



BARGE "KIRBY 28190"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

April 25, 2012

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28190"

1 PORT 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		
							4,948.04		4,612.44		4,272.54		3,916.15		3,543.97		3,167.40		2,789.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,941.36	1/4	4,605.52	1/4	4,265.27	1/4	3,908.53	1/4	3,536.13	1/4	3,159.53	1/4	2,781.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,934.69	1/2	4,598.60	1/2	4,258.01	1/2	3,900.92	1/2	3,528.28	1/2	3,151.65	1/2	2,773.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,928.01	3/4	4,591.67	3/4	4,250.74	3/4	3,893.31	3/4	3,520.44	3/4	3,143.77	3/4	2,765.73		
1	1	1	1	1	1	1	4,921.33	1	4,584.75	1	4,243.48	1	3,885.69	1	3,512.60	1	3,135.90	1	2,757.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,913.72	1/4	4,577.80	1/4	4,236.18	1/4	3,878.05	1/4	3,504.76	1/4	3,128.02	1/4	2,749.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,906.11	1/2	4,570.85	1/2	4,228.89	1/2	3,870.41	1/2	3,496.92	1/2	3,120.15	1/2	2,742.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,898.50	3/4	4,563.90	3/4	4,221.59	3/4	3,862.77	3/4	3,489.08	3/4	3,112.27	3/4	2,734.23		
2	2	2	2	2	2	2	4,890.89	2	4,556.95	2	4,214.30	2	3,855.14	2	3,481.24	2	3,104.39	2	2,726.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,883.04	1/4	4,549.97	1/4	4,206.98	1/4	3,847.47	1/4	3,473.40	1/4	3,096.52	1/4	2,718.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,875.20	1/2	4,542.99	1/2	4,199.65	1/2	3,839.80	1/2	3,465.56	1/2	3,088.64	1/2	2,710.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,867.36	3/4	4,536.01	3/4	4,192.33	3/4	3,832.14	3/4	3,457.72	3/4	3,080.77	3/4	2,702.72		
3	3	3	3	3	3	3	4,859.52	3	4,529.03	3	4,185.00	3	3,824.47	3	3,449.87	3	3,072.89	3	2,694.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,852.11	1/4	4,522.02	1/4	4,177.65	1/4	3,816.77	1/4	3,442.03	1/4	3,065.01	1/4	2,686.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,844.71	1/2	4,515.02	1/2	4,170.30	1/2	3,809.08	1/2	3,434.19	1/2	3,057.14	1/2	2,679.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,837.30	3/4	4,508.01	3/4	4,162.95	3/4	3,801.38	3/4	3,426.35	3/4	3,049.26	3/4	2,671.22		
4	4	4	4	4	4	4	4,829.89	4	4,501.00	4	4,155.60	4	3,793.68	4	3,418.51	4	3,041.39	4	2,663.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,823.20	1/4	4,493.96	1/4	4,148.22	1/4	3,785.96	1/4	3,410.67	1/4	3,033.51	1/4	2,655.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,816.50	1/2	4,486.92	1/2	4,140.83	1/2	3,778.24	1/2	3,402.83	1/2	3,025.63	1/2	2,647.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,809.81	3/4	4,479.89	3/4	4,133.45	3/4	3,770.51	3/4	3,394.99	3/4	3,017.76	3/4	2,639.72		
5	5	5	5	5	5	5	4,803.11	5	4,472.85	5	4,126.07	5	3,762.79	5	3,387.15	5	3,009.88	5	2,631.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,796.39	1/4	4,465.78	1/4	4,118.66	1/4	3,755.03	1/4	3,379.31	1/4	3,002.01	1/4	2,623.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,789.67	1/2	4,458.72	1/2	4,111.25	1/2	3,747.28	1/2	3,371.46	1/2	2,994.13	1/2	2,616.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,782.95	3/4	4,451.65	3/4	4,103.84	3/4	3,739.52	3/4	3,363.62	3/4	2,986.26	3/4	2,608.21		
6	6	6	6	6	6	6	4,776.22	6	4,444.58	6	4,096.43	6	3,731.77	6	3,355.78	6	2,978.38	6	2,600.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,769.47	1/4	4,437.49	1/4	4,088.99	1/4	3,723.99	1/4	3,347.94	1/4	2,970.50	1/4	2,592.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,762.72	1/2	4,430.39	1/2	4,081.55	1/2	3,716.20	1/2	3,340.10	1/2	2,962.63	1/2	2,584.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,755.97	3/4	4,423.30	3/4	4,074.11	3/4	3,708.42	3/4	3,332.26	3/4	2,954.75	3/4	2,576.71		
7	7	7	7	7	7	7	4,749.21	7	4,416.20	7	4,066.68	7	3,700.64	7	3,324.42	7	2,946.88	7	2,568.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,742.43	1/4	4,409.08	1/4	4,059.21	1/4	3,692.83	1/4	3,316.58	1/4	2,939.00	1/4	2,560.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,735.65	1/2	4,401.95	1/2	4,051.74	1/2	3,685.02	1/2	3,308.74	1/2	2,931.12	1/2	2,553.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,728.87	3/4	4,394.83	3/4	4,044.27	3/4	3,677.20	3/4	3,300.90	3/4	2,923.25	3/4	2,545.21		
8	8	8	8	8	8	8	4,722.09	8	4,387.70	8	4,036.80	8	3,669.39	8	3,293.05	8	2,915.37	8	2,537.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,715.28	1/4	4,380.55	1/4	4,029.31	1/4	3,661.56	1/4	3,285.21	1/4	2,907.50	1/4	2,529.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,708.47	1/2	4,373.39	1/2	4,021.81	1/2	3,653.73	1/2	3,277.37	1/2	2,899.62	1/2	2,521.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,701.66	3/4	4,366.24	3/4	4,014.31	3/4	3,645.89	3/4	3,269.53	3/4	2,891.74	3/4	2,513.70		
9	9	9	9	9	9	9	4,694.85	9	4,359.09	9	4,006.81	9	3,638.06	9	3,261.69	9	2,883.87	9	2,505.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,688.01	1/4	4,351.90	1/4	3,999.29	1/4	3,630.22	1/4	3,253.85	1/4	2,875.99	1/4	2,497.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,681.17	1/2	4,344.72	1/2	3,991.76	1/2	3,622.38	1/2	3,246.01	1/2	2,868.12	1/2	2,490.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,674.33	3/4	4,337.54	3/4	3,984.24	3/4	3,614.54	3/4	3,238.17	3/4	2,860.24	3/4	2,482.20		
10	10	10	10	10	10	10	4,667.49	10	4,330.35	10	3,976.71	10	3,606.69	10	3,230.33	10	2,852.37	10	2,474.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.62	1/4	4,323.14	1/4	3,969.15	1/4	3,598.85	1/4	3,222.47	1/4	2,844.49	1/4	2,466.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,653.75	1/2	4,315.93	1/2	3,961.60	1/2	3,591.01	1/2	3,214.62	1/2	2,836.61	1/2	2,458.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,646.88	3/4	4,308.72	3/4	3,954.04	3/4	3,583.17	3/4	3,206.76	3/4	2,828.74	3/4	2,450.69		
11	11	11	11	11	11	11	4,640.01	11	4,301.51	11	3,946.49	11	3,575.33	11	3,198.90	11	2,820.86	11	2,442.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,633.12	1/4	4,294.26	1/4	3,938.90	1/4	3,567.49	1/4	3,191.03	1/4	2,812.99	1/4	2,434.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,958.80	1/2	4,626.23	1/2	4,287.02	1/2	3,931.32	1/2	3,559.65	1/2	3,183.15	1/2	2,805.11	1/2	2,427.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.42	3/4	4,619.33	3/4	4,279.78	3/4	3,923.73	3/4	3,551.81	3/4	3,175.28	3/4	2,797.23	3/4	2,419.19

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 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

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<http://www.pmacorp.net>



BARGE "KIRBY 28190"

