



BARGE "HBC 310"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	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
1 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
2 PORT	- 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
2 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
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

(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"

July 18, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HBC 310"

1 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	4,944.64	0	4,599.04	0	4,238.11	0	3,875.54	0	3,512.97	0	3,150.39	0	2,787.82	0	2,425.17
1/4		1/4	5,247.29	1/4	4,937.64	1/4	4,591.65	1/4	4,230.56	1/4	3,867.99	1/4	3,505.41	1/4	3,142.84	1/4	2,780.27	1/4	2,417.62
1/2		1/2	5,242.96	1/2	4,930.61	1/2	4,584.23	1/2	4,223.01	1/2	3,860.43	1/2	3,497.86	1/2	3,135.29	1/2	2,772.71	1/2	2,410.06
3/4		3/4	5,238.62	3/4	4,923.57	3/4	4,576.81	3/4	4,215.45	3/4	3,852.88	3/4	3,490.31	3/4	3,127.73	3/4	2,765.16	3/4	2,402.50
1		1	5,234.29	1	4,916.54	1	4,569.39	1	4,207.90	1	3,845.33	1	3,482.75	1	3,120.18	1	2,757.61	1	2,394.95
1/4		1/4	5,229.95	1/4	4,909.51	1/4	4,561.98	1/4	4,200.35	1/4	3,837.77	1/4	3,475.20	1/4	3,112.63	1/4	2,750.05	1/4	2,387.39
1/2		1/2	5,224.39	1/2	4,902.45	1/2	4,554.53	1/2	4,192.79	1/2	3,830.22	1/2	3,467.65	1/2	3,105.07	1/2	2,742.50	1/2	2,379.84
3/4		3/4	5,218.82	3/4	4,895.39	3/4	4,547.08	3/4	4,185.24	3/4	3,822.67	3/4	3,460.09	3/4	3,097.52	3/4	2,734.95	3/4	2,372.28
2		2	5,213.25	2	4,888.33	2	4,539.63	2	4,177.68	2	3,815.11	2	3,452.54	2	3,089.97	2	2,727.39	2	2,364.72
1/4		1/4	5,207.69	1/4	4,881.27	1/4	4,532.18	1/4	4,170.13	1/4	3,807.56	1/4	3,444.99	1/4	3,082.41	1/4	2,719.84	1/4	2,357.17
1/2		1/2	5,201.66	1/2	4,874.17	1/2	4,524.70	1/2	4,162.58	1/2	3,800.00	1/2	3,437.43	1/2	3,074.86	1/2	2,712.29	1/2	2,349.61
3/4		3/4	5,195.63	3/4	4,867.08	3/4	4,517.22	3/4	4,155.02	3/4	3,792.45	3/4	3,429.88	3/4	3,067.31	3/4	2,704.73	3/4	2,342.05
3		3	5,189.59	3	4,859.99	3	4,509.74	3	4,147.47	3	3,784.90	3	3,422.32	3	3,059.75	3	2,697.18	3	2,334.50
1/4		1/4	5,183.56	1/4	4,852.90	1/4	4,502.26	1/4	4,139.92	1/4	3,777.34	1/4	3,414.77	1/4	3,052.20	1/4	2,689.63	1/4	2,326.94
1/2		1/2	5,176.90	1/2	4,845.78	1/2	4,494.75	1/2	4,132.36	1/2	3,769.79	1/2	3,407.22	1/2	3,044.64	1/2	2,682.07	1/2	2,319.38
3/4		3/4	5,170.25	3/4	4,838.66	3/4	4,487.25	3/4	4,124.81	3/4	3,762.24	3/4	3,399.66	3/4	3,037.09	3/4	2,674.52	3/4	2,311.83
4		4	5,163.59	4	4,831.54	4	4,479.74	4	4,117.26	4	3,754.68	4	3,392.11	4	3,029.54	4	2,666.96	4	2,304.27
1/4		1/4	5,156.93	1/4	4,824.42	1/4	4,472.23	1/4	4,109.70	1/4	3,747.13	1/4	3,384.56	1/4	3,021.98	1/4	2,659.41	1/4	2,296.71
1/2		1/2	5,150.22	1/2	4,817.26	1/2	4,464.69	1/2	4,102.15	1/2	3,739.58	1/2	3,377.00	1/2	3,014.43	1/2	2,651.86	1/2	2,289.16
3/4		3/4	5,143.51	3/4	4,810.11	3/4	4,457.14	3/4	4,094.59	3/4	3,732.02	3/4	3,369.45	3/4	3,006.88	3/4	2,644.30	3/4	2,281.60
5		5	5,136.79	5	4,802.96	5	4,449.60	5	4,087.04	5	3,724.47	5	3,361.90	5	2,999.32	5	2,636.75	5	2,274.05
1/4		1/4	5,130.08	1/4	4,795.81	1/4	4,442.06	1/4	4,079.49	1/4	3,716.91	1/4	3,354.34	1/4	2,991.77	1/4	2,629.20	1/4	2,266.49
1/2		1/2	5,123.33	1/2	4,788.63	1/2	4,434.51	1/2	4,071.93	1/2	3,709.36	1/2	3,346.79	1/2	2,984.22	1/2	2,621.64	1/2	2,258.93
3/4		3/4	5,116.58	3/4	4,781.45	3/4	4,426.95	3/4	4,064.38	3/4	3,701.81	3/4	3,339.23	3/4	2,976.66	3/4	2,614.08	3/4	2,251.38
6		6	5,109.82	6	4,774.27	6	4,419.40	6	4,056.83	6	3,694.25	6	3,331.68	6	2,969.11	6	2,606.53	6	2,243.82
1/4		1/4	5,103.07	1/4	4,767.09	1/4	4,411.85	1/4	4,049.27	1/4	3,686.70	1/4	3,324.13	1/4	2,961.55	1/4	2,598.97	1/4	2,236.26
1/2		1/2	5,096.29	1/2	4,759.88	1/2	4,404.29	1/2	4,041.72	1/2	3,679.15	1/2	3,316.57	1/2	2,954.00	1/2	2,591.41	1/2	2,228.71
3/4		3/4	5,089.51	3/4	4,752.67	3/4	4,396.74	3/4	4,034.17	3/4	3,671.59	3/4	3,309.02	3/4	2,946.45	3/4	2,583.86	3/4	2,221.15
7		7	5,082.72	7	4,745.45	7	4,389.19	7	4,026.61	7	3,664.04	7	3,301.47	7	2,938.89	7	2,576.30	7	2,213.59
1/4		1/4	5,075.94	1/4	4,738.24	1/4	4,381.63	1/4	4,019.06	1/4	3,656.49	1/4	3,293.91	1/4	2,931.34	1/4	2,568.75	1/4	2,206.04
1/2		1/2	5,069.13	1/2	4,730.97	1/2	4,374.08	1/2	4,011.51	1/2	3,648.93	1/2	3,286.36	1/2	2,923.79	1/2	2,561.19	1/2	2,198.48
3/4		3/4	5,062.31	3/4	4,723.70	3/4	4,366.52	3/4	4,003.95	3/4	3,641.38	3/4	3,278.81	3/4	2,916.23	3/4	2,553.63	3/4	2,190.93
8		8	5,055.50	8	4,716.43	8	4,358.97	8	3,996.40	8	3,633.83	8	3,271.25	8	2,908.68	8	2,546.08	8	2,183.37
1/4		1/4	5,048.69	1/4	4,709.16	1/4	4,351.42	1/4	3,988.84	1/4	3,626.27	1/4	3,263.70	1/4	2,901.13	1/4	2,538.52	1/4	2,175.81
1/2		1/2	5,041.85	1/2	4,701.87	1/2	4,343.86	1/2	3,981.29	1/2	3,618.72	1/2	3,256.15	1/2	2,893.57	1/2	2,530.96	1/2	2,168.26
3/4		3/4	5,035.00	3/4	4,694.57	3/4	4,336.31	3/4	3,973.74	3/4	3,611.16	3/4	3,248.59	3/4	2,886.02	3/4	2,523.41	3/4	2,160.70
9		9	5,028.16	9	4,687.27	9	4,328.76	9	3,966.18	9	3,603.61	9	3,241.04	9	2,878.47	9	2,515.85	9	2,153.14
1/4		1/4	5,021.32	1/4	4,679.97	1/4	4,321.20	1/4	3,958.63	1/4	3,596.06	1/4	3,233.48	1/4	2,870.91	1/4	2,508.29	1/4	2,145.59
1/2		1/2	5,014.37	1/2	4,672.64	1/2	4,313.65	1/2	3,951.08	1/2	3,588.50	1/2	3,225.93	1/2	2,863.36	1/2	2,500.74	1/2	2,138.03
3/4		3/4	5,007.43	3/4	4,665.31	3/4	4,306.10	3/4	3,943.52	3/4	3,580.95	3/4	3,218.38	3/4	2,855.80	3/4	2,493.18	3/4	2,130.47
10		10	5,000.48	10	4,657.98	10	4,298.54	10	3,935.97	10	3,573.40	10	3,210.82	10	2,848.25	10	2,485.62	10	2,122.92
1/4		1/4	4,993.54	1/4	4,650.65	1/4	4,290.99	1/4	3,928.42	1/4	3,565.84	1/4	3,203.27	1/4	2,840.70	1/4	2,478.07	1/4	2,115.36
1/2		1/2	4,986.57	1/2	4,643.29	1/2	4,283.43	1/2	3,920.86	1/2	3,558.29	1/2	3,195.72	1/2	2,833.14	1/2	2,470.51	1/2	2,107.80
3/4		3/4	4,979.59	3/4	4,635.93	3/4	4,275.88	3/4	3,913.31	3/4	3,550.74	3/4	3,188.16	3/4	2,825.59	3/4	2,462.96	3/4	2,100.25
11		11	4,972.62	11	4,628.57	11	4,268.33	11	3,905.75	11	3,543.18	11	3,180.61	11	2,818.04	11	2,455.40	11	2,092.69
1/4		1/4	4,965.64	1/4	4,621.21	1/4	4,260.77	1/4	3,898.20	1/4	3,535.63	1/4	3,173.06	1/4	2,810.48	1/4	2,447.84	1/4	2,085.14
1/2		1/2	4,958.64	1/2	4,613.82	1/2	4,253.22	1/2	3,890.65	1/2	3,528.07	1/2	3,165.50	1/2	2,802.93	1/2	2,440.29	1/2	2,077.58
3/4		3/4	4,951.64	3/4	4,606.43	3/4	4,245.67	3/4	3,883.09	3/4	3,520.52	3/4	3,157.95	3/4	2,795.38	3/4	2,432.73	3/4	2,070.02

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

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BARGE "HBC 310"

