



# BARGE "KIRBY 28081"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-7/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/8"

LENGTH BETWEEN DRAFT MARKS: 240'-09"

August 17, 2006

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

<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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		IN	
0		0		0		0	4,836.89	0	4,511.41	0	4,178.31	0	3,821.54	0	3,455.18	0	3,088.81	0	2,722.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,831.25	1/4	4,504.72	1/4	4,171.10	1/4	3,813.91	1/4	3,447.55	1/4	3,081.18	1/4	2,714.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,825.61	1/2	4,498.03	1/2	4,163.88	1/2	3,806.28	1/2	3,439.91	1/2	3,073.55	1/2	2,707.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.78	3/4	4,491.31	3/4	4,156.63	3/4	3,798.65	3/4	3,432.28	3/4	3,065.92	3/4	2,699.55		
1		1		1		1	4,811.94	1	4,484.59	1	4,149.37	1	3,791.01	1	3,424.65	1	3,058.28	1	2,691.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.11	1/4	4,477.87	1/4	4,142.12	1/4	3,783.38	1/4	3,417.02	1/4	3,050.65	1/4	2,684.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.28	1/2	4,471.14	1/2	4,134.87	1/2	3,775.75	1/2	3,409.38	1/2	3,043.02	1/2	2,676.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,790.81	3/4	4,464.39	3/4	4,127.58	3/4	3,768.12	3/4	3,401.75	3/4	3,035.39	3/4	2,669.02		
2		2		2		2	4,783.34	2	4,457.63	2	4,120.28	2	3,760.48	2	3,394.12	2	3,027.75	2	2,661.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,775.88	1/4	4,450.87	1/4	4,112.99	1/4	3,752.85	1/4	3,386.49	1/4	3,020.12	1/4	2,653.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,768.41	1/2	4,444.11	1/2	4,105.70	1/2	3,745.22	1/2	3,378.85	1/2	3,012.49	1/2	2,646.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,760.86	3/4	4,437.32	3/4	4,098.38	3/4	3,737.59	3/4	3,371.22	3/4	3,004.86	3/4	2,638.49		
3		3		3		3	4,753.31	3	4,430.52	3	4,091.05	3	3,729.95	3	3,363.59	3	2,997.22	3	2,630.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,745.76	1/4	4,423.73	1/4	4,083.72	1/4	3,722.32	1/4	3,355.96	1/4	2,989.59	1/4	2,623.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,738.22	1/2	4,416.93	1/2	4,076.40	1/2	3,714.69	1/2	3,348.32	1/2	2,981.96	1/2	2,615.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,730.95	3/4	4,410.10	3/4	4,069.04	3/4	3,707.05	3/4	3,340.69	3/4	2,974.33	3/4	2,607.96		
4		4		4		4	4,723.68	4	4,403.27	4	4,061.68	4	3,699.42	4	3,333.06	4	2,966.69	4	2,600.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,716.41	1/4	4,396.43	1/4	4,054.32	1/4	3,691.79	1/4	3,325.42	1/4	2,959.06	1/4	2,592.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.14	1/2	4,389.60	1/2	4,046.96	1/2	3,684.16	1/2	3,317.79	1/2	2,951.43	1/2	2,585.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.42	3/4	4,382.73	3/4	4,039.57	3/4	3,676.52	3/4	3,310.16	3/4	2,943.79	3/4	2,577.43		
5		5		5		5	4,695.70	5	4,375.86	5	4,032.17	5	3,668.89	5	3,302.53	5	2,936.16	5	2,569.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,688.98	1/4	4,368.99	1/4	4,024.78	1/4	3,661.26	1/4	3,294.89	1/4	2,928.53	1/4	2,562.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,682.26	1/2	4,362.12	1/2	4,017.38	1/2	3,653.63	1/2	3,287.26	1/2	2,920.90	1/2	2,554.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,675.80	3/4	4,355.21	3/4	4,009.95	3/4	3,645.99	3/4	3,279.63	3/4	2,913.26	3/4	2,546.90		
6		6		6		6	4,669.33	6	4,348.31	6	4,002.52	6	3,638.36	6	3,272.00	6	2,905.63	6	2,539.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.86	1/4	4,341.40	1/4	3,995.09	1/4	3,630.73	1/4	3,264.36	1/4	2,898.00	1/4	2,531.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.39	1/2	4,334.49	1/2	3,987.66	1/2	3,623.10	1/2	3,256.73	1/2	2,890.37	1/2	2,524.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.89	3/4	4,327.53	3/4	3,980.19	3/4	3,615.46	3/4	3,249.10	3/4	2,882.73	3/4	2,516.37		
7		7		7		7	4,643.38	7	4,320.56	7	3,972.72	7	3,607.83	7	3,241.47	7	2,875.10	7	2,508.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,636.88	1/4	4,313.59	1/4	3,965.25	1/4	3,600.20	1/4	3,233.83	1/4	2,867.47	1/4	2,501.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.37	1/2	4,306.63	1/2	3,957.78	1/2	3,592.57	1/2	3,226.20	1/2	2,859.84	1/2	2,493.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,623.83	3/4	4,299.58	3/4	3,950.28	3/4	3,584.93	3/4	3,218.57	3/4	2,852.20	3/4	2,485.84		
8		8		8		8	4,617.29	8	4,292.54	8	3,942.77	8	3,577.30	8	3,210.94	8	2,844.57	8	2,478.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,610.74	1/4	4,285.49	1/4	3,935.26	1/4	3,569.67	1/4	3,203.30	1/4	2,836.94	1/4	2,470.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,604.20	1/2	4,278.45	1/2	3,927.76	1/2	3,562.04	1/2	3,195.67	1/2	2,829.31	1/2	2,462.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.62	3/4	4,271.34	3/4	3,920.21	3/4	3,554.40	3/4	3,188.04	3/4	2,821.67	3/4	2,455.31		
9		9		9		9	4,591.04	9	4,264.24	9	3,912.67	9	3,546.77	9	3,180.41	9	2,814.04	9	2,447.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,584.46	1/4	4,257.13	1/4	3,905.13	1/4	3,539.14	1/4	3,172.77	1/4	2,806.41	1/4	2,440.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,577.88	1/2	4,250.03	1/2	3,897.58	1/2	3,531.51	1/2	3,165.14	1/2	2,798.78	1/2	2,432.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,571.27	3/4	4,242.89	3/4	3,890.00	3/4	3,523.87	3/4	3,157.51	3/4	2,791.14	3/4	2,424.78		
10		10		10		10	4,564.65	10	4,235.75	10	3,882.42	10	3,516.24	10	3,149.88	10	2,783.51	10	2,417.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,558.03	1/4	4,228.61	1/4	3,874.84	1/4	3,508.61	1/4	3,142.24	1/4	2,775.88	1/4	2,409.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,551.41	1/2	4,221.46	1/2	3,867.26	1/2	3,500.97	1/2	3,134.61	1/2	2,768.25	1/2	2,401.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.76	3/4	4,214.28	3/4	3,859.64	3/4	3,493.34	3/4	3,126.98	3/4	2,760.61	3/4	2,394.25		
11		11		11		11	4,538.10	11	4,207.11	11	3,852.03	11	3,485.71	11	3,119.34	11	2,752.98	11	2,386.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.45	1/4	4,199.93	1/4	3,844.42	1/4	3,478.08	1/4	3,111.71	1/4	2,745.35	1/4	2,378.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,524.79	1/2	4,192.75	1/2	3,836.81	1/2	3,470.44	1/2	3,104.08	1/2	2,737.71	1/2	2,371.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.10	3/4	4,185.53	3/4	3,829.17	3/4	3,462.81	3/4	3,096.45	3/4	2,730.08	3/4	2,363.72		

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'-10" OFF CENTERLINE AND 52'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

