



BARGE "KIRBY 12322B"

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 CENTER	-00-1/2	00-1/2	-01-0/8	01-0/8	-01-1/2	01-1/2	-02-1/8	02-1/8	-02-5/8	02-5/8	-03-1/8	03-1/8
2 CENTER	-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 CENTER	-00-1/8	00-1/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-3/8	00-3/8	-00-3/8	00-3/8	-00-1/2	00-1/2

(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 CENTER IS 01-0/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-01 0/8"

LENGTH BETWEEN DRAFT MARKS: 175'-06"

July 7, 2009

**PRECISION MEASUREMENT
 & ANALYSIS, INC.**
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 12322B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	3,767.58	0	3,533.74	0	3,299.90	0	3,066.05	0	2,832.21	0	2,598.36	0	2,364.51	0	2,130.66	0	1,896.81
1/4	1/4	1/4	3,762.71	1/4	3,528.87	1/4	3,295.02	1/4	3,061.18	1/4	2,827.33	1/4	2,593.48	1/4	2,359.63	1/4	2,125.78	1/4	1,891.93
1/2	1/2	1/2	3,757.84	1/2	3,523.99	1/2	3,290.15	1/2	3,056.31	1/2	2,822.46	1/2	2,588.61	1/2	2,354.76	1/2	2,120.91	1/2	1,887.06
3/4	3/4	3/4	3,752.96	3/4	3,519.12	3/4	3,285.28	3/4	3,051.44	3/4	2,817.59	3/4	2,584.84	3/4	2,350.99	3/4	2,116.14	3/4	1,882.21
1	1	1	3,748.09	1	3,514.25	1	3,280.41	1	3,046.57	1	2,812.72	1	2,578.87	1	2,345.02	1	2,111.29	1	1,877.44
1/4	1/4	1/4	3,743.22	1/4	3,509.38	1/4	3,275.54	1/4	3,041.70	1/4	2,807.85	1/4	2,574.00	1/4	2,340.15	1/4	2,106.44	1/4	1,872.59
1/2	1/2	1/2	3,738.35	1/2	3,504.51	1/2	3,270.66	1/2	3,036.82	1/2	2,802.96	1/2	2,570.10	1/2	2,335.25	1/2	2,101.59	1/2	1,867.74
3/4	3/4	3/4	3,733.48	3/4	3,499.63	3/4	3,265.79	3/4	3,031.95	3/4	2,800.00	3/4	2,566.25	3/4	2,330.30	3/4	2,096.44	3/4	1,862.89
2	2	2	3,728.60	2	3,494.76	2	3,260.92	2	3,027.10	2	2,796.08	2	2,562.33	2	2,325.39	2	2,091.59	2	1,858.04
1/4	1/4	1/4	3,723.73	1/4	3,489.89	1/4	3,256.05	1/4	3,022.25	1/4	2,792.23	1/4	2,558.48	1/4	2,320.44	1/4	2,086.69	1/4	1,853.19
1/2	1/2	1/2	3,718.86	1/2	3,485.02	1/2	3,251.18	1/2	3,017.39	1/2	2,787.31	1/2	2,554.57	1/2	2,315.49	1/2	2,081.74	1/2	1,848.34
3/4	3/4	3/4	3,713.99	3/4	3,480.15	3/4	3,246.31	3/4	3,012.54	3/4	2,783.44	3/4	2,550.66	3/4	2,310.54	3/4	2,076.79	3/4	1,843.49
3	3	3	3,709.12	3	3,475.28	3	3,241.43	3	3,007.69	3	2,779.56	3	2,546.71	3	2,305.59	3	2,071.84	3	1,838.64
1/4	1/4	1/4	3,704.25	1/4	3,470.40	1/4	3,236.56	1/4	3,002.84	1/4	2,775.63	1/4	2,542.80	1/4	2,300.64	1/4	2,066.89	1/4	1,833.79
1/2	1/2	1/2	3,699.37	1/2	3,465.53	1/2	3,231.69	1/2	2,997.98	1/2	2,770.70	1/2	2,538.89	1/2	2,295.69	1/2	2,061.94	1/2	1,828.94
3/4	3/4	3/4	3,694.50	3/4	3,460.66	3/4	3,226.82	3/4	2,993.13	3/4	2,765.77	3/4	2,534.90	3/4	2,290.74	3/4	2,057.09	3/4	1,824.09
4	4	4	3,689.63	4	3,455.79	4	3,221.95	4	2,988.28	4	2,760.84	4	2,530.01	4	2,285.84	4	2,052.14	4	1,819.24
1/4	1/4	1/4	3,684.76	1/4	3,450.92	1/4	3,217.08	1/4	2,983.43	1/4	2,755.91	1/4	2,526.06	1/4	2,280.99	1/4	2,047.29	1/4	1,814.39
