	3/4	3,116.86	3/4	2,755.54	3/4	2,394.15			
1	1	5,216.11	1	4,899.46	1	4,553.51	1	4,193.28	1	3,831.96	1	3,470.65	1	3,109.33	1	2,748.02	1	2,386.62			
1/4	1/4	5,211.79	1/4	4,892.45	1/4	4,546.12	1/4	4,185.75	1/4	3,824.44	1/4	3,463.12	1/4	3,101.80	1/4	2,740.49	1/4	2,379.09			
1/2	1/2	5,206.25	1/2	4,885.41	1/2	4,538.69	1/2	4,178.22	1/2	3,816.91	1/2	3,455.59	1/2	3,094.28	1/2	2,732.96	1/2	2,371.56			
3/4	3/4	5,200.70	3/4	4,878.38	3/4	4,531.27	3/4	4,170.70	3/4	3,809.38	3/4	3,448.07	3/4	3,086.75	3/4	2,725.43	3/4	2,364.03			
2	2	5,195.15	2	4,871.34	2	4,523.85	2	4,163.17	2	3,801.85	2	3,440.54	2	3,079.22	2	2,717.91	2	2,356.50			
1/4	1/4	5,189.61	1/4	4,864.30	1/4	4,516.42	1/4	4,155.64	1/4	3,794.33	1/4	3,433.01	1/4	3,071.70	1/4	2,710.38	1/4	2,348.97			
1/2	1/2	5,183.60	1/2	4,857.24	1/2	4,508.97	1/2	4,148.11	1/2	3,786.80	1/2	3,425.48	1/2	3,064.17	1/2	2,702.85	1/2	2,341.44			
3/4	3/4	5,177.59	3/4	4,850.17	3/4	4,501.52	3/4	4,140.59	3/4	3,779.27	3/4	3,417.96	3/4	3,056.64	3/4	2,695.33	3/4	2,333.91			
3	3	5,171.57	3	4,843.10	3	4,494.06	3	4,133.06	3	3,771.74	3	3,410.43	3	3,049.11	3	2,687.80	3	2,326.38			
1/4	1/4	5,165.56	1/4	4,836.04	1/4	4,486.61	1/4	4,125.53	1/4	3,764.22	1/4	3,402.90	1/4	3,041.59	1/4	2,680.27	1/4	2,318.85			
1/2	1/2	5,158.93	1/2	4,828.94	1/2	4,479.13	1/2	4,118.00	1/2	3,756.69	1/2	3,395.37	1/2	3,034.06	1/2	2,672.74	1/2	2,311.32			
3/4	3/4	5,152.29	3/4	4,821.84	3/4	4,471.64	3/4	4,110.48	3/4	3,749.16	3/4	3,387.85	3/4	3,026.53	3/4	2,665.22	3/4	2,303.79			
4	4	5,145.66	4	4,814.74	4	4,464.16	4	4,102.95	4	3,741.63	4	3,380.32	4	3,019.00	4	2,657.69	4	2,296.26			
1/4	1/4	5,139.02	1/4	4,807.65	1/4	4,456.68	1/4	4,095.42	1/4	3,734.11	1/4	3,372.79	1/4	3,011.48	1/4	2,650.16	1/4	2,288.73			
1/2	1/2	5,132.33	1/2	4,800.52	1/2	4,449.17	1/2	4,087.89	1/2	3,726.58	1/2	3,365.26	1/2	3,003.95	1/2	2,642.63	1/2	2,281.20			
3/4	3/4	5,125.64	3/4	4,793.40	3/4	4,441.65	3/4	4,080.37	3/4	3,719.05	3/4	3,357.74	3/4	2,996.42	3/4	2,635.11	3/4	2,273.67			
5	5	5,118.95	5	4,786.27	5	4,434.14	5	4,072.84	5	3,711.52	5	3,350.21	5	2,988.89	5	2,627.58	5	2,266.14			
1/4	1/4	5,112.26	1/4	4,779.14	1/4	4,426.63	1/4	4,065.31	1/4	3,704.00	1/4	3,342.68	1/4	2,981.37	1/4	2,620.05	1/4	2,258.61			
1/2	1/2	5,105.54	1/2	4,771.99	1/2	4,419.10	1/2	4,057.78	1/2	3,696.47	1/2	3,335.15	1/2	2,973.84	1/2	2,612.52	1/2	2,251.08			
3/4	3/4	5,098.81	3/4	4,764.83	3/4	4,411.57	3/4	4,050.26	3/4	3,688.94	3/4	3,327.63	3/4	2,966.31	3/4	2,604.99	3/4	2,243.55			
6	6	5,092.08	6	4,757.67	6	4,404.04	6	4,042.73	6	3,681.41	6	3,320.10	6	2,958.78	6	2,597.46	6	2,236.02			
1/4	1/4	5,085.35	1/4	4,750.52	1/4	4,396.52	1/4	4,035.20	1/4	3,673.89	1/4	3,312.57	1/4	2,951.26	1/4	2,589.93	1/4	2,228.49			
1/2	1/2	5,078.59	1/2	4,743.33	1/2	4,388.99	1/2	4,027.67	1/2	3,666.36	1/2	3,305.04	1/2	2,943.73	1/2	2,582.40	1/2	2,220.96			
3/4	3/4	5,071.83	3/4	4,736.15	3/4	4,381.46	3/4	4,020.15	3/4	3,658.83	3/4	3,297.52	3/4	2,936.20	3/4	2,574.87	3/4	2,213.43			
7	7	5,065.07	7	4,728.96	7	4,373.94	7	4,012.62	7	3,651.30	7	3,289.99	7	2,928.67	7	2,567.34	7	2,205.90			
1/4	1/4	5,058.31	1/4	4,721.77	1/4	4,366.41	1/4	4,005.09	1/4	3,643.78	1/4	3,282.46	1/4	2,921.15	1/4	2,559.81	1/4	2,198.37			
1/2	1/2	5,051.52	1/2	4,714.53	1/2	4,358.88	1/2	3,997.57	1/2	3,636.25	1/2	3,274.93	1/2	2,913.62	1/2	2,552.28	1/2	2,190.84			
3/4	3/4	5,044.73	3/4	4,707.29	3/4	4,351.35	3/4	3,990.04	3/4	3,628.72	3/4	3,267.41	3/4	2,906.09	3/4	2,544.75	3/4	2,183.31			
8	8	5,037.94	8	4,700.04	8	4,343.83	8	3,982.51	8	3,621.20	8	3,259.88	8	2,898.56	8	2,537.22	8	2,175.78			
1/4	1/4	5,031.15	1/4	4,692.80	1/4	4,336.30	1/4	3,974.98	1/4	3,613.67	1/4	3,252.35	1/4	2,891.04	1/4	2,529.69	1/4	2,168.25			
1/2	1/2	5,024.33	1/2	4,685.52	1/2	4,328.77	1/2	3,967.46	1/2	3,606.14	1/2	3,244.83	1/2	2,883.51	1/2	2,522.16	1/2	2,160.71			
3/4	3/4	5,017.51	3/4	4,678.25	3/4	4,321.24	3/4	3,959.93	3/4	3,598.61	3/4	3,237.30	3/4	2,875.98	3/4	2,514.63	3/4	2,153.18			
9	9	5,010.70	9	4,670.97	9	4,313.72	9	3,952.40	9	3,591.09	9	3,229.77	9	2,868.46	9	2,507.10	9	2,145.65			
1/4	1/4	5,003.88	1/4	4,663.70	1/4	4,306.19	1/4	3,944.87	1/4	3,583.56	1/4	3,222.24	1/4	2,860.93	1/4	2,499.57	1/4	2,138.12			
1/2	1/2	4,996.96	1/2	4,656.39	1/2	4,298.66	1/2	3,937.35	1/2	3,576.03	1/2	3,214.72	1/2	2,853.40	1/2	2,492.04	1/2	2,130.59			
3/4	3/4	4,990.03	3/4	4,649.09	3/4	4,291.13	3/4	3,929.82	3/4	3,568.50	3/4	3,207.19	3/4	2,845.87	3/4	2,484.51	3/4	2,123.06			
10	10	4,983.11	10	4,641.78	10	4,283.61	10	3,922.29	10	3,560.98	10	3,199.66	10	2,838.35	10	2,476.98	10	2,115.53			
1/4	1/4	4,976.19	1/4	4,634.48	1/4	4,276.08	1/4	3,914.76	1/4	3,553.45	1/4	3,192.13	1/4	2,830.82	1/4	2,469.45	1/4	2,108.00			
1/2	1/2	4,969.24	1/2	4,627.15	1/2	4,268.55	1/2	3,907.24	1/2	3,545.92	1/2	3,184.61	1/2	2,823.29	1/2	2,461.92	1/2	2,100.47			
3/4	3/4	4,962.29	3/4	4,619.81	3/4	4,261.02	3/4	3,899.71	3/4	3,538.39	3/4	3,177.08	3/4	2,815.76	3/4	2,454.39	3/4	2,092.94			
11	11	4,955.34	11	4,612.48	11	4,253.50	11	3,892.18	11	3,530.87	11	3,169.55	11	2,808.24	11	2,446.86	11	2,085.41			
1/4	1/4	4,948.39	1/4	4,605.14	1/4	4,245.97	1/4	3,884.65	1/4	3,523.34	1/4	3,162.02	1/4	2,800.71	1/4	2,439.33	1/4	2,077.88			
1/2	1/2	4,941.41	1/2	4,597.78	1/2	4,238.44	1/2	3,877.13	1/2	3,515.81	1/2	3,154.50	1/2	2,793.18	1/2	2,431.80	1/2	2,070.35			
3/4	3/4	4,934.44	3/4	4,590.42	3/4	4,230.91	3/4	3,869.60	3/4	3,508.28	3/4	3,146.97	3/4	2,785.65	3/4	2,424.27	3/4	2,062.82			

