



BARGE "HBC 312"

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	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	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"

October 10, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 312"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-09"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	5,244.78	1	4,935.27	1	4,589.45	1	4,228.54	1	3,866.14	1	3,503.74	1	3,141.34	1	2,778.94	1	2,416.46	
1/4	1/4	5,240.44	1/4	4,928.24	1/4	4,582.04	1/4	4,220.99	1/4	3,858.59	1/4	3,496.19	1/4	3,133.79	1/4	2,771.39	1/4	2,408.91	
1/2	1/2	5,236.11	1/2	4,921.21	1/2	4,574.62	1/2	4,213.44	1/2	3,851.04	1/2	3,488.64	1/2	3,126.24	1/2	2,763.84	1/2	2,401.35	
3/4	3/4	5,231.78	3/4	4,914.19	3/4	4,567.20	3/4	4,205.89	3/4	3,843.49	3/4	3,481.09	3/4	3,118.69	3/4	2,756.29	3/4	2,393.80	
2	2	5,227.44	2	4,907.16	2	4,559.79	2	4,198.34	2	3,835.94	2	3,473.54	2	3,111.14	2	2,748.74	2	2,386.25	
1/4	1/4	5,221.88	1/4	4,900.10	1/4	4,552.34	1/4	4,190.79	1/4	3,828.39	1/4	3,465.99	1/4	3,103.59	1/4	2,741.19	1/4	2,378.70	
1/2	1/2	5,216.32	1/2	4,893.04	1/2	4,544.90	1/2	4,183.24	1/2	3,820.84	1/2	3,458.44	1/2	3,096.04	1/2	2,733.64	1/2	2,371.14	
3/4	3/4	5,210.76	3/4	4,885.98	3/4	4,537.45	3/4	4,175.69	3/4	3,813.29	3/4	3,450.89	3/4	3,088.49	3/4	2,726.09	3/4	2,363.59	
3	3	5,205.19	3	4,878.93	3	4,530.01	3	4,168.14	3	3,805.74	3	3,443.34	3	3,080.94	3	2,718.54	3	2,356.04	
1/4	1/4	5,199.16	1/4	4,871.84	1/4	4,522.53	1/4	4,160.59	1/4	3,798.19	1/4	3,435.79	1/4	3,073.39	1/4	2,710.99	1/4	2,348.49	
1/2	1/2	5,193.14	1/2	4,864.75	1/2	4,515.06	1/2	4,153.04	1/2	3,790.64	1/2	3,428.24	1/2	3,065.84	1/2	2,703.44	1/2	2,340.93	
3/4	3/4	5,187.11	3/4	4,857.66	3/4	4,507.58	3/4	4,145.49	3/4	3,783.09	3/4	3,420.69	3/4	3,058.29	3/4	2,695.89	3/4	2,333.38	
4	4	5,181.08	4	4,850.57	4	4,500.10	4	4,137.94	4	3,775.54	4	3,413.14	4	3,050.74	4	2,688.34	4	2,325.83	
1/4	1/4	5,174.42	1/4	4,843.46	1/4	4,492.60	1/4	4,130.39	1/4	3,767.99	1/4	3,405.59	1/4	3,043.19	1/4	2,680.79	1/4	2,318.27	
1/2	1/2	5,167.77	1/2	4,836.34	1/2	4,485.09	1/2	4,122.84	1/2	3,760.44	1/2	3,398.04	1/2	3,035.64	1/2	2,673.24	1/2	2,310.72	
3/4	3/4	5,161.11	3/4	4,829.22	3/4	4,477.59	3/4	4,115.29	3/4	3,752.89	3/4	3,390.49	3/4	3,028.09	3/4	2,665.69	3/4	2,303.17	
5	5	5,154.46	5	4,822.10	5	4,470.08	5	4,107.74	5	3,745.34	5	3,382.94	5	3,020.54	5	2,658.14	5	2,295.62	
1/4	1/4	5,147.75	1/4	4,814.95	1/4	4,462.55	1/4	4,100.19	1/4	3,737.79	1/4	3,375.39	1/4	3,012.99	1/4	2,650.59	1/4	2,288.06	
1/2	1/2	5,141.04	1/2	4,807.81	1/2	4,455.01	1/2	4,092.64	1/2	3,730.24	1/2	3,367.84	1/2	3,005.44	1/2	2,643.04	1/2	2,280.51	
3/4	3/4	5,134.33	3/4	4,800.66	3/4	4,447.48	3/4	4,085.09	3/4	3,722.69	3/4	3,360.29	3/4	2,997.89	3/4	2,635.49	3/4	2,272.96	
6	6	5,127.62	6	4,793.51	6	4,439.94	6	4,077.54	6	3,715.14	6	3,352.74	6	2,990.34	6	2,627.94	6	2,265.40	
1/4	1/4	5,120.87	1/4	4,786.33	1/4	4,432.39	1/4	4,069.99	1/4	3,707.59	1/4	3,345.19	1/4	2,982.79	1/4	2,620.39	1/4	2,257.85	
1/2	1/2	5,114.12	1/2	4,779.16	1/2	4,424.84	1/2	4,062.44	1/2	3,700.04	1/2	3,337.64	1/2	2,975.24	1/2	2,612.83	1/2	2,250.30	
3/4	3/4	5,107.37	3/4	4,771.98	3/4	4,417.29	3/4	4,054.89	3/4	3,692.49	3/4	3,330.09	3/4	2,967.69	3/4	2,605.28	3/4	2,242.75	
7	7	5,100.63	7	4,764.80	7	4,409.74	7	4,047.34	7	3,684.94	7	3,322.54	7	2,960.14	7	2,597.73	7	2,235.19	
1/4	1/4	5,093.85	1/4	4,757.59	1/4	4,402.19	1/4	4,039.79	1/4	3,677.39	1/4	3,314.99	1/4	2,952.59	1/4	2,590.17	1/4	2,227.64	
1/2	1/2	5,087.07	1/2	4,750.39	1/2	4,394.64	1/2	4,032.24	1/2	3,669.84	1/2	3,307.44	1/2	2,945.04	1/2	2,582.62	1/2	2,220.09	
3/4	3/4	5,080.29	3/4	4,743.18	3/4	4,387.09	3/4	4,024.69	3/4	3,662.29	3/4	3,299.89	3/4	2,937.49	3/4	2,575.07	3/4	2,212.53	
8	8	5,073.51	8	4,735.97	8	4,379.54	8	4,017.14	8	3,654.74	8	3,292.34	8	2,929.94	8	2,567.52	8	2,204.98	
1/4	1/4	5,066.70	1/4	4,728.71	1/4	4,371.99	1/4	4,009.59	1/4	3,647.19	1/4	3,284.79	1/4	2,922.39	1/4	2,559.96	1/4	2,197.43	
1/2	1/2	5,059.89	1/2	4,721.44	1/2	4,364.44	1/2	4,002.04	1/2	3,639.64	1/2	3,277.24	1/2	2,914.84	1/2	2,552.41	1/2	2,189.88	
3/4	3/4	5,053.08	3/4	4,714.17	3/4	4,356.89	3/4	3,994.49	3/4	3,632.09	3/4	3,269.69	3/4	2,907.29	3/4	2,544.86	3/4	2,182.32	
9	9	5,046.27	9	4,706.91	9	4,349.34	9	3,986.94	9	3,624.54	9	3,262.14	9	2,899.74	9	2,537.31	9	2,174.77	
1/4	1/4	5,039.43	1/4	4,699.61	1/4	4,341.79	1/4	3,979.39	1/4	3,616.99	1/4	3,254.59	1/4	2,892.19	1/4	2,529.75	1/4	2,167.22	
1/2	1/2	5,032.59	1/2	4,692.31	1/2	4,334.24	1/2	3,971.84	1/2	3,609.44	1/2	3,247.04	1/2	2,884.64	1/2	2,522.20	1/2	2,159.67	
3/4	3/4	5,025.75	3/4	4,685.02	3/4	4,326.69	3/4	3,964.29	3/4	3,601.89	3/4	3,239.49	3/4	2,877.09	3/4	2,514.65	3/4	2,152.11	
10	10	5,018.91	10	4,677.72	10	4,319.14	10	3,956.74	10	3,594.34	10	3,231.94	10	2,869.54	10	2,507.09	10	2,144.56	
1/4	1/4	5,011.97	1/4	4,670.40	1/4	4,311.59	1/4	3,949.19	1/4	3,586.79	1/4	3,224.39	1/4	2,861.99	1/4	2,499.54	1/4	2,137.01	
1/2	1/2	5,005.03	1/2	4,663.07	1/2	4,304.04	1/2	3,941.64	1/2	3,579.24	1/2	3,216.84	1/2	2,854.44	1/2	2,491.99	1/2	2,129.45	
3/4	3/4	4,998.09	3/4	4,655.74	3/4	4,296.49	3/4	3,934.09	3/4	3,571.69	3/4	3,209.29	3/4	2,846.89	3/4	2,484.44	3/4	2,121.90	
11	11	4,991.15	11	4,648.42	11	4,288.94	11	3,926.54	11	3,564.14	11	3,201.74	11	2,839.34	11	2,476.88	11	2,114.35	
1/4	1/4	4,984.18	1/4	4,641.06	1/4	4,281.39	1/4	3,918.99	1/4	3,556.59	1/4	3,194.19	1/4	2,831.79	1/4	2,469.33	1/4	2,106.80	
1/2	1/2	4,977.21	1/2	4,633.71	1/2	4,273.84	1/2	3,911.44	1/2	3,549.04	1/2	3,186.64	1/2	2,824.24	1/2	2,461.78	1/2	2,099.24	
3/4	3/4	4,970.23	3/4	4,626.35	3/4	4,266.29	3/4	3,903.89	3/4	3,541.49	3/4	3,179.09	3/4	2,816.69	3/4	2,454.22	3/4	2,091.69	

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

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BARGE "HBC 312"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-09"

