



BARGE "KIRBY 28181"

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	01-7/8	- 01-7/8	02-1/4	- 02-1/4
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	01-7/8	- 01-7/8	02-1/4	- 02-1/4
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"

March 8, 2012

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28181"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,951.14		4,617.21		4,277.81		3,921.93		3,550.17		3,173.82		2,795.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.77	1/4	4,610.32	1/4	4,270.57	1/4	3,914.35	1/4	3,542.34	1/4	3,165.95	1/4	2,788.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.09	1/2	4,603.40	1/2	4,263.31	1/2	3,906.74	1/2	3,534.50	1/2	3,158.08	1/2	2,780.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,932.42	3/4	4,596.48	3/4	4,256.05	3/4	3,899.12	3/4	3,526.66	3/4	3,150.20	3/4	2,772.33
1	1	1	1	1	1	1	4,925.74	1	4,589.56	1	4,248.78	1	3,891.51	1	3,518.82	1	3,142.33	1	2,764.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,919.07	1/4	4,582.64	1/4	4,241.52	1/4	3,883.90	1/4	3,510.99	1/4	3,134.46	1/4	2,756.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,911.46	1/2	4,575.70	1/2	4,234.23	1/2	3,876.27	1/2	3,503.15	1/2	3,126.59	1/2	2,748.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,903.85	3/4	4,568.75	3/4	4,226.94	3/4	3,868.63	3/4	3,495.31	3/4	3,118.71	3/4	2,740.84
2	2	2	2	2	2	2	4,896.24	2	4,561.80	2	4,219.65	2	3,861.00	2	3,487.47	2	3,110.84	2	2,732.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,888.63	1/4	4,554.85	1/4	4,212.36	1/4	3,853.36	1/4	3,479.64	1/4	3,102.97	1/4	2,725.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,880.80	1/2	4,547.88	1/2	4,205.04	1/2	3,845.70	1/2	3,471.80	1/2	3,095.10	1/2	2,717.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,872.96	3/4	4,540.90	3/4	4,197.72	3/4	3,838.04	3/4	3,463.96	3/4	3,087.23	3/4	2,709.35
3	3	3	3	3	3	3	4,865.12	3	4,533.92	3	4,190.40	3	3,830.37	3	3,456.12	3	3,079.35	3	2,701.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,857.29	1/4	4,526.95	1/4	4,183.08	1/4	3,822.71	1/4	3,448.29	1/4	3,071.48	1/4	2,693.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,849.88	1/2	4,519.94	1/2	4,175.73	1/2	3,815.02	1/2	3,440.45	1/2	3,063.61	1/2	2,685.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,842.48	3/4	4,512.94	3/4	4,168.38	3/4	3,807.32	3/4	3,432.61	3/4	3,055.74	3/4	2,677.87
4	4	4	4	4	4	4	4,835.07	4	4,505.93	4	4,161.03	4	3,799.63	4	3,424.77	4	3,047.86	4	2,669.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.67	1/4	4,498.93	1/4	4,153.68	1/4	3,791.94	1/4	3,416.94	1/4	3,039.99	1/4	2,662.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,820.98	1/2	4,491.89	1/2	4,146.31	1/2	3,784.22	1/2	3,409.10	1/2	3,032.12	1/2	2,654.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,814.29	3/4	4,484.86	3/4	4,138.93	3/4	3,776.50	3/4	3,401.26	3/4	3,024.25	3/4	2,646.38
5	5	5	5	5	5	5	4,807.60	5	4,477.82	5	4,131.55	5	3,768.78	5	3,393.42	5	3,016.37	5	2,638.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,800.90	1/4	4,470.79	1/4	4,124.17	1/4	3,761.05	1/4	3,385.59	1/4	3,008.50	1/4	2,630.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,794.18	1/2	4,463.73	1/2	4,116.77	1/2	3,753.30	1/2	3,377.75	1/2	3,000.63	1/2	2,622.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,787.46	3/4	4,456.66	3/4	4,109.36	3/4	3,745.55	3/4	3,369.91	3/4	2,992.76	3/4	2,614.89
6	6	6	6	6	6	6	4,780.75	6	4,449.60	6	4,101.95	6	3,737.80	6	3,362.08	6	2,984.89	6	2,607.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,774.03	1/4	4,442.54	1/4	4,094.55	1/4	3,730.05	1/4	3,354.24	1/4	2,977.01	1/4	2,599.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,767.28	1/2	4,435.45	1/2	4,087.11	1/2	3,722.27	1/2	3,346.40	1/2	2,969.14	1/2	2,591.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,760.53	3/4	4,428.35	3/4	4,079.68	3/4	3,714.49	3/4	3,338.56	3/4	2,961.27	3/4	2,583.40
7	7	7	7	7	7	7	4,753.78	7	4,421.26	7	4,072.24	7	3,706.72	7	3,330.73	7	2,953.40	7	2,575.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,747.03	1/4	4,414.17	1/4	4,064.80	1/4	3,698.94	1/4	3,322.89	1/4	2,945.52	1/4	2,567.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,740.25	1/2	4,407.05	1/2	4,057.34	1/2	3,691.13	1/2	3,315.05	1/2	2,937.65	1/2	2,559.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,733.47	3/4	4,399.93	3/4	4,049.87	3/4	3,683.32	3/4	3,307.21	3/4	2,929.78	3/4	2,551.91
8	8	8	8	8	8	8	4,726.69	8	4,392.80	8	4,042.41	8	3,675.51	8	3,299.38	8	2,921.91	8	2,544.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,719.92	1/4	4,385.68	1/4	4,034.95	1/4	3,667.70	1/4	3,291.54	1/4	2,914.03	1/4	2,536.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,713.11	1/2	4,378.53	1/2	4,027.45	1/2	3,659.87	1/2	3,283.70	1/2	2,906.16	1/2	2,528.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,706.30	3/4	4,371.38	3/4	4,019.96	3/4	3,652.04	3/4	3,275.86	3/4	2,898.29	3/4	2,520.42
9	9	9	9	9	9	9	4,699.49	9	4,364.23	9	4,012.46	9	3,644.21	9	3,268.03	9	2,890.42	9	2,512.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,692.69	1/4	4,357.08	1/4	4,004.97	1/4	3,636.38	1/4	3,260.19	1/4	2,882.55	1/4	2,504.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685.85	1/2	4,349.90	1/2	3,997.45	1/2	3,628.55	1/2	3,252.35	1/2	2,874.67	1/2	2,496.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,679.01	3/4	4,342.72	3/4	3,989.92	3/4	3,620.71	3/4	3,244.51	3/4	2,866.80	3/4	2,488.93
10	10	10	10	10	10	10	4,672.18	10	4,335.54	10	3,982.40	10	3,612.87	10	3,236.68	10	2,858.93	10	2,481.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.34	1/4	4,328.36	1/4	3,974.88	1/4	3,605.03	1/4	3,228.84	1/4	2,851.06	1/4	2,473.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.48	1/2	4,321.15	1/2	3,967.33	1/2	3,597.20	1/2	3,220.99	1/2	2,843.18	1/2	2,465.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,651.61	3/4	4,313.94	3/4	3,959.77	3/4	3,589.36	3/4	3,213.14	3/4	2,835.31	3/4	2,457.44
11	11	11	11	11	11	11	4,644.74	11	4,306.74	11	3,952.22	11	3,581.52	11	3,205.29	11	2,827.44	11	2,449.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.88	1/4	4,299.53	1/4	3,944.67	1/4	3,573.69	1/4	3,197.44	1/4	2,819.57	1/4	2,441.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.99	1/2	4,292.29	1/2	3,937.09	1/2	3,565.85	1/2	3,189.57	1/2	2,811.69	1/2	2,433.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.10	3/4	4,285.05	3/4	3,929.51	3/4	3,558.01	3/4	3,181.69	3/4	2,803.82	3/4	2,425.95

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 28181"

