



# BARGE "KIRBY 28169"

## 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	00-3/8	- 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
1 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
2 PORT	00-2/4	- 00-2/4	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 STBD	00-2/4	- 00-2/4	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 PORT	00-2/4	- 00-2/4	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	00-2/4	- 00-2/4	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

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

LENGTH BETWEEN DRAFT MARKS: 241'-06"

April 21, 2011

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28169"

## 1 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	4,836.32	0	4,510.88	0	4,177.82	0	3,821.09	0	3,454.77	0	3,088.45	0	2,722.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,830.68	1/4	4,504.19	1/4	4,170.61	1/4	3,813.46	1/4	3,447.14	1/4	3,080.82	1/4	2,714.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,825.04	1/2	4,497.50	1/2	4,163.39	1/2	3,805.83	1/2	3,439.51	1/2	3,073.19	1/2	2,706.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.21	3/4	4,490.78	3/4	4,156.14	3/4	3,798.20	3/4	3,431.88	3/4	3,065.55	3/4	2,699.23
1	1	1	1	1	1	1	4,811.38	1	4,484.06	1	4,148.89	1	3,790.57	1	3,424.24	1	3,057.92	1	2,691.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,804.55	1/4	4,477.34	1/4	4,141.63	1/4	3,782.93	1/4	3,416.61	1/4	3,050.29	1/4	2,683.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,797.71	1/2	4,470.62	1/2	4,134.38	1/2	3,775.30	1/2	3,408.98	1/2	3,042.66	1/2	2,676.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,790.25	3/4	4,463.86	3/4	4,127.09	3/4	3,767.67	3/4	3,401.35	3/4	3,035.03	3/4	2,668.71
2	2	2	2	2	2	2	4,782.78	2	4,457.10	2	4,119.80	2	3,760.04	2	3,393.72	2	3,027.40	2	2,661.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,775.31	1/4	4,450.35	1/4	4,112.51	1/4	3,752.41	1/4	3,386.09	1/4	3,019.76	1/4	2,653.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,767.85	1/2	4,443.59	1/2	4,105.22	1/2	3,744.78	1/2	3,378.45	1/2	3,012.13	1/2	2,645.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,760.30	3/4	4,436.79	3/4	4,097.89	3/4	3,737.14	3/4	3,370.82	3/4	3,004.50	3/4	2,638.18
3	3	3	3	3	3	3	4,752.75	3	4,430.00	3	4,090.57	3	3,729.51	3	3,363.19	3	2,996.87	3	2,630.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,745.20	1/4	4,423.21	1/4	4,083.24	1/4	3,721.88	1/4	3,355.56	1/4	2,989.24	1/4	2,622.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,737.66	1/2	4,416.41	1/2	4,075.92	1/2	3,714.25	1/2	3,347.93	1/2	2,981.61	1/2	2,615.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,730.39	3/4	4,409.58	3/4	4,068.56	3/4	3,706.62	3/4	3,340.30	3/4	2,973.97	3/4	2,607.65
4	4	4	4	4	4	4	4,723.12	4	4,402.75	4	4,061.20	4	3,698.99	4	3,332.66	4	2,966.34	4	2,600.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,715.85	1/4	4,395.92	1/4	4,053.84	1/4	3,691.35	1/4	3,325.03	1/4	2,958.71	1/4	2,592.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,708.59	1/2	4,389.08	1/2	4,046.48	1/2	3,683.72	1/2	3,317.40	1/2	2,951.08	1/2	2,584.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,701.87	3/4	4,382.21	3/4	4,039.09	3/4	3,676.09	3/4	3,309.77	3/4	2,943.45	3/4	2,577.13
5	5	5	5	5	5	5	4,695.15	5	4,375.35	5	4,031.70	5	3,668.46	5	3,302.14	5	2,935.82	5	2,569.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,688.43	1/4	4,368.48	1/4	4,024.30	1/4	3,660.83	1/4	3,294.51	1/4	2,928.18	1/4	2,561.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,681.71	1/2	4,361.61	1/2	4,016.91	1/2	3,653.20	1/2	3,286.87	1/2	2,920.55	1/2	2,554.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,675.25	3/4	4,354.70	3/4	4,009.48	3/4	3,645.56	3/4	3,279.24	3/4	2,912.92	3/4	2,546.60
6	6	6	6	6	6	6	4,668.78	6	4,347.79	6	4,002.05	6	3,637.93	6	3,271.61	6	2,905.29	6	2,538.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.31	1/4	4,340.89	1/4	3,994.62	1/4	3,630.30	1/4	3,263.98	1/4	2,897.66	1/4	2,531.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,655.84	1/2	4,333.98	1/2	3,987.19	1/2	3,622.67	1/2	3,256.35	1/2	2,890.03	1/2	2,523.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.34	3/4	4,327.02	3/4	3,979.72	3/4	3,615.04	3/4	3,248.72	3/4	2,882.39	3/4	2,516.07
