



BARGE "KIRBY 28193"

ULLAGE TRIM TABLE

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

(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"

May 14, 2012

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28193"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,936.82	0	4,601.28	0	4,261.35	0	3,904.94	0	3,532.87	0	3,156.61	0	2,778.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,930.14	1/4	4,594.36	1/4	4,254.09	1/4	3,897.33	1/4	3,525.04	1/4	3,148.74	1/4	2,771.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,923.47	1/2	4,587.45	1/2	4,246.83	1/2	3,889.72	1/2	3,517.20	1/2	3,140.87	1/2	2,763.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,916.80	3/4	4,580.53	3/4	4,239.57	3/4	3,882.11	3/4	3,509.37	3/4	3,133.00	3/4	2,755.31		
1		1		1		1	4,909.20	1	4,573.59	1	4,232.28	1	3,874.48	1	3,501.54	1	3,125.13	1	2,747.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,901.59	1/4	4,566.64	1/4	4,224.99	1/4	3,866.85	1/4	3,493.70	1/4	3,117.26	1/4	2,739.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,893.99	1/2	4,559.70	1/2	4,217.71	1/2	3,859.22	1/2	3,485.87	1/2	3,109.40	1/2	2,731.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.38	3/4	4,552.75	3/4	4,210.42	3/4	3,851.59	3/4	3,478.03	3/4	3,101.53	3/4	2,723.83		
2		2		2		2	4,878.55	2	4,545.78	2	4,203.10	2	3,843.93	2	3,470.20	2	3,093.66	2	2,715.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.72	1/4	4,538.81	1/4	4,195.79	1/4	3,836.27	1/4	3,462.37	1/4	3,085.79	1/4	2,708.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.88	1/2	4,531.84	1/2	4,188.47	1/2	3,828.61	1/2	3,454.53	1/2	3,077.92	1/2	2,700.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,855.05	3/4	4,524.86	3/4	4,181.15	3/4	3,820.95	3/4	3,446.70	3/4	3,070.05	3/4	2,692.36		
3		3		3		3	4,847.65	3	4,517.86	3	4,173.81	3	3,813.26	3	3,438.87	3	3,062.18	3	2,684.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.25	1/4	4,510.86	1/4	4,166.46	1/4	3,805.57	1/4	3,431.03	1/4	3,054.31	1/4	2,676.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,832.85	1/2	4,503.86	1/2	4,159.12	1/2	3,797.88	1/2	3,423.20	1/2	3,046.45	1/2	2,668.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,825.45	3/4	4,496.85	3/4	4,151.77	3/4	3,790.19	3/4	3,415.36	3/4	3,038.58	3/4	2,660.88		
4		4		4		4	4,818.76	4	4,489.82	4	4,144.40	4	3,782.47	4	3,407.53	4	3,030.71	4	2,653.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,812.07	1/4	4,482.79	1/4	4,137.02	1/4	3,774.76	1/4	3,399.70	1/4	3,022.84	1/4	2,645.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,805.38	1/2	4,475.76	1/2	4,129.65	1/2	3,767.04	1/2	3,391.86	1/2	3,014.97	1/2	2,637.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,798.69	3/4	4,468.73	3/4	4,122.27	3/4	3,759.32	3/4	3,384.03	3/4	3,007.10	3/4	2,629.41		
5		5		5		5	4,791.98	5	4,461.67	5	4,114.87	5	3,751.58	5	3,376.19	5	2,999.23	5	2,621.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.26	1/4	4,454.61	1/4	4,107.47	1/4	3,743.83	1/4	3,368.36	1/4	2,991.37	1/4	2,613.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.54	1/2	4,447.55	1/2	4,100.06	1/2	3,736.08	1/2	3,360.53	1/2	2,983.50	1/2	2,605.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,771.83	3/4	4,440.49	3/4	4,092.66	3/4	3,728.33	3/4	3,352.69	3/4	2,975.63	3/4	2,597.94		
6		6		6		6	4,765.08	6	4,433.40	6	4,085.23	6	3,720.56	6	3,344.86	6	2,967.76	6	2,590.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,758.33	1/4	4,426.31	1/4	4,077.80	1/4	3,712.78	1/4	3,337.03	1/4	2,959.89	1/4	2,582.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,751.59	1/2	4,419.23	1/2	4,070.36	1/2	3,705.01	1/2	3,329.19	1/2	2,952.02	1/2	2,574.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,744.84	3/4	4,412.14	3/4	4,062.93	3/4	3,697.23	3/4	3,321.36	3/4	2,944.15	3/4	2,566.46		
7		7		7		7	4,738.07	7	4,405.02	7	4,055.47	7	3,689.43	7	3,313.52	7	2,936.29	7	2,558.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,731.29	1/4	4,397.90	1/4	4,048.01	1/4	3,681.62	1/4	3,305.69	1/4	2,928.42	1/4	2,550.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,724.52	1/2	4,390.78	1/2	4,040.55	1/2	3,673.82	1/2	3,297.86	1/2	2,920.55	1/2	2,542.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,717.74	3/4	4,383.66	3/4	4,033.09	3/4	3,666.01	3/4	3,290.02	3/4	2,912.68	3/4	2,534.99		
8		8		8		8	4,710.94	8	4,376.52	8	4,025.60	8	3,658.19	8	3,282.19	8	2,904.81	8	2,527.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,704.13	1/4	4,369.37	1/4	4,018.11	1/4	3,650.36	1/4	3,274.36	1/4	2,896.94	1/4	2,519.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,697.33	1/2	4,362.22	1/2	4,010.62	1/2	3,642.54	1/2	3,266.52	1/2	2,889.07	1/2	2,511.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,690.52	3/4	4,355.07	3/4	4,003.13	3/4	3,634.71	3/4	3,258.69	3/4	2,881.21	3/4	2,503.51		
9		9		9		9	4,683.69	9	4,347.90	9	3,995.61	9	3,626.88	9	3,250.85	9	2,873.34	9	2,495.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,676.86	1/4	4,340.72	1/4	3,988.09	1/4	3,619.04	1/4	3,243.02	1/4	2,865.47	1/4	2,487.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,670.03	1/2	4,333.54	1/2	3,980.57	1/2	3,611.21	1/2	3,235.19	1/2	2,857.60	1/2	2,479.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,663.19	3/4	4,326.37	3/4	3,973.05	3/4	3,603.37	3/4	3,227.35	3/4	2,849.73	3/4	2,472.04		
10		10		10		10	4,656.33	10	4,319.16	10	3,965.50	10	3,595.54	10	3,219.50	10	2,841.86	10	2,464.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,649.47	1/4	4,311.96	1/4	3,957.95	1/4	3,587.71	1/4	3,211.65	1/4	2,833.99	1/4	2,456.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,642.60	1/2	4,304.75	1/2	3,950.40	1/2	3,579.87	1/2	3,203.80	1/2	2,826.13	1/2	2,448.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,635.74	3/4	4,297.55	3/4	3,942.85	3/4	3,572.04	3/4	3,195.95	3/4	2,818.26	3/4	2,440.56		
11		11		11		11	4,628.85	11	4,290.31	11	3,935.28	11	3,564.21	11	3,188.08	11	2,810.39	11	2,432.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.24	1/4	4,621.97	1/4	4,283.08	1/4	3,927.70	1/4	3,556.37	1/4	3,180.21	1/4	2,802.52	1/4	2,424.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,948.86	1/2	4,615.08	1/2	4,275.84	1/2	3,920.12	1/2	3,548.54	1/2	3,172.34	1/2	2,794.65	1/2	2,416.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,943.49	3/4	4,608.19	3/4	4,268.61	3/4	3,912.54	3/4	3,540.70	3/4	3,164.48	3/4	2,786.78	3/4	2,409.09

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 28193"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,401.22	0	2,023.53	0	1,645.84	0	1,269.63	0	892.60	0	515.02	0	169.53	0		0		0	
1/4	2,393.35	1/4	2,015.66	1/4	1,637.97	1/4	1,261.81	1/4	884.74	1/4	507.21	1/4	163.02	1/4	1/4	1/4		1/4	1/4
1/2	2,385.48	1/2	2,007.79	1/2	1,630.10	1/2	1,253.99	1/2	876.87	1/2	499.40	1/2	156.50	1/2	1/2	1/2		1/2	1/2
3/4	2,377.62	3/4	1,999.92	3/4	1,622.23	3/4	1,246.17	3/4	869.00	3/4	491.59	3/4	149.99	3/4	3/4	3/4		3/4	3/4
1	2,369.75	1	1,992.05	1	1,614.36	1	1,238.35	1	861.13	1	483.87	1	143.59	1	1	1		1	1
1/4	2,361.88	1/4	1,984.19	1/4	1,606.49	1/4	1,230.53	1/4	853.26	1/4	476.15	1/4	137.19	1/4	1/4	1/4		1/4	1/4
1/2	2,354.01	1/2	1,976.32	1/2	1,598.62	1/2	1,222.71	1/2	845.39	1/2	468.43	1/2	130.80	1/2	1/2	1/2		1/2	1/2
3/4	2,346.14	3/4	1,968.45	3/4	1,590.76	3/4	1,214.89	3/4	837.53	3/4	460.72	3/4	124.40	3/4	3/4	3/4		3/4	3/4
2	2,338.27	2	1,960.58	2	1,582.89	2	1,207.07	2	829.66	2	453.11	2	118.12	2	2	2		2	2
1/4	2,330.40	1/4	1,952.71	1/4	1,575.02	1/4	1,199.25	1/4	821.79	1/4	445.50	1/4	111.85	1/4	1/4	1/4		1/4	1/4
1/2	2,322.54	1/2	1,944.84	1/2	1,567.15	1/2	1,191.44	1/2	813.92	1/2	437.89	1/2	105.57	1/2	1/2	1/2		1/2	1/2
3/4	2,314.67	3/4	1,936.97	3/4	1,559.28	3/4	1,183.62	3/4	806.05	3/4	430.28	3/4	99.29	3/4	3/4	3/4		3/4	3/4
3	2,306.80	3	1,929.11	3	1,551.42	3	1,175.78	3	798.18	3	422.78	3	93.15	3	3	3		3	3
1/4	2,298.93	1/4	1,921.24	1/4	1,543.57	1/4	1,167.94	1/4	790.31	1/4	415.28	1/4	87.00	1/4	1/4	1/4		1/4	1/4
1/2	2,291.06	1/2	1,913.37	1/2	1,535.71	1/2	1,160.10	1/2	782.45	1/2	407.78	1/2	80.85	1/2	1/2	1/2		1/2	1/2
3/4	2,283.19	3/4	1,905.50	3/4	1,527.85	3/4	1,152.26	3/4	774.58	3/4	400.28	3/4	74.70	3/4	3/4	3/4		3/4	3/4
4	2,275.32	4	1,897.63	4	1,520.01	4	1,144.39	4	766.71	4	392.89	4	68.70	4	4	4		4	4
1/4	2,267.45	1/4	1,889.76	1/4	1,512.17	1/4	1,136.52	1/4	758.84	1/4	385.50	1/4	62.69	1/4	1/4	1/4		1/4	1/4
1/2	2,259.59	1/2	1,881.89	1/2	1,504.33	1/2	1,128.66	1/2	750.97	1/2	378.11	1/2	56.68	1/2	1/2	1/2		1/2	1/2
3/4	2,251.72	3/4	1,874.02	3/4	1,496.49	3/4	1,120.79	3/4	743.10	3/4	370.72	3/4	50.68	3/4	3/4	3/4		3/4	3/4
5	2,243.85	5	1,866.16	5	1,488.66	5	1,112.92	5	735.24	5	363.44	5	45.26	5	5	5		5	5
1/4	2,235.98	1/4	1,858.29	1/4	1,480.82	1/4	1,105.05	1/4	727.37	1/4	356.16	1/4	39.85	1/4	1/4	1/4		1/4	1/4
1/2	2,228.11	1/2	1,850.42	1/2	1,472.99	1/2	1,097.18	1/2	719.50	1/2	348.88	1/2	34.44	1/2	1/2	1/2		1/2	1/2
3/4	2,220.24	3/4	1,842.55	3/4	1,465.16	3/4	1,089.31	3/4	711.63	3/4	341.60	3/4	29.02	3/4	3/4	3/4		3/4	3/4
6	2,212.37	6	1,834.68	6	1,457.33	6	1,081.45	6	703.76	6	334.43	6	25.06	6	6	6		6	6
1/4	2,204.51	1/4	1,826.81	1/4	1,449.50	1/4	1,073.58	1/4	695.89	1/4	327.26	1/4	21.10	1/4	1/4	1/4		1/4	1/4
1/2	2,196.64	1/2	1,818.94	1/2	1,441.68	1/2	1,065.71	1/2	688.03	1/2	320.08	1/2	17.14	1/2	1/2	1/2		1/2	1/2
3/4	2,188.77	3/4	1,811.08	3/4	1,433.85	3/4	1,057.84	3/4	680.16	3/4	312.91	3/4	13.18	3/4	3/4	3/4		3/4	3/4
7	2,180.90	7	1,803.21	7	1,426.03	7	1,049.97	7	672.29	7	305.85	7		7	7	7		7	7
1/4	2,173.03	1/4	1,795.34	1/4	1,418.20	1/4	1,042.10	1/4	664.42	1/4	298.79	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,165.16	1/2	1,787.47	1/2	1,410.38	1/2	1,034.24	1/2	656.55	1/2	291.73	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,157.29	3/4	1,779.60	3/4	1,402.56	3/4	1,026.37	3/4	648.68	3/4	284.66	3/4		3/4	3/4	3/4		3/4	3/4
8	2,149.43	8	1,771.73	8	1,394.74	8	1,018.50	8	640.82	8	277.71	8		8	8	8		8	8
1/4	2,141.56	1/4	1,763.86	1/4	1,386.92	1/4	1,010.63	1/4	632.95	1/4	270.76	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,133.69	1/2	1,756.00	1/2	1,379.10	1/2	1,002.76	1/2	625.08	1/2	263.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,125.82	3/4	1,748.13	3/4	1,371.28	3/4	994.89	3/4	617.21	3/4	256.85	3/4		3/4	3/4	3/4		3/4	3/4
9	2,117.95	9	1,740.26	9	1,363.46	9	987.02	9	609.34	9	250.01	9		9	9	9		9	9
1/4	2,110.08	1/4	1,732.39	1/4	1,355.64	1/4	979.16	1/4	601.47	1/4	243.16	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,102.21	1/2	1,724.52	1/2	1,347.82	1/2	971.29	1/2	593.60	1/2	236.32	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,094.35	3/4	1,716.65	3/4	1,340.00	3/4	963.42	3/4	585.74	3/4	229.48	3/4		3/4	3/4	3/4		3/4	3/4
10	2,086.48	10	1,708.78	10	1,332.18	10	955.55	10	577.87	10	222.74	10		10	10	10		10	10
1/4	2,078.61	1/4	1,700.92	1/4	1,324.36	1/4	947.68	1/4	570.00	1/4	216.01	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,070.74	1/2	1,693.05	1/2	1,316.54	1/2	939.81	1/2	562.13	1/2	209.27	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,062.87	3/4	1,685.18	3/4	1,308.72	3/4	931.95	3/4	554.26	3/4	202.54	3/4		3/4	3/4	3/4		3/4	3/4
11	2,055.00	11	1,677.31	11	1,300.91	11	924.08	11	546.40	11	195.92	11		11	11	11		11	11
1/4	2,047.13	1/4	1,669.44	1/4	1,293.09	1/4	916.21	1/4	538.55	1/4	189.29	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,039.27	1/2	1,661.57	1/2	1,285.27	1/2	908.34	1/2	530.69	1/2	182.67	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,031.40	3/4	1,653.70	3/4	1,277.45	3/4	900.47	3/4	522.83	3/4	176.04	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 28193"