1/2	1/2	1/2	3,679.89	1/2	3,446.05	1/2	3,212.21	1/2	2,978.57	1/2	2,751.04	1/2	2,521.19	1/2	2,276.12	1/2	2,042.44	1/2	1,809.54
3/4	3/4	3/4	3,675.02	3/4	3,441.17	3/4	3,207.33	3/4	2,973.72	3/4	2,746.17	3/4	2,516.32	3/4	2,271.25	3/4	2,037.59	3/4	1,804.69
5	5	5	3,670.14	5	3,436.30	5	3,202.46	5	2,967.84	5	2,741.24	5	2,511.45	5	2,266.38	5	2,032.64	5	1,800.00
1/4	1/4	1/4	3,665.27	1/4	3,431.43	1/4	3,197.59	1/4	2,962.97	1/4	2,736.37	1/4	2,506.58	1/4	2,261.51	1/4	2,027.79	1/4	1,795.15
1/2	1/2	1/2	3,660.40	1/2	3,426.56	1/2	3,192.72	1/2	2,958.10	1/2	2,731.50	1/2	2,501.71	1/2	2,256.64	1/2	2,022.84	1/2	1,790.30
3/4	3/4	3/4	3,655.53	3/4	3,421.69	3/4	3,187.85	3/4	2,953.23	3/4	2,726.63	3/4	2,496.82	3/4	2,251.77	3/4	2,017.99	3/4	1,785.45
6	6	6	3,650.66	6	3,416.82	6	3,182.97	6	2,948.36	6	2,721.76	6	2,491.95	6	2,246.89	6	2,013.14	6	1,780.60
1/4	1/4	1/4	3,645.79	1/4	3,411.94	1/4	3,178.10	1/4	2,943.49	1/4	2,716.89	1/4	2,487.08	1/4	2,242.02	1/4	2,008.29	1/4	1,775.75
1/2	1/2	1/2	3,640.91	1/2	3,407.07	1/2	3,173.23	1/2	2,938.62	1/2	2,712.02	1/2	2,482.21	1/2	2,237.15	1/2	2,003.44	1/2	1,770.90
3/4	3/4	3/4	3,636.04	3/4	3,402.20	3/4	3,168.36	3/4	2,933.75	3/4	2,707.15	3/4	2,477.34	3/4	2,232.28	3/4	1,998.59	3/4	1,766.05
7	7	7	3,631.17	7	3,397.33	7	3,163.49	7	2,928.88	7	2,702.28	7	2,472.43	7	2,227.41	7	1,993.74	7	1,761.20
1/4	1/4	1/4	3,626.30	1/4	3,392.46	1/4	3,158.62	1/4	2,924.01	1/4	2,697.41	1/4	2,467.52	1/4	2,222.54	1/4	1,988.89	1/4	1,756.35
1/2	1/2	1/2	3,621.43	1/2	3,387.59	1/2	3,153.74	1/2	2,919.14	1/2	2,692.54	1/2	2,462.65	1/2	2,217.67	1/2	1,984.04	1/2	1,751.50
3/4	3/4	3/4	3,616.56	3/4	3,382.71	3/4	3,148.87	3/4	2,914.27	3/4	2,687.67	3/4	2,457.76	3/4	2,212.80	3/4	1,979.19	3/4	1,746.65
8	8	8	3,611.68	8	3,377.84	8	3,144.00	8	2,909.40	8	2,682.80	8	2,452.89	8	2,207.92	8	1,974.34	8	1,741.80
1/4	1/4	1/4	3,606.81	1/4	3,372.97	1/4	3,139.13	1/4	2,904.53	1/4	2,677.93	1/4	2,448.02	1/4	2,203.05	1/4	1,969.49	1/4	1,736.95
1/2	1/2	1/2	3,601.94	1/2	3,368.10	1/2	3,134.26	1/2	2,899.66	1/2	2,673.06	1/2	2,443.11	1/2	2,198.14	1/2	1,964.64	1/2	1,732.10
3/4	3/4	3/4	3,597.07	3/4	3,363.23	3/4	3,129.39	3/4	2,894.79	3/4	2,668.19	3/4	2,438.20	3/4	2,193.23	3/4	1,959.79	3/4	1,727.25
9	9	9	3,592.20	9	3,358.36	9	3,124.51	9	2,889.92	9	2,663.32	9	2,433.33	9	2,188.36	9	1,954.94	9	1,722.40
1/4	1/4	1/4	3,587.33	1/4	3,353.48	1/4	3,119.64	1/4	2,885.05	1/4	2,658.45	1/4	2,428.46	1/4	2,183.49	1/4	1,950.09	1/4	1,717.55
1/2	1/2	1/2	3,582.45	1/2	3,348.61	1/2	3,114.77	1/2	2,880.18	1/2	2,653.58	1/2	2,423.57	1/2	2,178.62	1/2	1,945.24	1/2	1,712.70
3/4	3/4	3/4	3,577.58	3/4	3,343.74	3/4	3,109.90	3/4	2,875.31	3/4	2,648.71	3/4	2,418.70	3/4	2,173.75	3/4	1,940.39	3/4	1,707.85
10	10	10	3,572.71	10	3,338.87	10	3,105.03	10	2,870.44	10	2,643.84	10	2,413.83	10	2,168.89	10	1,935.54	10	1,703.00
1/4	1/4	1/4	3,567.84	1/4	3,333.99	1/4	3,100.16	1/4	2,865.57	1/4	2,638.97	1/4	2,408.92	1/4	2,164.02	1/4	1,930.69	1/4	1,698.15