1 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	2,062.47	0	1,699.76	0	1,337.05	0	974.77	0	612.14	0	249.45	0		0		0		0	
1/4	2,054.91	1/4	1,692.20	1/4	1,329.50	1/4	967.23	1/4	604.58	1/4	241.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,047.35	1/2	1,684.65	1/2	1,321.94	1/2	959.68	1/2	597.03	1/2	234.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,039.80	3/4	1,677.09	3/4	1,314.38	3/4	952.14	3/4	589.47	3/4	226.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,032.24	1	1,669.53	1	1,306.83	1	944.59	1	581.91	1	219.22	1	1	1	1	1	1	1	1
1/4	2,024.68	1/4	1,661.98	1/4	1,299.27	1/4	937.05	1/4	574.36	1/4	211.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,017.13	1/2	1,654.42	1/2	1,291.71	1/2	929.49	1/2	566.80	1/2	204.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,009.57	3/4	1,646.86	3/4	1,284.16	3/4	921.94	3/4	559.25	3/4	196.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,002.02	2	1,639.31	2	1,276.60	2	914.38	2	551.69	2	189.00	2	2	2	2	2	2	2	2
1/4	1,994.46	1/4	1,631.75	1/4	1,269.04	1/4	906.83	1/4	544.13	1/4	181.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,986.90	1/2	1,624.20	1/2	1,261.49	1/2	899.27	1/2	536.58	1/2	173.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,979.35	3/4	1,616.64	3/4	1,253.93	3/4	891.71	3/4	529.02	3/4	166.33	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,971.79	3	1,609.08	3	1,246.38	3	884.16	3	521.47	3	158.78	3	3	3	3	3	3	3	3
1/4	1,964.23	1/4	1,601.53	1/4	1,238.82	1/4	876.60	1/4	513.91	1/4	151.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,956.68	1/2	1,593.97	1/2	1,231.27	1/2	869.05	1/2	506.35	1/2	143.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,949.12	3/4	1,586.41	3/4	1,223.73	3/4	861.49	3/4	498.80	3/4	136.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,941.56	4	1,578.86	4	1,216.19	4	853.93	4	491.24	4	128.58	4	4	4	4	4	4	4	4
1/4	1,934.01	1/4	1,571.30	1/4	1,208.64	1/4	846.38	1/4	483.68	1/4	121.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,926.45	1/2	1,563.74	1/2	1,201.10	1/2	838.82	1/2	476.13	1/2	113.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,918.89	3/4	1,556.19	3/4	1,193.55	3/4	831.27	3/4	468.57	3/4	106.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,911.34	5	1,548.63	5	1,186.01	5	823.71	5	461.02	5	98.48	5	5	5	5	5	5	5	5
1/4	1,903.78	1/4	1,541.07	1/4	1,178.47	1/4	816.15	1/4	453.46	1/4	90.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,896.23	1/2	1,533.52	1/2	1,170.92	1/2	808.60	1/2	445.90	1/2	84.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,888.67	3/4	1,525.96	3/4	1,163.38	3/4	801.04	3/4	438.35	3/4	77.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,881.11	6	1,518.41	6	1,155.83	6	793.48	6	430.79	6	70.18	6	6	6	6	6	6	6	6
1/4	1,873.56	1/4	1,510.85	1/4	1,148.29	1/4	785.93	1/4	423.24	1/4	63.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,866.00	1/2	1,503.29	1/2	1,140.74	1/2	778.37	1/2	415.68	1/2	57.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,858.44	3/4	1,495.74	3/4	1,133.20	3/4	770.82	3/4	408.12	3/4	51.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,850.89	7	1,488.18	7	1,125.66	7	763.26	7	400.57	7	46.26	7	7	7	7	7	7	7	7
1/4	1,843.33	1/4	1,480.62	1/4	1,118.11	1/4	755.70	1/4	393.01	1/4	40.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,835.77	1/2	1,473.07	1/2	1,110.57	1/2	748.15	1/2	385.46	1/2	36.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,828.22	3/4	1,465.51	3/4	1,103.02	3/4	740.59	3/4	377.90	3/4	31.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,820.66	8	1,457.95	8	1,095.48	8	733.04	8	370.34	8	27.37	8	8	8	8	8	8	8	8
1/4	1,813.11	1/4	1,450.40	1/4	1,087.93	1/4	725.48	1/4	362.79	1/4	22.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.55	1/2	1,442.84	1/2	1,080.39	1/2	717.92	1/2	355.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,797.99	3/4	1,435.29	3/4	1,072.85	3/4	710.37	3/4	347.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,790.44	9	1,427.73	9	1,065.30	9	702.81	9	340.12	9		9	9	9	9	9	9	9	9
1/4	1,782.88	1/4	1,420.17	1/4	1,057.76	1/4	695.26	1/4	332.56	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.32	1/2	1,412.62	1/2	1,050.21	1/2	687.70	1/2	325.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.77	3/4	1,405.06	3/4	1,042.67	3/4	680.14	3/4	317.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,760.21	10	1,397.50	10	1,035.13	10	672.59	10	309.89	10		10	10	10	10	10	10	10	10
1/4	1,752.65	1/4	1,389.95	1/4	1,027.58	1/4	665.03	1/4	302.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.10	1/2	1,382.39	1/2	1,020.04	1/2	657.48	1/2	294.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.54	3/4	1,374.83	3/4	1,012.49	3/4	649.92	3/4	287.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,729.98	11	1,367.28	11	1,004.95	11	642.36	11	279.67	11		11	11	11	11	11	11	11	11
1/4	1,722.43	1/4	1,359.72	1/4	997.40	1/4	634.81	1/4	272.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,714.87	1/2	1,352.16	1/2	989.86	1/2	627.25	1/2	264.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.32	3/4	1,344.61	3/4	982.32	3/4	619.69	3/4	257.00	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: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 310"

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	4,956.74	0	4,611.92	0	4,251.32	0	3,888.75	0	3,526.18	0	3,163.60	0	2,801.03	0	2,438.39
1/4		1/4		1/4	4,949.74	1/4	4,604.53	1/4	4,243.77	1/4	3,881.19	1/4	3,518.62	1/4	3,156.05	1/4	2,793.48	1/4	2,430.83
1/2		1/2		1/2	4,942.74	1/2	4,597.14	1/2	4,236.21	1/2	3,873.64	1/2	3,511.07	1/2	3,148.50	1/2	2,785.92	1/2	2,423.27
3/4		3/4	5,245.39	3/4	4,935.74	3/4	4,589.75	3/4	4,228.66	3/4	3,866.09	3/4	3,503.51	3/4	3,140.94	3/4	2,778.37	3/4	2,415.72
1		1	5,241.05	1	4,928.71	1	4,582.34	1	4,221.11	1	3,858.53	1	3,495.96	1	3,133.39	1	2,770.82	1	2,408.16
1/4		1/4	5,236.72	1/4	4,921.68	1/4	4,574.92	1/4	4,213.55	1/4	3,850.98	1/4	3,488.41	1/4	3,125.83	1/4	2,763.26	1/4	2,400.61
1/2		1/2	5,232.38	1/2	4,914.64	1/2	4,567.50	1/2	4,206.00	1/2	3,843.43	1/2	3,480.85	1/2	3,118.28	1/2	2,755.71	1/2	2,393.05
3/4		3/4	5,228.05	3/4	4,907.61	3/4	4,560.08	3/4	4,198.45	3/4	3,835.87	3/4	3,473.30	3/4	3,110.73	3/4	2,748.15	3/4	2,385.49
2		2	5,222.48	2	4,900.55	2	4,552.63	2	4,190.89	2	3,828.32	2	3,465.75	2	3,103.17	2	2,740.60	2	2,377.94
1/4		1/4	5,216.92	1/4	4,893.49	1/4	4,545.18	1/4	4,183.34	1/4	3,820.77	1/4	3,458.19	1/4	3,095.62	1/4	2,733.05	1/4	2,370.38
1/2		1/2	5,211.35	1/2	4,886.43	1/2	4,537.73	1/2	4,175.79	1/2	3,813.21	1/2	3,450.64	1/2	3,088.07	1/2	2,725.49	1/2	2,362.82
3/4		3/4	5,205.79	3/4	4,879.37	3/4	4,530.28	3/4	4,168.23	3/4	3,805.66	3/4	3,443.09	3/4	3,080.51	3/4	2,717.94	3/4	2,355.27
3		3	5,199.76	3	4,872.27	3	4,522.80	3	4,160.68	3	3,798.11	3	3,435.53	3	3,072.96	3	2,710.39	3	2,347.71
1/4		1/4	5,193.72	1/4	4,865.18	1/4	4,515.32	1/4	4,153.12	1/4	3,790.55	1/4	3,427.98	1/4	3,065.41	1/4	2,702.83	1/4	2,340.15
1/2		1/2	5,187.69	1/2	4,858.09	1/2	4,507.84	1/2	4,145.57	1/2	3,783.00	1/2	3,420.43	1/2	3,057.85	1/2	2,695.28	1/2	2,332.60
3/4		3/4	5,181.66	3/4	4,851.00	3/4	4,500.37	3/4	4,138.02	3/4	3,775.44	3/4	3,412.87	3/4	3,050.30	3/4	2,687.73	3/4	2,325.04
4		4	5,175.00	4	4,843.88	4	4,492.86	4	4,130.46	4	3,767.89	4	3,405.32	4	3,042.75	4	2,680.17	4	2,317.48
1/4		1/4	5,168.35	1/4	4,836.76	1/4	4,485.35	1/4	4,122.91	1/4	3,760.34	1/4	3,397.76	1/4	3,035.19	1/4	2,672.62	1/4	2,309.93
1/2		1/2	5,161.69	1/2	4,829.64	1/2	4,477.84	1/2	4,115.36	1/2	3,752.78	1/2	3,390.21	1/2	3,027.64	1/2	2,665.07	1/2	2,302.37
3/4		3/4	5,155.03	3/4	4,822.52	3/4	4,470.33	3/4	4,107.80	3/4	3,745.23	3/4	3,382.66	3/4	3,020.08	3/4	2,657.51	3/4	2,294.82
5		5	5,148.32	5	4,815.37	5	4,462.79	5	4,100.25	5	3,737.68	5	3,375.10	5	3,012.53	5	2,649.96	5	2,287.26
1/4		1/4	5,141.61	1/4	4,808.21	1/4	4,455.25	1/4	4,092.70	1/4	3,730.12	1/4	3,367.55	1/4	3,004.98	1/4	2,642.40	1/4	2,279.70
1/2		1/2	5,134.89	1/2	4,801.06	1/2	4,447.70	1/2	4,085.14	1/2	3,722.57	1/2	3,360.00	1/2	2,997.42	1/2	2,634.85	1/2	2,272.15
3/4		3/4	5,128.18	3/4	4,793.91	3/4	4,440.16	3/4	4,077.59	3/4	3,715.02	3/4	3,352.44	3/4	2,989.87	3/4	2,627.30	3/4	2,264.59
6		6	5,121.43	6	4,786.73	6	4,432.61	6	4,070.03	6	3,707.46	6	3,344.89	6	2,982.32	6	2,619.74	6	2,257.03
1/4		1/4	5,114.68	1/4	4,779.55	1/4	4,425.05	1/4	4,062.48	1/4	3,699.91	1/4	3,337.34	1/4	2,974.76	1/4	2,612.18	1/4	2,249.48
1/2		1/2	5,107.92	1/2	4,772.37	1/2	4,417.50	1/2	4,054.93	1/2	3,692.35	1/2	3,329.78	1/2	2,967.21	1/2	2,604.63	1/2	2,241.92
3/4		3/4	5,101.17	3/4	4,765.19	3/4	4,409.95	3/4	4,047.37	3/4	3,684.80	3/4	3,322.23	3/4	2,959.66	3/4	2,597.07	3/4	2,234.36
7		7	5,094.39	7	4,757.98	7	4,402.39	7	4,039.82	7	3,677.25	7	3,314.67	7	2,952.10	7	2,589.52	7	2,226.81
1/4		1/4	5,087.61	1/4	4,750.77	1/4	4,394.84	1/4	4,032.27	1/4	3,669.69	1/4	3,307.12	1/4	2,944.55	1/4	2,581.96	1/4	2,219.25
1/2		1/2	5,080.82	1/2	4,743.56	1/2	4,387.29	1/2	4,024.71	1/2	3,662.14	1/2	3,299.57	1/2	2,936.99	1/2	2,574.40	1/2	2,211.70
3/4		3/4	5,074.04	3/4	4,736.35	3/4	4,379.73	3/4	4,017.16	3/4	3,654.59	3/4	3,292.01	3/4	2,929.44	3/4	2,566.85	3/4	2,204.14
8		8	5,067.23	8	4,729.08	8	4,372.18	8	4,009.61	8	3,647.03	8	3,284.46	8	2,921.89	8	2,559.29	8	2,196.58
1/4		1/4	5,060.42	1/4	4,721.81	1/4	4,364.63	1/4	4,002.05	1/4	3,639.48	1/4	3,276.91	1/4	2,914.33	1/4	2,551.73	1/4	2,189.03
1/2		1/2	5,053.60	1/2	4,714.54	1/2	4,357.07	1/2	3,994.50	1/2	3,631.93	1/2	3,269.35	1/2	2,906.78	1/2	2,544.18	1/2	2,181.47
3/4		3/4	5,046.79	3/4	4,707.27	3/4	4,349.52	3/4	3,986.95	3/4	3,624.37	3/4	3,261.80	3/4	2,899.23	3/4	2,536.62	3/4	2,173.91
9		9	5,039.95	9	4,699.97	9	4,341.96	9	3,979.39	9	3,616.82	9	3,254.25	9	2,891.67	9	2,529.06	9	2,166.36
1/4		1/4	5,033.10	1/4	4,692.67	1/4	4,334.41	1/4	3,971.84	1/4	3,609.27	1/4	3,246.69	1/4	2,884.12	1/4	2,521.51	1/4	2,158.80
1/2		1/2	5,026.26	1/2	4,685.37	1/2	4,326.86	1/2	3,964.28	1/2	3,601.71	1/2	3,239.14	1/2	2,876.57	1/2	2,513.95	1/2	2,151.24
3/4		3/4	5,019.42	3/4	4,678.07	3/4	4,319.30	3/4	3,956.73	3/4	3,594.16	3/4	3,231.59	3/4	2,869.01	3/4	2,506.39	3/4	2,143.69
10		10	5,012.47	10	4,670.74	10	4,311.75	10	3,949.18	10	3,586.60	10	3,224.03	10	2,861.46	10	2,498.84	10	2,136.13
1/4		1/4	5,005.53	1/4	4,663.41	1/4	4,304.20	1/4	3,941.62	1/4	3,579.05	1/4	3,216.48	1/4	2,853.91	1/4	2,491.28	1/4	2,128.57
1/2		1/2	4,998.59	1/2	4,656.08	1/2	4,296.64	1/2	3,934.07	1/2	3,571.50	1/2	3,208.92	1/2	2,846.35	1/2	2,483.73	1/2	2,121.02
3/4		3/4	4,991.64	3/4	4,648.75	3/4	4,289.09	3/4	3,926.52	3/4	3,563.94	3/4	3,201.37	3/4	2,838.80	3/4	2,476.17	3/4	2,113.46
11		11	4,984.67	11	4,641.39	11	4,281.54	11	3,918.96	11	3,556.39	11	3,193.82	11	2,831.24	11	2,468.61	11	2,105.91
1/4		1/4	4,977.69	1/4	4,634.03	1/4	4,273.98	1/4	3,911.41	1/4	3,548.84	1/4	3,186.26	1/4	2,823.69	1/4	2,461.06	1/4	2,098.35
1/2		1/2	4,970.72	1/2	4,626.67	1/2	4,266.43	1/2	3,903.86	1/2	3,541.28	1/2	3,178.71	1/2	2,816.14	1/2	2,453.50	1/2	2,090.79
3/4		3/4	4,963.75	3/4	4,619.31	3/4	4,258.87	3/4	3,896.30	3/4	3,533.73	3/4	3,171.16	3/4	2,808.58	3/4	2,445.94	3/4	2,083.24