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	2,084.14	0	1,721.60	0	1,359.07	0	996.93	0	634.50	0	271.98	0		0		0		0	
1/4	2,076.58	1/4	1,714.05	1/4	1,351.52	1/4	989.39	1/4	626.95	1/4	264.43	1/4		1/4		1/4		1/4	
1/2	2,069.03	1/2	1,706.50	1/2	1,343.96	1/2	981.85	1/2	619.40	1/2	256.88	1/2		1/2		1/2		1/2	
3/4	2,061.48	3/4	1,698.94	3/4	1,336.41	3/4	974.31	3/4	611.85	3/4	249.33	3/4		3/4		3/4		3/4	
1	2,053.93	1	1,691.39	1	1,328.86	1	966.77	1	604.29	1	241.77	1		1		1		1	
1/4	2,046.37	1/4	1,683.84	1/4	1,321.30	1/4	959.23	1/4	596.74	1/4	234.22	1/4		1/4		1/4		1/4	
1/2	2,038.82	1/2	1,676.29	1/2	1,313.75	1/2	951.68	1/2	589.19	1/2	226.67	1/2		1/2		1/2		1/2	
3/4	2,031.27	3/4	1,668.73	3/4	1,306.20	3/4	944.14	3/4	581.64	3/4	219.12	3/4		3/4		3/4		3/4	
2	2,023.71	2	1,661.18	2	1,298.65	2	936.60	2	574.08	2	211.56	2		2		2		2	
1/4	2,016.16	1/4	1,653.63	1/4	1,291.09	1/4	929.05	1/4	566.53	1/4	204.01	1/4		1/4		1/4		1/4	
1/2	2,008.61	1/2	1,646.07	1/2	1,283.54	1/2	921.50	1/2	558.98	1/2	196.46	1/2		1/2		1/2		1/2	
3/4	2,001.06	3/4	1,638.52	3/4	1,275.99	3/4	913.95	3/4	551.43	3/4	188.91	3/4		3/4		3/4		3/4	
3	1,993.50	3	1,630.97	3	1,268.43	3	906.39	3	543.87	3	181.35	3		3		3		3	
1/4	1,985.95	1/4	1,623.42	1/4	1,260.88	1/4	898.84	1/4	536.32	1/4	173.80	1/4		1/4		1/4		1/4	
1/2	1,978.40	1/2	1,615.86	1/2	1,253.33	1/2	891.29	1/2	528.77	1/2	166.25	1/2		1/2		1/2		1/2	
3/4	1,970.85	3/4	1,608.31	3/4	1,245.78	3/4	883.74	3/4	521.22	3/4	158.70	3/4		3/4		3/4		3/4	
4	1,963.29	4	1,600.76	4	1,238.22	4	876.18	4	513.66	4	151.15	4		4		4		4	
1/4	1,955.74	1/4	1,593.21	1/4	1,230.68	1/4	868.63	1/4	506.11	1/4	143.61	1/4		1/4		1/4		1/4	
1/2	1,948.19	1/2	1,585.65	1/2	1,223.14	1/2	861.08	1/2	498.56	1/2	136.06	1/2		1/2		1/2		1/2	
3/4	1,940.63	3/4	1,578.10	3/4	1,215.60	3/4	853.53	3/4	491.01	3/4	128.52	3/4		3/4		3/4		3/4	
5	1,933.08	5	1,570.55	5	1,208.06	5	845.97	5	483.45	5	120.98	5		5		5		5	
1/4	1,925.53	1/4	1,562.99	1/4	1,200.52	1/4	838.42	1/4	475.90	1/4	113.46	1/4		1/4		1/4		1/4	
1/2	1,917.98	1/2	1,555.44	1/2	1,192.98	1/2	830.87	1/2	468.35	1/2	105.95	1/2		1/2		1/2		1/2	
3/4	1,910.42	3/4	1,547.89	3/4	1,185.44	3/4	823.32	3/4	460.80	3/4	98.43	3/4		3/4		3/4		3/4	
6	1,902.87	6	1,540.34	6	1,177.90	6	815.76	6	453.24	6	90.91	6		6		6		6	
1/4	1,895.32	1/4	1,532.78	1/4	1,170.36	1/4	808.21	1/4	445.69	1/4	83.99	1/4		1/4		1/4		1/4	
1/2	1,887.76	1/2	1,525.23	1/2	1,162.82	1/2	800.66	1/2	438.14	1/2	77.07	1/2		1/2		1/2		1/2	
3/4	1,880.21	3/4	1,517.68	3/4	1,155.28	3/4	793.11	3/4	430.59	3/4	70.15	3/4		3/4		3/4		3/4	
7	1,872.66	7	1,510.12	7	1,147.74	7	785.55	7	423.03	7	63.23	7		7		7		7	
1/4	1,865.11	1/4	1,502.57	1/4	1,140.20	1/4	778.00	1/4	415.48	1/4	57.57	1/4		1/4		1/4		1/4	
1/2	1,857.55	1/2	1,495.02	1/2	1,132.66	1/2	770.45	1/2	407.93	1/2	51.90	1/2		1/2		1/2		1/2	
3/4	1,850.00	3/4	1,487.47	3/4	1,125.12	3/4	762.90	3/4	400.38	3/4	46.24	3/4		3/4		3/4		3/4	
8	1,842.45	8	1,479.91	8	1,117.58	8	755.34	8	392.82	8	40.57	8		8		8		8	
1/4	1,834.89	1/4	1,472.36	1/4	1,110.04	1/4	747.79	1/4	385.27	1/4	36.17	1/4		1/4		1/4		1/4	
1/2	1,827.34	1/2	1,464.81	1/2	1,102.49	1/2	740.24	1/2	377.72	1/2	31.77	1/2		1/2		1/2		1/2	
3/4	1,819.79	3/4	1,457.25	3/4	1,094.95	3/4	732.69	3/4	370.17	3/4	27.36	3/4		3/4		3/4		3/4	
9	1,812.24	9	1,449.70	9	1,087.41	9	725.13	9	362.61	9	22.96	9		9		9		9	
1/4	1,804.68	1/4	1,442.15	1/4	1,079.87	1/4	717.58	1/4	355.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,797.13	1/2	1,434.60	1/2	1,072.33	1/2	710.03	1/2	347.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,789.58	3/4	1,427.04	3/4	1,064.79	3/4	702.48	3/4	339.96	3/4		3/4		3/4		3/4		3/4	
10	1,782.03	10	1,419.49	10	1,057.25	10	694.92	10	332.40	10		10		10		10		10	
1/4	1,774.47	1/4	1,411.94	1/4	1,049.71	1/4	687.37	1/4	324.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,766.92	1/2	1,404.39	1/2	1,042.17	1/2	679.82	1/2	317.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,759.37	3/4	1,396.83	3/4	1,034.63	3/4	672.27	3/4	309.75	3/4		3/4		3/4		3/4		3/4	
11	1,751.81	11	1,389.28	11	1,027.09	11	664.71	11	302.19	11		11		11		11		11	
1/4	1,744.26	1/4	1,381.73	1/4	1,019.55	1/4	657.16	1/4	294.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.71	1/2	1,374.17	1/2	1,012.01	1/2	649.61	1/2	287.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.16	3/4	1,366.62	3/4	1,004.47	3/4	642.06	3/4	279.54	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL
CALCULATED: 10/10/2013 CL
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HBC 312"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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		0	4,954.37	0	4,609.71	0	4,249.29	0	3,886.89	0	3,524.49	0	3,162.09	0	2,799.69	0	2,437.22
1/4		1/4		1/4	4,947.37	1/4	4,602.32	1/4	4,241.74	1/4	3,879.34	1/4	3,516.94	1/4	3,154.54	1/4	2,792.14	1/4	2,429.67
1/2		1/2		1/2	4,940.37	1/2	4,594.94	1/2	4,234.19	1/2	3,871.79	1/2	3,509.39	1/2	3,146.99	1/2	2,784.59	1/2	2,422.12
3/4		3/4		3/4	5,242.87	3/4	4,933.37	3/4	4,226.64	3/4	3,864.24	3/4	3,501.84	3/4	3,139.44	3/4	2,777.04	3/4	2,414.56
1		1		1	5,238.54	1	4,926.34	1	4,219.09	1	3,856.69	1	3,494.29	1	3,131.89	1	2,769.49	1	2,407.01
1/4		1/4		1/4	5,234.21	1/4	4,919.31	1/4	4,572.72	1/4	4,211.54	1/4	3,849.14	1/4	3,486.74	1/4	3,124.34	1/4	2,761.94
1/2		1/2		1/2	5,229.87	1/2	4,912.29	1/2	4,565.31	1/2	4,203.99	1/2	3,841.59	1/2	3,479.19	1/2	3,116.79	1/2	2,754.39
3/4		3/4		3/4	5,225.54	3/4	4,905.26	3/4	4,557.89	3/4	4,196.44	3/4	3,834.04	3/4	3,471.64	3/4	3,109.24	3/4	2,746.84
2		2		2	5,219.98	2	4,898.20	2	4,550.44	2	4,188.89	2	3,826.49	2	3,464.09	2	3,101.69	2	2,739.29
1/4		1/4		1/4	5,214.42	1/4	4,891.14	1/4	4,543.00	1/4	4,181.34	1/4	3,818.94	1/4	3,456.54	1/4	3,094.14	1/4	2,731.74
1/2		1/2		1/2	5,208.85	1/2	4,884.08	1/2	4,535.55	1/2	4,173.79	1/2	3,811.39	1/2	3,448.99	1/2	3,086.59	1/2	2,724.19
3/4		3/4		3/4	5,203.29	3/4	4,877.03	3/4	4,528.11	3/4	4,166.24	3/4	3,803.84	3/4	3,441.44	3/4	3,079.04	3/4	2,716.64
3		3		3	5,197.26	3	4,869.94	3	4,520.63	3	4,158.69	3	3,796.29	3	3,433.89	3	3,071.49	3	2,709.09
1/4		1/4		1/4	5,191.23	1/4	4,862.85	1/4	4,513.16	1/4	4,151.14	1/4	3,788.74	1/4	3,426.34	1/4	3,063.94	1/4	2,701.54
1/2		1/2		1/2	5,185.20	1/2	4,855.76	1/2	4,505.68	1/2	4,143.59	1/2	3,781.19	1/2	3,418.79	1/2	3,056.39	1/2	2,693.99
3/4		3/4		3/4	5,179.18	3/4	4,848.67	3/4	4,498.21	3/4	4,136.04	3/4	3,773.64	3/4	3,411.24	3/4	3,048.84	3/4	2,686.44
4		4		4	5,172.52	4	4,841.56	4	4,490.70	4	4,128.49	4	3,766.09	4	3,403.69	4	3,041.29	4	2,678.89
1/4		1/4		1/4	5,165.87	1/4	4,834.44	1/4	4,483.20	1/4	4,120.94	1/4	3,758.54	1/4	3,396.14	1/4	3,033.74	1/4	2,671.34
1/2		1/2		1/2	5,159.21	1/2	4,827.32	1/2	4,475.69	1/2	4,113.39	1/2	3,750.99	1/2	3,388.59	1/2	3,026.19	1/2	2,663.79
3/4		3/4		3/4	5,152.56	3/4	4,820.20	3/4	4,468.19	3/4	4,105.84	3/4	3,743.44	3/4	3,381.04	3/4	3,018.64	3/4	2,656.24
5		5		5	5,145.85	5	4,813.06	5	4,460.65	5	4,098.29	5	3,735.89	5	3,373.49	5	3,011.09	5	2,648.69
1/4		1/4		1/4	5,139.14	1/4	4,805.91	1/4	4,453.11	1/4	4,090.74	1/4	3,728.34	1/4	3,365.94	1/4	3,003.54	1/4	2,641.14
1/2		1/2		1/2	5,132.43	1/2	4,798.76	1/2	4,445.58	1/2	4,083.19	1/2	3,720.79	1/2	3,358.39	1/2	2,995.99	1/2	2,633.59
3/4		3/4		3/4	5,125.72	3/4	4,791.61	3/4	4,438.04	3/4	4,075.64	3/4	3,713.24	3/4	3,350.84	3/4	2,988.44	3/4	2,626.04
6		6		6	5,118.97	6	4,784.44	6	4,430.49	6	4,068.09	6	3,705.69	6	3,343.29	6	2,980.89	6	2,618.49
1/4		1/4		1/4	5,112.22	1/4	4,777.26	1/4	4,422.94	1/4	4,060.54	1/4	3,698.14	1/4	3,335.74	1/4	2,973.34	1/4	2,610.94
1/2		1/2		1/2	5,105.47	1/2	4,770.08	1/2	4,415.39	1/2	4,052.99	1/2	3,690.59	1/2	3,328.19	1/2	2,965.79	1/2	2,603.38
3/4		3/4		3/4	5,098.73	3/4	4,762.90	3/4	4,407.84	3/4	4,045.44	3/4	3,683.04	3/4	3,320.64	3/4	2,958.24	3/4	2,595.83
7		7		7	5,091.95	7	4,755.70	7	4,400.29	7	4,037.89	7	3,675.49	7	3,313.09	7	2,950.69	7	2,588.28
1/4		1/4		1/4	5,085.17	1/4	4,748.49	1/4	4,392.74	1/4	4,030.34	1/4	3,667.94	1/4	3,305.54	1/4	2,943.14	1/4	2,580.72
1/2		1/2		1/2	5,078.39	1/2	4,741.28	1/2	4,385.19	1/2	4,022.79	1/2	3,660.39	1/2	3,297.99	1/2	2,935.59	1/2	2,573.17
3/4		3/4		3/4	5,071.61	3/4	4,734.07	3/4	4,377.64	3/4	4,015.24	3/4	3,652.84	3/4	3,290.44	3/4	2,928.04	3/4	2,565.62
8		8		8	5,064.80	8	4,726.81	8	4,370.09	8	4,007.69	8	3,645.29	8	3,282.89	8	2,920.49	8	2,558.07
1/4		1/4		1/4	5,057.99	1/4	4,719.54	1/4	4,362.54	1/4	4,000.14	1/4	3,637.74	1/4	3,275.34	1/4	2,912.94	1/4	2,550.51
1/2		1/2		1/2	5,051.18	1/2	4,712.27	1/2	4,354.99	1/2	3,992.59	1/2	3,630.19	1/2	3,267.79	1/2	2,905.39	1/2	2,542.96
3/4		3/4		3/4	5,044.37	3/4	4,705.01	3/4	4,347.44	3/4	3,985.04	3/4	3,622.64	3/4	3,260.24	3/4	2,897.84	3/4	2,535.41
9		9		9	5,037.53	9	4,697.71	9	4,339.89	9	3,977.49	9	3,615.09	9	3,252.69	9	2,890.29	9	2,527.86
1/4		1/4		1/4	5,030.69	1/4	4,690.42	1/4	4,332.34	1/4	3,969.94	1/4	3,607.54	1/4	3,245.14	1/4	2,882.74	1/4	2,520.30
1/2		1/2		1/2	5,023.85	1/2	4,683.12	1/2	4,324.79	1/2	3,962.39	1/2	3,599.99	1/2	3,237.59	1/2	2,875.19	1/2	2,512.75
3/4		3/4		3/4	5,017.01	3/4	4,675.82	3/4	4,317.24	3/4	3,954.84	3/4	3,592.44	3/4	3,230.04	3/4	2,867.64	3/4	2,505.20
10		10		10	5,010.07	10	4,668.50	10	4,309.69	10	3,947.29	10	3,584.89	10	3,222.49	10	2,860.09	10	2,497.64
1/4		1/4		1/4	5,003.13	1/4	4,661.17	1/4	4,302.14	1/4	3,939.74	1/4	3,577.34	1/4	3,214.94	1/4	2,852.54	1/4	2,490.09
1/2		1/2		1/2	4,996.19	1/2	4,653.85	1/2	4,294.59	1/2	3,932.19	1/2	3,569.79	1/2	3,207.39	1/2	2,844.99	1/2	2,482.54
3/4		3/4		3/4	4,989.25	3/4	4,646.52	3/4	4,287.04	3/4	3,924.64	3/4	3,562.24	3/4	3,199.84	3/4	2,837.44	3/4	2,474.99
11		11		11	4,982.28	11	4,639.16	11	4,279.49	11	3,917.09	11	3,554.69	11	3,192.29	11	2,829.89	11	2,467.43
1/4		1/4		1/4	4,975.31	1/4	4,631.81	1/4	4,271.94	1/4	3,909.54	1/4	3,547.14	1/4	3,184.74	1/4	2,822.34	1/4	2,459.88
1/2		1/2		1/2	4,968.33	1/2	4,624.45	1/2	4,264.39	1/2	3,901.99	1/2	3,539.59	1/2	3,177.19	1/2	2,814.79	1/2	2,452.33
3/4		3/4		3/4	4,961.36	3/4	4,617.10	3/4	4,256.84	3/4	3,894.44	3/4	3,532.04	3/4	3,169.64	3/4	2,807.24	3/4	2,444.77