1/2	1/2	1/2	3,562.97	1/2	3,329.13	1/2	3,095.28	1/2	2,860.70	1/2	2,634.10	1/2	2,404.05	1/2	2,159.17	1/2	1,925.84	1/2	1,693.30
3/4	3/4	3/4	3,558.10	3/4	3,324.25	3/4	3,090.41	3/4	2,855.83	3/4	2,629.23	3/4	2,400.18	3/4	2,154.30	3/4	1,920.99	3/4	1,688.45
11	11	11	3,553.22	11	3,319.38	11	3,085.54	11	2,851.00	11	2,624.36	11	2,395.31	11	2,149.46	11	1,916.14	11	1,683.60
1/4	1/4	1/4	3,548.35	1/4	3,314.51	1/4	3,080.67	1/4	2,846.13	1/4	2,619.49	1/4	2,390.44	1/4	2,144.61	1/4	1,911.29	1/4	1,678.75
1/2	1/2	1/2	3,543.48	1/2	3,309.64	1/2	3,075.80	1/2	2,841.26	1/2	2,614.62	1/2	2,385.57	1/2	2,139.74	1/2	1,906.44	1/2	1,673.90
3/4	3/4	3/4	3,538.61	3/4	3,304.77	3/4	3,070.93	3/4	2,836.39	3/4	2,609.75	3/4	2,380.70	3/4	2,134.87	3/4	1,901.59	3/4	1,669.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.
 BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 22'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 12322B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,939.16	0	1,652.35	0	1,365.02	0	1,077.93	0	795.42	0	509.93	0	222.31	0		0		0	
1/4	1,933.19	1/4	1,646.36	1/4	1,359.03	1/4	1,071.95	1/4	789.60	1/4	503.95	1/4	216.31	1/4		1/4		1/4	
1/2	1,927.23	1/2	1,640.38	1/2	1,353.04	1/2	1,065.98	1/2	783.78	1/2	497.97	1/2	210.32	1/2		1/2		1/2	
3/4	1,921.27	3/4	1,634.39	3/4	1,347.06	3/4	1,060.00	3/4	777.96	3/4	491.99	3/4	204.32	3/4		3/4		3/4	
1	1,915.30	1	1,628.40	1	1,341.07	1	1,054.03	1	772.13	1	486.01	1	198.32	1		1		1	
1/4	1,909.34	1/4	1,622.42	1/4	1,335.09	1/4	1,048.05	1/4	766.31	1/4	480.03	1/4	192.32	1/4		1/4		1/4	
1/2	1,903.38	1/2	1,616.43	1/2	1,329.10	1/2	1,042.07	1/2	760.49	1/2	474.06	1/2	186.33	1/2		1/2		1/2	
3/4	1,897.41	3/4	1,610.45	3/4	1,323.11	3/4	1,036.10	3/4	754.67	3/4	468.08	3/4	180.33	3/4		3/4		3/4	
2	1,891.45	2	1,604.46	2	1,317.13	2	1,030.11	2	748.85	2	462.10	2	174.33	2		2		2	
1/4	1,885.49	1/4	1,598.47	1/4	1,311.14	1/4	1,024.12	1/4	743.03	1/4	456.12	1/4	168.33	1/4		1/4		1/4	
1/2	1,879.52	1/2	1,592.49	1/2	1,305.16	1/2	1,018.13	1/2	737.20	1/2	450.15	1/2	162.34	1/2		1/2		1/2	
3/4	1,873.56	3/4	1,586.50	3/4	1,299.17	3/4	1,012.15	3/4	731.38	3/4	444.17	3/4	156.34	3/4		3/4		3/4	
3	1,867.60	3	1,580.52	3	1,293.18	3	1,006.16	3	725.39	3	438.18	3	150.34	3		3		3	
1/4	1,861.63	1/4	1,574.53	1/4	1,287.20	1/4	1,000.17	1/4	719.40	1/4	432.19	1/4	144.34	1/4		1/4		1/4	
1/2	1,855.67	1/2	1,568.54	1/2	1,281.21	1/2	994.18	1/2	713.41	1/2	426.20	1/2	138.35	1/2		1/2		1/2	
3/4	1,849.71	3/4	1,562.56	3/4	1,275.22	3/4	988.20	3/4	707.42	3/4	420.21	3/4	132.35	3/4		3/4		3/4	
4	1,843.74	4	1,556.57	4	1,269.24	4	982.21	4	701.43	4	414.22	4	126.35	4		4		4	
1/4	1,837.78	1/4	1,550.59	1/4	1,263.25	1/4	976.22	1/4	695.44	1/4	408.23	1/4	120.35	1/4		1/4		1/4	
1/2	1,831.82	1/2	1,544.60	1/2	1,257.27	1/2	970.23	1/2	689.45	1/2	402.23	1/2	114.36	1/2		1/2		1/2	
3/4	1,825.85	3/4	1,538.61	3/4	1,251.28	3/4	964.25	3/4	683.46	3/4	396.24	3/4	108.36	3/4		3/4		3/4	