1 PORT 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	
0	2,418.08	0	2,040.21	0	1,662.34	0	1,285.86	0	908.76	0	530.93	0	182.75	0		0		0	
1/4	2,410.21	1/4	2,032.34	1/4	1,654.47	1/4	1,278.04	1/4	900.89	1/4	523.07	1/4	176.12	1/4	1/4	1/4		1/4	1/4
1/2	2,402.34	1/2	2,024.46	1/2	1,646.59	1/2	1,270.21	1/2	893.02	1/2	515.26	1/2	169.61	1/2	1/2	1/2		1/2	1/2
3/4	2,394.46	3/4	2,016.59	3/4	1,638.72	3/4	1,262.39	3/4	885.15	3/4	507.44	3/4	163.09	3/4	3/4	3/4		3/4	3/4
1	2,386.59	1	2,008.72	1	1,630.85	1	1,254.57	1	877.27	1	499.63	1	156.57	1	1	1		1	1
1/4	2,378.72	1/4	2,000.85	1/4	1,622.98	1/4	1,246.74	1/4	869.40	1/4	491.82	1/4	150.06	1/4	1/4	1/4		1/4	1/4
1/2	2,370.85	1/2	1,992.98	1/2	1,615.11	1/2	1,238.92	1/2	861.53	1/2	484.09	1/2	143.66	1/2	1/2	1/2		1/2	1/2
3/4	2,362.97	3/4	1,985.10	3/4	1,607.23	3/4	1,231.10	3/4	853.66	3/4	476.37	3/4	137.26	3/4	3/4	3/4		3/4	3/4
2	2,355.10	2	1,977.23	2	1,599.36	2	1,223.28	2	845.79	2	468.65	2	130.86	2	2	2		2	2
1/4	2,347.23	1/4	1,969.36	1/4	1,591.49	1/4	1,215.45	1/4	837.91	1/4	460.93	1/4	124.46	1/4	1/4	1/4		1/4	1/4
1/2	2,339.36	1/2	1,961.49	1/2	1,583.62	1/2	1,207.63	1/2	830.04	1/2	453.32	1/2	118.18	1/2	1/2	1/2		1/2	1/2
3/4	2,331.48	3/4	1,953.61	3/4	1,575.74	3/4	1,199.81	3/4	822.17	3/4	445.70	3/4	111.90	3/4	3/4	3/4		3/4	3/4
3	2,323.61	3	1,945.74	3	1,567.87	3	1,191.98	3	814.30	3	438.09	3	105.62	3	3	3		3	3
1/4	2,315.74	1/4	1,937.87	1/4	1,560.00	1/4	1,184.16	1/4	806.43	1/4	430.48	1/4	99.34	1/4	1/4	1/4		1/4	1/4
1/2	2,307.87	1/2	1,930.00	1/2	1,552.14	1/2	1,176.32	1/2	798.55	1/2	422.98	1/2	93.19	1/2	1/2	1/2		1/2	1/2
3/4	2,300.00	3/4	1,922.12	3/4	1,544.28	3/4	1,168.48	3/4	790.68	3/4	415.47	3/4	87.04	3/4	3/4	3/4		3/4	3/4
4	2,292.12	4	1,914.25	4	1,536.42	4	1,160.64	4	782.81	4	407.97	4	80.89	4	4	4		4	4
1/4	2,284.25	1/4	1,906.38	1/4	1,528.55	1/4	1,152.80	1/4	774.94	1/4	400.47	1/4	74.74	1/4	1/4	1/4		1/4	1/4
1/2	2,276.38	1/2	1,898.51	1/2	1,520.71	1/2	1,144.93	1/2	767.06	1/2	393.07	1/2	68.73	1/2	1/2	1/2		1/2	1/2
3/4	2,268.51	3/4	1,890.64	3/4	1,512.87	3/4	1,137.05	3/4	759.19	3/4	385.68	3/4	62.72	3/4	3/4	3/4		3/4	3/4
5	2,260.63	5	1,882.76	5	1,505.03	5	1,129.18	5	751.32	5	378.29	5	56.71	5	5	5		5	5
1/4	2,252.76	1/4	1,874.89	1/4	1,497.18	1/4	1,121.31	1/4	743.45	1/4	370.89	1/4	50.70	1/4	1/4	1/4		1/4	1/4
1/2	2,244.89	1/2	1,867.02	1/2	1,489.35	1/2	1,113.44	1/2	735.58	1/2	363.61	1/2	45.29	1/2	1/2	1/2		1/2	1/2
3/4	2,237.02	3/4	1,859.15	3/4	1,481.51	3/4	1,105.57	3/4	727.70	3/4	356.32	3/4	39.87	3/4	3/4	3/4		3/4	3/4
6	2,229.14	6	1,851.27	6	1,473.67	6	1,097.69	6	719.83	6	349.04	6	34.45	6	6	6		6	6
1/4	2,221.27	1/4	1,843.40	1/4	1,465.83	1/4	1,089.82	1/4	711.96	1/4	341.76	1/4	29.04	1/4	1/4	1/4		1/4	1/4
1/2	2,213.40	1/2	1,835.53	1/2	1,458.00	1/2	1,081.95	1/2	704.09	1/2	334.58	1/2	25.07	1/2	1/2	1/2		1/2	1/2
3/4	2,205.53	3/4	1,827.66	3/4	1,450.17	3/4	1,074.08	3/4	696.22	3/4	327.41	3/4	21.11	3/4	3/4	3/4		3/4	3/4
7	2,197.66	7	1,819.78	7	1,442.34	7	1,066.20	7	688.34	7	320.23	7	17.15	7	7	7		7	7
1/4	2,189.78	1/4	1,811.91	1/4	1,434.51	1/4	1,058.33	1/4	680.47	1/4	313.06	1/4	13.18	1/4	1/4	1/4		1/4	1/4
1/2	2,181.91	1/2	1,804.04	1/2	1,426.68	1/2	1,050.46	1/2	672.60	1/2	305.99	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,174.04	3/4	1,796.17	3/4	1,418.86	3/4	1,042.59	3/4	664.73	3/4	298.93	3/4		3/4	3/4	3/4		3/4	3/4
8	2,166.17	8	1,788.30	8	1,411.03	8	1,034.72	8	656.86	8	291.86	8		8	8	8		8	8
1/4	2,158.29	1/4	1,780.42	1/4	1,403.20	1/4	1,026.84	1/4	648.98	1/4	284.80	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,150.42	1/2	1,772.55	1/2	1,395.38	1/2	1,018.97	1/2	641.11	1/2	277.84	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,142.55	3/4	1,764.68	3/4	1,387.56	3/4	1,011.10	3/4	633.24	3/4	270.88	3/4		3/4	3/4	3/4		3/4	3/4
9	2,134.68	9	1,756.81	9	1,379.73	9	1,003.23	9	625.37	9	263.93	9		9	9	9		9	9
1/4	2,126.80	1/4	1,748.93	1/4	1,371.91	1/4	995.36	1/4	617.50	1/4	256.97	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,118.93	1/2	1,741.06	1/2	1,364.09	1/2	987.48	1/2	609.62	1/2	250.12	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,111.06	3/4	1,733.19	3/4	1,356.26	3/4	979.61	3/4	601.75	3/4	243.28	3/4		3/4	3/4	3/4		3/4	3/4
10	2,103.19	10	1,725.32	10	1,348.44	10	971.74	10	593.88	10	236.43	10		10	10	10		10	10
1/4	2,095.32	1/4	1,717.45	1/4	1,340.62	1/4	963.87	1/4	586.01	1/4	229.58	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,087.44	1/2	1,709.57	1/2	1,332.80	1/2	956.00	1/2	578.13	1/2	222.85	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,079.57	3/4	1,701.70	3/4	1,324.97	3/4	948.12	3/4	570.26	3/4	216.11	3/4		3/4	3/4	3/4		3/4	3/4
11	2,071.70	11	1,693.83	11	1,317.15	11	940.25	11	562.39	11	209.37	11		11	11	11		11	11
1/4	2,063.83	1/4	1,685.96	1/4	1,309.33	1/4	932.38	1/4	554.52	1/4	202.63	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,055.95	1/2	1,678.08	1/2	1,301.50	1/2	924.51	1/2	546.66	1/2	196.01	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,048.08	3/4	1,670.21	3/4	1,293.68	3/4	916.63	3/4	538.79	3/4	189.38	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

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



BARGE "KIRBY 28181"

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
							4,952.92		4,618.98		4,279.59		3,923.70		3,551.95		3,175.60		2,797.73
1/4		1/4		1/4		1/4	4,947.54	1/4	4,612.09	1/4	4,272.35	1/4	3,916.12	1/4	3,544.11	1/4	3,167.72	1/4	2,789.85
1/2		1/2		1/2		1/2	4,940.87	1/2	4,605.17	1/2	4,265.09	1/2	3,908.51	1/2	3,536.27	1/2	3,159.85	1/2	2,781.98
3/4		3/4		3/4		3/4	4,934.19	3/4	4,598.26	3/4	4,257.82	3/4	3,900.90	3/4	3,528.44	3/4	3,151.98	3/4	2,774.11
1	1	1	1	1	1	1	4,927.52	1	4,591.34	1	4,250.56	1	3,893.29	1	3,520.60	1	3,144.11	1	2,766.24
1/4		1/4		1/4		1/4	4,920.84	1/4	4,584.42	1/4	4,243.30	1/4	3,885.68	1/4	3,512.76	1/4	3,136.24	1/4	2,758.37
1/2		1/2		1/2		1/2	4,913.23	1/2	4,577.47	1/2	4,236.01	1/2	3,878.04	1/2	3,504.92	1/2	3,128.36	1/2	2,750.49
3/4		3/4		3/4		3/4	4,905.63	3/4	4,570.52	3/4	4,228.72	3/4	3,870.41	3/4	3,497.09	3/4	3,120.49	3/4	2,742.62
2	2	2	2	2	2	2	4,898.02	2	4,563.58	2	4,221.43	2	3,862.77	2	3,489.25	2	3,112.62	2	2,734.75
1/4		1/4		1/4		1/4	4,890.41	1/4	4,556.63	1/4	4,214.14	1/4	3,855.14	1/4	3,481.41	1/4	3,104.75	1/4	2,726.88
1/2		1/2		1/2		1/2	4,882.57	1/2	4,549.65	1/2	4,206.82	1/2	3,847.48	1/2	3,473.58	1/2	3,096.87	1/2	2,719.00
3/4		3/4		3/4		3/4	4,874.74	3/4	4,542.68	3/4	4,199.50	3/4	3,839.81	3/4	3,465.74	3/4	3,089.00	3/4	2,711.13
3	3	3	3	3	3	3	4,866.90	3	4,535.70	3	4,192.17	3	3,832.15	3	3,457.90	3	3,081.13	3	2,703.26
1/4		1/4		1/4		1/4	4,859.06	1/4	4,528.72	1/4	4,184.85	1/4	3,824.49	1/4	3,450.06	1/4	3,073.26	1/4	2,695.39
1/2		1/2		1/2		1/2	4,851.66	1/2	4,521.72	1/2	4,177.51	1/2	3,816.79	1/2	3,442.23	1/2	3,065.38	1/2	2,687.51
3/4		3/4		3/4		3/4	4,844.25	3/4	4,514.71	3/4	4,170.16	3/4	3,809.10	3/4	3,434.39	3/4	3,057.51	3/4	2,679.64
4	4	4	4	4	4	4	4,836.85	4	4,507.71	4	4,162.81	4	3,801.41	4	3,426.55	4	3,049.64	4	2,671.77
1/4		1/4		1/4		1/4	4,829.45	1/4	4,500.70	1/4	4,155.46	1/4	3,793.71	1/4	3,418.71	1/4	3,041.77	1/4	2,663.90
1/2		1/2		1/2		1/2	4,822.75	1/2	4,493.67	1/2	4,148.08	1/2	3,785.99	1/2	3,410.88	1/2	3,033.90	1/2	2,656.03
3/4		3/4		3/4		3/4	4,816.06	3/4	4,486.63	3/4	4,140.70	3/4	3,778.27	3/4	3,403.04	3/4	3,026.02	3/4	2,648.15
5	5	5	5	5	5	5	4,809.37	5	4,479.60	5	4,133.33	5	3,770.55	5	3,395.20	5	3,018.15	5	2,640.28
1/4		1/4		1/4		1/4	4,802.68	1/4	4,472.57	1/4	4,125.95	1/4	3,762.83	1/4	3,387.36	1/4	3,010.28	1/4	2,632.41
1/2		1/2		1/2		1/2	4,795.96	1/2	4,465.50	1/2	4,118.54	1/2	3,755.08	1/2	3,379.53	1/2	3,002.41	1/2	2,624.54
3/4		3/4		3/4		3/4	4,789.24	3/4	4,458.44	3/4	4,111.14	3/4	3,747.33	3/4	3,371.69	3/4	2,994.53	3/4	2,616.66
6	6	6	6	6	6	6	4,782.52	6	4,451.38	6	4,103.73	6	3,739.58	6	3,363.85	6	2,986.66	6	2,608.79
1/4		1/4		1/4		1/4	4,775.80	1/4	4,444.31	1/4	4,096.32	1/4	3,731.83	1/4	3,356.01	1/4	2,978.79	1/4	2,600.92
1/2		1/2		1/2		1/2	4,769.05	1/2	4,437.22	1/2	4,088.89	1/2	3,724.05	1/2	3,348.18	1/2	2,970.92	1/2	2,593.05
3/4		3/4		3/4		3/4	4,762.30	3/4	4,430.13	3/4	4,081.45	3/4	3,716.27	3/4	3,340.34	3/4	2,963.04	3/4	2,585.17
7	7	7	7	7	7	7	4,755.55	7	4,423.04	7	4,074.02	7	3,708.49	7	3,332.50	7	2,955.17	7	2,577.30
1/4		1/4		1/4		1/4	4,748.80	1/4	4,415.95	1/4	4,066.58	1/4	3,700.71	1/4	3,324.66	1/4	2,947.30	1/4	2,569.43
1/2		1/2		1/2		1/2	4,742.03	1/2	4,408.82	1/2	4,059.12	1/2	3,692.91	1/2	3,316.83	1/2	2,939.43	1/2	2,561.56
3/4		3/4		3/4		3/4	4,735.25	3/4	4,401.70	3/4	4,051.65	3/4	3,685.10	3/4	3,308.99	3/4	2,931.56	3/4	2,553.69
8	8	8	8	8	8	8	4,728.47	8	4,394.58	8	4,044.19	8	3,677.29	8	3,301.15	8	2,923.68	8	2,545.81
1/4		1/4		1/4		1/4	4,721.69	1/4	4,387.46	1/4	4,036.72	1/4	3,669.48	1/4	3,293.32	1/4	2,915.81	1/4	2,537.94
1/2		1/2		1/2		1/2	4,714.89	1/2	4,380.31	1/2	4,029.23	1/2	3,661.65	1/2	3,285.48	1/2	2,907.94	1/2	2,530.07
3/4		3/4		3/4		3/4	4,708.08	3/4	4,373.16	3/4	4,021.73	3/4	3,653.82	3/4	3,277.64	3/4	2,900.07	3/4	2,522.20
9	9	9	9	9	9	9	4,701.27	9	4,366.01	9	4,014.24	9	3,645.99	9	3,269.80	9	2,892.19	9	2,514.32
1/4		1/4		1/4		1/4	4,694.46	1/4	4,358.86	1/4	4,006.75	1/4	3,638.16	1/4	3,261.97	1/4	2,884.32	1/4	2,506.45
1/2		1/2		1/2		1/2	4,687.63	1/2	4,351.68	1/2	3,999.22	1/2	3,630.32	1/2	3,254.13	1/2	2,876.45	1/2	2,498.58
3/4		3/4		3/4		3/4	4,680.79	3/4	4,344.50	3/4	3,991.70	3/4	3,622.49	3/4	3,246.29	3/4	2,868.58	3/4	2,490.71
10	10	10	10	10	10	10	4,673.95	10	4,337.32	10	3,984.18	10	3,614.65	10	3,238.45	10	2,860.70	10	2,482.83
1/4		1/4		1/4		1/4	4,667.12	1/4	4,330.14	1/4	3,976.66	1/4	3,606.81	1/4	3,230.62	1/4	2,852.83	1/4	2,474.96
1/2		1/2		1/2		1/2	4,660.25	1/2	4,322.93	1/2	3,969.10	1/2	3,598.97	1/2	3,222.77	1/2	2,844.96	1/2	2,467.09
3/4		3/4		3/4		3/4	4,653.39	3/4	4,315.72	3/4	3,961.55	3/4	3,591.14	3/4	3,214.91	3/4	2,837.09	3/4	2,459.22
11	11	11	11	11	11	11	4,646.52	11	4,308.51	11	3,954.00	11	3,583.30	11	3,207.06	11	2,829.22	11	2,451.35
1/4		1/4		1/4		1/4	4,639.65	1/4	4,301.30	1/4	3,946.45	1/4	3,575.46	1/4	3,199.21	1/4	2,821.34	1/4	2,443.47
1/2		1/2		1/2		1/2	4,632.76	1/2	4,294.06	1/2	3,938.86	1/2	3,567.62	1/2	3,191.34	1/2	2,813.47	1/2	2,435.60
3/4		3/4		3/4		3/4	4,958.30	3/4	4,625.87	3/4	4,286.83	3/4	3,931.28	3/4	3,559.79	3/4	3,183.47	3/4	2,427.73