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 312"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,074.69	0	1,712.15	0	1,349.62	0	988.95	0	626.95	0	264.43	0		0		0		0	
1/4	2,067.13	1/4	1,704.60	1/4	1,342.07	1/4	981.45	1/4	619.40	1/4	256.88	1/4		1/4		1/4		1/4	
1/2	2,059.58	1/2	1,697.05	1/2	1,334.51	1/2	973.95	1/2	611.85	1/2	249.33	1/2		1/2		1/2		1/2	
3/4	2,052.03	3/4	1,689.49	3/4	1,326.96	3/4	966.45	3/4	604.29	3/4	241.77	3/4		3/4		3/4		3/4	
1	2,044.48	1	1,681.94	1	1,319.41	1	958.95	1	596.74	1	234.22	1		1		1		1	
1/4	2,036.92	1/4	1,674.39	1/4	1,311.85	1/4	951.45	1/4	589.19	1/4	226.67	1/4		1/4		1/4		1/4	
1/2	2,029.37	1/2	1,666.84	1/2	1,304.30	1/2	943.95	1/2	581.64	1/2	219.12	1/2		1/2		1/2		1/2	
3/4	2,021.82	3/4	1,659.28	3/4	1,296.75	3/4	936.45	3/4	574.08	3/4	211.56	3/4		3/4		3/4		3/4	
2	2,014.26	2	1,651.73	2	1,289.20	2	928.93	2	566.53	2	204.01	2		2		2		2	
1/4	2,006.71	1/4	1,644.18	1/4	1,281.64	1/4	921.42	1/4	558.98	1/4	196.46	1/4		1/4		1/4		1/4	
1/2	1,999.16	1/2	1,636.62	1/2	1,274.09	1/2	913.91	1/2	551.43	1/2	188.91	1/2		1/2		1/2		1/2	
3/4	1,991.61	3/4	1,629.07	3/4	1,266.54	3/4	906.39	3/4	543.87	3/4	181.35	3/4		3/4		3/4		3/4	
3	1,984.05	3	1,621.52	3	1,259.02	3	898.84	3	536.32	3	173.80	3		3		3		3	
1/4	1,976.50	1/4	1,613.97	1/4	1,251.51	1/4	891.29	1/4	528.77	1/4	166.25	1/4		1/4		1/4		1/4	
1/2	1,968.95	1/2	1,606.41	1/2	1,244.00	1/2	883.74	1/2	521.22	1/2	158.70	1/2		1/2		1/2		1/2	
3/4	1,961.40	3/4	1,598.86	3/4	1,236.49	3/4	876.18	3/4	513.66	3/4	151.15	3/4		3/4		3/4		3/4	
4	1,953.84	4	1,591.31	4	1,228.98	4	868.63	4	506.11	4	143.61	4		4		4		4	
1/4	1,946.29	1/4	1,583.76	1/4	1,221.48	1/4	861.08	1/4	498.56	1/4	136.06	1/4		1/4		1/4		1/4	
1/2	1,938.74	1/2	1,576.20	1/2	1,213.98	1/2	853.53	1/2	491.01	1/2	128.52	1/2		1/2		1/2		1/2	
3/4	1,931.18	3/4	1,568.65	3/4	1,206.48	3/4	845.97	3/4	483.45	3/4	120.98	3/4		3/4		3/4		3/4	
5	1,923.63	5	1,561.10	5	1,198.98	5	838.42	5	475.90	5	113.46	5		5		5		5	
1/4	1,916.08	1/4	1,553.54	1/4	1,191.48	1/4	830.87	1/4	468.35	1/4	105.95	1/4		1/4		1/4		1/4	
1/2	1,908.53	1/2	1,545.99	1/2	1,183.98	1/2	823.32	1/2	460.80	1/2	98.43	1/2		1/2		1/2		1/2	
3/4	1,900.97	3/4	1,538.44	3/4	1,176.48	3/4	815.76	3/4	453.24	3/4	90.91	3/4		3/4		3/4		3/4	
6	1,893.42	6	1,530.89	6	1,168.98	6	808.21	6	445.69	6	83.99	6		6		6		6	
1/4	1,885.87	1/4	1,523.33	1/4	1,161.48	1/4	800.66	1/4	438.14	1/4	77.07	1/4		1/4		1/4		1/4	
1/2	1,878.31	1/2	1,515.78	1/2	1,153.97	1/2	793.11	1/2	430.59	1/2	70.15	1/2		1/2		1/2		1/2	
3/4	1,870.76	3/4	1,508.23	3/4	1,146.47	3/4	785.55	3/4	423.03	3/4	63.23	3/4		3/4		3/4		3/4	
7	1,863.21	7	1,500.67	7	1,138.97	7	778.00	7	415.48	7	57.57	7		7		7		7	
1/4	1,855.66	1/4	1,493.12	1/4	1,131.47	1/4	770.45	1/4	407.93	1/4	51.90	1/4		1/4		1/4		1/4	
1/2	1,848.10	1/2	1,485.57	1/2	1,123.97	1/2	762.90	1/2	400.38	1/2	46.24	1/2		1/2		1/2		1/2	
3/4	1,840.55	3/4	1,478.02	3/4	1,116.47	3/4	755.34	3/4	392.82	3/4	40.57	3/4		3/4		3/4		3/4	
8	1,833.00	8	1,470.46	8	1,108.97	8	747.79	8	385.27	8	36.17	8		8		8		8	
1/4	1,825.44	1/4	1,462.91	1/4	1,101.47	1/4	740.24	1/4	377.72	1/4	31.77	1/4		1/4		1/4		1/4	
1/2	1,817.89	1/2	1,455.36	1/2	1,093.97	1/2	732.69	1/2	370.17	1/2	27.36	1/2		1/2		1/2		1/2	
3/4	1,810.34	3/4	1,447.80	3/4	1,086.47	3/4	725.13	3/4	362.61	3/4	22.96	3/4		3/4		3/4		3/4	
9	1,802.79	9	1,440.25	9	1,078.96	9	717.58	9	355.06	9		9		9		9		9	
1/4	1,795.23	1/4	1,432.70	1/4	1,071.46	1/4	710.03	1/4	347.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,787.68	1/2	1,425.15	1/2	1,063.96	1/2	702.48	1/2	339.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,780.13	3/4	1,417.59	3/4	1,056.46	3/4	694.92	3/4	332.40	3/4		3/4		3/4		3/4		3/4	
10	1,772.58	10	1,410.04	10	1,048.96	10	687.37	10	324.85	10		10		10		10		10	
1/4	1,765.02	1/4	1,402.49	1/4	1,041.46	1/4	679.82	1/4	317.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,757.47	1/2	1,394.94	1/2	1,033.96	1/2	672.27	1/2	309.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,749.92	3/4	1,387.38	3/4	1,026.46	3/4	664.71	3/4	302.19	3/4		3/4		3/4		3/4		3/4	
11	1,742.36	11	1,379.83	11	1,018.96	11	657.16	11	294.64	11		11		11		11		11	
1/4	1,734.81	1/4	1,372.28	1/4	1,011.46	1/4	649.61	1/4	287.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,727.26	1/2	1,364.72	1/2	1,003.95	1/2	642.06	1/2	279.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,719.71	3/4	1,357.17	3/4	996.45	3/4	634.50	3/4	271.98	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL
CALCULATED: 10/10/2013 CL
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HBC 312"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,070.60	0	1,709.11	0	1,347.63	0	986.54	0	625.15	0	263.67	0		0		0		0	
1/4	2,063.07	1/4	1,701.58	1/4	1,340.09	1/4	979.02	1/4	617.62	1/4	256.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,055.54	1/2	1,694.05	1/2	1,332.56	1/2	971.51	1/2	610.09	1/2	248.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,048.01	3/4	1,686.52	3/4	1,325.03	3/4	963.99	3/4	602.56	3/4	241.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,040.48	1	1,678.99	1	1,317.50	1	956.47	1	595.03	1	233.55	1	1	1	1	1	1	1	1
1/4	2,032.95	1/4	1,671.46	1/4	1,309.97	1/4	948.95	1/4	587.50	1/4	226.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,025.42	1/2	1,663.93	1/2	1,302.44	1/2	941.43	1/2	579.96	1/2	218.49	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,017.88	3/4	1,656.40	3/4	1,294.91	3/4	933.91	3/4	572.43	3/4	210.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,010.35	2	1,648.87	2	1,287.38	2	926.38	2	564.90	2	203.42	2	2	2	2	2	2	2	2
1/4	2,002.82	1/4	1,641.33	1/4	1,279.85	1/4	918.85	1/4	557.37	1/4	195.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,995.29	1/2	1,633.80	1/2	1,272.32	1/2	911.32	1/2	549.84	1/2	188.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,987.76	3/4	1,626.27	3/4	1,264.78	3/4	903.79	3/4	542.31	3/4	180.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,980.23	3	1,618.74	3	1,257.25	3	896.26	3	534.78	3	173.30	3	3	3	3	3	3	3	3
1/4	1,972.70	1/4	1,611.21	1/4	1,249.72	1/4	888.73	1/4	527.25	1/4	165.77	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,965.17	1/2	1,603.68	1/2	1,242.19	1/2	881.20	1/2	519.72	1/2	158.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,957.64	3/4	1,596.15	3/4	1,234.66	3/4	873.67	3/4	512.19	3/4	150.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,950.11	4	1,588.62	4	1,227.14	4	866.14	4	504.66	4	143.19	4	4	4	4	4	4	4	4
1/4	1,942.57	1/4	1,581.09	1/4	1,219.62	1/4	858.60	1/4	497.13	1/4	135.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,935.04	1/2	1,573.56	1/2	1,212.10	1/2	851.07	1/2	489.60	1/2	128.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,927.51	3/4	1,566.02	3/4	1,204.59	3/4	843.54	3/4	482.06	3/4	120.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,919.98	5	1,558.49	5	1,197.07	5	836.01	5	474.53	5	113.14	5	5	5	5	5	5	5	5
1/4	1,912.45	1/4	1,550.96	1/4	1,189.55	1/4	828.48	1/4	467.00	1/4	105.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,904.92	1/2	1,543.43	1/2	1,182.03	1/2	820.95	1/2	459.47	1/2	98.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,897.39	3/4	1,535.90	3/4	1,174.51	3/4	813.42	3/4	451.94	3/4	90.65	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,889.86	6	1,528.37	6	1,166.99	6	805.89	6	444.41	6	83.75	6	6	6	6	6	6	6	6
1/4	1,882.33	1/4	1,520.84	1/4	1,159.47	1/4	798.36	1/4	436.88	1/4	76.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,874.80	1/2	1,513.31	1/2	1,151.95	1/2	790.83	1/2	429.35	1/2	69.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,867.26	3/4	1,505.78	3/4	1,144.44	3/4	783.30	3/4	421.82	3/4	63.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,859.73	7	1,498.25	7	1,136.92	7	775.77	7	414.29	7	57.40	7	7	7	7	7	7	7	7
1/4	1,852.20	1/4	1,490.71	1/4	1,129.40	1/4	768.23	1/4	406.76	1/4	51.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,844.67	1/2	1,483.18	1/2	1,121.88	1/2	760.70	1/2	399.23	1/2	46.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,837.14	3/4	1,475.65	3/4	1,114.36	3/4	753.17	3/4	391.69	3/4	40.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,829.61	8	1,468.12	8	1,106.84	8	745.64	8	384.16	8	36.07	8	8	8	8	8	8	8	8
1/4	1,822.08	1/4	1,460.59	1/4	1,099.32	1/4	738.11	1/4	376.63	1/4	31.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,814.55	1/2	1,453.06	1/2	1,091.81	1/2	730.58	1/2	369.10	1/2	27.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,807.02	3/4	1,445.53	3/4	1,084.29	3/4	723.05	3/4	361.57	3/4	22.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,799.49	9	1,438.00	9	1,076.77	9	715.52	9	354.04	9	18.50	9	9	9	9	9	9	9	9
1/4	1,791.95	1/4	1,430.47	1/4	1,069.25	1/4	707.99	1/4	346.51	1/4	14.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,784.42	1/2	1,422.94	1/2	1,061.73	1/2	700.46	1/2	338.98	1/2	9.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,776.89	3/4	1,415.40	3/4	1,054.21	3/4	692.93	3/4	331.45	3/4	5.33	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,769.36	10	1,407.87	10	1,046.69	10	685.40	10	323.92	10	0.94	10	10	10	10	10	10	10	10
1/4	1,761.83	1/4	1,400.34	1/4	1,039.17	1/4	677.87	1/4	316.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,754.30	1/2	1,392.81	1/2	1,031.66	1/2	670.33	1/2	308.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,746.77	3/4	1,385.28	3/4	1,024.14	3/4	662.80	3/4	301.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,739.24	11	1,377.75	11	1,016.62	11	655.27	11	293.79	11		11	11	11	11	11	11	11	11
1/4	1,731.71	1/4	1,370.22	1/4	1,009.10	1/4	647.74	1/4	286.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,724.18	1/2	1,362.69	1/2	1,001.58	1/2	640.21	1/2	278.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,716.64	3/4	1,355.16	3/4	994.06	3/4	632.68	3/4	271.20	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: 10/09/2013 CL
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BARGE "HBC 312"