5	1,819.89	5	1,532.63	5	1,245.29	5	958.42	5	677.47	5	390.24	5	102.36	5		5		5	
1/4	1,813.93	1/4	1,526.64	1/4	1,239.31	1/4	952.60	1/4	671.48	1/4	384.24	1/4	96.36	1/4		1/4		1/4	
1/2	1,807.96	1/2	1,520.65	1/2	1,233.32	1/2	946.78	1/2	665.49	1/2	378.25	1/2	90.37	1/2		1/2		1/2	
3/4	1,802.00	3/4	1,514.67	3/4	1,227.34	3/4	940.96	3/4	659.50	3/4	372.25	3/4	84.37	3/4		3/4		3/4	
6	1,796.02	6	1,508.68	6	1,221.36	6	935.14	6	653.51	6	366.25	6	78.37	6		6		6	
1/4	1,790.03	1/4	1,502.70	1/4	1,215.38	1/4	929.32	1/4	647.52	1/4	360.25	1/4	72.37	1/4		1/4		1/4	
1/2	1,784.04	1/2	1,496.71	1/2	1,209.41	1/2	923.50	1/2	641.53	1/2	354.26	1/2	66.38	1/2		1/2		1/2	
3/4	1,778.06	3/4	1,490.72	3/4	1,203.43	3/4	917.67	3/4	635.54	3/4	348.26	3/4	60.38	3/4		3/4		3/4	
7	1,772.07	7	1,484.74	7	1,197.46	7	911.85	7	629.56	7	342.26	7	54.38	7		7		7	
1/4	1,766.09	1/4	1,478.75	1/4	1,191.48	1/4	906.03	1/4	623.58	1/4	336.26	1/4	48.38	1/4		1/4		1/4	
1/2	1,760.10	1/2	1,472.77	1/2	1,185.50	1/2	900.21	1/2	617.60	1/2	330.27	1/2	42.39	1/2		1/2		1/2	
3/4	1,754.11	3/4	1,466.78	3/4	1,179.53	3/4	894.39	3/4	611.62	3/4	324.27	3/4	36.39	3/4		3/4		3/4	
8	1,748.13	8	1,460.79	8	1,173.55	8	888.57	8	605.63	8	318.27	8	31.39	8		8		8	
1/4	1,742.14	1/4	1,454.81	1/4	1,167.57	1/4	882.74	1/4	599.65	1/4	312.27	1/4	26.39	1/4		1/4		1/4	
1/2	1,736.15	1/2	1,448.82	1/2	1,161.60	1/2	876.92	1/2	593.67	1/2	306.28	1/2	21.40	1/2		1/2		1/2	
3/4	1,730.17	3/4	1,442.84	3/4	1,155.62	3/4	871.10	3/4	587.69	3/4	300.28	3/4	16.40	3/4		3/4		3/4	
9	1,724.18	9	1,436.85	9	1,149.65	9	865.28	9	581.71	9	294.28	9	13.40	9		9		9	
1/4	1,718.20	1/4	1,430.86	1/4	1,143.67	1/4	859.46	1/4	575.73	1/4	288.28	1/4	10.40	1/4		1/4		1/4	
1/2	1,712.21	1/2	1,424.88	1/2	1,137.69	1/2	853.64	1/2	569.74	1/2	282.29	1/2	7.40	1/2		1/2		1/2	
3/4	1,706.22	3/4	1,418.89	3/4	1,131.72	3/4	847.81	3/4	563.76	3/4	276.29	3/4	4.40	3/4		3/4		3/4	
10	1,700.24	10	1,412.91	10	1,125.74	10	841.99	10	557.78	10	270.29	10	3.41	10		10		10	
1/4	1,694.25	1/4	1,406.92	1/4	1,119.76	1/4	836.17	1/4	551.80	1/4	264.29	1/4	2.41	1/4		1/4		1/4	
1/2	1,688.27	1/2	1,400.93	1/2	1,113.79	1/2	830.35	1/2	545.82	1/2	258.30	1/2	1.41	1/2		1/2		1/2	
3/4	1,682.28	3/4	1,394.95	3/4	1,107.81	3/4	824.53	3/4	539.84	3/4	252.30	3/4	0.41	3/4		3/4		3/4	
11	1,676.29	11	1,388.96	11	1,101.84	11	818.71	11	533.85	11	246.30	11		11		11		11	
1/4	1,670.31	1/4	1,382.97	1/4	1,095.86	1/4	812.88	1/4	527.87	1/4	240.30	1/4		1/4		1/4		1/4	
1/2	1,664.32	1/2	1,376.99	1/2	1,089.88	1/2	807.06	1/2	521.89	1/2	234.31	1/2		1/2		1/2		1/2	
3/4	1,658.34	3/4	1,371.00	3/4	1,083.91	3/4	801.24	3/4	515.91	3/4	228.31	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/07/2009 CL - SW
CALCULATED: 07/07/2009 CL
PRINTED: 07/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 12322B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Peasland, Texas 77588

http://www.pmacorp.net