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-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 "HBC 304"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,055.29	0	1,693.85	0	1,332.40	0	971.39	0	610.01	0	248.58	0		0		0		0	
1/4	2,047.76	1/4	1,686.32	1/4	1,324.87	1/4	963.87	1/4	602.49	1/4	241.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,040.23	1/2	1,678.79	1/2	1,317.34	1/2	956.35	1/2	594.96	1/2	233.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,032.70	3/4	1,671.26	3/4	1,309.81	3/4	948.84	3/4	587.43	3/4	225.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,025.17	1	1,663.73	1	1,302.28	1	941.32	1	579.90	1	218.46	1	1	1	1	1	1	1	1
1/4	2,017.64	1/4	1,656.20	1/4	1,294.75	1/4	933.80	1/4	572.37	1/4	210.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.11	1/2	1,648.67	1/2	1,287.22	1/2	926.27	1/2	564.84	1/2	203.40	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,002.58	3/4	1,641.14	3/4	1,279.69	3/4	918.74	3/4	557.31	3/4	195.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,995.05	2	1,633.61	2	1,272.16	2	911.21	2	549.78	2	188.34	2	2	2	2	2	2	2	2
1/4	1,987.52	1/4	1,626.08	1/4	1,264.63	1/4	903.68	1/4	542.25	1/4	180.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.99	1/2	1,618.55	1/2	1,257.10	1/2	896.15	1/2	534.72	1/2	173.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.46	3/4	1,611.02	3/4	1,249.57	3/4	888.62	3/4	527.19	3/4	165.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,964.93	3	1,603.49	3	1,242.04	3	881.09	3	519.66	3	158.22	3	3	3	3	3	3	3	3
1/4	1,957.40	1/4	1,595.96	1/4	1,234.51	1/4	873.56	1/4	512.13	1/4	150.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,949.87	1/2	1,588.43	1/2	1,226.99	1/2	866.03	1/2	504.60	1/2	143.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.34	3/4	1,580.90	3/4	1,219.48	3/4	858.50	3/4	497.07	3/4	135.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,934.81	4	1,573.37	4	1,211.96	4	850.97	4	489.54	4	128.14	4	4	4	4	4	4	4	4
1/4	1,927.28	1/4	1,565.84	1/4	1,204.44	1/4	843.44	1/4	482.01	1/4	120.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.75	1/2	1,558.31	1/2	1,196.92	1/2	835.91	1/2	474.48	1/2	113.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.22	3/4	1,550.78	3/4	1,189.41	3/4	828.38	3/4	466.95	3/4	105.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,904.69	5	1,543.25	5	1,181.89	5	820.85	5	459.42	5	98.14	5	5	5	5	5	5	5	5
1/4	1,897.16	1/4	1,535.72	1/4	1,174.37	1/4	813.32	1/4	451.89	1/4	90.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.63	1/2	1,528.19	1/2	1,166.85	1/2	805.79	1/2	444.36	1/2	83.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.10	3/4	1,520.66	3/4	1,159.33	3/4	798.26	3/4	436.83	3/4	76.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,874.57	6	1,513.13	6	1,151.82	6	790.73	6	429.30	6	69.94	6	6	6	6	6	6	6	6
1/4	1,867.04	1/4	1,505.60	1/4	1,144.30	1/4	783.20	1/4	421.77	1/4	63.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.51	1/2	1,498.07	1/2	1,136.78	1/2	775.67	1/2	414.24	1/2	57.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,851.98	3/4	1,490.54	3/4	1,129.26	3/4	768.14	3/4	406.71	3/4	51.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,844.45	7	1,483.01	7	1,121.75	7	760.61	7	399.18	7	46.10	7	7	7	7	7	7	7	7
1/4	1,836.92	1/4	1,475.48	1/4	1,114.23	1/4	753.08	1/4	391.65	1/4	40.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.39	1/2	1,467.95	1/2	1,106.71	1/2	745.55	1/2	384.12	1/2	36.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,821.86	3/4	1,460.42	3/4	1,099.19	3/4	738.02	3/4	376.59	3/4	31.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,814.33	8	1,452.89	8	1,091.67	8	730.49	8	369.06	8	27.28	8	8	8	8	8	8	8	8
1/4	1,806.80	1/4	1,445.36	1/4	1,084.16	1/4	722.96	1/4	361.53	1/4	22.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,799.27	1/2	1,437.83	1/2	1,076.64	1/2	715.43	1/2	354.00	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.74	3/4	1,430.30	3/4	1,069.12	3/4	707.90	3/4	346.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,784.21	9	1,422.77	9	1,061.60	9	700.37	9	338.94	9		9	9	9	9	9	9	9	9
1/4	1,776.68	1/4	1,415.24	1/4	1,054.09	1/4	692.84	1/4	331.41	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,769.15	1/2	1,407.70	1/2	1,046.57	1/2	685.31	1/2	323.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,761.62	3/4	1,400.17	3/4	1,039.05	3/4	677.78	3/4	316.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,754.09	10	1,392.64	10	1,031.53	10	670.25	10	308.82	10		10	10	10	10	10	10	10	10
1/4	1,746.56	1/4	1,385.11	1/4	1,024.01	1/4	662.72	1/4	301.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,739.03	1/2	1,377.58	1/2	1,016.50	1/2	655.19	1/2	293.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,731.50	3/4	1,370.05	3/4	1,008.98	3/4	647.66	3/4	286.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,723.97	11	1,362.52	11	1,001.46	11	640.13	11	278.70	11		11	11	11	11	11	11	11	11
1/4	1,716.44	1/4	1,354.99	1/4	993.94	1/4	632.60	1/4	271.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,708.91	1/2	1,347.46	1/2	986.43	1/2	625.07	1/2	263.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,701.38	3/4	1,339.93	3/4	978.91	3/4	617.54	3/4	256.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HBC 304"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	4,918.55	0	4,574.53	0	4,215.02	0	3,853.71	0	3,492.40	0	3,131.09	0	2,769.78	0	2,408.39