1 PORT 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	2,411.31	0	2,033.27	0	1,655.23	0	1,278.62	0	901.30	0	523.31	0	176.20	0		0		0	
1/4	2,403.44	1/4	2,025.40	1/4	1,647.35	1/4	1,270.80	1/4	893.43	1/4	515.49	1/4	169.68	1/4	1/4	1/4		1/4	
1/2	2,395.56	1/2	2,017.52	1/2	1,639.48	1/2	1,262.97	1/2	885.55	1/2	507.68	1/2	163.17	1/2	1/2	1/2		1/2	
3/4	2,387.69	3/4	2,009.64	3/4	1,631.60	3/4	1,255.14	3/4	877.68	3/4	499.86	3/4	156.65	3/4	3/4	3/4		3/4	
1	2,379.81	1	2,001.77	1	1,623.72	1	1,247.32	1	869.80	1	492.04	1	150.13	1	1	1		1	
1/4	2,371.94	1/4	1,993.89	1/4	1,615.85	1/4	1,239.49	1/4	861.93	1/4	484.32	1/4	143.72	1/4	1/4	1/4		1/4	
1/2	2,364.06	1/2	1,986.02	1/2	1,607.97	1/2	1,231.67	1/2	854.05	1/2	476.59	1/2	137.32	1/2	1/2	1/2		1/2	
3/4	2,356.18	3/4	1,978.14	3/4	1,600.10	3/4	1,223.84	3/4	846.17	3/4	468.87	3/4	130.92	3/4	3/4	3/4		3/4	
2	2,348.31	2	1,970.26	2	1,592.22	2	1,216.01	2	838.30	2	461.14	2	124.51	2	2	2		2	
1/4	2,340.43	1/4	1,962.39	1/4	1,584.35	1/4	1,208.19	1/4	830.42	1/4	453.52	1/4	118.23	1/4	1/4	1/4		1/4	
1/2	2,332.56	1/2	1,954.51	1/2	1,576.47	1/2	1,200.36	1/2	822.55	1/2	445.91	1/2	111.95	1/2	1/2	1/2		1/2	
3/4	2,324.68	3/4	1,946.64	3/4	1,568.59	3/4	1,192.53	3/4	814.67	3/4	438.29	3/4	105.67	3/4	3/4	3/4		3/4	
3	2,316.80	3	1,938.76	3	1,560.72	3	1,184.71	3	806.80	3	430.68	3	99.38	3	3	3		3	
1/4	2,308.93	1/4	1,930.88	1/4	1,552.85	1/4	1,176.86	1/4	798.92	1/4	423.17	1/4	93.23	1/4	1/4	1/4		1/4	
1/2	2,301.05	1/2	1,923.01	1/2	1,544.99	1/2	1,169.02	1/2	791.04	1/2	415.66	1/2	87.08	1/2	1/2	1/2		1/2	
3/4	2,293.18	3/4	1,915.13	3/4	1,537.12	3/4	1,161.17	3/4	783.17	3/4	408.16	3/4	80.92	3/4	3/4	3/4		3/4	
4	2,285.30	4	1,907.26	4	1,529.26	4	1,153.33	4	775.29	4	400.65	4	74.77	4	4	4		4	
1/4	2,277.42	1/4	1,899.38	1/4	1,521.41	1/4	1,145.45	1/4	767.42	1/4	393.25	1/4	68.76	1/4	1/4	1/4		1/4	
1/2	2,269.55	1/2	1,891.51	1/2	1,513.57	1/2	1,137.58	1/2	759.54	1/2	385.86	1/2	62.75	1/2	1/2	1/2		1/2	
3/4	2,261.67	3/4	1,883.63	3/4	1,505.72	3/4	1,129.70	3/4	751.67	3/4	378.46	3/4	56.74	3/4	3/4	3/4		3/4	
5	2,253.80	5	1,875.75	5	1,497.87	5	1,121.82	5	743.79	5	371.06	5	50.72	5	5	5		5	
1/4	2,245.92	1/4	1,867.88	1/4	1,490.03	1/4	1,113.95	1/4	735.91	1/4	363.78	1/4	45.31	1/4	1/4	1/4		1/4	
1/2	2,238.04	1/2	1,860.00	1/2	1,482.19	1/2	1,106.07	1/2	728.04	1/2	356.49	1/2	39.89	1/2	1/2	1/2		1/2	
3/4	2,230.17	3/4	1,852.13	3/4	1,474.35	3/4	1,098.20	3/4	720.16	3/4	349.20	3/4	34.47	3/4	3/4	3/4		3/4	
6	2,222.29	6	1,844.25	6	1,466.51	6	1,090.32	6	712.29	6	341.91	6	29.05	6	6	6		6	
1/4	2,214.42	1/4	1,836.37	1/4	1,458.67	1/4	1,082.45	1/4	704.41	1/4	334.73	1/4	25.09	1/4	1/4	1/4		1/4	
1/2	2,206.54	1/2	1,828.50	1/2	1,450.84	1/2	1,074.57	1/2	696.54	1/2	327.56	1/2	21.12	1/2	1/2	1/2		1/2	
3/4	2,198.67	3/4	1,820.62	3/4	1,443.01	3/4	1,066.69	3/4	688.66	3/4	320.38	3/4	17.16	3/4	3/4	3/4		3/4	
7	2,190.79	7	1,812.75	7	1,435.17	7	1,058.82	7	680.78	7	313.20	7	13.19	7	7	7		7	
1/4	2,182.91	1/4	1,804.87	1/4	1,427.34	1/4	1,050.94	1/4	672.91	1/4	306.13	1/4		1/4	1/4	1/4		1/4	
1/2	2,175.04	1/2	1,796.99	1/2	1,419.51	1/2	1,043.07	1/2	665.03	1/2	299.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,167.16	3/4	1,789.12	3/4	1,411.68	3/4	1,035.19	3/4	657.16	3/4	291.99	3/4		3/4	3/4	3/4		3/4	
8	2,159.29	8	1,781.24	8	1,403.85	8	1,027.32	8	649.28	8	284.93	8		8	8	8		8	
1/4	2,151.41	1/4	1,773.37	1/4	1,396.02	1/4	1,019.44	1/4	641.41	1/4	277.97	1/4		1/4	1/4	1/4		1/4	
1/2	2,143.53	1/2	1,765.49	1/2	1,388.20	1/2	1,011.56	1/2	633.53	1/2	271.01	1/2		1/2	1/2	1/2		1/2	
3/4	2,135.66	3/4	1,757.62	3/4	1,380.37	3/4	1,003.69	3/4	625.65	3/4	264.05	3/4		3/4	3/4	3/4		3/4	
9	2,127.78	9	1,749.74	9	1,372.54	9	995.81	9	617.78	9	257.09	9		9	9	9		9	
1/4	2,119.91	1/4	1,741.86	1/4	1,364.72	1/4	987.94	1/4	609.90	1/4	250.24	1/4		1/4	1/4	1/4		1/4	
1/2	2,112.03	1/2	1,733.99	1/2	1,356.89	1/2	980.06	1/2	602.03	1/2	243.39	1/2		1/2	1/2	1/2		1/2	
3/4	2,104.15	3/4	1,726.11	3/4	1,349.06	3/4	972.19	3/4	594.15	3/4	236.54	3/4		3/4	3/4	3/4		3/4	
10	2,096.28	10	1,718.24	10	1,341.24	10	964.31	10	586.28	10	229.69	10		10	10	10		10	
1/4	2,088.40	1/4	1,710.36	1/4	1,333.41	1/4	956.43	1/4	578.40	1/4	222.95	1/4		1/4	1/4	1/4		1/4	
1/2	2,080.53	1/2	1,702.48	1/2	1,325.58	1/2	948.56	1/2	570.52	1/2	216.21	1/2		1/2	1/2	1/2		1/2	
3/4	2,072.65	3/4	1,694.61	3/4	1,317.76	3/4	940.68	3/4	562.65	3/4	209.47	3/4		3/4	3/4	3/4		3/4	
11	2,064.78	11	1,686.73	11	1,309.93	11	932.81	11	554.77	11	202.73	11		11	11	11		11	
1/4	2,056.90	1/4	1,678.86	1/4	1,302.10	1/4	924.93	1/4	546.91	1/4	196.10	1/4		1/4	1/4	1/4		1/4	
1/2	2,049.02	1/2	1,670.98	1/2	1,294.28	1/2	917.06	1/2	539.04	1/2	189.47	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.15	3/4	1,663.10	3/4	1,286.45	3/4	909.18	3/4	531.18	3/4	182.83	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/24/2012 CL - SW
CALCULATED: 04/25/2012 CL
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

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 28190"

1 STBD 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,956.33		4,622.17		4,282.54		3,926.41		3,554.40		3,177.78		2,799.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.95	1/4	4,615.27	1/4	4,275.29	1/4	3,918.82	1/4	3,546.55	1/4	3,169.90	1/4	2,791.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,944.27	1/2	4,608.35	1/2	4,268.03	1/2	3,911.21	1/2	3,538.71	1/2	3,162.02	1/2	2,783.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,937.59	3/4	4,601.42	3/4	4,260.76	3/4	3,903.59	3/4	3,530.87	3/4	3,154.15	3/4	2,776.02		
1	1	1	1	1	1	1	4,930.91	1	4,594.50	1	4,253.49	1	3,895.97	1	3,523.03	1	3,146.27	1	2,768.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,924.23	1/4	4,587.58	1/4	4,246.22	1/4	3,888.36	1/4	3,515.18	1/4	3,138.39	1/4	2,760.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,916.62	1/2	4,580.63	1/2	4,238.93	1/2	3,880.72	1/2	3,507.34	1/2	3,130.51	1/2	2,752.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,909.01	3/4	4,573.67	3/4	4,231.63	3/4	3,873.08	3/4	3,499.50	3/4	3,122.64	3/4	2,744.51		
2	2	2	2	2	2	2	4,901.39	2	4,566.72	2	4,224.34	2	3,865.44	2	3,491.65	2	3,114.76	2	2,736.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.78	1/4	4,559.77	1/4	4,217.04	1/4	3,857.80	1/4	3,483.81	1/4	3,106.88	1/4	2,728.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,885.94	1/2	4,552.79	1/2	4,209.71	1/2	3,850.13	1/2	3,475.97	1/2	3,099.00	1/2	2,720.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,878.10	3/4	4,545.81	3/4	4,202.39	3/4	3,842.46	3/4	3,468.13	3/4	3,091.12	3/4	2,712.99		
3	3	3	3	3	3	3	4,870.25	3	4,538.83	3	4,195.06	3	3,834.79	3	3,460.28	3	3,083.25	3	2,705.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,862.41	1/4	4,531.85	1/4	4,187.74	1/4	3,827.12	1/4	3,452.44	1/4	3,075.37	1/4	2,697.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,855.00	1/2	4,524.84	1/2	4,180.39	1/2	3,819.42	1/2	3,444.60	1/2	3,067.49	1/2	2,689.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,847.59	3/4	4,517.82	3/4	4,173.03	3/4	3,811.73	3/4	3,436.75	3/4	3,059.61	3/4	2,681.48		
4	4	4	4	4	4	4	4,840.18	4	4,510.81	4	4,165.68	4	3,804.03	4	3,428.91	4	3,051.74	4	2,673.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,832.77	1/4	4,503.80	1/4	4,158.32	1/4	3,796.33	1/4	3,421.07	1/4	3,043.86	1/4	2,665.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,826.08	1/2	4,496.77	1/2	4,150.94	1/2	3,788.60	1/2	3,413.23	1/2	3,035.98	1/2	2,657.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,819.38	3/4	4,489.73	3/4	4,143.56	3/4	3,780.88	3/4	3,405.38	3/4	3,028.10	3/4	2,649.97		
5	5	5	5	5	5	5	4,812.69	5	4,482.69	5	4,136.17	5	3,773.15	5	3,397.54	5	3,020.23	5	2,642.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.99	1/4	4,475.65	1/4	4,128.79	1/4	3,765.42	1/4	3,389.70	1/4	3,012.35	1/4	2,634.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,799.27	1/2	4,468.58	1/2	4,121.38	1/2	3,757.67	1/2	3,381.86	1/2	3,004.47	1/2	2,626.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,792.54	3/4	4,461.51	3/4	4,113.97	3/4	3,749.91	3/4	3,374.01	3/4	2,996.59	3/4	2,618.46		
6	6	6	6	6	6	6	4,785.82	6	4,454.44	6	4,106.56	6	3,742.16	6	3,366.17	6	2,988.71	6	2,610.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,779.09	1/4	4,447.38	1/4	4,099.15	1/4	3,734.40	1/4	3,358.33	1/4	2,980.84	1/4	2,602.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,772.34	1/2	4,440.28	1/2	4,091.71	1/2	3,726.62	1/2	3,350.48	1/2	2,972.96	1/2	2,594.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,765.59	3/4	4,433.18	3/4	4,084.26	3/4	3,718.83	3/4	3,342.64	3/4	2,965.08	3/4	2,586.95		
7	7	7	7	7	7	7	4,758.83	7	4,426.09	7	4,076.82	7	3,711.05	7	3,334.80	7	2,957.20	7	2,579.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,752.08	1/4	4,418.99	1/4	4,069.38	1/4	3,703.26	1/4	3,326.96	1/4	2,949.33	1/4	2,571.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,745.29	1/2	4,411.86	1/2	4,061.91	1/2	3,695.45	1/2	3,319.11	1/2	2,941.45	1/2	2,563.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,738.51	3/4	4,404.74	3/4	4,054.44	3/4	3,687.64	3/4	3,311.27	3/4	2,933.57	3/4	2,555.44		
8	8	8	8	8	8	8	4,731.73	8	4,397.61	8	4,046.97	8	3,679.82	8	3,303.43	8	2,925.69	8	2,547.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,724.95	1/4	4,390.48	1/4	4,039.50	1/4	3,672.01	1/4	3,295.58	1/4	2,917.81	1/4	2,539.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.13	1/2	4,383.33	1/2	4,032.01	1/2	3,664.17	1/2	3,287.74	1/2	2,909.94	1/2	2,531.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,711.32	3/4	4,376.17	3/4	4,024.51	3/4	3,656.34	3/4	3,279.90	3/4	2,902.06	3/4	2,523.93		
9	9	9	9	9	9	9	4,704.51	9	4,369.02	9	4,017.01	9	3,648.50	9	3,272.06	9	2,894.18	9	2,516.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,697.70	1/4	4,361.86	1/4	4,009.51	1/4	3,640.67	1/4	3,264.21	1/4	2,886.30	1/4	2,508.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,690.86	1/2	4,354.68	1/2	4,001.98	1/2	3,632.82	1/2	3,256.37	1/2	2,878.43	1/2	2,500.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.02	3/4	4,347.49	3/4	3,994.45	3/4	3,624.98	3/4	3,248.53	3/4	2,870.55	3/4	2,492.42		
10	10	10	10	10	10	10	4,677.18	10	4,340.31	10	3,986.92	10	3,617.14	10	3,240.68	10	2,862.67	10	2,484.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,670.33	1/4	4,333.12	1/4	3,979.40	1/4	3,609.30	1/4	3,232.84	1/4	2,854.79	1/4	2,476.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.46	1/2	4,325.91	1/2	3,971.84	1/2	3,601.45	1/2	3,224.98	1/2	2,846.92	1/2	2,468.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,656.59	3/4	4,318.69	3/4	3,964.28	3/4	3,593.61	3/4	3,217.13	3/4	2,839.04	3/4	2,460.91		
11	11	11	11	11	11	11	4,649.72	11	4,311.48	11	3,956.72	11	3,585.77	11	3,209.27	11	2,831.16	11	2,453.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.85	1/4	4,304.27	1/4	3,949.17	1/4	3,577.93	1/4	3,201.41	1/4	2,823.28	1/4	2,445.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.96	1/2	4,297.02	1/2	3,941.58	1/2	3,570.08	1/2	3,193.53	1/2	2,815.40	1/2	2,437.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,629.06	3/4	4,289.78	3/4	3,933.99	3/4	3,562.24	3/4	3,185.66	3/4	2,807.53	3/4	2,429.40		