7	7	7	7	7	7	7	4,642.84	7	4,320.05	7	3,972.25	7	3,607.41	7	3,241.08	7	2,874.76	7	2,508.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,636.33	1/4	4,313.09	1/4	3,964.78	1/4	3,599.77	1/4	3,233.45	1/4	2,867.13	1/4	2,500.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,629.83	1/2	4,306.12	1/2	3,957.32	1/2	3,592.14	1/2	3,225.82	1/2	2,859.50	1/2	2,493.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,623.28	3/4	4,299.08	3/4	3,949.81	3/4	3,584.51	3/4	3,218.19	3/4	2,851.87	3/4	2,485.55
8	8	8	8	8	8	8	4,616.74	8	4,292.03	8	3,942.30	8	3,576.88	8	3,210.56	8	2,844.24	8	2,477.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,610.20	1/4	4,284.99	1/4	3,934.80	1/4	3,569.25	1/4	3,202.93	1/4	2,836.60	1/4	2,470.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,603.66	1/2	4,277.94	1/2	3,927.29	1/2	3,561.62	1/2	3,195.29	1/2	2,828.97	1/2	2,462.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,597.08	3/4	4,270.84	3/4	3,919.75	3/4	3,553.98	3/4	3,187.66	3/4	2,821.34	3/4	2,455.02
9	9	9	9	9	9	9	4,590.50	9	4,263.74	9	3,912.21	9	3,546.35	9	3,180.03	9	2,813.71	9	2,447.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,583.92	1/4	4,256.63	1/4	3,904.67	1/4	3,538.72	1/4	3,172.40	1/4	2,806.08	1/4	2,439.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,577.34	1/2	4,249.53	1/2	3,897.12	1/2	3,531.09	1/2	3,164.77	1/2	2,798.45	1/2	2,432.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,570.73	3/4	4,242.39	3/4	3,889.54	3/4	3,523.46	3/4	3,157.14	3/4	2,790.81	3/4	2,424.49
10	10	10	10	10	10	10	4,564.11	10	4,235.25	10	3,881.96	10	3,515.83	10	3,149.50	10	2,783.18	10	2,416.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,557.49	1/4	4,228.11	1/4	3,874.38	1/4	3,508.19	1/4	3,141.87	1/4	2,775.55	1/4	2,409.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,550.88	1/2	4,220.97	1/2	3,866.80	1/2	3,500.56	1/2	3,134.24	1/2	2,767.92	1/2	2,401.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.22	3/4	4,213.79	3/4	3,859.19	3/4	3,492.93	3/4	3,126.61	3/4	2,760.29	3/4	2,393.97
11	11	11	11	11	11	11	4,537.57	11	4,206.61	11	3,851.58	11	3,485.30	11	3,118.98	11	2,752.66	11	2,386.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,530.91	1/4	4,199.43	1/4	3,843.97	1/4	3,477.67	1/4	3,111.35	1/4	2,745.02	1/4	2,378.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,524.26	1/2	4,192.25	1/2	3,836.35	1/2	3,470.04	1/2	3,103.71	1/2	2,737.39	1/2	2,371.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,517.57	3/4	4,185.04	3/4	3,828.72	3/4	3,462.40	3/4	3,096.08	3/4	2,729.76	3/4	2,363.44

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 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28169"

## 1 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,355.81	0	1,989.49	0	1,623.15	0	1,257.47	0	893.30	0	527.28	0	181.53	0		0		0	
1/4	2,348.18	1/4	1,981.85	1/4	1,615.52	1/4	1,249.83	1/4	885.72	1/4	519.65	1/4	174.83	1/4	1/4	1/4		1/4	
1/2	2,340.54	1/2	1,974.22	1/2	1,607.89	1/2	1,242.20	1/2	878.14	1/2	512.01	1/2	168.13	1/2	1/2	1/2		1/2	
3/4	2,332.91	3/4	1,966.59	3/4	1,600.25	3/4	1,234.57	3/4	870.55	3/4	504.40	3/4	161.52	3/4	3/4	3/4		3/4	
1	2,325.28	1	1,958.96	1	1,592.62	1	1,226.94	1	862.96	1	496.79	1	154.90	1	1	1		1	
1/4	2,317.65	1/4	1,951.33	1/4	1,584.99	1/4	1,219.30	1/4	855.37	1/4	489.18	1/4	148.29	1/4	1/4	1/4		1/4	
1/2	2,310.02	1/2	1,943.69	1/2	1,577.36	1/2	1,211.67	1/2	847.78	1/2	481.57	1/2	141.68	1/2	1/2	1/2		1/2	
3/4	2,302.38	3/4	1,936.06	3/4	1,569.73	3/4	1,204.05	3/4	840.16	3/4	474.02	3/4	135.16	3/4	3/4	3/4		3/4	
2	2,294.75	2	1,928.43	2	1,562.09	2	1,196.44	2	832.55	2	466.47	2	128.64	2	2	2		2	
1/4	2,287.12	1/4	1,920.80	1/4	1,554.46	1/4	1,188.82	1/4	824.93	1/4	458.92	1/4	122.12	1/4	1/4	1/4		1/4	
1/2	2,279.49	1/2	1,913.17	1/2	1,546.83	1/2	1,181.20	1/2	817.31	1/2	451.37	1/2	115.60	1/2	1/2	1/2		1/2	
3/4	2,271.86	3/4	1,905.53	3/4	1,539.20	3/4	1,173.61	3/4	809.68	3/4	443.91	3/4	109.18	3/4	3/4	3/4		3/4	
3	2,264.23	3	1,897.90	3	1,531.57	3	1,166.02	3	802.05	3	436.45	3	102.76	3	3	3		3	
1/4	2,256.59	1/4	1,890.27	1/4	1,523.93	1/4	1,158.43	1/4	794.41	1/4	428.99	1/4	96.33	1/4	1/4	1/4		1/4	
1/2	2,248.96	1/2	1,882.64	1/2	1,516.30	1/2	1,150.84	1/2	786.78	1/2	421.52	1/2	89.91	1/2	1/2	1/2		1/2	
3/4	2,241.33	3/4	1,875.01	3/4	1,508.67	3/4	1,143.26	3/4	779.15	3/4	414.14	3/4	83.59	3/4	3/4	3/4		3/4	
4	2,233.70	4	1,867.37	4	1,501.04	4	1,135.68	4	771.52	4	406.77	4	77.27	4	4	4		4	
1/4	2,226.07	1/4	1,859.74	1/4	1,493.41	1/4	1,128.11	1/4	763.88	1/4	399.39	1/4	70.95	1/4	1/4	1/4		1/4	
1/2	2,218.44	1/2	1,852.11	1/2	1,485.77	1/2	1,120.53	1/2	756.25	1/2	392.01	1/2	64.64	1/2	1/2	1/2		1/2	