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 28181"

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,419.86		2,041.99		1,664.12		1,286.24		908.67		530.93		182.75								
1/4	2,411.98	1/4	2,034.11	1/4	1,656.24	1/4	1,278.37	1/4	900.81	1/4	523.07	1/4	176.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,404.11	1/2	2,026.24	1/2	1,648.37	1/2	1,270.50	1/2	892.95	1/2	515.26	1/2	169.61	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,396.24	3/4	2,018.37	3/4	1,640.50	3/4	1,262.63	3/4	885.09	3/4	507.44	3/4	163.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,388.37	1	2,010.50	1	1,632.63	1	1,254.76	1	877.23	1	499.63	1	156.57	1	1	1	1	1	1	1	1
1/4	2,380.49	1/4	2,002.62	1/4	1,624.75	1/4	1,246.88	1/4	869.37	1/4	491.82	1/4	150.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,372.62	1/2	1,994.75	1/2	1,616.88	1/2	1,239.01	1/2	861.51	1/2	484.09	1/2	143.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,364.75	3/4	1,986.88	3/4	1,609.01	3/4	1,231.14	3/4	853.64	3/4	476.37	3/4	137.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,356.88	2	1,979.01	2	1,601.14	2	1,223.27	2	845.78	2	468.65	2	130.86	2	2	2	2	2	2	2	2
1/4	2,349.01	1/4	1,971.14	1/4	1,593.26	1/4	1,215.39	1/4	837.91	1/4	460.93	1/4	124.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,341.13	1/2	1,963.26	1/2	1,585.39	1/2	1,207.52	1/2	830.04	1/2	453.32	1/2	118.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,333.26	3/4	1,955.39	3/4	1,577.52	3/4	1,199.65	3/4	822.17	3/4	445.70	3/4	111.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,325.39	3	1,947.52	3	1,569.65	3	1,191.78	3	814.30	3	438.09	3	105.62	3	3	3	3	3	3	3	3
1/4	2,317.52	1/4	1,939.65	1/4	1,561.78	1/4	1,183.91	1/4	806.43	1/4	430.48	1/4	99.34	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,309.64	1/2	1,931.77	1/2	1,553.90	1/2	1,176.03	1/2	798.55	1/2	422.98	1/2	93.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,301.77	3/4	1,923.90	3/4	1,546.03	3/4	1,168.16	3/4	790.68	3/4	415.47	3/4	87.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,293.90	4	1,916.03	4	1,538.16	4	1,160.29	4	782.81	4	407.97	4	80.89	4	4	4	4	4	4	4	4
1/4	2,286.03	1/4	1,908.16	1/4	1,530.29	1/4	1,152.42	1/4	774.94	1/4	400.47	1/4	74.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,278.15	1/2	1,900.28	1/2	1,522.41	1/2	1,144.54	1/2	767.06	1/2	393.07	1/2	68.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,270.28	3/4	1,892.41	3/4	1,514.54	3/4	1,136.67	3/4	759.19	3/4	385.68	3/4	62.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,262.41	5	1,884.54	5	1,506.67	5	1,128.80	5	751.32	5	378.29	5	56.71	5	5	5	5	5	5	5	5
1/4	2,254.54	1/4	1,876.67	1/4	1,498.80	1/4	1,120.93	1/4	743.45	1/4	370.89	1/4	50.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,246.67	1/2	1,868.80	1/2	1,490.92	1/2	1,113.06	1/2	735.58	1/2	363.61	1/2	45.29	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,238.79	3/4	1,860.92	3/4	1,483.05	3/4	1,105.19	3/4	727.70	3/4	356.32	3/4	39.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,230.92	6	1,853.05	6	1,475.18	6	1,097.32	6	719.83	6	349.04	6	34.45	6	6	6	6	6	6	6	6
1/4	2,223.05	1/4	1,845.18	1/4	1,467.31	1/4	1,089.46	1/4	711.96	1/4	341.76	1/4	29.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,215.18	1/2	1,837.31	1/2	1,459.44	1/2	1,081.60	1/2	704.09	1/2	334.58	1/2	25.07	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,207.30	3/4	1,829.43	3/4	1,451.56	3/4	1,073.74	3/4	696.22	3/4	327.41	3/4	21.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,199.43	7	1,821.56	7	1,443.69	7	1,065.88	7	688.34	7	320.23	7	17.15	7	7	7	7	7	7	7	7
1/4	2,191.56	1/4	1,813.69	1/4	1,435.82	1/4	1,058.02	1/4	680.47	1/4	313.06	1/4	13.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,183.69	1/2	1,805.82	1/2	1,427.95	1/2	1,050.16	1/2	672.60	1/2	305.99	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,175.81	3/4	1,797.94	3/4	1,420.07	3/4	1,042.30	3/4	664.73	3/4	298.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,167.94	8	1,790.07	8	1,412.20	8	1,034.44	8	656.86	8	291.86	8		8	8	8	8	8	8	8	8
1/4	2,160.07	1/4	1,782.20	1/4	1,404.33	1/4	1,026.58	1/4	648.98	1/4	284.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,152.20	1/2	1,774.33	1/2	1,396.46	1/2	1,018.71	1/2	641.11	1/2	277.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,144.33	3/4	1,766.46	3/4	1,388.58	3/4	1,010.85	3/4	633.24	3/4	270.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,136.45	9	1,758.58	9	1,380.71	9	1,002.99	9	625.37	9	263.93	9		9	9	9	9	9	9	9	9
1/4	2,128.58	1/4	1,750.71	1/4	1,372.84	1/4	995.13	1/4	617.50	1/4	256.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,120.71	1/2	1,742.84	1/2	1,364.97	1/2	987.27	1/2	609.62	1/2	250.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,112.84	3/4	1,734.97	3/4	1,357.10	3/4	979.41	3/4	601.75	3/4	243.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,104.96	10	1,727.09	10	1,349.22	10	971.55	10	593.88	10	236.43	10		10	10	10	10	10	10	10	10
1/4	2,097.09	1/4	1,719.22	1/4	1,341.35	1/4	963.69	1/4	586.01	1/4	229.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,089.22	1/2	1,711.35	1/2	1,333.48	1/2	955.83	1/2	578.13	1/2	222.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,081.35	3/4	1,703.48	3/4	1,325.61	3/4	947.97	3/4	570.26	3/4	216.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,073.47	11	1,695.60	11	1,317.73	11	940.11	11	562.39	11	209.37	11		11	11	11	11	11	11	11	11
1/4	2,065.60	1/4	1,687.73	1/4	1,309.86	1/4	932.25	1/4	554.52	1/4	202.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,057.73	1/2	1,679.86	1/2	1,301.99	1/2	924.39	1/2	546.66	1/2	196.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,049.86	3/4	1,671.99	3/4	1,294.12	3/4	916.53	3/4	538.79	3/4	189.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

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



BARGE "KIRBY 28181"

