



# BARGE "KIRBY 28176"

## ULLAGE TRIM TABLE

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

(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 - 00-5/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 243'-06"

November 4, 2011

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28176"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,955.12	0	4,620.92	0	4,281.25	0	3,925.08	0	3,553.03	0	3,176.37	0	2,798.19
1/4		1/4		1/4		1/4	4,949.74	1/4	4,614.02	1/4	4,274.00	1/4	3,917.49	1/4	3,545.18	1/4	3,168.49	1/4	2,790.31
1/2		1/2		1/2		1/2	4,943.06	1/2	4,607.10	1/2	4,266.74	1/2	3,909.87	1/2	3,537.34	1/2	3,160.61	1/2	2,782.44
3/4		3/4		3/4		3/4	4,936.38	3/4	4,600.17	3/4	4,259.47	3/4	3,902.26	3/4	3,529.49	3/4	3,152.73	3/4	2,774.56
1		1		1		1	4,929.70	1	4,593.25	1	4,252.20	1	3,894.64	1	3,521.65	1	3,144.85	1	2,766.68
1/4		1/4		1/4		1/4	4,923.02	1/4	4,586.33	1/4	4,244.93	1/4	3,887.02	1/4	3,513.81	1/4	3,136.97	1/4	2,758.80
1/2		1/2		1/2		1/2	4,915.41	1/2	4,579.37	1/2	4,237.63	1/2	3,879.38	1/2	3,505.96	1/2	3,129.09	1/2	2,750.92
3/4		3/4		3/4		3/4	4,907.79	3/4	4,572.42	3/4	4,230.34	3/4	3,871.74	3/4	3,498.12	3/4	3,121.22	3/4	2,743.04
2		2		2		2	4,900.18	2	4,565.47	2	4,223.04	2	3,864.10	2	3,490.28	2	3,113.34	2	2,735.16
1/4		1/4		1/4		1/4	4,892.56	1/4	4,558.51	1/4	4,215.74	1/4	3,856.46	1/4	3,482.43	1/4	3,105.46	1/4	2,727.29
1/2		1/2		1/2		1/2	4,884.72	1/2	4,551.53	1/2	4,208.42	1/2	3,848.79	1/2	3,474.59	1/2	3,097.58	1/2	2,719.41
3/4		3/4		3/4		3/4	4,876.88	3/4	4,544.55	3/4	4,201.09	3/4	3,841.12	3/4	3,466.75	3/4	3,089.70	3/4	2,711.53
3		3		3		3	4,869.03	3	4,537.57	3	4,193.77	3	3,833.45	3	3,458.90	3	3,081.82	3	2,703.65
1/4		1/4		1/4		1/4	4,861.19	1/4	4,530.59	1/4	4,186.44	1/4	3,825.78	1/4	3,451.06	1/4	3,073.94	1/4	2,695.77
1/2		1/2		1/2		1/2	4,853.78	1/2	4,523.57	1/2	4,179.09	1/2	3,818.08	1/2	3,443.21	1/2	3,066.07	1/2	2,687.89
3/4		3/4		3/4		3/4	4,846.37	3/4	4,516.56	3/4	4,171.73	3/4	3,810.38	3/4	3,435.37	3/4	3,058.19	3/4	2,680.01
4		4		4		4	4,838.96	4	4,509.55	4	4,164.38	4	3,802.68	4	3,427.53	4	3,050.31	4	2,672.14
1/4		1/4		1/4		1/4	4,831.55	1/4	4,502.54	1/4	4,157.02	1/4	3,794.99	1/4	3,419.68	1/4	3,042.43	1/4	2,664.26
1/2		1/2		1/2		1/2	4,824.85	1/2	4,495.50	1/2	4,149.64	1/2	3,787.26	1/2	3,411.84	1/2	3,034.55	1/2	2,656.38
3/4		3/4		3/4		3/4	4,818.15	3/4	4,488.46	3/4	4,142.25	3/4	3,779.53	3/4	3,404.00	3/4	3,026.67	3/4	2,648.50
5		5		5		5	4,811.46	5	4,481.42	5	4,134.87	5	3,771.80	5	3,396.15	5	3,018.79	5	2,640.62
1/4		1/4		1/4		1/4	4,804.76	1/4	4,474.38	1/4	4,127.49	1/4	3,764.08	1/4	3,388.31	1/4	3,010.92	1/4	2,632.74
1/2		1/2		1/2		1/2	4,798.04	1/2	4,467.31	1/2	4,120.07	1/2	3,756.32	1/2	3,380.46	1/2	3,003.04	1/2	2,624.86
3/4		3/4		3/4		3/4	4,791.31	3/4	4,460.25	3/4	4,112.66	3/4	3,748.56	3/4	3,372.62	3/4	2,995.16	3/4	2,616.99
6		6		6		6	4,784.59	6	4,453.18	6	4,105.25	6	3,740.81	6	3,364.78	6	2,987.28	6	2,609.11
1/4		1/4		1/4		1/4	4,777.86	1/4	4,446.11	1/4	4,097.84	1/4	3,733.05	1/4	3,356.93	1/4	2,979.40	1/4	2,601.23
1/2		1/2		1/2		1/2	4,771.11	1/2	4,439.01	1/2	4,090.40	1/2	3,725.26	1/2	3,349.09	1/2	2,971.52	1/2	2,593.35
3/4		3/4		3/4		3/4	4,764.35	3/4	4,431.91	3/4	4,082.95	3/4	3,717.48	3/4	3,341.25	3/4	2,963.64	3/4	2,585.47
7		7		7		7	4,757.60	7	4,424.81	7	4,075.51	7	3,709.69	7	3,333.40	7	2,955.77	7	2,577.59
1/4		1/4		1/4		1/4	4,750.84	1/4	4,417.72	1/4	4,068.07	1/4	3,701.91	1/4	3,325.56	1/4	2,947.89	1/4	2,569.71
1/2		1/2		1/2		1/2	4,744.06	1/2	4,410.59	1/2	4,060.60	1/2	3,694.09	1/2	3,317.71	1/2	2,940.01	1/2	2,561.84
3/4		3/4		3/4		3/4	4,737.28	3/4	4,403.46	3/4	4,053.13	3/4	3,686.28	3/4	3,309.87	3/4	2,932.13	3/4	2,553.96
8		8		8		8	4,730.49	8	4,396.33	8	4,045.66	8	3,678.47	8	3,302.03	8	2,924.25	8	2,546.08
1/4		1/4		1/4		1/4	4,723.71	1/4	4,389.21	1/4	4,038.19	1/4	3,670.65	1/4	3,294.18	1/4	2,916.37	1/4	2,538.20
1/2		1/2		1/2		1/2	4,716.90	1/2	4,382.05	1/2	4,030.69	1/2	3,662.81	1/2	3,286.34	1/2	2,908.49	1/2	2,530.32
3/4		3/4		3/4		3/4	4,710.08	3/4	4,374.89	3/4	4,023.19	3/4	3,654.98	3/4	3,278.50	3/4	2,900.61	3/4	2,522.44
9		9		9		9	4,703.27	9	4,367.74	9	4,015.69	9	3,647.14	9	3,270.65	9	2,892.74	9	2,514.56
1/4		1/4		1/4		1/4	4,696.46	1/4	4,360.58	1/4	4,008.19	1/4	3,639.31	1/4	3,262.81	1/4	2,884.86	1/4	2,506.68
1/2		1/2		1/2		1/2	4,689.61	1/2	4,353.40	1/2	4,000.66	1/2	3,631.46	1/2	3,254.97	1/2	2,876.98	1/2	2,498.81
3/4		3/4		3/4		3/4	4,682.77	3/4	4,346.21	3/4	3,993.13	3/4	3,623.62	3/4	3,247.12	3/4	2,869.10	3/4	2,490.93
10		10		10		10	4,675.93	10	4,339.02	10	3,985.60	10	3,615.78	10	3,239.28	10	2,861.22	10	2,483.05
1/4		1/4		1/4		1/4	4,669.09	1/4	4,331.84	1/4	3,978.07	1/4	3,607.93	1/4	3,231.43	1/4	2,853.34	1/4	2,475.17
1/2		1/2		1/2		1/2	4,662.22	1/2	4,324.62	1/2	3,970.51	1/2	3,600.09	1/2	3,223.58	1/2	2,845.46	1/2	2,467.29
3/4		3/4		3/4		3/4	4,655.35	3/4	4,317.41	3/4	3,962.96	3/4	3,592.24	3/4	3,215.72	3/4	2,837.59	3/4	2,459.41
11		11		11		11	4,648.47	11	4,310.20	11	3,955.40	11	3,584.40	11	3,207.86	11	2,829.71	11	2,451.53
1/4		1/4		1/4		1/4	4,641.60	1/4	4,302.98	1/4	3,947.84	1/4	3,576.56	1/4	3,200.00	1/4	2,821.83	1/4	2,443.66
1/2		1/2		1/2		1/2	4,634.71	1/2	4,295.74	1/2	3,940.25	1/2	3,568.71	1/2	3,192.12	1/2	2,813.95	1/2	2,435.78
3/4		3/4		3/4		3/4	4,960.50	3/4	4,627.81	3/4	4,288.49	3/4	3,932.67	3/4	3,560.87	3/4	3,184.24	3/4	2,427.90