2 STBD 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	4,913.35	0	4,568.82	0	4,209.03	0	3,847.58	0	3,486.14	0	3,124.69	0	2,763.25	0	2,401.73
1/4	1/4	5,215.08	1/4	4,906.37	1/4	4,561.45	1/4	4,201.50	1/4	3,840.05	1/4	3,478.61	1/4	3,117.16	1/4	2,755.72	1/4	2,394.20	
1/2	1/2	5,210.76	1/2	4,899.36	1/2	4,554.05	1/2	4,193.97	1/2	3,832.52	1/2	3,471.08	1/2	3,109.63	1/2	2,748.19	1/2	2,386.66	
3/4	3/4	5,206.44	3/4	4,892.35	3/4	4,546.66	3/4	4,186.44	3/4	3,824.99	3/4	3,463.55	3/4	3,102.10	3/4	2,740.66	3/4	2,379.13	
1	1	5,202.11	1	4,885.34	1	4,539.26	1	4,178.91	1	3,817.46	1	3,456.02	1	3,094.57	1	2,733.13	1	2,371.60	
1/4	1/4	5,197.79	1/4	4,878.33	1/4	4,531.87	1/4	4,171.38	1/4	3,809.93	1/4	3,448.49	1/4	3,087.04	1/4	2,725.60	1/4	2,364.06	
1/2	1/2	5,192.24	1/2	4,871.29	1/2	4,524.44	1/2	4,163.85	1/2	3,802.40	1/2	3,440.96	1/2	3,079.51	1/2	2,718.07	1/2	2,356.53	
3/4	3/4	5,186.70	3/4	4,864.25	3/4	4,517.01	3/4	4,156.32	3/4	3,794.87	3/4	3,433.43	3/4	3,071.98	3/4	2,710.54	3/4	2,349.00	
2	2	5,181.15	2	4,857.21	2	4,509.59	2	4,148.79	2	3,787.34	2	3,425.90	2	3,064.45	2	2,703.01	2	2,341.47	
1/4	1/4	5,175.60	1/4	4,850.17	1/4	4,502.16	1/4	4,141.26	1/4	3,779.81	1/4	3,418.37	1/4	3,056.92	1/4	2,695.48	1/4	2,333.93	
1/2	1/2	5,169.59	1/2	4,843.10	1/2	4,494.71	1/2	4,133.73	1/2	3,772.28	1/2	3,410.84	1/2	3,049.39	1/2	2,687.95	1/2	2,326.40	
3/4	3/4	5,163.57	3/4	4,836.03	3/4	4,487.25	3/4	4,126.20	3/4	3,764.75	3/4	3,403.31	3/4	3,041.86	3/4	2,680.42	3/4	2,318.87	
3	3	5,157.56	3	4,828.96	3	4,479.80	3	4,118.67	3	3,757.22	3	3,395.78	3	3,034.33	3	2,672.89	3	2,311.33	
1/4	1/4	5,151.55	1/4	4,821.89	1/4	4,472.34	1/4	4,111.14	1/4	3,749.69	1/4	3,388.25	1/4	3,026.80	1/4	2,665.36	1/4	2,303.80	
1/2	1/2	5,144.91	1/2	4,814.79	1/2	4,464.85	1/2	4,103.61	1/2	3,742.16	1/2	3,380.72	1/2	3,019.27	1/2	2,657.83	1/2	2,296.27	
3/4	3/4	5,138.27	3/4	4,807.69	3/4	4,457.37	3/4	4,096.08	3/4	3,734.63	3/4	3,373.19	3/4	3,011.74	3/4	2,650.30	3/4	2,288.74	
4	4	5,131.63	4	4,800.60	4	4,449.88	4	4,088.55	4	3,727.10	4	3,365.66	4	3,004.21	4	2,642.77	4	2,281.20	
1/4	1/4	5,125.00	1/4	4,793.50	1/4	4,442.40	1/4	4,081.02	1/4	3,719.57	1/4	3,358.13	1/4	2,996.68	1/4	2,635.24	1/4	2,273.67	
1/2	1/2	5,118.30	1/2	4,786.37	1/2	4,434.88	1/2	4,073.49	1/2	3,712.04	1/2	3,350.60	1/2	2,989.15	1/2	2,627.71	1/2	2,266.14	
3/4	3/4	5,111.61	3/4	4,779.24	3/4	4,427.37	3/4	4,065.96	3/4	3,704.51	3/4	3,343.07	3/4	2,981.62	3/4	2,620.18	3/4	2,258.60	
5	5	5,104.92	5	4,772.11	5	4,419.86	5	4,058.43	5	3,696.98	5	3,335.54	5	2,974.09	5	2,612.65	5	2,251.07	
1/4	1/4	5,098.23	1/4	4,764.98	1/4	4,412.34	1/4	4,050.90	1/4	3,689.45	1/4	3,328.01	1/4	2,966.56	1/4	2,605.12	1/4	2,243.54	
1/2	1/2	5,091.50	1/2	4,757.82	1/2	4,404.81	1/2	4,043.37	1/2	3,681.92	1/2	3,320.48	1/2	2,959.03	1/2	2,597.58	1/2	2,236.01	
3/4	3/4	5,084.76	3/4	4,750.66	3/4	4,397.28	3/4	4,035.84	3/4	3,674.39	3/4	3,312.95	3/4	2,951.50	3/4	2,590.05	3/4	2,228.47	
6	6	5,078.03	6	4,743.50	6	4,389.75	6	4,028.31	6	3,666.86	6	3,305.42	6	2,943.97	6	2,582.52	6	2,220.94	
1/4	1/4	5,071.30	1/4	4,736.34	1/4	4,382.22	1/4	4,020.78	1/4	3,659.33	1/4	3,297.89	1/4	2,936.44	1/4	2,574.99	1/4	2,213.41	
1/2	1/2	5,064.54	1/2	4,729.16	1/2	4,374.69	1/2	4,013.25	1/2	3,651.80	1/2	3,290.36	1/2	2,928.91	1/2	2,567.45	1/2	2,205.87	
3/4	3/4	5,057.78	3/4	4,721.97	3/4	4,367.16	3/4	4,005.72	3/4	3,644.27	3/4	3,282.83	3/4	2,921.38	3/4	2,559.92	3/4	2,198.34	
7	7	5,051.02	7	4,714.78	7	4,359.63	7	3,998.19	7	3,636.74	7	3,275.30	7	2,913.85	7	2,552.39	7	2,190.81	
1/4	1/4	5,044.25	1/4	4,707.59	1/4	4,352.10	1/4	3,990.66	1/4	3,629.21	1/4	3,267.77	1/4	2,906.32	1/4	2,544.85	1/4	2,183.28	
1/2	1/2	5,037.46	1/2	4,700.34	1/2	4,344.57	1/2	3,983.13	1/2	3,621.68	1/2	3,260.24	1/2	2,898.79	1/2	2,537.32	1/2	2,175.74	
3/4	3/4	5,030.67	3/4	4,693.10	3/4	4,337.04	3/4	3,975.60	3/4	3,614.15	3/4	3,252.71	3/4	2,891.26	3/4	2,529.79	3/4	2,168.21	
8	8	5,023.88	8	4,685.85	8	4,329.51	8	3,968.07	8	3,606.62	8	3,245.18	8	2,883.73	8	2,522.26	8	2,160.68	
1/4	1/4	5,017.08	1/4	4,678.60	1/4	4,321.98	1/4	3,960.54	1/4	3,599.09	1/4	3,237.65	1/4	2,876.20	1/4	2,514.72	1/4	2,153.14	
1/2	1/2	5,010.26	1/2	4,671.32	1/2	4,314.45	1/2	3,953.01	1/2	3,591.56	1/2	3,230.12	1/2	2,868.67	1/2	2,507.19	1/2	2,145.61	
3/4	3/4	5,003.44	3/4	4,664.05	3/4	4,306.92	3/4	3,945.48	3/4	3,584.03	3/4	3,222.59	3/4	2,861.14	3/4	2,499.66	3/4	2,138.08	
9	9	4,996.62	9	4,656.77	9	4,299.39	9	3,937.95	9	3,576.50	9	3,215.06	9	2,853.61	9	2,492.12	9	2,130.54	
1/4	1/4	4,989.80	1/4	4,649.49	1/4	4,291.86	1/4	3,930.42	1/4	3,568.97	1/4	3,207.53	1/4	2,846.08	1/4	2,484.59	1/4	2,123.01	
1/2	1/2	4,982.87	1/2	4,642.18	1/2	4,284.33	1/2	3,922.88	1/2	3,561.44	1/2	3,200.00	1/2	2,838.55	1/2	2,477.06	1/2	2,115.48	
3/4	3/4	4,975.95	3/4	4,634.88	3/4	4,276.80	3/4	3,915.35	3/4	3,553.91	3/4	3,192.47	3/4	2,831.02	3/4	2,469.53	3/4	2,107.95	
10	10	4,969.03	10	4,627.57	10	4,269.27	10	3,907.82	10	3,546.38	10	3,184.94	10	2,823.49	10	2,461.99	10	2,100.41	
1/4	1/4	4,962.10	1/4	4,620.26	1/4	4,261.74	1/4	3,900.29	1/4	3,538.85	1/4	3,177.41	1/4	2,815.96	1/4	2,454.46	1/4	2,092.88	
1/2	1/2	4,955.15	1/2	4,612.93	1/2	4,254.21	1/2	3,892.76	1/2	3,531.32	1/2	3,169.87	1/2	2,808.43	1/2	2,446.93	1/2	2,085.35	
3/4	3/4	4,948.20	3/4	4,605.59	3/4	4,246.68	3/4	3,885.23	3/4	3,523.79	3/4	3,162.34	3/4	2,800.90	3/4	2,439.39	3/4	2,077.81	
11	11	4,941.25	11	4,598.25	11	4,239.15	11	3,877.70	11	3,516.26	11	3,154.81	11	2,793.37	11	2,431.86	11	2,070.28	
1/4	1/4	4,934.29	1/4	4,590.92	1/4	4,231.62	1/4	3,870.17	1/4	3,508.73	1/4	3,147.28	1/4	2,785.84	1/4	2,424.33	1/4	2,062.75	
1/2	1/2	4,927.31	1/2	4,583.55	1/2	4,224.09	1/2	3,862.64	1/2	3,501.20	1/2	3,139.75	1/2	2,778.31	1/2	2,416.79	1/2	2,055.22	
3/4	3/4	4,920.33	3/4	4,576.18	3/4	4,216.56	3/4	3,855.11	3/4	3,493.67	3/4	3,132.22	3/4	2,770.78	3/4	2,409.26	3/4	2,047.68	