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<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	2,356.08	0	1,989.72	0	1,623.34	0	1,257.62	0	893.40	0	527.34	0	181.55	0		0		0	
1/4	2,348.45	1/4	1,982.09	1/4	1,615.71	1/4	1,249.98	1/4	885.83	1/4	519.71	1/4	174.85	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,340.82	1/2	1,974.46	1/2	1,608.08	1/2	1,242.35	1/2	878.25	1/2	512.07	1/2	168.15	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,333.19	3/4	1,966.82	3/4	1,600.44	3/4	1,234.71	3/4	870.66	3/4	504.46	3/4	161.54	3/4	3/4	3/4	3/4	3/4	3/4
1	2,325.55	1	1,959.19	1	1,592.81	1	1,227.08	1	863.07	1	496.85	1	154.92	1		1		1	
1/4	2,317.92	1/4	1,951.56	1/4	1,585.18	1/4	1,219.45	1/4	855.47	1/4	489.24	1/4	148.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,310.29	1/2	1,943.92	1/2	1,577.54	1/2	1,211.81	1/2	847.88	1/2	481.62	1/2	141.70	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,302.66	3/4	1,936.29	3/4	1,569.91	3/4	1,204.20	3/4	840.26	3/4	474.07	3/4	135.18	3/4	3/4	3/4	3/4	3/4	3/4
2	2,295.02	2	1,928.66	2	1,562.28	2	1,196.58	2	832.64	2	466.53	2	128.66	2		2		2	
1/4	2,287.39	1/4	1,921.03	1/4	1,554.65	1/4	1,188.96	1/4	825.03	1/4	458.98	1/4	122.14	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,279.76	1/2	1,913.39	1/2	1,547.01	1/2	1,181.34	1/2	817.41	1/2	451.43	1/2	115.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,272.13	3/4	1,905.76	3/4	1,539.38	3/4	1,173.75	3/4	809.77	3/4	443.96	3/4	109.19	3/4	3/4	3/4	3/4	3/4	3/4
3	2,264.49	3	1,898.13	3	1,531.75	3	1,166.16	3	802.14	3	436.50	3	102.77	3		3		3	
1/4	2,256.86	1/4	1,890.49	1/4	1,524.11	1/4	1,158.56	1/4	794.51	1/4	429.04	1/4	96.34	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,249.23	1/2	1,882.86	1/2	1,516.48	1/2	1,150.97	1/2	786.87	1/2	421.57	1/2	89.92	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,241.60	3/4	1,875.23	3/4	1,508.85	3/4	1,143.39	3/4	779.24	3/4	414.19	3/4	83.60	3/4	3/4	3/4	3/4	3/4	3/4
4	2,233.96	4	1,867.59	4	1,501.22	4	1,135.82	4	771.61	4	406.81	4	77.28	4		4		4	
1/4	2,226.33	1/4	1,859.96	1/4	1,493.58	1/4	1,128.24	1/4	763.97	1/4	399.44	1/4	70.96	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,218.70	1/2	1,852.33	1/2	1,485.95	1/2	1,120.66	1/2	756.34	1/2	392.06	1/2	64.64	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,211.07	3/4	1,844.70	3/4	1,478.33	3/4	1,113.09	3/4	748.71	3/4	384.76	3/4	58.44	3/4	3/4	3/4	3/4	3/4	3/4
5	2,203.43	5	1,837.06	5	1,470.71	5	1,105.51	5	741.08	5	377.47	5	52.24	5		5		5	
1/4	2,195.80	1/4	1,829.43	1/4	1,463.09	1/4	1,097.94	1/4	733.44	1/4	370.17	1/4	46.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,188.17	1/2	1,821.80	1/2	1,455.47	1/2	1,090.36	1/2	725.81	1/2	362.88	1/2	39.84	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,180.53	3/4	1,814.16	3/4	1,447.87	3/4	1,082.79	3/4	718.18	3/4	355.67	3/4	34.34	3/4	3/4	3/4	3/4	3/4	3/4
6	2,172.90	6	1,806.53	6	1,440.26	6	1,075.21	6	710.54	6	348.46	6	28.83	6		6		6	
1/4	2,165.27	1/4	1,798.90	1/4	1,432.66	1/4	1,067.64	1/4	702.91	1/4	341.25	1/4	23.33	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,157.64	1/2	1,791.27	1/2	1,425.05	1/2	1,060.06	1/2	695.28	1/2	334.04	1/2	17.82	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,150.00	3/4	1,783.63	3/4	1,417.45	3/4	1,052.49	3/4	687.64	3/4	326.92	3/4	14.27	3/4	3/4	3/4	3/4	3/4	3/4
7	2,142.37	7	1,776.00	7	1,409.84	7	1,044.91	7	680.01	7	319.79	7	10.71	7		7		7	
1/4	2,134.74	1/4	1,768.37	1/4	1,402.24	1/4	1,037.34	1/4	672.38	1/4	312.67	1/4	7.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,127.11	1/2	1,760.73	1/2	1,394.63	1/2	1,029.76	1/2	664.74	1/2	305.54	1/2	3.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,119.47	3/4	1,753.10	3/4	1,387.03	3/4	1,022.19	3/4	657.11	3/4	298.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,111.84	8	1,745.47	8	1,379.42	8	1,014.61	8	649.48	8	291.46	8		8		8		8	
1/4	2,104.21	1/4	1,737.84	1/4	1,371.81	1/4	1,007.03	1/4	641.84	1/4	284.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,096.58	1/2	1,730.20	1/2	1,364.21	1/2	999.46	1/2	634.21	1/2	277.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,088.94	3/4	1,722.57	3/4	1,356.60	3/4	991.88	3/4	626.58	3/4	270.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,081.31	9	1,714.94	9	1,349.00	9	984.31	9	618.94	9	263.48	9		9		9		9	
1/4	2,073.68	1/4	1,707.30	1/4	1,341.39	1/4	976.73	1/4	611.31	1/4	256.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,066.05	1/2	1,699.67	1/2	1,333.79	1/2	969.16	1/2	603.68	1/2	249.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,058.41	3/4	1,692.04	3/4	1,326.18	3/4	961.58	3/4	596.04	3/4	242.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,050.78	10	1,684.41	10	1,318.57	10	954.01	10	588.41	10	235.83	10		10		10		10	
1/4	2,043.15	1/4	1,676.77	1/4	1,310.97	1/4	946.43	1/4	580.78	1/4	228.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,035.52	1/2	1,669.14	1/2	1,303.36	1/2	938.86	1/2	573.14	1/2	222.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,027.88	3/4	1,661.51	3/4	1,295.74	3/4	931.28	3/4	565.51	3/4	215.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,020.25	11	1,653.87	11	1,288.12	11	923.71	11	557.87	11	208.52	11		11		11		11	
1/4	2,012.62	1/4	1,646.24	1/4	1,280.50	1/4	916.13	1/4	550.24	1/4	201.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,004.99	1/2	1,638.61	1/2	1,272.88	1/2	908.56	1/2	542.61	1/2	194.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,997.35	3/4	1,630.98	3/4	1,265.25	3/4	900.98	3/4	534.97	3/4	188.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28081"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,520.57	0	4,187.92	0	3,831.48	0	3,465.02	0	3,098.57	0	2,732.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,513.87	1/4	4,180.70	1/4	3,823.84	1/4	3,457.39	1/4	3,090.94	1/4	2,724.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,507.18	1/2	4,173.48	1/2	3,816.21	1/2	3,449.75	1/2	3,083.30	1/2	2,716.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,828.14	3/4	4,500.49	3/4	4,166.26	3/4	3,808.57	3/4	3,442.12	3/4	3,075.67	3/4	2,709.22
1		1		1		1		1	4,821.30	1	4,493.77	1	4,159.01	1	3,800.94	1	3,434.48	1	3,068.03	1	2,701.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,814.47	1/4	4,487.04	1/4	4,151.75	1/4	3,793.30	1/4	3,426.85	1/4	3,060.40	1/4	2,693.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,807.64	1/2	4,480.32	1/2	4,144.50	1/2	3,785.67	1/2	3,419.22	1/2	3,052.76	1/2	2,686.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,800.80	3/4	4,473.60	3/4	4,137.24	3/4	3,778.03	3/4	3,411.58	3/4	3,045.13	3/4	2,678.68
2		2		2		2		2	4,793.33	2	4,466.84	2	4,129.95	2	3,770.40	2	3,403.95	2	3,037.50	2	2,671.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.86	1/4	4,460.08	1/4	4,122.66	1/4	3,762.76	1/4	3,396.31	1/4	3,029.86	1/4	2,663.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.40	1/2	4,453.32	1/2	4,115.36	1/2	3,755.13	1/2	3,388.68	1/2	3,022.23	1/2	2,655.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,770.93	3/4	4,446.56	3/4	4,108.07	3/4	3,747.50	3/4	3,381.04	3/4	3,014.59	3/4	2,648.14
3		3		3		3		3	4,763.38	3	4,439.76	3	4,100.74	3	3,739.86	3	3,373.41	3	3,006.96	3	2,640.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,755.83	1/4	4,432.96	1/4	4,093.41	1/4	3,732.23	1/4	3,365.78	1/4	2,999.32	1/4	2,632.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,748.28	1/2	4,426.17	1/2	4,086.09	1/2	3,724.59	1/2	3,358.14	1/2	2,991.69	1/2	2,625.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,740.73	3/4	4,419.37	3/4	4,078.76	3/4	3,716.96	3/4	3,350.51	3/4	2,984.06	3/4	2,617.60
4		4		4		4		4	4,733.46	4	4,412.54	4	4,071.40	4	3,709.32	4	3,342.87	4	2,976.42	4	2,609.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,726.19	1/4	4,405.70	1/4	4,064.04	1/4	3,701.69	1/4	3,335.24	1/4	2,968.79	1/4	2,602.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.92	1/2	4,398.87	1/2	4,056.68	1/2	3,694.05	1/2	3,327.60	1/2	2,961.15	1/2	2,594.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,711.64	3/4	4,392.03	3/4	4,049.32	3/4	3,686.42	3/4	3,319.97	3/4	2,953.52	3/4	2,587.07
5		5		5		5		5	4,704.92	5	4,385.16	5	4,041.92	5	3,678.79	5	3,312.33	5	2,945.88	5	2,579.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,698.20	1/4	4,378.29	1/4	4,034.52	1/4	3,671.15	1/4	3,304.70	1/4	2,938.25	1/4	2,571.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,691.48	1/2	4,371.42	1/2	4,027.13	1/2	3,663.52	1/2	3,297.07	1/2	2,930.61	1/2	2,564.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.76	3/4	4,364.55	3/4	4,019.73	3/4	3,655.88	3/4	3,289.43	3/4	2,922.98	3/4	2,556.53
6		6		6		6		6	4,678.29	6	4,357.64	6	4,012.30	6	3,648.25	6	3,281.80	6	2,915.35	6	2,548.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.82	1/4	4,350.73	1/4	4,004.87	1/4	3,640.61	1/4	3,274.16	1/4	2,907.71	1/4	2,541.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,665.36	1/2	4,343.82	1/2	3,997.43	1/2	3,632.98	1/2	3,266.53	1/2	2,900.08	1/2	2,533.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,658.89	3/4	4,336.91	3/4	3,990.00	3/4	3,625.34	3/4	3,258.89	3/4	2,892.44	3/4	2,525.99
7		7		7		7		7	4,652.38	7	4,329.95	7	3,982.53	7	3,617.71	7	3,251.26	7	2,884.81	7	2,518.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,645.87	1/4	4,322.98	1/4	3,975.06	1/4	3,610.08	1/4	3,243.62	1/4	2,877.17	1/4	2,510.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,639.37	1/2	4,316.01	1/2	3,967.59	1/2	3,602.44	1/2	3,235.99	1/2	2,869.54	1/2	2,503.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,632.86	3/4	4,309.04	3/4	3,960.12	3/4	3,594.81	3/4	3,228.36	3/4	2,861.90	3/4	2,495.45
8		8		8		8		8	4,626.32	8	4,302.00	8	3,952.61	8	3,587.17	8	3,220.72	8	2,854.27	8	2,487.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,619.77	1/4	4,294.95	1/4	3,945.10	1/4	3,579.54	1/4	3,213.09	1/4	2,846.64	1/4	2,480.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.23	1/2	4,287.90	1/2	3,937.59	1/2	3,571.90	1/2	3,205.45	1/2	2,839.00	1/2	2,472.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,606.68	3/4	4,280.85	3/4	3,930.08	3/4	3,564.27	3/4	3,197.82	3/4	2,831.37	3/4	2,464.92
9		9		9		9		9	4,600.10	9	4,273.75	9	3,922.54	9	3,556.64	9	3,190.18	9	2,823.73	9	2,457.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,593.52	1/4	4,266.64	1/4	3,914.99	1/4	3,549.00	1/4	3,182.55	1/4	2,816.10	1/4	2,449.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,586.94	1/2	4,259.54	1/2	3,907.45	1/2	3,541.37	1/2	3,174.92	1/2	2,808.46	1/2	2,442.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,580.36	3/4	4,252.43	3/4	3,899.90	3/4	3,533.73	3/4	3,167.28	3/4	2,800.83	3/4	2,434.38
10		10		10		10		10	4,573.74	10	4,245.29	10	3,892.32	10	3,526.10	10	3,159.65	10	2,793.20	10	2,426.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,567.12	1/4	4,238.14	1/4	3,884.74	1/4	3,518.46	1/4	3,152.01	1/4	2,785.56	1/4	2,419.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,560.50	1/2	4,231.00	1/2	3,877.15	1/2	3,510.83	1/2	3,144.38	1/2	2,777.93	1/2	2,411.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,553.88	3/4	4,223.86	3/4	3,869.57	3/4	3,503.19	3/4	3,136.74	3/4	2,770.29	3/4	2,403.84
11		11		11		11		11	4,547.23	11	4,216.68	11	3,861.95	11	3,495.56	11	3,129.11	11	2,762.66	11	2,396.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.57	1/4	4,209.50	1/4	3,854.34	1/4	3,487.93	1/4	3,121.47	1/4	2,755.02	1/4	2,388.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.91	1/2	4,202.32	1/2	3,846.73	1/2	3,480.29	1/2	3,113.84	1/2	2,747.39	1/2	2,380.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,527.26	3/4	4,195.14	3/4	3,839.11	3/4	3,472.66	3/4	3,106.21	3/4	2,739.75	3/4	2,373.30