1/4		1/4		1/4	4,911.57	1/4	4,567.17	1/4	4,207.49	1/4	3,846.18	1/4	3,484.87	1/4	3,123.56	1/4	2,762.25	1/4	2,400.86
1/2		1/2	5,213.19	1/2	4,904.60	1/2	4,559.80	1/2	4,199.97	1/2	3,838.66	1/2	3,477.35	1/2	3,116.04	1/2	2,754.73	1/2	2,393.33
3/4		3/4	5,208.87	3/4	4,897.59	3/4	4,552.41	3/4	4,192.44	3/4	3,831.13	3/4	3,469.82	3/4	3,108.51	3/4	2,747.20	3/4	2,385.80
1		1	5,204.55	1	4,890.58	1	4,545.02	1	4,184.91	1	3,823.60	1	3,462.29	1	3,100.98	1	2,739.67	1	2,378.27
1/4		1/4	5,200.23	1/4	4,883.57	1/4	4,537.62	1/4	4,177.39	1/4	3,816.07	1/4	3,454.76	1/4	3,093.45	1/4	2,732.14	1/4	2,370.74
1/2		1/2	5,195.91	1/2	4,876.57	1/2	4,530.23	1/2	4,169.86	1/2	3,808.55	1/2	3,447.24	1/2	3,085.93	1/2	2,724.62	1/2	2,363.21
3/4		3/4	5,190.36	3/4	4,869.53	3/4	4,522.80	3/4	4,162.33	3/4	3,801.02	3/4	3,439.71	3/4	3,078.40	3/4	2,717.09	3/4	2,355.68
2		2	5,184.82	2	4,862.49	2	4,515.38	2	4,154.80	2	3,793.49	2	3,432.18	2	3,070.87	2	2,709.56	2	2,348.15
1/4		1/4	5,179.27	1/4	4,855.45	1/4	4,507.96	1/4	4,147.28	1/4	3,785.97	1/4	3,424.66	1/4	3,063.34	1/4	2,702.03	1/4	2,340.62
1/2		1/2	5,173.72	1/2	4,848.42	1/2	4,500.54	1/2	4,139.75	1/2	3,778.44	1/2	3,417.13	1/2	3,055.82	1/2	2,694.51	1/2	2,333.09
3/4		3/4	5,167.71	3/4	4,841.35	3/4	4,493.08	3/4	4,132.22	3/4	3,770.91	3/4	3,409.60	3/4	3,048.29	3/4	2,686.98	3/4	2,325.56
3		3	5,161.70	3	4,834.28	3	4,485.63	3	4,124.69	3	3,763.38	3	3,402.07	3	3,040.76	3	2,679.45	3	2,318.03
1/4		1/4	5,155.69	1/4	4,827.22	1/4	4,478.18	1/4	4,117.17	1/4	3,755.86	1/4	3,394.55	1/4	3,033.24	1/4	2,671.93	1/4	2,310.50
1/2		1/2	5,149.68	1/2	4,820.15	1/2	4,470.72	1/2	4,109.64	1/2	3,748.33	1/2	3,387.02	1/2	3,025.71	1/2	2,664.40	1/2	2,302.97
3/4		3/4	5,143.04	3/4	4,813.05	3/4	4,463.24	3/4	4,102.11	3/4	3,740.80	3/4	3,379.49	3/4	3,018.18	3/4	2,656.87	3/4	2,295.44
4		4	5,136.41	4	4,805.96	4	4,455.76	4	4,094.59	4	3,733.27	4	3,371.96	4	3,010.65	4	2,649.34	4	2,287.91
1/4		1/4	5,129.78	1/4	4,798.86	1/4	4,448.27	1/4	4,087.06	1/4	3,725.75	1/4	3,364.44	1/4	3,003.13	1/4	2,641.82	1/4	2,280.38
1/2		1/2	5,123.14	1/2	4,791.76	1/2	4,440.79	1/2	4,079.53	1/2	3,718.22	1/2	3,356.91	1/2	2,995.60	1/2	2,634.29	1/2	2,272.85
3/4		3/4	5,116.45	3/4	4,784.64	3/4	4,433.28	3/4	4,072.00	3/4	3,710.69	3/4	3,349.38	3/4	2,988.07	3/4	2,626.76	3/4	2,265.32
5		5	5,109.76	5	4,777.51	5	4,425.76	5	4,064.48	5	3,703.17	5	3,341.85	5	2,980.54	5	2,619.23	5	2,257.79
1/4		1/4	5,103.07	1/4	4,770.38	1/4	4,418.25	1/4	4,056.95	1/4	3,695.64	1/4	3,334.33	1/4	2,973.02	1/4	2,611.71	1/4	2,250.26
1/2		1/2	5,096.38	1/2	4,763.26	1/2	4,410.73	1/2	4,049.42	1/2	3,688.11	1/2	3,326.80	1/2	2,965.49	1/2	2,604.18	1/2	2,242.73
3/4		3/4	5,089.65	3/4	4,756.10	3/4	4,403.20	3/4	4,041.89	3/4	3,680.58	3/4	3,319.27	3/4	2,957.96	3/4	2,596.65	3/4	2,235.20
6		6	5,082.92	6	4,748.94	6	4,395.68	6	4,034.37	6	3,673.06	6	3,311.75	6	2,950.44	6	2,589.12	6	2,227.67
1/4		1/4	5,076.19	1/4	4,741.79	1/4	4,388.15	1/4	4,026.84	1/4	3,665.53	1/4	3,304.22	1/4	2,942.91	1/4	2,581.59	1/4	2,220.14
1/2		1/2	5,069.47	1/2	4,734.63	1/2	4,380.62	1/2	4,019.31	1/2	3,658.00	1/2	3,296.69	1/2	2,935.38	1/2	2,574.06	1/2	2,212.61
3/4		3/4	5,062.71	3/4	4,727.45	3/4	4,373.10	3/4	4,011.78	3/4	3,650.47	3/4	3,289.16	3/4	2,927.85	3/4	2,566.53	3/4	2,205.08
7		7	5,055.95	7	4,720.26	7	4,365.57	7	4,004.26	7	3,642.95	7	3,281.64	7	2,920.33	7	2,559.00	7	2,197.55
1/4		1/4	5,049.19	1/4	4,713.07	1/4	4,358.04	1/4	3,996.73	1/4	3,635.42	1/4	3,274.11	1/4	2,912.80	1/4	2,551.47	1/4	2,190.02
1/2		1/2	5,042.43	1/2	4,705.89	1/2	4,350.51	1/2	3,989.20	1/2	3,627.89	1/2	3,266.58	1/2	2,905.27	1/2	2,543.94	1/2	2,182.49
3/4		3/4	5,035.64	3/4	4,698.64	3/4	4,342.99	3/4	3,981.68	3/4	3,620.37	3/4	3,259.05	3/4	2,897.74	3/4	2,536.41	3/4	2,174.96
8		8	5,028.85	8	4,691.40	8	4,335.46	8	3,974.15	8	3,612.84	8	3,251.53	8	2,890.22	8	2,528.88	8	2,167.43
1/4		1/4	5,022.06	1/4	4,684.15	1/4	4,327.93	1/4	3,966.62	1/4	3,605.31	1/4	3,244.00	1/4	2,882.69	1/4	2,521.35	1/4	2,159.90
1/2		1/2	5,015.27	1/2	4,676.91	1/2	4,320.40	1/2	3,959.09	1/2	3,597.78	1/2	3,236.47	1/2	2,875.16	1/2	2,513.82	1/2	2,152.37
3/4		3/4	5,008.45	3/4	4,669.63	3/4	4,312.88	3/4	3,951.57	3/4	3,590.26	3/4	3,228.95	3/4	2,867.64	3/4	2,506.29	3/4	2,144.84
9		9	5,001.63	9	4,662.36	9	4,305.35	9	3,944.04	9	3,582.73	9	3,221.42	9	2,860.11	9	2,498.76	9	2,137.31
1/4		1/4	4,994.81	1/4	4,655.08	1/4	4,297.82	1/4	3,936.51	1/4	3,575.20	1/4	3,213.89	1/4	2,852.58	1/4	2,491.23	1/4	2,129.78
1/2		1/2	4,987.99	1/2	4,647.81	1/2	4,290.29	1/2	3,928.98	1/2	3,567.67	1/2	3,206.36	1/2	2,845.05	1/2	2,483.70	1/2	2,122.25
3/4		3/4	4,981.07	3/4	4,640.51	3/4	4,282.77	3/4	3,921.46	3/4	3,560.15	3/4	3,198.84	3/4	2,837.53	3/4	2,476.17	3/4	2,114.72
10		10	4,974.15	10	4,633.20	10	4,275.24	10	3,913.93	10	3,552.62	10	3,191.31	10	2,830.00	10	2,468.64	10	2,107.19
1/4		1/4	4,967.23	1/4	4,625.90	1/4	4,267.71	1/4	3,906.40	1/4	3,545.09	1/4	3,183.78	1/4	2,822.47	1/4	2,461.11	1/4	2,099.66
1/2		1/2	4,960.31	1/2	4,618.59	1/2	4,260.19	1/2	3,898.88	1/2	3,537.56	1/2	3,176.25	1/2	2,814.94	1/2	2,453.58	1/2	2,092.13
3/4		3/4	4,953.36	3/4	4,611.26	3/4	4,252.66	3/4	3,891.35	3/4	3,530.04	3/4	3,168.73	3/4	2,807.42	3/4	2,446.05	3/4	2,084.60
11		11	4,946.41	11	4,603.93	11	4,245.13	11	3,883.82	11	3,522.51	11	3,161.20	11	2,799.89	11	2,438.52	11	2,077.07
1/4		1/4	4,939.46	1/4	4,596.59	1/4	4,237.60	1/4	3,876.29	1/4	3,514.98	1/4	3,153.67	1/4	2,792.36	1/4	2,430.98	1/4	2,069.54