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "KIRBY 28176"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,420.02	0	2,041.85	0	1,663.67	0	1,286.89	0	909.49	0	531.36	0	182.90	0		0		0	
1/4	2,412.14	1/4	2,033.97	1/4	1,655.80	1/4	1,279.06	1/4	901.61	1/4	523.49	1/4	176.26	1/4	1/4	1/4		1/4	
1/2	2,404.26	1/2	2,026.09	1/2	1,647.92	1/2	1,271.23	1/2	893.73	1/2	515.67	1/2	169.74	1/2	1/2	1/2		1/2	
3/4	2,396.38	3/4	2,018.21	3/4	1,640.04	3/4	1,263.40	3/4	885.86	3/4	507.85	3/4	163.22	3/4	3/4	3/4		3/4	
1	2,388.51	1	2,010.33	1	1,632.16	1	1,255.58	1	877.98	1	500.03	1	156.70	1	1	1		1	
1/4	2,380.63	1/4	2,002.45	1/4	1,624.28	1/4	1,247.75	1/4	870.10	1/4	492.21	1/4	150.18	1/4	1/4	1/4		1/4	
1/2	2,372.75	1/2	1,994.58	1/2	1,616.40	1/2	1,239.92	1/2	862.22	1/2	484.48	1/2	143.77	1/2	1/2	1/2		1/2	
3/4	2,364.87	3/4	1,986.70	3/4	1,608.52	3/4	1,232.09	3/4	854.34	3/4	476.75	3/4	137.37	3/4	3/4	3/4		3/4	
2	2,356.99	2	1,978.82	2	1,600.65	2	1,224.26	2	846.46	2	469.03	2	130.96	2	2	2		2	
1/4	2,349.11	1/4	1,970.94	1/4	1,592.77	1/4	1,216.43	1/4	838.59	1/4	461.30	1/4	124.56	1/4	1/4	1/4		1/4	
1/2	2,341.23	1/2	1,963.06	1/2	1,584.89	1/2	1,208.60	1/2	830.71	1/2	453.68	1/2	118.27	1/2	1/2	1/2		1/2	
3/4	2,333.36	3/4	1,955.18	3/4	1,577.01	3/4	1,200.77	3/4	822.83	3/4	446.06	3/4	111.99	3/4	3/4	3/4		3/4	
3	2,325.48	3	1,947.30	3	1,569.13	3	1,192.94	3	814.95	3	438.44	3	105.70	3	3	3		3	
1/4	2,317.60	1/4	1,939.43	1/4	1,561.25	1/4	1,185.11	1/4	807.07	1/4	430.82	1/4	99.42	1/4	1/4	1/4		1/4	
1/2	2,309.72	1/2	1,931.55	1/2	1,553.39	1/2	1,177.26	1/2	799.19	1/2	423.32	1/2	93.26	1/2	1/2	1/2		1/2	
3/4	2,301.84	3/4	1,923.67	3/4	1,545.52	3/4	1,169.42	3/4	791.32	3/4	415.81	3/4	87.11	3/4	3/4	3/4		3/4	
4	2,293.96	4	1,915.79	4	1,537.65	4	1,161.57	4	783.44	4	408.30	4	80.95	4	4	4		4	
1/4	2,286.08	1/4	1,907.91	1/4	1,529.78	1/4	1,153.72	1/4	775.56	1/4	400.79	1/4	74.80	1/4	1/4	1/4		1/4	
1/2	2,278.21	1/2	1,900.03	1/2	1,521.93	1/2	1,145.84	1/2	767.68	1/2	393.39	1/2	68.78	1/2	1/2	1/2		1/2	
3/4	2,270.33	3/4	1,892.15	3/4	1,514.08	3/4	1,137.97	3/4	759.80	3/4	385.99	3/4	62.77	3/4	3/4	3/4		3/4	
5	2,262.45	5	1,884.28	5	1,506.24	5	1,130.09	5	751.92	5	378.59	5	56.76	5	5	5		5	
1/4	2,254.57	1/4	1,876.40	1/4	1,498.39	1/4	1,122.21	1/4	744.05	1/4	371.19	1/4	50.74	1/4	1/4	1/4		1/4	
1/2	2,246.69	1/2	1,868.52	1/2	1,490.54	1/2	1,114.33	1/2	736.17	1/2	363.90	1/2	45.32	1/2	1/2	1/2		1/2	
3/4	2,238.81	3/4	1,860.64	3/4	1,482.70	3/4	1,106.45	3/4	728.29	3/4	356.61	3/4	39.90	3/4	3/4	3/4		3/4	
6	2,230.93	6	1,852.76	6	1,474.85	6	1,098.57	6	720.41	6	349.32	6	34.48	6	6	6		6	
1/4	2,223.06	1/4	1,844.88	1/4	1,467.01	1/4	1,090.69	1/4	712.53	1/4	342.03	1/4	29.06	1/4	1/4	1/4		1/4	
1/2	2,215.18	1/2	1,837.00	1/2	1,459.17	1/2	1,082.82	1/2	704.65	1/2	334.85	1/2	25.09	1/2	1/2	1/2		1/2	
3/4	2,207.30	3/4	1,829.13	3/4	1,451.34	3/4	1,074.94	3/4	696.77	3/4	327.67	3/4	21.13	3/4	3/4	3/4		3/4	
7	2,199.42	7	1,821.25	7	1,443.50	7	1,067.06	7	688.90	7	320.49	7	17.16	7	7	7		7	
1/4	2,191.54	1/4	1,813.37	1/4	1,435.66	1/4	1,059.18	1/4	681.02	1/4	313.31	1/4	13.19	1/4	1/4	1/4		1/4	
1/2	2,183.66	1/2	1,805.49	1/2	1,427.83	1/2	1,051.30	1/2	673.14	1/2	306.24	1/2		1/2	1/2	1/2		1/2	
3/4	2,175.78	3/4	1,797.61	3/4	1,420.00	3/4	1,043.42	3/4	665.26	3/4	299.17	3/4		3/4	3/4	3/4		3/4	
8	2,167.91	8	1,789.73	8	1,412.16	8	1,035.55	8	657.38	8	292.09	8		8	8	8		8	
1/4	2,160.03	1/4	1,781.85	1/4	1,404.33	1/4	1,027.67	1/4	649.50	1/4	285.02	1/4		1/4	1/4	1/4		1/4	
1/2	2,152.15	1/2	1,773.98	1/2	1,396.50	1/2	1,019.79	1/2	641.63	1/2	278.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,144.27	3/4	1,766.10	3/4	1,388.67	3/4	1,011.91	3/4	633.75	3/4	271.10	3/4		3/4	3/4	3/4		3/4	
9	2,136.39	9	1,758.22	9	1,380.84	9	1,004.03	9	625.87	9	264.14	9		9	9	9		9	
1/4	2,128.51	1/4	1,750.34	1/4	1,373.01	1/4	996.15	1/4	617.99	1/4	257.18	1/4		1/4	1/4	1/4		1/4	
1/2	2,120.63	1/2	1,742.46	1/2	1,365.18	1/2	988.28	1/2	610.11	1/2	250.32	1/2		1/2	1/2	1/2		1/2	
3/4	2,112.75	3/4	1,734.58	3/4	1,357.35	3/4	980.40	3/4	602.23	3/4	243.47	3/4		3/4	3/4	3/4		3/4	
10	2,104.88	10	1,726.70	10	1,349.53	10	972.52	10	594.36	10	236.62	10		10	10	10		10	
1/4	2,097.00	1/4	1,718.82	1/4	1,341.70	1/4	964.64	1/4	586.48	1/4	229.77	1/4		1/4	1/4	1/4		1/4	
1/2	2,089.12	1/2	1,710.95	1/2	1,333.87	1/2	956.76	1/2	578.60	1/2	223.03	1/2		1/2	1/2	1/2		1/2	
3/4	2,081.24	3/4	1,703.07	3/4	1,326.04	3/4	948.88	3/4	570.72	3/4	216.28	3/4		3/4	3/4	3/4		3/4	
11	2,073.36	11	1,695.19	11	1,318.21	11	941.01	11	562.84	11	209.54	11		11	11	11		11	
1/4	2,065.48	1/4	1,687.31	1/4	1,310.38	1/4	933.13	1/4	554.96	1/4	202.80	1/4		1/4	1/4	1/4		1/4	
1/2	2,057.60	1/2	1,679.43	1/2	1,302.55	1/2	925.25	1/2	547.10	1/2	196.16	1/2		1/2	1/2	1/2		1/2	
3/4	2,049.73	3/4	1,671.55	3/4	1,294.72	3/4	917.37	3/4	539.23	3/4	189.53	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2011 CL - SW  
CALCULATED: 11/04/2011 CL  
PRINTED: 11/04/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28176"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

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		
							4,952.66		4,616.87		4,276.77		3,920.18		3,547.78		3,170.99		2,792.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.98	1/4	4,609.94	1/4	4,269.50	1/4	3,912.56	1/4	3,539.93	1/4	3,163.11	1/4	2,784.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.30	1/2	4,603.02	1/2	4,262.23	1/2	3,904.94	1/2	3,532.09	1/2	3,155.23	1/2	2,776.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,932.62	3/4	4,596.09	3/4	4,254.96	3/4	3,897.32	3/4	3,524.24	3/4	3,147.35	3/4	2,769.09		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,925.94</b>	<b>1</b>	<b>4,589.17</b>	<b>1</b>	<b>4,247.69</b>	<b>1</b>	<b>3,889.70</b>	<b>1</b>	<b>3,516.40</b>	<b>1</b>	<b>3,139.47</b>	<b>1</b>	<b>2,761.21</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,918.32	1/4	4,582.21	1/4	4,240.39	1/4	3,882.06	1/4	3,508.55	1/4	3,131.59	1/4	2,753.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,910.71	1/2	4,575.26	1/2	4,233.10	1/2	3,874.42	1/2	3,500.71	1/2	3,123.71	1/2	2,745.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,903.09	3/4	4,568.30	3/4	4,225.80	3/4	3,866.77	3/4	3,492.86	3/4	3,115.83	3/4	2,737.57		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,895.47</b>	<b>2</b>	<b>4,561.35</b>	<b>2</b>	<b>4,218.50</b>	<b>2</b>	<b>3,859.13</b>	<b>2</b>	<b>3,485.02</b>	<b>2</b>	<b>3,107.95</b>	<b>2</b>	<b>2,729.69</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,887.63	1/4	4,554.36	1/4	4,211.17	1/4	3,851.46	1/4	3,477.17	1/4	3,100.07	1/4	2,721.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,879.78	1/2	4,547.38	1/2	4,203.84	1/2	3,843.79	1/2	3,469.33	1/2	3,092.19	1/2	2,713.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,871.94	3/4	4,540.40	3/4	4,196.51	3/4	3,836.12	3/4	3,461.48	3/4	3,084.31	3/4	2,706.05		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,864.09</b>	<b>3</b>	<b>4,533.41</b>	<b>3</b>	<b>4,189.19</b>	<b>3</b>	<b>3,828.45</b>	<b>3</b>	<b>3,453.63</b>	<b>3</b>	<b>3,076.43</b>	<b>3</b>	<b>2,698.17</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,856.68	1/4	4,526.40	1/4	4,181.83	1/4	3,820.74	1/4	3,445.79	1/4	3,068.55	1/4	2,690.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,849.27	1/2	4,519.39	1/2	4,174.48	1/2	3,813.04	1/2	3,437.94	1/2	3,060.67	1/2	2,682.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,841.86	3/4	4,512.37	3/4	4,167.12	3/4	3,805.34	3/4	3,430.10	3/4	3,052.79	3/4	2,674.53		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,834.45</b>	<b>4</b>	<b>4,505.36</b>	<b>4</b>	<b>4,159.76</b>	<b>4</b>	<b>3,797.64</b>	<b>4</b>	<b>3,422.25</b>	<b>4</b>	<b>3,044.90</b>	<b>4</b>	<b>2,666.65</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.75	1/4	4,498.32	1/4	4,152.38	1/4	3,789.91	1/4	3,414.41	1/4	3,037.02	1/4	2,658.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,821.05	1/2	4,491.28	1/2	4,144.99	1/2	3,782.18	1/2	3,406.56	1/2	3,029.14	1/2	2,650.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,814.35	3/4	4,484.24	3/4	4,137.61	3/4	3,774.46	3/4	3,398.72	3/4	3,021.26	3/4	2,643.00		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,807.65</b>	<b>5</b>	<b>4,477.20</b>	<b>5</b>	<b>4,130.22</b>	<b>5</b>	<b>3,766.73</b>	<b>5</b>	<b>3,390.87</b>	<b>5</b>	<b>3,013.38</b>	<b>5</b>	<b>2,635.12</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,800.93	1/4	4,470.13	1/4	4,122.81	1/4	3,758.97	1/4	3,383.02	1/4	3,005.50	1/4	2,627.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,794.20	1/2	4,463.06	1/2	4,115.39	1/2	3,751.21	1/2	3,375.18	1/2	2,997.62	1/2	2,619.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,787.47	3/4	4,455.99	3/4	4,107.98	3/4	3,743.45	3/4	3,367.33	3/4	2,989.74	3/4	2,611.48		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,780.75</b>	<b>6</b>	<b>4,448.91</b>	<b>6</b>	<b>4,100.56</b>	<b>6</b>	<b>3,735.69</b>	<b>6</b>	<b>3,359.49</b>	<b>6</b>	<b>2,981.86</b>	<b>6</b>	<b>2,603.60</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,773.99	1/4	4,441.82	1/4	4,093.12	1/4	3,727.90	1/4	3,351.64	1/4	2,973.98	1/4	2,595.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,767.23	1/2	4,434.72	1/2	4,085.68	1/2	3,720.12	1/2	3,343.80	1/2	2,966.10	1/2	2,587.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,760.48	3/4	4,427.62	3/4	4,078.23	3/4	3,712.33	3/4	3,335.95	3/4	2,958.22	3/4	2,579.96		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,753.72</b>	<b>7</b>	<b>4,420.52</b>	<b>7</b>	<b>4,070.79</b>	<b>7</b>	<b>3,704.54</b>	<b>7</b>	<b>3,328.11</b>	<b>7</b>	<b>2,950.34</b>	<b>7</b>	<b>2,572.08</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.94	1/4	4,413.39	1/4	4,063.32	1/4	3,696.73	1/4	3,320.26	1/4	2,942.46	1/4	2,564.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,740.15	1/2	4,406.26	1/2	4,055.85	1/2	3,688.91	1/2	3,312.42	1/2	2,934.58	1/2	2,556.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,733.37	3/4	4,399.13	3/4	4,048.37	3/4	3,681.10	3/4	3,304.57	3/4	2,926.70	3/4	2,548.44		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,726.58</b>	<b>8</b>	<b>4,392.00</b>	<b>8</b>	<b>4,040.90</b>	<b>8</b>	<b>3,673.28</b>	<b>8</b>	<b>3,296.72</b>	<b>8</b>	<b>2,918.82</b>	<b>8</b>	<b>2,540.56</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,719.77	1/4	4,384.84	1/4	4,033.40	1/4	3,665.44	1/4	3,288.88	1/4	2,910.94	1/4	2,532.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,712.95	1/2	4,377.69	1/2	4,025.90	1/2	3,657.60	1/2	3,281.03	1/2	2,903.06	1/2	2,524.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,706.14	3/4	4,370.53	3/4	4,018.40	3/4	3,649.76	3/4	3,273.19	3/4	2,895.18	3/4	2,516.92		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,699.32</b>	<b>9</b>	<b>4,363.37</b>	<b>9</b>	<b>4,010.89</b>	<b>9</b>	<b>3,641.93</b>	<b>9</b>	<b>3,265.34</b>	<b>9</b>	<b>2,887.30</b>	<b>9</b>	<b>2,509.04</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,692.48	1/4	4,356.18	1/4	4,003.36	1/4	3,634.08	1/4	3,257.50	1/4	2,879.42	1/4	2,501.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685.64	1/2	4,348.99	1/2	3,995.83	1/2	3,626.24	1/2	3,249.65	1/2	2,871.54	1/2	2,493.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.79	3/4	4,341.81	3/4	3,988.30	3/4	3,618.39	3/4	3,241.81	3/4	2,863.66	3/4	2,485.40		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,671.95</b>	<b>10</b>	<b>4,334.62</b>	<b>10</b>	<b>3,980.77</b>	<b>10</b>	<b>3,610.54</b>	<b>10</b>	<b>3,233.96</b>	<b>10</b>	<b>2,855.78</b>	<b>10</b>	<b>2,477.52</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.08	1/4	4,327.40	1/4	3,973.21	1/4	3,602.70	1/4	3,226.10	1/4	2,847.89	1/4	2,469.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.20	1/2	4,320.19	1/2	3,965.65	1/2	3,594.85	1/2	3,218.24	1/2	2,840.01	1/2	2,461.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,651.33	3/4	4,312.97	3/4	3,958.09	3/4	3,587.01	3/4	3,210.37	3/4	2,832.13	3/4	2,453.87		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,644.46</b>	<b>11</b>	<b>4,305.76</b>	<b>11</b>	<b>3,950.53</b>	<b>11</b>	<b>3,579.16</b>	<b>11</b>	<b>3,202.51</b>	<b>11</b>	<b>2,824.25</b>	<b>11</b>	<b>2,445.99</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.56	1/4	4,298.51	1/4	3,942.94	1/4	3,571.32	1/4	3,194.63	1/4	2,816.37	1/4	2,438.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,963.43	1/2	4,630.66	1/2	4,291.26	1/2	3,935.35	1/2	3,563.47	1/2	3,186.75	1/2	2,808.49	1/2	2,430.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,958.05	3/4	4,623.76	3/4	4,284.02	3/4	3,927.77	3/4	3,555.63	3/4	3,178.87	3/4	2,800.61	3/4	2,422.35