BARGE "KIRBY 12322B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,932.65	0	1,646.23	0	1,359.81	0	1,073.39	0	786.91	0	505.90	0	221.16	0	0	0	0	0	0
1/4	1,926.68	1/4	1,640.26	1/4	1,353.84	1/4	1,067.42	1/4	783.01	1/4	500.01	1/4	215.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,920.71	1/2	1,634.29	1/2	1,347.87	1/2	1,061.45	1/2	777.11	1/2	494.12	1/2	209.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,914.75	3/4	1,628.33	3/4	1,341.90	3/4	1,055.48	3/4	771.21	3/4	488.23	3/4	203.26	3/4	3/4	3/4	3/4	3/4	3/4
1	1,908.78	1	1,622.36	1	1,335.94	1	1,049.52	1	765.31	1	482.34	1	197.29	1	1	1	1	1	1
1/4	1,902.81	1/4	1,616.39	1/4	1,329.97	1/4	1,043.55	1/4	759.41	1/4	476.45	1/4	191.33	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,896.85	1/2	1,610.42	1/2	1,324.00	1/2	1,037.58	1/2	753.51	1/2	470.55	1/2	185.36	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,890.88	3/4	1,604.46	3/4	1,318.04	3/4	1,031.62	3/4	747.61	3/4	464.66	3/4	179.39	3/4	3/4	3/4	3/4	3/4	3/4
2	1,884.91	2	1,598.49	2	1,312.07	2	1,025.65	2	741.71	2	458.77	2	173.43	2	2	2	2	2	2
1/4	1,878.94	1/4	1,592.52	1/4	1,306.10	1/4	1,019.68	1/4	735.81	1/4	452.88	1/4	167.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,872.98	1/2	1,586.56	1/2	1,300.14	1/2	1,013.71	1/2	729.91	1/2	446.99	1/2	161.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,867.01	3/4	1,580.59	3/4	1,294.17	3/4	1,007.75	3/4	724.01	3/4	441.10	3/4	155.53	3/4	3/4	3/4	3/4	3/4	3/4
3	1,861.04	3	1,574.62	3	1,288.20	3	1,001.78	3	718.11	3	435.20	3	149.56	3	3	3	3	3	3
1/4	1,855.08	1/4	1,568.65	1/4	1,282.23	1/4	995.81	1/4	712.21	1/4	429.30	1/4	143.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,849.11	1/2	1,562.69	1/2	1,276.27	1/2	989.85	1/2	706.31	1/2	423.41	1/2	137.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,843.14	3/4	1,556.72	3/4	1,270.30	3/4	983.88	3/4	700.41	3/4	417.51	3/4	131.66	3/4	3/4	3/4	3/4	3/4	3/4
4	1,837.17	4	1,550.75	4	1,264.33	4	977.91	4	694.51	4	411.61	4	125.70	4	4	4	4	4	4
1/4	1,831.21	1/4	1,544.79	1/4	1,258.37	1/4	971.94	1/4	688.61	1/4	405.71	1/4	119.73	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,825.24	1/2	1,538.82	1/2	1,252.40	1/2	965.98	1/2	682.72	1/2	399.81	1/2	113.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,819.27	3/4	1,532.85	3/4	1,246.43	3/4	960.01	3/4	676.82	3/4	393.91	3/4	107.80	3/4	3/4	3/4	3/4	3/4	3/4
5	1,813.31	5	1,526.88	5	1,240.46	5	954.11	5	670.92	5	388.02	5	101.83	5	5	5	5	5	5
1/4	1,807.34	1/4	1,520.92	1/4	1,234.50	1/4	948.21	1/4	665.02	1/4	382.12	1/4	95.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,801.37	1/2	1,514.95	1/2	1,228.53	1/2	942.31	1/2	659.12	1/2	376.22	1/2	89.90	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,795.40	3/4	1,508.98	3/4	1,222.56	3/4	936.41	3/4	653.22	3/4	370.32	3/4	83.93	3/4	3/4	3/4	3/4	3/4	3/4
6	1,789.44	6	1,503.01	6	1,216.60	6	930.51	6	647.32	6	364.35	6	77.97	6	6	6	6	6	6