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 310"

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	2,075.68	0	1,712.97	0	1,350.27	0	989.43	0	627.25	0	264.56	0		0		0		0	
1/4	2,068.12	1/4	1,705.42	1/4	1,342.71	1/4	981.92	1/4	619.69	1/4	257.00	1/4		1/4		1/4		1/4	
1/2	2,060.57	1/2	1,697.86	1/2	1,335.15	1/2	974.42	1/2	612.14	1/2	249.45	1/2		1/2		1/2		1/2	
3/4	2,053.01	3/4	1,690.30	3/4	1,327.60	3/4	966.91	3/4	604.58	3/4	241.89	3/4		3/4		3/4		3/4	
1	2,045.45	1	1,682.75	1	1,320.04	1	959.41	1	597.03	1	234.33	1		1		1		1	
1/4	2,037.90	1/4	1,675.19	1/4	1,312.48	1/4	951.90	1/4	589.47	1/4	226.78	1/4		1/4		1/4		1/4	
1/2	2,030.34	1/2	1,667.63	1/2	1,304.93	1/2	944.40	1/2	581.91	1/2	219.22	1/2		1/2		1/2		1/2	
3/4	2,022.79	3/4	1,660.08	3/4	1,297.37	3/4	936.89	3/4	574.36	3/4	211.67	3/4		3/4		3/4		3/4	
2	2,015.23	2	1,652.52	2	1,289.81	2	929.38	2	566.80	2	204.11	2		2		2		2	
1/4	2,007.67	1/4	1,644.97	1/4	1,282.26	1/4	921.86	1/4	559.25	1/4	196.55	1/4		1/4		1/4		1/4	
1/2	2,000.12	1/2	1,637.41	1/2	1,274.70	1/2	914.34	1/2	551.69	1/2	189.00	1/2		1/2		1/2		1/2	
3/4	1,992.56	3/4	1,629.85	3/4	1,267.15	3/4	906.83	3/4	544.13	3/4	181.44	3/4		3/4		3/4		3/4	
3	1,985.00	3	1,622.30	3	1,259.63	3	899.27	3	536.58	3	173.89	3		3		3		3	
1/4	1,977.45	1/4	1,614.74	1/4	1,252.11	1/4	891.71	1/4	529.02	1/4	166.33	1/4		1/4		1/4		1/4	
1/2	1,969.89	1/2	1,607.18	1/2	1,244.60	1/2	884.16	1/2	521.47	1/2	158.78	1/2		1/2		1/2		1/2	
3/4	1,962.33	3/4	1,599.63	3/4	1,237.08	3/4	876.60	3/4	513.91	3/4	151.22	3/4		3/4		3/4		3/4	
4	1,954.78	4	1,592.07	4	1,229.57	4	869.05	4	506.35	4	143.68	4		4		4		4	
1/4	1,947.22	1/4	1,584.51	1/4	1,222.07	1/4	861.49	1/4	498.80	1/4	136.13	1/4		1/4		1/4		1/4	
1/2	1,939.66	1/2	1,576.96	1/2	1,214.56	1/2	853.93	1/2	491.24	1/2	128.58	1/2		1/2		1/2		1/2	
3/4	1,932.11	3/4	1,569.40	3/4	1,207.06	3/4	846.38	3/4	483.68	3/4	121.04	3/4		3/4		3/4		3/4	
5	1,924.55	5	1,561.84	5	1,199.56	5	838.82	5	476.13	5	113.52	5		5		5		5	
1/4	1,917.00	1/4	1,554.29	1/4	1,192.05	1/4	831.27	1/4	468.57	1/4	106.00	1/4		1/4		1/4		1/4	
1/2	1,909.44	1/2	1,546.73	1/2	1,184.55	1/2	823.71	1/2	461.02	1/2	98.48	1/2		1/2		1/2		1/2	
3/4	1,901.88	3/4	1,539.18	3/4	1,177.04	3/4	816.15	3/4	453.46	3/4	90.96	3/4		3/4		3/4		3/4	
6	1,894.33	6	1,531.62	6	1,169.54	6	808.60	6	445.90	6	84.03	6		6		6		6	
1/4	1,886.77	1/4	1,524.06	1/4	1,162.03	1/4	801.04	1/4	438.35	1/4	77.11	1/4		1/4		1/4		1/4	
1/2	1,879.21	1/2	1,516.51	1/2	1,154.53	1/2	793.49	1/2	430.79	1/2	70.18	1/2		1/2		1/2		1/2	
3/4	1,871.66	3/4	1,508.95	3/4	1,147.02	3/4	785.93	3/4	423.24	3/4	63.26	3/4		3/4		3/4		3/4	
7	1,864.10	7	1,501.39	7	1,139.52	7	778.37	7	415.68	7	57.59	7		7		7		7	
1/4	1,856.54	1/4	1,493.84	1/4	1,132.01	1/4	770.82	1/4	408.12	1/4	51.93	1/4		1/4		1/4		1/4	
1/2	1,848.99	1/2	1,486.28	1/2	1,124.51	1/2	763.26	1/2	400.57	1/2	46.26	1/2		1/2		1/2		1/2	
3/4	1,841.43	3/4	1,478.72	3/4	1,117.00	3/4	755.70	3/4	393.01	3/4	40.59	3/4		3/4		3/4		3/4	
8	1,833.88	8	1,471.17	8	1,109.50	8	748.15	8	385.46	8	36.19	8		8		8		8	
1/4	1,826.32	1/4	1,463.61	1/4	1,102.00	1/4	740.59	1/4	377.90	1/4	31.78	1/4		1/4		1/4		1/4	
1/2	1,818.76	1/2	1,456.06	1/2	1,094.49	1/2	733.04	1/2	370.34	1/2	27.37	1/2		1/2		1/2		1/2	
3/4	1,811.21	3/4	1,448.50	3/4	1,086.99	3/4	725.48	3/4	362.79	3/4	22.97	3/4		3/4		3/4		3/4	
9	1,803.65	9	1,440.94	9	1,079.48	9	717.92	9	355.23	9		9		9		9		9	
1/4	1,796.09	1/4	1,433.39	1/4	1,071.98	1/4	710.37	1/4	347.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,788.54	1/2	1,425.83	1/2	1,064.47	1/2	702.81	1/2	340.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,780.98	3/4	1,418.27	3/4	1,056.97	3/4	695.26	3/4	332.56	3/4		3/4		3/4		3/4		3/4	
10	1,773.42	10	1,410.72	10	1,049.46	10	687.70	10	325.01	10		10		10		10		10	
1/4	1,765.87	1/4	1,403.16	1/4	1,041.96	1/4	680.14	1/4	317.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,758.31	1/2	1,395.60	1/2	1,034.45	1/2	672.59	1/2	309.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,750.75	3/4	1,388.05	3/4	1,026.95	3/4	665.03	3/4	302.34	3/4		3/4		3/4		3/4		3/4	
11	1,743.20	11	1,380.49	11	1,019.45	11	657.48	11	294.78	11		11		11		11		11	
1/4	1,735.64	1/4	1,372.93	1/4	1,011.94	1/4	649.92	1/4	287.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,728.09	1/2	1,365.38	1/2	1,004.44	1/2	642.36	1/2	279.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,720.53	3/4	1,357.82	3/4	996.93	3/4	634.81	3/4	272.11	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HBC 310"