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
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BARGE "KIRBY 28190"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,421.52	0	2,043.39	0	1,665.26	0	1,287.13	0	909.30	0	531.30	0	182.88	0		0		0		0	
1/4	2,413.64	1/4	2,035.51	1/4	1,657.38	1/4	1,279.25	1/4	901.43	1/4	523.43	1/4	176.24	1/4	1/4	1/4		1/4		1/4	
1/2	2,405.76	1/2	2,027.63	1/2	1,649.51	1/2	1,271.38	1/2	893.57	1/2	515.61	1/2	169.72	1/2	1/2	1/2		1/2		1/2	
3/4	2,397.89	3/4	2,019.76	3/4	1,641.63	3/4	1,263.50	3/4	885.70	3/4	507.79	3/4	163.20	3/4	3/4	3/4		3/4		3/4	
1	2,390.01	1	2,011.88	1	1,633.75	1	1,255.62	1	877.84	1	499.97	1	156.68	1	1	1		1		1	
1/4	2,382.13	1/4	2,004.00	1/4	1,625.87	1/4	1,247.74	1/4	869.97	1/4	492.15	1/4	150.16	1/4	1/4	1/4		1/4		1/4	
1/2	2,374.25	1/2	1,996.12	1/2	1,617.99	1/2	1,239.86	1/2	862.10	1/2	484.43	1/2	143.76	1/2	1/2	1/2		1/2		1/2	
3/4	2,366.38	3/4	1,988.25	3/4	1,610.12	3/4	1,231.99	3/4	854.23	3/4	476.70	3/4	137.35	3/4	3/4	3/4		3/4		3/4	
2	2,358.50	2	1,980.37	2	1,602.24	2	1,224.11	2	846.36	2	468.97	2	130.95	2	2	2		2		2	
1/4	2,350.62	1/4	1,972.49	1/4	1,594.36	1/4	1,216.23	1/4	838.49	1/4	461.25	1/4	124.54	1/4	1/4	1/4		1/4		1/4	
1/2	2,342.74	1/2	1,964.61	1/2	1,586.48	1/2	1,208.35	1/2	830.61	1/2	453.63	1/2	118.26	1/2	1/2	1/2		1/2		1/2	
3/4	2,334.87	3/4	1,956.74	3/4	1,578.61	3/4	1,200.48	3/4	822.74	3/4	446.01	3/4	111.97	3/4	3/4	3/4		3/4		3/4	
3	2,326.99	3	1,948.86	3	1,570.73	3	1,192.60	3	814.86	3	438.39	3	105.69	3	3	3		3		3	
1/4	2,319.11	1/4	1,940.98	1/4	1,562.85	1/4	1,184.72	1/4	806.98	1/4	430.78	1/4	99.41	1/4	1/4	1/4		1/4		1/4	
1/2	2,311.23	1/2	1,933.10	1/2	1,554.97	1/2	1,176.84	1/2	799.10	1/2	423.27	1/2	93.25	1/2	1/2	1/2		1/2		1/2	
3/4	2,303.35	3/4	1,925.22	3/4	1,547.10	3/4	1,168.97	3/4	791.23	3/4	415.76	3/4	87.10	3/4	3/4	3/4		3/4		3/4	
4	2,295.48	4	1,917.35	4	1,539.22	4	1,161.09	4	783.35	4	408.25	4	80.94	4	4	4		4		4	
1/4	2,287.60	1/4	1,909.47	1/4	1,531.34	1/4	1,153.21	1/4	775.47	1/4	400.74	1/4	74.79	1/4	1/4	1/4		1/4		1/4	
1/2	2,279.72	1/2	1,901.59	1/2	1,523.46	1/2	1,145.33	1/2	767.59	1/2	393.34	1/2	68.78	1/2	1/2	1/2		1/2		1/2	
3/4	2,271.84	3/4	1,893.71	3/4	1,515.58	3/4	1,137.45	3/4	759.72	3/4	385.95	3/4	62.76	3/4	3/4	3/4		3/4		3/4	
5	2,263.97	5	1,885.84	5	1,507.71	5	1,129.58	5	751.84	5	378.55	5	56.75	5	5	5		5		5	
1/4	2,256.09	1/4	1,877.96	1/4	1,499.83	1/4	1,121.70	1/4	743.96	1/4	371.15	1/4	50.74	1/4	1/4	1/4		1/4		1/4	
1/2	2,248.21	1/2	1,870.08	1/2	1,491.95	1/2	1,113.83	1/2	736.08	1/2	363.86	1/2	45.32	1/2	1/2	1/2		1/2		1/2	
3/4	2,240.33	3/4	1,862.20	3/4	1,484.07	3/4	1,105.95	3/4	728.21	3/4	356.57	3/4	39.90	3/4	3/4	3/4		3/4		3/4	
6	2,232.46	6	1,854.33	6	1,476.20	6	1,098.08	6	720.33	6	349.28	6	34.48	6	6	6		6		6	
1/4	2,224.58	1/4	1,846.45	1/4	1,468.32	1/4	1,090.21	1/4	712.45	1/4	341.99	1/4	29.06	1/4	1/4	1/4		1/4		1/4	
1/2	2,216.70	1/2	1,838.57	1/2	1,460.44	1/2	1,082.34	1/2	704.57	1/2	334.81	1/2	25.09	1/2	1/2	1/2		1/2		1/2	
3/4	2,208.82	3/4	1,830.69	3/4	1,452.56	3/4	1,074.48	3/4	696.70	3/4	327.63	3/4	21.13	3/4	3/4	3/4		3/4		3/4	
7	2,200.94	7	1,822.81	7	1,444.69	7	1,066.61	7	688.82	7	320.45	7	17.16	7	7	7		7		7	
1/4	2,193.07	1/4	1,814.94	1/4	1,436.81	1/4	1,058.74	1/4	680.94	1/4	313.27	1/4	13.19	1/4	1/4	1/4		1/4		1/4	
1/2	2,185.19	1/2	1,807.06	1/2	1,428.93	1/2	1,050.88	1/2	673.06	1/2	306.20	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,177.31	3/4	1,799.18	3/4	1,421.05	3/4	1,043.01	3/4	665.19	3/4	299.13	3/4		3/4	3/4	3/4		3/4		3/4	
8	2,169.43	8	1,791.30	8	1,413.17	8	1,035.15	8	657.31	8	292.06	8		8	8	8		8		8	
1/4	2,161.56	1/4	1,783.43	1/4	1,405.30	1/4	1,027.28	1/4	649.43	1/4	284.99	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,153.68	1/2	1,775.55	1/2	1,397.42	1/2	1,019.42	1/2	641.55	1/2	278.03	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,145.80	3/4	1,767.67	3/4	1,389.54	3/4	1,011.55	3/4	633.68	3/4	271.07	3/4		3/4	3/4	3/4		3/4		3/4	
9	2,137.92	9	1,759.79	9	1,381.66	9	1,003.69	9	625.80	9	264.11	9		9	9	9		9		9	
1/4	2,130.04	1/4	1,751.92	1/4	1,373.79	1/4	995.82	1/4	617.92	1/4	257.15	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,122.17	1/2	1,744.04	1/2	1,365.91	1/2	987.95	1/2	610.04	1/2	250.30	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,114.29	3/4	1,736.16	3/4	1,358.03	3/4	980.09	3/4	602.17	3/4	243.44	3/4		3/4	3/4	3/4		3/4		3/4	
10	2,106.41	10	1,728.28	10	1,350.15	10	972.22	10	594.29	10	236.59	10		10	10	10		10		10	
1/4	2,098.53	1/4	1,720.40	1/4	1,342.27	1/4	964.36	1/4	586.41	1/4	229.74	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,090.66	1/2	1,712.53	1/2	1,334.40	1/2	956.49	1/2	578.53	1/2	223.00	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,082.78	3/4	1,704.65	3/4	1,326.52	3/4	948.63	3/4	570.66	3/4	216.26	3/4		3/4	3/4	3/4		3/4		3/4	
11	2,074.90	11	1,696.77	11	1,318.64	11	940.76	11	562.78	11	209.52	11		11	11	11		11		11	
1/4	2,067.02	1/4	1,688.89	1/4	1,310.76	1/4	932.89	1/4	554.90	1/4	202.77	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	2,059.15	1/2	1,681.02	1/2	1,302.89	1/2	925.03	1/2	547.03	1/2	196.14	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	2,051.27	3/4	1,673.14	3/4	1,295.01	3/4	917.16	3/4	539.17	3/4	189.51	3/4		3/4	3/4	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2012 CL - SW
CALCULATED: 04/25/2012 CL
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

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



BARGE "KIRBY 28190"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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
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	
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	
1/2		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	
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	
1/2		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	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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
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	
1/2		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	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