3/4	2,210.80	3/4	1,844.48	3/4	1,478.16	3/4	1,112.96	3/4	748.62	3/4	384.72	3/4	58.44	3/4	3/4	3/4		3/4	
5	2,203.17	5	1,836.85	5	1,470.54	5	1,105.38	5	740.99	5	377.42	5	52.24	5	5	5		5	
1/4	2,195.54	1/4	1,829.21	1/4	1,462.92	1/4	1,097.81	1/4	733.36	1/4	370.13	1/4	46.04	1/4	1/4	1/4		1/4	
1/2	2,187.91	1/2	1,821.58	1/2	1,455.30	1/2	1,090.23	1/2	725.72	1/2	362.84	1/2	39.84	1/2	1/2	1/2		1/2	
3/4	2,180.28	3/4	1,813.95	3/4	1,447.70	3/4	1,082.66	3/4	718.09	3/4	355.63	3/4	34.33	3/4	3/4	3/4		3/4	
6	2,172.65	6	1,806.32	6	1,440.09	6	1,075.08	6	710.46	6	348.42	6	28.83	6	6	6		6	
1/4	2,165.01	1/4	1,798.69	1/4	1,432.49	1/4	1,067.51	1/4	702.83	1/4	341.21	1/4	23.33	1/4	1/4	1/4		1/4	
1/2	2,157.38	1/2	1,791.05	1/2	1,424.88	1/2	1,059.94	1/2	695.19	1/2	334.00	1/2	17.82	1/2	1/2	1/2		1/2	
3/4	2,149.75	3/4	1,783.42	3/4	1,417.28	3/4	1,052.36	3/4	687.56	3/4	326.88	3/4	14.26	3/4	3/4	3/4		3/4	
7	2,142.12	7	1,775.79	7	1,409.68	7	1,044.79	7	679.93	7	319.76	7	10.70	7	7	7		7	
1/4	2,134.49	1/4	1,768.16	1/4	1,402.07	1/4	1,037.21	1/4	672.30	1/4	312.63	1/4	7.15	1/4	1/4	1/4		1/4	
1/2	2,126.86	1/2	1,760.53	1/2	1,394.47	1/2	1,029.64	1/2	664.67	1/2	305.51	1/2	3.59	1/2	1/2	1/2		1/2	
3/4	2,119.22	3/4	1,752.89	3/4	1,386.86	3/4	1,022.06	3/4	657.03	3/4	298.47	3/4		3/4	3/4	3/4		3/4	
8	2,111.59	8	1,745.26	8	1,379.26	8	1,014.49	8	649.40	8	291.43	8		8	8	8		8	
1/4	2,103.96	1/4	1,737.63	1/4	1,371.65	1/4	1,006.92	1/4	641.77	1/4	284.39	1/4		1/4	1/4	1/4		1/4	
1/2	2,096.33	1/2	1,730.00	1/2	1,364.05	1/2	999.34	1/2	634.14	1/2	277.35	1/2		1/2	1/2	1/2		1/2	
3/4	2,088.70	3/4	1,722.37	3/4	1,356.44	3/4	991.77	3/4	626.50	3/4	270.40	3/4		3/4	3/4	3/4		3/4	
9	2,081.07	9	1,714.73	9	1,348.84	9	984.19	9	618.87	9	263.45	9		9	9	9		9	
1/4	2,073.43	1/4	1,707.10	1/4	1,341.23	1/4	976.62	1/4	611.24	1/4	256.49	1/4		1/4	1/4	1/4		1/4	
1/2	2,065.80	1/2	1,699.47	1/2	1,333.63	1/2	969.04	1/2	603.61	1/2	249.54	1/2		1/2	1/2	1/2		1/2	
3/4	2,058.17	3/4	1,691.84	3/4	1,326.02	3/4	961.47	3/4	595.97	3/4	242.67	3/4		3/4	3/4	3/4		3/4	
10	2,050.54	10	1,684.21	10	1,318.42	10	953.90	10	588.34	10	235.80	10		10	10	10		10	
1/4	2,042.91	1/4	1,676.57	1/4	1,310.81	1/4	946.32	1/4	580.71	1/4	228.93	1/4		1/4	1/4	1/4		1/4	
1/2	2,035.28	1/2	1,668.94	1/2	1,303.21	1/2	938.75	1/2	573.07	1/2	222.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,027.64	3/4	1,661.31	3/4	1,295.59	3/4	931.17	3/4	565.44	3/4	215.28	3/4		3/4	3/4	3/4		3/4	
11	2,020.01	11	1,653.68	11	1,287.97	11	923.60	11	557.81	11	208.49	11		11	11	11		11	
1/4	2,012.38	1/4	1,646.05	1/4	1,280.35	1/4	916.02	1/4	550.18	1/4	201.71	1/4		1/4	1/4	1/4		1/4	
1/2	2,004.75	1/2	1,638.41	1/2	1,272.73	1/2	908.45	1/2	542.54	1/2	194.92	1/2		1/2	1/2	1/2		1/2	
3/4	1,997.12	3/4	1,630.78	3/4	1,265.10	3/4	900.87	3/4	534.91	3/4	188.22	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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 28169"

**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0		0	4,512.26	0	4,179.21	0	3,822.48	0	3,456.16	0	3,089.84	0	2,723.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,505.57	1/4	4,171.99	1/4	3,814.85	1/4	3,448.53	1/4	3,082.21	1/4	2,715.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,826.41	1/2	4,498.89	1/2	4,164.78	1/2	3,807.22	1/2	3,440.90	1/2	3,074.57	1/2	2,708.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,819.58	3/4	4,492.16	3/4	4,157.52	3/4	3,799.59	3/4	3,433.26	3/4	3,066.94	3/4	2,700.62
1	1	1	1	1	1	1	1	1	4,812.75	1	4,485.44	1	4,150.27	1	3,791.95	1	3,425.63	1	3,059.31	1	2,692.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.92	1/4	4,478.72	1/4	4,143.02	1/4	3,784.32	1/4	3,418.00	1/4	3,051.68	1/4	2,685.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,799.09	1/2	4,472.00	1/2	4,135.77	1/2	3,776.69	1/2	3,410.37	1/2	3,044.05	1/2	2,677.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.62	3/4	4,465.24	3/4	4,128.48	3/4	3,769.06	3/4	3,402.74	3/4	3,036.42	3/4	2,670.09
2	2	2	2	2	2	2	2	2	4,784.16	2	4,458.49	2	4,121.19	2	3,761.43	2	3,395.11	2	3,028.78	2	2,662.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,776.69	1/4	4,451.73	1/4	4,113.90	1/4	3,753.80	1/4	3,387.47	1/4	3,021.15	1/4	2,654.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.22	1/2	4,444.97	1/2	4,106.60	1/2	3,746.16	1/2	3,379.84	1/2	3,013.52	1/2	2,647.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.68	3/4	4,438.18	3/4	4,099.28	3/4	3,738.53	3/4	3,372.21	3/4	3,005.89	3/4	2,639.57