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
			5,230.96		4,922.26		4,577.34		4,217.37		3,855.93		3,494.48		3,133.04		2,771.59		2,410.07
1/4	1/4	1/2	5,226.64	1/2	4,915.25	1/2	4,569.94	1/2	4,209.84	1/2	3,848.40	1/2	3,486.95	1/2	3,125.51	1/2	2,764.06	1/2	2,402.54
3/4	3/4	3/4	5,222.32	3/4	4,908.24	3/4	4,562.55	3/4	4,202.31	3/4	3,840.87	3/4	3,479.42	3/4	3,117.98	3/4	2,756.53	3/4	2,395.01
1	1	1	5,218.00	1	4,901.23	1	4,555.15	1	4,194.78	1	3,833.34	1	3,471.89	1	3,110.45	1	2,749.00	1	2,387.47
1/4	1/4	1/4	5,213.68	1/4	4,894.22	1/4	4,547.76	1/4	4,187.25	1/4	3,825.81	1/4	3,464.36	1/4	3,102.92	1/4	2,741.47	1/4	2,379.94
1/2	1/2	1/2	5,208.13	1/2	4,887.18	1/2	4,540.33	1/2	4,179.72	1/2	3,818.28	1/2	3,456.83	1/2	3,095.39	1/2	2,733.94	1/2	2,372.41
3/4	3/4	3/4	5,202.58	3/4	4,880.14	3/4	4,532.90	3/4	4,172.19	3/4	3,810.75	3/4	3,449.30	3/4	3,087.86	3/4	2,726.41	3/4	2,364.88
2	2	2	5,197.03	2	4,873.10	2	4,525.48	2	4,164.66	2	3,803.22	2	3,441.77	2	3,080.33	2	2,718.88	2	2,357.34
1/4	1/4	1/4	5,191.49	1/4	4,866.06	1/4	4,518.05	1/4	4,157.13	1/4	3,795.69	1/4	3,434.24	1/4	3,072.80	1/4	2,711.35	1/4	2,349.81
1/2	1/2	1/2	5,185.47	1/2	4,858.99	1/2	4,510.60	1/2	4,149.60	1/2	3,788.16	1/2	3,426.71	1/2	3,065.27	1/2	2,703.82	1/2	2,342.28
3/4	3/4	3/4	5,179.46	3/4	4,851.92	3/4	4,503.14	3/4	4,142.07	3/4	3,780.63	3/4	3,419.18	3/4	3,057.74	3/4	2,696.29	3/4	2,334.74
3	3	3	5,173.45	3	4,844.85	3	4,495.68	3	4,134.54	3	3,773.10	3	3,411.65	3	3,050.21	3	2,688.76	3	2,327.21
1/4	1/4	1/4	5,167.43	1/4	4,837.78	1/4	4,488.23	1/4	4,127.01	1/4	3,765.57	1/4	3,404.12	1/4	3,042.68	1/4	2,681.23	1/4	2,319.68
1/2	1/2	1/2	5,160.80	1/2	4,830.68	1/2	4,480.74	1/2	4,119.48	1/2	3,758.04	1/2	3,396.59	1/2	3,035.15	1/2	2,673.70	1/2	2,312.15
3/4	3/4	3/4	5,154.16	3/4	4,823.58	3/4	4,473.26	3/4	4,111.95	3/4	3,750.51	3/4	3,389.06	3/4	3,027.62	3/4	2,666.17	3/4	2,304.61
4	4	4	5,147.52	4	4,816.48	4	4,465.77	4	4,104.42	4	3,742.98	4	3,381.53	4	3,020.09	4	2,658.64	4	2,297.08
1/4	1/4	1/4	5,140.88	1/4	4,809.38	1/4	4,458.29	1/4	4,096.89	1/4	3,735.45	1/4	3,374.00	1/4	3,012.56	1/4	2,651.11	1/4	2,289.55
1/2	1/2	1/2	5,134.19	1/2	4,802.26	1/2	4,450.77	1/2	4,089.36	1/2	3,727.92	1/2	3,366.47	1/2	3,005.03	1/2	2,643.58	1/2	2,282.02
3/4	3/4	3/4	5,127.50	3/4	4,795.13	3/4	4,443.25	3/4	4,081.83	3/4	3,720.39	3/4	3,358.94	3/4	2,997.50	3/4	2,636.05	3/4	2,274.48
5	5	5	5,120.81	5	4,788.00	5	4,435.73	5	4,074.30	5	3,712.86	5	3,351.41	5	2,989.97	5	2,628.52	5	2,266.95
1/4	1/4	1/4	5,114.11	1/4	4,780.87	1/4	4,428.22	1/4	4,066.77	1/4	3,705.33	1/4	3,343.88	1/4	2,982.44	1/4	2,620.99	1/4	2,259.42
1/2	1/2	1/2	5,107.38	1/2	4,773.71	1/2	4,420.69	1/2	4,059.24	1/2	3,697.80	1/2	3,336.35	1/2	2,974.91	1/2	2,613.46	1/2	2,251.88
3/4	3/4	3/4	5,100.65	3/4	4,766.55	3/4	4,413.16	3/4	4,051.71	3/4	3,690.27	3/4	3,328.82	3/4	2,967.38	3/4	2,605.93	3/4	2,244.35
6	6	6	5,093.92	6	4,759.39	6	4,405.62	6	4,044.18	6	3,682.74	6	3,321.29	6	2,959.85	6	2,598.39	6	2,236.82
1/4	1/4	1/4	5,087.19	1/4	4,752.23	1/4	4,398.09	1/4	4,036.65	1/4	3,675.21	1/4	3,313.76	1/4	2,952.32	1/4	2,590.86	1/4	2,229.29
1/2	1/2	1/2	5,080.43	1/2	4,745.04	1/2	4,390.56	1/2	4,029.12	1/2	3,667.68	1/2	3,306.23	1/2	2,944.79	1/2	2,583.33	1/2	2,221.75
3/4	3/4	3/4	5,073.66	3/4	4,737.86	3/4	4,383.03	3/4	4,021.59	3/4	3,660.15	3/4	3,298.70	3/4	2,937.26	3/4	2,575.79	3/4	2,214.22
7	7	7	5,066.90	7	4,730.67	7	4,375.50	7	4,014.06	7	3,652.61	7	3,291.17	7	2,929.73	7	2,568.26	7	2,206.69
1/4	1/4	1/4	5,060.14	1/4	4,723.48	1/4	4,367.97	1/4	4,006.53	1/4	3,645.08	1/4	3,283.64	1/4	2,922.20	1/4	2,560.73	1/4	2,199.15
1/2	1/2	1/2	5,053.35	1/2	4,716.23	1/2	4,360.44	1/2	3,999.00	1/2	3,637.55	1/2	3,276.11	1/2	2,914.67	1/2	2,553.20	1/2	2,191.62
3/4	3/4	3/4	5,046.56	3/4	4,708.98	3/4	4,352.91	3/4	3,991.47	3/4	3,630.02	3/4	3,268.58	3/4	2,907.14	3/4	2,545.66	3/4	2,184.09
8	8	8	5,039.76	8	4,701.74	8	4,345.38	8	3,983.94	8	3,622.49	8	3,261.05	8	2,899.60	8	2,538.13	8	2,176.56
1/4	1/4	1/4	5,032.97	1/4	4,694.49	1/4	4,337.85	1/4	3,976.41	1/4	3,614.96	1/4	3,253.52	1/4	2,892.07	1/4	2,530.60	1/4	2,169.02
1/2	1/2	1/2	5,026.15	1/2	4,687.21	1/2	4,330.32	1/2	3,968.88	1/2	3,607.43	1/2	3,245.99	1/2	2,884.54	1/2	2,523.06	1/2	2,161.49
3/4	3/4	3/4	5,019.33	3/4	4,679.93	3/4	4,322.79	3/4	3,961.35	3/4	3,599.90	3/4	3,238.46	3/4	2,877.01	3/4	2,515.53	3/4	2,153.96
9	9	9	5,012.51	9	4,672.66	9	4,315.26	9	3,953.82	9	3,592.37	9	3,230.93	9	2,869.48	9	2,508.00	9	2,146.42
1/4	1/4	1/4	5,005.68	1/4	4,665.38	1/4	4,307.73	1/4	3,946.29	1/4	3,584.84	1/4	3,223.40	1/4	2,861.95	1/4	2,500.47	1/4	2,138.89
1/2	1/2	1/2	4,998.76	1/2	4,658.07	1/2	4,300.20	1/2	3,938.76	1/2	3,577.31	1/2	3,215.87	1/2	2,854.42	1/2	2,492.93	1/2	2,131.36
3/4	3/4	3/4	4,991.84	3/4	4,650.77	3/4	4,292.67	3/4	3,931.23	3/4	3,569.78	3/4	3,208.34	3/4	2,846.89	3/4	2,485.40	3/4	2,123.83
10	10	10	4,984.91	10	4,643.46	10	4,285.14	10	3,923.70	10	3,562.25	10	3,200.81	10	2,839.36	10	2,477.87	10	2,116.29
1/4	1/4	1/4	4,977.99	1/4	4,636.15	1/4	4,277.61	1/4	3,916.17	1/4	3,554.72	1/4	3,193.28	1/4	2,831.83	1/4	2,470.34	1/4	2,108.76
1/2	1/2	1/2	4,971.04	1/2	4,628.82	1/2	4,270.08	1/2	3,908.64	1/2	3,547.19	1/2	3,185.75	1/2	2,824.30	1/2	2,462.80	1/2	2,101.23
3/4	3/4	3/4	4,964.09	3/4	4,621.48	3/4	4,262.55	3/4	3,901.11	3/4	3,539.66	3/4	3,178.22	3/4	2,816.77	3/4	2,455.27	3/4	2,093.70
11	11	11	4,957.13	11	4,614.14	11	4,255.02	11	3,893.58	11	3,532.13	11	3,170.69	11	2,809.24	11	2,447.74	11	2,086.16
1/4	1/4	1/4	4,950.18	1/4	4,606.81	1/4	4,247.49	1/4	3,886.05	1/4	3,524.60	1/4	3,163.16	1/4	2,801.71	1/4	2,440.20	1/4	2,078.63
1/2	1/2	1/2	4,943.20	1/2	4,599.44	1/2	4,239.96	1/2	3,878.52	1/2	3,517.07	1/2	3,155.63	1/2	2,794.18	1/2	2,432.67	1/2	2,071.10
3/4	3/4	3/4	4,936.22	3/4	4,592.07	3/4	4,232.43	3/4	3,870.99	3/4	3,509.54	3/4	3,148.10	3/4	2,786.65	3/4	2,425.14	3/4	2,063.56

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN 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 310"

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.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,048.50	1/4	1,686.92	1/4	1,325.35	1/4	964.22	1/4	602.70	1/4	241.14	1/4		1/4		1/4		1/4	
1/2	2,040.97	1/2	1,679.39	1/2	1,317.82	1/2	956.70	1/2	595.17	1/2	233.60	1/2		1/2		1/2		1/2	
3/4	2,033.43	3/4	1,671.86	3/4	1,310.28	3/4	949.18	3/4	587.64	3/4	226.07	3/4		3/4		3/4		3/4	
1	2,025.90	1	1,664.33	1	1,302.75	1	941.66	1	580.10	1	218.54	1		1		1		1	
1/4	2,018.37	1/4	1,656.79	1/4	1,295.22	1/4	934.14	1/4	572.57	1/4	211.01	1/4		1/4		1/4		1/4	
1/2	2,010.83	1/2	1,649.26	1/2	1,287.69	1/2	926.60	1/2	565.04	1/2	203.47	1/2		1/2		1/2		1/2	
3/4	2,003.30	3/4	1,641.73	3/4	1,280.15	3/4	919.07	3/4	557.51	3/4	195.94	3/4		3/4		3/4		3/4	
2	1,995.77	2	1,634.19	2	1,272.62	2	911.54	2	549.97	2	188.41	2		2		2		2	
1/4	1,988.24	1/4	1,626.66	1/4	1,265.09	1/4	904.01	1/4	542.44	1/4	180.88	1/4		1/4		1/4		1/4	
1/2	1,980.70	1/2	1,619.13	1/2	1,257.55	1/2	896.47	1/2	534.91	1/2	173.34	1/2		1/2		1/2		1/2	
3/4	1,973.17	3/4	1,611.60	3/4	1,250.02	3/4	888.94	3/4	527.38	3/4	165.81	3/4		3/4		3/4		3/4	
3	1,965.64	3	1,604.06	3	1,242.49	3	881.41	3	519.84	3	158.28	3		3		3		3	
1/4	1,958.10	1/4	1,596.53	1/4	1,234.96	1/4	873.88	1/4	512.31	1/4	150.75	1/4		1/4		1/4		1/4	
1/2	1,950.57	1/2	1,589.00	1/2	1,227.44	1/2	866.34	1/2	504.78	1/2	143.23	1/2		1/2		1/2		1/2	
3/4	1,943.04	3/4	1,581.46	3/4	1,219.92	3/4	858.81	3/4	497.25	3/4	135.71	3/4		3/4		3/4		3/4	
4	1,935.51	4	1,573.93	4	1,212.39	4	851.28	4	489.71	4	128.18	4		4		4		4	
1/4	1,927.97	1/4	1,566.40	1/4	1,204.87	1/4	843.74	1/4	482.18	1/4	120.66	1/4		1/4		1/4		1/4	
1/2	1,920.44	1/2	1,558.87	1/2	1,197.35	1/2	836.21	1/2	474.65	1/2	113.17	1/2		1/2		1/2		1/2	
3/4	1,912.91	3/4	1,551.33	3/4	1,189.83	3/4	828.68	3/4	467.11	3/4	105.67	3/4		3/4		3/4		3/4	
5	1,905.38	5	1,543.80	5	1,182.31	5	821.15	5	459.58	5	98.17	5		5		5		5	
1/4	1,897.84	1/4	1,536.27	1/4	1,174.79	1/4	813.61	1/4	452.05	1/4	90.67	1/4		1/4		1/4		1/4	
1/2	1,890.31	1/2	1,528.74	1/2	1,167.27	1/2	806.08	1/2	444.52	1/2	83.77	1/2		1/2		1/2		1/2	
3/4	1,882.78	3/4	1,521.20	3/4	1,159.75	3/4	798.55	3/4	436.98	3/4	76.87	3/4		3/4		3/4		3/4	
6	1,875.24	6	1,513.67	6	1,152.23	6	791.02	6	429.45	6	69.97	6		6		6		6	
1/4	1,867.71	1/4	1,506.14	1/4	1,144.71	1/4	783.48	1/4	421.92	1/4	63.06	1/4		1/4		1/4		1/4	
1/2	1,860.18	1/2	1,498.60	1/2	1,137.19	1/2	775.95	1/2	414.39	1/2	57.41	1/2		1/2		1/2		1/2	
3/4	1,852.65	3/4	1,491.07	3/4	1,129.67	3/4	768.42	3/4	406.85	3/4	51.77	3/4		3/4		3/4		3/4	
7	1,845.11	7	1,483.54	7	1,122.15	7	760.89	7	399.32	7	46.12	7		7		7		7	
1/4	1,837.58	1/4	1,476.01	1/4	1,114.63	1/4	753.35	1/4	391.79	1/4	40.47	1/4		1/4		1/4		1/4	
1/2	1,830.05	1/2	1,468.47	1/2	1,107.11	1/2	745.82	1/2	384.26	1/2	36.08	1/2		1/2		1/2		1/2	
3/4	1,822.51	3/4	1,460.94	3/4	1,099.59	3/4	738.29	3/4	376.72	3/4	31.68	3/4		3/4		3/4		3/4	
8	1,814.98	8	1,453.41	8	1,092.07	8	730.76	8	369.19	8	27.29	8		8		8		8	
1/4	1,807.45	1/4	1,445.87	1/4	1,084.55	1/4	723.22	1/4	361.66	1/4	22.90	1/4		1/4		1/4		1/4	
1/2	1,799.92	1/2	1,438.34	1/2	1,077.03	1/2	715.69	1/2	354.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,792.38	3/4	1,430.81	3/4	1,069.51	3/4	708.16	3/4	346.59	3/4		3/4		3/4		3/4		3/4	
9	1,784.85	9	1,423.28	9	1,061.98	9	700.63	9	339.06	9		9		9		9		9	
1/4	1,777.32	1/4	1,415.74	1/4	1,054.46	1/4	693.09	1/4	331.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,769.78	1/2	1,408.21	1/2	1,046.94	1/2	685.56	1/2	324.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,762.25	3/4	1,400.68	3/4	1,039.42	3/4	678.03	3/4	316.46	3/4		3/4		3/4		3/4		3/4	
10	1,754.72	10	1,393.14	10	1,031.90	10	670.50	10	308.93	10		10		10		10		10	
1/4	1,747.19	1/4	1,385.61	1/4	1,024.38	1/4	662.96	1/4	301.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,739.65	1/2	1,378.08	1/2	1,016.86	1/2	655.43	1/2	293.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,732.12	3/4	1,370.55	3/4	1,009.34	3/4	647.90	3/4	286.33	3/4		3/4		3/4		3/4		3/4	
11	1,724.59	11	1,363.01	11	1,001.82	11	640.36	11	278.80	11		11		11		11		11	
1/4	1,717.06	1/4	1,355.48	1/4	994.30	1/4	632.83	1/4	271.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,709.52	1/2	1,347.95	1/2	986.78	1/2	625.30	1/2	263.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,701.99	3/4	1,340.42	3/4	979.26	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: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2013