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'-10" OFF CENTERLINE AND 52'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,365.67	0	1,999.22	0	1,632.75	0	1,266.94	0	901.45	0	535.09	0	188.29	0		0		0	
1/4	2,358.03	1/4	1,991.59	1/4	1,625.12	1/4	1,259.30	1/4	893.84	1/4	527.46	1/4	181.58	1/4		1/4		1/4	
1/2	2,350.40	1/2	1,983.95	1/2	1,617.48	1/2	1,251.67	1/2	886.23	1/2	519.82	1/2	174.88	1/2		1/2		1/2	
3/4	2,342.77	3/4	1,976.32	3/4	1,609.85	3/4	1,244.03	3/4	878.62	3/4	512.19	3/4	168.18	3/4		3/4		3/4	
1	2,335.13	1	1,968.68	1	1,602.21	1	1,236.40	1	871.00	1	504.57	1	161.57	1		1		1	
1/4	2,327.50	1/4	1,961.05	1/4	1,594.58	1/4	1,228.76	1/4	863.38	1/4	496.96	1/4	154.95	1/4		1/4		1/4	
1/2	2,319.86	1/2	1,953.42	1/2	1,586.94	1/2	1,221.13	1/2	855.76	1/2	489.34	1/2	148.34	1/2		1/2		1/2	
3/4	2,312.23	3/4	1,945.78	3/4	1,579.31	3/4	1,213.49	3/4	848.13	3/4	481.73	3/4	141.73	3/4		3/4		3/4	
2	2,304.59	2	1,938.15	2	1,571.68	2	1,205.86	2	840.50	2	474.18	2	135.20	2		2		2	
1/4	2,296.96	1/4	1,930.51	1/4	1,564.04	1/4	1,198.22	1/4	832.86	1/4	466.63	1/4	128.68	1/4		1/4		1/4	
1/2	2,289.32	1/2	1,922.88	1/2	1,556.41	1/2	1,190.59	1/2	825.23	1/2	459.08	1/2	122.16	1/2		1/2		1/2	
3/4	2,281.69	3/4	1,915.24	3/4	1,548.77	3/4	1,182.95	3/4	817.59	3/4	451.53	3/4	115.64	3/4		3/4		3/4	
3	2,274.06	3	1,907.61	3	1,541.14	3	1,175.33	3	809.96	3	444.06	3	109.21	3		3		3	
1/4	2,266.42	1/4	1,899.97	1/4	1,533.50	1/4	1,167.70	1/4	802.32	1/4	436.60	1/4	102.79	1/4		1/4		1/4	
1/2	2,258.79	1/2	1,892.34	1/2	1,525.87	1/2	1,160.08	1/2	794.69	1/2	429.13	1/2	96.36	1/2		1/2		1/2	
3/4	2,251.15	3/4	1,884.70	3/4	1,518.23	3/4	1,152.46	3/4	787.05	3/4	421.67	3/4	89.94	3/4		3/4		3/4	
4	2,243.52	4	1,877.07	4	1,510.60	4	1,144.85	4	779.42	4	414.28	4	83.62	4		4		4	
1/4	2,235.88	1/4	1,869.43	1/4	1,502.96	1/4	1,137.24	1/4	771.78	1/4	406.90	1/4	77.30	1/4		1/4		1/4	
1/2	2,228.25	1/2	1,861.80	1/2	1,495.33	1/2	1,129.64	1/2	764.15	1/2	399.52	1/2	70.98	1/2		1/2		1/2	
3/4	2,220.62	3/4	1,854.16	3/4	1,487.69	3/4	1,122.03	3/4	756.51	3/4	392.14	3/4	64.66	3/4		3/4		3/4	
5	2,212.98	5	1,846.53	5	1,480.07	5	1,114.42	5	748.88	5	384.85	5	58.45	5		5		5	
1/4	2,205.35	1/4	1,838.89	1/4	1,472.45	1/4	1,106.82	1/4	741.24	1/4	377.55	1/4	52.25	1/4		1/4		1/4	
1/2	2,197.71	1/2	1,831.26	1/2	1,464.83	1/2	1,099.21	1/2	733.61	1/2	370.25	1/2	46.05	1/2		1/2		1/2	
3/4	2,190.08	3/4	1,823.62	3/4	1,457.21	3/4	1,091.60	3/4	725.97	3/4	362.96	3/4	39.85	3/4		3/4		3/4	
6	2,182.44	6	1,815.99	6	1,449.60	6	1,084.00	6	718.34	6	355.75	6	34.34	6		6		6	
1/4	2,174.81	1/4	1,808.35	1/4	1,441.99	1/4	1,076.39	1/4	710.70	1/4	348.54	1/4	28.84	1/4		1/4		1/4	
1/2	2,167.17	1/2	1,800.72	1/2	1,434.39	1/2	1,068.79	1/2	703.07	1/2	341.33	1/2	23.33	1/2		1/2		1/2	
3/4	2,159.54	3/4	1,793.08	3/4	1,426.78	3/4	1,061.18	3/4	695.43	3/4	334.11	3/4	17.83	3/4		3/4		3/4	
7	2,151.91	7	1,785.45	7	1,419.17	7	1,053.57	7	687.80	7	326.99	7	14.27	7		7		7	
1/4	2,144.27	1/4	1,777.81	1/4	1,411.57	1/4	1,045.97	1/4	680.16	1/4	319.86	1/4	10.71	1/4		1/4		1/4	
1/2	2,136.64	1/2	1,770.18	1/2	1,403.96	1/2	1,038.36	1/2	672.53	1/2	312.74	1/2	7.15	1/2		1/2		1/2	
3/4	2,129.00	3/4	1,762.55	3/4	1,396.35	3/4	1,030.75	3/4	664.89	3/4	305.61	3/4	3.59	3/4		3/4		3/4	
8	2,121.37	8	1,754.91	8	1,388.74	8	1,023.15	8	657.26	8	298.57	8		8		8		8	
1/4	2,113.73	1/4	1,747.28	1/4	1,381.14	1/4	1,015.54	1/4	649.62	1/4	291.53	1/4		1/4		1/4		1/4	
1/2	2,106.10	1/2	1,739.64	1/2	1,373.53	1/2	1,007.94	1/2	641.99	1/2	284.49	1/2		1/2		1/2		1/2	
3/4	2,098.46	3/4	1,732.01	3/4	1,365.92	3/4	1,000.33	3/4	634.35	3/4	277.44	3/4		3/4		3/4		3/4	
9	2,090.83	9	1,724.37	9	1,358.31	9	992.72	9	626.72	9	270.49	9		9		9		9	
1/4	2,083.20	1/4	1,716.74	1/4	1,350.71	1/4	985.12	1/4	619.08	1/4	263.53	1/4		1/4		1/4		1/4	
1/2	2,075.56	1/2	1,709.10	1/2	1,343.10	1/2	977.51	1/2	611.45	1/2	256.58	1/2		1/2		1/2		1/2	
3/4	2,067.93	3/4	1,701.47	3/4	1,335.49	3/4	969.91	3/4	603.81	3/4	249.62	3/4		3/4		3/4		3/4	
10	2,060.29	10	1,693.83	10	1,327.88	10	962.30	10	596.18	10	242.75	10		10		10		10	
1/4	2,052.66	1/4	1,686.20	1/4	1,320.28	1/4	954.69	1/4	588.54	1/4	235.88	1/4		1/4		1/4		1/4	
1/2	2,045.02	1/2	1,678.56	1/2	1,312.67	1/2	947.09	1/2	580.91	1/2	229.00	1/2		1/2		1/2		1/2	
3/4	2,037.39	3/4	1,670.93	3/4	1,305.06	3/4	939.48	3/4	573.27	3/4	222.13	3/4		3/4		3/4		3/4	
11	2,029.76	11	1,663.29	11	1,297.44	11	931.88	11	565.63	11	215.35	11		11		11		11	
1/4	2,022.12	1/4	1,655.66	1/4	1,289.82	1/4	924.27	1/4	558.00	1/4	208.56	1/4		1/4		1/4		1/4	
1/2	2,014.49	1/2	1,648.02	1/2	1,282.20	1/2	916.66	1/2	550.36	1/2	201.77	1/2		1/2		1/2		1/2	
3/4	2,006.85	3/4	1,640.39	3/4	1,274.58	3/4	909.06	3/4	542.73	3/4	194.99	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "KIRBY 28081"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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		0	4,543.55	0	4,213.79	0	3,860.30	0	3,496.46	0	3,132.61	0	2,768.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,536.90	1/4	4,206.62	1/4	3,852.72	1/4	3,488.88	1/4	3,125.03	1/4	2,761.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,530.26	1/2	4,199.46	1/2	3,845.14	1/2	3,481.30	1/2	3,117.45	1/2	2,753.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,847.88	3/4	4,523.61	3/4	4,192.29	3/4	3,837.56	3/4	3,473.72	3/4	3,109.87	3/4	2,746.03
1		1		1		1		1	4,842.28	1	4,516.97	1	4,185.12	1	3,829.98	1	3,466.14	1	3,102.29	1	2,738.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,835.49	1/4	4,510.29	1/4	4,177.92	1/4	3,822.40	1/4	3,458.56	1/4	3,094.71	1/4	2,730.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,828.71	1/2	4,503.62	1/2	4,170.72	1/2	3,814.82	1/2	3,450.98	1/2	3,087.13	1/2	2,723.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,821.92	3/4	4,496.94	3/4	4,163.51	3/4	3,807.24	3/4	3,443.40	3/4	3,079.55	3/4	2,715.71
2		2		2		2		2	4,815.14	2	4,490.27	2	4,156.31	2	3,799.66	2	3,435.82	2	3,071.97	2	2,708.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,807.72	1/4	4,483.56	1/4	4,149.07	1/4	3,792.08	1/4	3,428.24	1/4	3,064.39	1/4	2,700.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.31	1/2	4,476.84	1/2	4,141.83	1/2	3,784.50	1/2	3,420.66	1/2	3,056.81	1/2	2,692.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,792.89	3/4	4,470.13	3/4	4,134.58	3/4	3,776.92	3/4	3,413.08	3/4	3,049.23	3/4	2,685.39
3		3		3		3		3	4,785.47	3	4,463.42	3	4,127.34	3	3,769.34	3	3,405.50	3	3,041.65	3	2,677.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,777.98	1/4	4,456.67	1/4	4,120.07	1/4	3,761.76	1/4	3,397.92	1/4	3,034.07	1/4	2,670.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.48	1/2	4,449.93	1/2	4,112.79	1/2	3,754.18	1/2	3,390.34	1/2	3,026.49	1/2	2,662.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,762.99	3/4	4,443.18	3/4	4,105.52	3/4	3,746.60	3/4	3,382.76	3/4	3,018.91	3/4	2,655.07
4		4		4		4		4	4,755.49	4	4,436.43	4	4,098.24	4	3,739.02	4	3,375.18	4	3,011.33	4	2,647.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,748.27	1/4	4,429.64	1/4	4,090.93	1/4	3,731.44	1/4	3,367.60	1/4	3,003.75	1/4	2,639.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.05	1/2	4,422.86	1/2	4,083.62	1/2	3,723.86	1/2	3,360.02	1/2	2,996.17	1/2	2,632.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,733.84	3/4	4,416.07	3/4	4,076.31	3/4	3,716.28	3/4	3,352.44	3/4	2,988.59	3/4	2,624.75
5		5		5		5		5	4,726.62	5	4,409.29	5	4,069.01	5	3,708.70	5	3,344.86	5	2,981.01	5	2,617.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,719.95	1/4	4,402.47	1/4	4,061.66	1/4	3,701.12	1/4	3,337.28	1/4	2,973.43	1/4	2,609.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,713.27	1/2	4,395.64	1/2	4,054.32	1/2	3,693.54	1/2	3,329.70	1/2	2,965.85	1/2	2,602.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,706.60	3/4	4,388.82	3/4	4,046.98	3/4	3,685.96	3/4	3,322.12	3/4	2,958.27	3/4	2,594.43
6		6		6		6		6	4,699.93	6	4,382.00	6	4,039.63	6	3,678.38	6	3,314.54	6	2,950.69	6	2,586.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.50	1/4	4,375.14	1/4	4,032.25	1/4	3,670.80	1/4	3,306.96	1/4	2,943.11	1/4	2,579.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,687.08	1/2	4,368.28	1/2	4,024.87	1/2	3,663.22	1/2	3,299.38	1/2	2,935.53	1/2	2,571.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,680.66	3/4	4,361.42	3/4	4,017.49	3/4	3,655.64	3/4	3,291.80	3/4	2,927.95	3/4	2,564.11
7		7		7		7		7	4,674.24	7	4,354.56	7	4,010.11	7	3,648.06	7	3,284.22	7	2,920.37	7	2,556.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.77	1/4	4,347.64	1/4	4,002.69	1/4	3,640.48	1/4	3,276.64	1/4	2,912.79	1/4	2,548.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,661.31	1/2	4,340.73	1/2	3,995.27	1/2	3,632.90	1/2	3,269.06	1/2	2,905.21	1/2	2,541.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,654.85	3/4	4,333.81	3/4	3,987.86	3/4	3,625.32	3/4	3,261.48	3/4	2,897.63	3/4	2,533.79
8		8		8		8		8	4,648.39	8	4,326.89	8	3,980.44	8	3,617.74	8	3,253.90	8	2,890.05	8	2,526.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,641.90	1/4	4,319.89	1/4	3,972.98	1/4	3,610.16	1/4	3,246.32	1/4	2,882.47	1/4	2,518.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.40	1/2	4,312.90	1/2	3,965.53	1/2	3,602.58	1/2	3,238.74	1/2	2,874.89	1/2	2,511.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,628.90	3/4	4,305.90	3/4	3,958.08	3/4	3,595.00	3/4	3,231.16	3/4	2,867.31	3/4	2,503.47
9		9		9		9		9	4,622.41	9	4,298.90	9	3,950.62	9	3,587.42	9	3,223.58	9	2,859.73	9	2,495.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,615.87	1/4	4,291.85	1/4	3,943.13	1/4	3,579.84	1/4	3,216.00	1/4	2,852.15	1/4	2,488.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,609.34	1/2	4,284.79	1/2	3,935.64	1/2	3,572.26	1/2	3,208.42	1/2	2,844.57	1/2	2,480.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,602.80	3/4	4,277.74	3/4	3,928.14	3/4	3,564.68	3/4	3,200.84	3/4	2,836.99	3/4	2,473.15
10		10		10		10		10	4,596.27	10	4,270.68	10	3,920.65	10	3,557.10	10	3,193.26	10	2,829.41	10	2,465.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.70	1/4	4,263.59	1/4	3,913.12	1/4	3,549.52	1/4	3,185.68	1/4	2,821.83	1/4	2,457.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,583.12	1/2	4,256.49	1/2	3,905.60	1/2	3,541.94	1/2	3,178.10	1/2	2,814.25	1/2	2,450.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.55	3/4	4,249.40	3/4	3,898.07	3/4	3,534.36	3/4	3,170.52	3/4	2,806.67	3/4	2,442.83
11		11		11		11		11	4,569.98	11	4,242.31	11	3,890.54	11	3,526.78	11	3,162.93	11	2,799.09	11	2,435.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.37	1/4	4,235.18	1/4	3,882.98	1/4	3,519.20	1/4	3,155.35	1/4	2,791.51	1/4	2,427.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,556.76	1/2	4,228.05	1/2	3,875.42	1/2	3,511.62	1/2	3,147.77	1/2	2,783.93	1/2	2,420.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,550.15	3/4	4,220.92	3/4	3,867.86	3/4	3,504.04	3/4	3,140.19	3/4	2,776.35	3/4	2,412.51