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 28190"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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
	2,359.11		1,999.85		1,640.60		1,290.25		945.23		587.34		228.10						
1/4	2,351.62	1/4	1,992.37	1/4	1,633.11	1/4	1,283.05	1/4	938.05	1/4	579.86	1/4	220.61	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,344.14	1/2	1,984.88	1/2	1,625.63	1/2	1,275.85	1/2	930.87	1/2	572.37	1/2	213.13	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,336.65	3/4	1,977.40	3/4	1,618.14	3/4	1,268.65	3/4	923.57	3/4	564.89	3/4	205.65	3/4	3/4	3/4	3/4	3/4	3/4
1	2,329.17	1	1,969.91	1	1,610.66	1	1,261.45	1	916.28	1	557.41	1	198.16	1	1	1	1	1	1
1/4	2,321.69	1/4	1,962.43	1/4	1,603.17	1/4	1,254.25	1/4	908.98	1/4	549.92	1/4	190.68	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,314.20	1/2	1,954.95	1/2	1,595.69	1/2	1,247.05	1/2	901.68	1/2	542.44	1/2	183.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,306.72	3/4	1,947.46	3/4	1,588.20	3/4	1,239.84	3/4	894.20	3/4	534.95	3/4	175.72	3/4	3/4	3/4	3/4	3/4	3/4
2	2,299.23	2	1,939.98	2	1,580.72	2	1,232.64	2	886.71	2	527.47	2	168.25	2	2	2	2	2	2
1/4	2,291.75	1/4	1,932.49	1/4	1,573.24	1/4	1,225.44	1/4	879.23	1/4	519.98	1/4	160.77	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,284.26	1/2	1,925.01	1/2	1,565.75	1/2	1,218.24	1/2	871.75	1/2	512.50	1/2	153.30	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,276.78	3/4	1,917.52	3/4	1,558.27	3/4	1,211.04	3/4	864.26	3/4	505.02	3/4	145.83	3/4	3/4	3/4	3/4	3/4	3/4
3	2,269.29	3	1,910.04	3	1,550.78	3	1,203.85	3	856.78	3	497.53	3	138.37	3	3	3	3	3	3
1/4	2,261.81	1/4	1,902.55	1/4	1,543.30	1/4	1,196.65	1/4	849.29	1/4	490.05	1/4	130.90	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,254.33	1/2	1,895.07	1/2	1,535.81	1/2	1,189.45	1/2	841.81	1/2	482.56	1/2	123.44	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,246.84	3/4	1,887.58	3/4	1,528.43	3/4	1,182.26	3/4	834.32	3/4	475.08	3/4	115.99	3/4	3/4	3/4	3/4	3/4	3/4
4	2,239.36	4	1,880.10	4	1,521.06	4	1,175.08	4	826.84	4	467.59	4	108.54	4	4	4	4	4	4
1/4	2,231.87	1/4	1,872.62	1/4	1,513.68	1/4	1,167.89	1/4	819.36	1/4	460.11	1/4	101.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,224.39	1/2	1,865.13	1/2	1,506.30	1/2	1,160.70	1/2	811.87	1/2	452.63	1/2	93.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,216.90	3/4	1,857.65	3/4	1,499.10	3/4	1,153.51	3/4	804.39	3/4	445.14	3/4	86.24	3/4	3/4	3/4	3/4	3/4	3/4
5	2,209.42	5	1,850.16	5	1,491.90	5	1,146.33	5	796.90	5	437.66	5	78.82	5	5	5	5	5	5
1/4	2,201.93	1/4	1,842.68	1/4	1,484.70	1/4	1,139.14	1/4	789.42	1/4	430.17	1/4	71.40	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,194.45	1/2	1,835.19	1/2	1,477.49	1/2	1,131.95	1/2	781.93	1/2	422.69	1/2	63.99	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,186.96	3/4	1,827.71	3/4	1,470.29	3/4	1,124.77	3/4	774.45	3/4	415.20	3/4	57.03	3/4	3/4	3/4	3/4	3/4	3/4
6	2,179.48	6	1,820.22	6	1,463.09	6	1,117.59	6	766.97	6	407.72	6	50.08	6	6	6	6	6	6
1/4	2,172.00	1/4	1,812.74	1/4	1,455.89	1/4	1,110.41	1/4	759.48	1/4	400.24	1/4	43.12	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,164.51	1/2	1,805.26	1/2	1,448.69	1/2	1,103.23	1/2	752.00	1/2	392.75	1/2	36.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,157.03	3/4	1,797.77	3/4	1,441.49	3/4	1,096.05	3/4	744.51	3/4	385.27	3/4	30.87	3/4	3/4	3/4	3/4	3/4	3/4
7	2,149.54	7	1,790.29	7	1,434.28	7	1,088.86	7	737.03	7	377.78	7	25.57	7	7	7	7	7	7
1/4	2,142.06	1/4	1,782.80	1/4	1,427.08	1/4	1,081.68	1/4	729.54	1/4	370.30	1/4	20.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,134.57	1/2	1,775.32	1/2	1,419.88	1/2	1,074.50	1/2	722.06	1/2	362.81	1/2	14.97	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,127.09	3/4	1,767.83	3/4	1,412.68	3/4	1,067.32	3/4	714.58	3/4	355.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,119.60	8	1,760.35	8	1,405.48	8	1,060.14	8	707.09	8	347.84	8		8	8	8	8	8	8
1/4	2,112.12	1/4	1,752.86	1/4	1,398.28	1/4	1,052.96	1/4	699.61	1/4	340.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,104.64	1/2	1,745.38	1/2	1,391.08	1/2	1,045.77	1/2	692.12	1/2	332.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,097.15	3/4	1,737.89	3/4	1,383.87	3/4	1,038.59	3/4	684.64	3/4	325.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,089.67	9	1,730.41	9	1,376.67	9	1,031.41	9	677.15	9	317.91	9		9	9	9	9	9	9
1/4	2,082.18	1/4	1,722.93	1/4	1,369.47	1/4	1,024.23	1/4	669.67	1/4	310.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,074.70	1/2	1,715.44	1/2	1,362.27	1/2	1,017.05	1/2	662.19	1/2	302.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,067.21	3/4	1,707.96	3/4	1,355.07	3/4	1,009.87	3/4	654.70	3/4	295.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,059.73	10	1,700.47	10	1,347.87	10	1,002.68	10	647.22	10	287.97	10		10	10	10	10	10	10
1/4	2,052.24	1/4	1,692.99	1/4	1,340.67	1/4	995.50	1/4	639.73	1/4	280.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,044.76	1/2	1,685.50	1/2	1,333.46	1/2	988.32	1/2	632.25	1/2	273.00	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,037.27	3/4	1,678.02	3/4	1,326.26	3/4	981.14	3/4	624.76	3/4	265.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,029.79	11	1,670.53	11	1,319.06	11	973.96	11	617.28	11	258.03	11		11	11	11	11	11	11
1/4	2,022.31	1/4	1,663.05	1/4	1,311.86	1/4	966.78	1/4	609.80	1/4	250.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,014.82	1/2	1,655.57	1/2	1,304.66	1/2	959.59	1/2	602.31	1/2	243.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,007.34	3/4	1,648.08	3/4	1,297.46	3/4	952.41	3/4	594.83	3/4	235.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2012 CL - SW
CALCULATED: 04/25/2012 CL
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

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



BARGE "KIRBY 28190"

2 STBD 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,481.41		4,158.14		3,819.74		3,466.62		3,108.88		2,749.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.82	1/4	4,151.24	1/4	3,812.52	1/4	3,459.17	1/4	3,101.39	1/4	2,742.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,468.86	1/2	4,144.34	1/2	3,805.30	1/2	3,451.71	1/2	3,093.91	1/2	2,734.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,461.66	3/4	4,137.43	3/4	3,798.09	3/4	3,444.26	3/4	3,086.43	3/4	2,727.21
1	1	1	1	1	1	1	1	1	4,455.05	1	4,130.51	1	3,790.84	1	3,436.81	1	3,078.94	1	2,719.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,448.44	1/4	4,123.59	1/4	3,783.60	1/4	3,429.36	1/4	3,071.46	1/4	2,712.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,441.84	1/2	4,116.66	1/2	3,776.36	1/2	3,421.91	1/2	3,063.98	1/2	2,704.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,435.23	3/4	4,109.74	3/4	3,769.11	3/4	3,414.46	3/4	3,056.49	3/4	2,697.27
2	2	2	2	2	2	2	2	2	4,428.59	2	4,102.79	2	3,761.85	2	3,407.00	2	3,049.01	2	2,689.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,421.96	1/4	4,095.84	1/4	3,754.58	1/4	3,399.55	1/4	3,041.52	1/4	2,682.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,415.32	1/2	4,088.89	1/2	3,747.32	1/2	3,392.10	1/2	3,034.04	1/2	2,674.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,408.69	3/4	4,081.94	3/4	3,740.05	3/4	3,384.65	3/4	3,026.56	3/4	2,667.34
3	3	3	3	3	3	3	3	3	4,402.03	3	4,074.96	3	3,732.76	3	3,377.20	3	3,019.07	3	2,659.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,395.36	1/4	4,067.99	1/4	3,725.47	1/4	3,369.75	1/4	3,011.59	1/4	2,652.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,388.70	1/2	4,061.01	1/2	3,718.18	1/2	3,362.30	1/2	3,004.11	1/2	2,644.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,382.04	3/4	4,054.03	3/4	3,710.88	3/4	3,354.84	3/4	2,996.62	3/4	2,637.40
4	4	4	4	4	4	4	4	4	4,375.35	4	4,047.03	4	3,703.57	4	3,347.39	4	2,989.14	4	2,629.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,368.67	1/4	4,040.03	1/4	3,696.25	1/4	3,339.94	1/4	2,981.65	1/4	2,622.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,361.98	1/2	4,033.02	1/2	3,688.93	1/2	3,332.49	1/2	2,974.17	1/2	2,614.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,355.29	3/4	4,026.02	3/4	3,681.61	3/4	3,325.04	3/4	2,966.69	3/4	2,607.47
5	5	5	5	5	5	5	5	5	4,348.58	5	4,018.99	5	3,674.26	5	3,317.59	5	2,959.20	5	2,599.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,341.86	1/4	4,011.96	1/4	3,666.92	1/4	3,310.14	1/4	2,951.72	1/4	2,592.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,335.15	1/2	4,004.93	1/2	3,659.58	1/2	3,302.68	1/2	2,944.24	1/2	2,585.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,328.43	3/4	3,997.90	3/4	3,652.23	3/4	3,295.23	3/4	2,936.75	3/4	2,577.54
6	6	6	6	6	6	6	6	6	4,321.69	6	3,990.84	6	3,644.86	6	3,287.78	6	2,929.27	6	2,570.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,314.95	1/4	3,983.79	1/4	3,637.49	1/4	3,280.33	1/4	2,921.79	1/4	2,562.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,308.21	1/2	3,976.73	1/2	3,630.12	1/2	3,272.88	1/2	2,914.30	1/2	2,555.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,301.47	3/4	3,969.68	3/4	3,622.74	3/4	3,265.43	3/4	2,906.82	3/4	2,547.60
7	7	7	7	7	7	7	7	7	4,294.70	7	3,962.59	7	3,615.35	7	3,257.97	7	2,899.33	7	2,540.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,287.93	1/4	3,955.51	1/4	3,607.95	1/4	3,250.52	1/4	2,891.85	1/4	2,532.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,281.16	1/2	3,948.43	1/2	3,600.55	1/2	3,243.07	1/2	2,884.37	1/2	2,525.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,274.40	3/4	3,941.34	3/4	3,593.15	3/4	3,235.62	3/4	2,876.88	3/4	2,517.67
8	8	8	8	8	8	8	8	8	4,267.60	8	3,934.24	8	3,585.73	8	3,228.17	8	2,869.40	8	2,510.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,260.81	1/4	3,927.13	1/4	3,578.30	1/4	3,220.72	1/4	2,861.92	1/4	2,502.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,254.01	1/2	3,920.02	1/2	3,570.88	1/2	3,213.27	1/2	2,854.43	1/2	2,495.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,247.22	3/4	3,912.91	3/4	3,563.45	3/4	3,205.81	3/4	2,846.95	3/4	2,487.73
9	9	9	9	9	9	9	9	9	4,240.40	9	3,905.77	9	3,556.01	9	3,198.36	9	2,839.46	9	2,480.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,233.58	1/4	3,898.63	1/4	3,548.57	1/4	3,190.91	1/4	2,831.98	1/4	2,472.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,226.76	1/2	3,891.50	1/2	3,541.12	1/2	3,183.46	1/2	2,824.50	1/2	2,465.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,219.93	3/4	3,884.36	3/4	3,533.68	3/4	3,176.01	3/4	2,817.01	3/4	2,457.80
10	10	10	10	10	10	10	10	10	4,213.09	10	3,877.20	10	3,526.23	10	3,168.56	10	2,809.53	10	2,450.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,206.24	1/4	3,870.04	1/4	3,518.78	1/4	3,161.11	1/4	2,802.05	1/4	2,442.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,199.39	1/2	3,862.87	1/2	3,511.33	1/2	3,153.65	1/2	2,794.56	1/2	2,435.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,192.54	3/4	3,855.71	3/4	3,503.87	3/4	3,146.20	3/4	2,787.08	3/4	2,427.86
11	11	11	11	11	11	11	11	11	4,185.67	11	3,848.52	11	3,496.42	11	3,138.74	11	2,779.60	11	2,420.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,178.79	1/4	3,841.33	1/4	3,488.97	1/4	3,131.28	1/4	2,772.11	1/4	2,412.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,171.92	1/2	3,834.14	1/2	3,481.52	1/2	3,123.82	1/2	2,764.63	1/2	2,405.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,165.04	3/4	3,826.95	3/4	3,474.07	3/4	3,116.36	3/4	2,757.14	3/4	2,397.93