1/2		1/2	4,932.51	1/2	4,589.26	1/2	4,230.08	1/2	3,868.77	1/2	3,507.46	1/2	3,146.15	1/2	2,784.83	1/2	2,423.45	1/2	2,062.01
3/4		3/4	4,925.53	3/4	4,581.89	3/4	4,222.55	3/4	3,861.24	3/4	3,499.93	3/4	3,138.62	3/4	2,777.31	3/4	2,415.92	3/4	2,054.47

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-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 "HBC 304"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

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	2,046.94	0	1,685.50	0	1,324.05	0	975.59	0	617.54	0	256.11	0		0		0		0	
1/4	2,039.41	1/4	1,677.96	1/4	1,316.52	1/4	968.41	1/4	610.01	1/4	248.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.88	1/2	1,670.43	1/2	1,308.99	1/2	961.22	1/2	602.48	1/2	241.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,024.35	3/4	1,662.90	3/4	1,301.45	3/4	954.03	3/4	594.95	3/4	233.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,016.82	1	1,655.37	1	1,293.92	1	946.85	1	587.42	1	225.99	1	1	1	1	1	1	1	1
1/4	2,009.29	1/4	1,647.84	1/4	1,286.39	1/4	939.66	1/4	579.90	1/4	218.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,001.76	1/2	1,640.31	1/2	1,278.86	1/2	932.47	1/2	572.37	1/2	210.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,994.23	3/4	1,632.78	3/4	1,271.33	3/4	925.27	3/4	564.84	3/4	203.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,986.70	2	1,625.25	2	1,263.80	2	918.08	2	557.31	2	195.87	2	2	2	2	2	2	2	2
1/4	1,979.17	1/4	1,617.72	1/4	1,256.27	1/4	910.88	1/4	549.78	1/4	188.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.64	1/2	1,610.19	1/2	1,248.74	1/2	903.68	1/2	542.25	1/2	180.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.11	3/4	1,602.66	3/4	1,241.54	3/4	896.15	3/4	534.72	3/4	173.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,956.58	3	1,595.13	3	1,234.35	3	888.62	3	527.19	3	165.75	3	3	3	3	3	3	3	3
1/4	1,949.05	1/4	1,587.60	1/4	1,227.15	1/4	881.09	1/4	519.66	1/4	158.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.52	1/2	1,580.07	1/2	1,219.95	1/2	873.56	1/2	512.13	1/2	150.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,933.99	3/4	1,572.54	3/4	1,212.76	3/4	866.03	3/4	504.60	3/4	143.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,926.46	4	1,565.01	4	1,205.57	4	858.50	4	497.07	4	135.66	4	4	4	4	4	4	4	4
1/4	1,918.93	1/4	1,557.48	1/4	1,198.39	1/4	850.97	1/4	489.54	1/4	128.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,911.40	1/2	1,549.95	1/2	1,191.20	1/2	843.44	1/2	482.01	1/2	120.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,903.87	3/4	1,542.42	3/4	1,184.01	3/4	835.91	3/4	474.48	3/4	113.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,896.34	5	1,534.89	5	1,176.83	5	828.38	5	466.95	5	105.63	5	5	5	5	5	5	5	5
1/4	1,888.81	1/4	1,527.36	1/4	1,169.64	1/4	820.85	1/4	459.42	1/4	98.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.28	1/2	1,519.83	1/2	1,162.45	1/2	813.32	1/2	451.89	1/2	90.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,873.75	3/4	1,512.30	3/4	1,155.27	3/4	805.79	3/4	444.36	3/4	83.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,866.22	6	1,504.77	6	1,148.08	6	798.26	6	436.83	6	76.84	6	6	6	6	6	6	6	6
1/4	1,858.69	1/4	1,497.24	1/4	1,140.89	1/4	790.73	1/4	429.30	1/4	69.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,851.16	1/2	1,489.71	1/2	1,133.70	1/2	783.20	1/2	421.77	1/2	63.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.63	3/4	1,482.18	3/4	1,126.52	3/4	775.67	3/4	414.24	3/4	57.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,836.10	7	1,474.65	7	1,119.33	7	768.14	7	406.71	7	51.75	7	7	7	7	7	7	7	7
1/4	1,828.57	1/4	1,467.12	1/4	1,112.14	1/4	760.61	1/4	399.18	1/4	46.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,821.04	1/2	1,459.59	1/2	1,104.96	1/2	753.08	1/2	391.65	1/2	40.45	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,813.51	3/4	1,452.06	3/4	1,097.77	3/4	745.55	3/4	384.12	3/4	36.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,805.98	8	1,444.53	8	1,090.58	8	738.02	8	376.59	8	31.67	8	8	8	8	8	8	8	8
1/4	1,798.45	1/4	1,437.00	1/4	1,083.40	1/4	730.49	1/4	369.06	1/4	27.28	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,790.92	1/2	1,429.47	1/2	1,076.21	1/2	722.96	1/2	361.53	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.39	3/4	1,421.94	3/4	1,069.02	3/4	715.43	3/4	354.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,775.86	9	1,414.41	9	1,061.84	9	707.90	9	346.47	9		9	9	9	9	9	9	9	9
1/4	1,768.33	1/4	1,406.88	1/4	1,054.65	1/4	700.37	1/4	338.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,760.80	1/2	1,399.35	1/2	1,047.46	1/2	692.84	1/2	331.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.27	3/4	1,391.82	3/4	1,040.28	3/4	685.31	3/4	323.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,745.74	10	1,384.29	10	1,033.09	10	677.78	10	316.35	10		10	10	10	10	10	10	10	10
1/4	1,738.21	1/4	1,376.76	1/4	1,025.90	1/4	670.25	1/4	308.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,730.68	1/2	1,369.23	1/2	1,018.71	1/2	662.72	1/2	301.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.15	3/4	1,361.70	3/4	1,011.53	3/4	655.19	3/4	293.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,715.62	11	1,354.17	11	1,004.34	11	647.66	11	286.23	11		11	11	11	11	11	11	11	11