3	3	3	3	3	3	3	3	3	4,754.13	3	4,431.38	3	4,091.95	3	3,730.90	3	3,364.58	3	2,998.26	3	2,631.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.58	1/4	4,424.59	1/4	4,084.63	1/4	3,723.27	1/4	3,356.95	1/4	2,990.63	1/4	2,624.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.03	1/2	4,417.79	1/2	4,077.30	1/2	3,715.64	1/2	3,349.31	1/2	2,982.99	1/2	2,616.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.77	3/4	4,410.96	3/4	4,069.95	3/4	3,708.00	3/4	3,341.68	3/4	2,975.36	3/4	2,609.04
4	4	4	4	4	4	4	4	4	4,724.50	4	4,404.13	4	4,062.59	4	3,700.37	4	3,334.05	4	2,967.73	4	2,601.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.23	1/4	4,397.30	1/4	4,055.23	1/4	3,692.74	1/4	3,326.42	1/4	2,960.10	1/4	2,593.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.96	1/2	4,390.47	1/2	4,047.87	1/2	3,685.11	1/2	3,318.79	1/2	2,952.47	1/2	2,586.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,703.25	3/4	4,383.60	3/4	4,040.48	3/4	3,677.48	3/4	3,311.16	3/4	2,944.83	3/4	2,578.51
5	5	5	5	5	5	5	5	5	4,696.53	5	4,376.73	5	4,033.08	5	3,669.85	5	3,303.52	5	2,937.20	5	2,570.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,689.81	1/4	4,369.86	1/4	4,025.69	1/4	3,662.21	1/4	3,295.89	1/4	2,929.57	1/4	2,563.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.09	1/2	4,362.99	1/2	4,018.30	1/2	3,654.58	1/2	3,288.26	1/2	2,921.94	1/2	2,555.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,676.62	3/4	4,356.09	3/4	4,010.87	3/4	3,646.95	3/4	3,280.63	3/4	2,914.31	3/4	2,547.99
6	6	6	6	6	6	6	6	6	4,670.16	6	4,349.18	6	4,003.44	6	3,639.32	6	3,273.00	6	2,906.68	6	2,540.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,663.69	1/4	4,342.27	1/4	3,996.01	1/4	3,631.69	1/4	3,265.37	1/4	2,899.04	1/4	2,532.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,657.22	1/2	4,335.37	1/2	3,988.57	1/2	3,624.06	1/2	3,257.73	1/2	2,891.41	1/2	2,525.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.72	3/4	4,328.40	3/4	3,981.11	3/4	3,616.42	3/4	3,250.10	3/4	2,883.78	3/4	2,517.46
7	7	7	7	7	7	7	7	7	4,644.21	7	4,321.44	7	3,973.64	7	3,608.79	7	3,242.47	7	2,876.15	7	2,509.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.71	1/4	4,314.47	1/4	3,966.17	1/4	3,601.16	1/4	3,234.84	1/4	2,868.52	1/4	2,502.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,631.21	1/2	4,307.51	1/2	3,958.70	1/2	3,593.53	1/2	3,227.21	1/2	2,860.89	1/2	2,494.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.66	3/4	4,300.46	3/4	3,951.20	3/4	3,585.90	3/4	3,219.58	3/4	2,853.25	3/4	2,486.93
8	8	8	8	8	8	8	8	8	4,618.12	8	4,293.42	8	3,943.69	8	3,578.27	8	3,211.94	8	2,845.62	8	2,479.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,611.58	1/4	4,286.37	1/4	3,936.19	1/4	3,570.63	1/4	3,204.31	1/4	2,837.99	1/4	2,471.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,605.04	1/2	4,279.33	1/2	3,928.68	1/2	3,563.00	1/2	3,196.68	1/2	2,830.36	1/2	2,464.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,598.46	3/4	4,272.22	3/4	3,921.14	3/4	3,555.37	3/4	3,189.05	3/4	2,822.73	3/4	2,456.41
9	9	9	9	9	9	9	9	9	4,591.88	9	4,265.12	9	3,913.60	9	3,547.74	9	3,181.42	9	2,815.10	9	2,448.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,585.30	1/4	4,258.02	1/4	3,906.05	1/4	3,540.11	1/4	3,173.79	1/4	2,807.46	1/4	2,441.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,578.72	1/2	4,250.91	1/2	3,898.51	1/2	3,532.48	1/2	3,166.15	1/2	2,799.83	1/2	2,433.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,572.11	3/4	4,243.77	3/4	3,890.93	3/4	3,524.84	3/4	3,158.52	3/4	2,792.20	3/4	2,425.88
10	10	10	10	10	10	10	10	10	4,565.49	10	4,236.63	10	3,883.35	10	3,517.21	10	3,150.89	10	2,784.57	10	2,418.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,558.87	1/4	4,229.49	1/4	3,875.77	1/4	3,509.58	1/4	3,143.26	1/4	2,776.94	1/4	2,410.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,552.26	1/2	4,222.35	1/2	3,868.19	1/2	3,501.95	1/2	3,135.63	1/2	2,769.31	1/2	2,402.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,545.60	3/4	4,215.17	3/4	3,860.58	3/4	3,494.32	3/4	3,128.00	3/4	2,761.67	3/4	2,395.35
11	11	11	11	11	11	11	11	11	4,538.95	11	4,207.99	11	3,852.97	11	3,486.69	11	3,120.36	11	2,754.04	11	2,387.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,532.30	1/4	4,200.82	1/4	3,845.35	1/4	3,479.05	1/4	3,112.73	1/4	2,746.41	1/4	2,380.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,525.64	1/2	4,193.64	1/2	3,837.74	1/2	3,471.42	1/2	3,105.10	1/2	2,738.78	1/2	2,372.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.95	3/4	4,186.42	3/4	3,830.11	3/4	3,463.79	3/4	3,097.47	3/4	2,731.15	3/4	2,364.83