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 12'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28190"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,382.96	1/4	2,023.74	1/4	1,664.52	1/4	1,305.31	1/4	946.38	1/4	587.27	1/4	228.07	1/4		1/4		1/4	
1/2	2,375.48	1/2	2,016.26	1/2	1,657.04	1/2	1,297.82	1/2	938.90	1/2	579.79	1/2	220.59	1/2		1/2		1/2	
3/4	2,367.99	3/4	2,008.77	3/4	1,649.56	3/4	1,290.34	3/4	931.43	3/4	572.30	3/4	213.10	3/4		3/4		3/4	
1	2,360.51	1	2,001.29	1	1,642.07	1	1,282.86	1	923.96	1	564.82	1	205.62	1		1		1	
1/4	2,353.02	1/4	1,993.81	1/4	1,634.59	1/4	1,275.37	1/4	916.49	1/4	557.34	1/4	198.14	1/4		1/4		1/4	
1/2	2,345.54	1/2	1,986.32	1/2	1,627.11	1/2	1,267.89	1/2	909.02	1/2	549.85	1/2	190.66	1/2		1/2		1/2	
3/4	2,338.06	3/4	1,978.84	3/4	1,619.62	3/4	1,260.40	3/4	901.55	3/4	542.37	3/4	183.18	3/4		3/4		3/4	
2	2,330.57	2	1,971.36	2	1,612.14	2	1,252.92	2	894.07	2	534.89	2	175.70	2		2		2	
1/4	2,323.09	1/4	1,963.87	1/4	1,604.65	1/4	1,245.44	1/4	886.59	1/4	527.40	1/4	168.23	1/4		1/4		1/4	
1/2	2,315.61	1/2	1,956.39	1/2	1,597.17	1/2	1,237.95	1/2	879.12	1/2	519.92	1/2	160.75	1/2		1/2		1/2	
3/4	2,308.12	3/4	1,948.90	3/4	1,589.69	3/4	1,230.47	3/4	871.64	3/4	512.44	3/4	153.28	3/4		3/4		3/4	
3	2,300.64	3	1,941.42	3	1,582.20	3	1,222.99	3	864.16	3	504.95	3	145.81	3		3		3	
1/4	2,293.15	1/4	1,933.94	1/4	1,574.72	1/4	1,215.50	1/4	856.67	1/4	497.47	1/4	138.35	1/4		1/4		1/4	
1/2	2,285.67	1/2	1,926.45	1/2	1,567.24	1/2	1,208.02	1/2	849.19	1/2	489.99	1/2	130.89	1/2		1/2		1/2	
3/4	2,278.19	3/4	1,918.97	3/4	1,559.75	3/4	1,200.53	3/4	841.71	3/4	482.50	3/4	123.42	3/4		3/4		3/4	
4	2,270.70	4	1,911.49	4	1,552.27	4	1,193.05	4	834.22	4	475.02	4	115.98	4		4		4	
1/4	2,263.22	1/4	1,904.00	1/4	1,544.78	1/4	1,185.57	1/4	826.74	1/4	467.54	1/4	108.53	1/4		1/4		1/4	
1/2	2,255.74	1/2	1,896.52	1/2	1,537.30	1/2	1,178.08	1/2	819.26	1/2	460.05	1/2	101.09	1/2		1/2		1/2	
3/4	2,248.25	3/4	1,889.03	3/4	1,529.82	3/4	1,170.60	3/4	811.77	3/4	452.57	3/4	93.64	3/4		3/4		3/4	
5	2,240.77	5	1,881.55	5	1,522.33	5	1,163.12	5	804.29	5	445.09	5	86.23	5		5		5	
1/4	2,233.28	1/4	1,874.07	1/4	1,514.85	1/4	1,155.63	1/4	796.81	1/4	437.60	1/4	78.81	1/4		1/4		1/4	
1/2	2,225.80	1/2	1,866.58	1/2	1,507.37	1/2	1,148.15	1/2	789.32	1/2	430.12	1/2	71.40	1/2		1/2		1/2	
3/4	2,218.32	3/4	1,859.10	3/4	1,499.88	3/4	1,140.66	3/4	781.84	3/4	422.64	3/4	63.98	3/4		3/4		3/4	
6	2,210.83	6	1,851.62	6	1,492.40	6	1,133.19	6	774.36	6	415.15	6	57.03	6		6		6	
1/4	2,203.35	1/4	1,844.13	1/4	1,484.91	1/4	1,125.71	1/4	766.87	1/4	407.67	1/4	50.07	1/4		1/4		1/4	
1/2	2,195.87	1/2	1,836.65	1/2	1,477.43	1/2	1,118.23	1/2	759.39	1/2	400.19	1/2	43.12	1/2		1/2		1/2	
3/4	2,188.38	3/4	1,829.17	3/4	1,469.95	3/4	1,110.75	3/4	751.91	3/4	392.70	3/4	36.16	3/4		3/4		3/4	
7	2,180.90	7	1,821.68	7	1,462.46	7	1,103.28	7	744.42	7	385.22	7	30.86	7		7		7	
1/4	2,173.42	1/4	1,814.20	1/4	1,454.98	1/4	1,095.81	1/4	736.94	1/4	377.74	1/4	25.57	1/4		1/4		1/4	
1/2	2,165.93	1/2	1,806.71	1/2	1,447.50	1/2	1,088.33	1/2	729.46	1/2	370.25	1/2	20.27	1/2		1/2		1/2	
3/4	2,158.45	3/4	1,799.23	3/4	1,440.01	3/4	1,080.86	3/4	721.97	3/4	362.77	3/4	14.97	3/4		3/4		3/4	
8	2,150.96	8	1,791.75	8	1,432.53	8	1,073.39	8	714.49	8	355.29	8		8		8		8	
1/4	2,143.48	1/4	1,784.26	1/4	1,425.05	1/4	1,065.92	1/4	707.01	1/4	347.80	1/4		1/4		1/4		1/4	
1/2	2,136.00	1/2	1,776.78	1/2	1,417.56	1/2	1,058.45	1/2	699.52	1/2	340.32	1/2		1/2		1/2		1/2	
3/4	2,128.51	3/4	1,769.30	3/4	1,410.08	3/4	1,050.98	3/4	692.04	3/4	332.84	3/4		3/4		3/4		3/4	
9	2,121.03	9	1,761.81	9	1,402.59	9	1,043.50	9	684.56	9	325.35	9		9		9		9	
1/4	2,113.55	1/4	1,754.33	1/4	1,395.11	1/4	1,036.03	1/4	677.07	1/4	317.87	1/4		1/4		1/4		1/4	
1/2	2,106.06	1/2	1,746.84	1/2	1,387.63	1/2	1,028.56	1/2	669.59	1/2	310.39	1/2		1/2		1/2		1/2	
3/4	2,098.58	3/4	1,739.36	3/4	1,380.14	3/4	1,021.09	3/4	662.11	3/4	302.90	3/4		3/4		3/4		3/4	
10	2,091.09	10	1,731.88	10	1,372.66	10	1,013.62	10	654.62	10	295.42	10		10		10		10	
1/4	2,083.61	1/4	1,724.39	1/4	1,365.18	1/4	1,006.15	1/4	647.14	1/4	287.94	1/4		1/4		1/4		1/4	
1/2	2,076.13	1/2	1,716.91	1/2	1,357.69	1/2	998.68	1/2	639.65	1/2	280.45	1/2		1/2		1/2		1/2	
3/4	2,068.64	3/4	1,709.43	3/4	1,350.21	3/4	991.20	3/4	632.17	3/4	272.97	3/4		3/4		3/4		3/4	
11	2,061.16	11	1,701.94	11	1,342.72	11	983.73	11	624.69	11	265.48	11		11		11		11	
1/4	2,053.68	1/4	1,694.46	1/4	1,335.24	1/4	976.26	1/4	617.20	1/4	258.00	1/4		1/4		1/4		1/4	
1/2	2,046.19	1/2	1,686.97	1/2	1,327.76	1/2	968.79	1/2	609.72	1/2	250.52	1/2		1/2		1/2		1/2	
3/4	2,038.71	3/4	1,679.49	3/4	1,320.27	3/4	961.32	3/4	602.24	3/4	243.03	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/24/2012 CL - SW
CALCULATED: 04/25/2012 CL
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28190"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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		
							4,358.17		4,117.25		3,870.81		3,612.38		3,342.24		2,989.81		2,633.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,353.54	1/4	4,112.24	1/4	3,865.55	1/4	3,606.87	1/4	3,336.54	1/4	2,982.39	1/4	2,625.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.90	1/2	4,107.23	1/2	3,860.29	1/2	3,601.36	1/2	3,330.83	1/2	2,974.96	1/2	2,618.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,344.75	3/4	4,102.21	3/4	3,855.01	3/4	3,595.82	3/4	3,323.40	3/4	2,967.53	3/4	2,611.04		
1	1	1	1	1	1	1	4,340.60	1	4,097.18	1	3,849.73	1	3,590.29	1	3,315.97	1	2,960.11	1	2,603.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,336.44	1/4	4,092.15	1/4	3,844.45	1/4	3,584.76	1/4	3,308.54	1/4	2,952.68	1/4	2,596.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.29	1/2	4,087.12	1/2	3,839.17	1/2	3,579.22	1/2	3,301.11	1/2	2,945.25	1/2	2,588.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.93	3/4	4,082.07	3/4	3,833.87	3/4	3,573.67	3/4	3,293.68	3/4	2,937.83	3/4	2,581.33		
2	2	2	2	2	2	2	4,321.58	2	4,077.02	2	3,828.57	2	3,568.12	2	3,286.25	2	2,930.40	2	2,573.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,316.22	1/4	4,071.97	1/4	3,823.27	1/4	3,562.57	1/4	3,278.82	1/4	2,922.97	1/4	2,566.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,310.86	1/2	4,066.92	1/2	3,817.97	1/2	3,557.02	1/2	3,271.39	1/2	2,915.55	1/2	2,559.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,305.16	3/4	4,061.85	3/4	3,812.65	3/4	3,551.45	3/4	3,263.96	3/4	2,908.12	3/4	2,551.63		
3	3	3	3	3	3	3	4,299.45	3	4,056.78	3	3,807.33	3	3,545.88	3	3,256.53	3	2,900.69	3	2,544.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,293.75	1/4	4,051.71	1/4	3,802.01	1/4	3,540.31	1/4	3,249.10	1/4	2,893.26	1/4	2,536.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,288.04	1/2	4,046.64	1/2	3,796.68	1/2	3,534.74	1/2	3,241.67	1/2	2,885.84	1/2	2,529.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,282.34	3/4	4,041.55	3/4	3,791.34	3/4	3,529.15	3/4	3,234.24	3/4	2,878.41	3/4	2,521.92		
4	4	4	4	4	4	4	4,276.63	4	4,036.46	4	3,786.00	4	3,523.56	4	3,226.81	4	2,870.98	4	2,514.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.93	1/4	4,031.36	1/4	3,780.66	1/4	3,517.97	1/4	3,219.38	1/4	2,863.56	1/4	2,507.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,265.22	1/2	4,026.27	1/2	3,775.32	1/2	3,512.37	1/2	3,211.95	1/2	2,856.13	1/2	2,499.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,260.36	3/4	4,021.16	3/4	3,769.96	3/4	3,506.76	3/4	3,204.55	3/4	2,848.70	3/4	2,492.21		
5	5	5	5	5	5	5	4,255.49	5	4,016.05	5	3,764.59	5	3,501.15	5	3,197.14	5	2,841.28	5	2,484.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,250.63	1/4	4,010.94	1/4	3,759.23	1/4	3,495.54	1/4	3,189.74	1/4	2,833.85	1/4	2,477.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,245.77	1/2	4,005.82	1/2	3,753.86	1/2	3,489.93	1/2	3,182.34	1/2	2,826.42	1/2	2,469.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,240.88	3/4	4,000.69	3/4	3,748.48	3/4	3,484.29	3/4	3,174.93	3/4	2,819.00	3/4	2,462.50		
6	6	6	6	6	6	6	4,236.00	6	3,995.55	6	3,743.10	6	3,478.66	6	3,167.53	6	2,811.57	6	2,455.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,231.12	1/4	3,990.42	1/4	3,737.72	1/4	3,473.02	1/4	3,160.13	1/4	2,804.14	1/4	2,447.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,226.23	1/2	3,985.28	1/2	3,732.33	1/2	3,467.39	1/2	3,152.73	1/2	2,796.72	1/2	2,440.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,221.33	3/4	3,980.13	3/4	3,726.93	3/4	3,461.74	3/4	3,145.32	3/4	2,789.29	3/4	2,432.80		
7	7	7	7	7	7	7	4,216.42	7	3,974.98	7	3,721.52	7	3,456.08	7	3,137.92	7	2,781.86	7	2,425.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,211.51	1/4	3,969.82	1/4	3,716.12	1/4	3,450.43	1/4	3,130.52	1/4	2,774.43	1/4	2,417.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,206.61	1/2	3,964.67	1/2	3,710.71	1/2	3,444.78	1/2	3,123.11	1/2	2,767.01	1/2	2,410.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,201.68	3/4	3,959.49	3/4	3,705.29	3/4	3,439.10	3/4	3,115.71	3/4	2,759.58	3/4	2,403.09		
8	8	8	8	8	8	8	4,196.76	8	3,954.31	8	3,699.86	8	3,433.42	8	3,108.31	8	2,752.15	8	2,395.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,191.83	1/4	3,949.13	1/4	3,694.44	1/4	3,427.75	1/4	3,100.91	1/4	2,744.73	1/4	2,388.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,186.91	1/2	3,943.96	1/2	3,689.02	1/2	3,422.07	1/2	3,093.50	1/2	2,737.30	1/2	2,380.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,181.96	3/4	3,938.76	3/4	3,683.57	3/4	3,416.38	3/4	3,086.10	3/4	2,729.87	3/4	2,373.38		
9	9	9	9	9	9	9	4,177.01	9	3,933.56	9	3,678.12	9	3,410.68	9	3,078.70	9	2,722.45	9	2,365.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,172.06	1/4	3,928.37	1/4	3,672.67	1/4	3,404.99	1/4	3,071.29	1/4	2,715.02	1/4	2,358.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,167.11	1/2	3,923.17	1/2	3,667.22	1/2	3,399.29	1/2	3,063.89	1/2	2,707.59	1/2	2,351.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,162.14	3/4	3,917.95	3/4	3,661.76	3/4	3,393.58	3/4	3,056.49	3/4	2,700.17	3/4	2,343.67		
10	10	10	10	10	10	10	4,157.17	10	3,912.73	10	3,656.29	10	3,387.88	10	3,049.09	10	2,692.74	10	2,336.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,152.21	1/4	3,907.51	1/4	3,650.82	1/4	3,382.18	1/4	3,041.68	1/4	2,685.31	1/4	2,328.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,147.24	1/2	3,902.29	1/2	3,645.36	1/2	3,376.47	1/2	3,034.28	1/2	2,677.88	1/2	2,321.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,142.25	3/4	3,897.05	3/4	3,639.87	3/4	3,370.77	3/4	3,026.88	3/4	2,670.46	3/4	2,313.96		
11	11	11	11	11	11	11	4,137.26	11	3,891.81	11	3,634.37	11	3,365.06	11	3,019.47	11	2,663.03	11	2,306.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,132.26	1/4	3,886.58	1/4	3,628.88	1/4	3,359.36	1/4	3,012.07	1/4	2,655.60	1/4	2,299.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,367.44	1/2	4,127.27	1/2	3,881.34	1/2	3,623.39	1/2	3,353.65	1/2	3,004.67	1/2	2,648.18	1/2	2,291.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,362.81	3/4	4,122.26	3/4	3,876.08	3/4	3,617.88	3/4	3,347.95	3/4	2,997.24	3/4	2,640.75	3/4	2,284.25