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28176"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,414.47	0	2,036.21	0	1,657.95	0	1,279.70	0	901.74	0	523.61	0	176.31	0		0		0	
1/4	2,406.59	1/4	2,028.33	1/4	1,650.07	1/4	1,271.81	1/4	893.88	1/4	515.79	1/4	169.78	1/4	1/4		1/4		1/4
1/2	2,398.71	1/2	2,020.45	1/2	1,642.19	1/2	1,263.93	1/2	886.01	1/2	507.97	1/2	163.26	1/2	1/2		1/2		1/2
3/4	2,390.83	3/4	2,012.57	3/4	1,634.31	3/4	1,256.05	3/4	878.14	3/4	500.15	3/4	156.74	3/4	3/4		3/4		3/4
1	2,382.95	1	2,004.69	1	1,626.43	1	1,248.17	1	870.27	1	492.32	1	150.21	1	1		1		1
1/4	2,375.07	1/4	1,996.81	1/4	1,618.55	1/4	1,240.29	1/4	862.40	1/4	484.59	1/4	143.81	1/4	1/4		1/4		1/4
1/2	2,367.19	1/2	1,988.93	1/2	1,610.67	1/2	1,232.41	1/2	854.53	1/2	476.86	1/2	137.40	1/2	1/2		1/2		1/2
3/4	2,359.31	3/4	1,981.05	3/4	1,602.79	3/4	1,224.53	3/4	846.65	3/4	469.14	3/4	130.99	3/4	3/4		3/4		3/4
2	2,351.43	2	1,973.17	2	1,594.91	2	1,216.65	2	838.78	2	461.41	2	124.58	2	2		2		2
1/4	2,343.55	1/4	1,965.29	1/4	1,587.03	1/4	1,208.77	1/4	830.90	1/4	453.79	1/4	118.30	1/4	1/4		1/4		1/4
1/2	2,335.67	1/2	1,957.41	1/2	1,579.15	1/2	1,200.89	1/2	823.02	1/2	446.17	1/2	112.01	1/2	1/2		1/2		1/2
3/4	2,327.79	3/4	1,949.53	3/4	1,571.27	3/4	1,193.01	3/4	815.14	3/4	438.54	3/4	105.73	3/4	3/4		3/4		3/4
3	2,319.91	3	1,941.65	3	1,563.39	3	1,185.13	3	807.26	3	430.92	3	99.44	3	3		3		3
1/4	2,312.03	1/4	1,933.77	1/4	1,555.51	1/4	1,177.25	1/4	799.38	1/4	423.41	1/4	93.28	1/4	1/4		1/4		1/4
1/2	2,304.15	1/2	1,925.89	1/2	1,547.63	1/2	1,169.37	1/2	791.50	1/2	415.90	1/2	87.13	1/2	1/2		1/2		1/2
3/4	2,296.27	3/4	1,918.01	3/4	1,539.75	3/4	1,161.49	3/4	783.62	3/4	408.39	3/4	80.97	3/4	3/4		3/4		3/4
4	2,288.39	4	1,910.13	4	1,531.87	4	1,153.61	4	775.74	4	400.88	4	74.81	4	4		4		4
1/4	2,280.51	1/4	1,902.25	1/4	1,523.99	1/4	1,145.73	1/4	767.86	1/4	393.48	1/4	68.80	1/4	1/4		1/4		1/4
1/2	2,272.63	1/2	1,894.37	1/2	1,516.11	1/2	1,137.85	1/2	759.98	1/2	386.08	1/2	62.78	1/2	1/2		1/2		1/2
3/4	2,264.75	3/4	1,886.49	3/4	1,508.23	3/4	1,129.97	3/4	752.10	3/4	378.68	3/4	56.77	3/4	3/4		3/4		3/4
5	2,256.86	5	1,878.61	5	1,500.35	5	1,122.09	5	744.22	5	371.28	5	50.75	5	5		5		5
1/4	2,248.98	1/4	1,870.73	1/4	1,492.47	1/4	1,114.21	1/4	736.34	1/4	363.98	1/4	45.33	1/4	1/4		1/4		1/4
1/2	2,241.10	1/2	1,862.84	1/2	1,484.59	1/2	1,106.34	1/2	728.46	1/2	356.69	1/2	39.91	1/2	1/2		1/2		1/2
3/4	2,233.22	3/4	1,854.96	3/4	1,476.71	3/4	1,098.46	3/4	720.58	3/4	349.40	3/4	34.49	3/4	3/4		3/4		3/4
6	2,225.34	6	1,847.08	6	1,468.82	6	1,090.58	6	712.70	6	342.11	6	29.07	6	6		6		6
1/4	2,217.46	1/4	1,839.20	1/4	1,460.94	1/4	1,082.72	1/4	704.82	1/4	334.93	1/4	25.10	1/4	1/4		1/4		1/4
1/2	2,209.58	1/2	1,831.32	1/2	1,453.06	1/2	1,074.85	1/2	696.94	1/2	327.75	1/2	21.13	1/2	1/2		1/2		1/2
3/4	2,201.70	3/4	1,823.44	3/4	1,445.18	3/4	1,066.98	3/4	689.06	3/4	320.56	3/4	17.17	3/4	3/4		3/4		3/4
7	2,193.82	7	1,815.56	7	1,437.30	7	1,059.11	7	681.18	7	313.38	7	13.20	7	7		7		7
1/4	2,185.94	1/4	1,807.68	1/4	1,429.42	1/4	1,051.24	1/4	673.30	1/4	306.31	1/4		1/4	1/4		1/4		1/4
1/2	2,178.06	1/2	1,799.80	1/2	1,421.54	1/2	1,043.37	1/2	665.42	1/2	299.24	1/2		1/2	1/2		1/2		1/2
3/4	2,170.18	3/4	1,791.92	3/4	1,413.66	3/4	1,035.51	3/4	657.53	3/4	292.16	3/4		3/4	3/4		3/4		3/4
8	2,162.30	8	1,784.04	8	1,405.78	8	1,027.64	8	649.65	8	285.09	8		8	8		8		8
1/4	2,154.42	1/4	1,776.16	1/4	1,397.90	1/4	1,019.77	1/4	641.77	1/4	278.13	1/4		1/4	1/4		1/4		1/4
1/2	2,146.54	1/2	1,768.28	1/2	1,390.02	1/2	1,011.90	1/2	633.89	1/2	271.16	1/2		1/2	1/2		1/2		1/2
3/4	2,138.66	3/4	1,760.40	3/4	1,382.14	3/4	1,004.03	3/4	626.01	3/4	264.20	3/4		3/4	3/4		3/4		3/4
9	2,130.78	9	1,752.52	9	1,374.26	9	996.16	9	618.13	9	257.24	9		9	9		9		9
1/4	2,122.90	1/4	1,744.64	1/4	1,366.38	1/4	988.30	1/4	610.25	1/4	250.38	1/4		1/4	1/4		1/4		1/4
1/2	2,115.02	1/2	1,736.76	1/2	1,358.50	1/2	980.43	1/2	602.37	1/2	243.53	1/2		1/2	1/2		1/2		1/2
3/4	2,107.14	3/4	1,728.88	3/4	1,350.62	3/4	972.56	3/4	594.49	3/4	236.68	3/4		3/4	3/4		3/4		3/4
10	2,099.26	10	1,721.00	10	1,342.74	10	964.69	10	586.61	10	229.82	10		10	10		10		10
1/4	2,091.38	1/4	1,713.12	1/4	1,334.86	1/4	956.82	1/4	578.73	1/4	223.08	1/4		1/4	1/4		1/4		1/4
1/2	2,083.50	1/2	1,705.24	1/2	1,326.98	1/2	948.95	1/2	570.85	1/2	216.33	1/2		1/2	1/2		1/2		1/2
3/4	2,075.62	3/4	1,697.36	3/4	1,319.10	3/4	941.09	3/4	562.97	3/4	209.59	3/4		3/4	3/4		3/4		3/4
11	2,067.74	11	1,689.48	11	1,311.22	11	933.22	11	555.09	11	202.84	11		11	11		11		11
1/4	2,059.85	1/4	1,681.60	1/4	1,303.34	1/4	925.35	1/4	547.22	1/4	196.21	1/4		1/4	1/4		1/4		1/4
1/2	2,051.97	1/2	1,673.72	1/2	1,295.46	1/2	917.48	1/2	539.35	1/2	189.57	1/2		1/2	1/2		1/2		1/2
3/4	2,044.09	3/4	1,665.83	3/4	1,287.58	3/4	909.61	3/4	531.48	3/4	182.94	3/4		3/4	3/4		3/4		3/4