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



BARGE "HBC 310"

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	4,919.74	0	4,575.63	0	4,216.05	0	3,854.65	0	3,493.25	0	3,131.85	0	2,770.45	0	2,408.97
1/4		1/4		1/4	4,912.76	1/4	4,568.26	1/4	4,208.52	1/4	3,847.12	1/4	3,485.72	1/4	3,124.32	1/4	2,762.92	1/4	2,401.44
1/2		1/2	5,214.45	1/2	4,905.78	1/2	4,560.90	1/2	4,200.99	1/2	3,839.59	1/2	3,478.19	1/2	3,116.79	1/2	2,755.39	1/2	2,393.91
3/4		3/4	5,210.13	3/4	4,898.77	3/4	4,553.50	3/4	4,193.47	3/4	3,823.06	3/4	3,470.66	3/4	3,109.26	3/4	2,747.86	3/4	2,386.38
1		1	5,205.81	1	4,891.76	1	4,546.11	1	4,185.94	1	3,824.53	1	3,463.13	1	3,101.73	1	2,740.33	1	2,378.84
1/4		1/4	5,201.48	1/4	4,884.75	1/4	4,538.71	1/4	4,178.41	1/4	3,817.01	1/4	3,455.60	1/4	3,094.20	1/4	2,732.80	1/4	2,371.31
1/2		1/2	5,197.16	1/2	4,877.74	1/2	4,531.32	1/2	4,170.88	1/2	3,809.48	1/2	3,448.07	1/2	3,086.67	1/2	2,725.27	1/2	2,363.78
3/4		3/4	5,191.62	3/4	4,870.70	3/4	4,523.89	3/4	4,163.35	3/4	3,801.95	3/4	3,440.55	3/4	3,079.14	3/4	2,717.74	3/4	2,356.25
2		2	5,186.07	2	4,863.66	2	4,516.47	2	4,155.82	2	3,794.42	2	3,433.02	2	3,071.61	2	2,710.21	2	2,348.72
1/4		1/4	5,180.52	1/4	4,856.62	1/4	4,509.04	1/4	4,148.29	1/4	3,786.89	1/4	3,425.49	1/4	3,064.09	1/4	2,702.68	1/4	2,341.18
1/2		1/2	5,174.97	1/2	4,849.58	1/2	4,501.62	1/2	4,140.76	1/2	3,779.36	1/2	3,417.96	1/2	3,056.56	1/2	2,695.15	1/2	2,333.65
3/4		3/4	5,168.96	3/4	4,842.52	3/4	4,494.16	3/4	4,133.23	3/4	3,771.83	3/4	3,410.43	3/4	3,049.03	3/4	2,687.63	3/4	2,326.12
3		3	5,162.95	3	4,835.45	3	4,486.71	3	4,125.70	3	3,764.30	3	3,402.90	3	3,041.50	3	2,680.10	3	2,318.59
1/4		1/4	5,156.94	1/4	4,828.38	1/4	4,479.25	1/4	4,118.17	1/4	3,756.77	1/4	3,395.37	1/4	3,033.97	1/4	2,672.57	1/4	2,311.06
1/2		1/2	5,150.92	1/2	4,821.31	1/2	4,471.80	1/2	4,110.64	1/2	3,749.24	1/2	3,387.84	1/2	3,026.44	1/2	2,665.04	1/2	2,303.52
3/4		3/4	5,144.29	3/4	4,814.21	3/4	4,464.31	3/4	4,103.11	3/4	3,741.71	3/4	3,380.31	3/4	3,018.91	3/4	2,657.51	3/4	2,295.99
4		4	5,137.65	4	4,807.11	4	4,456.83	4	4,095.59	4	3,734.18	4	3,372.78	4	3,011.38	4	2,649.98	4	2,288.46
1/4		1/4	5,131.01	1/4	4,800.11	1/4	4,449.34	1/4	4,088.06	1/4	3,726.65	1/4	3,365.25	1/4	3,003.85	1/4	2,642.45	1/4	2,280.93
1/2		1/2	5,124.38	1/2	4,792.92	1/2	4,441.86	1/2	4,080.53	1/2	3,719.13	1/2	3,357.72	1/2	2,996.32	1/2	2,634.92	1/2	2,273.40
3/4		3/4	5,117.69	3/4	4,785.79	3/4	4,434.35	3/4	4,073.00	3/4	3,711.60	3/4	3,350.19	3/4	2,988.79	3/4	2,627.39	3/4	2,265.86
5		5	5,110.99	5	4,778.66	5	4,426.84	5	4,065.47	5	3,704.07	5	3,342.67	5	2,981.26	5	2,619.86	5	2,258.33
1/4		1/4	5,104.30	1/4	4,771.53	1/4	4,419.32	1/4	4,057.94	1/4	3,696.54	1/4	3,335.14	1/4	2,973.73	1/4	2,612.33	1/4	2,250.80
1/2		1/2	5,097.61	1/2	4,764.40	1/2	4,411.81	1/2	4,050.41	1/2	3,689.01	1/2	3,327.61	1/2	2,966.21	1/2	2,604.80	1/2	2,243.27
3/4		3/4	5,090.88	3/4	4,757.25	3/4	4,404.28	3/4	4,042.88	3/4	3,681.48	3/4	3,320.08	3/4	2,958.68	3/4	2,597.27	3/4	2,235.74
6		6	5,084.15	6	4,750.09	6	4,396.75	6	4,035.35	6	3,673.95	6	3,312.55	6	2,951.15	6	2,589.74	6	2,228.20
1/4		1/4	5,077.42	1/4	4,742.93	1/4	4,389.22	1/4	4,027.82	1/4	3,666.42	1/4	3,305.02	1/4	2,943.62	1/4	2,582.21	1/4	2,220.67
1/2		1/2	5,070.69	1/2	4,735.77	1/2	4,381.70	1/2	4,020.29	1/2	3,658.89	1/2	3,297.49	1/2	2,936.09	1/2	2,574.68	1/2	2,213.14
3/4		3/4	5,063.93	3/4	4,728.58	3/4	4,374.17	3/4	4,012.76	3/4	3,651.36	3/4	3,289.96	3/4	2,928.56	3/4	2,567.14	3/4	2,205.61
7		7	5,057.17	7	4,721.40	7	4,366.64	7	4,005.24	7	3,643.83	7	3,282.43	7	2,921.03	7	2,559.61	7	2,198.08
1/4		1/4	5,050.40	1/4	4,714.21	1/4	4,359.11	1/4	3,997.71	1/4	3,636.30	1/4	3,274.90	1/4	2,913.50	1/4	2,552.08	1/4	2,190.54
1/2		1/2	5,043.64	1/2	4,707.02	1/2	4,351.58	1/2	3,990.18	1/2	3,628.78	1/2	3,267.37	1/2	2,905.97	1/2	2,544.55	1/2	2,183.01
3/4		3/4	5,036.85	3/4	4,699.77	3/4	4,344.05	3/4	3,982.65	3/4	3,621.25	3/4	3,259.84	3/4	2,898.44	3/4	2,537.02	3/4	2,175.48
8		8	5,030.06	8	4,692.53	8	4,336.52	8	3,975.12	8	3,613.72	8	3,252.32	8	2,890.91	8	2,529.48	8	2,167.95
1/4		1/4	5,023.27	1/4	4,685.28	1/4	4,328.99	1/4	3,967.59	1/4	3,606.19	1/4	3,244.79	1/4	2,883.38	1/4	2,521.95	1/4	2,160.42
1/2		1/2	5,016.48	1/2	4,678.03	1/2	4,321.46	1/2	3,960.06	1/2	3,598.66	1/2	3,237.26	1/2	2,875.86	1/2	2,514.42	1/2	2,152.88
3/4		3/4	5,009.66	3/4	4,670.76	3/4	4,313.93	3/4	3,952.53	3/4	3,591.13	3/4	3,229.73	3/4	2,868.33	3/4	2,506.89	3/4	2,145.35
9		9	5,002.84	9	4,663.48	9	4,306.40	9	3,945.00	9	3,583.60	9	3,222.20	9	2,860.80	9	2,499.36	9	2,137.82
1/4		1/4	4,996.01	1/4	4,656.21	1/4	4,298.87	1/4	3,937.47	1/4	3,576.07	1/4	3,214.67	1/4	2,853.27	1/4	2,491.82	1/4	2,130.29
1/2		1/2	4,989.19	1/2	4,648.93	1/2	4,291.34	1/2	3,929.94	1/2	3,568.54	1/2	3,207.14	1/2	2,845.74	1/2	2,484.29	1/2	2,122.76
3/4		3/4	4,982.27	3/4	4,641.62	3/4	4,283.82	3/4	3,922.41	3/4	3,561.01	3/4	3,199.61	3/4	2,838.21	3/4	2,476.76	3/4	2,115.22
10		10	4,975.35	10	4,634.32	10	4,276.29	10	3,914.88	10	3,553.48	10	3,192.08	10	2,830.68	10	2,469.23	10	2,107.69
1/4		1/4	4,968.43	1/4	4,627.01	1/4	4,268.76	1/4	3,907.36	1/4	3,545.95	1/4	3,184.55	1/4	2,823.15	1/4	2,461.70	1/4	2,100.16
1/2		1/2	4,961.50	1/2	4,619.70	1/2	4,261.23	1/2	3,899.83	1/2	3,538.42	1/2	3,177.02	1/2	2,815.62	1/2	2,454.16	1/2	2,092.63
3/4		3/4	4,954.55	3/4	4,612.37	3/4	4,253.70	3/4	3,892.30	3/4	3,530.90	3/4	3,169.49	3/4	2,808.09	3/4	2,446.63	3/4	2,085.10
11		11	4,947.60	11	4,605.03	11	4,246.17	11	3,884.77	11	3,523.37	11	3,161.96	11	2,800.56	11	2,439.10	11	2,077.56
1/4		1/4	4,940.65	1/4	4,597.70	1/4	4,238.64	1/4	3,877.24	1/4	3,515.84	1/4	3,154.44	1/4	2,793.03	1/4	2,431.57	1/4	2,070.03
1/2		1/2	4,933.70	1/2	4,590.36	1/2	4,231.11	1/2	3,869.71	1/2	3,508.31	1/2	3,146.91	1/2	2,785.50	1/2	2,424.04	1/2	2,062.50
3/4		3/4	4,926.72	3/4	4,583.00	3/4	4,223.58	3/4	3,862.18	3/4	3,500.78	3/4	3,139.38	3/4	2,777.98	3/4	2,416.50	3/4	2,054.97

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 310"