1/4	1,783.47	1/4	1,497.05	1/4	1,210.63	1/4	924.61	1/4	641.42	1/4	358.39	1/4	72.00	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,777.50	1/2	1,491.08	1/2	1,204.66	1/2	918.71	1/2	635.52	1/2	352.42	1/2	66.03	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,771.54	3/4	1,485.12	3/4	1,198.69	3/4	912.81	3/4	629.62	3/4	346.45	3/4	60.07	3/4	3/4	3/4	3/4	3/4	3/4
7	1,765.57	7	1,479.15	7	1,192.73	7	906.91	7	623.72	7	340.49	7	54.10	7	7	7	7	7	7
1/4	1,759.60	1/4	1,473.18	1/4	1,186.76	1/4	901.01	1/4	617.83	1/4	334.52	1/4	48.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,753.63	1/2	1,467.21	1/2	1,180.79	1/2	895.11	1/2	611.94	1/2	328.55	1/2	42.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,747.67	3/4	1,461.25	3/4	1,174.83	3/4	889.21	3/4	606.05	3/4	322.59	3/4	36.20	3/4	3/4	3/4	3/4	3/4	3/4
8	1,741.70	8	1,455.28	8	1,168.86	8	883.31	8	600.16	8	316.62	8	31.23	8	8	8	8	8	8
1/4	1,735.73	1/4	1,449.31	1/4	1,162.89	1/4	877.41	1/4	594.27	1/4	310.66	1/4	26.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,729.77	1/2	1,443.35	1/2	1,156.92	1/2	871.51	1/2	588.37	1/2	304.69	1/2	21.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,723.80	3/4	1,437.38	3/4	1,150.96	3/4	865.61	3/4	582.48	3/4	298.72	3/4	16.31	3/4	3/4	3/4	3/4	3/4	3/4
9	1,717.83	9	1,431.41	9	1,144.99	9	859.71	9	576.59	9	292.76	9	13.33	9	9	9	9	9	9
1/4	1,711.86	1/4	1,425.44	1/4	1,139.02	1/4	853.81	1/4	570.70	1/4	286.79	1/4	10.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,705.90	1/2	1,419.48	1/2	1,133.06	1/2	847.91	1/2	564.81	1/2	280.82	1/2	7.37	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,699.93	3/4	1,413.51	3/4	1,127.09	3/4	842.01	3/4	558.92	3/4	274.86	3/4	4.38	3/4	3/4	3/4	3/4	3/4	3/4
10	1,693.96	10	1,407.54	10	1,121.12	10	836.11	10	553.03	10	268.89	10	3.39	10	10	10	10	10	10
1/4	1,688.00	1/4	1,401.58	1/4	1,115.15	1/4	830.21	1/4	547.13	1/4	262.92	1/4	2.40	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,682.03	1/2	1,395.61	1/2	1,109.19	1/2	824.31	1/2	541.24	1/2	256.96	1/2	1.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,676.06	3/4	1,389.64	3/4	1,103.22	3/4	818.41	3/4	535.35	3/4	250.99	3/4	0.41	3/4	3/4	3/4	3/4	3/4	3/4
11	1,670.10	11	1,383.67	11	1,097.25	11	812.51	11	529.46	11	245.03	11	0.41	11	11	11	11	11	11
1/4	1,664.13	1/4	1,377.71	1/4	1,091.29	1/4	806.61	1/4	523.57	1/4	239.06	1/4	0.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,658.16	1/2	1,371.74	1/2	1,085.32	1/2	800.71	1/2	517.68	1/2	233.09	1/2	0.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,652.19	3/4	1,365.77	3/4	1,079.35	3/4	794.81	3/4	511.79	3/4	227.13	3/4	0.41	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/07/2009 CL - SW
CALCULATED: 07/07/2009 CL
PRINTED: 07/07/2009 CL

CANCEL AND SUPERCEDES
ALL PRIOR TO 07/2009

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



BARGE "KIRBY 12322B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 ON CENTERLINE AND 28'-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>