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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,766.70	0	4,449.63	0	4,126.12	0	3,787.48	0	3,434.21	0	3,076.50	0	2,717.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,761.59	1/4	4,443.05	1/4	4,119.22	1/4	3,780.27	1/4	3,426.76	1/4	3,069.02	1/4	2,709.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,756.48	1/2	4,436.47	1/2	4,112.32	1/2	3,773.05	1/2	3,419.31	1/2	3,061.54	1/2	2,702.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,750.13	3/4	4,429.86	3/4	4,105.40	3/4	3,765.81	3/4	3,411.86	3/4	3,054.06	3/4	2,694.93
1	1	1	1	1	1	1	4,743.79	1	4,423.25	1	4,098.47	1	3,758.57	1	3,404.41	1	3,046.58	1	2,687.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,737.45	1/4	4,416.65	1/4	4,091.55	1/4	3,751.33	1/4	3,396.96	1/4	3,039.10	1/4	2,679.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.10	1/2	4,410.04	1/2	4,084.63	1/2	3,744.09	1/2	3,389.51	1/2	3,031.61	1/2	2,672.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,723.87	3/4	4,403.41	3/4	4,077.68	3/4	3,736.82	3/4	3,382.07	3/4	3,024.13	3/4	2,665.01
2	2	2	2	2	2	2	4,716.64	2	4,396.77	2	4,070.73	2	3,729.56	2	3,374.62	2	3,016.65	2	2,657.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,709.42	1/4	4,390.14	1/4	4,063.79	1/4	3,722.29	1/4	3,367.17	1/4	3,009.17	1/4	2,650.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,702.19	1/2	4,383.51	1/2	4,056.84	1/2	3,715.03	1/2	3,359.72	1/2	3,001.69	1/2	2,642.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,694.74	3/4	4,376.85	3/4	4,049.86	3/4	3,707.74	3/4	3,352.27	3/4	2,994.20	3/4	2,635.08
3	3	3	3	3	3	3	4,687.29	3	4,370.19	3	4,042.89	3	3,700.45	3	3,344.82	3	2,986.72	3	2,627.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,679.84	1/4	4,363.53	1/4	4,035.91	1/4	3,693.16	1/4	3,337.37	1/4	2,979.24	1/4	2,620.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,672.39	1/2	4,356.87	1/2	4,028.94	1/2	3,685.87	1/2	3,329.92	1/2	2,971.76	1/2	2,612.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,665.33	3/4	4,350.18	3/4	4,021.93	3/4	3,678.55	3/4	3,322.47	3/4	2,964.28	3/4	2,605.15
4	4	4	4	4	4	4	4,658.28	4	4,343.50	4	4,014.93	4	3,671.24	4	3,315.02	4	2,956.80	4	2,597.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,651.23	1/4	4,336.81	1/4	4,007.93	1/4	3,663.92	1/4	3,307.57	1/4	2,949.31	1/4	2,590.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.18	1/2	4,330.12	1/2	4,000.93	1/2	3,656.60	1/2	3,300.12	1/2	2,941.83	1/2	2,582.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,637.78	3/4	4,323.41	3/4	3,993.90	3/4	3,649.26	3/4	3,292.67	3/4	2,934.35	3/4	2,575.22
5	5	5	5	5	5	5	4,631.38	5	4,316.70	5	3,986.88	5	3,641.92	5	3,285.22	5	2,926.87	5	2,567.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,624.98	1/4	4,309.98	1/4	3,979.85	1/4	3,634.57	1/4	3,277.77	1/4	2,919.39	1/4	2,560.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,618.59	1/2	4,303.27	1/2	3,972.82	1/2	3,627.23	1/2	3,270.32	1/2	2,911.91	1/2	2,552.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,612.16	3/4	4,296.53	3/4	3,965.76	3/4	3,619.86	3/4	3,262.87	3/4	2,904.42	3/4	2,545.30
6	6	6	6	6	6	6	4,605.74	6	4,289.79	6	3,958.71	6	3,612.49	6	3,255.42	6	2,896.94	6	2,537.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.31	1/4	4,283.05	1/4	3,951.66	1/4	3,605.12	1/4	3,247.97	1/4	2,889.46	1/4	2,530.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,592.89	1/2	4,276.31	1/2	3,944.60	1/2	3,597.75	1/2	3,240.52	1/2	2,881.98	1/2	2,522.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,586.44	3/4	4,269.55	3/4	3,937.52	3/4	3,590.36	3/4	3,233.07	3/4	2,874.50	3/4	2,515.37
7	7	7	7	7	7	7	4,579.98	7	4,262.78	7	3,930.44	7	3,582.96	7	3,225.62	7	2,867.01	7	2,507.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,573.53	1/4	4,256.02	1/4	3,923.36	1/4	3,575.56	1/4	3,218.17	1/4	2,859.53	1/4	2,500.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.08	1/2	4,249.25	1/2	3,916.28	1/2	3,568.17	1/2	3,210.72	1/2	2,852.05	1/2	2,492.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,560.60	3/4	4,242.46	3/4	3,909.17	3/4	3,560.75	3/4	3,203.27	3/4	2,844.57	3/4	2,485.44
8	8	8	8	8	8	8	4,554.13	8	4,235.66	8	3,902.06	8	3,553.32	8	3,195.82	8	2,837.09	8	2,477.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,547.65	1/4	4,228.87	1/4	3,894.95	1/4	3,545.90	1/4	3,188.37	1/4	2,829.61	1/4	2,470.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,541.17	1/2	4,222.08	1/2	3,887.85	1/2	3,538.48	1/2	3,180.92	1/2	2,822.12	1/2	2,463.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,534.67	3/4	4,215.26	3/4	3,880.71	3/4	3,531.03	3/4	3,173.47	3/4	2,814.64	3/4	2,455.52
9	9	9	9	9	9	9	4,528.16	9	4,208.44	9	3,873.58	9	3,523.59	9	3,166.02	9	2,807.16	9	2,448.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.65	1/4	4,201.62	1/4	3,866.44	1/4	3,516.15	1/4	3,158.57	1/4	2,799.68	1/4	2,440.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,515.15	1/2	4,194.80	1/2	3,859.31	1/2	3,508.71	1/2	3,151.12	1/2	2,792.20	1/2	2,433.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,508.62	3/4	4,187.95	3/4	3,852.15	3/4	3,501.26	3/4	3,143.67	3/4	2,784.71	3/4	2,425.59
10	10	10	10	10	10	10	4,502.09	10	4,181.11	10	3,844.99	10	3,493.81	10	3,136.22	10	2,777.23	10	2,418.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,495.56	1/4	4,174.26	1/4	3,837.83	1/4	3,486.36	1/4	3,128.78	1/4	2,769.75	1/4	2,410.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.02	1/2	4,167.41	1/2	3,830.66	1/2	3,478.91	1/2	3,121.33	1/2	2,762.27	1/2	2,403.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,482.47	3/4	4,160.54	3/4	3,823.48	3/4	3,471.46	3/4	3,113.86	3/4	2,754.79	3/4	2,395.66
11	11	11	11	11	11	11	4,475.91	11	4,153.67	11	3,816.29	11	3,464.01	11	3,106.40	11	2,747.31	11	2,388.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,469.35	1/4	4,146.79	1/4	3,809.10	1/4	3,456.56	1/4	3,098.93	1/4	2,739.82	1/4	2,380.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,462.79	1/2	4,139.92	1/2	3,801.91	1/2	3,449.11	1/2	3,091.47	1/2	2,732.34	1/2	2,373.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,456.21	3/4	4,133.02	3/4	3,794.70	3/4	3,441.66	3/4	3,083.99	3/4	2,724.86	3/4	2,365.73

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28181"

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
1/4	2,358.25	1/4	1,999.13	1/4	1,640.00	1/4	1,289.79	1/4	944.89	1/4	587.13	1/4	228.01	1/4		1/4		1/4	
1/2	2,350.77	1/2	1,991.64	1/2	1,632.52	1/2	1,282.59	1/2	937.71	1/2	579.65	1/2	220.53	1/2		1/2		1/2	
3/4	2,343.29	3/4	1,984.16	3/4	1,625.04	3/4	1,275.39	3/4	930.53	3/4	572.17	3/4	213.05	3/4		3/4		3/4	
1	2,335.81	1	1,976.68	1	1,617.55	1	1,268.19	1	923.24	1	564.69	1	205.57	1		1		1	
1/4	2,328.32	1/4	1,969.20	1/4	1,610.07	1/4	1,260.99	1/4	915.94	1/4	557.20	1/4	198.09	1/4		1/4		1/4	
1/2	2,320.84	1/2	1,961.72	1/2	1,602.59	1/2	1,253.79	1/2	908.65	1/2	549.72	1/2	190.61	1/2		1/2		1/2	
3/4	2,313.36	3/4	1,954.23	3/4	1,595.11	3/4	1,246.59	3/4	901.36	3/4	542.24	3/4	183.13	3/4		3/4		3/4	
1	2,305.88	1	1,946.75	1	1,587.63	1	1,239.39	1	893.88	1	534.76	1	175.66	1		1		1	
1/4	2,298.40	1/4	1,939.27	1/4	1,580.14	1/4	1,232.19	1/4	886.39	1/4	527.28	1/4	168.19	1/4		1/4		1/4	
1/2	2,290.92	1/2	1,931.79	1/2	1,572.66	1/2	1,225.00	1/2	878.91	1/2	519.80	1/2	160.71	1/2		1/2		1/2	
3/4	2,283.43	3/4	1,924.31	3/4	1,565.18	3/4	1,217.80	3/4	871.43	3/4	512.31	3/4	153.24	3/4		3/4		3/4	
1	2,275.95	1	1,916.83	1	1,557.70	1	1,210.60	1	863.95	1	504.83	1	145.78	1		1		1	
1/4	2,268.47	1/4	1,909.34	1/4	1,550.22	1/4	1,203.41	1/4	856.47	1/4	497.35	1/4	138.32	1/4		1/4		1/4	
1/2	2,260.99	1/2	1,901.86	1/2	1,542.74	1/2	1,196.21	1/2	848.99	1/2	489.87	1/2	130.85	1/2		1/2		1/2	
3/4	2,253.51	3/4	1,894.38	3/4	1,535.25	3/4	1,189.02	3/4	841.50	3/4	482.39	3/4	123.39	3/4		3/4		3/4	
1	2,246.02	1	1,886.90	1	1,527.88	1	1,181.83	1	834.02	1	474.91	1	115.95	1		1		1	
1/4	2,238.54	1/4	1,879.42	1/4	1,520.50	1/4	1,174.65	1/4	826.54	1/4	467.42	1/4	108.50	1/4		1/4		1/4	
1/2	2,231.06	1/2	1,871.93	1/2	1,513.13	1/2	1,167.46	1/2	819.06	1/2	459.94	1/2	101.06	1/2		1/2		1/2	
3/4	2,223.58	3/4	1,864.45	3/4	1,505.75	3/4	1,160.28	3/4	811.58	3/4	452.46	3/4	93.62	3/4		3/4		3/4	
1	2,216.10	1	1,856.97	1	1,498.55	1	1,153.09	1	804.10	1	444.98	1	86.20	1		1		1	
1/4	2,208.62	1/4	1,849.49	1/4	1,491.35	1/4	1,145.91	1/4	796.61	1/4	437.50	1/4	78.79	1/4		1/4		1/4	
1/2	2,201.13	1/2	1,842.01	1/2	1,484.16	1/2	1,138.72	1/2	789.13	1/2	430.02	1/2	71.38	1/2		1/2		1/2	
3/4	2,193.65	3/4	1,834.53	3/4	1,476.96	3/4	1,131.54	3/4	781.65	3/4	422.53	3/4	63.97	3/4		3/4		3/4	
1	2,186.17	1	1,827.04	1	1,469.76	1	1,124.36	1	774.17	1	415.05	1	57.01	1		1		1	
1/4	2,178.69	1/4	1,819.56	1/4	1,462.56	1/4	1,117.18	1/4	766.69	1/4	407.57	1/4	50.06	1/4		1/4		1/4	
1/2	2,171.21	1/2	1,812.08	1/2	1,455.36	1/2	1,110.00	1/2	759.21	1/2	400.09	1/2	43.11	1/2		1/2		1/2	
3/4	2,163.73	3/4	1,804.60	3/4	1,448.16	3/4	1,102.83	3/4	751.73	3/4	392.61	3/4	36.15	3/4		3/4		3/4	
1	2,156.24	1	1,797.12	1	1,440.96	1	1,095.65	1	744.24	1	385.13	1	30.86	1		1		1	
1/4	2,148.76	1/4	1,789.64	1/4	1,433.76	1/4	1,088.47	1/4	736.76	1/4	377.65	1/4	25.56	1/4		1/4		1/4	
1/2	2,141.28	1/2	1,782.15	1/2	1,426.56	1/2	1,081.29	1/2	729.28	1/2	370.16	1/2	20.26	1/2		1/2		1/2	
3/4	2,133.80	3/4	1,774.67	3/4	1,419.37	3/4	1,074.11	3/4	721.80	3/4	362.68	3/4	14.97	3/4		3/4		3/4	
1	2,126.32	1	1,767.19	1	1,412.17	1	1,066.93	1	714.32	1	355.20	1		1		1		1	
1/4	2,118.83	1/4	1,759.71	1/4	1,404.97	1/4	1,059.75	1/4	706.84	1/4	347.72	1/4		1/4		1/4		1/4	
1/2	2,111.35	1/2	1,752.23	1/2	1,397.77	1/2	1,052.57	1/2	699.35	1/2	340.24	1/2		1/2		1/2		1/2	
3/4	2,103.87	3/4	1,744.74	3/4	1,390.57	3/4	1,045.39	3/4	691.87	3/4	332.76	3/4		3/4		3/4		3/4	
1	2,096.39	1	1,737.26	1	1,383.37	1	1,038.21	1	684.39	1	325.27	1		1		1		1	
1/4	2,088.91	1/4	1,729.78	1/4	1,376.17	1/4	1,031.04	1/4	676.91	1/4	317.79	1/4		1/4		1/4		1/4	
1/2	2,081.43	1/2	1,722.30	1/2	1,368.97	1/2	1,023.86	1/2	669.43	1/2	310.31	1/2		1/2		1/2		1/2	
3/4	2,073.94	3/4	1,714.82	3/4	1,361.77	3/4	1,016.68	3/4	661.95	3/4	302.83	3/4		3/4		3/4		3/4	
1	2,066.46	1	1,707.34	1	1,354.58	1	1,009.50	1	654.46	1	295.35	1		1		1		1	
1/4	2,058.98	1/4	1,699.85	1/4	1,347.38	1/4	1,002.32	1/4	646.98	1/4	287.87	1/4		1/4		1/4		1/4	
1/2	2,051.50	1/2	1,692.37	1/2	1,340.18	1/2	995.14	1/2	639.50	1/2	280.38	1/2		1/2		1/2		1/2	
3/4	2,044.02	3/4	1,684.89	3/4	1,332.98	3/4	987.96	3/4	632.02	3/4	272.90	3/4		3/4		3/4		3/4	
1	2,036.53	1	1,677.41	1	1,325.78	1	980.78	1	624.54	1	265.42	1		1		1		1	
1/4	2,029.05	1/4	1,669.93	1/4	1,318.58	1/4	973.60	1/4	617.06	1/4	257.94	1/4		1/4		1/4		1/4	
1/2	2,021.57	1/2	1,662.44	1/2	1,311.38	1/2	966.42	1/2	609.57	1/2	250.46	1/2		1/2		1/2		1/2	
3/4	2,014.09	3/4	1,654.96	3/4	1,304.18	3/4	959.25	3/4	602.09	3/4	242.98	3/4		3/4		3/4		3/4	
1	2,006.61	1	1,647.48	1	1,296.98	1	952.07	1	594.61	1	235.49	1		1		1		1	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