1 STBD 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	IN	0
1/4		1/4		1/4		1/4	4,950.64	1/4	4,616.86	1/4	4,277.62	1/4	3,921.90	1/4	3,550.31	1/4	3,174.12	1/4	2,796.42		
1/2		1/2		1/2		1/2	4,945.26	1/2	4,609.97	1/2	4,270.38	1/2	3,914.32	1/2	3,542.48	1/2	3,166.25	1/2	2,788.55		
3/4		3/4		3/4		3/4	4,938.59	3/4	4,603.05	3/4	4,263.12	3/4	3,906.71	3/4	3,534.65	3/4	3,158.38	3/4	2,780.69		
1	1	1	1	1	1	1	4,931.92	1	4,596.14	1	4,255.86	1	3,899.10	1	3,526.81	1	3,150.51	1	2,772.82		
1/4		1/4		1/4		1/4	4,925.25	1/4	4,589.22	1/4	4,248.60	1/4	3,891.50	1/4	3,518.98	1/4	3,142.64	1/4	2,764.95		
1/2		1/2		1/2		1/2	4,918.58	1/2	4,582.31	1/2	4,241.34	1/2	3,883.89	1/2	3,511.14	1/2	3,134.77	1/2	2,757.08		
3/4		3/4		3/4		3/4	4,910.97	3/4	4,575.36	3/4	4,234.06	3/4	3,876.26	3/4	3,503.31	3/4	3,126.90	3/4	2,749.21		
2	2	2	2	2	2	2	4,903.37	2	4,568.42	2	4,226.77	2	3,868.63	2	3,495.48	2	3,119.03	2	2,741.34		
1/4		1/4		1/4		1/4	4,895.76	1/4	4,561.48	1/4	4,219.48	1/4	3,860.99	1/4	3,487.64	1/4	3,111.17	1/4	2,733.47		
1/2		1/2		1/2		1/2	4,888.16	1/2	4,554.53	1/2	4,212.20	1/2	3,853.36	1/2	3,479.81	1/2	3,103.30	1/2	2,725.60		
3/4		3/4		3/4		3/4	4,880.33	3/4	4,547.56	3/4	4,204.88	3/4	3,845.70	3/4	3,471.98	3/4	3,095.43	3/4	2,717.74		
3	3	3	3	3	3	3	4,872.49	3	4,540.58	3	4,197.56	3	3,838.04	3	3,464.14	3	3,087.56	3	2,709.87		
1/4		1/4		1/4		1/4	4,864.66	1/4	4,533.61	1/4	4,190.24	1/4	3,830.38	1/4	3,456.31	1/4	3,079.69	1/4	2,702.00		
1/2		1/2		1/2		1/2	4,856.82	1/2	4,526.64	1/2	4,182.93	1/2	3,822.72	1/2	3,448.47	1/2	3,071.82	1/2	2,694.13		
3/4		3/4		3/4		3/4	4,849.42	3/4	4,519.64	3/4	4,175.58	3/4	3,815.04	3/4	3,440.64	3/4	3,063.95	3/4	2,686.26		
4	4	4	4	4	4	4	4,842.02	4	4,512.63	4	4,168.24	4	3,807.35	4	3,432.81	4	3,056.09	4	2,678.39		
1/4		1/4		1/4		1/4	4,834.62	1/4	4,505.63	1/4	4,160.89	1/4	3,799.66	1/4	3,424.97	1/4	3,048.22	1/4	2,670.52		
1/2		1/2		1/2		1/2	4,827.22	1/2	4,498.63	1/2	4,153.55	1/2	3,791.97	1/2	3,417.14	1/2	3,040.35	1/2	2,662.66		
3/4		3/4		3/4		3/4	4,820.53	3/4	4,491.60	3/4	4,146.17	3/4	3,784.25	3/4	3,409.31	3/4	3,032.48	3/4	2,654.79		
5	5	5	5	5	5	5	4,813.85	5	4,484.57	5	4,138.80	5	3,776.53	5	3,401.47	5	3,024.61	5	2,646.92		
1/4		1/4		1/4		1/4	4,807.16	1/4	4,477.54	1/4	4,131.42	1/4	3,768.82	1/4	3,393.64	1/4	3,016.74	1/4	2,639.05		
1/2		1/2		1/2		1/2	4,800.47	1/2	4,470.51	1/2	4,124.05	1/2	3,761.10	1/2	3,385.80	1/2	3,008.87	1/2	2,631.18		
3/4		3/4		3/4		3/4	4,793.75	3/4	4,463.45	3/4	4,116.65	3/4	3,753.35	3/4	3,377.97	3/4	3,001.01	3/4	2,623.31		
6	6	6	6	6	6	6	4,787.04	6	4,456.39	6	4,109.24	6	3,745.60	6	3,370.14	6	2,993.14	6	2,615.44		
1/4		1/4		1/4		1/4	4,780.32	1/4	4,449.33	1/4	4,101.84	1/4	3,737.86	1/4	3,362.30	1/4	2,985.27	1/4	2,607.58		
1/2		1/2		1/2		1/2	4,773.60	1/2	4,442.27	1/2	4,094.44	1/2	3,730.11	1/2	3,354.47	1/2	2,977.40	1/2	2,599.71		
3/4		3/4		3/4		3/4	4,766.86	3/4	4,435.18	3/4	4,087.00	3/4	3,722.33	3/4	3,346.64	3/4	2,969.53	3/4	2,591.84		
7	7	7	7	7	7	7	4,760.11	7	4,428.09	7	4,079.57	7	3,714.56	7	3,338.80	7	2,961.66	7	2,583.97		
1/4		1/4		1/4		1/4	4,753.36	1/4	4,421.00	1/4	4,072.14	1/4	3,706.78	1/4	3,330.97	1/4	2,953.79	1/4	2,576.10		
1/2		1/2		1/2		1/2	4,746.62	1/2	4,413.91	1/2	4,064.71	1/2	3,699.01	1/2	3,323.13	1/2	2,945.93	1/2	2,568.23		
3/4		3/4		3/4		3/4	4,739.84	3/4	4,406.79	3/4	4,057.25	3/4	3,691.20	3/4	3,315.30	3/4	2,938.06	3/4	2,560.36		
8	8	8	8	8	8	8	4,733.07	8	4,399.67	8	4,049.79	8	3,683.40	8	3,307.47	8	2,930.19	8	2,552.50		
1/4		1/4		1/4		1/4	4,726.29	1/4	4,392.56	1/4	4,042.32	1/4	3,675.59	1/4	3,299.63	1/4	2,922.32	1/4	2,544.63		
1/2		1/2		1/2		1/2	4,719.52	1/2	4,385.44	1/2	4,034.86	1/2	3,667.79	1/2	3,291.80	1/2	2,914.45	1/2	2,536.76		
3/4		3/4		3/4		3/4	4,712.71	3/4	4,378.29	3/4	4,027.37	3/4	3,659.96	3/4	3,283.96	3/4	2,906.58	3/4	2,528.89		
9	9	9	9	9	9	9	4,705.91	9	4,371.14	9	4,019.88	9	3,652.14	9	3,276.13	9	2,898.71	9	2,521.02		
1/4		1/4		1/4		1/4	4,699.10	1/4	4,364.00	1/4	4,012.39	1/4	3,644.31	1/4	3,268.30	1/4	2,890.85	1/4	2,513.15		
1/2		1/2		1/2		1/2	4,692.30	1/2	4,356.85	1/2	4,004.90	1/2	3,636.49	1/2	3,260.46	1/2	2,882.98	1/2	2,505.28		
3/4		3/4		3/4		3/4	4,685.47	3/4	4,349.67	3/4	3,997.38	3/4	3,628.65	3/4	3,252.63	3/4	2,875.11	3/4	2,497.42		
10	10	10	10	10	10	10	4,678.63	10	4,342.50	10	3,989.86	10	3,620.82	10	3,244.80	10	2,867.24	10	2,489.55		
1/4		1/4		1/4		1/4	4,671.80	1/4	4,335.32	1/4	3,982.34	1/4	3,612.98	1/4	3,236.96	1/4	2,859.37	1/4	2,481.68		
1/2		1/2		1/2		1/2	4,664.97	1/2	4,328.14	1/2	3,974.82	1/2	3,605.15	1/2	3,229.13	1/2	2,851.50	1/2	2,473.81		
3/4		3/4		3/4		3/4	4,658.11	3/4	4,320.94	3/4	3,967.28	3/4	3,597.32	3/4	3,221.28	3/4	2,843.63	3/4	2,465.94		
11	11	11	11	11	11	11	4,651.24	11	4,313.73	11	3,959.73	11	3,589.48	11	3,213.42	11	2,835.77	11	2,458.07		
1/4		1/4		1/4		1/4	4,644.38	1/4	4,306.53	1/4	3,952.18	1/4	3,581.65	1/4	3,205.57	1/4	2,827.90	1/4	2,450.20		
1/2		1/2		1/2		1/2	4,637.52	1/2	4,299.32	1/2	3,944.63	1/2	3,573.82	1/2	3,197.72	1/2	2,820.03	1/2	2,442.34		
3/4		3/4		3/4		3/4	4,630.63	3/4	4,292.09	3/4	3,937.05	3/4	3,565.98	3/4	3,189.85	3/4	2,812.16	3/4	2,434.47		