[Signature]



BARGE "KIRBY 12322B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	1,926.88	0	1,642.26	0	1,357.64	0	1,073.01	0	788.66	0	504.31	0	219.79	0	0	0	0	0	0
1/4	1,920.95	1/4	1,636.33	1/4	1,351.71	1/4	1,067.08	1/4	782.74	1/4	498.39	1/4	213.86	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,915.02	1/2	1,630.40	1/2	1,345.78	1/2	1,061.16	1/2	776.82	1/2	492.47	1/2	207.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.09	3/4	1,624.47	3/4	1,339.85	3/4	1,055.23	3/4	770.90	3/4	486.55	3/4	202.00	3/4	3/4	3/4	3/4	3/4	3/4
1	1,903.16	1	1,618.54	1	1,333.92	1	1,049.30	1	764.98	1	480.63	1	196.07	1	1	1	1	1	1
1/4	1,897.23	1/4	1,612.61	1/4	1,327.99	1/4	1,043.37	1/4	759.06	1/4	474.70	1/4	190.14	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,891.30	1/2	1,606.68	1/2	1,322.06	1/2	1,037.44	1/2	753.13	1/2	468.78	1/2	184.22	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,885.37	3/4	1,600.75	3/4	1,316.13	3/4	1,031.51	3/4	747.21	3/4	462.86	3/4	178.29	3/4	3/4	3/4	3/4	3/4	3/4
2	1,879.44	2	1,594.82	2	1,310.20	2	1,025.58	2	741.29	2	456.94	2	172.36	2	2	2	2	2	2
1/4	1,873.51	1/4	1,588.89	1/4	1,304.27	1/4	1,019.65	1/4	735.37	1/4	451.02	1/4	166.43	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.58	1/2	1,582.96	1/2	1,298.34	1/2	1,013.72	1/2	729.45	1/2	445.10	1/2	160.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,861.65	3/4	1,577.03	3/4	1,292.41	3/4	1,007.79	3/4	723.53	3/4	439.18	3/4	154.57	3/4	3/4	3/4	3/4	3/4	3/4
3	1,855.72	3	1,571.10	3	1,286.48	3	1,001.86	3	717.60	3	433.25	3	148.64	3	3	3	3	3	3
1/4	1,849.79	1/4	1,565.17	1/4	1,280.55	1/4	995.93	1/4	711.67	1/4	427.32	1/4	142.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,843.86	1/2	1,559.24	1/2	1,274.62	1/2	990.00	1/2	705.74	1/2	421.39	1/2	136.78	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,837.93	3/4	1,553.31	3/4	1,268.69	3/4	984.07	3/4	699.81	3/4	415.46	3/4	130.85	3/4	3/4	3/4	3/4	3/4	3/4
4	1,832.00	4	1,547.38	4	1,262.76	4	978.14	4	693.88	4	409.53	4	124.92	4	4	4	4	4	4
1/4	1,826.07	1/4	1,541.45	1/4	1,256.83	1/4	972.21	1/4	687.96	1/4	403.60	1/4	118.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,820.14	1/2	1,535.52	1/2	1,250.90	1/2	966.28	1/2	682.03	1/2	397.67	1/2	113.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,814.21	3/4	1,529.59	3/4	1,244.97	3/4	960.35	3/4	676.10	3/4	391.74	3/4	107.13	3/4	3/4	3/4	3/4	3/4	3/4
5	1,808.28	5	1,523.66	5	1,239.04	5	954.43	5	670.17	5	385.81	5	101.21	5	5	5	5	5	5
1/4	1,802.36	1/4	1,517.73	1/4	1,233.11	1/4	948.51	1/4	664.24	1/4	379.88	1/4	95.28	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,796.43	1/2	1,511.80	1/2	1,227.18	1/2	942.59	1/2	658.31	1/2	373.95	1/2	89.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,790.50	3/4	1,505.88	3/4	1,221.25	3/4	936.67	3/4	652.38	3/4	368.02	3/4	83.42	3/4	3/4	3/4	3/4	3/4	3/4