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 28190"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	2,276.83	0	1,919.88	0	1,563.90	0	1,207.30	0	863.00	0	505.96	0	148.70	0		0		0	
1/4	2,269.40	1/4	1,912.44	1/4	1,556.49	1/4	1,200.12	1/4	855.58	1/4	498.51	1/4	141.26	1/4		1/4		1/4	
1/2	2,261.97	1/2	1,905.00	1/2	1,549.07	1/2	1,192.95	1/2	848.16	1/2	491.07	1/2	133.82	1/2		1/2		1/2	
3/4	2,254.54	3/4	1,897.59	3/4	1,541.63	3/4	1,185.78	3/4	840.73	3/4	483.63	3/4	126.37	3/4		3/4		3/4	
1	2,247.12	1	1,890.17	1	1,534.19	1	1,178.60	1	833.31	1	476.18	1	118.93	1		1		1	
1/4	2,239.69	1/4	1,882.76	1/4	1,526.75	1/4	1,171.43	1/4	825.89	1/4	468.74	1/4	111.49	1/4		1/4		1/4	
1/2	2,232.26	1/2	1,875.34	1/2	1,519.31	1/2	1,164.26	1/2	818.47	1/2	461.30	1/2	104.05	1/2		1/2		1/2	
3/4	2,224.83	3/4	1,867.92	3/4	1,511.86	3/4	1,157.08	3/4	811.05	3/4	453.86	3/4	96.92	3/4		3/4		3/4	
2	2,217.41	2	1,860.51	2	1,504.42	2	1,149.91	2	803.63	2	446.41	2	89.79	2		2		2	
1/4	2,209.98	1/4	1,853.09	1/4	1,496.98	1/4	1,142.74	1/4	796.20	1/4	438.97	1/4	82.66	1/4		1/4		1/4	
1/2	2,202.55	1/2	1,845.68	1/2	1,489.54	1/2	1,135.56	1/2	788.78	1/2	431.53	1/2	75.54	1/2		1/2		1/2	
3/4	2,195.12	3/4	1,838.26	3/4	1,482.10	3/4	1,128.39	3/4	781.34	3/4	424.09	3/4	69.35	3/4		3/4		3/4	
3	2,187.70	3	1,830.85	3	1,474.66	3	1,121.22	3	773.90	3	416.64	3	63.16	3		3		3	
1/4	2,180.27	1/4	1,823.43	1/4	1,467.21	1/4	1,114.04	1/4	766.45	1/4	409.20	1/4	56.98	1/4		1/4		1/4	
1/2	2,172.84	1/2	1,816.02	1/2	1,459.77	1/2	1,106.87	1/2	759.01	1/2	401.76	1/2	50.79	1/2		1/2		1/2	
3/4	2,165.41	3/4	1,808.60	3/4	1,452.33	3/4	1,099.70	3/4	751.57	3/4	394.31	3/4	45.86	3/4		3/4		3/4	
4	2,157.99	4	1,801.19	4	1,444.89	4	1,092.52	4	744.13	4	386.87	4	40.93	4		4		4	
1/4	2,150.56	1/4	1,793.77	1/4	1,437.45	1/4	1,085.35	1/4	736.68	1/4	379.43	1/4	36.00	1/4		1/4		1/4	
1/2	2,143.13	1/2	1,786.36	1/2	1,430.01	1/2	1,078.18	1/2	729.24	1/2	371.99	1/2	31.07	1/2		1/2		1/2	
3/4	2,135.69	3/4	1,778.94	3/4	1,422.57	3/4	1,071.02	3/4	721.80	3/4	364.54	3/4	27.40	3/4		3/4		3/4	
5	2,128.25	5	1,771.53	5	1,415.12	5	1,063.86	5	714.35	5	357.10	5	23.74	5		5		5	
1/4	2,120.81	1/4	1,764.11	1/4	1,407.68	1/4	1,056.70	1/4	706.91	1/4	349.66	1/4	20.07	1/4		1/4		1/4	
1/2	2,113.37	1/2	1,756.70	1/2	1,400.24	1/2	1,049.54	1/2	699.47	1/2	342.21	1/2	16.40	1/2		1/2		1/2	
3/4	2,105.92	3/4	1,749.28	3/4	1,392.80	3/4	1,042.38	3/4	692.03	3/4	334.77	3/4		3/4		3/4		3/4	
6	2,098.48	6	1,741.87	6	1,385.36	6	1,035.22	6	684.58	6	327.33	6		6		6		6	
1/4	2,091.04	1/4	1,734.45	1/4	1,377.92	1/4	1,028.06	1/4	677.14	1/4	319.89	1/4		1/4		1/4		1/4	
1/2	2,083.60	1/2	1,727.04	1/2	1,370.48	1/2	1,020.90	1/2	669.70	1/2	312.44	1/2		1/2		1/2		1/2	
3/4	2,076.16	3/4	1,719.62	3/4	1,363.03	3/4	1,013.74	3/4	662.25	3/4	305.00	3/4		3/4		3/4		3/4	
7	2,068.72	7	1,712.21	7	1,355.59	7	1,006.59	7	654.81	7	297.56	7		7		7		7	
1/4	2,061.27	1/4	1,704.79	1/4	1,348.15	1/4	999.43	1/4	647.37	1/4	290.11	1/4		1/4		1/4		1/4	
1/2	2,053.83	1/2	1,697.38	1/2	1,340.71	1/2	992.28	1/2	639.93	1/2	282.67	1/2		1/2		1/2		1/2	
3/4	2,046.39	3/4	1,689.96	3/4	1,333.27	3/4	985.12	3/4	632.48	3/4	275.23	3/4		3/4		3/4		3/4	
8	2,038.95	8	1,682.54	8	1,325.83	8	977.97	8	625.04	8	267.79	8		8		8		8	
1/4	2,031.51	1/4	1,675.13	1/4	1,318.38	1/4	970.82	1/4	617.60	1/4	260.34	1/4		1/4		1/4		1/4	
1/2	2,024.07	1/2	1,667.71	1/2	1,310.94	1/2	963.67	1/2	610.16	1/2	252.90	1/2		1/2		1/2		1/2	
3/4	2,016.62	3/4	1,660.30	3/4	1,303.50	3/4	956.52	3/4	602.71	3/4	245.46	3/4		3/4		3/4		3/4	
9	2,009.18	9	1,652.88	9	1,296.06	9	949.36	9	595.27	9	238.02	9		9		9		9	
1/4	2,001.74	1/4	1,645.47	1/4	1,288.62	1/4	942.21	1/4	587.83	1/4	230.57	1/4		1/4		1/4		1/4	
1/2	1,994.30	1/2	1,638.05	1/2	1,281.18	1/2	935.06	1/2	580.38	1/2	223.13	1/2		1/2		1/2		1/2	
3/4	1,986.86	3/4	1,630.64	3/4	1,273.74	3/4	927.91	3/4	572.94	3/4	215.69	3/4		3/4		3/4		3/4	
10	1,979.42	10	1,623.22	10	1,266.29	10	920.76	10	565.50	10	208.24	10		10		10		10	
1/4	1,971.98	1/4	1,615.81	1/4	1,258.85	1/4	913.60	1/4	558.06	1/4	200.80	1/4		1/4		1/4		1/4	
1/2	1,964.53	1/2	1,608.39	1/2	1,251.41	1/2	906.45	1/2	550.61	1/2	193.36	1/2		1/2		1/2		1/2	
3/4	1,957.09	3/4	1,600.98	3/4	1,243.97	3/4	899.30	3/4	543.17	3/4	185.92	3/4		3/4		3/4		3/4	
11	1,949.65	11	1,593.56	11	1,236.53	11	892.15	11	535.73	11	178.47	11		11		11		11	
1/4	1,942.21	1/4	1,586.15	1/4	1,229.09	1/4	884.99	1/4	528.28	1/4	171.03	1/4		1/4		1/4		1/4	
1/2	1,934.77	1/2	1,578.73	1/2	1,221.65	1/2	877.84	1/2	520.84	1/2	163.59	1/2		1/2		1/2		1/2	
3/4	1,927.33	3/4	1,571.32	3/4	1,214.47	3/4	870.42	3/4	513.40	3/4	156.14	3/4		3/4		3/4		3/4	