1/4	1,708.09	1/4	1,346.64	1/4	997.15	1/4	640.13	1/4	278.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.56	1/2	1,339.11	1/2	989.97	1/2	632.60	1/2	271.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.03	3/4	1,331.58	3/4	982.78	3/4	625.07	3/4	263.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 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 "HBC 304"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,255.19	0	4,070.77	0	3,878.24	0	3,684.83	0	3,481.12	0	3,123.43	0	2,764.47	0	2,404.91
1/4		1/4	4,406.19	1/4	4,251.45	1/4	4,066.83	1/4	3,874.21	1/4	3,680.80	1/4	3,473.66	1/4	3,115.95	1/4	2,756.98	1/4	2,397.42
1/2		1/2	4,405.32	1/2	4,247.70	1/2	4,062.87	1/2	3,870.18	1/2	3,676.77	1/2	3,466.21	1/2	3,108.47	1/2	2,749.49	1/2	2,389.93
3/4		3/4	4,404.45	3/4	4,243.94	3/4	4,058.92	3/4	3,866.15	3/4	3,672.74	3/4	3,458.75	3/4	3,101.00	3/4	2,742.00	3/4	2,382.44
1		1	4,403.58	1	4,240.19	1	4,054.96	1	3,862.12	1	3,668.71	1	3,451.29	1	3,093.52	1	2,734.51	1	2,374.95
1/4		1/4	4,402.71	1/4	4,236.44	1/4	4,051.00	1/4	3,858.10	1/4	3,664.68	1/4	3,443.83	1/4	3,086.04	1/4	2,727.02	1/4	2,367.46
1/2		1/2	4,400.61	1/2	4,232.67	1/2	4,047.03	1/2	3,854.07	1/2	3,660.65	1/2	3,436.37	1/2	3,078.56	1/2	2,719.53	1/2	2,359.96
3/4		3/4	4,398.50	3/4	4,228.90	3/4	4,043.05	3/4	3,850.04	3/4	3,656.62	3/4	3,428.91	3/4	3,071.09	3/4	2,712.04	3/4	2,352.47
2		2	4,396.40	2	4,225.13	2	4,039.08	2	3,846.01	2	3,652.59	2	3,421.45	2	3,063.61	2	2,704.55	2	2,344.98
1/4		1/4	4,394.30	1/4	4,221.36	1/4	4,035.10	1/4	3,841.98	1/4	3,648.56	1/4	3,414.00	1/4	3,056.13	1/4	2,697.06	1/4	2,337.49
1/2		1/2	4,391.37	1/2	4,217.58	1/2	4,031.11	1/2	3,837.95	1/2	3,644.53	1/2	3,406.54	1/2	3,048.66	1/2	2,689.57	1/2	2,330.00
3/4		3/4	4,388.44	3/4	4,213.79	3/4	4,027.12	3/4	3,833.92	3/4	3,640.50	3/4	3,399.08	3/4	3,041.18	3/4	2,682.08	3/4	2,322.51
3		3	4,385.51	3	4,210.01	3	4,023.13	3	3,829.89	3	3,636.47	3	3,391.62	3	3,033.70	3	2,674.59	3	2,315.02
1/4		1/4	4,382.58	1/4	4,206.23	1/4	4,019.15	1/4	3,825.86	1/4	3,632.44	1/4	3,384.16	1/4	3,026.22	1/4	2,667.10	1/4	2,307.52
1/2		1/2	4,379.04	1/2	4,202.42	1/2	4,015.14	1/2	3,821.83	1/2	3,628.41	1/2	3,376.70	1/2	3,018.75	1/2	2,659.61	1/2	2,300.03
3/4		3/4	4,375.50	3/4	4,198.62	3/4	4,011.13	3/4	3,817.80	3/4	3,624.38	3/4	3,369.24	3/4	3,011.27	3/4	2,652.12	3/4	2,292.54
4		4	4,371.97	4	4,194.82	4	4,007.13	4	3,813.77	4	3,620.35	4	3,361.79	4	3,003.79	4	2,644.63	4	2,285.05
1/4		1/4	4,368.43	1/4	4,191.02	1/4	4,003.12	1/4	3,809.74	1/4	3,616.32	1/4	3,354.33	1/4	2,996.31	1/4	2,637.14	1/4	2,277.56
1/2		1/2	4,364.86	1/2	4,187.21	1/2	3,999.10	1/2	3,805.71	1/2	3,612.30	1/2	3,346.87	1/2	2,988.84	1/2	2,629.65	1/2	2,270.07
3/4		3/4	4,361.28	3/4	4,183.39	3/4	3,995.08	3/4	3,801.68	3/4	3,608.27	3/4	3,339.41	3/4	2,981.36	3/4	2,622.16	3/4	2,262.58
5		5	4,357.70	5	4,179.57	5	3,991.06	5	3,797.65	5	3,604.24	5	3,331.95	5	2,973.88	5	2,614.67	5	2,255.09
1/4		1/4	4,354.13	1/4	4,175.76	1/4	3,987.04	1/4	3,793.62	1/4	3,600.21	1/4	3,324.49	1/4	2,966.41	1/4	2,607.18	1/4	2,247.59
1/2		1/2	4,350.52	1/2	4,171.93	1/2	3,983.01	1/2	3,789.59	1/2	3,596.18	1/2	3,317.05	1/2	2,958.93	1/2	2,599.69	1/2	2,240.10
3/4		3/4	4,346.92	3/4	4,168.09	3/4	3,978.98	3/4	3,785.56	3/4	3,592.15	3/4	3,309.61	3/4	2,951.45	3/4	2,592.20	3/4	2,232.61
6		6	4,343.32	6	4,164.26	6	3,974.95	6	3,781.53	6	3,588.12	6	3,302.16	6	2,943.97	6	2,584.71	6	2,225.12
1/4		1/4	4,339.72	1/4	4,160.43	1/4	3,970.92	1/4	3,777.51	1/4	3,584.09	1/4	3,294.72	1/4	2,936.50	1/4	2,577.22	1/4	2,217.63
1/2		1/2	4,336.10	1/2	4,156.58	1/2	3,966.89	1/2	3,773.48	1/2	3,580.06	1/2	3,287.28	1/2	2,929.02	1/2	2,569.72	1/2	2,210.14
3/4		3/4	4,332.48	3/4	4,152.73	3/4	3,962.86	3/4	3,769.45	3/4	3,576.03	3/4	3,279.83	3/4	2,921.54	3/4	2,562.23	3/4	2,202.65
7		7	4,328.86	7	4,148.89	7	3,958.83	7	3,765.42	7	3,572.00	7	3,272.39	7	2,914.06	7	2,554.74	7	2,195.15
1/4		1/4	4,325.24	1/4	4,145.04	1/4	3,954.80	1/4	3,761.39	1/4	3,567.97	1/4	3,264.95	1/4	2,906.59	1/4	2,547.25	1/4	2,187.66
1/2		1/2	4,321.61	1/2	4,141.16	1/2	3,950.77	1/2	3,757.36	1/2	3,563.94	1/2	3,257.51	1/2	2,899.11	1/2	2,539.76	1/2	2,180.17
3/4		3/4	4,317.97	3/4	4,137.28	3/4	3,946.74	3/4	3,753.33	3/4	3,559.91	3/4	3,250.06	3/4	2,891.63	3/4	2,532.27	3/4	2,172.68
8		8	4,314.34	8	4,133.40	8	3,942.71	8	3,749.30	8	3,555.88	8	3,242.62	8	2,884.16	8	2,524.78	8	2,165.19
1/4		1/4	4,310.70	1/4	4,129.52	1/4	3,938.69	1/4	3,745.27	1/4	3,551.85	1/4	3,235.18	1/4	2,876.68	1/4	2,517.28	1/4	2,157.70
1/2		1/2	4,307.05	1/2	4,125.63	1/2	3,934.66	1/2	3,741.24	1/2	3,547.82	1/2	3,227.73	1/2	2,869.20	1/2	2,509.79	1/2	2,150.21
3/4		3/4	4,303.40	3/4	4,121.73	3/4	3,930.63	3/4	3,737.21	3/4	3,543.79	3/4	3,220.29	3/4	2,861.72	3/4	2,502.30	3/4	2,142.71
9		9	4,299.75	9	4,117.84	9	3,926.60	9	3,733.18	9	3,539.76	9	3,212.85	9	2,854.25	9	2,494.81	9	2,135.22
1/4		1/4	4,296.10	1/4	4,113.95	1/4	3,922.57	1/4	3,729.15	1/4	3,535.73	1/4	3,205.40	1/4	2,846.77	1/4	2,487.32	1/4	2,127.73
1/2		1/2	4,292.40	1/2	4,110.04	1/2	3,918.54	1/2	3,725.12	1/2	3,531.71	1/2	3,197.96	1/2	2,839.29	1/2	2,479.83	1/2	2,120.24
3/4		3/4	4,288.69	3/4	4,106.12	3/4	3,914.51	3/4	3,721.09	3/4	3,527.68	3/4	3,190.52	3/4	2,831.81	3/4	2,472.34	3/4	2,112.75
10		10	4,284.98	10	4,102.21	10	3,910.48	10	3,717.06	10	3,523.65	10	3,183.08	10	2,824.34	10	2,464.84	10	2,105.26
1/4		1/4	4,281.28	1/4	4,098.30	1/4	3,906.45	1/4	3,713.03	1/4	3,519.62	1/4	3,175.63	1/4	2,816.86	1/4	2,457.35	1/4	2,097.77
1/2		1/2	4,277.56	1/2	4,094.38	1/2	3,902.42	1/2	3,709.00	1/2	3,515.59	1/2	3,168.19	1/2	2,809.38	1/2	2,449.86	1/2	2,090.27
3/4		3/4	4,273.84	3/4	4,090.45	3/4	3,898.39	3/4	3,704.97	3/4	3,511.56	3/4	3,160.75	3/4	2,801.90	3/4	2,442.37	3/4	2,082.78