STRAPPED: 11/04/2011 CL - SW  
CALCULATED: 11/04/2011 CL  
PRINTED: 11/04/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 28176"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.													
IN		IN	IN		IN	IN		IN	IN		IN	IN		IN	IN		IN	IN		IN	IN		IN	IN		IN	IN		IN											
0		0	0		0	0		0	0		0	4,454.59	0	4,131.52	0	3,793.31	0	3,440.41	0	3,082.87	0	2,723.87	1/4		1/4	4,764.96	1/4	4,448.01	1/4	4,124.62	1/4	3,786.10	1/4	3,432.96	1/4	3,075.39	1/4	2,716.39		
1/4		1/4	1/2		1/2	3/4		3/4	1		1	4,759.85	1/2	4,441.43	1/2	4,117.72	1/2	3,778.89	1/2	3,425.52	1/2	3,067.91	1/2	2,708.91	3/4		3/4	4,754.74	3/4	4,434.85	3/4	4,110.82	3/4	3,771.68	3/4	3,418.07	3/4	3,060.43	3/4	2,701.43
1		1	1		1	1		1	1		1	4,428.40	1	4,103.90	1	3,764.44	1	3,410.62	1	3,052.95	1	2,693.96	1/4		1/4	4,742.06	1/4	4,421.64	1/4	4,096.98	1/4	3,757.20	1/4	3,403.17	1/4	3,045.47	1/4	2,686.48		
1/4		1/4	1/2		1/2	3/4		3/4	1		1	4,735.72	1/2	4,415.04	1/2	4,090.06	1/2	3,749.96	1/2	3,395.73	1/2	3,037.99	1/2	2,679.00	3/4		3/4	4,729.38	3/4	4,408.44	3/4	4,083.14	3/4	3,742.72	3/4	3,388.28	3/4	3,030.51	3/4	2,671.52
2		2	2		2	2		2	2		2	4,722.15	2	4,401.80	2	4,076.20	2	3,735.46	2	3,380.83	2	3,023.04	2	2,664.04	1/4		1/4	4,714.93	1/4	4,395.17	1/4	4,069.25	1/4	3,728.20	1/4	3,373.39	1/4	3,015.56	1/4	2,656.56
1/4		1/4	1/2		1/2	3/4		3/4	2		2	4,707.70	1/2	4,388.54	1/2	4,062.31	1/2	3,720.94	1/2	3,365.94	1/2	3,008.08	1/2	2,649.08	3/4		3/4	4,700.47	3/4	4,381.91	3/4	4,055.36	3/4	3,713.68	3/4	3,358.49	3/4	3,000.60	3/4	2,641.60
3		3	3		3	3		3	3		3	4,693.03	3	4,375.25	3	4,048.39	3	3,706.39	3	3,351.05	3	2,993.12	3	2,634.12	1/4		1/4	4,685.58	1/4	4,368.60	1/4	4,041.41	1/4	3,699.10	1/4	3,343.60	1/4	2,985.64	1/4	2,626.64
1/4		1/4	1/2		1/2	3/4		3/4	3		3	4,678.13	1/2	4,361.94	1/2	4,034.44	1/2	3,691.82	1/2	3,336.15	1/2	2,978.16	1/2	2,619.16	3/4		3/4	4,670.69	3/4	4,355.28	3/4	4,027.47	3/4	3,684.53	3/4	3,328.70	3/4	2,970.68	3/4	2,611.69
4		4	4		4	4		4	4		4	4,663.64	4	4,348.60	4	4,020.47	4	3,677.21	4	3,321.26	4	2,963.20	4	2,604.21	1/4		1/4	4,656.59	1/4	4,341.91	1/4	4,013.47	1/4	3,669.90	1/4	3,313.81	1/4	2,955.72	1/4	2,596.73
1/4		1/4	1/2		1/2	3/4		3/4	4		4	4,649.54	1/2	4,335.23	1/2	4,006.47	1/2	3,662.59	1/2	3,306.36	1/2	2,948.24	1/2	2,589.25	3/4		3/4	4,642.49	3/4	4,328.54	3/4	3,999.47	3/4	3,655.27	3/4	3,298.92	3/4	2,940.77	3/4	2,581.77
5		5	5		5	5		5	5		5	4,636.09	5	4,321.83	5	3,992.45	5	3,647.93	5	3,291.47	5	2,933.29	5	2,574.29	1/4		1/4	4,629.70	1/4	4,315.12	1/4	3,985.42	1/4	3,640.59	1/4	3,284.02	1/4	2,925.81	1/4	2,566.81
1/4		1/4	1/2		1/2	3/4		3/4	5		5	4,623.30	1/2	4,308.41	1/2	3,978.40	1/2	3,633.25	1/2	3,276.58	1/2	2,918.33	1/2	2,559.33	3/4		3/4	4,616.90	3/4	4,301.70	3/4	3,971.37	3/4	3,625.91	3/4	3,269.13	3/4	2,910.85	3/4	2,551.85
6		6	6		6	6		6	6		6	4,610.48	6	4,294.97	6	3,964.32	6	3,618.54	6	3,261.68	6	2,903.37	6	2,544.37	1/4		1/4	4,604.06	1/4	4,288.23	1/4	3,957.27	1/4	3,611.18	1/4	3,254.23	1/4	2,895.89	1/4	2,536.89
1/4		1/4	1/2		1/2	3/4		3/4	6		6	4,597.64	1/2	4,281.49	1/2	3,950.22	1/2	3,603.81	1/2	3,246.79	1/2	2,888.41	1/2	2,529.42	3/4		3/4	4,591.22	3/4	4,274.76	3/4	3,943.17	3/4	3,596.44	3/4	3,239.34	3/4	2,880.93	3/4	2,521.94
7		7	7		7	7		7	7		7	4,584.77	7	4,267.99	7	3,936.09	7	3,589.05	7	3,231.89	7	2,873.45	7	2,514.46	1/4		1/4	4,578.32	1/4	4,261.23	1/4	3,929.01	1/4	3,581.66	1/4	3,224.45	1/4	2,865.97	1/4	2,506.98
1/4		1/4	1/2		1/2	3/4		3/4	7		7	4,571.87	1/2	4,254.47	1/2	3,921.93	1/2	3,574.26	1/2	3,217.00	1/2	2,858.50	1/2	2,499.50	3/4		3/4	4,565.42	3/4	4,247.70	3/4	3,914.85	3/4	3,566.87	3/4	3,209.55	3/4	2,851.02	3/4	2,492.02
8		8	8		8	8		8	8		8	4,558.94	8	4,240.91	8	3,907.75	8	3,559.45	8	3,202.11	8	2,843.54	8	2,484.54	1/4		1/4	4,552.47	1/4	4,234.12	1/4	3,900.64	1/4	3,552.03	1/4	3,194.66	1/4	2,836.06	1/4	2,477.06
1/4		1/4	1/2		1/2	3/4		3/4	8		8	4,545.99	1/2	4,227.33	1/2	3,893.54	1/2	3,544.61	1/2	3,187.21	1/2	2,828.58	1/2	2,469.58	3/4		3/4	4,539.52	3/4	4,220.54	3/4	3,886.43	3/4	3,537.19	3/4	3,179.76	3/4	2,821.10	3/4	2,462.10
9		9	9		9	9		9	9		9	4,533.01	9	4,213.72	9	3,879.30	9	3,529.75	9	3,172.32	9	2,813.62	9	2,454.62	1/4		1/4	4,526.51	1/4	4,206.90	1/4	3,872.17	1/4	3,522.31	1/4	3,164.87	1/4	2,806.14	1/4	2,447.15
1/4		1/4	1/2		1/2	3/4		3/4	9		9	4,520.01	1/2	4,200.09	1/2	3,865.03	1/2	3,514.87	1/2	3,157.42	1/2	2,798.66	1/2	2,439.67	3/4		3/4	4,513.50	3/4	4,193.27	3/4	3,857.90	3/4	3,507.43	3/4	3,149.98	3/4	2,791.18	3/4	2,432.19
10		10	10		10	10		10	10		10	4,506.98	10	4,186.43	10	3,850.74	10	3,499.99	10	3,142.53	10	2,783.70	10	2,424.71	1/4		1/4	4,500.45	1/4	4,179.58	1/4	3,843.59	1/4	3,492.54	1/4	3,135.08	1/4	2,776.23	1/4	2,417.23
1/4		1/4	1/2		1/2	3/4		3/4	10		10	4,493.92	1/2	4,172.74	1/2	3,836.43	1/2	3,485.09	1/2	3,127.64	1/2	2,768.75	1/2	2,409.75	3/4		3/4	4,487.39	3/4	4,165.89	3/4	3,829.27	3/4	3,477.64	3/4	3,120.19	3/4	2,761.27	3/4	2,402.27
11		11	11		11	11		11	11		11	4,480.83	11	4,159.02	11	3,822.08	11	3,470.20	11	3,112.73	11	2,753.79	11	2,394.79	1/4		1/4	4,474.28	1/4	4,152.15	1/4	3,814.90	1/4	3,462.75	1/4	3,105.27	1/4	2,746.31	1/4	2,387.31
1/4		1/4	1/2		1/2	3/4		3/4	11		11	4,467.72	1/2	4,145.28	1/2	3,807.71	1/2	3,455.30	1/2	3,097.81	1/2	2,738.83	1/2	2,379.83	3/4		3/4	4,461.16	3/4	4,138.41	3/4	3,800.53	3/4	3,447.86	3/4	3,090.35	3/4	2,731.35	3/4	2,372.35