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 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28169"

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,357.19	0	1,990.87	0	1,624.54	0	1,258.85	0	893.52	0	527.27	0	181.52	0		0		0	
1/4	2,349.56	1/4	1,983.24	1/4	1,616.91	1/4	1,251.22	1/4	885.92	1/4	519.64	1/4	174.82	1/4	1/4		1/4		1/4
1/2	2,341.93	1/2	1,975.61	1/2	1,609.27	1/2	1,243.59	1/2	878.31	1/2	512.00	1/2	168.12	1/2	1/2		1/2		1/2
3/4	2,334.30	3/4	1,967.98	3/4	1,601.64	3/4	1,235.96	3/4	870.69	3/4	504.39	3/4	161.51	3/4	3/4		3/4		3/4
1	2,326.67	1	1,960.35	1	1,594.01	1	1,228.32	1	863.07	1	496.78	1	154.90	1	1		1		1
1/4	2,319.04	1/4	1,952.71	1/4	1,586.38	1/4	1,220.69	1/4	855.45	1/4	489.17	1/4	148.29	1/4	1/4		1/4		1/4
1/2	2,311.40	1/2	1,945.08	1/2	1,578.75	1/2	1,213.06	1/2	847.83	1/2	481.56	1/2	141.68	1/2	1/2		1/2		1/2
3/4	2,303.77	3/4	1,937.45	3/4	1,571.11	3/4	1,205.43	3/4	840.20	3/4	474.01	3/4	135.16	3/4	3/4		3/4		3/4
2	2,296.14	2	1,929.82	2	1,563.48	2	1,197.79	2	832.57	2	466.46	2	128.64	2	2		2		2
1/4	2,288.51	1/4	1,922.19	1/4	1,555.85	1/4	1,190.16	1/4	824.93	1/4	458.91	1/4	122.12	1/4	1/4		1/4		1/4
1/2	2,280.88	1/2	1,914.55	1/2	1,548.22	1/2	1,182.53	1/2	817.30	1/2	451.37	1/2	115.60	1/2	1/2		1/2		1/2
3/4	2,273.25	3/4	1,906.92	3/4	1,540.59	3/4	1,174.91	3/4	809.67	3/4	443.90	3/4	109.17	3/4	3/4		3/4		3/4
3	2,265.61	3	1,899.29	3	1,532.95	3	1,167.29	3	802.04	3	436.44	3	102.75	3	3		3		3
1/4	2,257.98	1/4	1,891.66	1/4	1,525.32	1/4	1,159.67	1/4	794.41	1/4	428.98	1/4	96.33	1/4	1/4		1/4		1/4
1/2	2,250.35	1/2	1,884.03	1/2	1,517.69	1/2	1,152.05	1/2	786.77	1/2	421.51	1/2	89.91	1/2	1/2		1/2		1/2
3/4	2,242.72	3/4	1,876.39	3/4	1,510.06	3/4	1,144.44	3/4	779.14	3/4	414.14	3/4	83.59	3/4	3/4		3/4		3/4
4	2,235.09	4	1,868.76	4	1,502.43	4	1,136.84	4	771.51	4	406.76	4	77.27	4	4		4		4
1/4	2,227.46	1/4	1,861.13	1/4	1,494.79	1/4	1,129.23	1/4	763.88	1/4	399.38	1/4	70.95	1/4	1/4		1/4		1/4
1/2	2,219.82	1/2	1,853.50	1/2	1,487.16	1/2	1,121.63	1/2	756.24	1/2	392.00	1/2	64.63	1/2	1/2		1/2		1/2
3/4	2,212.19	3/4	1,845.87	3/4	1,479.54	3/4	1,114.02	3/4	748.61	3/4	384.71	3/4	58.43	3/4	3/4		3/4		3/4
5	2,204.56	5	1,838.23	5	1,471.93	5	1,106.42	5	740.98	5	377.42	5	52.23	5	5		5		5
1/4	2,196.93	1/4	1,830.60	1/4	1,464.31	1/4	1,098.82	1/4	733.35	1/4	370.12	1/4	46.03	1/4	1/4		1/4		1/4
1/2	2,189.30	1/2	1,822.97	1/2	1,456.69	1/2	1,091.21	1/2	725.71	1/2	362.83	1/2	39.83	1/2	1/2		1/2		1/2
3/4	2,181.66	3/4	1,815.34	3/4	1,449.08	3/4	1,083.61	3/4	718.08	3/4	355.62	3/4	34.33	3/4	3/4		3/4		3/4
6	2,174.03	6	1,807.71	6	1,441.48	6	1,076.01	6	710.45	6	348.41	6	28.83	6	6		6		6
1/4	2,166.40	1/4	1,800.07	1/4	1,433.88	1/4	1,068.40	1/4	702.82	1/4	341.20	1/4	23.32	1/4	1/4		1/4		1/4
1/2	2,158.77	1/2	1,792.44	1/2	1,426.27	1/2	1,060.80	1/2	695.19	1/2	333.99	1/2	17.82	1/2	1/2		1/2		1/2
3/4	2,151.14	3/4	1,784.81	3/4	1,418.67	3/4	1,053.20	3/4	687.55	3/4	326.87	3/4	14.26	3/4	3/4		3/4		3/4
7	2,143.51	7	1,777.18	7	1,411.06	7	1,045.59	7	679.92	7	319.75	7	10.70	7	7		7		7
1/4	2,135.87	1/4	1,769.55	1/4	1,403.46	1/4	1,037.99	1/4	672.29	1/4	312.62	1/4	7.14	1/4	1/4		1/4		1/4
1/2	2,128.24	1/2	1,761.91	1/2	1,395.85	1/2	1,030.39	1/2	664.66	1/2	305.50	1/2	3.59	1/2	1/2		1/2		1/2
3/4	2,120.61	3/4	1,754.28	3/4	1,388.25	3/4	1,022.78	3/4	657.02	3/4	298.46	3/4		3/4	3/4		3/4		3/4
8	2,112.98	8	1,746.65	8	1,380.64	8	1,015.18	8	649.39	8	291.42	8		8	8		8		8
1/4	2,105.35	1/4	1,739.02	1/4	1,373.04	1/4	1,007.58	1/4	641.76	1/4	284.38	1/4		1/4	1/4		1/4		1/4
1/2	2,097.72	1/2	1,731.39	1/2	1,365.43	1/2	999.97	1/2	634.13	1/2	277.35	1/2		1/2	1/2		1/2		1/2
3/4	2,090.08	3/4	1,723.75	3/4	1,357.83	3/4	992.37	3/4	626.49	3/4	270.39	3/4		3/4	3/4		3/4		3/4
9	2,082.45	9	1,716.12	9	1,350.22	9	984.77	9	618.86	9	263.44	9		9	9		9		9
1/4	2,074.82	1/4	1,708.49	1/4	1,342.62	1/4	977.16	1/4	611.23	1/4	256.48	1/4		1/4	1/4		1/4		1/4
1/2	2,067.19	1/2	1,700.86	1/2	1,335.01	1/2	969.56	1/2	603.60	1/2	249.53	1/2		1/2	1/2		1/2		1/2
3/4	2,059.56	3/4	1,693.23	3/4	1,327.41	3/4	961.96	3/4	595.96	3/4	242.66	3/4		3/4	3/4		3/4		3/4
10	2,051.93	10	1,685.59	10	1,319.80	10	954.35	10	588.33	10	235.79	10		10	10		10		10