11		11	4,270.12	11	4,086.53	11	3,894.36	11	3,700.94	11	3,507.53	11	3,153.30	11	2,794.43	11	2,434.88	11	2,075.29
1/4		1/4	4,266.40	1/4	4,082.60	1/4	3,890.33	1/4	3,696.92	1/4	3,503.50	1/4	3,145.86	1/4	2,786.95	1/4	2,427.39	1/4	2,067.80
1/2		1/2	4,262.66	1/2	4,078.66	1/2	3,886.30	1/2	3,692.89	1/2	3,496.04	1/2	3,138.38	1/2	2,779.46	1/2	2,419.90	1/2	2,060.31
3/4		3/4	4,258.92	3/4	4,074.72	3/4	3,882.27	3/4	3,688.86	3/4	3,488.58	3/4	3,130.91	3/4	2,771.97	3/4	2,412.40	3/4	2,052.82

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 304"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,045.33	0	1,685.65	0	1,325.98	0	966.61	0	607.02	0	247.36	0		0		0		0	
1/4	2,037.83	1/4	1,678.16	1/4	1,318.49	1/4	959.13	1/4	599.53	1/4	239.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,030.34	1/2	1,670.67	1/2	1,310.99	1/2	951.64	1/2	592.04	1/2	232.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,022.85	3/4	1,663.17	3/4	1,303.50	3/4	944.16	3/4	584.54	3/4	224.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,015.36	1	1,655.68	1	1,296.01	1	936.68	1	577.05	1	217.39	1	1	1	1	1	1	1	1
1/4	2,007.86	1/4	1,648.19	1/4	1,288.51	1/4	929.19	1/4	569.56	1/4	209.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,000.37	1/2	1,640.70	1/2	1,281.02	1/2	921.71	1/2	562.07	1/2	202.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,992.88	3/4	1,633.20	3/4	1,273.53	3/4	914.22	3/4	554.57	3/4	194.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,985.38	2	1,625.71	2	1,266.04	2	906.73	2	547.08	2	187.42	2	2	2	2	2	2	2	2
1/4	1,977.89	1/4	1,618.22	1/4	1,258.54	1/4	899.25	1/4	539.59	1/4	179.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,970.40	1/2	1,610.72	1/2	1,251.05	1/2	891.75	1/2	532.09	1/2	172.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,962.90	3/4	1,603.23	3/4	1,243.56	3/4	884.26	3/4	524.60	3/4	164.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,955.41	3	1,595.74	3	1,236.06	3	876.77	3	517.11	3	157.45	3	3	3	3	3	3	3	3
1/4	1,947.92	1/4	1,588.24	1/4	1,228.57	1/4	869.27	1/4	509.62	1/4	149.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,940.42	1/2	1,580.75	1/2	1,221.08	1/2	861.78	1/2	502.12	1/2	142.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,932.93	3/4	1,573.26	3/4	1,213.59	3/4	854.29	3/4	494.63	3/4	135.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,925.44	4	1,565.76	4	1,206.10	4	846.80	4	487.14	4	127.51	4	4	4	4	4	4	4	4
1/4	1,917.94	1/4	1,558.27	1/4	1,198.61	1/4	839.30	1/4	479.64	1/4	120.03	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,910.45	1/2	1,550.78	1/2	1,191.12	1/2	831.81	1/2	472.15	1/2	112.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,902.96	3/4	1,543.28	3/4	1,183.64	3/4	824.32	3/4	464.66	3/4	105.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,895.46	5	1,535.79	5	1,176.16	5	816.82	5	457.16	5	97.66	5	5	5	5	5	5	5	5
1/4	1,887.97	1/4	1,528.30	1/4	1,168.67	1/4	809.33	1/4	449.67	1/4	90.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,880.48	1/2	1,520.80	1/2	1,161.19	1/2	801.84	1/2	442.18	1/2	83.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,872.98	3/4	1,513.31	3/4	1,153.70	3/4	794.35	3/4	434.69	3/4	76.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,865.49	6	1,505.82	6	1,146.22	6	786.85	6	427.19	6	69.60	6	6	6	6	6	6	6	6
1/4	1,858.00	1/4	1,498.32	1/4	1,138.74	1/4	779.36	1/4	419.70	1/4	62.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,850.50	1/2	1,490.83	1/2	1,131.25	1/2	771.87	1/2	412.21	1/2	57.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.01	3/4	1,483.34	3/4	1,123.77	3/4	764.37	3/4	404.71	3/4	51.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,835.52	7	1,475.84	7	1,116.29	7	756.88	7	397.22	7	45.88	7	7	7	7	7	7	7	7
1/4	1,828.03	1/4	1,468.35	1/4	1,108.80	1/4	749.39	1/4	389.73	1/4	40.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,820.53	1/2	1,460.86	1/2	1,101.32	1/2	741.89	1/2	382.24	1/2	35.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,813.04	3/4	1,453.37	3/4	1,093.83	3/4	734.40	3/4	374.74	3/4	31.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,805.55	8	1,445.87	8	1,086.35	8	726.91	8	367.25	8	27.15	8	8	8	8	8	8	8	8
1/4	1,798.05	1/4	1,438.38	1/4	1,078.87	1/4	719.42	1/4	359.76	1/4	22.78	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,790.56	1/2	1,430.89	1/2	1,071.38	1/2	711.92	1/2	352.26	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.07	3/4	1,423.39	3/4	1,063.90	3/4	704.43	3/4	344.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,775.57	9	1,415.90	9	1,056.42	9	696.94	9	337.28	9		9	9	9	9	9	9	9	9
1/4	1,768.08	1/4	1,408.41	1/4	1,048.93	1/4	689.44	1/4	329.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,760.59	1/2	1,400.91	1/2	1,041.45	1/2	681.95	1/2	322.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.09	3/4	1,393.42	3/4	1,033.96	3/4	674.46	3/4	314.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,745.60	10	1,385.93	10	1,026.48	10	666.97	10	307.31	10		10	10	10	10	10	10	10	10
1/4	1,738.11	1/4	1,378.43	1/4	1,019.00	1/4	659.47	1/4	299.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,730.61	1/2	1,370.94	1/2	1,011.51	1/2	651.98	1/2	292.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.12	3/4	1,363.45	3/4	1,004.03	3/4	644.49	3/4	284.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,715.63	11	1,355.95	11	996.55	11	636.99	11	277.34	11		11	11	11	11	11	11	11	11