STRAPPED: 04/24/2012 CL - SW
CALCULATED: 04/25/2012 CL
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28190"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4	4,372.08	1/4	4,128.41	1/4	3,880.08	1/4	3,619.76	1/4	3,346.17	1/4	2,988.39	1/4	2,630.61		
1/2		1/2		1/2		1/2	4,367.91	1/2	4,123.36	1/2	3,874.78	1/2	3,614.20	1/2	3,338.71	1/2	2,980.94	1/2	2,623.16		
3/4		3/4		3/4		3/4	4,363.73	3/4	4,118.31	3/4	3,869.47	3/4	3,608.65	3/4	3,331.26	3/4	2,973.48	3/4	2,615.70		
1		1		1		1	4,359.56	1	4,113.26	1	3,864.17	1	3,603.09	1	3,323.81	1	2,966.03	1	2,608.25		
1/4		1/4		1/4		1/4	4,354.18	1/4	4,108.19	1/4	3,858.85	1/4	3,597.51	1/4	3,316.35	1/4	2,958.57	1/4	2,600.80		
1/2		1/2		1/2		1/2	4,348.80	1/2	4,103.11	1/2	3,853.53	1/2	3,591.94	1/2	3,308.90	1/2	2,951.12	1/2	2,593.34		
3/4		3/4		3/4		3/4	4,343.42	3/4	4,098.04	3/4	3,848.21	3/4	3,586.36	3/4	3,301.45	3/4	2,943.67	3/4	2,585.89		
2		2		2		2	4,338.04	2	4,092.96	2	3,842.88	2	3,580.79	2	3,293.99	2	2,936.21	2	2,578.44		
1/4		1/4		1/4		1/4	4,332.31	1/4	4,087.87	1/4	3,837.54	1/4	3,575.20	1/4	3,286.54	1/4	2,928.76	1/4	2,570.98		
1/2		1/2		1/2		1/2	4,326.58	1/2	4,082.78	1/2	3,832.19	1/2	3,569.60	1/2	3,279.08	1/2	2,921.31	1/2	2,563.53		
3/4		3/4		3/4		3/4	4,320.85	3/4	4,077.68	3/4	3,826.85	3/4	3,564.01	3/4	3,271.63	3/4	2,913.85	3/4	2,556.08		
3		3		3		3	4,315.12	3	4,072.59	3	3,821.50	3	3,558.42	3	3,264.18	3	2,906.40	3	2,548.62		
1/4		1/4		1/4		1/4	4,309.39	1/4	4,067.47	1/4	3,816.14	1/4	3,552.80	1/4	3,256.72	1/4	2,898.95	1/4	2,541.17		
1/2		1/2		1/2		1/2	4,303.66	1/2	4,062.36	1/2	3,810.77	1/2	3,547.18	1/2	3,249.27	1/2	2,891.49	1/2	2,533.71		
3/4		3/4		3/4		3/4	4,297.93	3/4	4,057.24	3/4	3,805.41	3/4	3,541.57	3/4	3,241.82	3/4	2,884.04	3/4	2,526.26		
4		4		4		4	4,292.21	4	4,052.12	4	3,800.04	4	3,535.95	4	3,234.36	4	2,876.58	4	2,518.81		
1/4		1/4		1/4		1/4	4,287.32	1/4	4,046.99	1/4	3,794.66	1/4	3,530.32	1/4	3,226.91	1/4	2,869.13	1/4	2,511.35		
1/2		1/2		1/2		1/2	4,282.43	1/2	4,041.85	1/2	3,789.27	1/2	3,524.68	1/2	3,219.45	1/2	2,861.68	1/2	2,503.90		
3/4		3/4		3/4		3/4	4,277.54	3/4	4,036.72	3/4	3,783.88	3/4	3,519.05	3/4	3,212.00	3/4	2,854.22	3/4	2,496.45		
5		5		5		5	4,272.65	5	4,031.58	5	3,778.49	5	3,513.41	5	3,204.55	5	2,846.77	5	2,488.99		
1/4		1/4		1/4		1/4	4,267.75	1/4	4,026.42	1/4	3,773.09	1/4	3,507.75	1/4	3,197.09	1/4	2,839.32	1/4	2,481.54		
1/2		1/2		1/2		1/2	4,262.84	1/2	4,021.26	1/2	3,767.68	1/2	3,502.09	1/2	3,189.64	1/2	2,831.86	1/2	2,474.08		
3/4		3/4		3/4		3/4	4,257.94	3/4	4,016.11	3/4	3,762.28	3/4	3,496.43	3/4	3,182.19	3/4	2,824.41	3/4	2,466.63		
6		6		6		6	4,253.03	6	4,010.95	6	3,756.87	6	3,490.78	6	3,174.73	6	2,816.95	6	2,459.18		
1/4		1/4		1/4		1/4	4,248.10	1/4	4,005.77	1/4	3,751.44	1/4	3,485.10	1/4	3,167.28	1/4	2,809.50	1/4	2,451.72		
1/2		1/2		1/2		1/2	4,243.17	1/2	4,000.59	1/2	3,746.01	1/2	3,479.42	1/2	3,159.82	1/2	2,802.05	1/2	2,444.27		
3/4		3/4		3/4		3/4	4,238.24	3/4	3,995.42	3/4	3,740.58	3/4	3,473.74	3/4	3,152.37	3/4	2,794.59	3/4	2,436.82		
7		7		7		7	4,233.31	7	3,990.24	7	3,735.15	7	3,468.07	7	3,144.92	7	2,787.14	7	2,429.36		
1/4		1/4		1/4		1/4	4,228.36	1/4	3,985.04	1/4	3,729.70	1/4	3,462.37	1/4	3,137.46	1/4	2,779.69	1/4	2,421.91		
1/2		1/2		1/2		1/2	4,223.41	1/2	3,979.84	1/2	3,724.25	1/2	3,456.67	1/2	3,130.01	1/2	2,772.23	1/2	2,414.45		
3/4		3/4		3/4		3/4	4,218.46	3/4	3,974.63	3/4	3,718.81	3/4	3,450.97	3/4	3,122.56	3/4	2,764.78	3/4	2,407.00		
8		8		8		8	4,213.51	8	3,969.43	8	3,713.36	8	3,445.26	8	3,115.10	8	2,757.33	8	2,399.55		
1/4		1/4		1/4		1/4	4,208.54	1/4	3,964.21	1/4	3,707.89	1/4	3,439.55	1/4	3,107.65	1/4	2,749.87	1/4	2,392.09		
1/2		1/2		1/2		1/2	4,203.57	1/2	3,958.99	1/2	3,702.41	1/2	3,433.83	1/2	3,100.20	1/2	2,742.42	1/2	2,384.64		
3/4		3/4		3/4		3/4	4,198.59	3/4	3,953.77	3/4	3,696.94	3/4	3,428.11	3/4	3,092.74	3/4	2,734.96	3/4	2,377.19		
9		9		9		9	4,193.62	9	3,948.56	9	3,691.47	9	3,422.39	9	3,085.29	9	2,727.51	9	2,369.73		
1/4		1/4		1/4		1/4	4,188.63	1/4	3,943.31	1/4	3,685.98	1/4	3,416.66	1/4	3,077.83	1/4	2,720.06	1/4	2,362.28		
1/2		1/2		1/2		1/2	4,183.64	1/2	3,938.07	1/2	3,680.49	1/2	3,410.93	1/2	3,070.38	1/2	2,712.60	1/2	2,354.83		
3/4		3/4		3/4		3/4	4,178.65	3/4	3,932.82	3/4	3,675.00	3/4	3,405.20	3/4	3,062.93	3/4	2,705.15	3/4	2,347.37		
10		10		10		10	4,173.66	10	3,927.58	10	3,669.51	10	3,399.47	10	3,055.47	10	2,697.70	10	2,339.92		
1/4		1/4		1/4		1/4	4,168.64	1/4	3,922.32	1/4	3,663.99	1/4	3,393.73	1/4	3,048.02	1/4	2,690.24	1/4	2,332.46		
1/2		1/2		1/2		1/2	4,163.63	1/2	3,917.06	1/2	3,658.48	1/2	3,388.00	1/2	3,040.57	1/2	2,682.79	1/2	2,325.01		
3/4		3/4		3/4		3/4	4,158.61	3/4	3,911.79	3/4	3,652.96	3/4	3,382.27	3/4	3,033.11	3/4	2,675.33	3/4	2,317.56		
11		11		11		11	4,394.90	11	4,153.59	11	3,906.53	11	3,647.45	11	3,025.66	11	2,667.88	11	2,310.10		
1/4		1/4		1/4		1/4	4,390.24	1/4	4,148.56	1/4	3,901.25	1/4	3,641.92	1/4	3,018.20	1/4	2,660.43	1/4	2,302.65		
1/2		1/2		1/2		1/2	4,385.58	1/2	4,143.53	1/2	3,895.96	1/2	3,636.38	1/2	3,010.75	1/2	2,652.97	1/2	2,295.20		
3/4		3/4		3/4		3/4	4,380.92	3/4	4,138.50	3/4	3,890.67	3/4	3,630.85	3/4	3,003.30	3/4	2,645.52	3/4	2,287.74		
12		12		12		12	4,376.26	12	4,133.46	12	3,885.39	12	3,625.32	12	2,995.84	12	2,638.07	12	2,280.29		