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	2,047.44	0	1,685.90	0	1,324.36	0	975.83	0	617.69	0	256.17	0		0		0		0	
1/4	2,039.90	1/4	1,678.37	1/4	1,316.83	1/4	968.64	1/4	610.16	1/4	248.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,032.37	1/2	1,670.84	1/2	1,309.30	1/2	961.45	1/2	602.63	1/2	241.11	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,024.84	3/4	1,663.30	3/4	1,301.77	3/4	954.26	3/4	595.10	3/4	233.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,017.31	1	1,655.77	1	1,294.24	1	947.07	1	587.57	1	226.04	1	1	1	1	1	1	1	1
1/4	2,009.78	1/4	1,648.24	1/4	1,286.70	1/4	939.88	1/4	580.03	1/4	218.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,002.24	1/2	1,640.71	1/2	1,279.17	1/2	932.70	1/2	572.50	1/2	210.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,994.71	3/4	1,633.18	3/4	1,271.64	3/4	925.50	3/4	564.97	3/4	203.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,987.18	2	1,625.64	2	1,264.11	2	918.30	2	557.44	2	195.92	2	2	2	2	2	2	2	2
1/4	1,979.65	1/4	1,618.11	1/4	1,256.58	1/4	911.10	1/4	549.91	1/4	188.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,972.12	1/2	1,610.58	1/2	1,249.04	1/2	903.90	1/2	542.38	1/2	180.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,964.58	3/4	1,603.05	3/4	1,241.84	3/4	896.37	3/4	534.84	3/4	173.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,957.05	3	1,595.52	3	1,234.64	3	888.83	3	527.31	3	165.79	3	3	3	3	3	3	3	3
1/4	1,949.52	1/4	1,587.98	1/4	1,227.44	1/4	881.30	1/4	519.78	1/4	158.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.99	1/2	1,580.45	1/2	1,220.24	1/2	873.77	1/2	512.25	1/2	150.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,934.46	3/4	1,572.92	3/4	1,213.05	3/4	866.24	3/4	504.72	3/4	143.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,926.92	4	1,565.39	4	1,205.86	4	858.71	4	497.19	4	135.69	4	4	4	4	4	4	4	4
1/4	1,919.39	1/4	1,557.86	1/4	1,198.67	1/4	851.18	1/4	489.65	1/4	128.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,911.86	1/2	1,550.32	1/2	1,191.49	1/2	843.64	1/2	482.12	1/2	120.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,904.33	3/4	1,542.79	3/4	1,184.30	3/4	836.11	3/4	474.59	3/4	113.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,896.80	5	1,535.26	5	1,177.11	5	828.58	5	467.06	5	105.66	5	5	5	5	5	5	5	5
1/4	1,889.26	1/4	1,527.73	1/4	1,169.92	1/4	821.05	1/4	459.53	1/4	98.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.73	1/2	1,520.20	1/2	1,162.73	1/2	813.52	1/2	452.00	1/2	90.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,874.20	3/4	1,512.66	3/4	1,155.54	3/4	805.99	3/4	444.46	3/4	83.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,866.67	6	1,505.13	6	1,148.35	6	798.45	6	436.93	6	76.86	6	6	6	6	6	6	6	6
1/4	1,859.14	1/4	1,497.60	1/4	1,141.17	1/4	790.92	1/4	429.40	1/4	69.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,851.60	1/2	1,490.07	1/2	1,133.98	1/2	783.39	1/2	421.87	1/2	63.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,844.07	3/4	1,482.54	3/4	1,126.79	3/4	775.86	3/4	414.34	3/4	57.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,836.54	7	1,475.00	7	1,119.60	7	768.33	7	406.80	7	51.76	7	7	7	7	7	7	7	7
1/4	1,829.01	1/4	1,467.47	1/4	1,112.41	1/4	760.79	1/4	399.27	1/4	46.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,821.48	1/2	1,459.94	1/2	1,105.22	1/2	753.26	1/2	391.74	1/2	40.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,813.94	3/4	1,452.41	3/4	1,098.03	3/4	745.73	3/4	384.21	3/4	36.07	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,806.41	8	1,444.88	8	1,090.85	8	738.20	8	376.68	8	31.68	8	8	8	8	8	8	8	8
1/4	1,798.88	1/4	1,437.34	1/4	1,083.66	1/4	730.67	1/4	369.15	1/4	27.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,791.35	1/2	1,429.81	1/2	1,076.47	1/2	723.14	1/2	361.61	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.82	3/4	1,422.28	3/4	1,069.28	3/4	715.60	3/4	354.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,776.28	9	1,414.75	9	1,062.09	9	708.07	9	346.55	9		9	9	9	9	9	9	9	9
1/4	1,768.75	1/4	1,407.22	1/4	1,054.90	1/4	700.54	1/4	339.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,761.22	1/2	1,399.68	1/2	1,047.71	1/2	693.01	1/2	331.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.69	3/4	1,392.15	3/4	1,040.52	3/4	685.48	3/4	323.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,746.16	10	1,384.62	10	1,033.34	10	677.95	10	316.42	10		10	10	10	10	10	10	10	10
1/4	1,738.62	1/4	1,377.09	1/4	1,026.15	1/4	670.41	1/4	308.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,731.09	1/2	1,369.56	1/2	1,018.96	1/2	662.88	1/2	301.36	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.56	3/4	1,362.02	3/4	1,011.77	3/4	655.35	3/4	293.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,716.03	11	1,354.49	11	1,004.58	11	647.82	11	286.30	11		11	11	11	11	11	11	11	11
1/4	1,708.50	1/4	1,346.96	1/4	997.39	1/4	640.29	1/4	278.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,700.96	1/2	1,339.43	1/2	990.20	1/2	632.76	1/2	271.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.43	3/4	1,331.90	3/4	983.02	3/4	625.22	3/4	263.70	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: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2013

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



BARGE "HBC 310"

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
			4,407.80		4,253.00		4,068.31		3,875.61		3,682.13		3,474.93		3,117.08		2,757.98		2,398.29		
1/4	1/4	1/2	4,406.93	1/2	4,249.24	1/2	4,064.35	1/2	3,871.58	1/2	3,678.10	1/2	3,467.46	1/2	3,109.60	1/2	2,750.49	1/2	2,390.80		
3/4	3/4	3/4	4,406.06	3/4	4,245.49	3/4	4,060.39	3/4	3,867.55	3/4	3,674.07	3/4	3,460.00	3/4	3,102.12	3/4	2,743.00	3/4	2,383.30		
1	1	1	4,405.19	1	4,241.73	1	4,056.43	1	3,863.52	1	3,670.04	1	3,452.54	1	3,094.64	1	2,735.51	1	2,375.81		
1/4	1/4	1/4	4,404.32	1/4	4,237.98	1/4	4,052.47	1/4	3,859.49	1/4	3,666.01	1/4	3,445.08	1/4	3,087.16	1/4	2,728.01	1/4	2,368.32		
1/2	1/2	1/2	4,402.22	1/2	4,234.21	1/2	4,048.49	1/2	3,855.46	1/2	3,661.98	1/2	3,437.62	1/2	3,079.68	1/2	2,720.52	1/2	2,360.82		
3/4	3/4	3/4	4,400.11	3/4	4,230.44	3/4	4,044.52	3/4	3,851.43	3/4	3,657.95	3/4	3,430.16	3/4	3,072.20	3/4	2,713.03	3/4	2,353.33		
2	2	2	4,398.01	2	4,226.67	2	4,040.54	2	3,847.40	2	3,653.91	2	3,422.70	2	3,064.72	2	2,705.53	2	2,345.83		
1/4	1/4	1/4	4,395.91	1/4	4,222.90	1/4	4,036.57	1/4	3,843.37	1/4	3,649.88	1/4	3,415.23	1/4	3,057.24	1/4	2,698.04	1/4	2,338.34		
1/2	1/2	1/2	4,392.97	1/2	4,219.11	1/2	4,032.58	1/2	3,839.34	1/2	3,645.85	1/2	3,407.77	1/2	3,049.76	1/2	2,690.55	1/2	2,330.85		
3/4	3/4	3/4	4,390.04	3/4	4,215.33	3/4	4,028.58	3/4	3,835.30	3/4	3,641.82	3/4	3,400.31	3/4	3,042.28	3/4	2,683.06	3/4	2,323.35		
3	3	3	4,387.11	3	4,211.54	3	4,024.59	3	3,831.27	3	3,637.79	3	3,392.85	3	3,034.80	3	2,675.56	3	2,315.86		
1/4	1/4	1/4	4,384.18	1/4	4,207.75	1/4	4,020.60	1/4	3,827.24	1/4	3,633.76	1/4	3,385.39	1/4	3,027.32	1/4	2,668.07	1/4	2,308.36		
1/2	1/2	1/2	4,380.64	1/2	4,203.95	1/2	4,016.59	1/2	3,823.21	1/2	3,629.73	1/2	3,377.93	1/2	3,019.84	1/2	2,660.58	1/2	2,300.87		
3/4	3/4	3/4	4,377.11	3/4	4,200.15	3/4	4,012.59	3/4	3,819.18	3/4	3,625.70	3/4	3,370.47	3/4	3,012.36	3/4	2,653.09	3/4	2,293.37		
4	4	4	4,373.57	4	4,196.35	4	4,008.58	4	3,815.15	4	3,621.67	4	3,363.00	4	3,004.88	4	2,645.59	4	2,285.88		
1/4	1/4	1/4	4,370.03	1/4	4,192.55	1/4	4,004.57	1/4	3,811.12	1/4	3,617.64	1/4	3,355.54	1/4	2,997.40	1/4	2,638.10	1/4	2,278.39		
1/2	1/2	1/2	4,366.45	1/2	4,188.73	1/2	4,000.55	1/2	3,807.09	1/2	3,613.61	1/2	3,348.08	1/2	2,989.92	1/2	2,630.61	1/2	2,270.89		
3/4	3/4	3/4	4,362.87	3/4	4,184.91	3/4	3,996.53	3/4	3,803.06	3/4	3,609.57	3/4	3,340.62	3/4	2,982.44	3/4	2,623.12	3/4	2,263.40		
5	5	5	4,359.30	5	4,181.09	5	3,992.50	5	3,799.03	5	3,605.54	5	3,333.16	5	2,974.96	5	2,615.62	5	2,255.90		
1/4	1/4	1/4	4,355.72	1/4	4,177.27	1/4	3,988.48	1/4	3,795.00	1/4	3,601.51	1/4	3,325.70	1/4	2,967.48	1/4	2,608.13	1/4	2,248.41		
1/2	1/2	1/2	4,352.11	1/2	4,173.44	1/2	3,984.45	1/2	3,790.96	1/2	3,597.48	1/2	3,318.25	1/2	2,960.00	1/2	2,600.64	1/2	2,240.92		
3/4	3/4	3/4	4,348.51	3/4	4,169.61	3/4	3,980.42	3/4	3,786.93	3/4	3,593.45	3/4	3,310.81	3/4	2,952.52	3/4	2,593.14	3/4	2,233.42		
6	6	6	4,344.91	6	4,165.77	6	3,976.39	6	3,782.90	6	3,589.42	6	3,303.36	6	2,945.04	6	2,585.65	6	2,225.93		
1/4	1/4	1/4	4,341.30	1/4	4,161.94	1/4	3,972.36	1/4	3,778.87	1/4	3,585.39	1/4	3,295.91	1/4	2,937.56	1/4	2,578.15	1/4	2,218.43		
1/2	1/2	1/2	4,337.68	1/2	4,158.09	1/2	3,968.32	1/2	3,774.84	1/2	3,581.36	1/2	3,288.47	1/2	2,930.08	1/2	2,570.66	1/2	2,210.94		
3/4	3/4	3/4	4,334.06	3/4	4,154.24	3/4	3,964.29	3/4	3,770.81	3/4	3,577.33	3/4	3,281.02	3/4	2,922.60	3/4	2,563.17	3/4	2,203.44		
7	7	7	4,330.44	7	4,150.39	7	3,960.26	7	3,766.78	7	3,573.30	7	3,273.58	7	2,915.12	7	2,555.67	7	2,195.95		
1/4	1/4	1/4	4,326.82	1/4	4,146.54	1/4	3,956.23	1/4	3,762.75	1/4	3,569.27	1/4	3,266.13	1/4	2,907.64	1/4	2,548.18	1/4	2,188.46		
1/2	1/2	1/2	4,323.18	1/2	4,142.66	1/2	3,952.20	1/2	3,758.72	1/2	3,565.23	1/2	3,258.69	1/2	2,900.16	1/2	2,540.68	1/2	2,180.96		
3/4	3/4	3/4	4,319.55	3/4	4,138.78	3/4	3,948.17	3/4	3,754.69	3/4	3,561.20	3/4	3,251.24	3/4	2,892.68	3/4	2,533.19	3/4	2,173.47		
8	8	8	4,315.91	8	4,134.90	8	3,944.14	8	3,750.66	8	3,557.17	8	3,243.79	8	2,885.20	8	2,525.69	8	2,165.97		
1/4	1/4	1/4	4,312.28	1/4	4,131.02	1/4	3,940.11	1/4	3,746.62	1/4	3,553.14	1/4	3,236.35	1/4	2,877.72	1/4	2,518.20	1/4	2,158.48		
1/2	1/2	1/2	4,308.62	1/2	4,127.13	1/2	3,936.08	1/2	3,742.59	1/2	3,549.11	1/2	3,228.90	1/2	2,870.24	1/2	2,510.71	1/2	2,150.98		
3/4	3/4	3/4	4,304.97	3/4	4,123.23	3/4	3,932.05	3/4	3,738.56	3/4	3,545.08	3/4	3,221.46	3/4	2,862.76	3/4	2,503.21	3/4	2,143.49		
9	9	9	4,301.32	9	4,119.33	9	3,928.02	9	3,734.53	9	3,541.05	9	3,214.01	9	2,855.28	9	2,495.72	9	2,136.00		
1/4	1/4	1/4	4,297.67	1/4	4,115.44	1/4	3,923.98	1/4	3,730.50	1/4	3,537.02	1/4	3,206.57	1/4	2,847.80	1/4	2,488.22	1/4	2,128.50		
1/2	1/2	1/2	4,293.96	1/2	4,111.53	1/2	3,919.95	1/2	3,726.47	1/2	3,532.99	1/2	3,199.12	1/2	2,840.32	1/2	2,480.73	1/2	2,121.01		
3/4	3/4	3/4	4,290.25	3/4	4,107.61	3/4	3,915.92	3/4	3,722.44	3/4	3,528.96	3/4	3,191.67	3/4	2,832.84	3/4	2,473.24	3/4	2,113.51		
10	10	10	4,286.55	10	4,103.70	10	3,911.89	10	3,718.41	10	3,524.93	10	3,184.23	10	2,825.36	10	2,465.74	10	2,106.02		
1/4	1/4	1/4	4,282.84	1/4	4,099.79	1/4	3,907.86	1/4	3,714.38	1/4	3,520.89	1/4	3,176.78	1/4	2,817.88	1/4	2,458.25	1/4	2,098.53		
1/2	1/2	1/2	4,279.12	1/2	4,095.86	1/2	3,903.83	1/2	3,710.35	1/2	3,516.86	1/2	3,169.34	1/2	2,810.40	1/2	2,450.75	1/2	2,091.03		
3/4	3/4	3/4	4,275.40	3/4	4,091.94	3/4	3,899.80	3/4	3,706.32	3/4	3,512.83	3/4	3,161.89	3/4	2,802.92	3/4	2,443.26	3/4	2,083.54		
11	11	11	4,271.67	11	4,088.01	11	3,895.77	11	3,702.28	11	3,508.80	11	3,154.45	11	2,795.44	11	2,435.76	11	2,076.04		
1/4	1/4	1/4	4,267.95	1/4	4,084.08	1/4	3,891.74	1/4	3,698.25	1/4	3,504.77	1/4	3,147.00	1/4	2,787.96	1/4	2,428.27	1/4	2,068.55		
1/2	1/2	1/2	4,264.21	1/2	4,080.14	1/2	3,887.71	1/2	3,694.22	1/2	3,497.31	1/2	3,139.52	1/2	2,780.47	1/2	2,420.78	1/2	2,061.05		
3/4	3/4	3/4	4,260.47	3/4	4,076.19	3/4	3,883.68	3/4	3,690.19	3/4	3,489.85	3/4	3,132.04	3/4	2,772.97	3/4	2,413.28	3/4	2,053.56		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-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 310"