1/4	1,708.13	1/4	1,348.46	1/4	989.06	1/4	629.50	1/4	269.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.64	1/2	1,340.97	1/2	981.58	1/2	622.01	1/2	262.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.15	3/4	1,333.47	3/4	974.10	3/4	614.52	3/4	254.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 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 "HBC 304"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	4,379.94	0	4,225.81	0	4,041.79	0	3,849.77	0	3,656.96	0	3,450.43	0	3,093.25	0	2,735.01	0	2,375.99
1/4		1/4	4,379.08	1/4	4,222.07	1/4	4,037.85	1/4	3,845.76	1/4	3,652.94	1/4	3,442.98	1/4	3,085.79	1/4	2,727.53	1/4	2,368.51
1/2		1/2	4,378.23	1/2	4,218.33	1/2	4,033.90	1/2	3,841.74	1/2	3,648.93	1/2	3,435.53	1/2	3,078.32	1/2	2,720.05	1/2	2,361.03
3/4		3/4	4,377.37	3/4	4,214.59	3/4	4,029.96	3/4	3,837.72	3/4	3,644.91	3/4	3,428.09	3/4	3,070.86	3/4	2,712.58	3/4	2,353.55
1		1	4,376.51	1	4,210.85	1	4,026.01	1	3,833.70	1	3,640.89	1	3,420.64	1	3,063.39	1	2,705.10	1	2,346.07
1/4		1/4	4,374.42	1/4	4,207.09	1/4	4,022.05	1/4	3,829.69	1/4	3,636.88	1/4	3,413.19	1/4	3,055.93	1/4	2,697.62	1/4	2,338.59
1/2		1/2	4,372.33	1/2	4,203.34	1/2	4,018.09	1/2	3,825.67	1/2	3,632.86	1/2	3,405.74	1/2	3,048.47	1/2	2,690.14	1/2	2,331.11
3/4		3/4	4,370.24	3/4	4,199.58	3/4	4,014.13	3/4	3,821.65	3/4	3,628.84	3/4	3,398.30	3/4	3,041.02	3/4	2,682.66	3/4	2,323.63
2		2	4,368.15	2	4,195.82	2	4,010.17	2	3,817.64	2	3,624.83	2	3,390.85	2	3,033.56	2	2,675.18	2	2,316.15
1/4		1/4	4,365.24	1/4	4,192.05	1/4	4,006.19	1/4	3,813.62	1/4	3,620.81	1/4	3,383.40	1/4	3,026.10	1/4	2,667.70	1/4	2,308.67
1/2		1/2	4,362.32	1/2	4,188.28	1/2	4,002.21	1/2	3,809.60	1/2	3,616.79	1/2	3,375.96	1/2	3,018.64	1/2	2,660.22	1/2	2,301.19
3/4		3/4	4,359.40	3/4	4,184.51	3/4	3,998.23	3/4	3,805.59	3/4	3,612.78	3/4	3,368.51	3/4	3,011.18	3/4	2,652.74	3/4	2,293.71
3		3	4,356.48	3	4,180.74	3	3,994.26	3	3,801.57	3	3,608.76	3	3,361.06	3	3,003.72	3	2,645.26	3	2,286.23
1/4		1/4	4,352.96	1/4	4,176.95	1/4	3,990.26	1/4	3,797.55	1/4	3,604.74	1/4	3,353.61	1/4	2,996.26	1/4	2,637.79	1/4	2,278.75
1/2		1/2	4,349.44	1/2	4,173.16	1/2	3,986.27	1/2	3,793.54	1/2	3,600.72	1/2	3,346.17	1/2	2,988.81	1/2	2,630.31	1/2	2,271.27
3/4		3/4	4,345.91	3/4	4,169.37	3/4	3,982.28	3/4	3,789.52	3/4	3,596.71	3/4	3,338.72	3/4	2,981.35	3/4	2,622.83	3/4	2,263.79
4		4	4,342.39	4	4,165.58	4	3,978.28	4	3,785.50	4	3,592.69	4	3,331.27	4	2,973.89	4	2,615.35	4	2,256.31
1/4		1/4	4,338.83	1/4	4,161.78	1/4	3,974.28	1/4	3,781.49	1/4	3,588.67	1/4	3,323.82	1/4	2,966.43	1/4	2,607.87	1/4	2,248.83
1/2		1/2	4,335.26	1/2	4,157.98	1/2	3,970.27	1/2	3,777.47	1/2	3,584.66	1/2	3,316.38	1/2	2,958.97	1/2	2,600.39	1/2	2,241.35
3/4		3/4	4,331.70	3/4	4,154.17	3/4	3,966.26	3/4	3,773.45	3/4	3,580.64	3/4	3,308.93	3/4	2,951.51	3/4	2,592.91	3/4	2,233.87
5		5	4,328.13	5	4,150.37	5	3,962.25	5	3,769.43	5	3,576.62	5	3,301.48	5	2,944.06	5	2,585.43	5	2,226.39
1/4		1/4	4,324.54	1/4	4,146.55	1/4	3,958.23	1/4	3,765.42	1/4	3,572.61	1/4	3,294.05	1/4	2,936.60	1/4	2,577.95	1/4	2,218.91
1/2		1/2	4,320.96	1/2	4,142.73	1/2	3,954.21	1/2	3,761.40	1/2	3,568.59	1/2	3,286.62	1/2	2,929.14	1/2	2,570.47	1/2	2,211.43
3/4		3/4	4,317.37	3/4	4,138.91	3/4	3,950.20	3/4	3,757.38	3/4	3,564.57	3/4	3,279.19	3/4	2,921.68	3/4	2,562.99	3/4	2,203.95
6		6	4,313.78	6	4,135.09	6	3,946.18	6	3,753.37	6	3,560.56	6	3,271.76	6	2,914.22	6	2,555.51	6	2,196.47
1/4		1/4	4,310.17	1/4	4,131.25	1/4	3,942.16	1/4	3,749.35	1/4	3,556.54	1/4	3,264.32	1/4	2,906.76	1/4	2,548.03	1/4	2,188.99
1/2		1/2	4,306.56	1/2	4,127.42	1/2	3,938.14	1/2	3,745.33	1/2	3,552.52	1/2	3,256.89	1/2	2,899.31	1/2	2,540.55	1/2	2,181.51
3/4		3/4	4,302.96	3/4	4,123.58	3/4	3,934.13	3/4	3,741.32	3/4	3,548.50	3/4	3,249.46	3/4	2,891.85	3/4	2,533.07	3/4	2,174.03
7		7	4,299.35	7	4,119.75	7	3,930.11	7	3,737.30	7	3,544.49	7	3,242.03	7	2,884.39	7	2,525.59	7	2,166.55
1/4		1/4	4,295.73	1/4	4,115.88	1/4	3,926.09	1/4	3,733.28	1/4	3,540.47	1/4	3,234.60	1/4	2,876.92	1/4	2,518.11	1/4	2,159.07
1/2		1/2	4,292.11	1/2	4,112.02	1/2	3,922.08	1/2	3,729.27	1/2	3,536.45	1/2	3,227.16	1/2	2,869.46	1/2	2,510.63	1/2	2,151.59
3/4		3/4	4,288.48	3/4	4,108.15	3/4	3,918.06	3/4	3,725.25	3/4	3,532.44	3/4	3,219.73	3/4	2,861.99	3/4	2,503.15	3/4	2,144.11
8		8	4,284.86	8	4,104.28	8	3,914.04	8	3,721.23	8	3,528.42	8	3,212.30	8	2,854.52	8	2,495.67	8	2,136.63
1/4		1/4	4,281.22	1/4	4,100.40	1/4	3,910.03	1/4	3,717.21	1/4	3,524.40	1/4	3,204.87	1/4	2,847.06	1/4	2,488.19	1/4	2,129.15
1/2		1/2	4,277.59	1/2	4,096.52	1/2	3,906.01	1/2	3,713.20	1/2	3,520.39	1/2	3,197.44	1/2	2,839.59	1/2	2,480.71	1/2	2,121.67
3/4		3/4	4,273.95	3/4	4,092.64	3/4	3,901.99	3/4	3,709.18	3/4	3,516.37	3/4	3,190.01	3/4	2,832.13	3/4	2,473.23	3/4	2,114.19
9		9	4,270.31	9	4,088.76	9	3,897.98	9	3,705.16	9	3,512.35	9	3,182.57	9	2,824.66	9	2,465.75	9	2,106.71
1/4		1/4	4,266.62	1/4	4,084.86	1/4	3,893.96	1/4	3,701.15	1/4	3,508.34	1/4	3,175.14	1/4	2,817.19	1/4	2,458.27	1/4	2,099.23
1/2		1/2	4,262.92	1/2	4,080.96	1/2	3,889.94	1/2	3,697.13	1/2	3,504.32	1/2	3,167.71	1/2	2,809.73	1/2	2,450.79	1/2	2,091.75
3/4		3/4	4,259.23	3/4	4,077.06	3/4	3,885.92	3/4	3,693.11	3/4	3,500.30	3/4	3,160.28	3/4	2,802.26	3/4	2,443.31	3/4	2,084.27
10		10	4,255.54	10	4,073.17	10	3,881.91	10	3,689.10	10	3,496.29	10	3,152.85	10	2,794.80	10	2,435.83	10	2,076.79
1/4		1/4	4,251.83	1/4	4,069.25	1/4	3,877.89	1/4	3,685.08	1/4	3,492.27	1/4	3,145.41	1/4	2,787.33	1/4	2,428.35	1/4	2,069.31