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'-10" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-08"

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	2,404.92	0	2,041.08	0	1,677.22	0	1,317.25	0	965.80	0	606.30	0	242.41	0		0		0	
1/4	2,397.34	1/4	2,033.50	1/4	1,669.64	1/4	1,309.67	1/4	958.55	1/4	598.72	1/4	234.83	1/4		1/4		1/4	
1/2	2,389.76	1/2	2,025.92	1/2	1,662.06	1/2	1,302.09	1/2	951.29	1/2	591.14	1/2	227.25	1/2		1/2		1/2	
3/4	2,382.18	3/4	2,018.34	3/4	1,654.48	3/4	1,294.51	3/4	944.04	3/4	583.56	3/4	219.66	3/4		3/4		3/4	
1	2,374.60	1	2,010.76	1	1,646.90	1	1,286.93	1	936.79	1	575.98	1	212.08	1		1		1	
1/4	2,367.02	1/4	2,003.18	1/4	1,639.32	1/4	1,279.34	1/4	929.52	1/4	568.39	1/4	204.51	1/4		1/4		1/4	
1/2	2,359.44	1/2	1,995.60	1/2	1,631.74	1/2	1,271.76	1/2	922.26	1/2	560.81	1/2	196.93	1/2		1/2		1/2	
3/4	2,351.86	3/4	1,988.02	3/4	1,624.16	3/4	1,264.18	3/4	914.99	3/4	553.23	3/4	189.35	3/4		3/4		3/4	
2	2,344.28	2	1,980.43	2	1,616.58	2	1,256.60	2	907.72	2	545.65	2	181.77	2		2		2	
1/4	2,336.70	1/4	1,972.85	1/4	1,609.00	1/4	1,249.17	1/4	900.44	1/4	538.07	1/4	174.20	1/4		1/4		1/4	
1/2	2,329.12	1/2	1,965.27	1/2	1,601.42	1/2	1,241.74	1/2	893.16	1/2	530.49	1/2	166.63	1/2		1/2		1/2	
3/4	2,321.54	3/4	1,957.69	3/4	1,593.84	3/4	1,234.31	3/4	885.89	3/4	522.91	3/4	159.06	3/4		3/4		3/4	
3	2,313.96	3	1,950.11	3	1,586.26	3	1,226.88	3	878.61	3	515.33	3	151.48	3		3		3	
1/4	2,306.38	1/4	1,942.53	1/4	1,578.68	1/4	1,219.61	1/4	871.18	1/4	507.75	1/4	143.92	1/4		1/4		1/4	
1/2	2,298.80	1/2	1,934.95	1/2	1,571.10	1/2	1,212.35	1/2	863.75	1/2	500.16	1/2	136.37	1/2		1/2		1/2	
3/4	2,291.22	3/4	1,927.37	3/4	1,563.52	3/4	1,205.08	3/4	856.32	3/4	492.58	3/4	128.81	3/4		3/4		3/4	
4	2,283.64	4	1,919.79	4	1,555.94	4	1,197.81	4	848.89	4	485.00	4	121.25	4		4		4	
1/4	2,276.06	1/4	1,912.21	1/4	1,548.44	1/4	1,190.56	1/4	841.31	1/4	477.42	1/4	113.71	1/4		1/4		1/4	
1/2	2,268.48	1/2	1,904.63	1/2	1,540.94	1/2	1,183.31	1/2	833.73	1/2	469.84	1/2	106.17	1/2		1/2		1/2	
3/4	2,260.90	3/4	1,897.05	3/4	1,533.44	3/4	1,176.06	3/4	826.15	3/4	462.26	3/4	98.63	3/4		3/4		3/4	
5	2,253.32	5	1,889.47	5	1,525.94	5	1,168.80	5	818.56	5	454.68	5	91.09	5		5		5	
1/4	2,245.74	1/4	1,881.89	1/4	1,518.52	1/4	1,161.55	1/4	810.98	1/4	447.10	1/4	83.58	1/4		1/4		1/4	
1/2	2,238.16	1/2	1,874.31	1/2	1,511.10	1/2	1,154.30	1/2	803.40	1/2	439.52	1/2	76.08	1/2		1/2		1/2	
3/4	2,230.58	3/4	1,866.73	3/4	1,503.69	3/4	1,147.05	3/4	795.82	3/4	431.93	3/4	68.57	3/4		3/4		3/4	
6	2,223.00	6	1,859.15	6	1,496.27	6	1,139.80	6	788.24	6	424.35	6	61.06	6		6		6	
1/4	2,215.42	1/4	1,851.57	1/4	1,488.85	1/4	1,132.55	1/4	780.66	1/4	416.77	1/4	54.16	1/4		1/4		1/4	
1/2	2,207.84	1/2	1,843.99	1/2	1,481.43	1/2	1,125.30	1/2	773.08	1/2	409.19	1/2	47.26	1/2		1/2		1/2	
3/4	2,200.26	3/4	1,836.41	3/4	1,474.01	3/4	1,118.05	3/4	765.50	3/4	401.61	3/4	40.37	3/4		3/4		3/4	
7	2,192.68	7	1,828.83	7	1,466.60	7	1,110.80	7	757.92	7	394.03	7	33.47	7		7		7	
1/4	2,185.10	1/4	1,821.25	1/4	1,459.18	1/4	1,103.55	1/4	750.34	1/4	386.45	1/4	28.41	1/4		1/4		1/4	
1/2	2,177.52	1/2	1,813.67	1/2	1,451.76	1/2	1,096.30	1/2	742.76	1/2	378.87	1/2	23.36	1/2		1/2		1/2	
3/4	2,169.94	3/4	1,806.09	3/4	1,444.34	3/4	1,089.05	3/4	735.18	3/4	371.29	3/4	18.31	3/4		3/4		3/4	
8	2,162.36	8	1,798.51	8	1,436.92	8	1,081.80	8	727.60	8	363.70	8	13.26	8		8		8	
1/4	2,154.78	1/4	1,790.93	1/4	1,429.50	1/4	1,074.55	1/4	720.02	1/4	356.12	1/4		1/4		1/4		1/4	
1/2	2,147.20	1/2	1,783.35	1/2	1,422.09	1/2	1,067.30	1/2	712.43	1/2	348.54	1/2		1/2		1/2		1/2	
3/4	2,139.62	3/4	1,775.77	3/4	1,414.67	3/4	1,060.05	3/4	704.85	3/4	340.96	3/4		3/4		3/4		3/4	
9	2,132.04	9	1,768.19	9	1,407.25	9	1,052.80	9	697.27	9	333.38	9		9		9		9	
1/4	2,124.46	1/4	1,760.61	1/4	1,399.83	1/4	1,045.55	1/4	689.69	1/4	325.80	1/4		1/4		1/4		1/4	
1/2	2,116.88	1/2	1,753.03	1/2	1,392.41	1/2	1,038.30	1/2	682.11	1/2	318.22	1/2		1/2		1/2		1/2	
3/4	2,109.30	3/4	1,745.45	3/4	1,384.99	3/4	1,031.05	3/4	674.53	3/4	310.64	3/4		3/4		3/4		3/4	
10	2,101.72	10	1,737.87	10	1,377.57	10	1,023.80	10	666.95	10	303.06	10		10		10		10	
1/4	2,094.14	1/4	1,730.29	1/4	1,370.07	1/4	1,016.55	1/4	659.37	1/4	295.48	1/4		1/4		1/4		1/4	
1/2	2,086.56	1/2	1,722.70	1/2	1,362.57	1/2	1,009.30	1/2	651.79	1/2	287.89	1/2		1/2		1/2		1/2	
3/4	2,078.98	3/4	1,715.12	3/4	1,355.07	3/4	1,002.05	3/4	644.21	3/4	280.31	3/4		3/4		3/4		3/4	
11	2,071.40	11	1,707.54	11	1,347.57	11	994.80	11	636.62	11	272.73	11		11		11		11	
1/4	2,063.82	1/4	1,699.96	1/4	1,339.99	1/4	987.55	1/4	629.04	1/4	265.15	1/4		1/4		1/4		1/4	
1/2	2,056.24	1/2	1,692.38	1/2	1,332.41	1/2	980.30	1/2	621.46	1/2	257.57	1/2		1/2		1/2		1/2	
3/4	2,048.66	3/4	1,684.80	3/4	1,324.83	3/4	973.05	3/4	613.88	3/4	249.99	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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