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



BARGE "KIRBY 28181"

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	4,788.60	0	4,469.87	0	4,145.85	0	3,806.69	0	3,452.97	0	3,095.03	0	2,735.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.49	1/4	4,463.28	1/4	4,138.94	1/4	3,799.47	1/4	3,445.52	1/4	3,087.54	1/4	2,728.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,777.14	1/2	4,456.67	1/2	4,132.01	1/2	3,792.22	1/2	3,438.06	1/2	3,080.06	1/2	2,720.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,770.79	3/4	4,450.06	3/4	4,125.09	3/4	3,784.98	3/4	3,430.61	3/4	3,072.57	3/4	2,713.22
1		1		1		1	4,443.45	1	4,118.16	1	3,777.73	1	3,423.15	1	3,065.08	1	2,705.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,758.10	1/4	4,436.84	1/4	4,111.23	1/4	3,770.49	1/4	3,415.70	1/4	3,057.60	1/4	2,698.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,750.87	1/2	4,430.20	1/2	4,104.28	1/2	3,763.22	1/2	3,408.24	1/2	3,050.11	1/2	2,690.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,743.63	3/4	4,423.57	3/4	4,097.33	3/4	3,755.95	3/4	3,400.79	3/4	3,042.63	3/4	2,683.28
2		2		2		2	4,736.40	2	4,416.93	2	4,090.38	2	3,748.68	2	3,393.34	2	3,035.14	2	2,675.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,729.16	1/4	4,410.29	1/4	4,083.43	1/4	3,741.41	1/4	3,385.88	1/4	3,027.65	1/4	2,668.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.71	1/2	4,403.63	1/2	4,076.45	1/2	3,734.12	1/2	3,378.43	1/2	3,020.17	1/2	2,660.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.26	3/4	4,396.96	3/4	4,069.47	3/4	3,726.82	3/4	3,370.97	3/4	3,012.68	3/4	2,653.33
3		3		3		3	4,706.80	3	4,390.30	3	4,062.49	3	3,719.53	3	3,363.52	3	3,005.19	3	2,645.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,699.35	1/4	4,383.64	1/4	4,055.51	1/4	3,712.24	1/4	3,356.07	1/4	2,997.71	1/4	2,638.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,692.29	1/2	4,376.95	1/2	4,048.50	1/2	3,704.91	1/2	3,348.61	1/2	2,990.22	1/2	2,630.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.23	3/4	4,370.26	3/4	4,041.50	3/4	3,697.59	3/4	3,341.16	3/4	2,982.73	3/4	2,623.39
4		4		4		4	4,678.18	4	4,363.57	4	4,034.49	4	3,690.27	4	3,333.70	4	2,975.25	4	2,615.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.12	1/4	4,356.87	1/4	4,027.49	1/4	3,682.95	1/4	3,326.25	1/4	2,967.76	1/4	2,608.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.72	1/2	4,350.16	1/2	4,020.45	1/2	3,675.60	1/2	3,318.79	1/2	2,960.28	1/2	2,600.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,658.32	3/4	4,343.44	3/4	4,013.42	3/4	3,668.25	3/4	3,311.34	3/4	2,952.79	3/4	2,593.44
5		5		5		5	4,651.92	5	4,336.73	5	4,006.39	5	3,660.91	5	3,303.89	5	2,945.30	5	2,585.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,645.51	1/4	4,330.01	1/4	3,999.36	1/4	3,653.56	1/4	3,296.43	1/4	2,937.82	1/4	2,578.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,639.09	1/2	4,323.26	1/2	3,992.30	1/2	3,646.19	1/2	3,288.98	1/2	2,930.33	1/2	2,570.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,632.66	3/4	4,316.52	3/4	3,985.24	3/4	3,638.81	3/4	3,281.52	3/4	2,922.84	3/4	2,563.50
6		6		6		6	4,626.23	6	4,309.78	6	3,978.18	6	3,631.44	6	3,274.07	6	2,915.36	6	2,556.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,619.80	1/4	4,303.03	1/4	3,971.12	1/4	3,624.06	1/4	3,266.62	1/4	2,907.87	1/4	2,548.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.34	1/2	4,296.26	1/2	3,964.04	1/2	3,616.66	1/2	3,259.16	1/2	2,900.38	1/2	2,541.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,606.89	3/4	4,289.49	3/4	3,956.95	3/4	3,609.26	3/4	3,251.71	3/4	2,892.90	3/4	2,533.55
7		7		7		7	4,600.43	7	4,282.72	7	3,949.87	7	3,601.86	7	3,244.25	7	2,885.41	7	2,526.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,593.98	1/4	4,275.95	1/4	3,942.78	1/4	3,594.46	1/4	3,236.80	1/4	2,877.92	1/4	2,518.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,587.50	1/2	4,269.16	1/2	3,935.67	1/2	3,587.03	1/2	3,229.34	1/2	2,870.44	1/2	2,511.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,581.01	3/4	4,262.36	3/4	3,928.56	3/4	3,579.61	3/4	3,221.89	3/4	2,862.95	3/4	2,503.60
8		8		8		8	4,574.53	8	4,255.56	8	3,921.44	8	3,572.18	8	3,214.44	8	2,855.47	8	2,496.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,568.05	1/4	4,248.76	1/4	3,914.33	1/4	3,564.75	1/4	3,206.98	1/4	2,847.98	1/4	2,488.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.54	1/2	4,241.94	1/2	3,907.19	1/2	3,557.30	1/2	3,199.53	1/2	2,840.49	1/2	2,481.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,555.03	3/4	4,235.12	3/4	3,900.05	3/4	3,549.86	3/4	3,192.07	3/4	2,833.01	3/4	2,473.66
9		9		9		9	4,548.52	9	4,228.29	9	3,892.92	9	3,542.41	9	3,184.62	9	2,825.52	9	2,466.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,542.01	1/4	4,221.47	1/4	3,885.78	1/4	3,534.97	1/4	3,177.16	1/4	2,818.03	1/4	2,458.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,535.48	1/2	4,214.62	1/2	3,878.61	1/2	3,527.51	1/2	3,169.71	1/2	2,810.55	1/2	2,451.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,528.94	3/4	4,207.77	3/4	3,871.45	3/4	3,520.06	3/4	3,162.26	3/4	2,803.06	3/4	2,443.71
10		10		10		10	4,522.41	10	4,200.92	10	3,864.28	10	3,512.60	10	3,154.80	10	2,795.57	10	2,436.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,515.87	1/4	4,194.07	1/4	3,857.12	1/4	3,505.15	1/4	3,147.35	1/4	2,788.09	1/4	2,428.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,509.31	1/2	4,187.19	1/2	3,849.92	1/2	3,497.70	1/2	3,139.88	1/2	2,780.60	1/2	2,421.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,502.75	3/4	4,180.31	3/4	3,842.73	3/4	3,490.24	3/4	3,132.42	3/4	2,773.12	3/4	2,413.77
11		11		11		11	4,496.19	11	4,173.44	11	3,835.54	11	3,482.79	11	3,124.95	11	2,765.63	11	2,406.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,489.62	1/4	4,166.56	1/4	3,828.34	1/4	3,475.33	1/4	3,117.49	1/4	2,758.14	1/4	2,398.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,483.04	1/2	4,159.66	1/2	3,821.13	1/2	3,467.88	1/2	3,110.00	1/2	2,750.66	1/2	2,391.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,476.45	3/4	4,152.75	3/4	3,813.91	3/4	3,460.42	3/4	3,102.52	3/4	2,743.17	3/4	2,383.82

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28181"

2 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,376.34		2,016.99		1,657.64		1,298.29		939.25		580.00		220.67								
1/4	2,368.85	1/4	2,009.50	1/4	1,650.16	1/4	1,290.81	1/4	931.77	1/4	572.51	1/4	213.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,361.36	1/2	2,002.02	1/2	1,642.67	1/2	1,283.32	1/2	924.30	1/2	565.03	1/2	205.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,353.88	3/4	1,994.53	3/4	1,635.18	3/4	1,275.84	3/4	916.82	3/4	557.54	3/4	198.21	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,346.39	1	1,987.04	1	1,627.70	1	1,268.35	1	909.35	1	550.05	1	190.73	1	1	1	1	1	1	1	1
1/4	2,338.90	1/4	1,979.56	1/4	1,620.21	1/4	1,260.86	1/4	901.87	1/4	542.57	1/4	183.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,331.42	1/2	1,972.07	1/2	1,612.72	1/2	1,253.38	1/2	894.39	1/2	535.08	1/2	175.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,323.93	3/4	1,964.58	3/4	1,605.24	3/4	1,245.89	3/4	886.92	3/4	527.59	3/4	168.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,316.44	2	1,957.10	2	1,597.75	2	1,238.40	2	879.44	2	520.11	2	160.81	2	2	2	2	2	2	2	2
1/4	2,308.96	1/4	1,949.61	1/4	1,590.26	1/4	1,230.92	1/4	871.96	1/4	512.62	1/4	153.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,301.47	1/2	1,942.12	1/2	1,582.78	1/2	1,223.43	1/2	864.47	1/2	505.14	1/2	145.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,293.99	3/4	1,934.64	3/4	1,575.29	3/4	1,215.94	3/4	856.98	3/4	497.65	3/4	138.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,286.50	3	1,927.15	3	1,567.80	3	1,208.46	3	849.50	3	490.16	3	130.93	3	3	3	3	3	3	3	3
1/4	2,279.01	1/4	1,919.67	1/4	1,560.32	1/4	1,200.97	1/4	842.01	1/4	482.68	1/4	123.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,271.53	1/2	1,912.18	1/2	1,552.83	1/2	1,193.48	1/2	834.53	1/2	475.19	1/2	116.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,264.04	3/4	1,904.69	3/4	1,545.35	3/4	1,186.00	3/4	827.04	3/4	467.71	3/4	108.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,256.55	4	1,897.21	4	1,537.86	4	1,178.51	4	819.55	4	460.22	4	101.12	4	4	4	4	4	4	4	4
1/4	2,249.07	1/4	1,889.72	1/4	1,530.37	1/4	1,171.03	1/4	812.07	1/4	452.73	1/4	93.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,241.58	1/2	1,882.23	1/2	1,522.89	1/2	1,163.54	1/2	804.58	1/2	445.25	1/2	86.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,234.09	3/4	1,874.75	3/4	1,515.40	3/4	1,156.05	3/4	797.09	3/4	437.76	3/4	78.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,226.61	5	1,867.26	5	1,507.91	5	1,148.57	5	789.61	5	430.28	5	71.42	5	5	5	5	5	5	5	5
1/4	2,219.12	1/4	1,859.77	1/4	1,500.43	1/4	1,141.08	1/4	782.12	1/4	422.79	1/4	64.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,211.64	1/2	1,852.29	1/2	1,492.94	1/2	1,133.60	1/2	774.64	1/2	415.30	1/2	57.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,204.15	3/4	1,844.80	3/4	1,485.45	3/4	1,126.12	3/4	767.15	3/4	407.82	3/4	50.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,196.66	6	1,837.32	6	1,477.97	6	1,118.63	6	759.66	6	400.33	6	43.13	6	6	6	6	6	6	6	6
1/4	2,189.18	1/4	1,829.83	1/4	1,470.48	1/4	1,111.15	1/4	752.18	1/4	392.85	1/4	36.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,181.69	1/2	1,822.34	1/2	1,463.00	1/2	1,103.68	1/2	744.69	1/2	385.36	1/2	30.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,174.20	3/4	1,814.86	3/4	1,455.51	3/4	1,096.20	3/4	737.21	3/4	377.87	3/4	25.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,166.72	7	1,807.37	7	1,448.02	7	1,088.73	7	729.72	7	370.39	7	20.27	7	7	7	7	7	7	7	7
1/4	2,159.23	1/4	1,799.88	1/4	1,440.54	1/4	1,081.26	1/4	722.23	1/4	362.90	1/4	14.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,151.74	1/2	1,792.40	1/2	1,433.05	1/2	1,073.78	1/2	714.75	1/2	355.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,144.26	3/4	1,784.91	3/4	1,425.56	3/4	1,066.31	3/4	707.26	3/4	347.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,136.77	8	1,777.42	8	1,418.08	8	1,058.83	8	699.78	8	340.44	8		8	8	8	8	8	8	8	8
1/4	2,129.28	1/4	1,769.94	1/4	1,410.59	1/4	1,051.36	1/4	692.29	1/4	332.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,121.80	1/2	1,762.45	1/2	1,403.10	1/2	1,043.88	1/2	684.80	1/2	325.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,114.31	3/4	1,754.96	3/4	1,395.62	3/4	1,036.41	3/4	677.32	3/4	317.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,106.83	9	1,747.48	9	1,388.13	9	1,028.94	9	669.83	9	310.50	9		9	9	9	9	9	9	9	9
1/4	2,099.34	1/4	1,739.99	1/4	1,380.64	1/4	1,021.46	1/4	662.34	1/4	303.01	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,091.85	1/2	1,732.51	1/2	1,373.16	1/2	1,013.99	1/2	654.86	1/2	295.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,084.37	3/4	1,725.02	3/4	1,365.67	3/4	1,006.51	3/4	647.37	3/4	288.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,076.88	10	1,717.53	10	1,358.19	10	999.04	10	639.89	10	280.55	10		10	10	10	10	10	10	10	10
1/4	2,069.39	1/4	1,710.05	1/4	1,350.70	1/4	991.57	1/4	632.40	1/4	273.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,061.91	1/2	1,702.56	1/2	1,343.21	1/2	984.09	1/2	624.91	1/2	265.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,054.42	3/4	1,695.07	3/4	1,335.73	3/4	976.62	3/4	617.43	3/4	258.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,046.93	11	1,687.59	11	1,328.24	11	969.14	11	609.94	11	250.61	11		11	11	11	11	11	11	11	11
1/4	2,039.45	1/4	1,680.10	1/4	1,320.75	1/4	961.67	1/4	602.46	1/4	243.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.96	1/2	1,672.61	1/2	1,313.27	1/2	954.19	1/2	594.97	1/2	235.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,024.48	3/4	1,665.13	3/4	1,305.78	3/4	946.72	3/4	587.48	3/4	228.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28181"