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28176"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,364.88	0	2,005.88	0	1,646.88	0	1,296.51	0	951.72	0	594.40	0	235.41	0		0		0	
1/4	2,357.40	1/4	1,998.40	1/4	1,639.40	1/4	1,289.31	1/4	944.54	1/4	586.92	1/4	227.93	1/4	1/4	1/4		1/4	1/4
1/2	2,349.92	1/2	1,990.92	1/2	1,631.92	1/2	1,282.12	1/2	937.37	1/2	579.44	1/2	220.45	1/2	1/2	1/2		1/2	1/2
3/4	2,342.44	3/4	1,983.44	3/4	1,624.44	3/4	1,274.92	3/4	930.19	3/4	571.96	3/4	212.97	3/4	3/4	3/4		3/4	3/4
1	2,334.96	1	1,975.96	1	1,616.97	1	1,267.73	1	922.90	1	564.48	1	205.50	1	1	1		1	1
1/4	2,327.48	1/4	1,968.48	1/4	1,609.49	1/4	1,260.53	1/4	915.61	1/4	557.00	1/4	198.02	1/4	1/4	1/4		1/4	1/4
1/2	2,320.00	1/2	1,961.00	1/2	1,602.01	1/2	1,253.33	1/2	908.32	1/2	549.52	1/2	190.54	1/2	1/2	1/2		1/2	1/2
3/4	2,312.52	3/4	1,953.52	3/4	1,594.53	3/4	1,246.14	3/4	901.03	3/4	542.04	3/4	183.07	3/4	3/4	3/4		3/4	3/4
2	2,305.04	2	1,946.05	2	1,587.05	2	1,238.94	2	893.55	2	534.56	2	175.60	2	2	2		2	2
1/4	2,297.56	1/4	1,938.57	1/4	1,579.57	1/4	1,231.75	1/4	886.07	1/4	527.09	1/4	168.13	1/4	1/4	1/4		1/4	1/4
1/2	2,290.08	1/2	1,931.09	1/2	1,572.09	1/2	1,224.55	1/2	878.59	1/2	519.61	1/2	160.65	1/2	1/2	1/2		1/2	1/2
3/4	2,282.60	3/4	1,923.61	3/4	1,564.61	3/4	1,217.35	3/4	871.12	3/4	512.13	3/4	153.18	3/4	3/4	3/4		3/4	3/4
3	2,275.13	3	1,916.13	3	1,557.13	3	1,210.16	3	863.64	3	504.65	3	145.72	3	3	3		3	3
1/4	2,267.65	1/4	1,908.65	1/4	1,549.65	1/4	1,202.97	1/4	856.16	1/4	497.17	1/4	138.27	1/4	1/4	1/4		1/4	1/4
1/2	2,260.17	1/2	1,901.17	1/2	1,542.17	1/2	1,195.78	1/2	848.68	1/2	489.69	1/2	130.81	1/2	1/2	1/2		1/2	1/2
3/4	2,252.69	3/4	1,893.69	3/4	1,534.69	3/4	1,188.59	3/4	841.20	3/4	482.21	3/4	123.35	3/4	3/4	3/4		3/4	3/4
4	2,245.21	4	1,886.21	4	1,527.32	4	1,181.40	4	833.72	4	474.73	4	115.91	4	4	4		4	4
1/4	2,237.73	1/4	1,878.73	1/4	1,519.95	1/4	1,174.22	1/4	826.24	1/4	467.25	1/4	108.47	1/4	1/4	1/4		1/4	1/4
1/2	2,230.25	1/2	1,871.25	1/2	1,512.57	1/2	1,167.04	1/2	818.76	1/2	459.78	1/2	101.02	1/2	1/2	1/2		1/2	1/2
3/4	2,222.77	3/4	1,863.78	3/4	1,505.20	3/4	1,159.85	3/4	811.28	3/4	452.30	3/4	93.58	3/4	3/4	3/4		3/4	3/4
5	2,215.29	5	1,856.30	5	1,498.00	5	1,152.67	5	803.81	5	444.82	5	86.17	5	5	5		5	5
1/4	2,207.81	1/4	1,848.82	1/4	1,490.81	1/4	1,145.49	1/4	796.33	1/4	437.34	1/4	78.76	1/4	1/4	1/4		1/4	1/4
1/2	2,200.33	1/2	1,841.34	1/2	1,483.61	1/2	1,138.31	1/2	788.85	1/2	429.86	1/2	71.35	1/2	1/2	1/2		1/2	1/2
3/4	2,192.86	3/4	1,833.86	3/4	1,476.42	3/4	1,131.13	3/4	781.37	3/4	422.38	3/4	63.94	3/4	3/4	3/4		3/4	3/4
6	2,185.38	6	1,826.38	6	1,469.22	6	1,123.95	6	773.89	6	414.90	6	56.99	6	6	6		6	6
1/4	2,177.90	1/4	1,818.90	1/4	1,462.02	1/4	1,116.77	1/4	766.41	1/4	407.42	1/4	50.04	1/4	1/4	1/4		1/4	1/4
1/2	2,170.42	1/2	1,811.42	1/2	1,454.83	1/2	1,109.60	1/2	758.93	1/2	399.94	1/2	43.09	1/2	1/2	1/2		1/2	1/2
3/4	2,162.94	3/4	1,803.94	3/4	1,447.63	3/4	1,102.42	3/4	751.45	3/4	392.47	3/4	36.14	3/4	3/4	3/4		3/4	3/4
7	2,155.46	7	1,796.46	7	1,440.44	7	1,095.25	7	743.97	7	384.99	7	30.84	7	7	7		7	7
1/4	2,147.98	1/4	1,788.98	1/4	1,433.24	1/4	1,088.07	1/4	736.50	1/4	377.51	1/4	25.55	1/4	1/4	1/4		1/4	1/4
1/2	2,140.50	1/2	1,781.51	1/2	1,426.04	1/2	1,080.89	1/2	729.02	1/2	370.03	1/2	20.26	1/2	1/2	1/2		1/2	1/2
3/4	2,133.02	3/4	1,774.03	3/4	1,418.85	3/4	1,073.72	3/4	721.54	3/4	362.55	3/4	14.96	3/4	3/4	3/4		3/4	3/4
8	2,125.54	8	1,766.55	8	1,411.65	8	1,066.54	8	714.06	8	355.07	8		8	8	8		8	8
1/4	2,118.06	1/4	1,759.07	1/4	1,404.45	1/4	1,059.36	1/4	706.58	1/4	347.59	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,110.59	1/2	1,751.59	1/2	1,397.26	1/2	1,052.19	1/2	699.10	1/2	340.11	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,103.11	3/4	1,744.11	3/4	1,390.06	3/4	1,045.01	3/4	691.62	3/4	332.63	3/4		3/4	3/4	3/4		3/4	3/4
9	2,095.63	9	1,736.63	9	1,382.87	9	1,037.84	9	684.14	9	325.16	9		9	9	9		9	9
1/4	2,088.15	1/4	1,729.15	1/4	1,375.67	1/4	1,030.66	1/4	676.66	1/4	317.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,080.67	1/2	1,721.67	1/2	1,368.47	1/2	1,023.48	1/2	669.19	1/2	310.20	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,073.19	3/4	1,714.19	3/4	1,361.28	3/4	1,016.31	3/4	661.71	3/4	302.72	3/4		3/4	3/4	3/4		3/4	3/4
10	2,065.71	10	1,706.71	10	1,354.08	10	1,009.13	10	654.23	10	295.24	10		10	10	10		10	10
1/4	2,058.23	1/4	1,699.24	1/4	1,346.88	1/4	1,001.95	1/4	646.75	1/4	287.76	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,050.75	1/2	1,691.76	1/2	1,339.69	1/2	994.78	1/2	639.27	1/2	280.28	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,043.27	3/4	1,684.28	3/4	1,332.49	3/4	987.60	3/4	631.79	3/4	272.80	3/4		3/4	3/4	3/4		3/4	3/4
11	2,035.79	11	1,676.80	11	1,325.30	11	980.42	11	624.31	11	265.32	11		11	11	11		11	11
1/4	2,028.32	1/4	1,669.32	1/4	1,318.10	1/4	973.25	1/4	616.83	1/4	257.85	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,020.84	1/2	1,661.84	1/2	1,310.90	1/2	966.07	1/2	609.35	1/2	250.37	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,013.36	3/4	1,654.36	3/4	1,303.71	3/4	958.90	3/4	601.87	3/4	242.89	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2011 CL - SW  
CALCULATED: 11/04/2011 CL  
PRINTED: 11/04/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28176"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,768.48	0	4,447.91	0	4,123.09	0	3,783.15	0	3,428.95	0	3,071.09	0	2,711.92
1/4		1/4		1/4		1/4	4,762.14	1/4	4,441.30	1/4	4,116.17	1/4	3,775.90	1/4	3,421.50	1/4	3,063.61	1/4	2,704.43
1/2		1/2		1/2		1/2	4,755.80	1/2	4,434.69	1/2	4,109.24	1/2	3,768.66	1/2	3,414.05	1/2	3,056.12	1/2	2,696.95
3/4		3/4		3/4		3/4	4,748.57	3/4	4,428.06	3/4	4,102.30	3/4	3,761.40	3/4	3,406.59	3/4	3,048.64	3/4	2,689.47
1		1		1		1	4,741.33	1	4,421.43	1	4,095.35	1	3,754.13	1	3,399.14	1	3,041.16	1	2,681.98
1/4		1/4		1/4		1/4	4,734.10	1/4	4,414.79	1/4	4,088.40	1/4	3,746.87	1/4	3,391.69	1/4	3,033.68	1/4	2,674.50
1/2		1/2		1/2		1/2	4,726.87	1/2	4,408.16	1/2	4,081.45	1/2	3,739.60	1/2	3,384.24	1/2	3,026.19	1/2	2,667.02
3/4		3/4		3/4		3/4	4,719.42	3/4	4,401.50	3/4	4,074.47	3/4	3,732.31	3/4	3,376.79	3/4	3,018.71	3/4	2,659.54
2		2		2		2	4,711.97	2	4,394.84	2	4,067.50	2	3,725.02	2	3,369.34	2	3,011.23	2	2,652.05
1/4		1/4		1/4		1/4	4,704.52	1/4	4,388.18	1/4	4,060.52	1/4	3,717.73	1/4	3,361.89	1/4	3,003.74	1/4	2,644.57
1/2		1/2		1/2		1/2	4,697.07	1/2	4,381.52	1/2	4,053.54	1/2	3,710.44	1/2	3,354.44	1/2	2,996.26	1/2	2,637.09
3/4		3/4		3/4		3/4	4,690.02	3/4	4,374.83	3/4	4,046.54	3/4	3,703.12	3/4	3,346.99	3/4	2,988.78	3/4	2,629.60
3		3		3		3	4,682.97	3	4,368.14	3	4,039.54	3	3,695.80	3	3,339.54	3	2,981.30	3	2,622.12
1/4		1/4		1/4		1/4	4,675.91	1/4	4,361.45	1/4	4,032.54	1/4	3,688.48	1/4	3,332.09	1/4	2,973.81	1/4	2,614.64
1/2		1/2		1/2		1/2	4,668.86	1/2	4,354.77	1/2	4,025.54	1/2	3,681.17	1/2	3,324.64	1/2	2,966.33	1/2	2,607.16
3/4		3/4		3/4		3/4	4,662.46	3/4	4,348.05	3/4	4,018.51	3/4	3,673.82	3/4	3,317.19	3/4	2,958.85	3/4	2,599.67
4		4		4		4	4,656.06	4	4,341.34	4	4,011.48	4	3,666.48	4	3,309.74	4	2,951.36	4	2,592.19
1/4		1/4		1/4		1/4	4,649.66	1/4	4,334.63	1/4	4,004.45	1/4	3,659.14	1/4	3,302.29	1/4	2,943.88	1/4	2,584.71
1/2		1/2		1/2		1/2	4,643.26	1/2	4,327.91	1/2	3,997.42	1/2	3,651.79	1/2	3,294.84	1/2	2,936.40	1/2	2,577.22
3/4		3/4		3/4		3/4	4,636.84	3/4	4,321.17	3/4	3,990.36	3/4	3,644.42	3/4	3,287.39	3/4	2,928.92	3/4	2,569.74
5		5		5		5	4,630.41	5	4,314.43	5	3,983.31	5	3,637.05	5	3,279.93	5	2,921.43	5	2,562.26
1/4		1/4		1/4		1/4	4,623.99	1/4	4,307.69	1/4	3,976.25	1/4	3,629.68	1/4	3,272.48	1/4	2,913.95	1/4	2,554.78
1/2		1/2		1/2		1/2	4,617.56	1/2	4,300.95	1/2	3,969.20	1/2	3,622.31	1/2	3,265.03	1/2	2,906.47	1/2	2,547.29
3/4		3/4		3/4		3/4	4,611.11	3/4	4,294.18	3/4	3,962.12	3/4	3,614.91	3/4	3,257.58	3/4	2,898.99	3/4	2,539.81
6		6		6		6	4,604.66	6	4,287.42	6	3,955.03	6	3,607.51	6	3,250.13	6	2,891.50	6	2,532.33
1/4		1/4		1/4		1/4	4,598.21	1/4	4,280.65	1/4	3,947.95	1/4	3,600.12	1/4	3,242.68	1/4	2,884.02	1/4	2,524.85
1/2		1/2		1/2		1/2	4,591.75	1/2	4,273.88	1/2	3,940.87	1/2	3,592.72	1/2	3,235.23	1/2	2,876.54	1/2	2,517.36
3/4		3/4		3/4		3/4	4,585.27	3/4	4,267.09	3/4	3,933.76	3/4	3,585.30	3/4	3,227.78	3/4	2,869.05	3/4	2,509.88
7		7		7		7	4,578.80	7	4,260.29	7	3,926.65	7	3,577.87	7	3,220.33	7	2,861.57	7	2,502.40
1/4		1/4		1/4		1/4	4,572.32	1/4	4,253.50	1/4	3,919.55	1/4	3,570.45	1/4	3,212.88	1/4	2,854.09	1/4	2,494.91
1/2		1/2		1/2		1/2	4,565.84	1/2	4,246.71	1/2	3,912.44	1/2	3,563.03	1/2	3,205.43	1/2	2,846.61	1/2	2,487.43
3/4		3/4		3/4		3/4	4,559.33	3/4	4,239.89	3/4	3,905.30	3/4	3,555.58	3/4	3,197.98	3/4	2,839.12	3/4	2,479.95
8		8		8		8	4,552.83	8	4,233.07	8	3,898.17	8	3,548.14	8	3,190.53	8	2,831.64	8	2,472.47
1/4		1/4		1/4		1/4	4,546.32	1/4	4,226.25	1/4	3,891.03	1/4	3,540.70	1/4	3,183.08	1/4	2,824.16	1/4	2,464.98
1/2		1/2		1/2		1/2	4,539.81	1/2	4,219.43	1/2	3,883.89	1/2	3,533.26	1/2	3,175.63	1/2	2,816.67	1/2	2,457.50
3/4		3/4		3/4		3/4	4,533.28	3/4	4,212.58	3/4	3,876.73	3/4	3,525.80	3/4	3,168.18	3/4	2,809.19	3/4	2,450.02
9		9		9		9	4,526.75	9	4,205.73	9	3,869.57	9	3,518.35	9	3,160.72	9	2,801.71	9	2,442.53
1/4		1/4		1/4		1/4	4,520.22	1/4	4,198.88	1/4	3,862.41	1/4	3,510.90	1/4	3,153.27	1/4	2,794.23	1/4	2,435.05
1/2		1/2		1/2		1/2	4,513.69	1/2	4,192.04	1/2	3,855.25	1/2	3,503.45	1/2	3,145.82	1/2	2,786.74	1/2	2,427.57
3/4		3/4		3/4		3/4	4,507.13	3/4	4,185.16	3/4	3,848.06	3/4	3,496.00	3/4	3,138.36	3/4	2,779.26	3/4	2,420.09
10		10		10		10	4,500.57	10	4,178.29	10	3,840.87	10	3,488.55	10	3,130.91	10	2,771.78	10	2,412.60
1/4		1/4		1/4		1/4	4,494.01	1/4	4,171.42	1/4	3,833.68	1/4	3,481.10	1/4	3,123.45	1/4	2,764.29	1/4	2,405.12
1/2		1/2		1/2		1/2	4,487.45	1/2	4,164.54	1/2	3,826.49	1/2	3,473.65	1/2	3,115.99	1/2	2,756.81	1/2	2,397.64
3/4		3/4		3/4		3/4	4,480.87	3/4	4,157.64	3/4	3,819.28	3/4	3,466.20	3/4	3,108.50	3/4	2,749.33	3/4	2,390.15
11		11		11	4,791.40	11	4,474.29	11	4,150.74	11	3,812.06	11	3,458.75	11	3,101.02	11	2,741.85	11	2,382.67
1/4		1/4		1/4	4,786.28	1/4	4,467.70	1/4	4,143.84	1/4	3,804.85	1/4	3,451.30	1/4	3,093.54	1/4	2,734.36	1/4	2,375.19
1/2		1/2		1/2	4,781.17	1/2	4,461.12	1/2	4,136.94	1/2	3,797.63	1/2	3,443.85	1/2	3,086.06	1/2	2,726.88	1/2	2,367.71
3/4		3/4		3/4	4,774.83	3/4	4,454.52	3/4	4,130.01	3/4	3,790.39	3/4	3,436.40	3/4	3,078.57	3/4	2,719.40	3/4	2,360.22