# BARGE "KIRBY 28081"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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		IN	
0		0		0		0		0	4,545.94	0	4,215.14	0	3,860.82	0	3,496.98	0	3,133.13	0	2,769.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,539.30	1/4	4,207.97	1/4	3,853.24	1/4	3,489.40	1/4	3,125.55	1/4	2,761.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,857.97	1/2	4,532.66	1/2	4,200.80	1/2	3,845.66	1/2	3,481.82	1/2	3,117.97	1/2	2,754.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,851.19	3/4	4,525.98	3/4	4,193.60	3/4	3,838.08	3/4	3,474.24	3/4	3,110.39	3/4	2,746.55
1		1		1		1		1	4,844.40	1	4,519.30	1	4,186.40	1	3,830.50	1	3,466.66	1	3,102.81	1	2,738.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,837.62	1/4	4,512.63	1/4	4,179.19	1/4	3,822.92	1/4	3,459.08	1/4	3,095.23	1/4	2,731.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,830.83	1/2	4,505.95	1/2	4,171.99	1/2	3,815.34	1/2	3,451.50	1/2	3,087.65	1/2	2,723.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,823.41	3/4	4,499.24	3/4	4,164.75	3/4	3,807.76	3/4	3,443.92	3/4	3,080.07	3/4	2,716.23
2		2		2		2		2	4,816.00	2	4,492.53	2	4,157.51	2	3,800.18	2	3,436.34	2	3,072.49	2	2,708.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.58	1/4	4,485.82	1/4	4,150.27	1/4	3,792.60	1/4	3,428.76	1/4	3,064.91	1/4	2,701.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,801.16	1/2	4,479.11	1/2	4,143.02	1/2	3,785.02	1/2	3,421.18	1/2	3,057.33	1/2	2,693.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.67	3/4	4,472.36	3/4	4,135.75	3/4	3,777.44	3/4	3,413.60	3/4	3,049.75	3/4	2,685.91
3		3		3		3		3	4,786.17	3	4,465.61	3	4,128.47	3	3,769.86	3	3,406.02	3	3,042.17	3	2,678.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.68	1/4	4,458.86	1/4	4,121.20	1/4	3,762.28	1/4	3,398.44	1/4	3,034.59	1/4	2,670.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,771.18	1/2	4,452.11	1/2	4,113.92	1/2	3,754.70	1/2	3,390.86	1/2	3,027.01	1/2	2,663.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.96	3/4	4,445.33	3/4	4,106.61	3/4	3,747.12	3/4	3,383.28	3/4	3,019.43	3/4	2,655.59
4		4		4		4		4	4,756.74	4	4,438.54	4	4,099.30	4	3,739.54	4	3,375.70	4	3,011.85	4	2,648.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,749.53	1/4	4,431.76	1/4	4,091.99	1/4	3,731.96	1/4	3,368.12	1/4	3,004.27	1/4	2,640.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,742.31	1/2	4,424.97	1/2	4,084.69	1/2	3,724.38	1/2	3,360.54	1/2	2,996.69	1/2	2,632.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,735.63	3/4	4,418.15	3/4	4,077.34	3/4	3,716.80	3/4	3,352.96	3/4	2,989.11	3/4	2,625.27
5		5		5		5		5	4,728.96	5	4,411.33	5	4,070.00	5	3,709.22	5	3,345.38	5	2,981.53	5	2,617.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,722.29	1/4	4,404.51	1/4	4,062.66	1/4	3,701.64	1/4	3,337.80	1/4	2,973.95	1/4	2,610.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,715.62	1/2	4,397.68	1/2	4,055.31	1/2	3,694.06	1/2	3,330.22	1/2	2,966.37	1/2	2,602.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,709.19	3/4	4,390.82	3/4	4,047.93	3/4	3,686.48	3/4	3,322.64	3/4	2,958.79	3/4	2,594.95
6		6		6		6		6	4,702.77	6	4,383.96	6	4,040.55	6	3,678.90	6	3,315.06	6	2,951.21	6	2,587.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,696.35	1/4	4,377.10	1/4	4,033.17	1/4	3,671.32	1/4	3,307.48	1/4	2,943.63	1/4	2,579.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,689.92	1/2	4,370.24	1/2	4,025.79	1/2	3,663.74	1/2	3,299.90	1/2	2,936.05	1/2	2,572.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,683.46	3/4	4,363.33	3/4	4,018.37	3/4	3,656.16	3/4	3,292.32	3/4	2,928.47	3/4	2,564.63
7		7		7		7		7	4,677.00	7	4,356.41	7	4,010.96	7	3,648.58	7	3,284.74	7	2,920.89	7	2,557.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,670.54	1/4	4,349.49	1/4	4,003.54	1/4	3,641.00	1/4	3,277.16	1/4	2,913.31	1/4	2,549.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.08	1/2	4,342.57	1/2	3,996.12	1/2	3,633.42	1/2	3,269.58	1/2	2,905.73	1/2	2,541.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,657.58	3/4	4,335.58	3/4	3,988.67	3/4	3,625.84	3/4	3,262.00	3/4	2,898.15	3/4	2,534.31
8		8		8		8		8	4,651.09	8	4,328.58	8	3,981.21	8	3,618.26	8	3,254.42	8	2,890.57	8	2,526.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,644.59	1/4	4,321.58	1/4	3,973.76	1/4	3,610.68	1/4	3,246.84	1/4	2,882.99	1/4	2,519.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,638.09	1/2	4,314.58	1/2	3,966.30	1/2	3,603.10	1/2	3,239.26	1/2	2,875.41	1/2	2,511.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,631.56	3/4	4,307.53	3/4	3,958.81	3/4	3,595.52	3/4	3,231.68	3/4	2,867.83	3/4	2,503.99
9		9		9		9		9	4,625.02	9	4,300.47	9	3,951.32	9	3,587.94	9	3,224.10	9	2,860.25	9	2,496.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,618.49	1/4	4,293.42	1/4	3,943.83	1/4	3,580.36	1/4	3,216.52	1/4	2,852.67	1/4	2,488.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,611.95	1/2	4,286.36	1/2	3,936.33	1/2	3,572.78	1/2	3,208.94	1/2	2,845.09	1/2	2,481.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,605.38	3/4	4,279.27	3/4	3,928.80	3/4	3,565.20	3/4	3,201.36	3/4	2,837.51	3/4	2,473.67
10		10		10		10		10	4,598.81	10	4,272.18	10	3,921.28	10	3,557.62	10	3,193.78	10	2,829.93	10	2,466.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,592.24	1/4	4,265.08	1/4	3,913.75	1/4	3,550.04	1/4	3,186.19	1/4	2,822.35	1/4	2,458.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,585.67	1/2	4,257.99	1/2	3,906.22	1/2	3,542.46	1/2	3,178.61	1/2	2,814.77	1/2	2,450.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,579.06	3/4	4,250.86	3/4	3,898.66	3/4	3,534.88	3/4	3,171.03	3/4	2,807.19	3/4	2,443.35
11		11		11		11		11	4,572.45	11	4,243.73	11	3,891.10	11	3,527.30	11	3,163.45	11	2,799.61	11	2,435.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,565.84	1/4	4,236.60	1/4	3,883.54	1/4	3,519.72	1/4	3,155.87	1/4	2,792.03	1/4	2,428.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,559.23	1/2	4,229.47	1/2	3,875.98	1/2	3,512.14	1/2	3,148.29	1/2	2,784.45	1/2	2,420.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,552.59	3/4	4,222.31	3/4	3,868.40	3/4	3,504.56	3/4	3,140.71	3/4	2,776.87	3/4	2,413.02