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'-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 312"

2 STBD 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,032.62	1/4	1,671.04	1/4	1,309.46	1/4	961.57	1/4	602.70	1/4	241.14	1/4		1/4		1/4		1/4	
1/2	2,025.08	1/2	1,663.50	1/2	1,301.93	1/2	954.38	1/2	595.17	1/2	233.60	1/2		1/2		1/2		1/2	
3/4	2,017.55	3/4	1,655.97	3/4	1,294.39	3/4	947.19	3/4	587.64	3/4	226.07	3/4		3/4		3/4		3/4	
1	2,010.02	1	1,648.44	1	1,286.86	1	940.00	1	580.10	1	218.54	1		1		1		1	
1/4	2,002.49	1/4	1,640.91	1/4	1,279.33	1/4	932.81	1/4	572.57	1/4	211.01	1/4		1/4		1/4		1/4	
1/2	1,994.95	1/2	1,633.37	1/2	1,271.79	1/2	925.61	1/2	565.04	1/2	203.47	1/2		1/2		1/2		1/2	
3/4	1,987.42	3/4	1,625.84	3/4	1,264.26	3/4	918.41	3/4	557.51	3/4	195.94	3/4		3/4		3/4		3/4	
2	1,979.89	2	1,618.31	2	1,256.73	2	911.21	2	549.97	2	188.41	2		2		2		2	
1/4	1,972.35	1/4	1,610.77	1/4	1,249.20	1/4	904.01	1/4	542.44	1/4	180.88	1/4		1/4		1/4		1/4	
1/2	1,964.82	1/2	1,603.24	1/2	1,241.99	1/2	896.47	1/2	534.91	1/2	173.34	1/2		1/2		1/2		1/2	
3/4	1,957.29	3/4	1,595.71	3/4	1,234.79	3/4	888.94	3/4	527.38	3/4	165.81	3/4		3/4		3/4		3/4	
3	1,949.76	3	1,588.18	3	1,227.59	3	881.41	3	519.84	3	158.28	3		3		3		3	
1/4	1,942.22	1/4	1,580.64	1/4	1,220.39	1/4	873.88	1/4	512.31	1/4	150.75	1/4		1/4		1/4		1/4	
1/2	1,934.69	1/2	1,573.11	1/2	1,213.20	1/2	866.34	1/2	504.78	1/2	143.23	1/2		1/2		1/2		1/2	
3/4	1,927.16	3/4	1,565.58	3/4	1,206.01	3/4	858.81	3/4	497.25	3/4	135.71	3/4		3/4		3/4		3/4	
4	1,919.62	4	1,558.04	4	1,198.82	4	851.28	4	489.71	4	128.18	4		4		4		4	
1/4	1,912.09	1/4	1,550.51	1/4	1,191.63	1/4	843.74	1/4	482.18	1/4	120.66	1/4		1/4		1/4		1/4	
1/2	1,904.56	1/2	1,542.98	1/2	1,184.44	1/2	836.21	1/2	474.65	1/2	113.16	1/2		1/2		1/2		1/2	
3/4	1,897.02	3/4	1,535.45	3/4	1,177.25	3/4	828.68	3/4	467.11	3/4	105.67	3/4		3/4		3/4		3/4	
5	1,889.49	5	1,527.91	5	1,170.06	5	821.15	5	459.58	5	98.17	5		5		5		5	
1/4	1,881.96	1/4	1,520.38	1/4	1,162.87	1/4	813.61	1/4	452.05	1/4	90.67	1/4		1/4		1/4		1/4	
1/2	1,874.43	1/2	1,512.85	1/2	1,155.68	1/2	806.08	1/2	444.52	1/2	83.77	1/2		1/2		1/2		1/2	
3/4	1,866.89	3/4	1,505.31	3/4	1,148.49	3/4	798.55	3/4	436.98	3/4	76.87	3/4		3/4		3/4		3/4	
6	1,859.36	6	1,497.78	6	1,141.30	6	791.02	6	429.45	6	69.97	6		6		6		6	
1/4	1,851.83	1/4	1,490.25	1/4	1,134.11	1/4	783.48	1/4	421.92	1/4	63.06	1/4		1/4		1/4		1/4	
1/2	1,844.29	1/2	1,482.72	1/2	1,126.92	1/2	775.95	1/2	414.39	1/2	57.41	1/2		1/2		1/2		1/2	
3/4	1,836.76	3/4	1,475.18	3/4	1,119.73	3/4	768.42	3/4	406.85	3/4	51.77	3/4		3/4		3/4		3/4	
7	1,829.23	7	1,467.65	7	1,112.54	7	760.89	7	399.32	7	46.12	7		7		7		7	
1/4	1,821.70	1/4	1,460.12	1/4	1,105.35	1/4	753.35	1/4	391.79	1/4	40.47	1/4		1/4		1/4		1/4	
1/2	1,814.16	1/2	1,452.58	1/2	1,098.17	1/2	745.82	1/2	384.26	1/2	36.08	1/2		1/2		1/2		1/2	
3/4	1,806.63	3/4	1,445.05	3/4	1,090.98	3/4	738.29	3/4	376.72	3/4	31.68	3/4		3/4		3/4		3/4	
8	1,799.10	8	1,437.52	8	1,083.79	8	730.76	8	369.19	8	27.29	8		8		8		8	
1/4	1,791.56	1/4	1,429.99	1/4	1,076.60	1/4	723.22	1/4	361.66	1/4	22.90	1/4		1/4		1/4		1/4	
1/2	1,784.03	1/2	1,422.45	1/2	1,069.41	1/2	715.69	1/2	354.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,776.50	3/4	1,414.92	3/4	1,062.22	3/4	708.16	3/4	346.59	3/4		3/4		3/4		3/4		3/4	
9	1,768.97	9	1,407.39	9	1,055.03	9	700.63	9	339.06	9		9		9		9		9	
1/4	1,761.43	1/4	1,399.85	1/4	1,047.84	1/4	693.09	1/4	331.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,753.90	1/2	1,392.32	1/2	1,040.65	1/2	685.56	1/2	324.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.37	3/4	1,384.79	3/4	1,033.46	3/4	678.03	3/4	316.46	3/4		3/4		3/4		3/4		3/4	
10	1,738.83	10	1,377.25	10	1,026.27	10	670.49	10	308.93	10		10		10		10		10	
1/4	1,731.30	1/4	1,369.72	1/4	1,019.08	1/4	662.96	1/4	301.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,723.77	1/2	1,362.19	1/2	1,011.89	1/2	655.43	1/2	293.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.24	3/4	1,354.66	3/4	1,004.70	3/4	647.90	3/4	286.33	3/4		3/4		3/4		3/4		3/4	
11	1,708.70	11	1,347.12	11	997.51	11	640.36	11	278.80	11		11		11		11		11	
1/4	1,701.17	1/4	1,339.59	1/4	990.32	1/4	632.83	1/4	271.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,693.64	1/2	1,332.06	1/2	983.13	1/2	625.30	1/2	263.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,686.10	3/4	1,324.52	3/4	975.95	3/4	617.77	3/4	256.20	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL
CALCULATED: 10/10/2013 CL
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HBC 312"