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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







# BARGE "KIRBY 28176"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

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	2,345.26	1/4	1,986.08	1/4	1,626.91	1/4	1,267.73	1/4	908.91	1/4	549.79	1/4	190.64	1/4		1/4		1/4	
1/2	2,337.78	1/2	1,978.60	1/2	1,619.43	1/2	1,260.25	1/2	901.44	1/2	542.31	1/2	183.15	1/2		1/2		1/2	
3/4	2,330.29	3/4	1,971.12	3/4	1,611.94	3/4	1,252.77	3/4	893.96	3/4	534.82	3/4	175.68	3/4		3/4		3/4	
1	2,322.81	1	1,963.64	1	1,604.46	1	1,245.29	1	886.49	1	527.34	1	168.21	1		1		1	
1/4	2,315.33	1/4	1,956.15	1/4	1,596.98	1/4	1,237.80	1/4	879.01	1/4	519.86	1/4	160.73	1/4		1/4		1/4	
1/2	2,307.84	1/2	1,948.67	1/2	1,589.50	1/2	1,230.32	1/2	871.54	1/2	512.38	1/2	153.26	1/2		1/2		1/2	
3/4	2,300.36	3/4	1,941.19	3/4	1,582.01	3/4	1,222.84	3/4	864.05	3/4	504.89	3/4	145.80	3/4		3/4		3/4	
2	2,292.88	2	1,933.70	2	1,574.53	2	1,215.36	2	856.57	2	497.41	2	138.33	2		2		2	
1/4	2,285.40	1/4	1,926.22	1/4	1,567.05	1/4	1,207.87	1/4	849.09	1/4	489.93	1/4	130.87	1/4		1/4		1/4	
1/2	2,277.91	1/2	1,918.74	1/2	1,559.56	1/2	1,200.39	1/2	841.61	1/2	482.45	1/2	123.41	1/2		1/2		1/2	
3/4	2,270.43	3/4	1,911.26	3/4	1,552.08	3/4	1,192.91	3/4	834.12	3/4	474.96	3/4	115.96	3/4		3/4		3/4	
3	2,262.95	3	1,903.77	3	1,544.60	3	1,185.42	3	826.64	3	467.48	3	108.52	3		3		3	
1/4	2,255.46	1/4	1,896.29	1/4	1,537.12	1/4	1,177.94	1/4	819.16	1/4	460.00	1/4	101.07	1/4		1/4		1/4	
1/2	2,247.98	1/2	1,888.81	1/2	1,529.63	1/2	1,170.46	1/2	811.68	1/2	452.52	1/2	93.63	1/2		1/2		1/2	
3/4	2,240.50	3/4	1,881.32	3/4	1,522.15	3/4	1,162.98	3/4	804.19	3/4	445.03	3/4	86.21	3/4		3/4		3/4	
4	2,233.02	4	1,873.84	4	1,514.67	4	1,155.49	4	796.71	4	437.55	4	78.80	4		4		4	
1/4	2,225.53	1/4	1,866.36	1/4	1,507.18	1/4	1,148.01	1/4	789.23	1/4	430.07	1/4	71.39	1/4		1/4		1/4	
1/2	2,218.05	1/2	1,858.88	1/2	1,499.70	1/2	1,140.53	1/2	781.75	1/2	422.59	1/2	63.97	1/2		1/2		1/2	
3/4	2,210.57	3/4	1,851.39	3/4	1,492.22	3/4	1,133.05	3/4	774.26	3/4	415.10	3/4	57.02	3/4		3/4		3/4	
5	2,203.08	5	1,843.91	5	1,484.74	5	1,125.57	5	766.78	5	407.62	5	50.07	5		5		5	
1/4	2,195.60	1/4	1,836.43	1/4	1,477.25	1/4	1,118.09	1/4	759.30	1/4	400.14	1/4	43.11	1/4		1/4		1/4	
1/2	2,188.12	1/2	1,828.94	1/2	1,469.77	1/2	1,110.61	1/2	751.82	1/2	392.66	1/2	36.16	1/2		1/2		1/2	
3/4	2,180.64	3/4	1,821.46	3/4	1,462.29	3/4	1,103.14	3/4	744.33	3/4	385.17	3/4	30.86	3/4		3/4		3/4	
6	2,173.15	6	1,813.98	6	1,454.80	6	1,095.67	6	736.85	6	377.69	6	25.56	6		6		6	
1/4	2,165.67	1/4	1,806.50	1/4	1,447.32	1/4	1,088.20	1/4	729.37	1/4	370.21	1/4	20.26	1/4		1/4		1/4	
1/2	2,158.19	1/2	1,799.01	1/2	1,439.84	1/2	1,080.73	1/2	721.89	1/2	362.73	1/2	14.97	1/2		1/2		1/2	
3/4	2,150.71	3/4	1,791.53	3/4	1,432.36	3/4	1,073.26	3/4	714.40	3/4	355.24	3/4		3/4		3/4		3/4	
7	2,143.22	7	1,784.05	7	1,424.87	7	1,065.79	7	706.92	7	347.76	7		7		7		7	
1/4	2,135.74	1/4	1,776.57	1/4	1,417.39	1/4	1,058.32	1/4	699.44	1/4	340.28	1/4		1/4		1/4		1/4	
1/2	2,128.26	1/2	1,769.08	1/2	1,409.91	1/2	1,050.85	1/2	691.96	1/2	332.80	1/2		1/2		1/2		1/2	
3/4	2,120.77	3/4	1,761.60	3/4	1,402.43	3/4	1,043.38	3/4	684.47	3/4	325.31	3/4		3/4		3/4		3/4	
8	2,113.29	8	1,754.12	8	1,394.94	8	1,035.91	8	676.99	8	317.83	8		8		8		8	
1/4	2,105.81	1/4	1,746.63	1/4	1,387.46	1/4	1,028.44	1/4	669.51	1/4	310.35	1/4		1/4		1/4		1/4	
1/2	2,098.33	1/2	1,739.15	1/2	1,379.98	1/2	1,020.97	1/2	662.03	1/2	302.87	1/2		1/2		1/2		1/2	
3/4	2,090.84	3/4	1,731.67	3/4	1,372.49	3/4	1,013.50	3/4	654.54	3/4	295.38	3/4		3/4		3/4		3/4	
9	2,083.36	9	1,724.19	9	1,365.01	9	1,006.03	9	647.06	9	287.90	9		9		9		9	
1/4	2,075.88	1/4	1,716.70	1/4	1,357.53	1/4	998.56	1/4	639.58	1/4	280.42	1/4		1/4		1/4		1/4	
1/2	2,068.39	1/2	1,709.22	1/2	1,350.05	1/2	991.08	1/2	632.10	1/2	272.94	1/2		1/2		1/2		1/2	
3/4	2,060.91	3/4	1,701.74	3/4	1,342.56	3/4	983.61	3/4	624.61	3/4	265.45	3/4		3/4		3/4		3/4	
10	2,053.43	10	1,694.25	10	1,335.08	10	976.14	10	617.13	10	257.97	10		10		10		10	
1/4	2,045.95	1/4	1,686.77	1/4	1,327.60	1/4	968.67	1/4	609.65	1/4	250.49	1/4		1/4		1/4		1/4	
1/2	2,038.46	1/2	1,679.29	1/2	1,320.11	1/2	961.20	1/2	602.17	1/2	243.01	1/2		1/2		1/2		1/2	
3/4	2,030.98	3/4	1,671.81	3/4	1,312.63	3/4	953.73	3/4	594.68	3/4	235.52	3/4		3/4		3/4		3/4	
11	2,023.50	11	1,664.32	11	1,305.15	11	946.26	11	587.20	11	228.04	11		11		11		11	
1/4	2,016.01	1/4	1,656.84	1/4	1,297.67	1/4	938.79	1/4	579.72	1/4	220.56	1/4		1/4		1/4		1/4	
1/2	2,008.53	1/2	1,649.36	1/2	1,290.18	1/2	931.32	1/2	572.24	1/2	213.08	1/2		1/2		1/2		1/2	
3/4	2,001.05	3/4	1,641.87	3/4	1,282.70	3/4	923.85	3/4	564.75	3/4	205.60	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2011 CL - SW  
CALCULATED: 11/04/2011 CL  
PRINTED: 11/04/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28176"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,339.08	0	4,094.64	0	3,846.78	0	3,586.93	0	3,310.55	0	2,954.47	0	2,597.76
1/4		1/4		1/4		1/4	4,334.92	1/4	4,089.61	1/4	3,841.50	1/4	3,581.40	1/4	3,303.11	1/4	2,947.04	1/4	2,590.33
1/2		1/2		1/2		1/2	4,329.56	1/2	4,084.55	1/2	3,836.19	1/2	3,575.84	1/2	3,295.68	1/2	2,939.61	1/2	2,582.90
3/4		3/4		3/4		3/4	4,324.20	3/4	4,079.50	3/4	3,830.89	3/4	3,570.29	3/4	3,288.25	3/4	2,932.18	3/4	2,575.47
1		1		1		1	4,318.84	1	4,074.44	1	3,825.59	1	3,564.73	1	3,280.81	1	2,924.75	1	2,568.04
1/4		1/4		1/4		1/4	4,313.48	1/4	4,069.39	1/4	3,820.29	1/4	3,559.18	1/4	3,273.38	1/4	2,917.31	1/4	2,560.61
1/2		1/2		1/2		1/2	4,307.77	1/2	4,064.32	1/2	3,814.96	1/2	3,553.61	1/2	3,265.94	1/2	2,909.88	1/2	2,553.18
3/4		3/4		3/4		3/4	4,302.06	3/4	4,059.24	3/4	3,809.64	3/4	3,548.04	3/4	3,258.51	3/4	2,902.45	3/4	2,545.74
2		2		2		2	4,296.36	2	4,054.17	2	3,804.31	2	3,542.46	2	3,251.07	2	2,895.02	2	2,538.31
1/4		1/4		1/4		1/4	4,290.65	1/4	4,049.10	1/4	3,798.99	1/4	3,536.89	1/4	3,243.64	1/4	2,887.59	1/4	2,530.88
1/2		1/2		1/2		1/2	4,284.94	1/2	4,044.00	1/2	3,793.64	1/2	3,531.29	1/2	3,236.20	1/2	2,880.16	1/2	2,523.45
3/4		3/4		3/4		3/4	4,279.23	3/4	4,038.91	3/4	3,788.30	3/4	3,525.70	3/4	3,228.77	3/4	2,872.73	3/4	2,516.02
3		3		3		3	4,273.52	3	4,033.81	3	3,782.96	3	3,520.10	3	3,221.34	3	2,865.29	3	2,508.59
1/4		1/4		1/4		1/4	4,267.81	1/4	4,028.71	1/4	3,777.61	1/4	3,514.51	1/4	3,213.90	1/4	2,857.86	1/4	2,501.16
1/2		1/2		1/2		1/2	4,262.94	1/2	4,023.60	1/2	3,772.24	1/2	3,508.89	1/2	3,206.49	1/2	2,850.43	1/2	2,493.72
3/4		3/4		3/4		3/4	4,258.08	3/4	4,018.48	3/4	3,766.88	3/4	3,503.28	3/4	3,199.09	3/4	2,843.00	3/4	2,486.29
4		4		4		4	4,253.21	4	4,013.37	4	3,761.51	4	3,497.66	4	3,191.68	4	2,835.57	4	2,478.86
1/4		1/4		1/4		1/4	4,248.34	1/4	4,008.26	1/4	3,756.14	1/4	3,492.05	1/4	3,184.27	1/4	2,828.14	1/4	2,471.43
1/2		1/2		1/2		1/2	4,243.46	1/2	4,003.12	1/2	3,750.76	1/2	3,486.41	1/2	3,176.86	1/2	2,820.71	1/2	2,464.00
3/4		3/4		3/4		3/4	4,238.57	3/4	3,997.98	3/4	3,745.37	3/4	3,480.77	3/4	3,169.46	3/4	2,813.27	3/4	2,456.57
5		5		5		5	4,233.69	5	3,992.84	5	3,739.99	5	3,475.13	5	3,162.05	5	2,805.84	5	2,449.14
1/4		1/4		1/4		1/4	4,228.80	1/4	3,987.70	1/4	3,734.60	1/4	3,469.50	1/4	3,154.64	1/4	2,798.41	1/4	2,441.70
1/2		1/2		1/2		1/2	4,223.89	1/2	3,982.54	1/2	3,729.19	1/2	3,463.84	1/2	3,147.23	1/2	2,790.98	1/2	2,434.27
3/4		3/4		3/4		3/4	4,218.98	3/4	3,977.39	3/4	3,723.78	3/4	3,458.18	3/4	3,139.83	3/4	2,783.55	3/4	2,426.84
6		6		6		6	4,214.07	6	3,972.23	6	3,718.37	6	3,452.52	6	3,132.42	6	2,776.12	6	2,419.41
1/4		1/4		1/4		1/4	4,209.16	1/4	3,967.07	1/4	3,712.96	1/4	3,446.87	1/4	3,125.01	1/4	2,768.69	1/4	2,411.98
1/2		1/2		1/2		1/2	4,204.23	1/2	3,961.89	1/2	3,707.54	1/2	3,441.19	1/2	3,117.60	1/2	2,761.25	1/2	2,404.55
3/4		3/4		3/4		3/4	4,199.30	3/4	3,956.71	3/4	3,702.11	3/4	3,435.51	3/4	3,110.20	3/4	2,753.82	3/4	2,397.12
7		7		7		7	4,194.38	7	3,951.53	7	3,696.68	7	3,429.83	7	3,102.79	7	2,746.39	7	2,389.68
1/4		1/4		1/4		1/4	4,189.45	1/4	3,946.35	1/4	3,691.25	1/4	3,424.15	1/4	3,095.38	1/4	2,738.96	1/4	2,382.25
1/2		1/2		1/2		1/2	4,184.50	1/2	3,941.15	1/2	3,685.80	1/2	3,418.45	1/2	3,087.97	1/2	2,731.53	1/2	2,374.82
3/4		3/4		3/4		3/4	4,179.54	3/4	3,935.95	3/4	3,680.35	3/4	3,412.75	3/4	3,080.57	3/4	2,724.10	3/4	2,367.39
8		8		8		8	4,174.59	8	3,930.75	8	3,674.90	8	3,407.05	8	3,073.16	8	2,716.67	8	2,359.96
1/4		1/4		1/4		1/4	4,169.64	1/4	3,925.55	1/4	3,669.45	1/4	3,401.35	1/4	3,065.75	1/4	2,709.23	1/4	2,352.53
1/2		1/2		1/2		1/2	4,164.67	1/2	3,920.33	1/2	3,663.98	1/2	3,395.64	1/2	3,058.34	1/2	2,701.80	1/2	2,345.09
3/4		3/4		3/4		3/4	4,159.70	3/4	3,915.11	3/4	3,658.51	3/4	3,389.94	3/4	3,050.94	3/4	2,694.37	3/4	2,337.66
9		9		9		9	4,154.73	9	3,909.88	9	3,653.04	9	3,384.23	9	3,043.53	9	2,686.94	9	2,330.23
1/4		1/4		1/4		1/4	4,149.76	1/4	3,904.66	1/4	3,647.57	1/4	3,378.52	1/4	3,036.12	1/4	2,679.51	1/4	2,322.80
1/2		1/2		1/2		1/2	4,144.76	1/2	3,899.42	1/2	3,642.07	1/2	3,372.81	1/2	3,028.71	1/2	2,672.08	1/2	2,315.37
3/4		3/4		3/4		3/4	4,139.77	3/4	3,894.18	3/4	3,636.58	3/4	3,367.10	3/4	3,021.31	3/4	2,664.65	3/4	2,307.93
10		10		10		10	4,134.77	10	3,888.94	10	3,631.09	10	3,361.39	10	3,013.90	10	2,657.21	10	2,300.50
1/4		1/4		1/4	4,370.09	1/4	4,129.78	1/4	3,883.70	1/4	3,625.59	1/4	3,355.69	1/4	3,006.49	1/4	2,649.78	1/4	2,293.07
1/2		1/2		1/2	4,365.45	1/2	4,124.76	1/2	3,878.43	1/2	3,620.08	1/2	3,349.98	1/2	2,999.06	1/2	2,642.35	1/2	2,285.64
3/4		3/4		3/4	4,360.82	3/4	4,119.75	3/4	3,873.16	3/4	3,614.57	3/4	3,344.27	3/4	2,991.63	3/4	2,634.92	3/4	2,278.21
11		11		11	4,356.18	11	4,114.74	11	3,867.90	11	3,609.06	11	3,338.56	11	2,984.20	11	2,627.49	11	2,270.77
1/4		1/4		1/4	4,351.54	1/4	4,109.73	1/4	3,862.63	1/4	3,603.55	1/4	3,332.85	1/4	2,976.77	1/4	2,620.06	1/4	2,263.34
1/2		1/2		1/2	4,347.39	1/2	4,104.70	1/2	3,857.35	1/2	3,598.01	1/2	3,325.42	1/2	2,969.33	1/2	2,612.63	1/2	2,255.91
3/4		3/4		3/4	4,343.23	3/4	4,099.67	3/4	3,852.06	3/4	3,592.47	3/4	3,317.98	3/4	2,961.90	3/4	2,605.20	3/4	2,248.48