1/4	2,044.29	1/4	1,677.96	1/4	1,312.20	1/4	946.75	1/4	580.70	1/4	228.92	1/4		1/4	1/4		1/4		1/4
1/2	2,036.66	1/2	1,670.33	1/2	1,304.59	1/2	939.15	1/2	573.07	1/2	222.05	1/2		1/2	1/2		1/2		1/2
3/4	2,029.03	3/4	1,662.70	3/4	1,296.98	3/4	931.54	3/4	565.43	3/4	215.27	3/4		3/4	3/4		3/4		3/4
11	2,021.40	11	1,655.07	11	1,289.36	11	923.94	11	557.80	11	208.49	11		11	11		11		11
1/4	2,013.77	1/4	1,647.43	1/4	1,281.74	1/4	916.34	1/4	550.17	1/4	201.70	1/4		1/4	1/4		1/4		1/4
1/2	2,006.14	1/2	1,639.80	1/2	1,274.12	1/2	908.73	1/2	542.53	1/2	194.92	1/2		1/2	1/2		1/2		1/2
3/4	1,998.50	3/4	1,632.17	3/4	1,266.49	3/4	901.13	3/4	534.90	3/4	188.22	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28169"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,840.54		4,515.35		4,183.62		3,828.61		3,464.90		3,101.18		2,737.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,833.76	1/4	4,508.67	1/4	4,176.42	1/4	3,821.04	1/4	3,457.32	1/4	3,093.61	1/4	2,729.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,826.97	1/2	4,502.00	1/2	4,169.22	1/2	3,813.46	1/2	3,449.74	1/2	3,086.03	1/2	2,722.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,820.19	3/4	4,495.33	3/4	4,162.02	3/4	3,805.88	3/4	3,442.17	3/4	3,078.45	3/4	2,714.74		
1	1	1	1	1	1	1	4,813.41	1	4,488.65	1	4,154.81	1	3,798.30	1	3,434.59	1	3,070.87	1	2,707.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,806.00	1/4	4,481.94	1/4	4,147.58	1/4	3,790.73	1/4	3,427.01	1/4	3,063.30	1/4	2,699.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.58	1/2	4,475.24	1/2	4,140.34	1/2	3,783.15	1/2	3,419.43	1/2	3,055.72	1/2	2,692.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.17	3/4	4,468.53	3/4	4,133.10	3/4	3,775.57	3/4	3,411.86	3/4	3,048.14	3/4	2,684.43		
2	2	2	2	2	2	2	4,783.75	2	4,461.82	2	4,125.86	2	3,767.99	2	3,404.28	2	3,040.56	2	2,676.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,776.26	1/4	4,455.07	1/4	4,118.59	1/4	3,760.42	1/4	3,396.70	1/4	3,032.99	1/4	2,669.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,768.77	1/2	4,448.33	1/2	4,111.31	1/2	3,752.84	1/2	3,389.12	1/2	3,025.41	1/2	2,661.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.27	3/4	4,441.58	3/4	4,104.04	3/4	3,745.26	3/4	3,381.55	3/4	3,017.83	3/4	2,654.12		
3	3	3	3	3	3	3	4,753.78	3	4,434.84	3	4,096.77	3	3,737.68	3	3,373.97	3	3,010.25	3	2,646.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,746.57	1/4	4,428.05	1/4	4,089.46	1/4	3,730.11	1/4	3,366.39	1/4	3,002.68	1/4	2,638.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.35	1/2	4,421.27	1/2	4,082.15	1/2	3,722.53	1/2	3,358.81	1/2	2,995.10	1/2	2,631.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,732.14	3/4	4,414.49	3/4	4,074.85	3/4	3,714.95	3/4	3,351.24	3/4	2,987.52	3/4	2,623.81		
4	4	4	4	4	4	4	4,724.92	4	4,407.70	4	4,067.54	4	3,707.37	4	3,343.66	4	2,979.94	4	2,616.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,718.25	1/4	4,400.88	1/4	4,060.20	1/4	3,699.80	1/4	3,336.08	1/4	2,972.37	1/4	2,608.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,711.58	1/2	4,394.06	1/2	4,052.86	1/2	3,692.22	1/2	3,328.50	1/2	2,964.79	1/2	2,601.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,704.91	3/4	4,387.24	3/4	4,045.52	3/4	3,684.64	3/4	3,320.93	3/4	2,957.21	3/4	2,593.50		
5	5	5	5	5	5	5	4,698.24	5	4,380.43	5	4,038.18	5	3,677.06	5	3,313.35	5	2,949.63	5	2,585.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,691.82	1/4	4,373.57	1/4	4,030.80	1/4	3,669.49	1/4	3,305.77	1/4	2,942.06	1/4	2,578.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685.40	1/2	4,366.71	1/2	4,023.42	1/2	3,661.91	1/2	3,298.19	1/2	2,934.48	1/2	2,570.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.98	3/4	4,359.85	3/4	4,016.05	3/4	3,654.33	3/4	3,290.62	3/4	2,926.90	3/4	2,563.19		
6	6	6	6	6	6	6	4,672.56	6	4,353.00	6	4,008.67	6	3,646.76	6	3,283.04	6	2,919.32	6	2,555.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,666.10	1/4	4,346.08	1/4	4,001.25	1/4	3,639.18	1/4	3,275.46	1/4	2,911.75	1/4	2,548.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,659.64	1/2	4,339.17	1/2	3,993.84	1/2	3,631.60	1/2	3,267.89	1/2	2,904.17	1/2	2,540.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,653.18	3/4	4,332.25	3/4	3,986.42	3/4	3,624.02	3/4	3,260.31	3/4	2,896.59	3/4	2,532.88		