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28193"

1 STBD 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,426.60	0	2,048.91	0	1,671.21	0	1,293.52	0	916.11	0	538.55	0	189.29	0		0		0	
1/4	2,418.73	1/4	2,041.04	1/4	1,663.34	1/4	1,285.65	1/4	908.25	1/4	530.69	1/4	182.67	1/4		1/4		1/4	
1/2	2,410.86	1/2	2,033.17	1/2	1,655.48	1/2	1,277.78	1/2	900.40	1/2	522.83	1/2	176.04	1/2		1/2		1/2	
3/4	2,402.99	3/4	2,025.30	3/4	1,647.61	3/4	1,269.91	3/4	892.54	3/4	515.02	3/4	169.53	3/4		3/4		3/4	
1	2,395.12	1	2,017.43	1	1,639.74	1	1,262.05	1	884.68	1	507.21	1	163.02	1		1		1	
1/4	2,387.26	1/4	2,009.56	1/4	1,631.87	1/4	1,254.18	1/4	876.83	1/4	499.40	1/4	156.50	1/4		1/4		1/4	
1/2	2,379.39	1/2	2,001.69	1/2	1,624.00	1/2	1,246.31	1/2	868.97	1/2	491.59	1/2	149.99	1/2		1/2		1/2	
3/4	2,371.52	3/4	1,993.83	3/4	1,616.13	3/4	1,238.44	3/4	861.11	3/4	483.87	3/4	143.59	3/4		3/4		3/4	
2	2,363.65	2	1,985.96	2	1,608.26	2	1,230.57	2	853.25	2	476.15	2	137.19	2		2		2	
1/4	2,355.78	1/4	1,978.09	1/4	1,600.40	1/4	1,222.70	1/4	845.39	1/4	468.43	1/4	130.80	1/4		1/4		1/4	
1/2	2,347.91	1/2	1,970.22	1/2	1,592.53	1/2	1,214.83	1/2	837.53	1/2	460.72	1/2	124.40	1/2		1/2		1/2	
3/4	2,340.04	3/4	1,962.35	3/4	1,584.66	3/4	1,206.97	3/4	829.66	3/4	453.11	3/4	118.12	3/4		3/4		3/4	
3	2,332.17	3	1,954.48	3	1,576.79	3	1,199.10	3	821.79	3	445.50	3	111.85	3		3		3	
1/4	2,324.31	1/4	1,946.61	1/4	1,568.92	1/4	1,191.23	1/4	813.92	1/4	437.89	1/4	105.57	1/4		1/4		1/4	
1/2	2,316.44	1/2	1,938.74	1/2	1,561.05	1/2	1,183.36	1/2	806.05	1/2	430.28	1/2	99.29	1/2		1/2		1/2	
3/4	2,308.57	3/4	1,930.88	3/4	1,553.18	3/4	1,175.49	3/4	798.18	3/4	422.78	3/4	93.15	3/4		3/4		3/4	
4	2,300.70	4	1,923.01	4	1,545.31	4	1,167.62	4	790.31	4	415.28	4	87.00	4		4		4	
1/4	2,292.83	1/4	1,915.14	1/4	1,537.45	1/4	1,159.75	1/4	782.45	1/4	407.78	1/4	80.85	1/4		1/4		1/4	
1/2	2,284.96	1/2	1,907.27	1/2	1,529.58	1/2	1,151.88	1/2	774.58	1/2	400.28	1/2	74.70	1/2		1/2		1/2	
3/4	2,277.09	3/4	1,899.40	3/4	1,521.71	3/4	1,144.02	3/4	766.71	3/4	392.89	3/4	68.70	3/4		3/4		3/4	
5	2,269.23	5	1,891.53	5	1,513.84	5	1,136.15	5	758.84	5	385.50	5	62.69	5		5		5	
1/4	2,261.36	1/4	1,883.66	1/4	1,505.97	1/4	1,128.28	1/4	750.97	1/4	378.11	1/4	56.68	1/4		1/4		1/4	
1/2	2,253.49	1/2	1,875.80	1/2	1,498.10	1/2	1,120.41	1/2	743.10	1/2	370.72	1/2	50.68	1/2		1/2		1/2	
3/4	2,245.62	3/4	1,867.93	3/4	1,490.23	3/4	1,112.55	3/4	735.24	3/4	363.44	3/4	45.26	3/4		3/4		3/4	
6	2,237.75	6	1,860.06	6	1,482.37	6	1,104.68	6	727.37	6	356.16	6	39.85	6		6		6	
1/4	2,229.88	1/4	1,852.19	1/4	1,474.50	1/4	1,096.82	1/4	719.50	1/4	348.88	1/4	34.44	1/4		1/4		1/4	
1/2	2,222.01	1/2	1,844.32	1/2	1,466.63	1/2	1,088.96	1/2	711.63	1/2	341.60	1/2	29.02	1/2		1/2		1/2	
3/4	2,214.15	3/4	1,836.45	3/4	1,458.76	3/4	1,081.10	3/4	703.76	3/4	334.43	3/4	25.06	3/4		3/4		3/4	
7	2,206.28	7	1,828.58	7	1,450.89	7	1,073.24	7	695.89	7	327.26	7	21.10	7		7		7	
1/4	2,198.41	1/4	1,820.72	1/4	1,443.02	1/4	1,065.39	1/4	688.03	1/4	320.08	1/4	17.14	1/4		1/4		1/4	
1/2	2,190.54	1/2	1,812.85	1/2	1,435.15	1/2	1,057.53	1/2	680.16	1/2	312.91	1/2	13.18	1/2		1/2		1/2	
3/4	2,182.67	3/4	1,804.98	3/4	1,427.29	3/4	1,049.67	3/4	672.29	3/4	305.85	3/4		3/4		3/4		3/4	
8	2,174.80	8	1,797.11	8	1,419.42	8	1,041.82	8	664.42	8	298.79	8		8		8		8	
1/4	2,166.93	1/4	1,789.24	1/4	1,411.55	1/4	1,033.96	1/4	656.55	1/4	291.73	1/4		1/4		1/4		1/4	
1/2	2,159.07	1/2	1,781.37	1/2	1,403.68	1/2	1,026.10	1/2	648.68	1/2	284.66	1/2		1/2		1/2		1/2	
3/4	2,151.20	3/4	1,773.50	3/4	1,395.81	3/4	1,018.25	3/4	640.82	3/4	277.71	3/4		3/4		3/4		3/4	
9	2,143.33	9	1,765.64	9	1,387.94	9	1,010.39	9	632.95	9	270.76	9		9		9		9	
1/4	2,135.46	1/4	1,757.77	1/4	1,380.07	1/4	1,002.53	1/4	625.08	1/4	263.81	1/4		1/4		1/4		1/4	
1/2	2,127.59	1/2	1,749.90	1/2	1,372.21	1/2	994.68	1/2	617.21	1/2	256.85	1/2		1/2		1/2		1/2	
3/4	2,119.72	3/4	1,742.03	3/4	1,364.34	3/4	986.82	3/4	609.34	3/4	250.01	3/4		3/4		3/4		3/4	
10	2,111.85	10	1,734.16	10	1,356.47	10	978.96	10	601.47	10	243.16	10		10		10		10	
1/4	2,103.99	1/4	1,726.29	1/4	1,348.60	1/4	971.11	1/4	593.60	1/4	236.32	1/4		1/4		1/4		1/4	
1/2	2,096.12	1/2	1,718.42	1/2	1,340.73	1/2	963.25	1/2	585.74	1/2	229.48	1/2		1/2		1/2		1/2	
3/4	2,088.25	3/4	1,710.56	3/4	1,332.86	3/4	955.39	3/4	577.87	3/4	222.74	3/4		3/4		3/4		3/4	
11	2,080.38	11	1,702.69	11	1,324.99	11	947.54	11	570.00	11	216.01	11		11		11		11	
1/4	2,072.51	1/4	1,694.82	1/4	1,317.13	1/4	939.68	1/4	562.13	1/4	209.27	1/4		1/4		1/4		1/4	
1/2	2,064.64	1/2	1,686.95	1/2	1,309.26	1/2	931.82	1/2	554.26	1/2	202.54	1/2		1/2		1/2		1/2	
3/4	2,056.77	3/4	1,679.08	3/4	1,301.39	3/4	923.97	3/4	546.40	3/4	195.92	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 28193"