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'-10" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "KIRBY 28081"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	2,405.44	0	2,041.60	0	1,677.74	0	1,317.77	0	954.91	0	591.14	0	227.25	0		0		0	
1/4	2,397.86	1/4	2,034.02	1/4	1,670.16	1/4	1,310.19	1/4	947.36	1/4	583.56	1/4	219.66	1/4	1/4	1/4		1/4	1/4
1/2	2,390.28	1/2	2,026.44	1/2	1,662.58	1/2	1,302.61	1/2	939.81	1/2	575.98	1/2	212.08	1/2	1/2	1/2		1/2	1/2
3/4	2,382.70	3/4	2,018.86	3/4	1,655.00	3/4	1,295.03	3/4	932.24	3/4	568.39	3/4	204.51	3/4	3/4	3/4		3/4	3/4
1	2,375.12	1	2,011.28	1	1,647.42	1	1,287.44	1	924.67	1	560.81	1	196.93	1		1		1	1
1/4	2,367.54	1/4	2,003.70	1/4	1,639.84	1/4	1,279.86	1/4	917.10	1/4	553.23	1/4	189.35	1/4	1/4	1/4		1/4	1/4
1/2	2,359.96	1/2	1,996.12	1/2	1,632.26	1/2	1,272.28	1/2	909.53	1/2	545.65	1/2	181.77	1/2	1/2	1/2		1/2	1/2
3/4	2,352.38	3/4	1,988.53	3/4	1,624.68	3/4	1,264.70	3/4	901.95	3/4	538.07	3/4	174.20	3/4	3/4	3/4		3/4	3/4
2	2,344.80	2	1,980.95	2	1,617.10	2	1,257.12	2	894.37	2	530.49	2	166.63	2		2		2	2
1/4	2,337.22	1/4	1,973.37	1/4	1,609.52	1/4	1,249.54	1/4	886.79	1/4	522.91	1/4	159.06	1/4	1/4	1/4		1/4	1/4
1/2	2,329.64	1/2	1,965.79	1/2	1,601.94	1/2	1,241.96	1/2	879.21	1/2	515.33	1/2	151.48	1/2	1/2	1/2		1/2	1/2
3/4	2,322.06	3/4	1,958.21	3/4	1,594.36	3/4	1,234.39	3/4	871.63	3/4	507.75	3/4	143.92	3/4	3/4	3/4		3/4	3/4
3	2,314.48	3	1,950.63	3	1,586.78	3	1,226.82	3	864.05	3	500.16	3	136.37	3		3		3	3
1/4	2,306.90	1/4	1,943.05	1/4	1,579.20	1/4	1,219.25	1/4	856.47	1/4	492.58	1/4	128.81	1/4	1/4	1/4		1/4	1/4
1/2	2,299.32	1/2	1,935.47	1/2	1,571.62	1/2	1,211.68	1/2	848.89	1/2	485.00	1/2	121.25	1/2	1/2	1/2		1/2	1/2
3/4	2,291.74	3/4	1,927.89	3/4	1,564.12	3/4	1,204.13	3/4	841.31	3/4	477.42	3/4	113.71	3/4	3/4	3/4		3/4	3/4
4	2,284.16	4	1,920.31	4	1,556.62	4	1,196.58	4	833.72	4	469.84	4	106.17	4		4		4	4
1/4	2,276.58	1/4	1,912.73	1/4	1,549.12	1/4	1,189.02	1/4	826.14	1/4	462.26	1/4	98.63	1/4	1/4	1/4		1/4	1/4
1/2	2,269.00	1/2	1,905.15	1/2	1,541.62	1/2	1,181.47	1/2	818.56	1/2	454.68	1/2	91.09	1/2	1/2	1/2		1/2	1/2
3/4	2,261.42	3/4	1,897.57	3/4	1,534.20	3/4	1,173.92	3/4	810.98	3/4	447.10	3/4	83.58	3/4	3/4	3/4		3/4	3/4
5	2,253.84	5	1,889.99	5	1,526.78	5	1,166.37	5	803.40	5	439.52	5	76.08	5		5		5	5
1/4	2,246.26	1/4	1,882.41	1/4	1,519.37	1/4	1,158.82	1/4	795.82	1/4	431.93	1/4	68.57	1/4	1/4	1/4		1/4	1/4
1/2	2,238.68	1/2	1,874.83	1/2	1,511.95	1/2	1,151.26	1/2	788.24	1/2	424.35	1/2	61.06	1/2	1/2	1/2		1/2	1/2
3/4	2,231.10	3/4	1,867.25	3/4	1,504.53	3/4	1,143.71	3/4	780.66	3/4	416.77	3/4	54.16	3/4	3/4	3/4		3/4	3/4
6	2,223.52	6	1,859.67	6	1,497.11	6	1,136.16	6	773.08	6	409.19	6	47.26	6		6		6	6
1/4	2,215.94	1/4	1,852.09	1/4	1,489.69	1/4	1,128.61	1/4	765.50	1/4	401.61	1/4	40.37	1/4	1/4	1/4		1/4	1/4
1/2	2,208.36	1/2	1,844.51	1/2	1,482.28	1/2	1,121.06	1/2	757.92	1/2	394.03	1/2	33.47	1/2	1/2	1/2		1/2	1/2
3/4	2,200.78	3/4	1,836.93	3/4	1,474.86	3/4	1,113.50	3/4	750.34	3/4	386.45	3/4	28.41	3/4	3/4	3/4		3/4	3/4
7	2,193.20	7	1,829.35	7	1,467.44	7	1,105.95	7	742.76	7	378.87	7	23.36	7		7		7	7
1/4	2,185.62	1/4	1,821.77	1/4	1,460.02	1/4	1,098.40	1/4	735.18	1/4	371.29	1/4	18.31	1/4	1/4	1/4		1/4	1/4
1/2	2,178.04	1/2	1,814.19	1/2	1,452.60	1/2	1,090.85	1/2	727.60	1/2	363.70	1/2	13.26	1/2	1/2	1/2		1/2	1/2
3/4	2,170.46	3/4	1,806.61	3/4	1,445.18	3/4	1,083.30	3/4	720.02	3/4	356.12	3/4		3/4	3/4	3/4		3/4	3/4
8	2,162.88	8	1,799.03	8	1,437.77	8	1,075.75	8	712.43	8	348.54	8		8		8		8	8
1/4	2,155.30	1/4	1,791.45	1/4	1,430.35	1/4	1,068.19	1/4	704.85	1/4	340.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,147.72	1/2	1,783.87	1/2	1,422.93	1/2	1,060.64	1/2	697.27	1/2	333.38	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,140.14	3/4	1,776.29	3/4	1,415.51	3/4	1,053.09	3/4	689.69	3/4	325.80	3/4		3/4	3/4	3/4		3/4	3/4
9	2,132.56	9	1,768.71	9	1,408.09	9	1,045.54	9	682.11	9	318.22	9		9		9		9	9
1/4	2,124.98	1/4	1,761.13	1/4	1,400.67	1/4	1,037.99	1/4	674.53	1/4	310.64	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,117.40	1/2	1,753.55	1/2	1,393.25	1/2	1,030.43	1/2	666.95	1/2	303.06	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,109.82	3/4	1,745.97	3/4	1,385.75	3/4	1,022.88	3/4	659.37	3/4	295.47	3/4		3/4	3/4	3/4		3/4	3/4
10	2,102.24	10	1,738.39	10	1,378.25	10	1,015.33	10	651.79	10	287.89	10		10		10		10	10
1/4	2,094.66	1/4	1,730.80	1/4	1,370.75	1/4	1,007.78	1/4	644.21	1/4	280.31	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,087.08	1/2	1,723.22	1/2	1,363.25	1/2	1,000.23	1/2	636.62	1/2	272.73	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,079.50	3/4	1,715.64	3/4	1,355.67	3/4	992.68	3/4	629.04	3/4	265.15	3/4		3/4	3/4	3/4		3/4	3/4
11	2,071.92	11	1,708.06	11	1,348.09	11	985.12	11	621.46	11	257.57	11		11		11		11	11
1/4	2,064.34	1/4	1,700.48	1/4	1,340.51	1/4	977.57	1/4	613.88	1/4	249.99	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,056.76	1/2	1,692.90	1/2	1,332.93	1/2	970.02	1/2	606.30	1/2	242.41	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,049.18	3/4	1,685.32	3/4	1,325.35	3/4	962.47	3/4	598.72	3/4	234.83	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28081"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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		0	4,217.93	0	3,957.35	0	3,682.77	0	3,402.64	0	3,041.93	0	2,678.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,212.63	1/4	3,951.74	1/4	3,676.94	1/4	3,395.92	1/4	3,034.35	1/4	2,670.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,462.31	1/2	4,207.34	1/2	3,946.12	1/2	3,671.11	1/2	3,389.21	1/2	3,026.78	1/2	2,663.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,457.58	3/4	4,202.04	3/4	3,940.51	3/4	3,665.27	3/4	3,382.49	3/4	3,019.20	3/4	2,655.49
1		1		1		1		1	4,452.85	1	4,196.75	1	3,934.90	1	3,659.44	1	3,375.77	1	3,011.62	1	2,647.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,447.81	1/4	4,191.44	1/4	3,929.26	1/4	3,653.60	1/4	3,368.18	1/4	3,004.04	1/4	2,640.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,442.77	1/2	4,186.13	1/2	3,923.63	1/2	3,647.76	1/2	3,360.58	1/2	2,996.47	1/2	2,632.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,437.73	3/4	4,180.82	3/4	3,917.99	3/4	3,641.93	3/4	3,352.98	3/4	2,988.89	3/4	2,625.18
2		2		2		2		2	4,432.69	2	4,175.50	2	3,912.36	2	3,636.09	2	3,345.38	2	2,981.31	2	2,617.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,427.01	1/4	4,170.17	1/4	3,906.70	1/4	3,630.26	1/4	3,337.79	1/4	2,973.74	1/4	2,610.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,421.34	1/2	4,164.84	1/2	3,901.05	1/2	3,624.42	1/2	3,330.19	1/2	2,966.16	1/2	2,602.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,415.67	3/4	4,159.51	3/4	3,895.40	3/4	3,618.58	3/4	3,322.59	3/4	2,958.58	3/4	2,594.87
3		3		3		3		3	4,409.99	3	4,154.18	3	3,889.74	3	3,612.75	3	3,314.99	3	2,951.00	3	2,587.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,404.24	1/4	4,148.83	1/4	3,884.07	1/4	3,606.91	1/4	3,307.40	1/4	2,943.43	1/4	2,579.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,398.49	1/2	4,143.48	1/2	3,878.40	1/2	3,601.07	1/2	3,299.80	1/2	2,935.85	1/2	2,572.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,392.74	3/4	4,138.13	3/4	3,872.72	3/4	3,595.24	3/4	3,292.20	3/4	2,928.27	3/4	2,564.56
4		4		4		4		4	4,386.99	4	4,132.78	4	3,867.05	4	3,589.40	4	3,284.60	4	2,920.69	4	2,556.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,381.38	1/4	4,127.41	1/4	3,861.36	1/4	3,583.57	1/4	3,277.01	1/4	2,913.12	1/4	2,549.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.78	1/2	4,122.04	1/2	3,855.67	1/2	3,577.73	1/2	3,269.41	1/2	2,905.54	1/2	2,541.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,370.18	3/4	4,116.67	3/4	3,849.98	3/4	3,571.89	3/4	3,261.81	3/4	2,897.96	3/4	2,534.25
5		5		5		5		5	4,364.58	5	4,111.30	5	3,844.29	5	3,566.06	5	3,254.22	5	2,890.39	5	2,526.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,359.27	1/4	4,105.91	1/4	3,838.58	1/4	3,560.22	1/4	3,246.62	1/4	2,882.81	1/4	2,519.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,353.96	1/2	4,100.52	1/2	3,832.87	1/2	3,554.38	1/2	3,239.02	1/2	2,875.23	1/2	2,511.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,348.65	3/4	4,095.13	3/4	3,827.16	3/4	3,548.55	3/4	3,231.42	3/4	2,867.65	3/4	2,503.94
6		6		6		6		6	4,343.34	6	4,089.74	6	3,821.45	6	3,542.71	6	3,223.83	6	2,860.08	6	2,496.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,338.16	1/4	4,084.33	1/4	3,815.72	1/4	3,536.87	1/4	3,216.24	1/4	2,852.50	1/4	2,488.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.99	1/2	4,078.92	1/2	3,810.00	1/2	3,531.04	1/2	3,208.65	1/2	2,844.92	1/2	2,481.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,327.81	3/4	4,073.51	3/4	3,804.27	3/4	3,525.20	3/4	3,201.06	3/4	2,837.34	3/4	2,473.63
7		7		7		7		7	4,322.63	7	4,068.10	7	3,798.54	7	3,519.37	7	3,193.48	7	2,829.77	7	2,466.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,317.44	1/4	4,062.65	1/4	3,792.79	1/4	3,513.53	1/4	3,185.90	1/4	2,822.19	1/4	2,458.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,312.24	1/2	4,057.20	1/2	3,787.04	1/2	3,507.69	1/2	3,178.32	1/2	2,814.61	1/2	2,450.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,307.05	3/4	4,051.75	3/4	3,781.29	3/4	3,501.86	3/4	3,170.75	3/4	2,807.03	3/4	2,443.32
8		8		8		8		8	4,301.85	8	4,046.30	8	3,775.54	8	3,496.02	8	3,163.17	8	2,799.46	8	2,435.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,296.64	1/4	4,040.78	1/4	3,769.77	1/4	3,490.18	1/4	3,155.59	1/4	2,791.88	1/4	2,428.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,291.42	1/2	4,035.27	1/2	3,764.00	1/2	3,484.35	1/2	3,148.01	1/2	2,784.30	1/2	2,420.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,286.21	3/4	4,029.76	3/4	3,758.23	3/4	3,478.51	3/4	3,140.44	3/4	2,776.73	3/4	2,413.02
9		9		9		9		9	4,280.99	9	4,024.24	9	3,752.47	9	3,472.68	9	3,132.86	9	2,769.15	9	2,405.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,275.76	1/4	4,018.69	1/4	3,746.68	1/4	3,466.84	1/4	3,125.28	1/4	2,761.57	1/4	2,397.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,270.52	1/2	4,013.14	1/2	3,740.89	1/2	3,461.00	1/2	3,117.70	1/2	2,753.99	1/2	2,390.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,265.29	3/4	4,007.58	3/4	3,735.10	3/4	3,455.17	3/4	3,110.13	3/4	2,746.42	3/4	2,382.71
10		10		10		10		10	4,260.05	10	4,002.03	10	3,729.31	10	3,449.33	10	3,102.55	10	2,738.84	10	2,375.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,254.79	1/4	3,996.45	1/4	3,723.50	1/4	3,443.49	1/4	3,094.97	1/4	2,731.26	1/4	2,367.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,249.54	1/2	3,990.88	1/2	3,717.69	1/2	3,437.66	1/2	3,087.40	1/2	2,723.68	1/2	2,359.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,244.28	3/4	3,985.30	3/4	3,711.88	3/4	3,431.82	3/4	3,079.82	3/4	2,716.11	3/4	2,352.40
11		11		11		11		11	4,239.03	11	3,979.73	11	3,706.08	11	3,425.99	11	3,072.24	11	2,708.53	11	2,344.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,233.75	1/4	3,974.13	1/4	3,700.25	1/4	3,420.15	1/4	3,064.66	1/4	2,700.95	1/4	2,337.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,228.48	1/2	3,968.54	1/2	3,694.42	1/2	3,414.31	1/2	3,057.09	1/2	2,693.38	1/2	2,329.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,223.20	3/4	3,962.95	3/4	3,688.60	3/4	3,408.48	3/4	3,049.51	3/4	2,685.80	3/4	2,322.09