7	7	7	7	7	7	7	4,646.72	7	4,325.34	7	3,979.01	7	3,616.45	7	3,252.73	7	2,889.02	7	2,525.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,640.23	1/4	4,318.34	1/4	3,971.56	1/4	3,608.87	1/4	3,245.15	1/4	2,881.44	1/4	2,517.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,633.73	1/2	4,311.35	1/2	3,964.11	1/2	3,601.29	1/2	3,237.58	1/2	2,873.86	1/2	2,510.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,627.24	3/4	4,304.35	3/4	3,956.65	3/4	3,593.71	3/4	3,230.00	3/4	2,866.28	3/4	2,502.57		
8	8	8	8	8	8	8	4,620.74	8	4,297.36	8	3,949.20	8	3,586.14	8	3,222.42	8	2,858.71	8	2,494.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,614.21	1/4	4,290.30	1/4	3,941.71	1/4	3,578.56	1/4	3,214.84	1/4	2,851.13	1/4	2,487.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.68	1/2	4,283.25	1/2	3,934.22	1/2	3,570.98	1/2	3,207.27	1/2	2,843.55	1/2	2,479.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.15	3/4	4,276.20	3/4	3,926.73	3/4	3,563.40	3/4	3,199.69	3/4	2,835.97	3/4	2,472.26		
9	9	9	9	9	9	9	4,594.62	9	4,269.15	9	3,919.24	9	3,555.83	9	3,192.11	9	2,828.40	9	2,464.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.05	1/4	4,262.06	1/4	3,911.72	1/4	3,548.25	1/4	3,184.53	1/4	2,820.82	1/4	2,457.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,581.48	1/2	4,254.97	1/2	3,904.19	1/2	3,540.67	1/2	3,176.96	1/2	2,813.24	1/2	2,449.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,574.91	3/4	4,247.88	3/4	3,896.67	3/4	3,533.09	3/4	3,169.38	3/4	2,805.66	3/4	2,441.95		
10	10	10	10	10	10	10	4,568.34	10	4,240.79	10	3,889.14	10	3,525.52	10	3,161.80	10	2,798.09	10	2,434.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,561.73	1/4	4,233.66	1/4	3,881.58	1/4	3,517.94	1/4	3,154.22	1/4	2,790.51	1/4	2,426.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,555.13	1/2	4,226.53	1/2	3,874.02	1/2	3,510.36	1/2	3,146.65	1/2	2,782.93	1/2	2,419.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,548.52	3/4	4,219.40	3/4	3,866.47	3/4	3,502.78	3/4	3,139.07	3/4	2,775.35	3/4	2,411.64		
11	11	11	11	11	11	11	4,541.91	11	4,212.28	11	3,858.91	11	3,495.21	11	3,131.49	11	2,767.78	11	2,404.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,535.27	1/4	4,205.11	1/4	3,851.33	1/4	3,487.63	1/4	3,123.91	1/4	2,760.20	1/4	2,396.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,528.63	1/2	4,197.95	1/2	3,843.76	1/2	3,480.05	1/2	3,116.34	1/2	2,752.62	1/2	2,388.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.99	3/4	4,190.78	3/4	3,836.19	3/4	3,472.48	3/4	3,108.76	3/4	2,745.04	3/4	2,381.33		

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 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28169"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,373.75	0	2,010.03	0	1,646.31	0	1,286.46	0	936.45	0	575.77	0	212.01	0		0		0	
1/4	2,366.17	1/4	2,002.46	1/4	1,638.73	1/4	1,278.89	1/4	929.19	1/4	568.19	1/4	204.43	1/4		1/4		1/4	
1/2	2,358.60	1/2	1,994.88	1/2	1,631.15	1/2	1,271.31	1/2	921.93	1/2	560.61	1/2	196.86	1/2		1/2		1/2	
3/4	2,351.02	3/4	1,987.30	3/4	1,623.58	3/4	1,263.73	3/4	914.66	3/4	553.03	3/4	189.28	3/4		3/4		3/4	
1	2,343.44	1	1,979.72	1	1,616.00	1	1,256.15	1	907.40	1	545.46	1	181.70	1		1		1	
1/4	2,335.87	1/4	1,972.15	1/4	1,608.42	1/4	1,248.72	1/4	900.12	1/4	537.88	1/4	174.14	1/4		1/4		1/4	
1/2	2,328.29	1/2	1,964.57	1/2	1,600.84	1/2	1,241.30	1/2	892.84	1/2	530.30	1/2	166.57	1/2		1/2		1/2	
3/4	2,320.71	3/4	1,956.99	3/4	1,593.27	3/4	1,233.87	3/4	885.57	3/4	522.72	3/4	159.00	3/4		3/4		3/4	
2	2,313.13	2	1,949.41	2	1,585.69	2	1,226.44	2	878.29	2	515.14	2	151.43	2		2		2	
1/4	2,305.56	1/4	1,941.84	1/4	1,578.11	1/4	1,219.18	1/4	870.86	1/4	507.56	1/4	143.87	1/4		1/4		1/4	
1/2	2,297.98	1/2	1,934.26	1/2	1,570.53	1/2	1,211.91	1/2	863.44	1/2	499.99	1/2	136.32	1/2		1/2		1/2	
3/4	2,290.40	3/4	1,926.68	3/4	1,562.96	3/4	1,204.65	3/4	856.01	3/4	492.41	3/4	128.76	3/4		3/4		3/4	
3	2,282.82	3	1,919.10	3	1,555.38	3	1,197.38	3	848.58	3	484.83	3	121.20	3		3		3	
1/4	2,275.25	1/4	1,911.53	1/4	1,547.88	1/4	1,190.13	1/4	841.00	1/4	477.25	1/4	113.67	1/4		1/4		1/4	
1/2	2,267.67	1/2	1,903.95	1/2	1,540.39	1/2	1,182.88	1/2	833.43	1/2	469.67	1/2	106.13	1/2		1/2		1/2	
3/4	2,260.09	3/4	1,896.37	3/4	1,532.89	3/4	1,175.63	3/4	825.85	3/4	462.09	3/4	98.59	3/4		3/4		3/4	
4	2,252.51	4	1,888.79	4	1,525.39	4	1,168.38	4	818.27	4	454.52	4	91.06	4		4		4	
1/4	2,244.94	1/4	1,881.22	1/4	1,517.98	1/4	1,161.14	1/4	810.69	1/4	446.94	1/4	83.55	1/4		1/4		1/4	
1/2	2,237.36	1/2	1,873.64	1/2	1,510.56	1/2	1,153.89	1/2	803.11	1/2	439.36	1/2	76.05	1/2		1/2		1/2	