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
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BARGE "KIRBY 28190"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,272.83	0	1,915.06	0	1,557.28	0	1,199.50	0	842.02	0	484.34	0	126.57	0		0		0	
1/4	2,265.38	1/4	1,907.60	1/4	1,549.83	1/4	1,192.05	1/4	834.58	1/4	476.88	1/4	119.12	1/4	1/4	1/4		1/4	
1/2	2,257.93	1/2	1,900.15	1/2	1,542.37	1/2	1,184.59	1/2	827.14	1/2	469.43	1/2	111.66	1/2	1/2	1/2		1/2	
3/4	2,250.47	3/4	1,892.70	3/4	1,534.92	3/4	1,177.14	3/4	819.70	3/4	461.98	3/4	104.21	3/4	3/4	3/4		3/4	
1	2,243.02	1	1,885.24	1	1,527.46	1	1,169.69	1	812.25	1	454.52	1	97.07	1	1	1		1	
1/4	2,235.57	1/4	1,877.79	1/4	1,520.01	1/4	1,162.23	1/4	804.81	1/4	447.07	1/4	89.93	1/4	1/4	1/4		1/4	
1/2	2,228.11	1/2	1,870.33	1/2	1,512.56	1/2	1,154.78	1/2	797.37	1/2	439.61	1/2	82.79	1/2	1/2	1/2		1/2	
3/4	2,220.66	3/4	1,862.88	3/4	1,505.10	3/4	1,147.33	3/4	789.93	3/4	432.16	3/4	75.66	3/4	3/4	3/4		3/4	
2	2,213.20	2	1,855.43	2	1,497.65	2	1,139.87	2	782.48	2	424.71	2	69.46	2	2	2		2	
1/4	2,205.75	1/4	1,847.97	1/4	1,490.20	1/4	1,132.42	1/4	775.02	1/4	417.25	1/4	63.26	1/4	1/4	1/4		1/4	
1/2	2,198.30	1/2	1,840.52	1/2	1,482.74	1/2	1,124.96	1/2	767.57	1/2	409.80	1/2	57.06	1/2	1/2	1/2		1/2	
3/4	2,190.84	3/4	1,833.07	3/4	1,475.29	3/4	1,117.51	3/4	760.12	3/4	402.35	3/4	50.87	3/4	3/4	3/4		3/4	
3	2,183.39	3	1,825.61	3	1,467.83	3	1,110.06	3	752.66	3	394.89	3	45.92	3	3	3		3	
1/4	2,175.94	1/4	1,818.16	1/4	1,460.38	1/4	1,102.60	1/4	745.21	1/4	387.44	1/4	40.98	1/4	1/4	1/4		1/4	
1/2	2,168.48	1/2	1,810.71	1/2	1,452.93	1/2	1,095.15	1/2	737.75	1/2	379.99	1/2	36.04	1/2	1/2	1/2		1/2	
3/4	2,161.03	3/4	1,803.25	3/4	1,445.47	3/4	1,087.70	3/4	730.30	3/4	372.53	3/4	31.10	3/4	3/4	3/4		3/4	
4	2,153.58	4	1,795.80	4	1,438.02	4	1,080.24	4	722.85	4	365.08	4	27.43	4	4	4		4	
1/4	2,146.12	1/4	1,788.34	1/4	1,430.57	1/4	1,072.79	1/4	715.39	1/4	357.63	1/4	23.75	1/4	1/4	1/4		1/4	
1/2	2,138.67	1/2	1,780.89	1/2	1,423.11	1/2	1,065.34	1/2	707.94	1/2	350.17	1/2	20.07	1/2	1/2	1/2		1/2	
3/4	2,131.21	3/4	1,773.44	3/4	1,415.66	3/4	1,057.88	3/4	700.49	3/4	342.72	3/4	16.40	3/4	3/4	3/4		3/4	
5	2,123.76	5	1,765.98	5	1,408.21	5	1,050.43	5	693.03	5	335.27	5		5	5	5		5	
1/4	2,116.31	1/4	1,758.53	1/4	1,400.75	1/4	1,042.97	1/4	685.58	1/4	327.81	1/4		1/4	1/4	1/4		1/4	
1/2	2,108.85	1/2	1,751.08	1/2	1,393.30	1/2	1,035.52	1/2	678.13	1/2	320.36	1/2		1/2	1/2	1/2		1/2	
3/4	2,101.40	3/4	1,743.62	3/4	1,385.84	3/4	1,028.07	3/4	670.67	3/4	312.91	3/4		3/4	3/4	3/4		3/4	
6	2,093.95	6	1,736.17	6	1,378.39	6	1,020.62	6	663.22	6	305.45	6		6	6	6		6	
1/4	2,086.49	1/4	1,728.71	1/4	1,370.94	1/4	1,013.18	1/4	655.77	1/4	298.00	1/4		1/4	1/4	1/4		1/4	
1/2	2,079.04	1/2	1,721.26	1/2	1,363.48	1/2	1,005.74	1/2	648.31	1/2	290.54	1/2		1/2	1/2	1/2		1/2	
3/4	2,071.58	3/4	1,713.81	3/4	1,356.03	3/4	998.30	3/4	640.86	3/4	283.09	3/4		3/4	3/4	3/4		3/4	
7	2,064.13	7	1,706.35	7	1,348.58	7	990.86	7	633.41	7	275.64	7		7	7	7		7	
1/4	2,056.68	1/4	1,698.90	1/4	1,341.12	1/4	983.42	1/4	625.95	1/4	268.18	1/4		1/4	1/4	1/4		1/4	
1/2	2,049.22	1/2	1,691.45	1/2	1,333.67	1/2	975.97	1/2	618.50	1/2	260.73	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.77	3/4	1,683.99	3/4	1,326.21	3/4	968.53	3/4	611.05	3/4	253.28	3/4		3/4	3/4	3/4		3/4	
8	2,034.32	8	1,676.54	8	1,318.76	8	961.09	8	603.59	8	245.82	8		8	8	8		8	
1/4	2,026.86	1/4	1,669.08	1/4	1,311.31	1/4	953.65	1/4	596.14	1/4	238.37	1/4		1/4	1/4	1/4		1/4	
1/2	2,019.41	1/2	1,661.63	1/2	1,303.85	1/2	946.21	1/2	588.68	1/2	230.92	1/2		1/2	1/2	1/2		1/2	
3/4	2,011.96	3/4	1,654.18	3/4	1,296.40	3/4	938.77	3/4	581.23	3/4	223.46	3/4		3/4	3/4	3/4		3/4	
9	2,004.50	9	1,646.72	9	1,288.95	9	931.32	9	573.78	9	216.01	9		9	9	9		9	
1/4	1,997.05	1/4	1,639.27	1/4	1,281.49	1/4	923.88	1/4	566.32	1/4	208.56	1/4		1/4	1/4	1/4		1/4	
1/2	1,989.59	1/2	1,631.82	1/2	1,274.04	1/2	916.44	1/2	558.87	1/2	201.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,982.14	3/4	1,624.36	3/4	1,266.59	3/4	909.00	3/4	551.42	3/4	193.65	3/4		3/4	3/4	3/4		3/4	
10	1,974.69	10	1,616.91	10	1,259.13	10	901.56	10	543.96	10	186.20	10		10	10	10		10	
1/4	1,967.23	1/4	1,609.46	1/4	1,251.68	1/4	894.11	1/4	536.51	1/4	178.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,959.78	1/2	1,602.00	1/2	1,244.22	1/2	886.67	1/2	529.06	1/2	171.29	1/2		1/2	1/2	1/2		1/2	
3/4	1,952.33	3/4	1,594.55	3/4	1,236.77	3/4	879.23	3/4	521.60	3/4	163.84	3/4		3/4	3/4	3/4		3/4	
11	1,944.87	11	1,587.09	11	1,229.32	11	871.79	11	514.15	11	156.38	11		11	11	11		11	
1/4	1,937.42	1/4	1,579.64	1/4	1,221.86	1/4	864.35	1/4	506.70	1/4	148.93	1/4		1/4	1/4	1/4		1/4	
1/2	1,929.96	1/2	1,572.19	1/2	1,214.41	1/2	856.91	1/2	499.24	1/2	141.47	1/2		1/2	1/2	1/2		1/2	
3/4	1,922.51	3/4	1,564.73	3/4	1,206.96	3/4	849.46	3/4	491.79	3/4	134.02	3/4		3/4	3/4	3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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