2 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		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,758.21	0	4,438.08	0	4,113.82	0	3,774.43	0	3,420.56	0	3,062.65	0	2,703.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,751.86	1/4	4,431.47	1/4	4,106.89	1/4	3,767.18	1/4	3,413.11	1/4	3,055.17	1/4	2,695.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,745.52	1/2	4,424.86	1/2	4,099.97	1/2	3,759.94	1/2	3,405.65	1/2	3,047.68	1/2	2,688.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,739.17	3/4	4,418.26	3/4	4,093.04	3/4	3,752.69	3/4	3,398.20	3/4	3,040.20	3/4	2,680.94		
1	1	1	1	1	1	1	4,732.83	1	4,411.65	1	4,086.12	1	3,745.45	1	3,390.75	1	3,032.71	1	2,673.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,725.59	1/4	4,405.01	1/4	4,079.17	1/4	3,738.18	1/4	3,383.30	1/4	3,025.23	1/4	2,665.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.36	1/2	4,398.37	1/2	4,072.22	1/2	3,730.92	1/2	3,375.84	1/2	3,017.74	1/2	2,658.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,711.13	3/4	4,391.74	3/4	4,065.27	3/4	3,723.65	3/4	3,368.39	3/4	3,010.26	3/4	2,651.00		
2	2	2	2	2	2	2	4,703.90	2	4,385.10	2	4,058.32	2	3,716.38	2	3,360.94	2	3,002.78	2	2,643.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,696.45	1/4	4,378.44	1/4	4,051.34	1/4	3,709.09	1/4	3,353.49	1/4	2,995.29	1/4	2,636.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,688.99	1/2	4,371.78	1/2	4,044.36	1/2	3,701.80	1/2	3,346.03	1/2	2,987.81	1/2	2,628.55		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,681.54	3/4	4,365.12	3/4	4,037.38	3/4	3,694.51	3/4	3,338.58	3/4	2,980.32	3/4	2,621.07		
3	3	3	3	3	3	3	4,674.09	3	4,358.46	3	4,030.40	3	3,687.21	3	3,331.13	3	2,972.84	3	2,613.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.03	1/4	4,351.77	1/4	4,023.40	1/4	3,679.89	1/4	3,323.68	1/4	2,965.35	1/4	2,606.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,659.98	1/2	4,345.08	1/2	4,016.40	1/2	3,672.57	1/2	3,316.23	1/2	2,957.87	1/2	2,598.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.92	3/4	4,338.39	3/4	4,009.39	3/4	3,665.25	3/4	3,308.77	3/4	2,950.38	3/4	2,591.13		
4	4	4	4	4	4	4	4,645.87	4	4,331.70	4	4,002.39	4	3,657.94	4	3,301.32	4	2,942.90	4	2,583.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.47	1/4	4,324.98	1/4	3,995.36	1/4	3,650.59	1/4	3,293.87	1/4	2,935.41	1/4	2,576.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,633.07	1/2	4,318.27	1/2	3,988.33	1/2	3,643.24	1/2	3,286.42	1/2	2,927.93	1/2	2,568.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,626.67	3/4	4,311.55	3/4	3,981.30	3/4	3,635.90	3/4	3,278.96	3/4	2,920.45	3/4	2,561.19		
5	5	5	5	5	5	5	4,620.27	5	4,304.84	5	3,974.27	5	3,628.55	5	3,271.51	5	2,912.96	5	2,553.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.84	1/4	4,298.10	1/4	3,967.21	1/4	3,621.18	1/4	3,264.06	1/4	2,905.48	1/4	2,546.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.41	1/2	4,291.35	1/2	3,960.15	1/2	3,613.81	1/2	3,256.61	1/2	2,897.99	1/2	2,538.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,600.99	3/4	4,284.61	3/4	3,953.10	3/4	3,606.43	3/4	3,249.15	3/4	2,890.51	3/4	2,531.25		
6	6	6	6	6	6	6	4,594.56	6	4,277.87	6	3,946.04	6	3,599.06	6	3,241.70	6	2,883.02	6	2,523.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.11	1/4	4,271.10	1/4	3,938.95	1/4	3,591.66	1/4	3,234.25	1/4	2,875.54	1/4	2,516.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,581.65	1/2	4,264.33	1/2	3,931.87	1/2	3,584.27	1/2	3,226.80	1/2	2,868.05	1/2	2,508.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,575.20	3/4	4,257.57	3/4	3,924.79	3/4	3,576.87	3/4	3,219.34	3/4	2,860.57	3/4	2,501.31		
7	7	7	7	7	7	7	4,568.74	7	4,250.80	7	3,917.70	7	3,569.47	7	3,211.89	7	2,853.09	7	2,493.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,562.26	1/4	4,244.00	1/4	3,910.59	1/4	3,562.04	1/4	3,204.44	1/4	2,845.60	1/4	2,486.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,555.78	1/2	4,237.21	1/2	3,903.48	1/2	3,554.62	1/2	3,196.99	1/2	2,838.12	1/2	2,478.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,549.30	3/4	4,230.41	3/4	3,896.37	3/4	3,547.19	3/4	3,189.53	3/4	2,830.63	3/4	2,471.38		
8	8	8	8	8	8	8	4,542.82	8	4,223.61	8	3,889.26	8	3,539.77	8	3,182.08	8	2,823.15	8	2,463.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,536.32	1/4	4,216.79	1/4	3,882.13	1/4	3,532.32	1/4	3,174.63	1/4	2,815.66	1/4	2,456.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,529.81	1/2	4,209.97	1/2	3,874.99	1/2	3,524.88	1/2	3,167.18	1/2	2,808.18	1/2	2,448.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,523.30	3/4	4,203.15	3/4	3,867.85	3/4	3,517.43	3/4	3,159.72	3/4	2,800.69	3/4	2,441.44		
9	9	9	9	9	9	9	4,516.79	9	4,196.33	9	3,860.71	9	3,509.99	9	3,152.27	9	2,793.21	9	2,433.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,510.26	1/4	4,189.48	1/4	3,853.55	1/4	3,502.54	1/4	3,144.82	1/4	2,785.72	1/4	2,426.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,503.73	1/2	4,182.63	1/2	3,846.39	1/2	3,495.08	1/2	3,137.37	1/2	2,778.24	1/2	2,418.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,497.19	3/4	4,175.78	3/4	3,839.22	3/4	3,487.63	3/4	3,129.92	3/4	2,770.76	3/4	2,411.50		
10	10	10	10	10	10	10	4,490.66	10	4,168.93	10	3,832.06	10	3,480.18	10	3,122.46	10	2,763.27	10	2,404.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,484.10	1/4	4,162.05	1/4	3,824.87	1/4	3,472.73	1/4	3,114.99	1/4	2,755.79	1/4	2,396.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,477.54	1/2	4,155.18	1/2	3,817.68	1/2	3,465.27	1/2	3,107.53	1/2	2,748.30	1/2	2,389.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,470.98	3/4	4,148.30	3/4	3,810.49	3/4	3,457.82	3/4	3,100.06	3/4	2,740.82	3/4	2,381.56		
11	11	11	11	11	11	11	4,464.41	11	4,141.43	11	3,803.30	11	3,450.37	11	3,092.59	11	2,733.33	11	2,374.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.83	1/4	4,134.53	1/4	3,796.08	1/4	3,442.92	1/4	3,085.10	1/4	2,725.85	1/4	2,366.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,768.44	1/2	4,451.25	1/2	4,127.62	1/2	3,788.86	1/2	3,435.46	1/2	3,077.62	1/2	2,718.36	1/2	2,359.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.32	3/4	4,444.67	3/4	4,120.72	3/4	3,781.65	3/4	3,428.01	3/4	3,070.14	3/4	2,710.88	3/4	2,351.62

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28193"

2 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	2,344.14	0	1,984.88	0	1,625.63	0	1,275.85	0	930.87	0	572.37	0	213.13	0		0		0	
1/4	2,336.65	1/4	1,977.40	1/4	1,618.14	1/4	1,268.65	1/4	923.57	1/4	564.89	1/4	205.65	1/4	1/4	1/4		1/4	
1/2	2,329.17	1/2	1,969.91	1/2	1,610.66	1/2	1,261.45	1/2	916.28	1/2	557.41	1/2	198.16	1/2	1/2	1/2		1/2	
3/4	2,321.69	3/4	1,962.43	3/4	1,603.17	3/4	1,254.25	3/4	908.98	3/4	549.92	3/4	190.68	3/4	3/4	3/4		3/4	
1	2,314.20	1	1,954.95	1	1,595.69	1	1,247.05	1	901.68	1	542.44	1	183.20	1	1	1		1	
1/4	2,306.72	1/4	1,947.46	1/4	1,588.20	1/4	1,239.84	1/4	894.20	1/4	534.95	1/4	175.72	1/4	1/4	1/4		1/4	
1/2	2,299.23	1/2	1,939.98	1/2	1,580.72	1/2	1,232.64	1/2	886.71	1/2	527.47	1/2	168.25	1/2	1/2	1/2		1/2	
3/4	2,291.75	3/4	1,932.49	3/4	1,573.24	3/4	1,225.44	3/4	879.23	3/4	519.98	3/4	160.77	3/4	3/4	3/4		3/4	
2	2,284.26	2	1,925.01	2	1,565.75	2	1,218.24	2	871.75	2	512.50	2	153.30	2	2	2		2	
1/4	2,276.78	1/4	1,917.52	1/4	1,558.27	1/4	1,211.04	1/4	864.26	1/4	505.02	1/4	145.83	1/4	1/4	1/4		1/4	
1/2	2,269.29	1/2	1,910.04	1/2	1,550.78	1/2	1,203.85	1/2	856.78	1/2	497.53	1/2	138.37	1/2	1/2	1/2		1/2	
3/4	2,261.81	3/4	1,902.55	3/4	1,543.30	3/4	1,196.65	3/4	849.29	3/4	490.05	3/4	130.90	3/4	3/4	3/4		3/4	
3	2,254.33	3	1,895.07	3	1,535.81	3	1,189.45	3	841.81	3	482.56	3	123.44	3	3	3		3	
1/4	2,246.84	1/4	1,887.58	1/4	1,528.43	1/4	1,182.26	1/4	834.32	1/4	475.08	1/4	115.99	1/4	1/4	1/4		1/4	
1/2	2,239.36	1/2	1,880.10	1/2	1,521.06	1/2	1,175.08	1/2	826.84	1/2	467.59	1/2	108.54	1/2	1/2	1/2		1/2	
3/4	2,231.87	3/4	1,872.62	3/4	1,513.68	3/4	1,167.89	3/4	819.36	3/4	460.11	3/4	101.10	3/4	3/4	3/4		3/4	
4	2,224.39	4	1,865.13	4	1,506.30	4	1,160.70	4	811.87	4	452.63	4	93.65	4	4	4		4	
1/4	2,216.90	1/4	1,857.65	1/4	1,499.10	1/4	1,153.51	1/4	804.39	1/4	445.14	1/4	86.24	1/4	1/4	1/4		1/4	
1/2	2,209.42	1/2	1,850.16	1/2	1,491.90	1/2	1,146.33	1/2	796.90	1/2	437.66	1/2	78.82	1/2	1/2	1/2		1/2	
3/4	2,201.93	3/4	1,842.68	3/4	1,484.70	3/4	1,139.14	3/4	789.42	3/4	430.17	3/4	71.40	3/4	3/4	3/4		3/4	
5	2,194.45	5	1,835.19	5	1,477.49	5	1,131.95	5	781.93	5	422.69	5	63.99	5	5	5		5	
1/4	2,186.96	1/4	1,827.71	1/4	1,470.29	1/4	1,124.77	1/4	774.45	1/4	415.20	1/4	57.03	1/4	1/4	1/4		1/4	
1/2	2,179.48	1/2	1,820.22	1/2	1,463.09	1/2	1,117.59	1/2	766.97	1/2	407.72	1/2	50.08	1/2	1/2	1/2		1/2	
3/4	2,172.00	3/4	1,812.74	3/4	1,455.89	3/4	1,110.41	3/4	759.48	3/4	400.24	3/4	43.12	3/4	3/4	3/4		3/4	
6	2,164.51	6	1,805.26	6	1,448.69	6	1,103.23	6	752.00	6	392.75	6	36.17	6	6	6		6	
1/4	2,157.03	1/4	1,797.77	1/4	1,441.49	1/4	1,096.05	1/4	744.51	1/4	385.27	1/4	30.87	1/4	1/4	1/4		1/4	
1/2	2,149.54	1/2	1,790.29	1/2	1,434.28	1/2	1,088.86	1/2	737.03	1/2	377.78	1/2	25.57	1/2	1/2	1/2		1/2	
3/4	2,142.06	3/4	1,782.80	3/4	1,427.08	3/4	1,081.68	3/4	729.54	3/4	370.30	3/4	20.27	3/4	3/4	3/4		3/4	
7	2,134.57	7	1,775.32	7	1,419.88	7	1,074.50	7	722.06	7	362.81	7	14.97	7	7	7		7	
1/4	2,127.09	1/4	1,767.83	1/4	1,412.68	1/4	1,067.32	1/4	714.58	1/4	355.33	1/4		1/4	1/4	1/4		1/4	
1/2	2,119.60	1/2	1,760.35	1/2	1,405.48	1/2	1,060.14	1/2	707.09	1/2	347.84	1/2		1/2	1/2	1/2		1/2	
3/4	2,112.12	3/4	1,752.86	3/4	1,398.28	3/4	1,052.96	3/4	699.61	3/4	340.36	3/4		3/4	3/4	3/4		3/4	
8	2,104.64	8	1,745.38	8	1,391.08	8	1,045.77	8	692.12	8	332.88	8		8	8	8		8	
1/4	2,097.15	1/4	1,737.89	1/4	1,383.87	1/4	1,038.59	1/4	684.64	1/4	325.39	1/4		1/4	1/4	1/4		1/4	
1/2	2,089.67	1/2	1,730.41	1/2	1,376.67	1/2	1,031.41	1/2	677.15	1/2	317.91	1/2		1/2	1/2	1/2		1/2	
3/4	2,082.18	3/4	1,722.93	3/4	1,369.47	3/4	1,024.23	3/4	669.67	3/4	310.42	3/4		3/4	3/4	3/4		3/4	
9	2,074.70	9	1,715.44	9	1,362.27	9	1,017.05	9	662.19	9	302.94	9		9	9	9		9	
1/4	2,067.21	1/4	1,707.96	1/4	1,355.07	1/4	1,009.87	1/4	654.70	1/4	295.45	1/4		1/4	1/4	1/4		1/4	
1/2	2,059.73	1/2	1,700.47	1/2	1,347.87	1/2	1,002.68	1/2	647.22	1/2	287.97	1/2		1/2	1/2	1/2		1/2	
3/4	2,052.24	3/4	1,692.99	3/4	1,340.67	3/4	995.50	3/4	639.73	3/4	280.49	3/4		3/4	3/4	3/4		3/4	
10	2,044.76	10	1,685.50	10	1,333.46	10	988.32	10	632.25	10	273.00	10		10	10	10		10	
1/4	2,037.27	1/4	1,678.02	1/4	1,326.26	1/4	981.14	1/4	624.76	1/4	265.52	1/4		1/4	1/4	1/4		1/4	
1/2	2,029.79	1/2	1,670.53	1/2	1,319.06	1/2	973.96	1/2	617.28	1/2	258.03	1/2		1/2	1/2	1/2		1/2	
3/4	2,022.31	3/4	1,663.05	3/4	1,311.86	3/4	966.78	3/4	609.80	3/4	250.55	3/4		3/4	3/4	3/4		3/4	
11	2,014.82	11	1,655.57	11	1,304.66	11	959.59	11	602.31	11	243.06	11		11	11	11		11	
1/4	2,007.34	1/4	1,648.08	1/4	1,297.46	1/4	952.41	1/4	594.83	1/4	235.58	1/4		1/4	1/4	1/4		1/4	
1/2	1,999.85	1/2	1,640.60	1/2	1,290.25	1/2	945.23	1/2	587.34	1/2	228.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,992.37	3/4	1,633.11	3/4	1,283.05	3/4	938.05	3/4	579.86	3/4	220.61	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 28193"