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	2,046.07	0	1,686.26	0	1,326.46	0	966.96	0	607.24	0	247.45	0		0		0		0	
1/4	2,038.57	1/4	1,678.77	1/4	1,318.97	1/4	959.48	1/4	599.75	1/4	239.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.08	1/2	1,671.27	1/2	1,311.47	1/2	951.99	1/2	592.25	1/2	232.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.58	3/4	1,663.78	3/4	1,303.97	3/4	944.50	3/4	584.75	3/4	224.97	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,016.08	1	1,656.28	1	1,296.48	1	937.02	1	577.26	1	217.47	1	1	1	1	1	1	1	1
1/4	2,008.59	1/4	1,648.78	1/4	1,288.98	1/4	929.53	1/4	569.76	1/4	209.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,001.09	1/2	1,641.29	1/2	1,281.49	1/2	922.04	1/2	562.27	1/2	202.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,993.60	3/4	1,633.79	3/4	1,273.99	3/4	914.55	3/4	554.77	3/4	194.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,986.10	2	1,626.30	2	1,266.49	2	907.06	2	547.28	2	187.49	2	2	2	2	2	2	2	2
1/4	1,978.60	1/4	1,618.80	1/4	1,259.00	1/4	899.57	1/4	539.78	1/4	179.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,971.11	1/2	1,611.31	1/2	1,251.50	1/2	892.07	1/2	532.29	1/2	172.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,963.61	3/4	1,603.81	3/4	1,244.01	3/4	884.58	3/4	524.79	3/4	165.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,956.12	3	1,596.31	3	1,236.51	3	877.08	3	517.29	3	157.51	3	3	3	3	3	3	3	3
1/4	1,948.62	1/4	1,588.82	1/4	1,229.01	1/4	869.59	1/4	509.80	1/4	150.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,941.12	1/2	1,581.32	1/2	1,221.52	1/2	862.09	1/2	502.30	1/2	142.53	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,933.63	3/4	1,573.83	3/4	1,214.03	3/4	854.60	3/4	494.81	3/4	135.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,926.13	4	1,566.33	4	1,206.54	4	847.10	4	487.31	4	127.56	4	4	4	4	4	4	4	4
1/4	1,918.64	1/4	1,558.83	1/4	1,199.04	1/4	839.61	1/4	479.82	1/4	120.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,911.14	1/2	1,551.34	1/2	1,191.56	1/2	832.11	1/2	472.32	1/2	112.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,903.65	3/4	1,543.84	3/4	1,184.07	3/4	824.61	3/4	464.83	3/4	105.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,896.15	5	1,536.35	5	1,176.58	5	817.12	5	457.33	5	97.69	5	5	5	5	5	5	5	5
1/4	1,888.65	1/4	1,528.85	1/4	1,169.10	1/4	809.62	1/4	449.83	1/4	90.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,881.16	1/2	1,521.35	1/2	1,161.61	1/2	802.13	1/2	442.34	1/2	83.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,873.66	3/4	1,513.86	3/4	1,154.12	3/4	794.63	3/4	434.84	3/4	76.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,866.17	6	1,506.36	6	1,146.64	6	787.14	6	427.35	6	69.63	6	6	6	6	6	6	6	6
1/4	1,858.67	1/4	1,498.87	1/4	1,139.15	1/4	779.64	1/4	419.85	1/4	62.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,851.17	1/2	1,491.37	1/2	1,131.67	1/2	772.14	1/2	412.36	1/2	57.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.68	3/4	1,483.88	3/4	1,124.18	3/4	764.65	3/4	404.86	3/4	51.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,836.18	7	1,476.38	7	1,116.69	7	757.15	7	397.36	7	45.89	7	7	7	7	7	7	7	7
1/4	1,828.69	1/4	1,468.88	1/4	1,109.21	1/4	749.66	1/4	389.87	1/4	40.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,821.19	1/2	1,461.39	1/2	1,101.72	1/2	742.16	1/2	382.37	1/2	35.90	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,813.69	3/4	1,453.89	3/4	1,094.23	3/4	734.67	3/4	374.88	3/4	31.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,806.20	8	1,446.40	8	1,086.75	8	727.17	8	367.38	8	27.16	8	8	8	8	8	8	8	8
1/4	1,798.70	1/4	1,438.90	1/4	1,079.26	1/4	719.68	1/4	359.89	1/4	22.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,791.21	1/2	1,431.40	1/2	1,071.77	1/2	712.18	1/2	352.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,783.71	3/4	1,423.91	3/4	1,064.29	3/4	704.68	3/4	344.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,776.22	9	1,416.41	9	1,056.80	9	697.19	9	337.40	9		9	9	9	9	9	9	9	9
1/4	1,768.72	1/4	1,408.92	1/4	1,049.31	1/4	689.69	1/4	329.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,761.22	1/2	1,401.42	1/2	1,041.83	1/2	682.20	1/2	322.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.73	3/4	1,393.92	3/4	1,034.34	3/4	674.70	3/4	314.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,746.23	10	1,386.43	10	1,026.85	10	667.21	10	307.42	10		10	10	10	10	10	10	10	10
1/4	1,738.74	1/4	1,378.93	1/4	1,019.37	1/4	659.71	1/4	299.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,731.24	1/2	1,371.44	1/2	1,011.88	1/2	652.22	1/2	292.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.74	3/4	1,363.94	3/4	1,004.39	3/4	644.72	3/4	284.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,716.25	11	1,356.44	11	996.91	11	637.22	11	277.44	11		11	11	11	11	11	11	11	11
1/4	1,708.75	1/4	1,348.95	1/4	989.42	1/4	629.73	1/4	269.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,701.26	1/2	1,341.45	1/2	981.94	1/2	622.23	1/2	262.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,693.76	3/4	1,333.96	3/4	974.45	3/4	614.74	3/4	254.95	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: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
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BARGE "HBC 310"