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			IN			IN			IN			IN			IN			IN			IN			IN			IN			IN					
0			0			0			0	4,352.07		0	4,110.22		0	3,863.09		0	3,603.98		0	3,333.25		0	2,977.12		0	2,620.37							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,347.91	1/4	1/4	4,105.19	1/4	1/4	3,857.81	1/4	1/4	3,598.44	1/4	1/4	3,325.82	1/4	1/4	2,969.69	1/4	1/4	2,612.94							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,343.76	1/2	1/2	4,100.16	1/2	1/2	3,852.53	1/2	1/2	3,592.90	1/2	1/2	3,318.38	1/2	1/2	2,962.26	1/2	1/2	2,605.51							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,339.60	3/4	3/4	4,095.13	3/4	3/4	3,847.24	3/4	3/4	3,587.37	3/4	3/4	3,310.95	3/4	3/4	2,954.83	3/4	3/4	2,598.08							
1		1	1		1	1		1	1	4,335.45	1	1	4,090.10	1	1	3,841.96	1	1	3,581.83	1	1	3,303.51	1	1	2,947.40	1	1	2,590.64							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,330.08	1/4	1/4	4,085.04	1/4	1/4	3,836.66	1/4	1/4	3,576.27	1/4	1/4	3,296.08	1/4	1/4	2,939.96	1/4	1/4	2,583.21							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,324.72	1/2	1/2	4,079.99	1/2	1/2	3,831.35	1/2	1/2	3,570.72	1/2	1/2	3,288.64	1/2	1/2	2,932.53	1/2	1/2	2,575.78							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,319.36	3/4	3/4	4,074.94	3/4	3/4	3,826.05	3/4	3/4	3,565.16	3/4	3/4	3,281.21	3/4	3/4	2,925.10	3/4	3/4	2,568.35							
2		2	2		2	2		2	2	4,314.00	2	2	4,069.88	2	2	3,820.75	2	2	3,559.61	2	2	3,273.77	2	2	2,917.67	2	2	2,560.92							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,308.29	1/4	1/4	4,064.81	1/4	1/4	3,815.42	1/4	1/4	3,554.04	1/4	1/4	3,266.34	1/4	1/4	2,910.23	1/4	1/4	2,553.48							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,302.58	1/2	1/2	4,059.73	1/2	1/2	3,810.10	1/2	1/2	3,548.46	1/2	1/2	3,258.90	1/2	1/2	2,902.80	1/2	1/2	2,546.05							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,296.87	3/4	3/4	4,054.66	3/4	3/4	3,804.77	3/4	3/4	3,542.89	3/4	3/4	3,251.47	3/4	3/4	2,895.37	3/4	3/4	2,538.62							
3		3	3		3	3		3	3	4,291.16	3	3	4,049.59	3	3	3,799.45	3	3	3,537.32	3	3	3,244.03	3	3	2,887.94	3	3	2,531.19							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,285.45	1/4	1/4	4,044.49	1/4	1/4	3,794.10	1/4	1/4	3,531.72	1/4	1/4	3,236.59	1/4	1/4	2,880.50	1/4	1/4	2,523.75							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,279.75	1/2	1/2	4,039.39	1/2	1/2	3,788.76	1/2	1/2	3,526.12	1/2	1/2	3,229.16	1/2	1/2	2,873.07	1/2	1/2	2,516.32							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,274.04	3/4	3/4	4,034.30	3/4	3/4	3,783.41	3/4	3/4	3,520.53	3/4	3/4	3,221.72	3/4	3/4	2,865.64	3/4	3/4	2,508.89							
4		4	4		4	4		4	4	4,268.33	4	4	4,029.20	4	4	3,778.07	4	4	3,514.93	4	4	3,214.29	4	4	2,858.21	4	4	2,501.46							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,263.46	1/4	1/4	4,024.08	1/4	1/4	3,772.70	1/4	1/4	3,509.32	1/4	1/4	3,206.88	1/4	1/4	2,850.78	1/4	1/4	2,494.02							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,258.59	1/2	1/2	4,018.97	1/2	1/2	3,767.33	1/2	1/2	3,503.70	1/2	1/2	3,199.47	1/2	1/2	2,843.34	1/2	1/2	2,486.59							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,253.72	3/4	3/4	4,013.85	3/4	3/4	3,761.96	3/4	3/4	3,498.08	3/4	3/4	3,192.06	3/4	3/4	2,835.91	3/4	3/4	2,479.16							
5		5	5		5	5		5	5	4,248.86	5	5	4,008.74	5	5	3,756.60	5	5	3,492.47	5	5	3,184.66	5	5	2,828.48	5	5	2,471.73							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,243.97	1/4	1/4	4,003.60	1/4	1/4	3,751.21	1/4	1/4	3,486.83	1/4	1/4	3,177.25	1/4	1/4	2,821.05	1/4	1/4	2,464.30							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,239.08	1/2	1/2	3,998.46	1/2	1/2	3,745.82	1/2	1/2	3,481.19	1/2	1/2	3,169.84	1/2	1/2	2,813.61	1/2	1/2	2,456.86							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,234.20	3/4	3/4	3,993.32	3/4	3/4	3,740.44	3/4	3/4	3,475.55	3/4	3/4	3,162.43	3/4	3/4	2,806.18	3/4	3/4	2,449.43							
6		6	6		6	6		6	6	4,229.31	6	6	3,988.18	6	6	3,735.05	6	6	3,469.91	6	6	3,155.02	6	6	2,798.75	6	6	2,442.00							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,224.40	1/4	1/4	3,983.03	1/4	1/4	3,729.64	1/4	1/4	3,464.26	1/4	1/4	3,147.61	1/4	1/4	2,791.32	1/4	1/4	2,434.57							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,219.49	1/2	1/2	3,977.87	1/2	1/2	3,724.23	1/2	1/2	3,458.60	1/2	1/2	3,140.20	1/2	1/2	2,783.88	1/2	1/2	2,427.13							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,214.58	3/4	3/4	3,972.71	3/4	3/4	3,718.82	3/4	3/4	3,452.94	3/4	3/4	3,132.80	3/4	3/4	2,776.45	3/4	3/4	2,419.70							
7		7	7		7	7		7	7	4,209.67	7	7	3,967.55	7	7	3,713.41	7	7	3,447.28	7	7	3,125.39	7	7	2,769.02	7	7	2,412.27							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,204.74	1/4	1/4	3,962.37	1/4	1/4	3,707.98	1/4	1/4	3,441.60	1/4	1/4	3,117.98	1/4	1/4	2,761.59	1/4	1/4	2,404.84							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,199.81	1/2	1/2	3,957.19	1/2	1/2	3,702.56	1/2	1/2	3,435.92	1/2	1/2	3,110.57	1/2	1/2	2,754.16	1/2	1/2	2,397.40							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,194.88	3/4	3/4	3,952.01	3/4	3/4	3,697.13	3/4	3/4	3,430.24	3/4	3/4	3,103.16	3/4	3/4	2,746.72	3/4	3/4	2,389.97							
8		8	8		8	8		8	8	4,189.95	8	8	3,946.83	8	8	3,691.70	8	8	3,424.56	8	8	3,095.75	8	8	2,739.29	8	8	2,382.54							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,185.00	1/4	1/4	3,941.63	1/4	1/4	3,686.25	1/4	1/4	3,418.86	1/4	1/4	3,088.35	1/4	1/4	2,731.86	1/4	1/4	2,375.11							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,180.05	1/2	1/2	3,936.43	1/2	1/2	3,680.80	1/2	1/2	3,413.16	1/2	1/2	3,080.94	1/2	1/2	2,724.43	1/2	1/2	2,367.67							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,175.09	3/4	3/4	3,931.23	3/4	3/4	3,675.34	3/4	3/4	3,407.46	3/4	3/4	3,073.53	3/4	3/4	2,716.99	3/4	3/4	2,360.24							
9		9	9		9	9		9	9	4,170.14	9	9	3,926.03	9	9	3,669.89	9	9	3,401.76	9	9	3,066.12	9	9	2,709.56	9	9	2,352.81							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,165.17	1/4	1/4	3,920.80	1/4	1/4	3,664.42	1/4	1/4	3,396.05	1/4	1/4	3,058.71	1/4	1/4	2,702.13	1/4	1/4	2,345.38							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,160.20	1/2	1/2	3,915.58	1/2	1/2	3,658.95	1/2	1/2	3,390.34	1/2	1/2	3,051.30	1/2	1/2	2,694.70	1/2	1/2	2,337.94							
3/4		3/4	3/4		3/4	3/4		3/4	3/4	4,155.23	3/4	3/4	3,910.35	3/4	3/4	3,653.48	3/4	3/4	3,384.64	3/4	3/4	3,043.90	3/4	3/4	2,687.26	3/4	3/4	2,330.51							
10		10	10		10	10		10	10	4,150.26	10	10	3,905.13	10	10	3,648.01	10	10	3,378.93	10	10	3,036.49	10	10	2,679.83	10	10	2,323.08							
1/4		1/4	1/4		1/4	1/4		1/4	1/4	4,145.26	1/4	1/4	3,899.89	1/4	1/4	3,642.51	1/4	1/4	3,373.22	1/4	1/4	3,029.08	1/4	1/4	2,672.40	1/4	1/4	2,315.65							
1/2		1/2	1/2		1/2	1/2		1/2	1/2	4,140.27																									