2 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,787.45	0	4,468.79	0	4,144.85	0	3,805.77	0	3,452.14	0	3,094.29	0	2,735.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,782.34	1/4	4,462.21	1/4	4,137.95	1/4	3,798.56	1/4	3,444.69	1/4	3,086.80	1/4	2,727.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,775.99	1/2	4,455.60	1/2	4,131.02	1/2	3,791.31	1/2	3,437.23	1/2	3,079.32	1/2	2,720.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,769.65	3/4	4,448.99	3/4	4,124.10	3/4	3,784.07	3/4	3,429.78	3/4	3,071.83	3/4	2,712.57
1		1		1		1	4,442.38	1	4,117.17	1	3,776.82	1	3,422.33	1	3,064.35	1	2,705.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,756.96	1/4	4,435.78	1/4	4,110.25	1/4	3,769.58	1/4	3,414.88	1/4	3,056.86	1/4	2,697.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,749.72	1/2	4,429.14	1/2	4,103.30	1/2	3,762.31	1/2	3,407.43	1/2	3,049.38	1/2	2,690.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,742.49	3/4	4,422.50	3/4	4,096.35	3/4	3,755.05	3/4	3,399.97	3/4	3,041.89	3/4	2,682.63
2		2		2		2	4,735.26	2	4,415.87	2	4,089.39	2	3,747.78	2	3,392.52	2	3,034.41	2	2,675.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,728.03	1/4	4,409.23	1/4	4,082.44	1/4	3,740.51	1/4	3,385.07	1/4	3,026.92	1/4	2,667.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,720.57	1/2	4,402.57	1/2	4,075.47	1/2	3,733.22	1/2	3,377.62	1/2	3,019.44	1/2	2,660.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,713.12	3/4	4,395.91	3/4	4,068.49	3/4	3,725.93	3/4	3,370.16	3/4	3,011.96	3/4	2,652.69
3		3		3		3	4,705.67	3	4,389.25	3	4,061.51	3	3,718.63	3	3,362.71	3	3,004.47	3	2,645.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,698.22	1/4	4,382.58	1/4	4,054.53	1/4	3,711.34	1/4	3,355.26	1/4	2,996.99	1/4	2,637.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,691.16	1/2	4,375.89	1/2	4,047.53	1/2	3,704.02	1/2	3,347.81	1/2	2,989.50	1/2	2,630.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.11	3/4	4,369.21	3/4	4,040.52	3/4	3,696.70	3/4	3,340.35	3/4	2,982.02	3/4	2,622.76
4		4		4		4	4,677.05	4	4,362.52	4	4,033.52	4	3,689.38	4	3,332.90	4	2,974.53	4	2,615.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,670.00	1/4	4,355.83	1/4	4,026.52	1/4	3,682.06	1/4	3,325.45	1/4	2,967.05	1/4	2,607.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.60	1/2	4,349.11	1/2	4,019.49	1/2	3,674.72	1/2	3,318.00	1/2	2,959.56	1/2	2,600.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,657.20	3/4	4,342.40	3/4	4,012.46	3/4	3,667.37	3/4	3,310.54	3/4	2,952.08	3/4	2,592.82
5		5		5		5	4,650.80	5	4,335.68	5	4,005.42	5	3,660.03	5	3,303.09	5	2,944.59	5	2,585.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,644.40	1/4	4,328.97	1/4	3,998.39	1/4	3,652.68	1/4	3,295.64	1/4	2,937.11	1/4	2,577.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,637.97	1/2	4,322.23	1/2	3,991.34	1/2	3,645.31	1/2	3,288.19	1/2	2,929.62	1/2	2,570.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,631.54	3/4	4,315.48	3/4	3,984.28	3/4	3,637.94	3/4	3,280.73	3/4	2,922.14	3/4	2,562.88
6		6		6		6	4,625.12	6	4,308.74	6	3,977.22	6	3,630.56	6	3,273.28	6	2,914.66	6	2,555.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,618.69	1/4	4,302.00	1/4	3,970.17	1/4	3,623.19	1/4	3,265.83	1/4	2,907.17	1/4	2,547.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,612.24	1/2	4,295.23	1/2	3,963.08	1/2	3,615.79	1/2	3,258.38	1/2	2,899.69	1/2	2,540.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,605.78	3/4	4,288.46	3/4	3,956.00	3/4	3,608.39	3/4	3,250.92	3/4	2,892.20	3/4	2,532.94
7		7		7		7	4,599.33	7	4,281.69	7	3,948.92	7	3,601.00	7	3,243.47	7	2,884.72	7	2,525.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,592.87	1/4	4,274.93	1/4	3,941.83	1/4	3,593.60	1/4	3,236.02	1/4	2,877.23	1/4	2,517.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,586.39	1/2	4,268.13	1/2	3,934.72	1/2	3,586.17	1/2	3,228.57	1/2	2,869.75	1/2	2,510.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,579.91	3/4	4,261.33	3/4	3,927.61	3/4	3,578.75	3/4	3,221.12	3/4	2,862.26	3/4	2,503.00
8		8		8		8	4,573.43	8	4,254.54	8	3,920.50	8	3,571.32	8	3,213.66	8	2,854.78	8	2,495.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,566.95	1/4	4,247.74	1/4	3,913.39	1/4	3,563.89	1/4	3,206.21	1/4	2,847.29	1/4	2,488.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,560.45	1/2	4,240.92	1/2	3,906.25	1/2	3,556.45	1/2	3,198.76	1/2	2,839.81	1/2	2,480.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,553.94	3/4	4,234.10	3/4	3,899.12	3/4	3,549.00	3/4	3,191.31	3/4	2,832.33	3/4	2,473.06
9		9		9		9	4,547.43	9	4,227.28	9	3,891.98	9	3,541.56	9	3,183.85	9	2,824.84	9	2,465.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.92	1/4	4,220.46	1/4	3,884.84	1/4	3,534.12	1/4	3,176.40	1/4	2,817.36	1/4	2,458.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,534.39	1/2	4,213.61	1/2	3,877.68	1/2	3,526.66	1/2	3,168.95	1/2	2,809.87	1/2	2,450.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,527.85	3/4	4,206.76	3/4	3,870.51	3/4	3,519.21	3/4	3,161.50	3/4	2,802.39	3/4	2,443.13
10		10		10		10	4,521.32	10	4,199.91	10	3,863.35	10	3,511.76	10	3,154.04	10	2,794.90	10	2,435.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,514.79	1/4	4,193.06	1/4	3,856.19	1/4	3,504.31	1/4	3,146.59	1/4	2,787.42	1/4	2,428.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,508.23	1/2	4,186.18	1/2	3,849.00	1/2	3,496.85	1/2	3,139.13	1/2	2,779.93	1/2	2,420.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,501.67	3/4	4,179.31	3/4	3,841.81	3/4	3,489.40	3/4	3,131.67	3/4	2,772.45	3/4	2,413.19
11		11		11		11	4,495.10	11	4,172.43	11	3,834.61	11	3,481.95	11	3,124.20	11	2,764.96	11	2,405.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,488.54	1/4	4,165.56	1/4	3,827.42	1/4	3,474.50	1/4	3,116.74	1/4	2,757.48	1/4	2,398.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,481.96	1/2	4,158.65	1/2	3,820.21	1/2	3,467.04	1/2	3,109.26	1/2	2,749.99	1/2	2,390.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,475.38	3/4	4,151.75	3/4	3,812.99	3/4	3,459.59	3/4	3,101.77	3/4	2,742.51	3/4	2,383.25

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'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28193"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,375.76	0	2,016.50	0	1,657.24	0	1,297.98	0	939.02	0	579.86	0	220.61	0		0		0	
1/4	2,368.28	1/4	2,009.02	1/4	1,649.76	1/4	1,290.50	1/4	931.55	1/4	572.37	1/4	213.13	1/4		1/4		1/4	
1/2	2,360.80	1/2	2,001.53	1/2	1,642.27	1/2	1,283.01	1/2	924.08	1/2	564.89	1/2	205.65	1/2		1/2		1/2	
3/4	2,353.31	3/4	1,994.05	3/4	1,634.79	3/4	1,275.53	3/4	916.60	3/4	557.41	3/4	198.16	3/4		3/4		3/4	
1	2,345.83	1	1,986.57	1	1,627.30	1	1,268.04	1	909.13	1	549.92	1	190.68	1		1		1	
1/4	2,338.34	1/4	1,979.08	1/4	1,619.82	1/4	1,260.56	1/4	901.66	1/4	542.44	1/4	183.20	1/4		1/4		1/4	
1/2	2,330.86	1/2	1,971.60	1/2	1,612.34	1/2	1,253.07	1/2	894.18	1/2	534.95	1/2	175.72	1/2		1/2		1/2	
3/4	2,323.37	3/4	1,964.11	3/4	1,604.85	3/4	1,245.59	3/4	886.70	3/4	527.47	3/4	168.25	3/4		3/4		3/4	
2	2,315.89	2	1,956.63	2	1,597.37	2	1,238.11	2	879.22	2	519.98	2	160.77	2		2		2	
1/4	2,308.40	1/4	1,949.14	1/4	1,589.88	1/4	1,230.62	1/4	871.75	1/4	512.50	1/4	153.30	1/4		1/4		1/4	
1/2	2,300.92	1/2	1,941.66	1/2	1,582.40	1/2	1,223.14	1/2	864.26	1/2	505.02	1/2	145.83	1/2		1/2		1/2	
3/4	2,293.43	3/4	1,934.17	3/4	1,574.91	3/4	1,215.65	3/4	856.78	3/4	497.53	3/4	138.37	3/4		3/4		3/4	
3	2,285.95	3	1,926.69	3	1,567.43	3	1,208.17	3	849.29	3	490.05	3	130.90	3		3		3	
1/4	2,278.46	1/4	1,919.20	1/4	1,559.94	1/4	1,200.68	1/4	841.81	1/4	482.56	1/4	123.44	1/4		1/4		1/4	
1/2	2,270.98	1/2	1,911.72	1/2	1,552.46	1/2	1,193.20	1/2	834.32	1/2	475.08	1/2	115.99	1/2		1/2		1/2	
3/4	2,263.50	3/4	1,904.23	3/4	1,544.97	3/4	1,185.71	3/4	826.84	3/4	467.59	3/4	108.54	3/4		3/4		3/4	
4	2,256.01	4	1,896.75	4	1,537.49	4	1,178.23	4	819.36	4	460.11	4	101.10	4		4		4	
1/4	2,248.53	1/4	1,889.27	1/4	1,530.00	1/4	1,170.74	1/4	811.87	1/4	452.63	1/4	93.65	1/4		1/4		1/4	
1/2	2,241.04	1/2	1,881.78	1/2	1,522.52	1/2	1,163.26	1/2	804.39	1/2	445.14	1/2	86.24	1/2		1/2		1/2	
3/4	2,233.56	3/4	1,874.30	3/4	1,515.04	3/4	1,155.77	3/4	796.90	3/4	437.66	3/4	78.82	3/4		3/4		3/4	
5	2,226.07	5	1,866.81	5	1,507.55	5	1,148.29	5	789.42	5	430.17	5	71.40	5		5		5	
1/4	2,218.59	1/4	1,859.33	1/4	1,500.07	1/4	1,140.81	1/4	781.93	1/4	422.69	1/4	63.99	1/4		1/4		1/4	
1/2	2,211.10	1/2	1,851.84	1/2	1,492.58	1/2	1,133.33	1/2	774.45	1/2	415.20	1/2	57.03	1/2		1/2		1/2	
3/4	2,203.62	3/4	1,844.36	3/4	1,485.10	3/4	1,125.85	3/4	766.97	3/4	407.72	3/4	50.08	3/4		3/4		3/4	
6	2,196.13	6	1,836.87	6	1,477.61	6	1,118.37	6	759.48	6	400.24	6	43.12	6		6		6	
1/4	2,188.65	1/4	1,829.39	1/4	1,470.13	1/4	1,110.89	1/4	752.00	1/4	392.75	1/4	36.17	1/4		1/4		1/4	
1/2	2,181.16	1/2	1,821.90	1/2	1,462.64	1/2	1,103.41	1/2	744.51	1/2	385.27	1/2	30.87	1/2		1/2		1/2	
3/4	2,173.68	3/4	1,814.42	3/4	1,455.16	3/4	1,095.94	3/4	737.03	3/4	377.84	3/4	25.57	3/4		3/4		3/4	
7	2,166.20	7	1,806.93	7	1,447.67	7	1,088.47	7	729.54	7	370.30	7	20.27	7		7		7	
1/4	2,158.71	1/4	1,799.45	1/4	1,440.19	1/4	1,081.00	1/4	722.06	1/4	362.81	1/4	14.97	1/4		1/4		1/4	
1/2	2,151.23	1/2	1,791.97	1/2	1,432.70	1/2	1,073.52	1/2	714.58	1/2	355.33	1/2		1/2		1/2		1/2	
3/4	2,143.74	3/4	1,784.48	3/4	1,425.22	3/4	1,066.05	3/4	707.09	3/4	347.84	3/4		3/4		3/4		3/4	
8	2,136.26	8	1,777.00	8	1,417.74	8	1,058.58	8	699.61	8	340.36	8		8		8		8	
1/4	2,128.77	1/4	1,769.51	1/4	1,410.25	1/4	1,051.11	1/4	692.12	1/4	332.88	1/4		1/4		1/4		1/4	
1/2	2,121.29	1/2	1,762.03	1/2	1,402.77	1/2	1,043.63	1/2	684.64	1/2	325.39	1/2		1/2		1/2		1/2	
3/4	2,113.80	3/4	1,754.54	3/4	1,395.28	3/4	1,036.16	3/4	677.15	3/4	317.91	3/4		3/4		3/4		3/4	
9	2,106.32	9	1,747.06	9	1,387.80	9	1,028.69	9	669.67	9	310.42	9		9		9		9	
1/4	2,098.83	1/4	1,739.57	1/4	1,380.31	1/4	1,021.22	1/4	662.19	1/4	302.94	1/4		1/4		1/4		1/4	
1/2	2,091.35	1/2	1,732.09	1/2	1,372.83	1/2	1,013.74	1/2	654.70	1/2	295.45	1/2		1/2		1/2		1/2	
3/4	2,083.87	3/4	1,724.60	3/4	1,365.34	3/4	1,006.27	3/4	647.22	3/4	287.97	3/4		3/4		3/4		3/4	
10	2,076.38	10	1,717.12	10	1,357.86	10	998.80	10	639.73	10	280.49	10		10		10		10	
1/4	2,068.90	1/4	1,709.64	1/4	1,350.37	1/4	991.33	1/4	632.25	1/4	273.00	1/4		1/4		1/4		1/4	
1/2	2,061.41	1/2	1,702.15	1/2	1,342.89	1/2	983.85	1/2	624.76	1/2	265.52	1/2		1/2		1/2		1/2	
3/4	2,053.93	3/4	1,694.67	3/4	1,335.41	3/4	976.38	3/4	617.28	3/4	258.03	3/4		3/4		3/4		3/4	
11	2,046.44	11	1,687.18	11	1,327.92	11	968.91	11	609.80	11	250.55	11		11		11		11	
1/4	2,038.96	1/4	1,679.70	1/4	1,320.44	1/4	961.44	1/4	602.31	1/4	243.06	1/4		1/4		1/4		1/4	
1/2	2,031.47	1/2	1,672.21	1/2	1,312.95	1/2	953.96	1/2	594.83	1/2	235.58	1/2		1/2		1/2		1/2	
3/4	2,023.99	3/4	1,664.73	3/4	1,305.47	3/4	946.49	3/4	587.34	3/4	228.10	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