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'-10" OFF CENTERLINE AND 52'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,314.51	0	1,950.80	0	1,587.13	0	1,227.95	0	873.15	0	516.60	0	151.88	0		0		0	
1/4	2,306.93	1/4	1,943.22	1/4	1,579.57	1/4	1,220.39	1/4	865.79	1/4	509.00	1/4	144.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,299.36	1/2	1,935.64	1/2	1,572.02	1/2	1,212.83	1/2	858.43	1/2	501.40	1/2	137.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,291.78	3/4	1,928.07	3/4	1,564.46	3/4	1,205.26	3/4	851.07	3/4	493.80	3/4	130.03	3/4	3/4	3/4	3/4	3/4	3/4
1	2,284.20	1	1,920.49	1	1,556.91	1	1,197.70	1	843.71	1	486.20	1	122.75	1		1		1	
1/4	2,276.62	1/4	1,912.91	1/4	1,549.36	1/4	1,190.14	1/4	836.33	1/4	478.61	1/4	116.42	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,269.05	1/2	1,905.33	1/2	1,541.80	1/2	1,182.58	1/2	828.96	1/2	471.01	1/2	110.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,261.47	3/4	1,897.76	3/4	1,534.25	3/4	1,175.01	3/4	821.58	3/4	463.41	3/4	103.76	3/4	3/4	3/4	3/4	3/4	3/4
2	2,253.89	2	1,890.18	2	1,526.69	2	1,167.45	2	814.21	2	455.81	2	97.43	2		2		2	
1/4	2,246.31	1/4	1,882.60	1/4	1,519.14	1/4	1,160.00	1/4	806.82	1/4	448.21	1/4	92.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,238.74	1/2	1,875.02	1/2	1,511.59	1/2	1,152.54	1/2	799.43	1/2	440.62	1/2	87.31	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,231.16	3/4	1,867.45	3/4	1,504.03	3/4	1,145.08	3/4	792.05	3/4	433.02	3/4	82.25	3/4	3/4	3/4	3/4	3/4	3/4
3	2,223.58	3	1,859.87	3	1,496.48	3	1,137.62	3	784.66	3	425.42	3	77.19	3		3		3	
1/4	2,216.01	1/4	1,852.29	1/4	1,488.92	1/4	1,130.28	1/4	777.27	1/4	417.82	1/4	73.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,208.43	1/2	1,844.71	1/2	1,481.37	1/2	1,122.93	1/2	769.88	1/2	410.22	1/2	69.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,200.85	3/4	1,837.14	3/4	1,473.82	3/4	1,115.58	3/4	762.50	3/4	402.62	3/4	65.85	3/4	3/4	3/4	3/4	3/4	3/4
4	2,193.27	4	1,829.56	4	1,466.26	4	1,108.23	4	755.11	4	395.03	4	62.07	4		4		4	
1/4	2,185.70	1/4	1,821.98	1/4	1,458.79	1/4	1,100.89	1/4	747.72	1/4	387.43	1/4	59.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,178.12	1/2	1,814.40	1/2	1,451.32	1/2	1,093.55	1/2	740.33	1/2	379.83	1/2	57.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,170.54	3/4	1,806.83	3/4	1,443.84	3/4	1,086.21	3/4	732.95	3/4	372.23	3/4	54.58	3/4	3/4	3/4	3/4	3/4	3/4
5	2,162.96	5	1,799.25	5	1,436.37	5	1,078.86	5	725.56	5	364.63	5	52.08	5		5		5	
1/4	2,155.39	1/4	1,791.67	1/4	1,428.97	1/4	1,071.52	1/4	718.17	1/4	357.03	1/4	50.88	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,147.81	1/2	1,784.09	1/2	1,421.56	1/2	1,064.18	1/2	710.78	1/2	349.44	1/2	49.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,140.23	3/4	1,776.52	3/4	1,414.16	3/4	1,056.84	3/4	703.40	3/4	341.84	3/4	48.48	3/4	3/4	3/4	3/4	3/4	3/4
6	2,132.66	6	1,768.94	6	1,406.75	6	1,049.50	6	696.01	6	334.24	6	47.29	6		6		6	
1/4	2,125.08	1/4	1,761.36	1/4	1,399.34	1/4	1,042.16	1/4	688.62	1/4	326.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,117.50	1/2	1,753.78	1/2	1,391.92	1/2	1,034.82	1/2	681.23	1/2	319.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,109.92	3/4	1,746.21	3/4	1,384.51	3/4	1,027.48	3/4	673.85	3/4	311.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,102.35	7	1,738.63	7	1,377.09	7	1,020.14	7	666.46	7	303.85	7	7	7		7		7	
1/4	2,094.77	1/4	1,731.05	1/4	1,369.67	1/4	1,012.80	1/4	659.07	1/4	296.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,087.19	1/2	1,723.47	1/2	1,362.26	1/2	1,005.46	1/2	651.68	1/2	288.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,079.61	3/4	1,715.90	3/4	1,354.84	3/4	998.12	3/4	644.30	3/4	281.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,072.04	8	1,708.32	8	1,347.42	8	990.78	8	636.91	8	273.45	8		8		8		8	
1/4	2,064.46	1/4	1,700.74	1/4	1,340.01	1/4	983.44	1/4	629.52	1/4	265.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,056.88	1/2	1,693.16	1/2	1,332.59	1/2	976.10	1/2	622.13	1/2	258.26	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,049.30	3/4	1,685.59	3/4	1,325.17	3/4	968.76	3/4	614.75	3/4	250.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,041.73	9	1,678.01	9	1,317.76	9	961.42	9	607.36	9	243.06	9		9		9		9	
1/4	2,034.15	1/4	1,670.43	1/4	1,310.35	1/4	954.07	1/4	599.86	1/4	235.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,026.57	1/2	1,662.85	1/2	1,302.94	1/2	946.72	1/2	592.37	1/2	227.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,019.00	3/4	1,655.28	3/4	1,295.53	3/4	939.37	3/4	584.88	3/4	220.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,011.42	10	1,647.70	10	1,288.12	10	932.02	10	577.38	10	212.67	10		10		10		10	
1/4	2,003.84	1/4	1,640.12	1/4	1,280.64	1/4	924.66	1/4	569.79	1/4	205.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,996.26	1/2	1,632.54	1/2	1,273.16	1/2	917.30	1/2	562.19	1/2	197.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,988.69	3/4	1,624.97	3/4	1,265.68	3/4	909.94	3/4	554.59	3/4	189.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,981.11	11	1,617.39	11	1,258.20	11	902.58	11	546.99	11	182.27	11		11		11		11	
1/4	1,973.53	1/4	1,609.82	1/4	1,250.64	1/4	895.23	1/4	539.39	1/4	174.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,965.95	1/2	1,602.26	1/2	1,243.07	1/2	887.87	1/2	531.79	1/2	167.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,958.38	3/4	1,594.69	3/4	1,235.51	3/4	880.51	3/4	524.20	3/4	159.48	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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



# BARGE "KIRBY 28081"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,245.08	0	3,984.89	0	3,710.61	0	3,430.55	0	3,071.24	0	2,706.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,493.60	1/4	4,239.81	1/4	3,979.30	1/4	3,704.78	1/4	3,424.71	1/4	3,063.65	1/4	2,699.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,488.87	1/2	4,234.52	1/2	3,973.68	1/2	3,698.95	1/2	3,418.00	1/2	3,056.05	1/2	2,691.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.13	3/4	4,229.22	3/4	3,968.07	3/4	3,693.12	3/4	3,411.28	3/4	3,048.46	3/4	2,683.87
1		1		1		1		1	4,479.40	1	4,223.93	1	3,962.46	1	3,687.28	1	3,404.57	1	3,040.86	1	2,676.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.67	1/4	4,218.64	1/4	3,956.84	1/4	3,681.45	1/4	3,397.85	1/4	3,033.27	1/4	2,668.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,469.63	1/2	4,213.33	1/2	3,951.21	1/2	3,675.62	1/2	3,390.25	1/2	3,025.67	1/2	2,661.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,464.59	3/4	4,208.02	3/4	3,945.58	3/4	3,669.78	3/4	3,382.66	3/4	3,018.07	3/4	2,653.49
2		2		2		2		2	4,459.56	2	4,202.71	2	3,939.95	2	3,663.95	2	3,375.06	2	3,010.48	2	2,645.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,454.52	1/4	4,197.40	1/4	3,934.31	1/4	3,658.11	1/4	3,367.47	1/4	3,002.88	1/4	2,638.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,448.84	1/2	4,192.07	1/2	3,928.66	1/2	3,652.28	1/2	3,359.87	1/2	2,995.29	1/2	2,630.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,443.17	3/4	4,186.74	3/4	3,923.01	3/4	3,646.44	3/4	3,352.28	3/4	2,987.69	3/4	2,623.11
3		3		3		3		3	4,437.50	3	4,181.41	3	3,917.35	3	3,640.61	3	3,344.68	3	2,980.10	3	2,615.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,431.83	1/4	4,176.08	1/4	3,911.70	1/4	3,634.77	1/4	3,337.09	1/4	2,972.50	1/4	2,607.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.08	1/2	4,170.73	1/2	3,906.03	1/2	3,628.94	1/2	3,329.49	1/2	2,964.91	1/2	2,600.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,420.33	3/4	4,165.38	3/4	3,900.36	3/4	3,623.10	3/4	3,321.89	3/4	2,957.31	3/4	2,592.73
4		4		4		4		4	4,414.58	4	4,160.03	4	3,894.69	4	3,617.27	4	3,314.30	4	2,949.72	4	2,585.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,408.83	1/4	4,154.68	1/4	3,889.02	1/4	3,611.43	1/4	3,306.70	1/4	2,942.12	1/4	2,577.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,403.23	1/2	4,149.32	1/2	3,883.33	1/2	3,605.60	1/2	3,299.11	1/2	2,934.52	1/2	2,569.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,397.63	3/4	4,143.95	3/4	3,877.64	3/4	3,599.76	3/4	3,291.51	3/4	2,926.93	3/4	2,562.34
5		5		5		5		5	4,392.02	5	4,138.58	5	3,871.95	5	3,593.93	5	3,283.92	5	2,919.33	5	2,554.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,386.42	1/4	4,133.21	1/4	3,866.26	1/4	3,588.09	1/4	3,276.32	1/4	2,911.74	1/4	2,547.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,381.11	1/2	4,127.82	1/2	3,860.55	1/2	3,582.26	1/2	3,268.73	1/2	2,904.14	1/2	2,539.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,375.81	3/4	4,122.43	3/4	3,854.84	3/4	3,576.42	3/4	3,261.13	3/4	2,896.55	3/4	2,531.96
6		6		6		6		6	4,370.50	6	4,117.04	6	3,849.14	6	3,570.59	6	3,253.54	6	2,888.95	6	2,524.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,365.19	1/4	4,111.65	1/4	3,843.43	1/4	3,564.75	1/4	3,245.94	1/4	2,881.36	1/4	2,516.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,360.01	1/2	4,106.25	1/2	3,837.70	1/2	3,558.92	1/2	3,238.34	1/2	2,873.76	1/2	2,509.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,354.84	3/4	4,100.84	3/4	3,831.97	3/4	3,553.08	3/4	3,230.75	3/4	2,866.16	3/4	2,501.58
7		7		7		7		7	4,349.67	7	4,095.43	7	3,826.25	7	3,547.25	7	3,223.15	7	2,858.57	7	2,493.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,344.49	1/4	4,090.02	1/4	3,820.52	1/4	3,541.41	1/4	3,215.56	1/4	2,850.97	1/4	2,486.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,339.30	1/2	4,084.57	1/2	3,814.77	1/2	3,535.58	1/2	3,207.96	1/2	2,843.38	1/2	2,478.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,334.10	3/4	4,079.12	3/4	3,809.02	3/4	3,529.74	3/4	3,200.37	3/4	2,835.78	3/4	2,471.20
8		8		8		8		8	4,328.91	8	4,073.67	8	3,803.28	8	3,523.91	8	3,192.77	8	2,828.19	8	2,463.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,323.71	1/4	4,068.22	1/4	3,797.53	1/4	3,518.07	1/4	3,185.18	1/4	2,820.59	1/4	2,456.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,318.50	1/2	4,062.71	1/2	3,791.76	1/2	3,512.24	1/2	3,177.58	1/2	2,813.00	1/2	2,448.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,313.29	3/4	4,057.20	3/4	3,785.99	3/4	3,506.40	3/4	3,169.98	3/4	2,805.40	3/4	2,440.82
9		9		9		9		9	4,308.07	9	4,051.68	9	3,780.23	9	3,500.57	9	3,162.39	9	2,797.81	9	2,433.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,302.86	1/4	4,046.17	1/4	3,774.46	1/4	3,494.73	1/4	3,154.79	1/4	2,790.21	1/4	2,425.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,297.62	1/2	4,040.62	1/2	3,768.67	1/2	3,488.90	1/2	3,147.20	1/2	2,782.61	1/2	2,418.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,292.39	3/4	4,035.07	3/4	3,762.88	3/4	3,483.06	3/4	3,139.60	3/4	2,775.02	3/4	2,410.43
10		10		10		10		10	4,287.16	10	4,029.51	10	3,757.10	10	3,477.23	10	3,132.01	10	2,767.42	10	2,402.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,281.92	1/4	4,023.96	1/4	3,751.31	1/4	3,471.39	1/4	3,124.41	1/4	2,759.83	1/4	2,395.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,276.67	1/2	4,018.39	1/2	3,745.50	1/2	3,465.56	1/2	3,116.82	1/2	2,752.23	1/2	2,387.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,271.41	3/4	4,012.81	3/4	3,739.69	3/4	3,459.72	3/4	3,109.22	3/4	2,744.64	3/4	2,380.05
11		11		11		11		11	4,266.16	11	4,007.24	11	3,733.89	11	3,453.89	11	3,101.63	11	2,737.04	11	2,372.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,260.90	1/4	4,001.67	1/4	3,728.08	1/4	3,448.05	1/4	3,094.03	1/4	2,729.45	1/4	2,364.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,255.63	1/2	3,996.07	1/2	3,722.25	1/2	3,442.22	1/2	3,086.43	1/2	2,721.85	1/2	2,357.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,250.36	3/4	3,990.48	3/4	3,716.43	3/4	3,436.38	3/4	3,078.84	3/4	2,714.25	3/4	2,349.67