BARGE "KIRBY 28181"

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	2,263.62	0	1,906.39	0	1,550.20	0	1,193.82	0	848.77	0	491.43	0	133.91	0		0		0	
1/4	2,256.18	1/4	1,898.97	1/4	1,542.75	1/4	1,186.64	1/4	841.35	1/4	483.98	1/4	126.47	1/4	1/4	1/4		1/4	1/4
1/2	2,248.75	1/2	1,891.55	1/2	1,535.30	1/2	1,179.46	1/2	833.92	1/2	476.53	1/2	119.02	1/2	1/2	1/2		1/2	1/2
3/4	2,241.32	3/4	1,884.12	3/4	1,527.86	3/4	1,172.28	3/4	826.49	3/4	469.08	3/4	111.57	3/4	3/4	3/4		3/4	3/4
1	2,233.88	1	1,876.70	1	1,520.41	1	1,165.10	1	819.06	1	461.63	1	104.12	1	1	1		1	1
1/4	2,226.45	1/4	1,869.28	1/4	1,512.96	1/4	1,157.93	1/4	811.64	1/4	454.19	1/4	96.99	1/4	1/4	1/4		1/4	1/4
1/2	2,219.02	1/2	1,861.86	1/2	1,505.52	1/2	1,150.75	1/2	804.21	1/2	446.74	1/2	89.86	1/2	1/2	1/2		1/2	1/2
3/4	2,211.59	3/4	1,854.44	3/4	1,498.07	3/4	1,143.57	3/4	796.78	3/4	439.29	3/4	82.72	3/4	3/4	3/4		3/4	3/4
2	2,204.15	2	1,847.02	2	1,490.62	2	1,136.39	2	789.35	2	431.84	2	75.59	2	2	2		2	2
1/4	2,196.72	1/4	1,839.60	1/4	1,483.18	1/4	1,129.21	1/4	781.91	1/4	424.39	1/4	69.40	1/4	1/4	1/4		1/4	1/4
1/2	2,189.29	1/2	1,832.18	1/2	1,475.73	1/2	1,122.03	1/2	774.46	1/2	416.94	1/2	63.21	1/2	1/2	1/2		1/2	1/2
3/4	2,181.85	3/4	1,824.76	3/4	1,468.28	3/4	1,114.85	3/4	767.01	3/4	409.50	3/4	57.02	3/4	3/4	3/4		3/4	3/4
3	2,174.42	3	1,817.34	3	1,460.84	3	1,107.68	3	759.56	3	402.05	3	50.83	3	3	3		3	3
1/4	2,166.99	1/4	1,809.92	1/4	1,453.39	1/4	1,100.50	1/4	752.11	1/4	394.60	1/4	45.89	1/4	1/4	1/4		1/4	1/4
1/2	2,159.56	1/2	1,802.50	1/2	1,445.94	1/2	1,093.32	1/2	744.67	1/2	387.15	1/2	40.96	1/2	1/2	1/2		1/2	1/2
3/4	2,152.12	3/4	1,795.08	3/4	1,438.49	3/4	1,086.14	3/4	737.22	3/4	379.70	3/4	36.03	3/4	3/4	3/4		3/4	3/4
4	2,144.69	4	1,787.66	4	1,431.05	4	1,078.96	4	729.77	4	372.26	4	31.09	4	4	4		4	4
1/4	2,137.24	1/4	1,780.24	1/4	1,423.60	1/4	1,071.80	1/4	722.32	1/4	364.81	1/4	27.42	1/4	1/4	1/4		1/4	1/4
1/2	2,129.80	1/2	1,772.82	1/2	1,416.15	1/2	1,064.63	1/2	714.87	1/2	357.36	1/2	23.75	1/2	1/2	1/2		1/2	1/2
3/4	2,122.35	3/4	1,765.40	3/4	1,408.71	3/4	1,057.47	3/4	707.42	3/4	349.91	3/4	20.08	3/4	3/4	3/4		3/4	3/4
5	2,114.90	5	1,757.97	5	1,401.26	5	1,050.30	5	699.98	5	342.46	5	16.41	5	5	5		5	5
1/4	2,107.46	1/4	1,750.55	1/4	1,393.81	1/4	1,043.14	1/4	692.53	1/4	335.01	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,100.01	1/2	1,743.13	1/2	1,386.37	1/2	1,035.97	1/2	685.08	1/2	327.57	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,092.56	3/4	1,735.71	3/4	1,378.92	3/4	1,028.81	3/4	677.63	3/4	320.12	3/4		3/4	3/4	3/4		3/4	3/4
6	2,085.11	6	1,728.29	6	1,371.47	6	1,021.64	6	670.18	6	312.67	6		6	6	6		6	6
1/4	2,077.67	1/4	1,720.87	1/4	1,364.03	1/4	1,014.48	1/4	662.74	1/4	305.22	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,070.22	1/2	1,713.45	1/2	1,356.58	1/2	1,007.32	1/2	655.29	1/2	297.77	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,062.77	3/4	1,706.03	3/4	1,349.13	3/4	1,000.16	3/4	647.84	3/4	290.33	3/4		3/4	3/4	3/4		3/4	3/4
7	2,055.33	7	1,698.61	7	1,341.68	7	993.00	7	640.39	7	282.88	7		7	7	7		7	7
1/4	2,047.88	1/4	1,691.19	1/4	1,334.24	1/4	985.84	1/4	632.94	1/4	275.43	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,040.43	1/2	1,683.77	1/2	1,326.79	1/2	978.68	1/2	625.49	1/2	267.98	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,032.99	3/4	1,676.35	3/4	1,319.34	3/4	971.53	3/4	618.05	3/4	260.53	3/4		3/4	3/4	3/4		3/4	3/4
8	2,025.54	8	1,668.93	8	1,311.90	8	964.37	8	610.60	8	253.08	8		8	8	8		8	8
1/4	2,018.09	1/4	1,661.51	1/4	1,304.45	1/4	957.21	1/4	603.15	1/4	245.64	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,010.64	1/2	1,654.09	1/2	1,297.00	1/2	950.06	1/2	595.70	1/2	238.19	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,003.20	3/4	1,646.67	3/4	1,289.56	3/4	942.90	3/4	588.25	3/4	230.74	3/4		3/4	3/4	3/4		3/4	3/4
9	1,995.75	9	1,639.25	9	1,282.11	9	935.74	9	580.81	9	223.29	9		9	9	9		9	9
1/4	1,988.30	1/4	1,631.82	1/4	1,274.66	1/4	928.58	1/4	573.36	1/4	215.84	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,980.86	1/2	1,624.40	1/2	1,267.22	1/2	921.43	1/2	565.91	1/2	208.40	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,973.41	3/4	1,616.98	3/4	1,259.77	3/4	914.27	3/4	558.46	3/4	200.95	3/4		3/4	3/4	3/4		3/4	3/4
10	1,965.96	10	1,609.56	10	1,252.32	10	907.11	10	551.01	10	193.50	10		10	10	10		10	10
1/4	1,958.52	1/4	1,602.14	1/4	1,244.87	1/4	899.95	1/4	543.56	1/4	186.05	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,951.07	1/2	1,594.72	1/2	1,237.43	1/2	892.80	1/2	536.12	1/2	178.60	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,943.62	3/4	1,587.30	3/4	1,229.98	3/4	885.64	3/4	528.67	3/4	171.15	3/4		3/4	3/4	3/4		3/4	3/4
11	1,936.17	11	1,579.88	11	1,222.53	11	878.48	11	521.22	11	163.71	11		11	11	11		11	11
1/4	1,928.73	1/4	1,572.46	1/4	1,215.36	1/4	871.05	1/4	513.77	1/4	156.26	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,921.28	1/2	1,565.04	1/2	1,208.18	1/2	863.63	1/2	506.32	1/2	148.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,913.83	3/4	1,557.62	3/4	1,201.00	3/4	856.20	3/4	498.87	3/4	141.36	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

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



BARGE "KIRBY 28181"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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
							4,381.98		4,139.50		3,891.61		3,631.73		3,360.16		3,004.02		2,646.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,377.32	1/4	4,134.46	1/4	3,886.32	1/4	3,626.19	1/4	3,354.43	1/4	2,996.57	1/4	2,638.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,373.14	1/2	4,129.41	1/2	3,881.02	1/2	3,620.63	1/2	3,346.98	1/2	2,989.11	1/2	2,631.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,368.96	3/4	4,124.36	3/4	3,875.71	3/4	3,615.08	3/4	3,339.52	3/4	2,981.66	3/4	2,623.79		
1	1	1	1	1	1	1	4,119.31	1	3,870.41	1	3,609.52	1	3,332.06	1	2,974.20	1	2,616.34				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,360.61	1/4	4,114.25	1/4	3,865.11	1/4	3,603.96	1/4	3,324.61	1/4	2,966.74	1/4	2,608.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,355.23	1/2	4,109.18	1/2	3,859.78	1/2	3,598.38	1/2	3,317.15	1/2	2,959.29	1/2	2,601.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,349.85	3/4	4,104.10	3/4	3,854.46	3/4	3,592.81	3/4	3,309.70	3/4	2,951.83	3/4	2,593.97		
2	2	2	2	2	2	2	4,099.03	2	3,849.13	2	3,587.23	2	3,302.24	2	2,944.38	2	2,586.51				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,339.08	1/4	4,093.95	1/4	3,843.81	1/4	3,581.65	1/4	3,294.79	1/4	2,936.92	1/4	2,579.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,333.35	1/2	4,088.86	1/2	3,838.46	1/2	3,576.06	1/2	3,287.33	1/2	2,929.47	1/2	2,571.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,327.62	3/4	4,083.76	3/4	3,833.12	3/4	3,570.47	3/4	3,279.88	3/4	2,922.01	3/4	2,564.15		
3	3	3	3	3	3	3	4,078.67	3	3,827.77	3	3,564.87	3	3,272.42	3	2,914.56	3	2,556.69				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,316.16	1/4	4,073.57	1/4	3,822.42	1/4	3,559.28	1/4	3,264.96	1/4	2,907.10	1/4	2,549.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,310.43	1/2	4,068.46	1/2	3,817.06	1/2	3,553.66	1/2	3,257.51	1/2	2,899.65	1/2	2,541.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,304.70	3/4	4,063.34	3/4	3,811.69	3/4	3,548.04	3/4	3,250.05	3/4	2,892.19	3/4	2,534.33		
4	4	4	4	4	4	4	4,058.22	4	3,806.33	4	3,542.42	4	3,242.60	4	2,884.73	4	2,526.87				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,293.24	1/4	4,053.10	1/4	3,800.96	1/4	3,536.81	1/4	3,235.14	1/4	2,877.28	1/4	2,519.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,288.35	1/2	4,047.97	1/2	3,795.57	1/2	3,531.17	1/2	3,227.69	1/2	2,869.82	1/2	2,511.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,283.46	3/4	4,042.83	3/4	3,790.18	3/4	3,525.53	3/4	3,220.23	3/4	2,862.37	3/4	2,504.50		
5	5	5	5	5	5	5	4,037.69	5	3,784.80	5	3,519.90	5	3,212.78	5	2,854.91	5	2,497.05				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,273.69	1/4	4,032.56	1/4	3,779.41	1/4	3,514.26	1/4	3,205.32	1/4	2,847.46	1/4	2,489.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,268.78	1/2	4,027.40	1/2	3,774.00	1/2	3,508.60	1/2	3,197.87	1/2	2,840.00	1/2	2,482.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,263.87	3/4	4,022.24	3/4	3,768.59	3/4	3,502.94	3/4	3,190.41	3/4	2,832.55	3/4	2,474.68		
6	6	6	6	6	6	6	4,017.08	6	3,763.18	6	3,497.28	6	3,182.95	6	2,825.09	6	2,467.23				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,254.06	1/4	4,011.92	1/4	3,757.78	1/4	3,491.62	1/4	3,175.50	1/4	2,817.63	1/4	2,459.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,249.12	1/2	4,006.74	1/2	3,752.35	1/2	3,485.94	1/2	3,168.04	1/2	2,810.18	1/2	2,452.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,244.19	3/4	4,001.56	3/4	3,746.91	3/4	3,480.26	3/4	3,160.59	3/4	2,802.72	3/4	2,444.86		
7	7	7	7	7	7	7	4,005.38	7	3,741.48	7	3,474.58	7	3,153.13	7	2,795.27	7	2,437.40				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,234.33	1/4	3,991.20	1/4	3,736.05	1/4	3,468.90	1/4	3,145.68	1/4	2,787.81	1/4	2,429.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,229.38	1/2	3,986.00	1/2	3,730.60	1/2	3,463.20	1/2	3,138.22	1/2	2,780.36	1/2	2,422.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,224.43	3/4	3,980.80	3/4	3,725.15	3/4	3,457.50	3/4	3,130.77	3/4	2,772.90	3/4	2,415.04		
8	8	8	8	8	8	8	3,975.59	8	3,719.70	8	3,451.80	8	3,123.31	8	2,765.45	8	2,407.58				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,214.53	1/4	3,970.39	1/4	3,714.25	1/4	3,446.10	1/4	3,115.85	1/4	2,757.99	1/4	2,400.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,209.56	1/2	3,965.17	1/2	3,708.78	1/2	3,440.38	1/2	3,108.40	1/2	2,750.54	1/2	2,392.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,204.58	3/4	3,959.95	3/4	3,703.31	3/4	3,434.66	3/4	3,100.94	3/4	2,743.08	3/4	2,385.22		
9	9	9	9	9	9	9	3,954.73	9	3,697.83	9	3,428.93	9	3,093.49	9	2,735.62	9	2,377.76				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,194.63	1/4	3,949.51	1/4	3,692.36	1/4	3,423.21	1/4	3,086.03	1/4	2,728.17	1/4	2,370.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,189.64	1/2	3,944.26	1/2	3,686.87	1/2	3,417.48	1/2	3,078.58	1/2	2,720.71	1/2	2,362.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,184.65	3/4	3,939.02	3/4	3,681.38	3/4	3,411.75	3/4	3,071.12	3/4	2,713.26	3/4	2,355.39		
10	10	10	10	10	10	10	3,933.77	10	3,675.89	10	3,406.02	10	3,063.67	10	2,705.80	10	2,347.94				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,174.67	1/4	3,928.53	1/4	3,670.39	1/4	3,400.29	1/4	3,056.21	1/4	2,698.35	1/4	2,340.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,169.65	1/2	3,923.26	1/2	3,664.88	1/2	3,394.55	1/2	3,048.76	1/2	2,690.89	1/2	2,333.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,164.63	3/4	3,918.00	3/4	3,659.36	3/4	3,388.82	3/4	3,041.30	3/4	2,683.44	3/4	2,325.57		
11	11	11	11	11	11	11	4,159.61	11	3,912.74	11	3,653.84	11	3,383.09	11	3,033.84	11	2,675.98	11	2,318.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,395.96	1/4	4,154.60	1/4	3,907.48	1/4	3,648.33	1/4	3,377.36	1/4	2,668.52	1/4	2,310.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,391.30	1/2	4,149.56	1/2	3,902.19	1/2	3,642.79	1/2	3,371.63	1/2	2,661.07	1/2	2,303.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,386.64	3/4	4,144.53	3/4	3,896.90	3/4	3,637.26	3/4	3,365.89	3/4	2,653.61	3/4	2,295.75		