3 PORT 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	4,263.04	0	4,078.65	0	3,886.02	0	3,692.42	0	3,491.95	0	3,133.93	0	2,774.65	0	2,414.73
1/4		1/4		1/4	4,259.30	1/4	4,074.71	1/4	3,881.99	1/4	3,688.39	1/4	3,484.49	1/4	3,126.45	1/4	2,767.15	1/4	2,407.24
1/2		1/2	4,410.46	1/2	4,255.56	1/2	4,070.76	1/2	3,877.96	1/2	3,684.35	1/2	3,477.02	1/2	3,118.96	1/2	2,759.65	1/2	2,399.74
3/4		3/4	4,409.59	3/4	4,251.81	3/4	4,066.80	3/4	3,873.92	3/4	3,680.32	3/4	3,469.56	3/4	3,111.48	3/4	2,752.15	3/4	2,392.24
1		1	4,408.72	1	4,248.05	1	4,062.84	1	3,869.89	1	3,676.29	1	3,462.09	1	3,103.99	1	2,744.65	1	2,384.74
1/4		1/4	4,407.85	1/4	4,244.29	1/4	4,058.87	1/4	3,865.86	1/4	3,672.25	1/4	3,454.62	1/4	3,096.51	1/4	2,737.16	1/4	2,377.24
1/2		1/2	4,406.98	1/2	4,240.54	1/2	4,054.91	1/2	3,861.82	1/2	3,668.22	1/2	3,447.16	1/2	3,089.02	1/2	2,729.66	1/2	2,369.74
3/4		3/4	4,404.88	3/4	4,236.76	3/4	4,050.94	3/4	3,857.79	3/4	3,664.19	3/4	3,439.69	3/4	3,081.54	3/4	2,722.16	3/4	2,362.24
2		2	4,402.77	2	4,232.99	2	4,046.96	2	3,853.76	2	3,660.15	2	3,432.23	2	3,074.05	2	2,714.66	2	2,354.74
1/4		1/4	4,400.66	1/4	4,229.22	1/4	4,042.98	1/4	3,849.72	1/4	3,656.12	1/4	3,424.76	1/4	3,066.57	1/4	2,707.17	1/4	2,347.25
1/2		1/2	4,398.56	1/2	4,225.45	1/2	4,039.00	1/2	3,845.69	1/2	3,652.09	1/2	3,417.29	1/2	3,059.08	1/2	2,699.67	1/2	2,339.75
3/4		3/4	4,395.62	3/4	4,221.66	3/4	4,035.01	3/4	3,841.66	3/4	3,648.05	3/4	3,409.83	3/4	3,051.60	3/4	2,692.17	3/4	2,332.25
3		3	4,392.69	3	4,217.87	3	4,031.01	3	3,837.62	3	3,644.02	3	3,402.36	3	3,044.12	3	2,684.67	3	2,324.75
1/4		1/4	4,389.76	1/4	4,214.08	1/4	4,027.02	1/4	3,833.59	1/4	3,639.99	1/4	3,394.90	1/4	3,036.63	1/4	2,677.18	1/4	2,317.25
1/2		1/2	4,386.82	1/2	4,210.29	1/2	4,023.03	1/2	3,829.56	1/2	3,635.95	1/2	3,387.43	1/2	3,029.15	1/2	2,669.68	1/2	2,309.75
3/4		3/4	4,383.29	3/4	4,206.49	3/4	4,019.02	3/4	3,825.52	3/4	3,631.92	3/4	3,379.96	3/4	3,021.66	3/4	2,662.18	3/4	2,302.25
4		4	4,379.75	4	4,202.68	4	4,015.01	4	3,821.49	4	3,627.89	4	3,372.50	4	3,014.18	4	2,654.68	4	2,294.75
1/4		1/4	4,376.21	1/4	4,198.88	1/4	4,011.00	1/4	3,817.46	1/4	3,623.85	1/4	3,365.03	1/4	3,006.69	1/4	2,647.19	1/4	2,287.26
1/2		1/2	4,372.67	1/2	4,195.08	1/2	4,006.99	1/2	3,813.42	1/2	3,619.82	1/2	3,357.57	1/2	2,999.21	1/2	2,639.69	1/2	2,279.76
3/4		3/4	4,369.09	3/4	4,191.26	3/4	4,002.97	3/4	3,809.39	3/4	3,615.79	3/4	3,350.10	3/4	2,991.72	3/4	2,632.19	3/4	2,272.26
5		5	4,365.51	5	4,187.44	5	3,998.94	5	3,805.36	5	3,611.75	5	3,342.64	5	2,984.24	5	2,624.70	5	2,264.76
1/4		1/4	4,361.93	1/4	4,183.62	1/4	3,994.92	1/4	3,801.32	1/4	3,607.72	1/4	3,335.17	1/4	2,976.76	1/4	2,617.20	1/4	2,257.26
1/2		1/2	4,358.34	1/2	4,179.80	1/2	3,990.89	1/2	3,797.29	1/2	3,603.69	1/2	3,327.70	1/2	2,969.27	1/2	2,609.70	1/2	2,249.76
3/4		3/4	4,354.74	3/4	4,175.96	3/4	3,986.86	3/4	3,793.26	3/4	3,599.65	3/4	3,320.25	3/4	2,961.79	3/4	2,602.20	3/4	2,242.26
6		6	4,351.13	6	4,172.12	6	3,982.83	6	3,789.22	6	3,595.62	6	3,312.80	6	2,954.30	6	2,594.70	6	2,234.77
1/4		1/4	4,347.53	1/4	4,168.29	1/4	3,978.79	1/4	3,785.19	1/4	3,591.59	1/4	3,305.35	1/4	2,946.82	1/4	2,587.20	1/4	2,227.27
1/2		1/2	4,343.92	1/2	4,164.45	1/2	3,974.76	1/2	3,781.16	1/2	3,587.55	1/2	3,297.90	1/2	2,939.33	1/2	2,579.71	1/2	2,219.77
3/4		3/4	4,340.30	3/4	4,160.60	3/4	3,970.73	3/4	3,777.12	3/4	3,583.52	3/4	3,290.45	3/4	2,931.85	3/4	2,572.21	3/4	2,212.27
7		7	4,336.68	7	4,156.75	7	3,966.69	7	3,773.09	7	3,579.49	7	3,283.00	7	2,924.36	7	2,564.71	7	2,204.77
1/4		1/4	4,333.05	1/4	4,152.90	1/4	3,962.66	1/4	3,769.06	1/4	3,575.45	1/4	3,275.55	1/4	2,916.88	1/4	2,557.21	1/4	2,197.27
1/2		1/2	4,329.43	1/2	4,149.04	1/2	3,958.63	1/2	3,765.02	1/2	3,571.42	1/2	3,268.10	1/2	2,909.39	1/2	2,549.71	1/2	2,189.77
3/4		3/4	4,325.79	3/4	4,145.16	3/4	3,954.59	3/4	3,760.99	3/4	3,567.39	3/4	3,260.65	3/4	2,901.91	3/4	2,542.21	3/4	2,182.27
8		8	4,322.15	8	4,141.28	8	3,950.56	8	3,756.96	8	3,563.35	8	3,253.20	8	2,894.43	8	2,534.71	8	2,174.78
1/4		1/4	4,318.52	1/4	4,137.40	1/4	3,946.53	1/4	3,752.92	1/4	3,559.32	1/4	3,245.75	1/4	2,886.94	1/4	2,527.21	1/4	2,167.28
1/2		1/2	4,314.88	1/2	4,133.51	1/2	3,942.49	1/2	3,748.89	1/2	3,555.29	1/2	3,238.30	1/2	2,879.46	1/2	2,519.72	1/2	2,159.78
3/4		3/4	4,311.22	3/4	4,129.62	3/4	3,938.46	3/4	3,744.86	3/4	3,551.25	3/4	3,230.85	3/4	2,871.97	3/4	2,512.22	3/4	2,152.28
9		9	4,307.57	9	4,125.72	9	3,934.43	9	3,740.82	9	3,547.22	9	3,223.40	9	2,864.49	9	2,504.72	9	2,144.78
1/4		1/4	4,303.91	1/4	4,121.82	1/4	3,930.39	1/4	3,736.79	1/4	3,543.19	1/4	3,215.95	1/4	2,857.00	1/4	2,497.22	1/4	2,137.28
1/2		1/2	4,300.26	1/2	4,117.92	1/2	3,926.36	1/2	3,732.76	1/2	3,539.15	1/2	3,208.50	1/2	2,849.52	1/2	2,489.72	1/2	2,129.78
3/4		3/4	4,296.55	3/4	4,114.01	3/4	3,922.33	3/4	3,728.72	3/4	3,535.12	3/4	3,201.05	3/4	2,842.03	3/4	2,482.22	3/4	2,122.28
10		10	4,292.84	10	4,110.09	10	3,918.29	10	3,724.69	10	3,531.09	10	3,193.60	10	2,834.55	10	2,474.72	10	2,114.79
1/4		1/4	4,289.13	1/4	4,106.18	1/4	3,914.26	1/4	3,720.66	1/4	3,527.05	1/4	3,186.15	1/4	2,827.07	1/4	2,467.23	1/4	2,107.29
1/2		1/2	4,285.42	1/2	4,102.26	1/2	3,910.23	1/2	3,716.62	1/2	3,523.02	1/2	3,178.70	1/2	2,819.58	1/2	2,459.73	1/2	2,099.79
3/4		3/4	4,281.70	3/4	4,098.33	3/4	3,906.19	3/4	3,712.59	3/4	3,518.99	3/4	3,171.25	3/4	2,812.10	3/4	2,452.23	3/4	2,092.29
11		11	4,277.97	11	4,094.40	11	3,902.16	11	3,708.56	11	3,514.95	11	3,163.80	11	2,804.61	11	2,444.73	11	2,084.79
1/4		1/4	4,274.25	1/4	4,090.47	1/4	3,898.12	1/4	3,704.52	1/4	3,510.92	1/4	3,156.35	1/4	2,797.13	1/4	2,437.23	1/4	2,077.29
1/2		1/2	4,270.53	1/2	4,086.54	1/2	3,894.09	1/2	3,700.49	1/2	3,506.89	1/2	3,148.90	1/2	2,789.64	1/2	2,429.73	1/2	2,069.79
3/4		3/4	4,266.78	3/4	4,082.60	3/4	3,890.06	3/4	3,696.45	3/4	3,499.42	3/4	3,141.41	3/4	2,782.14	3/4	2,422.23	3/4	2,062.30

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 312"