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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,230.05	0	4,046.21	0	3,854.26	0	3,661.42	0	3,458.29	0	3,101.10	0	2,742.82	0	2,383.76
1/4	1/4	1/4	4,380.47	1/4	4,226.32	1/4	4,042.28	1/4	3,850.24	1/4	3,657.40	1/4	3,450.85	1/4	3,093.63	1/4	2,735.34	1/4	2,376.28
1/2	1/2	1/2	4,379.62	1/2	4,222.58	1/2	4,038.34	1/2	3,846.22	1/2	3,653.39	1/2	3,443.40	1/2	3,086.16	1/2	2,727.86	1/2	2,368.80
3/4	3/4	3/4	4,378.76	3/4	4,218.84	3/4	4,034.39	3/4	3,842.20	3/4	3,649.37	3/4	3,435.95	3/4	3,078.69	3/4	2,720.38	3/4	2,361.32
1	1	1	4,377.91	1	4,215.10	1	4,030.44	1	3,838.19	1	3,645.35	1	3,428.50	1	3,071.23	1	2,712.90	1	2,353.84
1/4	1/4	1/4	4,377.05	1/4	4,211.36	1/4	4,026.50	1/4	3,834.17	1/4	3,641.33	1/4	3,421.05	1/4	3,063.76	1/4	2,705.42	1/4	2,346.36
1/2	1/2	1/2	4,374.96	1/2	4,207.60	1/2	4,022.54	1/2	3,830.15	1/2	3,637.32	1/2	3,413.60	1/2	3,056.30	1/2	2,697.94	1/2	2,338.88
3/4	3/4	3/4	4,372.87	3/4	4,203.85	3/4	4,018.57	3/4	3,826.13	3/4	3,633.30	3/4	3,406.16	3/4	3,048.84	3/4	2,690.46	3/4	2,331.40
2	2	2	4,370.78	2	4,200.09	2	4,014.61	2	3,822.12	2	3,629.28	2	3,398.71	2	3,041.38	2	2,682.99	2	2,323.91
1/4	1/4	1/4	4,368.69	1/4	4,196.33	1/4	4,010.65	1/4	3,818.10	1/4	3,625.26	1/4	3,391.26	1/4	3,033.92	1/4	2,675.51	1/4	2,316.43
1/2	1/2	1/2	4,365.77	1/2	4,192.56	1/2	4,006.67	1/2	3,814.08	1/2	3,621.25	1/2	3,383.81	1/2	3,026.46	1/2	2,668.03	1/2	2,308.95
3/4	3/4	3/4	4,362.85	3/4	4,188.79	3/4	4,002.70	3/4	3,810.06	3/4	3,617.23	3/4	3,376.36	3/4	3,019.00	3/4	2,660.55	3/4	2,301.47
3	3	3	4,359.94	3	4,185.02	3	3,998.72	3	3,806.05	3	3,613.21	3	3,368.92	3	3,011.55	3	2,653.07	3	2,293.99
1/4	1/4	1/4	4,357.02	1/4	4,181.24	1/4	3,994.74	1/4	3,802.03	1/4	3,609.19	1/4	3,361.47	1/4	3,004.09	1/4	2,645.59	1/4	2,286.51
1/2	1/2	1/2	4,353.49	1/2	4,177.45	1/2	3,990.75	1/2	3,798.01	1/2	3,605.18	1/2	3,354.02	1/2	2,996.63	1/2	2,638.11	1/2	2,279.03
3/4	3/4	3/4	4,349.97	3/4	4,173.67	3/4	3,986.75	3/4	3,794.00	3/4	3,601.16	3/4	3,346.57	3/4	2,989.17	3/4	2,630.63	3/4	2,271.55
4	4	4	4,346.45	4	4,169.88	4	3,982.76	4	3,789.98	4	3,597.14	4	3,329.12	4	2,981.71	4	2,623.15	4	2,264.07
1/4	1/4	1/4	4,342.92	1/4	4,166.09	1/4	3,978.77	1/4	3,785.96	1/4	3,593.13	1/4	3,331.67	1/4	2,974.25	1/4	2,615.67	1/4	2,256.58
1/2	1/2	1/2	4,339.36	1/2	4,162.28	1/2	3,974.76	1/2	3,781.94	1/2	3,589.11	1/2	3,324.23	1/2	2,966.79	1/2	2,608.19	1/2	2,249.10
3/4	3/4	3/4	4,335.79	3/4	4,158.48	3/4	3,970.75	3/4	3,777.93	3/4	3,585.09	3/4	3,316.78	3/4	2,959.33	3/4	2,600.71	3/4	2,241.62
5	5	5	4,332.23	5	4,154.68	5	3,966.74	5	3,773.91	5	3,581.07	5	3,309.33	5	2,951.87	5	2,593.23	5	2,234.14
1/4	1/4	1/4	4,328.66	1/4	4,150.87	1/4	3,962.73	1/4	3,769.89	1/4	3,577.06	1/4	3,301.88	1/4	2,944.41	1/4	2,585.75	1/4	2,226.66
1/2	1/2	1/2	4,325.07	1/2	4,147.05	1/2	3,958.71	1/2	3,765.87	1/2	3,573.04	1/2	3,294.45	1/2	2,936.95	1/2	2,578.27	1/2	2,219.18
3/4	3/4	3/4	4,321.48	3/4	4,143.23	3/4	3,954.69	3/4	3,761.86	3/4	3,569.02	3/4	3,287.02	3/4	2,929.49	3/4	2,570.79	3/4	2,211.70
6	6	6	4,317.89	6	4,139.41	6	3,950.67	6	3,757.84	6	3,565.00	6	3,279.58	6	2,922.03	6	2,563.31	6	2,204.22
1/4	1/4	1/4	4,314.30	1/4	4,135.59	1/4	3,946.66	1/4	3,753.82	1/4	3,560.99	1/4	3,272.15	1/4	2,914.57	1/4	2,555.83	1/4	2,196.74
1/2	1/2	1/2	4,310.70	1/2	4,131.76	1/2	3,942.64	1/2	3,749.80	1/2	3,556.97	1/2	3,264.72	1/2	2,907.12	1/2	2,548.35	1/2	2,189.25
3/4	3/4	3/4	4,307.09	3/4	4,127.92	3/4	3,938.62	3/4	3,745.79	3/4	3,552.95	3/4	3,257.29	3/4	2,899.66	3/4	2,540.87	3/4	2,181.77
7	7	7	4,303.48	7	4,124.08	7	3,934.60	7	3,741.77	7	3,548.93	7	3,249.85	7	2,892.20	7	2,533.39	7	2,174.29
1/4	1/4	1/4	4,299.88	1/4	4,120.25	1/4	3,930.59	1/4	3,737.75	1/4	3,544.92	1/4	3,242.42	1/4	2,884.74	1/4	2,525.90	1/4	2,166.81
1/2	1/2	1/2	4,296.25	1/2	4,116.38	1/2	3,926.57	1/2	3,733.73	1/2	3,540.90	1/2	3,234.99	1/2	2,877.27	1/2	2,518.42	1/2	2,159.33
3/4	3/4	3/4	4,292.63	3/4	4,112.51	3/4	3,922.55	3/4	3,729.72	3/4	3,536.88	3/4	3,227.55	3/4	2,869.80	3/4	2,510.94	3/4	2,151.85
8	8	8	4,289.01	8	4,108.65	8	3,918.53	8	3,725.70	8	3,532.86	8	3,220.12	8	2,862.34	8	2,503.46	8	2,144.37
1/4	1/4	1/4	4,285.38	1/4	4,104.78	1/4	3,914.52	1/4	3,721.68	1/4	3,528.85	1/4	3,212.69	1/4	2,854.87	1/4	2,495.98	1/4	2,136.89
1/2	1/2	1/2	4,281.75	1/2	4,100.90	1/2	3,910.50	1/2	3,717.66	1/2	3,524.83	1/2	3,205.26	1/2	2,847.40	1/2	2,488.50	1/2	2,129.41
3/4	3/4	3/4	4,278.11	3/4	4,097.02	3/4	3,906.48	3/4	3,713.65	3/4	3,520.81	3/4	3,197.82	3/4	2,839.94	3/4	2,481.02	3/4	2,121.93
9	9	9	4,274.47	9	4,093.13	9	3,902.47	9	3,709.63	9	3,516.79	9	3,190.39	9	2,832.47	9	2,473.54	9	2,114.44
1/4	1/4	1/4	4,270.83	1/4	4,089.25	1/4	3,898.45	1/4	3,705.61	1/4	3,512.78	1/4	3,182.96	1/4	2,825.00	1/4	2,466.06	1/4	2,106.96
1/2	1/2	1/2	4,267.14	1/2	4,085.35	1/2	3,894.43	1/2	3,701.60	1/2	3,508.76	1/2	3,175.53	1/2	2,817.54	1/2	2,458.57	1/2	2,099.48
3/4	3/4	3/4	4,263.44	3/4	4,081.46	3/4	3,890.41	3/4	3,697.58	3/4	3,504.74	3/4	3,168.09	3/4	2,810.07	3/4	2,451.09	3/4	2,092.00
10	10	10	4,259.75	10	4,077.56	10	3,886.40	10	3,693.56	10	3,500.73	10	3,160.66	10	2,802.60	10	2,443.61	10	2,084.52
1/4	1/4	1/4	4,256.06	1/4	4,073.66	1/4	3,882.38	1/4	3,689.54	1/4	3,496.71	1/4	3,153.23	1/4	2,795.13	1/4	2,436.13	1/4	2,077.04
1/2	1/2	1/2	4,252.35	1/2	4,069.74	1/2	3,878.36	1/2	3,685.53	1/2	3,492.69	1/2	3,145.79	1/2	2,787.67	1/2	2,428.65	1/2	2,069.56
3/4	3/4	3/4	4,248.64	3/4	4,065.83	3/4	3,874.34	3/4	3,681.51	3/4	3,488.67	3/4	3,138.36	3/4	2,780.20	3/4	2,421.17	3/4	2,062.08
11	11	11	4,244.93	11	4,061.92	11	3,870.33	11	3,677.49	11	3,484.66	11	3,130.93	11	2,772.73	11	2,413.69	11	2,054.60
1/4	1/4	1/4	4,241.22	1/4	4,058.00	1/4	3,866.31	1/4	3,673.47	1/4	3,480.64	1/4	3,123.50	1/4	2,765.27	1/4	2,406.21	1/4	2,047.11
1/2	1/2	1/2	4,237.50	1/2	4,054.07	1/2	3,862.29	1/2	3,669.46	1/2	3,473.19	1/2	3,116.03	1/2	2,757.79	1/2	2,398.73	1/2	2,039.63
3/4	3/4	3/4	4,233.77	3/4	4,050.14	3/4	3,858.27	3/4	3,665.44	3/4	3,465.74	3/4	3,108.56	3/4	2,750.30	3/4	2,391.24	3/4	2,032.15

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'-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 310"

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	2,024.67	0	1,665.50	0	1,307.74	0	959.02	0	606.41	0	247.13	0		0		0		0	
1/4	2,017.19	1/4	1,658.02	1/4	1,300.32	1/4	951.88	1/4	598.92	1/4	239.65	1/4		1/4		1/4		1/4	
1/2	2,009.71	1/2	1,650.53	1/2	1,292.90	1/2	944.73	1/2	591.44	1/2	232.16	1/2		1/2		1/2		1/2	
3/4	2,002.22	3/4	1,643.05	3/4	1,285.48	3/4	937.58	3/4	583.95	3/4	224.68	3/4		3/4		3/4		3/4	
1	1,994.74	1	1,635.57	1	1,278.06	1	930.43	1	576.47	1	217.19	1		1		1		1	
1/4	1,987.26	1/4	1,628.08	1/4	1,270.64	1/4	923.29	1/4	568.98	1/4	209.71	1/4		1/4		1/4		1/4	
1/2	1,979.78	1/2	1,620.60	1/2	1,263.22	1/2	916.14	1/2	561.50	1/2	202.22	1/2		1/2		1/2		1/2	
3/4	1,972.29	3/4	1,613.12	3/4	1,255.80	3/4	908.99	3/4	554.01	3/4	194.74	3/4		3/4		3/4		3/4	
2	1,964.81	2	1,605.64	2	1,248.37	2	901.84	2	546.53	2	187.25	2		2		2		2	
1/4	1,957.33	1/4	1,598.15	1/4	1,240.95	1/4	894.69	1/4	539.04	1/4	179.77	1/4		1/4		1/4		1/4	
1/2	1,949.84	1/2	1,590.67	1/2	1,233.55	1/2	887.51	1/2	531.56	1/2	172.29	1/2		1/2		1/2		1/2	
3/4	1,942.36	3/4	1,583.19	3/4	1,226.14	3/4	880.34	3/4	524.07	3/4	164.80	3/4		3/4		3/4		3/4	
3	1,934.88	3	1,575.70	3	1,218.74	3	873.17	3	516.59	3	157.32	3		3		3		3	
1/4	1,927.40	1/4	1,568.22	1/4	1,211.33	1/4	865.99	1/4	509.10	1/4	149.83	1/4		1/4		1/4		1/4	
1/2	1,919.91	1/2	1,560.74	1/2	1,203.93	1/2	858.82	1/2	501.62	1/2	142.35	1/2		1/2		1/2		1/2	
3/4	1,912.43	3/4	1,553.26	3/4	1,196.53	3/4	851.65	3/4	494.13	3/4	134.87	3/4		3/4		3/4		3/4	
4	1,904.95	4	1,545.77	4	1,189.13	4	844.48	4	486.65	4	127.39	4		4		4		4	
1/4	1,897.46	1/4	1,538.29	1/4	1,181.73	1/4	837.30	1/4	479.16	1/4	119.91	1/4		1/4		1/4		1/4	
1/2	1,889.98	1/2	1,530.81	1/2	1,174.30	1/2	830.10	1/2	471.68	1/2	112.46	1/2		1/2		1/2		1/2	
3/4	1,882.50	3/4	1,523.32	3/4	1,166.87	3/4	822.90	3/4	464.20	3/4	105.01	3/4		3/4		3/4		3/4	
5	1,875.02	5	1,515.84	5	1,159.43	5	815.70	5	456.71	5	97.56	5		5		5		5	
1/4	1,867.53	1/4	1,508.36	1/4	1,152.00	1/4	808.50	1/4	449.23	1/4	90.11	1/4		1/4		1/4		1/4	
1/2	1,860.05	1/2	1,500.88	1/2	1,144.86	1/2	801.02	1/2	441.74	1/2	83.26	1/2		1/2		1/2		1/2	
3/4	1,852.57	3/4	1,493.39	3/4	1,137.71	3/4	793.53	3/4	434.26	3/4	76.42	3/4		3/4		3/4		3/4	
6	1,845.09	6	1,485.91	6	1,130.56	6	786.05	6	426.77	6	69.57	6		6		6		6	
1/4	1,837.60	1/4	1,478.43	1/4	1,123.41	1/4	778.56	1/4	419.29	1/4	62.72	1/4		1/4		1/4		1/4	
1/2	1,830.12	1/2	1,471.01	1/2	1,116.27	1/2	771.08	1/2	411.80	1/2	57.11	1/2		1/2		1/2		1/2	
3/4	1,822.64	3/4	1,463.59	3/4	1,109.12	3/4	763.59	3/4	404.32	3/4	51.50	3/4		3/4		3/4		3/4	
7	1,815.15	7	1,456.16	7	1,101.97	7	756.11	7	396.83	7	45.89	7		7		7		7	
1/4	1,807.67	1/4	1,448.74	1/4	1,094.82	1/4	748.62	1/4	389.35	1/4	40.28	1/4		1/4		1/4		1/4	
1/2	1,800.19	1/2	1,441.32	1/2	1,087.68	1/2	741.14	1/2	381.86	1/2	35.91	1/2		1/2		1/2		1/2	
3/4	1,792.71	3/4	1,433.90	3/4	1,080.53	3/4	733.65	3/4	374.38	3/4	31.53	3/4		3/4		3/4		3/4	
8	1,785.22	8	1,426.48	8	1,073.38	8	726.17	8	366.89	8	27.16	8		8		8		8	
1/4	1,777.74	1/4	1,419.06	1/4	1,066.24	1/4	718.68	1/4	359.41	1/4	22.79	1/4		1/4		1/4		1/4	
1/2	1,770.26	1/2	1,411.64	1/2	1,059.09	1/2	711.20	1/2	351.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,762.77	3/4	1,404.22	3/4	1,051.94	3/4	703.71	3/4	344.44	3/4		3/4		3/4		3/4		3/4	
9	1,755.29	9	1,396.80	9	1,044.79	9	696.23	9	336.95	9		9		9		9		9	
1/4	1,747.81	1/4	1,389.37	1/4	1,037.65	1/4	688.74	1/4	329.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.33	1/2	1,381.95	1/2	1,030.50	1/2	681.26	1/2	321.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,732.84	3/4	1,374.53	3/4	1,023.35	3/4	673.77	3/4	314.50	3/4		3/4		3/4		3/4		3/4	
10	1,725.36	10	1,367.11	10	1,016.20	10	666.29	10	307.01	10		10		10		10		10	
1/4	1,717.88	1/4	1,359.69	1/4	1,009.06	1/4	658.80	1/4	299.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.39	1/2	1,352.27	1/2	1,001.91	1/2	651.32	1/2	292.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,702.91	3/4	1,344.85	3/4	994.76	3/4	643.83	3/4	284.56	3/4		3/4		3/4		3/4		3/4	
11	1,695.43	11	1,337.43	11	987.61	11	636.35	11	277.07	11		11		11		11		11	
1/4	1,687.95	1/4	1,330.01	1/4	980.47	1/4	628.86	1/4	269.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.46	1/2	1,322.58	1/2	973.32	1/2	621.38	1/2	262.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,672.98	3/4	1,315.16	3/4	966.17	3/4	613.89	3/4	254.62	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
CALCULATED: 07/18/2013 CL
PRINTED: 07/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2013

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