6	1,784.57	6	1,499.95	6	1,215.32	6	930.75	6	646.45	6	362.09	6	77.49	6	6	6	6	6	6
1/4	1,778.64	1/4	1,494.02	1/4	1,209.40	1/4	924.83	1/4	640.52	1/4	356.17	1/4	71.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,772.71	1/2	1,488.09	1/2	1,203.47	1/2	918.91	1/2	634.59	1/2	350.24	1/2	65.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,766.78	3/4	1,482.16	3/4	1,197.54	3/4	912.99	3/4	628.66	3/4	344.31	3/4	59.70	3/4	3/4	3/4	3/4	3/4	3/4
7	1,760.85	7	1,476.23	7	1,191.61	7	907.07	7	622.74	7	338.38	7	53.77	7	7	7	7	7	7
1/4	1,754.92	1/4	1,470.30	1/4	1,185.68	1/4	901.15	1/4	616.82	1/4	332.45	1/4	47.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,748.99	1/2	1,464.37	1/2	1,179.75	1/2	895.23	1/2	610.90	1/2	326.52	1/2	41.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,743.06	3/4	1,458.44	3/4	1,173.82	3/4	889.31	3/4	604.97	3/4	320.59	3/4	35.98	3/4	3/4	3/4	3/4	3/4	3/4
8	1,737.13	8	1,452.51	8	1,167.89	8	883.39	8	599.05	8	314.66	8	31.04	8	8	8	8	8	8
1/4	1,731.20	1/4	1,446.58	1/4	1,161.96	1/4	877.47	1/4	593.13	1/4	308.73	1/4	26.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,725.27	1/2	1,440.65	1/2	1,156.03	1/2	871.54	1/2	587.21	1/2	302.80	1/2	21.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,719.34	3/4	1,434.72	3/4	1,150.10	3/4	865.62	3/4	581.29	3/4	296.87	3/4	16.22	3/4	3/4	3/4	3/4	3/4	3/4
9	1,713.41	9	1,428.79	9	1,144.17	9	859.70	9	575.37	9	290.94	9	13.25	9	9	9	9	9	9
1/4	1,707.48	1/4	1,422.86	1/4	1,138.24	1/4	853.78	1/4	569.45	1/4	285.01	1/4	10.29	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,701.55	1/2	1,416.93	1/2	1,132.31	1/2	847.86	1/2	563.52	1/2	279.08	1/2	7.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,695.62	3/4	1,411.00	3/4	1,126.38	3/4	841.94	3/4	557.60	3/4	273.15	3/4	4.36	3/4	3/4	3/4	3/4	3/4	3/4
10	1,689.69	10	1,405.07	10	1,120.45	10	836.02	10	551.68	10	267.23	10	3.37	10	10	10	10	10	10
1/4	1,683.76	1/4	1,399.14	1/4	1,114.52	1/4	830.10	1/4	545.76	1/4	261.30	1/4	2.38	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,677.83	1/2	1,393.21	1/2	1,108.59	1/2	824.18	1/2	539.84	1/2	255.37	1/2	1.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,671.90	3/4	1,387.28	3/4	1,102.66	3/4	818.26	3/4	533.92	3/4	249.44	3/4	0.41	3/4	3/4	3/4	3/4	3/4	3/4
11	1,665.97	11	1,381.35	11	1,096.73	11	812.34	11	528.00	11	243.51	11	0.41	11	11	11	11	11	11
1/4	1,660.04	1/4	1,375.42	1/4	1,090.80	1/4	806.42	1/4	522.07	1/4	237.58	1/4	0.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,654.12	1/2	1,369.49	1/2	1,084.87	1/2	800.50	1/2	516.15	1/2	231.65	1/2	0.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.19	3/4	1,363.56	3/4	1,078.94	3/4	794.58	3/4	510.23	3/4	225.72	3/4	0.41	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/07/2009 CL - SW
CALCULATED: 07/07/2009 CL
PRINTED: 07/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2009

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