3 PORT 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	2,054.80	0	1,694.78	0	1,334.76	0	975.04	0	615.11	0	255.10	0		0		0		0	
1/4	2,047.30	1/4	1,687.28	1/4	1,327.26	1/4	967.55	1/4	607.61	1/4	247.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,039.80	1/2	1,679.78	1/2	1,319.76	1/2	960.05	1/2	600.11	1/2	240.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,032.30	3/4	1,672.28	3/4	1,312.26	3/4	952.56	3/4	592.61	3/4	232.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,024.80	1	1,664.78	1	1,304.76	1	945.07	1	585.11	1	225.10	1	1	1	1	1	1	1	1
1/4	2,017.30	1/4	1,657.28	1/4	1,297.26	1/4	937.58	1/4	577.61	1/4	217.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,009.80	1/2	1,649.78	1/2	1,289.76	1/2	930.09	1/2	570.11	1/2	210.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,002.30	3/4	1,642.28	3/4	1,282.26	3/4	922.60	3/4	562.61	3/4	202.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,994.80	2	1,634.78	2	1,274.76	2	915.10	2	555.11	2	195.10	2	2	2	2	2	2	2	2
1/4	1,987.30	1/4	1,627.28	1/4	1,267.26	1/4	907.61	1/4	547.61	1/4	187.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.80	1/2	1,619.78	1/2	1,259.76	1/2	900.11	1/2	540.11	1/2	180.10	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.30	3/4	1,612.28	3/4	1,252.26	3/4	892.61	3/4	532.61	3/4	172.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,964.80	3	1,604.78	3	1,244.76	3	885.11	3	525.11	3	165.10	3	3	3	3	3	3	3	3
1/4	1,957.29	1/4	1,597.28	1/4	1,237.26	1/4	877.61	1/4	517.61	1/4	157.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,949.79	1/2	1,589.78	1/2	1,229.76	1/2	870.11	1/2	510.11	1/2	150.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.29	3/4	1,582.27	3/4	1,222.26	3/4	862.61	3/4	502.61	3/4	142.62	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,934.79	4	1,574.77	4	1,214.76	4	855.11	4	495.11	4	135.13	4	4	4	4	4	4	4	4
1/4	1,927.29	1/4	1,567.27	1/4	1,207.26	1/4	847.61	1/4	487.61	1/4	127.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.79	1/2	1,559.77	1/2	1,199.77	1/2	840.11	1/2	480.11	1/2	120.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.29	3/4	1,552.27	3/4	1,192.28	3/4	832.61	3/4	472.61	3/4	112.68	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,904.79	5	1,544.77	5	1,184.78	5	825.11	5	465.10	5	105.22	5	5	5	5	5	5	5	5
1/4	1,897.29	1/4	1,537.27	1/4	1,177.29	1/4	817.61	1/4	457.60	1/4	97.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.79	1/2	1,529.77	1/2	1,169.80	1/2	810.11	1/2	450.11	1/2	90.29	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.29	3/4	1,522.27	3/4	1,162.31	3/4	802.61	3/4	442.60	3/4	83.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,874.79	6	1,514.77	6	1,154.82	6	795.11	6	435.10	6	76.54	6	6	6	6	6	6	6	6
1/4	1,867.29	1/4	1,507.27	1/4	1,147.33	1/4	787.61	1/4	427.60	1/4	69.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.79	1/2	1,499.77	1/2	1,139.84	1/2	780.11	1/2	420.10	1/2	62.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.29	3/4	1,492.27	3/4	1,132.35	3/4	772.61	3/4	412.60	3/4	57.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,844.79	7	1,484.77	7	1,124.86	7	765.11	7	405.10	7	51.55	7	7	7	7	7	7	7	7
1/4	1,837.29	1/4	1,477.27	1/4	1,117.37	1/4	757.61	1/4	397.60	1/4	45.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.79	1/2	1,469.77	1/2	1,109.87	1/2	750.11	1/2	390.10	1/2	40.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,822.29	3/4	1,462.27	3/4	1,102.38	3/4	742.61	3/4	382.60	3/4	35.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,814.79	8	1,454.77	8	1,094.89	8	735.11	8	375.10	8	31.55	8	8	8	8	8	8	8	8
1/4	1,807.29	1/4	1,447.27	1/4	1,087.40	1/4	727.61	1/4	367.60	1/4	27.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,799.79	1/2	1,439.77	1/2	1,079.91	1/2	720.11	1/2	360.10	1/2	22.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,792.29	3/4	1,432.27	3/4	1,072.42	3/4	712.61	3/4	352.60	3/4	18.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,784.79	9	1,424.77	9	1,064.93	9	705.11	9	345.10	9	14.04	9	9	9	9	9	9	9	9
1/4	1,777.29	1/4	1,417.27	1/4	1,057.44	1/4	697.61	1/4	337.60	1/4	9.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,769.78	1/2	1,409.77	1/2	1,049.95	1/2	690.11	1/2	330.10	1/2	5.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,762.28	3/4	1,402.27	3/4	1,042.46	3/4	682.61	3/4	322.60	3/4	0.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,754.78	10	1,394.76	10	1,034.96	10	675.11	10	315.10	10	0.54	10	10	10	10	10	10	10	10
1/4	1,747.28	1/4	1,387.26	1/4	1,027.47	1/4	667.61	1/4	307.60	1/4	0.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,739.78	1/2	1,379.76	1/2	1,019.98	1/2	660.11	1/2	300.10	1/2	0.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,732.28	3/4	1,372.26	3/4	1,012.49	3/4	652.61	3/4	292.60	3/4	0.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,724.78	11	1,364.76	11	1,005.00	11	645.11	11	285.10	11	0.04	11	11	11	11	11	11	11	11
1/4	1,717.28	1/4	1,357.26	1/4	997.51	1/4	637.61	1/4	277.60	1/4	0.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,709.78	1/2	1,349.76	1/2	990.02	1/2	630.11	1/2	270.10	1/2	0.30	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,702.28	3/4	1,342.26	3/4	982.53	3/4	622.61	3/4	262.60	3/4	0.92	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: 10/09/2013 CL
CALCULATED: 10/10/2013 CL
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "HBC 312"

3 STBD 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
					4,231.07		4,047.19		3,855.19		3,662.31		3,459.13		3,101.85		2,743.49		2,384.34
1/4	1/4	1/4	4,381.54	1/4	4,227.35	1/4	4,043.26	1/4	3,851.17	1/4	3,658.29	1/4	3,451.68	1/4	3,094.38	1/4	2,736.01	1/4	2,376.86
1/2	1/2	1/2	4,380.68	1/2	4,223.60	1/2	4,039.31	1/2	3,847.16	1/2	3,654.27	1/2	3,444.23	1/2	3,086.91	1/2	2,728.52	1/2	2,369.37
3/4	3/4	3/4	4,379.82	3/4	4,219.86	3/4	4,035.37	3/4	3,843.14	3/4	3,650.25	3/4	3,436.78	3/4	3,079.44	3/4	2,721.04	3/4	2,361.89
1	1	1	4,378.97	1	4,216.12	1	4,031.42	1	3,839.12	1	3,646.24	1	3,429.33	1	3,071.97	1	2,713.56	1	2,354.41
1/4	1/4	1/4	4,378.11	1/4	4,212.38	1/4	4,027.47	1/4	3,835.10	1/4	3,642.22	1/4	3,421.88	1/4	3,064.50	1/4	2,706.08	1/4	2,346.93
1/2	1/2	1/2	4,376.02	1/2	4,208.62	1/2	4,023.51	1/2	3,831.08	1/2	3,638.20	1/2	3,414.43	1/2	3,057.04	1/2	2,698.60	1/2	2,339.44
3/4	3/4	3/4	4,373.93	3/4	4,204.86	3/4	4,019.55	3/4	3,827.06	3/4	3,634.18	3/4	3,406.98	3/4	3,049.58	3/4	2,691.12	3/4	2,331.96
2	2	2	4,371.84	2	4,201.11	2	4,015.59	2	3,823.05	2	3,630.16	2	3,399.53	2	3,042.12	2	2,683.64	2	2,324.48
1/4	1/4	1/4	4,369.75	1/4	4,197.35	1/4	4,011.62	1/4	3,819.03	1/4	3,626.14	1/4	3,392.08	1/4	3,034.66	1/4	2,676.15	1/4	2,316.99
1/2	1/2	1/2	4,366.83	1/2	4,193.58	1/2	4,007.64	1/2	3,815.01	1/2	3,622.13	1/2	3,384.63	1/2	3,027.20	1/2	2,668.67	1/2	2,309.51
3/4	3/4	3/4	4,363.91	3/4	4,189.80	3/4	4,003.67	3/4	3,810.99	3/4	3,618.11	3/4	3,377.18	3/4	3,019.74	3/4	2,661.19	3/4	2,302.03
3	3	3	4,360.99	3	4,186.03	3	3,999.69	3	3,806.97	3	3,614.09	3	3,369.73	3	3,012.28	3	2,653.71	3	2,294.54
1/4	1/4	1/4	4,358.07	1/4	4,182.26	1/4	3,995.71	1/4	3,802.95	1/4	3,610.07	1/4	3,362.28	1/4	3,004.81	1/4	2,646.23	1/4	2,287.06
1/2	1/2	1/2	4,354.55	1/2	4,178.47	1/2	3,991.71	1/2	3,798.93	1/2	3,606.05	1/2	3,354.83	1/2	2,997.35	1/2	2,638.75	1/2	2,279.58
3/4	3/4	3/4	4,351.02	3/4	4,174.68	3/4	3,987.72	3/4	3,794.92	3/4	3,602.03	3/4	3,347.38	3/4	2,989.89	3/4	2,631.27	3/4	2,272.10
4	4	4	4,347.50	4	4,170.89	4	3,983.72	4	3,790.90	4	3,598.01	4	3,339.93	4	2,982.43	4	2,623.79	4	2,264.61
1/4	1/4	1/4	4,343.97	1/4	4,167.10	1/4	3,979.73	1/4	3,786.88	1/4	3,594.00	1/4	3,332.48	1/4	2,974.97	1/4	2,616.30	1/4	2,257.13
1/2	1/2	1/2	4,340.41	1/2	4,163.29	1/2	3,975.72	1/2	3,782.86	1/2	3,589.98	1/2	3,325.03	1/2	2,967.51	1/2	2,608.82	1/2	2,249.65
3/4	3/4	3/4	4,336.84	3/4	4,159.49	3/4	3,971.71	3/4	3,778.84	3/4	3,585.96	3/4	3,317.58	3/4	2,960.05	3/4	2,601.34	3/4	2,242.16
5	5	5	4,333.28	5	4,155.68	5	3,967.70	5	3,774.82	5	3,581.94	5	3,310.13	5	2,952.59	5	2,593.86	5	2,234.68
1/4	1/4	1/4	4,329.71	1/4	4,151.88	1/4	3,963.69	1/4	3,770.81	1/4	3,577.92	1/4	3,302.68	1/4	2,945.13	1/4	2,586.38	1/4	2,227.20
1/2	1/2	1/2	4,326.12	1/2	4,148.06	1/2	3,959.67	1/2	3,766.79	1/2	3,573.90	1/2	3,295.25	1/2	2,937.66	1/2	2,578.90	1/2	2,219.72
3/4	3/4	3/4	4,322.53	3/4	4,144.24	3/4	3,955.65	3/4	3,762.77	3/4	3,569.89	3/4	3,287.81	3/4	2,930.20	3/4	2,571.41	3/4	2,212.23
6	6	6	4,318.94	6	4,140.41	6	3,951.63	6	3,758.75	6	3,565.87	6	3,280.38	6	2,922.74	6	2,563.93	6	2,204.75
1/4	1/4	1/4	4,315.35	1/4	4,136.59	1/4	3,947.62	1/4	3,754.73	1/4	3,561.85	1/4	3,272.94	1/4	2,915.28	1/4	2,556.45	1/4	2,197.27
1/2	1/2	1/2	4,311.74	1/2	4,132.76	1/2	3,943.60	1/2	3,750.71	1/2	3,557.83	1/2	3,265.51	1/2	2,907.82	1/2	2,548.96	1/2	2,189.78
3/4	3/4	3/4	4,308.13	3/4	4,128.92	3/4	3,939.58	3/4	3,746.70	3/4	3,553.81	3/4	3,258.07	3/4	2,900.36	3/4	2,541.48	3/4	2,182.30
7	7	7	4,304.53	7	4,125.08	7	3,935.56	7	3,742.68	7	3,549.79	7	3,250.64	7	2,892.90	7	2,534.00	7	2,174.82
1/4	1/4	1/4	4,300.92	1/4	4,121.25	1/4	3,931.54	1/4	3,738.66	1/4	3,545.78	1/4	3,243.21	1/4	2,885.44	1/4	2,526.51	1/4	2,167.34
1/2	1/2	1/2	4,297.29	1/2	4,117.38	1/2	3,927.52	1/2	3,734.64	1/2	3,541.76	1/2	3,235.77	1/2	2,877.97	1/2	2,519.03	1/2	2,159.85
3/4	3/4	3/4	4,293.67	3/4	4,113.51	3/4	3,923.51	3/4	3,730.62	3/4	3,537.74	3/4	3,228.34	3/4	2,870.50	3/4	2,511.55	3/4	2,152.37
8	8	8	4,290.05	8	4,109.64	8	3,919.49	8	3,726.60	8	3,533.72	8	3,220.90	8	2,863.03	8	2,504.07	8	2,144.89
1/4	1/4	1/4	4,286.42	1/4	4,105.78	1/4	3,915.47	1/4	3,722.59	1/4	3,529.70	1/4	3,213.47	1/4	2,855.56	1/4	2,496.58	1/4	2,137.40
1/2	1/2	1/2	4,282.78	1/2	4,101.89	1/2	3,911.45	1/2	3,718.57	1/2	3,525.68	1/2	3,206.03	1/2	2,848.09	1/2	2,489.10	1/2	2,129.92
3/4	3/4	3/4	4,279.14	3/4	4,098.01	3/4	3,907.43	3/4	3,714.55	3/4	3,521.67	3/4	3,198.60	3/4	2,840.62	3/4	2,481.62	3/4	2,122.44
9	9	9	4,275.50	9	4,094.13	9	3,903.41	9	3,710.53	9	3,517.65	9	3,191.16	9	2,833.16	9	2,474.13	9	2,114.96
1/4	1/4	1/4	4,271.86	1/4	4,090.24	1/4	3,899.39	1/4	3,706.51	1/4	3,513.63	1/4	3,183.73	1/4	2,825.69	1/4	2,466.65	1/4	2,107.47
1/2	1/2	1/2	4,268.17	1/2	4,086.34	1/2	3,895.38	1/2	3,702.49	1/2	3,509.61	1/2	3,176.29	1/2	2,818.22	1/2	2,459.17	1/2	2,099.99
3/4	3/4	3/4	4,264.48	3/4	4,082.44	3/4	3,891.36	3/4	3,698.47	3/4	3,505.59	3/4	3,168.86	3/4	2,810.75	3/4	2,451.69	3/4	2,092.51
10	10	10	4,260.78	10	4,078.54	10	3,887.34	10	3,694.46	10	3,501.57	10	3,161.43	10	2,803.28	10	2,444.20	10	2,085.02
1/4	1/4	1/4	4,257.09	1/4	4,074.65	1/4	3,883.32	1/4	3,690.44	1/4	3,497.55	1/4	3,153.99	1/4	2,795.81	1/4	2,436.72	1/4	2,077.54
1/2	1/2	1/2	4,253.38	1/2	4,070.73	1/2	3,879.30	1/2	3,686.42	1/2	3,493.54	1/2	3,146.56	1/2	2,788.34	1/2	2,429.24	1/2	2,070.06
3/4	3/4	3/4	4,249.67	3/4	4,066.82	3/4	3,875.28	3/4	3,682.40	3/4	3,489.52	3/4	3,139.12	3/4	2,780.87	3/4	2,421.75	3/4	2,062.58
11	11	11	4,245.96	11	4,062.90	11	3,871.27	11	3,678.38	11	3,485.50	11	3,131.69	11	2,773.41	11	2,414.27	11	2,055.09
1/4	1/4	1/4	4,242.25	1/4	4,058.99	1/4	3,867.25	1/4	3,674.36	1/4	3,481.48	1/4	3,124.25	1/4	2,765.94	1/4	2,406.79	1/4	2,047.61
1/2	1/2	1/2	4,238.52	1/2	4,055.05	1/2	3,863.23	1/2	3,670.35	1/2	3,474.03	1/2	3,116.78	1/2	2,758.45	1/2	2,399.31	1/2	2,040.13
3/4	3/4	3/4	4,234.80	3/4	4,051.12	3/4	3,859.21	3/4	3,666.33	3/4	3,466.58	3/4	3,109.32	3/4	2,750.97	3/4	2,391.82	3/4	2,032.64