1/2		1/2	4,248.12	1/2	4,065.34	1/2	3,873.87	1/2	3,681.06	1/2	3,488.25	1/2	3,137.98	1/2	2,779.86	1/2	2,420.87	1/2	2,061.83
3/4		3/4	4,244.41	3/4	4,061.42	3/4	3,869.86	3/4	3,677.05	3/4	3,484.23	3/4	3,130.55	3/4	2,772.40	3/4	2,413.39	3/4	2,054.35
11		11	4,240.71	11	4,057.51	11	3,865.84	11	3,673.03	11	3,480.22	11	3,123.12	11	2,764.93	11	2,405.91	11	2,046.87
1/4		1/4	4,236.98	1/4	4,053.58	1/4	3,861.82	1/4	3,669.01	1/4	3,472.77	1/4	3,115.65	1/4	2,757.45	1/4	2,398.43	1/4	2,039.39
1/2		1/2	4,233.26	1/2	4,049.65	1/2	3,857.81	1/2	3,665.00	1/2	3,465.32	1/2	3,108.19	1/2	2,749.97	1/2	2,390.95	1/2	2,031.91
3/4		3/4	4,229.53	3/4	4,045.72	3/4	3,853.79	3/4	3,660.98	3/4	3,457.88	3/4	3,100.72	3/4	2,742.49	3/4	2,383.47	3/4	2,024.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 304"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	2,016.95	0	1,657.81	0	1,300.16	0	951.76	0	598.85	0	239.62	0		0		0		0	
1/4	2,009.46	1/4	1,650.33	1/4	1,292.74	1/4	944.62	1/4	591.37	1/4	232.14	1/4		1/4		1/4		1/4	
1/2	2,001.98	1/2	1,642.85	1/2	1,285.32	1/2	937.47	1/2	583.88	1/2	224.65	1/2		1/2		1/2		1/2	
3/4	1,994.50	3/4	1,635.37	3/4	1,277.90	3/4	930.32	3/4	576.40	3/4	217.17	3/4		3/4		3/4		3/4	
1	1,987.02	1	1,627.89	1	1,270.48	1	923.18	1	568.92	1	209.68	1		1		1		1	
1/4	1,979.54	1/4	1,620.41	1/4	1,263.06	1/4	916.03	1/4	561.43	1/4	202.20	1/4		1/4		1/4		1/4	
1/2	1,972.05	1/2	1,612.92	1/2	1,255.64	1/2	908.88	1/2	553.95	1/2	194.72	1/2		1/2		1/2		1/2	
3/4	1,964.57	3/4	1,605.44	3/4	1,248.22	3/4	901.73	3/4	546.46	3/4	187.23	3/4		3/4		3/4		3/4	
2	1,957.09	2	1,597.96	2	1,240.80	2	894.58	2	538.98	2	179.75	2		2		2		2	
1/4	1,949.61	1/4	1,590.48	1/4	1,233.40	1/4	887.41	1/4	531.50	1/4	172.26	1/4		1/4		1/4		1/4	
1/2	1,942.13	1/2	1,583.00	1/2	1,226.00	1/2	880.23	1/2	524.01	1/2	164.78	1/2		1/2		1/2		1/2	
3/4	1,934.65	3/4	1,575.51	3/4	1,218.59	3/4	873.06	3/4	516.53	3/4	157.30	3/4		3/4		3/4		3/4	
3	1,927.16	3	1,568.03	3	1,211.19	3	865.89	3	509.04	3	149.82	3		3		3		3	
1/4	1,919.68	1/4	1,560.55	1/4	1,203.79	1/4	858.72	1/4	501.56	1/4	142.34	1/4		1/4		1/4		1/4	
1/2	1,912.20	1/2	1,553.07	1/2	1,196.39	1/2	851.55	1/2	494.08	1/2	134.86	1/2		1/2		1/2		1/2	
3/4	1,904.72	3/4	1,545.59	3/4	1,188.99	3/4	844.37	3/4	486.59	3/4	127.38	3/4		3/4		3/4		3/4	
4	1,897.24	4	1,538.10	4	1,181.58	4	837.20	4	479.11	4	119.90	4		4		4		4	
1/4	1,889.75	1/4	1,530.62	1/4	1,174.15	1/4	830.00	1/4	471.62	1/4	112.45	1/4		1/4		1/4		1/4	
1/2	1,882.27	1/2	1,523.14	1/2	1,166.72	1/2	822.80	1/2	464.14	1/2	105.00	1/2		1/2		1/2		1/2	
3/4	1,874.79	3/4	1,515.66	3/4	1,159.29	3/4	815.60	3/4	456.66	3/4	97.55	3/4		3/4		3/4		3/4	
5	1,867.31	5	1,508.18	5	1,151.86	5	808.40	5	449.17	5	90.10	5		5		5		5	
1/4	1,859.83	1/4	1,500.69	1/4	1,144.72	1/4	800.92	1/4	441.69	1/4	83.25	1/4		1/4		1/4		1/4	
1/2	1,852.34	1/2	1,493.21	1/2	1,137.57	1/2	793.44	1/2	434.20	1/2	76.41	1/2		1/2		1/2		1/2	
3/4	1,844.86	3/4	1,485.73	3/4	1,130.42	3/4	785.95	3/4	426.72	3/4	69.56	3/4		3/4		3/4		3/4	
6	1,837.38	6	1,478.25	6	1,123.28	6	778.47	6	419.24	6	62.71	6		6		6		6	
1/4	1,829.90	1/4	1,470.83	1/4	1,116.13	1/4	770.98	1/4	411.75	1/4	57.10	1/4		1/4		1/4		1/4	
1/2	1,822.42	1/2	1,463.41	1/2	1,108.99	1/2	763.50	1/2	404.27	1/2	51.49	1/2		1/2		1/2		1/2	
3/4	1,814.93	3/4	1,455.99	3/4	1,101.84	3/4	756.02	3/4	396.78	3/4	45.88	3/4		3/4		3/4		3/4	
7	1,807.45	7	1,448.57	7	1,094.69	7	748.53	7	389.30	7	40.27	7		7		7		7	
1/4	1,799.97	1/4	1,441.15	1/4	1,087.55	1/4	741.05	1/4	381.82	1/4	35.90	1/4		1/4		1/4		1/4	
1/2	1,792.49	1/2	1,433.73	1/2	1,080.40	1/2	733.56	1/2	374.33	1/2	31.53	1/2		1/2		1/2		1/2	
3/4	1,785.01	3/4	1,426.31	3/4	1,073.25	3/4	726.08	3/4	366.85	3/4	27.16	3/4		3/4		3/4		3/4	
8	1,777.53	8	1,418.89	8	1,066.11	8	718.60	8	359.36	8	22.79	8		8		8		8	
1/4	1,770.04	1/4	1,411.47	1/4	1,058.96	1/4	711.11	1/4	351.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,762.56	1/2	1,404.05	1/2	1,051.81	1/2	703.63	1/2	344.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,755.08	3/4	1,396.63	3/4	1,044.67	3/4	696.14	3/4	336.91	3/4		3/4		3/4		3/4		3/4	
9	1,747.60	9	1,389.21	9	1,037.52	9	688.66	9	329.43	9		9		9		9		9	
1/4	1,740.12	1/4	1,381.79	1/4	1,030.37	1/4	681.18	1/4	321.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,732.63	1/2	1,374.37	1/2	1,023.23	1/2	673.69	1/2	314.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,725.15	3/4	1,366.95	3/4	1,016.08	3/4	666.21	3/4	306.98	3/4		3/4		3/4		3/4		3/4	
10	1,717.67	10	1,359.53	10	1,008.93	10	658.72	10	299.49	10		10		10		10		10	
1/4	1,710.19	1/4	1,352.11	1/4	1,001.79	1/4	651.24	1/4	292.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,702.71	1/2	1,344.69	1/2	994.64	1/2	643.76	1/2	284.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,695.22	3/4	1,337.27	3/4	987.49	3/4	636.27	3/4	277.04	3/4		3/4		3/4		3/4		3/4	
11	1,687.74	11	1,329.85	11	980.35	11	628.79	11	269.56	11		11		11		11		11	
1/4	1,680.26	1/4	1,322.43	1/4	973.20	1/4	621.30	1/4	262.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,672.78	1/2	1,315.00	1/2	966.06	1/2	613.82	1/2	254.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.30	3/4	1,307.58	3/4	958.91	3/4	606.34	3/4	247.10	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/25/2013 CL - SW  
CALCULATED: 04/25/2013 CL  
PRINTED: 04/25/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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