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-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 "KIRBY 28176"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,241.05	0	1,883.90	0	1,527.67	0	1,172.14	0	826.39	0	469.03	0	111.56	0		0		0	
1/4	2,233.62	1/4	1,876.48	1/4	1,520.23	1/4	1,164.96	1/4	818.96	1/4	461.58	1/4	104.11	1/4	1/4	1/4		1/4	
1/2	2,226.18	1/2	1,869.06	1/2	1,512.78	1/2	1,157.79	1/2	811.54	1/2	454.13	1/2	96.98	1/2	1/2	1/2		1/2	
3/4	2,218.75	3/4	1,861.64	3/4	1,505.33	3/4	1,150.61	3/4	804.11	3/4	446.68	3/4	89.85	3/4	3/4	3/4		3/4	
1	2,211.32	1	1,854.22	1	1,497.89	1	1,143.43	1	796.69	1	439.24	1	82.71	1	1	1		1	
1/4	2,203.89	1/4	1,846.80	1/4	1,490.44	1/4	1,136.25	1/4	789.26	1/4	431.79	1/4	75.58	1/4	1/4	1/4		1/4	
1/2	2,196.46	1/2	1,839.38	1/2	1,483.00	1/2	1,129.07	1/2	781.81	1/2	424.34	1/2	69.39	1/2	1/2	1/2		1/2	
3/4	2,189.02	3/4	1,831.96	3/4	1,475.55	3/4	1,121.90	3/4	774.36	3/4	416.89	3/4	63.20	3/4	3/4	3/4		3/4	
2	2,181.59	2	1,824.54	2	1,468.10	2	1,114.72	2	766.92	2	409.45	2	57.01	2	2	2		2	
1/4	2,174.16	1/4	1,817.12	1/4	1,460.66	1/4	1,107.54	1/4	759.47	1/4	402.00	1/4	50.82	1/4	1/4	1/4		1/4	
1/2	2,166.73	1/2	1,809.70	1/2	1,453.21	1/2	1,100.36	1/2	752.02	1/2	394.55	1/2	45.89	1/2	1/2	1/2		1/2	
3/4	2,159.30	3/4	1,802.28	3/4	1,445.77	3/4	1,093.19	3/4	744.58	3/4	387.11	3/4	40.95	3/4	3/4	3/4		3/4	
3	2,151.86	3	1,794.86	3	1,438.32	3	1,086.01	3	737.13	3	379.66	3	36.02	3	3	3		3	
1/4	2,144.43	1/4	1,787.44	1/4	1,430.87	1/4	1,078.83	1/4	729.68	1/4	372.21	1/4	31.09	1/4	1/4	1/4		1/4	
1/2	2,136.99	1/2	1,780.02	1/2	1,423.43	1/2	1,071.67	1/2	722.23	1/2	364.76	1/2	27.42	1/2	1/2	1/2		1/2	
3/4	2,129.54	3/4	1,772.60	3/4	1,415.98	3/4	1,064.50	3/4	714.79	3/4	357.32	3/4	23.75	3/4	3/4	3/4		3/4	
4	2,122.09	4	1,765.18	4	1,408.54	4	1,057.34	4	707.34	4	349.87	4	20.08	4	4	4		4	
1/4	2,114.65	1/4	1,757.76	1/4	1,401.09	1/4	1,050.17	1/4	699.89	1/4	342.42	1/4	16.41	1/4	1/4	1/4		1/4	
1/2	2,107.20	1/2	1,750.34	1/2	1,393.64	1/2	1,043.01	1/2	692.44	1/2	334.97	1/2		1/2	1/2	1/2		1/2	
3/4	2,099.76	3/4	1,742.92	3/4	1,386.20	3/4	1,035.85	3/4	685.00	3/4	327.53	3/4		3/4	3/4	3/4		3/4	
5	2,092.31	5	1,735.50	5	1,378.75	5	1,028.68	5	677.55	5	320.08	5		5	5	5		5	
1/4	2,084.86	1/4	1,728.09	1/4	1,371.31	1/4	1,021.52	1/4	670.10	1/4	312.63	1/4		1/4	1/4	1/4		1/4	
1/2	2,077.42	1/2	1,720.67	1/2	1,363.86	1/2	1,014.36	1/2	662.66	1/2	305.18	1/2		1/2	1/2	1/2		1/2	
3/4	2,069.97	3/4	1,713.25	3/4	1,356.41	3/4	1,007.20	3/4	655.21	3/4	297.74	3/4		3/4	3/4	3/4		3/4	
6	2,062.53	6	1,705.83	6	1,348.97	6	1,000.04	6	647.76	6	290.29	6		6	6	6		6	
1/4	2,055.08	1/4	1,698.41	1/4	1,341.52	1/4	992.88	1/4	640.31	1/4	282.84	1/4		1/4	1/4	1/4		1/4	
1/2	2,047.63	1/2	1,690.99	1/2	1,334.08	1/2	985.72	1/2	632.87	1/2	275.40	1/2		1/2	1/2	1/2		1/2	
3/4	2,040.19	3/4	1,683.57	3/4	1,326.63	3/4	978.57	3/4	625.42	3/4	267.95	3/4		3/4	3/4	3/4		3/4	
7	2,032.74	7	1,676.15	7	1,319.18	7	971.41	7	617.97	7	260.50	7		7	7	7		7	
1/4	2,025.30	1/4	1,668.73	1/4	1,311.74	1/4	964.25	1/4	610.52	1/4	253.05	1/4		1/4	1/4	1/4		1/4	
1/2	2,017.85	1/2	1,661.31	1/2	1,304.29	1/2	957.10	1/2	603.08	1/2	245.61	1/2		1/2	1/2	1/2		1/2	
3/4	2,010.40	3/4	1,653.89	3/4	1,296.85	3/4	949.94	3/4	595.63	3/4	238.16	3/4		3/4	3/4	3/4		3/4	
8	2,002.96	8	1,646.47	8	1,289.40	8	942.78	8	588.18	8	230.71	8		8	8	8		8	
1/4	1,995.51	1/4	1,639.05	1/4	1,281.95	1/4	935.63	1/4	580.74	1/4	223.26	1/4		1/4	1/4	1/4		1/4	
1/2	1,988.07	1/2	1,631.63	1/2	1,274.51	1/2	928.47	1/2	573.29	1/2	215.82	1/2		1/2	1/2	1/2		1/2	
3/4	1,980.62	3/4	1,624.21	3/4	1,267.06	3/4	921.31	3/4	565.84	3/4	208.37	3/4		3/4	3/4	3/4		3/4	
9	1,973.17	9	1,616.79	9	1,259.62	9	914.16	9	558.39	9	200.92	9		9	9	9		9	
1/4	1,965.73	1/4	1,609.37	1/4	1,252.17	1/4	907.00	1/4	550.95	1/4	193.48	1/4		1/4	1/4	1/4		1/4	
1/2	1,958.28	1/2	1,601.95	1/2	1,244.72	1/2	899.84	1/2	543.50	1/2	186.03	1/2		1/2	1/2	1/2		1/2	
3/4	1,950.84	3/4	1,594.53	3/4	1,237.28	3/4	892.69	3/4	536.05	3/4	178.58	3/4		3/4	3/4	3/4		3/4	
10	1,943.39	10	1,587.11	10	1,229.83	10	885.53	10	528.60	10	171.13	10		10	10	10		10	
1/4	1,935.94	1/4	1,579.69	1/4	1,222.39	1/4	878.38	1/4	521.16	1/4	163.69	1/4		1/4	1/4	1/4		1/4	
1/2	1,928.50	1/2	1,572.27	1/2	1,215.21	1/2	870.95	1/2	513.71	1/2	156.24	1/2		1/2	1/2	1/2		1/2	
3/4	1,921.05	3/4	1,564.85	3/4	1,208.03	3/4	863.52	3/4	506.26	3/4	148.79	3/4		3/4	3/4	3/4		3/4	
11	1,913.61	11	1,557.43	11	1,200.85	11	856.10	11	498.81	11	141.34	11		11	11	11		11	
1/4	1,906.16	1/4	1,550.01	1/4	1,193.67	1/4	848.67	1/4	491.37	1/4	133.90	1/4		1/4	1/4	1/4		1/4	
1/2	1,898.74	1/2	1,542.56	1/2	1,186.50	1/2	841.24	1/2	483.92	1/2	126.45	1/2		1/2	1/2	1/2		1/2	
3/4	1,891.32	3/4	1,535.12	3/4	1,179.32	3/4	833.82	3/4	476.47	3/4	119.00	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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