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO 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 312"

3 STBD 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	2,025.16	0	1,665.90	0	1,308.06	0	959.26	0	606.55	0	247.19	0		0		0		0	
1/4	2,017.68	1/4	1,658.42	1/4	1,300.64	1/4	952.11	1/4	599.07	1/4	239.71	1/4		1/4		1/4		1/4	
1/2	2,010.19	1/2	1,650.93	1/2	1,293.21	1/2	944.96	1/2	591.58	1/2	232.22	1/2		1/2		1/2		1/2	
3/4	2,002.71	3/4	1,643.45	3/4	1,285.79	3/4	937.81	3/4	584.09	3/4	224.73	3/4		3/4		3/4		3/4	
1	1,995.22	1	1,635.96	1	1,278.37	1	930.66	1	576.61	1	217.25	1		1		1		1	
1/4	1,987.74	1/4	1,628.48	1/4	1,270.95	1/4	923.51	1/4	569.12	1/4	209.76	1/4		1/4		1/4		1/4	
1/2	1,980.25	1/2	1,620.99	1/2	1,263.52	1/2	916.36	1/2	561.63	1/2	202.27	1/2		1/2		1/2		1/2	
3/4	1,972.77	3/4	1,613.51	3/4	1,256.10	3/4	909.21	3/4	554.15	3/4	194.79	3/4		3/4		3/4		3/4	
2	1,965.29	2	1,606.02	2	1,248.68	2	902.06	2	546.66	2	187.30	2		2		2		2	
1/4	1,957.80	1/4	1,598.54	1/4	1,241.25	1/4	894.90	1/4	539.17	1/4	179.81	1/4		1/4		1/4		1/4	
1/2	1,950.32	1/2	1,591.06	1/2	1,233.85	1/2	887.73	1/2	531.69	1/2	172.33	1/2		1/2		1/2		1/2	
3/4	1,942.83	3/4	1,583.57	3/4	1,226.44	3/4	880.55	3/4	524.20	3/4	164.84	3/4		3/4		3/4		3/4	
3	1,935.35	3	1,576.09	3	1,219.03	3	873.38	3	516.71	3	157.36	3		3		3		3	
1/4	1,927.86	1/4	1,568.60	1/4	1,211.63	1/4	866.20	1/4	509.23	1/4	149.87	1/4		1/4		1/4		1/4	
1/2	1,920.38	1/2	1,561.12	1/2	1,204.22	1/2	859.03	1/2	501.74	1/2	142.39	1/2		1/2		1/2		1/2	
3/4	1,912.89	3/4	1,553.63	3/4	1,196.82	3/4	851.86	3/4	494.25	3/4	134.91	3/4		3/4		3/4		3/4	
4	1,905.41	4	1,546.15	4	1,189.42	4	844.68	4	486.77	4	127.42	4		4		4		4	
1/4	1,897.92	1/4	1,538.66	1/4	1,182.01	1/4	837.51	1/4	479.28	1/4	119.94	1/4		1/4		1/4		1/4	
1/2	1,890.44	1/2	1,531.18	1/2	1,174.58	1/2	830.30	1/2	471.79	1/2	112.49	1/2		1/2		1/2		1/2	
3/4	1,882.95	3/4	1,523.69	3/4	1,167.15	3/4	823.10	3/4	464.31	3/4	105.04	3/4		3/4		3/4		3/4	
5	1,875.47	5	1,516.21	5	1,159.72	5	815.90	5	456.82	5	97.59	5		5		5		5	
1/4	1,867.99	1/4	1,508.72	1/4	1,152.28	1/4	808.70	1/4	449.33	1/4	90.13	1/4		1/4		1/4		1/4	
1/2	1,860.50	1/2	1,501.24	1/2	1,145.13	1/2	801.21	1/2	441.85	1/2	83.28	1/2		1/2		1/2		1/2	
3/4	1,853.02	3/4	1,493.76	3/4	1,137.98	3/4	793.72	3/4	434.36	3/4	76.44	3/4		3/4		3/4		3/4	
6	1,845.53	6	1,486.27	6	1,130.84	6	786.24	6	426.87	6	69.59	6		6		6		6	
1/4	1,838.05	1/4	1,478.79	1/4	1,123.69	1/4	778.75	1/4	419.39	1/4	62.74	1/4		1/4		1/4		1/4	
1/2	1,830.56	1/2	1,471.36	1/2	1,116.54	1/2	771.26	1/2	411.90	1/2	57.12	1/2		1/2		1/2		1/2	
3/4	1,823.08	3/4	1,463.94	3/4	1,109.39	3/4	763.78	3/4	404.41	3/4	51.51	3/4		3/4		3/4		3/4	
7	1,815.59	7	1,456.52	7	1,102.24	7	756.29	7	396.93	7	45.90	7		7		7		7	
1/4	1,808.11	1/4	1,449.09	1/4	1,095.09	1/4	748.80	1/4	389.44	1/4	40.29	1/4		1/4		1/4		1/4	
1/2	1,800.62	1/2	1,441.67	1/2	1,087.94	1/2	741.31	1/2	381.95	1/2	35.92	1/2		1/2		1/2		1/2	
3/4	1,793.14	3/4	1,434.25	3/4	1,080.79	3/4	733.83	3/4	374.47	3/4	31.54	3/4		3/4		3/4		3/4	
8	1,785.66	8	1,426.83	8	1,073.64	8	726.34	8	366.98	8	27.17	8		8		8		8	
1/4	1,778.17	1/4	1,419.40	1/4	1,066.49	1/4	718.85	1/4	359.49	1/4	22.80	1/4		1/4		1/4		1/4	
1/2	1,770.69	1/2	1,411.98	1/2	1,059.34	1/2	711.37	1/2	352.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,763.20	3/4	1,404.56	3/4	1,052.20	3/4	703.88	3/4	344.52	3/4		3/4		3/4		3/4		3/4	
9	1,755.72	9	1,397.13	9	1,045.05	9	696.39	9	337.03	9		9		9		9		9	
1/4	1,748.23	1/4	1,389.71	1/4	1,037.90	1/4	688.91	1/4	329.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.75	1/2	1,382.29	1/2	1,030.75	1/2	681.42	1/2	322.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,733.26	3/4	1,374.87	3/4	1,023.60	3/4	673.93	3/4	314.57	3/4		3/4		3/4		3/4		3/4	
10	1,725.78	10	1,367.44	10	1,016.45	10	666.45	10	307.09	10		10		10		10		10	
1/4	1,718.29	1/4	1,360.02	1/4	1,009.30	1/4	658.96	1/4	299.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.81	1/2	1,352.60	1/2	1,002.15	1/2	651.47	1/2	292.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,703.32	3/4	1,345.17	3/4	995.00	3/4	643.99	3/4	284.63	3/4		3/4		3/4		3/4		3/4	
11	1,695.84	11	1,337.75	11	987.85	11	636.50	11	277.14	11		11		11		11		11	
1/4	1,688.36	1/4	1,330.33	1/4	980.70	1/4	629.01	1/4	269.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.87	1/2	1,322.91	1/2	973.55	1/2	621.53	1/2	262.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.39	3/4	1,315.48	3/4	966.41	3/4	614.04	3/4	254.68	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/09/2013 CL
CALCULATED: 10/10/2013 CL
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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