PRECISION MEASUREMENT
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<http://www.pmacorp.net>



BARGE "KIRBY 28193"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,349.43	0	4,107.73	0	3,860.75	0	3,601.79	0	3,331.23	0	2,975.32	0	2,618.79		
1/4		1/4		1/4		1/4	4,345.27	1/4	4,102.70	1/4	3,855.47	1/4	3,596.26	1/4	3,323.80	1/4	2,967.89	1/4	2,611.36		
1/2		1/2		1/2		1/2	4,341.12	1/2	4,097.67	1/2	3,850.19	1/2	3,590.72	1/2	3,316.37	1/2	2,960.46	1/2	2,603.93		
3/4		3/4		3/4		3/4	4,336.97	3/4	4,092.65	3/4	3,844.91	3/4	3,585.19	3/4	3,308.94	3/4	2,953.04	3/4	2,596.50		
1		1		1		1	4,332.82	1	4,087.62	1	3,839.63	1	3,579.66	1	3,301.51	1	2,945.61	1	2,589.07		
1/4		1/4		1/4		1/4	4,327.46	1/4	4,082.57	1/4	3,834.33	1/4	3,574.10	1/4	3,294.08	1/4	2,938.18	1/4	2,581.65		
1/2		1/2		1/2		1/2	4,322.10	1/2	4,077.51	1/2	3,829.03	1/2	3,568.55	1/2	3,286.65	1/2	2,930.75	1/2	2,574.22		
3/4		3/4		3/4		3/4	4,316.74	3/4	4,072.46	3/4	3,823.73	3/4	3,563.00	3/4	3,279.22	3/4	2,923.32	3/4	2,566.79		
2		2		2		2	4,311.39	2	4,067.41	2	3,818.43	2	3,557.45	2	3,271.79	2	2,915.90	2	2,559.36		
1/4		1/4		1/4		1/4	4,305.68	1/4	4,062.34	1/4	3,813.11	1/4	3,551.88	1/4	3,264.35	1/4	2,908.47	1/4	2,551.93		
1/2		1/2		1/2		1/2	4,299.97	1/2	4,057.27	1/2	3,807.79	1/2	3,546.31	1/2	3,256.92	1/2	2,901.04	1/2	2,544.51		
3/4		3/4		3/4		3/4	4,294.27	3/4	4,052.20	3/4	3,802.46	3/4	3,540.74	3/4	3,249.49	3/4	2,893.61	3/4	2,537.08		
3		3		3		3	4,288.56	3	4,047.13	3	3,797.14	3	3,535.17	3	3,242.06	3	2,886.19	3	2,529.65		
1/4		1/4		1/4		1/4	4,282.86	1/4	4,042.04	1/4	3,791.80	1/4	3,529.58	1/4	3,234.63	1/4	2,878.76	1/4	2,522.22		
1/2		1/2		1/2		1/2	4,277.15	1/2	4,036.94	1/2	3,786.46	1/2	3,523.98	1/2	3,227.20	1/2	2,871.33	1/2	2,514.80		
3/4		3/4		3/4		3/4	4,271.44	3/4	4,031.85	3/4	3,781.12	3/4	3,518.39	3/4	3,219.77	3/4	2,863.90	3/4	2,507.37		
4		4		4		4	4,265.74	4	4,026.76	4	3,775.78	4	3,512.80	4	3,212.34	4	2,856.47	4	2,499.94		
1/4		1/4		1/4		1/4	4,260.87	1/4	4,021.64	1/4	3,770.41	1/4	3,507.19	1/4	3,204.93	1/4	2,849.05	1/4	2,492.51		
1/2		1/2		1/2		1/2	4,256.01	1/2	4,016.53	1/2	3,765.05	1/2	3,501.57	1/2	3,197.53	1/2	2,841.62	1/2	2,485.08		
3/4		3/4		3/4		3/4	4,251.14	3/4	4,011.42	3/4	3,759.68	3/4	3,495.96	3/4	3,190.13	3/4	2,834.19	3/4	2,477.66		
5		5		5		5	4,246.28	5	4,006.31	5	3,754.32	5	3,490.35	5	3,182.72	5	2,826.76	5	2,470.23		
1/4		1/4		1/4		1/4	4,241.39	1/4	4,001.17	1/4	3,748.93	1/4	3,484.72	1/4	3,175.32	1/4	2,819.34	1/4	2,462.80		
1/2		1/2		1/2		1/2	4,236.51	1/2	3,996.04	1/2	3,743.55	1/2	3,479.08	1/2	3,167.91	1/2	2,811.91	1/2	2,455.37		
3/4		3/4		3/4		3/4	4,231.63	3/4	3,990.90	3/4	3,738.17	3/4	3,473.44	3/4	3,160.51	3/4	2,804.48	3/4	2,447.95		
6		6		6		6	4,226.75	6	3,985.76	6	3,732.79	6	3,467.81	6	3,153.11	6	2,797.05	6	2,440.52		
1/4		1/4		1/4		1/4	4,221.84	1/4	3,980.61	1/4	3,727.38	1/4	3,462.16	1/4	3,145.70	1/4	2,789.62	1/4	2,433.09		
1/2		1/2		1/2		1/2	4,216.93	1/2	3,975.46	1/2	3,721.97	1/2	3,456.50	1/2	3,138.30	1/2	2,782.20	1/2	2,425.66		
3/4		3/4		3/4		3/4	4,212.02	3/4	3,970.30	3/4	3,716.57	3/4	3,450.85	3/4	3,130.90	3/4	2,774.77	3/4	2,418.23		
7		7		7		7	4,207.11	7	3,965.15	7	3,711.16	7	3,445.19	7	3,123.49	7	2,767.34	7	2,410.81		
1/4		1/4		1/4		1/4	4,202.19	1/4	3,959.97	1/4	3,705.74	1/4	3,439.52	1/4	3,116.09	1/4	2,759.91	1/4	2,403.38		
1/2		1/2		1/2		1/2	4,197.26	1/2	3,954.79	1/2	3,700.31	1/2	3,433.84	1/2	3,108.68	1/2	2,752.49	1/2	2,395.95		
3/4		3/4		3/4		3/4	4,192.34	3/4	3,949.61	3/4	3,694.89	3/4	3,428.16	3/4	3,101.28	3/4	2,745.06	3/4	2,388.52		
8		8		8		8	4,187.41	8	3,944.43	8	3,689.46	8	3,422.48	8	3,093.88	8	2,737.63	8	2,381.10		
1/4		1/4		1/4		1/4	4,182.46	1/4	3,939.24	1/4	3,684.01	1/4	3,416.79	1/4	3,086.47	1/4	2,730.20	1/4	2,373.67		
1/2		1/2		1/2		1/2	4,177.51	1/2	3,934.04	1/2	3,678.56	1/2	3,411.09	1/2	3,079.07	1/2	2,722.77	1/2	2,366.24		
3/4		3/4		3/4		3/4	4,172.56	3/4	3,928.84	3/4	3,673.11	3/4	3,405.40	3/4	3,071.66	3/4	2,715.35	3/4	2,358.81		
9		9		9		9	4,167.61	9	3,923.65	9	3,667.67	9	3,399.70	9	3,064.26	9	2,707.92	9	2,351.38		
1/4		1/4		1/4		1/4	4,162.64	1/4	3,918.43	1/4	3,662.20	1/4	3,393.99	1/4	3,056.86	1/4	2,700.49	1/4	2,343.95		
1/2		1/2		1/2		1/2	4,157.68	1/2	3,913.20	1/2	3,656.73	1/2	3,388.29	1/2	3,049.45	1/2	2,693.06	1/2	2,336.53		
3/4		3/4		3/4		3/4	4,152.71	3/4	3,907.98	3/4	3,651.26	3/4	3,382.58	3/4	3,042.05	3/4	2,685.64	3/4	2,329.10		
10		10		10		10	4,147.74	10	3,902.76	10	3,645.80	10	3,376.88	10	3,034.65	10	2,678.21	10	2,321.67		
1/4		1/4		1/4		1/4	4,142.75	1/4	3,897.52	1/4	3,640.31	1/4	3,371.17	1/4	3,027.24	1/4	2,670.78	1/4	2,314.24		
1/2		1/2		1/2		1/2	4,137.76	1/2	3,892.28	1/2	3,634.81	1/2	3,365.47	1/2	3,019.84	1/2	2,663.35	1/2	2,306.81		
3/4		3/4		3/4		3/4	4,132.76	3/4	3,887.05	3/4	3,629.32	3/4	3,359.76	3/4	3,012.43	3/4	2,655.92	3/4	2,299.38		
11		11		11		11	4,367.97	11	4,127.77	11	3,881.81	11	3,623.83	11	3,354.06	11	3,005.03	11	2,648.50	11	2,291.96
1/4		1/4		1/4		1/4	4,363.33	1/4	4,122.76	1/4	3,876.54	1/4	3,618.32	1/4	3,348.35	1/4	2,997.60	1/4	2,641.07	1/4	2,284.53
1/2		1/2		1/2		1/2	4,358.70	1/2	4,117.75	1/2	3,871.28	1/2	3,612.81	1/2	3,342.64	1/2	2,990.18	1/2	2,633.64	1/2	2,277.10
3/4		3/4		3/4		3/4	4,354.06	3/4	4,112.74	3/4	3,866.02	3/4	3,607.30	3/4	3,336.94	3/4	2,982.75	3/4	2,626.21	3/4	2,269.67