# BARGE "KIRBY 28176"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,257.93	0	1,900.15	0	1,542.37	0	1,184.59	0	827.14	0	469.43	0	111.66	0		0		0	
1/4	2,250.47	1/4	1,892.70	1/4	1,534.92	1/4	1,177.14	1/4	819.70	1/4	461.98	1/4	104.21	1/4		1/4		1/4	
1/2	2,243.02	1/2	1,885.24	1/2	1,527.46	1/2	1,169.69	1/2	812.25	1/2	454.52	1/2	97.07	1/2		1/2		1/2	
3/4	2,235.57	3/4	1,877.79	3/4	1,520.01	3/4	1,162.23	3/4	804.81	3/4	447.07	3/4	89.93	3/4		3/4		3/4	
1	2,228.11	1	1,870.33	1	1,512.56	1	1,154.78	1	797.37	1	439.61	1	82.79	1		1		1	
1/4	2,220.66	1/4	1,862.88	1/4	1,505.10	1/4	1,147.33	1/4	789.93	1/4	432.16	1/4	75.66	1/4		1/4		1/4	
1/2	2,213.20	1/2	1,855.43	1/2	1,497.65	1/2	1,139.87	1/2	782.48	1/2	424.71	1/2	69.46	1/2		1/2		1/2	
3/4	2,205.75	3/4	1,847.97	3/4	1,490.20	3/4	1,132.42	3/4	775.02	3/4	417.25	3/4	63.26	3/4		3/4		3/4	
2	2,198.30	2	1,840.52	2	1,482.74	2	1,124.96	2	767.57	2	409.80	2	57.06	2		2		2	
1/4	2,190.84	1/4	1,833.07	1/4	1,475.29	1/4	1,117.51	1/4	760.12	1/4	402.35	1/4	50.87	1/4		1/4		1/4	
1/2	2,183.39	1/2	1,825.61	1/2	1,467.83	1/2	1,110.06	1/2	752.66	1/2	394.89	1/2	45.92	1/2		1/2		1/2	
3/4	2,175.94	3/4	1,818.16	3/4	1,460.38	3/4	1,102.60	3/4	745.21	3/4	387.44	3/4	40.98	3/4		3/4		3/4	
3	2,168.48	3	1,810.71	3	1,452.93	3	1,095.15	3	737.75	3	379.99	3	36.04	3		3		3	
1/4	2,161.03	1/4	1,803.25	1/4	1,445.47	1/4	1,087.70	1/4	730.30	1/4	372.53	1/4	31.10	1/4		1/4		1/4	
1/2	2,153.58	1/2	1,795.80	1/2	1,438.02	1/2	1,080.24	1/2	722.85	1/2	365.08	1/2	27.43	1/2		1/2		1/2	
3/4	2,146.12	3/4	1,788.34	3/4	1,430.57	3/4	1,072.79	3/4	715.39	3/4	357.63	3/4	23.75	3/4		3/4		3/4	
4	2,138.67	4	1,780.89	4	1,423.11	4	1,065.34	4	707.94	4	350.17	4	20.07	4		4		4	
1/4	2,131.21	1/4	1,773.44	1/4	1,415.66	1/4	1,057.88	1/4	700.49	1/4	342.72	1/4	16.40	1/4		1/4		1/4	
1/2	2,123.76	1/2	1,765.98	1/2	1,408.21	1/2	1,050.43	1/2	693.03	1/2	335.27	1/2		1/2		1/2		1/2	
3/4	2,116.31	3/4	1,758.53	3/4	1,400.75	3/4	1,042.97	3/4	685.58	3/4	327.81	3/4		3/4		3/4		3/4	
5	2,108.85	5	1,751.08	5	1,393.30	5	1,035.52	5	678.13	5	320.36	5		5		5		5	
1/4	2,101.40	1/4	1,743.62	1/4	1,385.84	1/4	1,028.07	1/4	670.67	1/4	312.91	1/4		1/4		1/4		1/4	
1/2	2,093.95	1/2	1,736.17	1/2	1,378.39	1/2	1,020.62	1/2	663.22	1/2	305.45	1/2		1/2		1/2		1/2	
3/4	2,086.49	3/4	1,728.71	3/4	1,370.94	3/4	1,013.18	3/4	655.77	3/4	298.00	3/4		3/4		3/4		3/4	
6	2,079.04	6	1,721.26	6	1,363.48	6	1,005.74	6	648.31	6	290.54	6		6		6		6	
1/4	2,071.58	1/4	1,713.81	1/4	1,356.03	1/4	998.30	1/4	640.86	1/4	283.09	1/4		1/4		1/4		1/4	
1/2	2,064.13	1/2	1,706.35	1/2	1,348.58	1/2	990.86	1/2	633.41	1/2	275.64	1/2		1/2		1/2		1/2	
3/4	2,056.68	3/4	1,698.90	3/4	1,341.12	3/4	983.42	3/4	625.95	3/4	268.18	3/4		3/4		3/4		3/4	
7	2,049.22	7	1,691.45	7	1,333.67	7	975.97	7	618.50	7	260.73	7		7		7		7	
1/4	2,041.77	1/4	1,683.99	1/4	1,326.21	1/4	968.53	1/4	611.05	1/4	253.28	1/4		1/4		1/4		1/4	
1/2	2,034.32	1/2	1,676.54	1/2	1,318.76	1/2	961.09	1/2	603.59	1/2	245.82	1/2		1/2		1/2		1/2	
3/4	2,026.86	3/4	1,669.08	3/4	1,311.31	3/4	953.65	3/4	596.14	3/4	238.37	3/4		3/4		3/4		3/4	
8	2,019.41	8	1,661.63	8	1,303.85	8	946.21	8	588.68	8	230.92	8		8		8		8	
1/4	2,011.96	1/4	1,654.18	1/4	1,296.40	1/4	938.77	1/4	581.23	1/4	223.46	1/4		1/4		1/4		1/4	
1/2	2,004.50	1/2	1,646.72	1/2	1,288.95	1/2	931.32	1/2	573.78	1/2	216.01	1/2		1/2		1/2		1/2	
3/4	1,997.05	3/4	1,639.27	3/4	1,281.49	3/4	923.88	3/4	566.32	3/4	208.56	3/4		3/4		3/4		3/4	
9	1,989.59	9	1,631.82	9	1,274.04	9	916.44	9	558.87	9	201.10	9		9		9		9	
1/4	1,982.14	1/4	1,624.36	1/4	1,266.59	1/4	909.00	1/4	551.42	1/4	193.65	1/4		1/4		1/4		1/4	
1/2	1,974.69	1/2	1,616.91	1/2	1,259.13	1/2	901.56	1/2	543.96	1/2	186.20	1/2		1/2		1/2		1/2	
3/4	1,967.23	3/4	1,609.46	3/4	1,251.68	3/4	894.11	3/4	536.51	3/4	178.74	3/4		3/4		3/4		3/4	
10	1,959.78	10	1,602.00	10	1,244.22	10	886.67	10	529.06	10	171.29	10		10		10		10	
1/4	1,952.33	1/4	1,594.55	1/4	1,236.77	1/4	879.23	1/4	521.60	1/4	163.84	1/4		1/4		1/4		1/4	
1/2	1,944.87	1/2	1,587.09	1/2	1,229.32	1/2	871.79	1/2	514.15	1/2	156.38	1/2		1/2		1/2		1/2	
3/4	1,937.42	3/4	1,579.64	3/4	1,221.86	3/4	864.35	3/4	506.70	3/4	148.93	3/4		3/4		3/4		3/4	
11	1,929.96	11	1,572.19	11	1,214.41	11	856.91	11	499.24	11	141.47	11		11		11		11	
1/4	1,922.51	1/4	1,564.73	1/4	1,206.96	1/4	849.46	1/4	491.79	1/4	134.02	1/4		1/4		1/4		1/4	
1/2	1,915.06	1/2	1,557.28	1/2	1,199.50	1/2	842.02	1/2	484.34	1/2	126.57	1/2		1/2		1/2		1/2	
3/4	1,907.60	3/4	1,549.83	3/4	1,192.05	3/4	834.58	3/4	476.88	3/4	119.12	3/4		3/4		3/4		3/4	

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