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'-10" OFF CENTERLINE AND 52'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28081"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	2,342.08	0	1,977.49	0	1,612.89	0	1,252.18	0	888.50	0	524.07	0	159.44	0		0		0	
1/4	2,334.48	1/4	1,969.90	1/4	1,605.30	1/4	1,244.59	1/4	880.94	1/4	516.48	1/4	151.84	1/4		1/4		1/4	
1/2	2,326.88	1/2	1,962.30	1/2	1,597.70	1/2	1,236.99	1/2	873.37	1/2	508.88	1/2	144.56	1/2		1/2		1/2	
3/4	2,319.29	3/4	1,954.70	3/4	1,590.11	3/4	1,229.39	3/4	865.80	3/4	501.28	3/4	137.28	3/4		3/4		3/4	
1	2,311.69	1	1,947.11	1	1,582.51	1	1,221.80	1	858.23	1	493.69	1	130.00	1		1		1	
1/4	2,304.10	1/4	1,939.51	1/4	1,574.92	1/4	1,214.20	1/4	850.66	1/4	486.09	1/4	122.72	1/4		1/4		1/4	
1/2	2,296.50	1/2	1,931.91	1/2	1,567.32	1/2	1,206.60	1/2	843.08	1/2	478.49	1/2	116.39	1/2		1/2		1/2	
3/4	2,288.91	3/4	1,924.32	3/4	1,559.73	3/4	1,199.01	3/4	835.49	3/4	470.90	3/4	110.07	3/4		3/4		3/4	
2	2,281.31	2	1,916.72	2	1,552.13	2	1,191.41	2	827.91	2	463.30	2	103.74	2		2		2	
1/4	2,273.72	1/4	1,909.13	1/4	1,544.53	1/4	1,183.81	1/4	820.33	1/4	455.70	1/4	97.41	1/4		1/4		1/4	
1/2	2,266.12	1/2	1,901.53	1/2	1,536.94	1/2	1,176.22	1/2	812.73	1/2	448.11	1/2	92.35	1/2		1/2		1/2	
3/4	2,258.52	3/4	1,893.94	3/4	1,529.34	3/4	1,168.62	3/4	805.13	3/4	440.51	3/4	87.29	3/4		3/4		3/4	
3	2,250.93	3	1,886.34	3	1,521.75	3	1,161.02	3	797.54	3	432.91	3	82.23	3		3		3	
1/4	2,243.33	1/4	1,878.74	1/4	1,514.15	1/4	1,153.43	1/4	789.94	1/4	425.32	1/4	77.18	1/4		1/4		1/4	
1/2	2,235.74	1/2	1,871.15	1/2	1,506.56	1/2	1,145.84	1/2	782.34	1/2	417.72	1/2	73.40	1/2		1/2		1/2	
3/4	2,228.14	3/4	1,863.55	3/4	1,498.96	3/4	1,138.26	3/4	774.75	3/4	410.12	3/4	69.61	3/4		3/4		3/4	
4	2,220.55	4	1,855.96	4	1,491.36	4	1,130.68	4	767.15	4	402.53	4	65.83	4		4		4	
1/4	2,212.95	1/4	1,848.36	1/4	1,483.77	1/4	1,123.09	1/4	759.56	1/4	394.93	1/4	62.05	1/4		1/4		1/4	
1/2	2,205.36	1/2	1,840.77	1/2	1,476.25	1/2	1,115.52	1/2	751.96	1/2	387.34	1/2	59.56	1/2		1/2		1/2	
3/4	2,197.76	3/4	1,833.17	3/4	1,468.74	3/4	1,107.96	3/4	744.36	3/4	379.74	3/4	57.06	3/4		3/4		3/4	
5	2,190.17	5	1,825.57	5	1,461.22	5	1,100.39	5	736.77	5	372.14	5	54.56	5		5		5	
1/4	2,182.57	1/4	1,817.98	1/4	1,453.71	1/4	1,092.82	1/4	729.17	1/4	364.55	1/4	52.07	1/4		1/4		1/4	
1/2	2,174.97	1/2	1,810.38	1/2	1,446.28	1/2	1,085.25	1/2	721.58	1/2	356.95	1/2	50.87	1/2		1/2		1/2	
3/4	2,167.38	3/4	1,802.79	3/4	1,438.84	3/4	1,077.68	3/4	713.98	3/4	349.35	3/4	49.67	3/4		3/4		3/4	
6	2,159.78	6	1,795.19	6	1,431.41	6	1,070.12	6	706.38	6	341.76	6	48.47	6		6		6	
1/4	2,152.19	1/4	1,787.60	1/4	1,423.97	1/4	1,062.55	1/4	698.79	1/4	334.16	1/4	47.27	1/4		1/4		1/4	
1/2	2,144.59	1/2	1,780.00	1/2	1,416.54	1/2	1,054.98	1/2	691.19	1/2	326.56	1/2		1/2		1/2		1/2	
3/4	2,137.00	3/4	1,772.40	3/4	1,409.11	3/4	1,047.41	3/4	683.60	3/4	318.97	3/4		3/4		3/4		3/4	
7	2,129.40	7	1,764.81	7	1,401.67	7	1,039.85	7	676.00	7	311.37	7		7		7		7	
1/4	2,121.81	1/4	1,757.21	1/4	1,394.24	1/4	1,032.28	1/4	668.40	1/4	303.77	1/4		1/4		1/4		1/4	
1/2	2,114.21	1/2	1,749.62	1/2	1,386.81	1/2	1,024.71	1/2	660.81	1/2	296.18	1/2		1/2		1/2		1/2	
3/4	2,106.61	3/4	1,742.02	3/4	1,379.37	3/4	1,017.15	3/4	653.21	3/4	288.58	3/4		3/4		3/4		3/4	
8	2,099.02	8	1,734.43	8	1,371.94	8	1,009.58	8	645.61	8	280.98	8		8		8		8	
1/4	2,091.42	1/4	1,726.83	1/4	1,364.50	1/4	1,002.01	1/4	638.02	1/4	273.39	1/4		1/4		1/4		1/4	
1/2	2,083.83	1/2	1,719.23	1/2	1,357.07	1/2	994.44	1/2	630.42	1/2	265.79	1/2		1/2		1/2		1/2	
3/4	2,076.23	3/4	1,711.64	3/4	1,349.64	3/4	986.88	3/4	622.83	3/4	258.19	3/4		3/4		3/4		3/4	
9	2,068.64	9	1,704.04	9	1,342.20	9	979.31	9	615.23	9	250.60	9		9		9		9	
1/4	2,061.04	1/4	1,696.45	1/4	1,334.77	1/4	971.74	1/4	607.63	1/4	243.00	1/4		1/4		1/4		1/4	
1/2	2,053.45	1/2	1,688.85	1/2	1,327.33	1/2	964.17	1/2	600.04	1/2	235.41	1/2		1/2		1/2		1/2	
3/4	2,045.85	3/4	1,681.26	3/4	1,319.90	3/4	956.61	3/4	592.44	3/4	227.81	3/4		3/4		3/4		3/4	
10	2,038.26	10	1,673.66	10	1,312.47	10	949.04	10	584.84	10	220.21	10		10		10		10	
1/4	2,030.66	1/4	1,666.06	1/4	1,305.03	1/4	941.47	1/4	577.25	1/4	212.62	1/4		1/4		1/4		1/4	
1/2	2,023.06	1/2	1,658.47	1/2	1,297.52	1/2	933.91	1/2	569.65	1/2	205.02	1/2		1/2		1/2		1/2	
3/4	2,015.47	3/4	1,650.87	3/4	1,290.00	3/4	926.34	3/4	562.05	3/4	197.42	3/4		3/4		3/4		3/4	
11	2,007.87	11	1,643.28	11	1,282.49	11	918.77	11	554.46	11	189.83	11		11		11		11	
1/4	2,000.28	1/4	1,635.68	1/4	1,274.97	1/4	911.20	1/4	546.86	1/4	182.23	1/4		1/4		1/4		1/4	
1/2	1,992.68	1/2	1,628.09	1/2	1,267.37	1/2	903.64	1/2	539.27	1/2	174.63	1/2		1/2		1/2		1/2	
3/4	1,985.09	3/4	1,620.49	3/4	1,259.78	3/4	896.07	3/4	531.67	3/4	167.04	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2006 CL - SW  
CALCULATED: 08/16/2006 CL  
PRINTED: 08/17/2006 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2006

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