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 50'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28193"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	2,262.24	0	1,905.23	0	1,549.26	0	1,193.09	0	848.26	0	491.13	0	133.83	0		0		0	
1/4	2,254.81	1/4	1,897.81	1/4	1,541.81	1/4	1,185.92	1/4	840.84	1/4	483.69	1/4	126.39	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,247.39	1/2	1,890.40	1/2	1,534.37	1/2	1,178.75	1/2	833.41	1/2	476.24	1/2	118.95	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,239.96	3/4	1,882.98	3/4	1,526.93	3/4	1,171.57	3/4	825.99	3/4	468.80	3/4	111.50	3/4	3/4	3/4	3/4	3/4	3/4
1	2,232.53	1	1,875.57	1	1,519.49	1	1,164.40	1	818.57	1	461.35	1	104.06	1	1	1	1	1	1
1/4	2,225.10	1/4	1,868.15	1/4	1,512.05	1/4	1,157.22	1/4	811.15	1/4	453.91	1/4	96.93	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,217.67	1/2	1,860.73	1/2	1,504.60	1/2	1,150.05	1/2	803.72	1/2	446.47	1/2	89.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,210.24	3/4	1,853.32	3/4	1,497.16	3/4	1,142.87	3/4	796.30	3/4	439.02	3/4	82.67	3/4	3/4	3/4	3/4	3/4	3/4
2	2,202.82	2	1,845.90	2	1,489.72	2	1,135.70	2	788.88	2	431.58	2	75.55	2	2	2	2	2	2
1/4	2,195.39	1/4	1,838.48	1/4	1,482.28	1/4	1,128.53	1/4	781.43	1/4	424.14	1/4	69.36	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,187.96	1/2	1,831.07	1/2	1,474.83	1/2	1,121.35	1/2	773.99	1/2	416.69	1/2	63.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,180.53	3/4	1,823.65	3/4	1,467.39	3/4	1,114.18	3/4	766.55	3/4	409.25	3/4	56.98	3/4	3/4	3/4	3/4	3/4	3/4
3	2,173.10	3	1,816.24	3	1,459.95	3	1,107.00	3	759.10	3	401.81	3	50.80	3	3	3	3	3	3
1/4	2,165.67	1/4	1,808.82	1/4	1,452.51	1/4	1,099.83	1/4	751.66	1/4	394.36	1/4	45.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,158.25	1/2	1,801.40	1/2	1,445.06	1/2	1,092.65	1/2	744.22	1/2	386.92	1/2	40.93	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,150.82	3/4	1,793.99	3/4	1,437.62	3/4	1,085.48	3/4	736.77	3/4	379.47	3/4	36.00	3/4	3/4	3/4	3/4	3/4	3/4
4	2,143.39	4	1,786.57	4	1,430.18	4	1,078.31	4	729.33	4	372.03	4	31.07	4	4	4	4	4	4
1/4	2,135.95	1/4	1,779.16	1/4	1,422.74	1/4	1,071.15	1/4	721.88	1/4	364.59	1/4	27.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,128.50	1/2	1,771.74	1/2	1,415.29	1/2	1,063.98	1/2	714.44	1/2	357.14	1/2	23.74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,121.06	3/4	1,764.32	3/4	1,407.85	3/4	1,056.82	3/4	707.00	3/4	349.70	3/4	20.07	3/4	3/4	3/4	3/4	3/4	3/4
5	2,113.62	5	1,756.91	5	1,400.41	5	1,049.66	5	699.55	5	342.26	5	16.40	5	5	5	5	5	5
1/4	2,106.18	1/4	1,749.49	1/4	1,392.97	1/4	1,042.50	1/4	692.11	1/4	334.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,098.73	1/2	1,742.08	1/2	1,385.52	1/2	1,035.34	1/2	684.67	1/2	327.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,091.29	3/4	1,734.66	3/4	1,378.08	3/4	1,028.18	3/4	677.22	3/4	319.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,083.85	6	1,727.24	6	1,370.64	6	1,021.02	6	669.78	6	312.48	6		6	6	6	6	6	6
1/4	2,076.41	1/4	1,719.83	1/4	1,363.20	1/4	1,013.87	1/4	662.33	1/4	305.04	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,068.96	1/2	1,712.41	1/2	1,355.75	1/2	1,006.71	1/2	654.89	1/2	297.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,061.52	3/4	1,705.00	3/4	1,348.31	3/4	999.55	3/4	647.45	3/4	290.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,054.08	7	1,697.58	7	1,340.87	7	992.40	7	640.00	7	282.71	7		7	7	7	7	7	7
1/4	2,046.64	1/4	1,690.16	1/4	1,333.43	1/4	985.24	1/4	632.56	1/4	275.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,039.19	1/2	1,682.75	1/2	1,325.99	1/2	978.09	1/2	625.12	1/2	267.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,031.75	3/4	1,675.33	3/4	1,318.54	3/4	970.94	3/4	617.67	3/4	260.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,024.31	8	1,667.91	8	1,311.10	8	963.78	8	610.23	8	252.93	8		8	8	8	8	8	8
1/4	2,016.87	1/4	1,660.50	1/4	1,303.66	1/4	956.63	1/4	602.78	1/4	245.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,009.42	1/2	1,653.08	1/2	1,296.22	1/2	949.48	1/2	595.34	1/2	238.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.98	3/4	1,645.67	3/4	1,288.77	3/4	942.33	3/4	587.90	3/4	230.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,994.54	9	1,638.25	9	1,281.33	9	935.17	9	580.45	9	223.16	9		9	9	9	9	9	9
1/4	1,987.10	1/4	1,630.83	1/4	1,273.89	1/4	928.02	1/4	573.01	1/4	215.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.65	1/2	1,623.42	1/2	1,266.45	1/2	920.87	1/2	565.57	1/2	208.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.21	3/4	1,616.00	3/4	1,259.00	3/4	913.71	3/4	558.12	3/4	200.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,964.77	10	1,608.59	10	1,251.56	10	906.56	10	550.68	10	193.38	10		10	10	10	10	10	10
1/4	1,957.33	1/4	1,601.17	1/4	1,244.12	1/4	899.41	1/4	543.24	1/4	185.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,949.88	1/2	1,593.75	1/2	1,236.68	1/2	892.25	1/2	535.79	1/2	178.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.44	3/4	1,586.34	3/4	1,229.23	3/4	885.10	3/4	528.35	3/4	171.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,935.00	11	1,578.92	11	1,221.79	11	877.95	11	520.90	11	163.61	11		11	11	11	11	11	11
1/4	1,927.56	1/4	1,571.51	1/4	1,214.36	1/4	870.53	1/4	513.46	1/4	156.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,920.11	1/2	1,564.09	1/2	1,207.44	1/2	863.10	1/2	506.02	1/2	148.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.67	3/4	1,556.67	3/4	1,200.27	3/4	855.68	3/4	498.57	3/4	141.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

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



BARGE "KIRBY 28193"

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
1/4		1/4		1/4		1/4	4,373.14	1/4	4,129.41	1/4	3,881.02	1/4	3,620.63	1/4	3,346.98	1/4	2,989.11	1/4	2,631.25
1/2		1/2		1/2		1/2	4,368.96	1/2	4,124.36	1/2	3,875.71	1/2	3,615.08	1/2	3,339.52	1/2	2,981.66	1/2	2,623.79
3/4		3/4		3/4		3/4	4,364.79	3/4	4,119.31	3/4	3,870.41	3/4	3,609.52	3/4	3,332.06	3/4	2,974.20	3/4	2,616.34
1		1		1		1	4,360.61	1	4,114.25	1	3,865.11	1	3,603.96	1	3,324.61	1	2,966.74	1	2,608.88
1/4		1/4		1/4		1/4	4,355.23	1/4	4,109.18	1/4	3,859.78	1/4	3,598.38	1/4	3,317.15	1/4	2,959.29	1/4	2,601.43
1/2		1/2		1/2		1/2	4,349.85	1/2	4,104.10	1/2	3,854.46	1/2	3,592.81	1/2	3,309.70	1/2	2,951.83	1/2	2,593.97
3/4		3/4		3/4		3/4	4,344.47	3/4	4,099.03	3/4	3,849.13	3/4	3,587.23	3/4	3,302.24	3/4	2,944.38	3/4	2,586.51
2		2		2		2	4,339.08	2	4,093.95	2	3,843.81	2	3,581.65	2	3,294.79	2	2,936.92	2	2,579.06
1/4		1/4		1/4		1/4	4,333.35	1/4	4,088.86	1/4	3,838.46	1/4	3,576.06	1/4	3,287.33	1/4	2,929.47	1/4	2,571.60
1/2		1/2		1/2		1/2	4,327.62	1/2	4,083.76	1/2	3,833.12	1/2	3,570.47	1/2	3,279.88	1/2	2,922.01	1/2	2,564.15
3/4		3/4		3/4		3/4	4,321.89	3/4	4,078.67	3/4	3,827.77	3/4	3,564.87	3/4	3,272.42	3/4	2,914.56	3/4	2,556.69
3		3		3		3	4,316.16	3	4,073.57	3	3,822.42	3	3,559.28	3	3,264.96	3	2,907.10	3	2,549.24
1/4		1/4		1/4		1/4	4,310.43	1/4	4,068.46	1/4	3,817.06	1/4	3,553.66	1/4	3,257.51	1/4	2,899.65	1/4	2,541.78
1/2		1/2		1/2		1/2	4,304.70	1/2	4,063.34	1/2	3,811.69	1/2	3,548.04	1/2	3,250.05	1/2	2,892.19	1/2	2,534.33
3/4		3/4		3/4		3/4	4,298.97	3/4	4,058.22	3/4	3,806.33	3/4	3,542.42	3/4	3,242.60	3/4	2,884.73	3/4	2,526.87
4		4		4		4	4,293.24	4	4,053.10	4	3,800.96	4	3,536.81	4	3,235.14	4	2,877.28	4	2,519.41
1/4		1/4		1/4		1/4	4,288.35	1/4	4,047.97	1/4	3,795.57	1/4	3,531.17	1/4	3,227.69	1/4	2,869.82	1/4	2,511.96
1/2		1/2		1/2		1/2	4,283.46	1/2	4,042.83	1/2	3,790.18	1/2	3,525.53	1/2	3,220.23	1/2	2,862.37	1/2	2,504.50
3/4		3/4		3/4		3/4	4,278.58	3/4	4,037.69	3/4	3,784.80	3/4	3,519.90	3/4	3,212.78	3/4	2,854.91	3/4	2,497.05
5		5		5		5	4,273.69	5	4,032.56	5	3,779.41	5	3,514.26	5	3,205.32	5	2,847.46	5	2,489.59
1/4		1/4		1/4		1/4	4,268.78	1/4	4,027.40	1/4	3,774.00	1/4	3,508.60	1/4	3,197.87	1/4	2,840.00	1/4	2,482.14
1/2		1/2		1/2		1/2	4,263.87	1/2	4,022.24	1/2	3,768.59	1/2	3,502.94	1/2	3,190.41	1/2	2,832.55	1/2	2,474.68
3/4		3/4		3/4		3/4	4,258.96	3/4	4,017.08	3/4	3,763.18	3/4	3,497.28	3/4	3,182.95	3/4	2,825.09	3/4	2,467.23
6		6		6		6	4,254.06	6	4,011.92	6	3,757.78	6	3,491.62	6	3,175.50	6	2,817.63	6	2,459.77
1/4		1/4		1/4		1/4	4,249.12	1/4	4,006.74	1/4	3,752.35	1/4	3,485.94	1/4	3,168.04	1/4	2,810.18	1/4	2,452.32
1/2		1/2		1/2		1/2	4,244.19	1/2	4,001.56	1/2	3,746.91	1/2	3,480.26	1/2	3,160.59	1/2	2,802.72	1/2	2,444.86
3/4		3/4		3/4		3/4	4,239.26	3/4	3,996.38	3/4	3,741.48	3/4	3,474.58	3/4	3,153.13	3/4	2,795.27	3/4	2,437.40
7		7		7		7	4,234.33	7	3,991.20	7	3,736.05	7	3,468.90	7	3,145.68	7	2,787.81	7	2,429.95
1/4		1/4		1/4		1/4	4,229.38	1/4	3,986.00	1/4	3,730.60	1/4	3,463.20	1/4	3,138.22	1/4	2,780.36	1/4	2,422.49
1/2		1/2		1/2		1/2	4,224.43	1/2	3,980.80	1/2	3,725.15	1/2	3,457.50	1/2	3,130.77	1/2	2,772.90	1/2	2,415.04
3/4		3/4		3/4		3/4	4,219.48	3/4	3,975.59	3/4	3,719.70	3/4	3,451.80	3/4	3,123.31	3/4	2,765.45	3/4	2,407.58
8		8		8		8	4,214.53	8	3,970.39	8	3,714.25	8	3,446.10	8	3,115.85	8	2,757.99	8	2,400.13
1/4		1/4		1/4		1/4	4,209.56	1/4	3,965.17	1/4	3,708.78	1/4	3,440.38	1/4	3,108.40	1/4	2,750.54	1/4	2,392.67
1/2		1/2		1/2		1/2	4,204.58	1/2	3,959.95	1/2	3,703.31	1/2	3,434.66	1/2	3,100.94	1/2	2,743.08	1/2	2,385.22
3/4		3/4		3/4		3/4	4,199.61	3/4	3,954.73	3/4	3,697.83	3/4	3,428.93	3/4	3,093.49	3/4	2,735.62	3/4	2,377.76
9		9		9		9	4,194.63	9	3,949.51	9	3,692.36	9	3,423.21	9	3,086.03	9	2,728.17	9	2,370.30
1/4		1/4		1/4		1/4	4,189.64	1/4	3,944.26	1/4	3,686.87	1/4	3,417.48	1/4	3,078.58	1/4	2,720.71	1/4	2,362.85
1/2		1/2		1/2		1/2	4,184.65	1/2	3,939.02	1/2	3,681.38	1/2	3,411.75	1/2	3,071.12	1/2	2,713.26	1/2	2,355.39
3/4		3/4		3/4		3/4	4,179.66	3/4	3,933.77	3/4	3,675.89	3/4	3,406.02	3/4	3,063.67	3/4	2,705.80	3/4	2,347.94
10		10		10		10	4,174.67	10	3,928.53	10	3,670.39	10	3,400.29	10	3,056.21	10	2,698.35	10	2,340.48
1/4		1/4		1/4		1/4	4,169.65	1/4	3,923.26	1/4	3,664.88	1/4	3,394.55	1/4	3,048.76	1/4	2,690.89	1/4	2,333.03
1/2		1/2		1/2		1/2	4,164.63	1/2	3,918.00	1/2	3,659.36	1/2	3,388.82	1/2	3,041.30	1/2	2,683.44	1/2	2,325.57
3/4		3/4		3/4		3/4	4,159.61	3/4	3,912.74	3/4	3,653.84	3/4	3,383.09	3/4	3,033.84	3/4	2,675.98	3/4	2,318.12
11		11		11		11	4,395.96	11	4,154.60	11	3,907.48	11	3,648.33	11	3,377.36	11	3,026.39	11	2,668.52
1/4		1/4		1/4		1/4	4,391.30	1/4	4,149.56	1/4	3,902.19	1/4	3,642.79	1/4	3,371.63	1/4	3,018.93	1/4	2,661.07
1/2		1/2		1/2		1/2	4,386.64	1/2	4,144.53	1/2	3,896.90	1/2	3,637.26	1/2	3,365.89	1/2	3,011.48	1/2	2,653.61
3/4		3/4		3/4		3/4	4,381.98	3/4	4,139.50	3/4	3,891.61	3/4	3,631.73	3/4	3,360.16	3/4	3,004.02	3/4	2,646.16
12		12		12		12	4,377.32	12	4,134.46	12	3,886.32	12	3,626.19	12	3,354.43	12	2,996.57	12	2,638.70