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 28181"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,288.29		1,930.43		1,572.57		1,214.70		857.11		499.36		141.51								
1/4	2,280.84	1/4	1,922.97	1/4	1,565.11	1/4	1,207.25	1/4	849.67	1/4	491.91	1/4	134.05	1/4		1/4		1/4		1/4	
1/2	2,273.38	1/2	1,915.52	1/2	1,557.66	1/2	1,199.79	1/2	842.22	1/2	484.45	1/2	126.60	1/2		1/2		1/2		1/2	
3/4	2,265.93	3/4	1,908.06	3/4	1,550.20	3/4	1,192.34	3/4	834.78	3/4	477.00	3/4	119.14	3/4		3/4		3/4		3/4	
1	2,258.47	1	1,900.61	1	1,542.74	1	1,184.88	1	827.34	1	469.54	1	111.69	1		1		1		1	
1/4	2,251.02	1/4	1,893.15	1/4	1,535.29	1/4	1,177.42	1/4	819.89	1/4	462.09	1/4	104.23	1/4		1/4		1/4		1/4	
1/2	2,243.56	1/2	1,885.70	1/2	1,527.83	1/2	1,169.97	1/2	812.45	1/2	454.63	1/2	97.09	1/2		1/2		1/2		1/2	
3/4	2,236.11	3/4	1,878.24	3/4	1,520.38	3/4	1,162.51	3/4	805.01	3/4	447.18	3/4	89.95	3/4		3/4		3/4		3/4	
2	2,228.65	2	1,870.79	2	1,512.92	2	1,155.06	2	797.56	2	439.72	2	82.81	2		2		2		2	
1/4	2,221.19	1/4	1,863.33	1/4	1,505.47	1/4	1,147.60	1/4	790.12	1/4	432.26	1/4	75.67	1/4		1/4		1/4		1/4	
1/2	2,213.74	1/2	1,855.88	1/2	1,498.01	1/2	1,140.15	1/2	782.66	1/2	424.81	1/2	69.47	1/2		1/2		1/2		1/2	
3/4	2,206.28	3/4	1,848.42	3/4	1,490.56	3/4	1,132.69	3/4	775.21	3/4	417.35	3/4	63.28	3/4		3/4		3/4		3/4	
3	2,198.83	3	1,840.96	3	1,483.10	3	1,125.24	3	767.75	3	409.90	3	57.08	3		3		3		3	
1/4	2,191.37	1/4	1,833.51	1/4	1,475.64	1/4	1,117.78	1/4	760.30	1/4	402.44	1/4	50.88	1/4		1/4		1/4		1/4	
1/2	2,183.92	1/2	1,826.05	1/2	1,468.19	1/2	1,110.33	1/2	752.84	1/2	394.99	1/2	45.99	1/2		1/2		1/2		1/2	
3/4	2,176.46	3/4	1,818.60	3/4	1,460.73	3/4	1,102.87	3/4	745.39	3/4	387.53	3/4	40.99	3/4		3/4		3/4		3/4	
4	2,169.01	4	1,811.14	4	1,453.28	4	1,095.41	4	737.93	4	380.08	4	36.05	4		4		4		4	
1/4	2,161.55	1/4	1,803.69	1/4	1,445.82	1/4	1,087.96	1/4	730.48	1/4	372.62	1/4	31.11	1/4		1/4		1/4		1/4	
1/2	2,154.10	1/2	1,796.23	1/2	1,438.37	1/2	1,080.50	1/2	723.02	1/2	365.17	1/2	27.43	1/2		1/2		1/2		1/2	
3/4	2,146.64	3/4	1,788.78	3/4	1,430.91	3/4	1,073.05	3/4	715.57	3/4	357.71	3/4	23.76	3/4		3/4		3/4		3/4	
5	2,139.18	5	1,781.32	5	1,423.46	5	1,065.59	5	708.11	5	350.26	5	20.08	5		5		5		5	
1/4	2,131.73	1/4	1,773.86	1/4	1,416.00	1/4	1,058.14	1/4	700.66	1/4	342.80	1/4	16.40	1/4		1/4		1/4		1/4	
1/2	2,124.27	1/2	1,766.41	1/2	1,408.55	1/2	1,050.68	1/2	693.20	1/2	335.35	1/2		1/2		1/2		1/2		1/2	
3/4	2,116.82	3/4	1,758.95	3/4	1,401.09	3/4	1,043.23	3/4	685.75	3/4	327.89	3/4		3/4		3/4		3/4		3/4	
6	2,109.36	6	1,751.50	6	1,393.63	6	1,035.77	6	678.29	6	320.44	6		6		6		6		6	
1/4	2,101.91	1/4	1,744.04	1/4	1,386.18	1/4	1,028.31	1/4	670.83	1/4	312.98	1/4		1/4		1/4		1/4		1/4	
1/2	2,094.45	1/2	1,736.59	1/2	1,378.72	1/2	1,020.87	1/2	663.38	1/2	305.52	1/2		1/2		1/2		1/2		1/2	
3/4	2,087.00	3/4	1,729.13	3/4	1,371.27	3/4	1,013.43	3/4	655.92	3/4	298.07	3/4		3/4		3/4		3/4		3/4	
7	2,079.54	7	1,721.68	7	1,363.81	7	1,005.98	7	648.47	7	290.61	7		7		7		7		7	
1/4	2,072.08	1/4	1,714.22	1/4	1,356.36	1/4	998.54	1/4	641.01	1/4	283.16	1/4		1/4		1/4		1/4		1/4	
1/2	2,064.63	1/2	1,706.77	1/2	1,348.90	1/2	991.10	1/2	633.56	1/2	275.70	1/2		1/2		1/2		1/2		1/2	
3/4	2,057.17	3/4	1,699.31	3/4	1,341.45	3/4	983.65	3/4	626.10	3/4	268.25	3/4		3/4		3/4		3/4		3/4	
8	2,049.72	8	1,691.85	8	1,333.99	8	976.21	8	618.65	8	260.79	8		8		8		8		8	
1/4	2,042.26	1/4	1,684.40	1/4	1,326.53	1/4	968.77	1/4	611.19	1/4	253.34	1/4		1/4		1/4		1/4		1/4	
1/2	2,034.81	1/2	1,676.94	1/2	1,319.08	1/2	961.32	1/2	603.74	1/2	245.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,027.35	3/4	1,669.49	3/4	1,311.62	3/4	953.88	3/4	596.28	3/4	238.43	3/4		3/4		3/4		3/4		3/4	
9	2,019.90	9	1,662.03	9	1,304.17	9	946.43	9	588.83	9	230.97	9		9		9		9		9	
1/4	2,012.44	1/4	1,654.58	1/4	1,296.71	1/4	938.99	1/4	581.37	1/4	223.52	1/4		1/4		1/4		1/4		1/4	
1/2	2,004.99	1/2	1,647.12	1/2	1,289.26	1/2	931.55	1/2	573.92	1/2	216.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,997.53	3/4	1,639.67	3/4	1,281.80	3/4	924.10	3/4	566.46	3/4	208.61	3/4		3/4		3/4		3/4		3/4	
10	1,990.07	10	1,632.21	10	1,274.35	10	916.66	10	559.01	10	201.15	10		10		10		10		10	
1/4	1,982.62	1/4	1,624.75	1/4	1,266.89	1/4	909.22	1/4	551.55	1/4	193.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,975.16	1/2	1,617.30	1/2	1,259.44	1/2	901.77	1/2	544.09	1/2	186.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,967.71	3/4	1,609.84	3/4	1,251.98	3/4	894.33	3/4	536.64	3/4	178.78	3/4		3/4		3/4		3/4		3/4	
11	1,960.25	11	1,602.39	11	1,244.52	11	886.89	11	529.18	11	171.33	11		11		11		11		11	
1/4	1,952.80	1/4	1,594.93	1/4	1,237.07	1/4	879.44	1/4	521.73	1/4	163.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,945.34	1/2	1,587.48	1/2	1,229.61	1/2	872.00	1/2	514.27	1/2	156.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,937.89	3/4	1,580.02	3/4	1,222.16	3/4	864.56	3/4	506.82	3/4	148.96	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/08/2012 CL - SW
CALCULATED: 03/08/2012 CL
PRINTED: 03/08/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2012

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