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 50'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





BARGE "KIRBY 28193"

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.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,273.38	1/4	1,915.52	1/4	1,557.66	1/4	1,199.79	1/4	842.22	1/4	484.45	1/4	126.60	1/4		1/4		1/4			
1/2	2,265.93	1/2	1,908.06	1/2	1,550.20	1/2	1,192.34	1/2	834.78	1/2	477.00	1/2	119.14	1/2		1/2		1/2			
3/4	2,258.47	3/4	1,900.61	3/4	1,542.74	3/4	1,184.88	3/4	827.34	3/4	469.54	3/4	111.69	3/4		3/4		3/4			
0	2,251.02	0	1,893.15	0	1,535.29	0	1,177.42	0	819.89	0	462.09	0	104.23	0		0		0			
1/4	2,243.56	1/4	1,885.70	1/4	1,527.83	1/4	1,169.97	1/4	812.45	1/4	454.63	1/4	97.09	1/4		1/4		1/4			
1/2	2,236.11	1/2	1,878.24	1/2	1,520.38	1/2	1,162.51	1/2	805.01	1/2	447.18	1/2	89.95	1/2		1/2		1/2			
3/4	2,228.65	3/4	1,870.79	3/4	1,512.92	3/4	1,155.06	3/4	797.56	3/4	439.72	3/4	82.81	3/4		3/4		3/4			
0	2,221.19	0	1,863.33	0	1,505.47	0	1,147.60	0	790.12	0	432.26	0	75.67	0		0		0			
1/4	2,213.74	1/4	1,855.88	1/4	1,498.01	1/4	1,140.15	1/4	782.66	1/4	424.81	1/4	69.47	1/4		1/4		1/4			
1/2	2,206.28	1/2	1,848.42	1/2	1,490.56	1/2	1,132.69	1/2	775.21	1/2	417.35	1/2	63.28	1/2		1/2		1/2			
3/4	2,198.83	3/4	1,840.96	3/4	1,483.10	3/4	1,125.24	3/4	767.75	3/4	409.90	3/4	57.08	3/4		3/4		3/4			
0	2,191.37	0	1,833.51	0	1,475.64	0	1,117.78	0	760.30	0	402.44	0	50.88	0		0		0			
1/4	2,183.92	1/4	1,826.05	1/4	1,468.19	1/4	1,110.33	1/4	752.84	1/4	394.99	1/4	45.93	1/4		1/4		1/4			
1/2	2,176.46	1/2	1,818.60	1/2	1,460.73	1/2	1,102.87	1/2	745.39	1/2	387.53	1/2	40.99	1/2		1/2		1/2			
3/4	2,169.01	3/4	1,811.14	3/4	1,453.28	3/4	1,095.41	3/4	737.93	3/4	380.08	3/4	36.05	3/4		3/4		3/4			
0	2,161.55	0	1,803.69	0	1,445.82	0	1,087.96	0	730.48	0	372.62	0	31.11	0		0		0			
1/4	2,154.10	1/4	1,796.23	1/4	1,438.37	1/4	1,080.50	1/4	723.02	1/4	365.17	1/4	27.43	1/4		1/4		1/4			
1/2	2,146.64	1/2	1,788.78	1/2	1,430.91	1/2	1,073.05	1/2	715.57	1/2	357.71	1/2	23.76	1/2		1/2		1/2			
3/4	2,139.18	3/4	1,781.32	3/4	1,423.46	3/4	1,065.59	3/4	708.11	3/4	350.26	3/4	20.08	3/4		3/4		3/4			
0	2,131.73	0	1,773.86	0	1,416.00	0	1,058.14	0	700.66	0	342.80	0	16.40	0		0		0			
1/4	2,124.27	1/4	1,766.41	1/4	1,408.55	1/4	1,050.68	1/4	693.20	1/4	335.35	1/4		1/4		1/4		1/4			
1/2	2,116.82	1/2	1,758.95	1/2	1,401.09	1/2	1,043.23	1/2	685.75	1/2	327.89	1/2		1/2		1/2		1/2			
3/4	2,109.36	3/4	1,751.50	3/4	1,393.63	3/4	1,035.77	3/4	678.29	3/4	320.44	3/4		3/4		3/4		3/4			
0	2,101.91	0	1,744.04	0	1,386.18	0	1,028.31	0	670.83	0	312.98	0		0		0		0			
1/4	2,094.45	1/4	1,736.59	1/4	1,378.72	1/4	1,020.87	1/4	663.38	1/4	305.52	1/4		1/4		1/4		1/4			
1/2	2,087.00	1/2	1,729.13	1/2	1,371.27	1/2	1,013.43	1/2	655.92	1/2	298.07	1/2		1/2		1/2		1/2			
3/4	2,079.54	3/4	1,721.68	3/4	1,363.81	3/4	1,005.98	3/4	648.47	3/4	290.61	3/4		3/4		3/4		3/4			
0	2,072.08	0	1,714.22	0	1,356.36	0	998.54	0	641.01	0	283.16	0		0		0		0			
1/4	2,064.63	1/4	1,706.77	1/4	1,348.90	1/4	991.10	1/4	633.56	1/4	275.70	1/4		1/4		1/4		1/4			
1/2	2,057.17	1/2	1,699.31	1/2	1,341.45	1/2	983.65	1/2	626.10	1/2	268.25	1/2		1/2		1/2		1/2			
3/4	2,049.72	3/4	1,691.85	3/4	1,333.99	3/4	976.21	3/4	618.65	3/4	260.79	3/4		3/4		3/4		3/4			
0	2,042.26	0	1,684.40	0	1,326.53	0	968.77	0	611.19	0	253.34	0		0		0		0			
1/4	2,034.81	1/4	1,676.94	1/4	1,319.08	1/4	961.32	1/4	603.74	1/4	245.88	1/4		1/4		1/4		1/4			
1/2	2,027.35	1/2	1,669.49	1/2	1,311.62	1/2	953.88	1/2	596.28	1/2	238.43	1/2		1/2		1/2		1/2			
3/4	2,019.90	3/4	1,662.03	3/4	1,304.17	3/4	946.43	3/4	588.83	3/4	230.97	3/4		3/4		3/4		3/4			
0	2,012.44	0	1,654.58	0	1,296.71	0	938.99	0	581.37	0	223.52	0		0		0		0			
1/4	2,004.99	1/4	1,647.12	1/4	1,289.26	1/4	931.55	1/4	573.92	1/4	216.06	1/4		1/4		1/4		1/4			
1/2	1,997.53	1/2	1,639.67	1/2	1,281.80	1/2	924.10	1/2	566.46	1/2	208.61	1/2		1/2		1/2		1/2			
3/4	1,990.07	3/4	1,632.21	3/4	1,274.35	3/4	916.66	3/4	559.01	3/4	201.15	3/4		3/4		3/4		3/4			
0	1,982.62	0	1,624.75	0	1,266.89	0	909.22	0	551.55	0	193.70	0		0		0		0			
1/4	1,975.16	1/4	1,617.30	1/4	1,259.44	1/4	901.77	1/4	544.09	1/4	186.24	1/4		1/4		1/4		1/4			
1/2	1,967.71	1/2	1,609.84	1/2	1,251.98	1/2	894.33	1/2	536.64	1/2	178.78	1/2		1/2		1/2		1/2			
3/4	1,960.25	3/4	1,602.39	3/4	1,244.52	3/4	886.89	3/4	529.18	3/4	171.33	3/4		3/4		3/4		3/4			
0	1,952.80	0	1,594.93	0	1,237.07	0	879.44	0	521.73	0	163.87	0		0		0		0			
1/4	1,945.34	1/4	1,587.48	1/4	1,229.61	1/4	872.00	1/4	514.27	1/4	156.42	1/4		1/4		1/4		1/4			
1/2	1,937.89	1/2	1,580.02	1/2	1,222.16	1/2	864.56	1/2	506.82	1/2	148.96	1/2		1/2		1/2		1/2			
3/4	1,930.43	3/4	1,572.57	3/4	1,214.70	3/4	857.11	3/4	499.36	3/4	141.51	3/4		3/4		3/4		3/4			
0	1,922.97	0	1,565.11	0	1,207.25	0	849.67	0	491.91	0	134.05	0		0		0		0			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/14/2012 CL - SW
CALCULATED: 05/14/2012 CL
PRINTED: 05/14/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2012

PRECISION MEASUREMENT
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