3/4	2,229.78	3/4	1,866.06	3/4	1,503.15	3/4	1,146.64	3/4	795.54	3/4	431.78	3/4	68.54	3/4		3/4		3/4	
5	2,222.20	5	1,858.48	5	1,495.73	5	1,139.39	5	787.96	5	424.20	5	61.04	5		5		5	
1/4	2,214.63	1/4	1,850.91	1/4	1,488.31	1/4	1,132.15	1/4	780.38	1/4	416.62	1/4	54.14	1/4		1/4		1/4	
1/2	2,207.05	1/2	1,843.33	1/2	1,480.90	1/2	1,124.90	1/2	772.80	1/2	409.04	1/2	47.25	1/2		1/2		1/2	
3/4	2,199.47	3/4	1,835.75	3/4	1,473.48	3/4	1,117.65	3/4	765.22	3/4	401.47	3/4	40.35	3/4		3/4		3/4	
6	2,191.89	6	1,828.17	6	1,466.07	6	1,110.40	6	757.65	6	393.89	6	33.45	6		6		6	
1/4	2,184.32	1/4	1,820.59	1/4	1,458.65	1/4	1,103.16	1/4	750.07	1/4	386.31	1/4	28.40	1/4		1/4		1/4	
1/2	2,176.74	1/2	1,813.02	1/2	1,451.24	1/2	1,095.91	1/2	742.49	1/2	378.73	1/2	23.35	1/2		1/2		1/2	
3/4	2,169.16	3/4	1,805.44	3/4	1,443.82	3/4	1,088.66	3/4	734.91	3/4	371.15	3/4	18.30	3/4		3/4		3/4	
7	2,161.58	7	1,797.86	7	1,436.41	7	1,081.41	7	727.33	7	363.57	7	13.25	7		7		7	
1/4	2,154.01	1/4	1,790.28	1/4	1,428.99	1/4	1,074.17	1/4	719.76	1/4	356.00	1/4		1/4		1/4		1/4	
1/2	2,146.43	1/2	1,782.71	1/2	1,421.57	1/2	1,066.92	1/2	712.18	1/2	348.42	1/2		1/2		1/2		1/2	
3/4	2,138.85	3/4	1,775.13	3/4	1,414.16	3/4	1,059.67	3/4	704.60	3/4	340.84	3/4		3/4		3/4		3/4	
8	2,131.28	8	1,767.55	8	1,406.74	8	1,052.42	8	697.02	8	333.26	8		8		8		8	
1/4	2,123.70	1/4	1,759.97	1/4	1,399.33	1/4	1,045.18	1/4	689.44	1/4	325.68	1/4		1/4		1/4		1/4	
1/2	2,116.12	1/2	1,752.40	1/2	1,391.91	1/2	1,037.93	1/2	681.87	1/2	318.10	1/2		1/2		1/2		1/2	
3/4	2,108.54	3/4	1,744.82	3/4	1,384.49	3/4	1,030.68	3/4	674.29	3/4	310.53	3/4		3/4		3/4		3/4	
9	2,100.97	9	1,737.24	9	1,377.08	9	1,023.43	9	666.71	9	302.95	9		9		9		9	
1/4	2,093.39	1/4	1,729.66	1/4	1,369.58	1/4	1,016.18	1/4	659.13	1/4	295.37	1/4		1/4		1/4		1/4	
1/2	2,085.81	1/2	1,722.09	1/2	1,362.08	1/2	1,008.94	1/2	651.55	1/2	287.79	1/2		1/2		1/2		1/2	
3/4	2,078.23	3/4	1,714.51	3/4	1,354.59	3/4	1,001.69	3/4	643.98	3/4	280.21	3/4		3/4		3/4		3/4	
10	2,070.66	10	1,706.93	10	1,347.09	10	994.44	10	636.40	10	272.63	10		10		10		10	
1/4	2,063.08	1/4	1,699.35	1/4	1,339.51	1/4	987.19	1/4	628.82	1/4	265.06	1/4		1/4		1/4		1/4	
1/2	2,055.50	1/2	1,691.78	1/2	1,331.93	1/2	979.95	1/2	621.24	1/2	257.48	1/2		1/2		1/2		1/2	
3/4	2,047.92	3/4	1,684.20	3/4	1,324.35	3/4	972.70	3/4	613.66	3/4	249.90	3/4		3/4		3/4		3/4	
11	2,040.35	11	1,676.62	11	1,316.78	11	965.45	11	606.08	11	242.32	11		11		11		11	
1/4	2,032.77	1/4	1,669.04	1/4	1,309.20	1/4	958.20	1/4	598.50	1/4	234.74	1/4		1/4		1/4		1/4	
1/2	2,025.19	1/2	1,661.47	1/2	1,301.62	1/2	950.95	1/2	590.93	1/2	227.16	1/2		1/2		1/2		1/2	
3/4	2,017.61	3/4	1,653.89	3/4	1,294.04	3/4	943.70	3/4	583.35	3/4	219.59	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28169"

## 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		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,537.67	0	4,206.46	0	3,851.86	0	3,488.15	0	3,124.43	0	2,760.72		
1/4		1/4		1/4		1/4	4,856.23	1/4	4,531.03	1/4	4,199.30	1/4	3,844.29	1/4	3,480.57	1/4	3,116.86	1/4	2,753.14		
1/2		1/2		1/2		1/2	4,849.44	1/2	4,524.35	1/2	4,192.09	1/2	3,836.71	1/2	3,472.99	1/2	3,109.28	1/2	2,745.56		
3/4		3/4		3/4		3/4	4,842.66	3/4	4,517.68	3/4	4,184.89	3/4	3,829.13	3/4	3,465.42	3/4	3,101.70	3/4	2,737.99		
1		1		1		1	4,835.88	1	4,511.01	1	4,177.69	1	3,821.56	1	3,457.84	1	3,094.12	1	2,730.41		
1/4		1/4		1/4		1/4	4,829.09	1/4	4,504.33	1/4	4,170.49	1/4	3,813.98	1/4	3,450.26	1/4	3,086.55	1/4	2,722.83		
1/2		1/2		1/2		1/2	4,821.68	1/2	4,497.62	1/2	4,163.25	1/2	3,806.40	1/2	3,442.69	1/2	3,078.97	1/2	2,715.25		
3/4		3/4		3/4		3/4	4,814.27	3/4	4,490.91	3/4	4,156.01	3/4	3,798.82	3/4	3,435.11	3/4	3,071.39	3/4	2,707.68		
2		2		2		2	4,806.85	2	4,484.21	2	4,148.77	2	3,791.25	2	3,427.53	2	3,063.82	2	2,700.10		
1/4		1/4		1/4		1/4	4,799.44	1/4	4,477.50	1/4	4,141.54	1/4	3,783.67	1/4	3,419.95	1/4	3,056.24	1/4	2,692.52		
1/2		1/2		1/2		1/2	4,791.94	1/2	4,470.75	1/2	4,134.26	1/2	3,776.09	1/2	3,412.38	1/2	3,048.66	1/2	2,684.95		
3/4		3/4		3/4		3/4	4,784.45	3/4	4,464.01	3/4	4,126.99	3/4	3,768.51	3/4	3,404.80	3/4	3,041.08	3/4	2,677.37		
3		3		3		3	4,776.96	3	4,457.26	3	4,119.72	3	3,760.94	3	3,397.22	3	3,033.51	3	2,669.79		
1/4		1/4		1/4		1/4	4,769.47	1/4	4,450.51	1/4	4,112.44	1/4	3,753.36	1/4	3,389.64	1/4	3,025.93	1/4	2,662.21		
1/2		1/2		1/2		1/2	4,762.25	1/2	4,443.73	1/2	4,105.14	1/2	3,745.78	1/2	3,382.07	1/2	3,018.35	1/2	2,654.64		
3/4		3/4		3/4		3/4	4,755.03	3/4	4,436.95	3/4	4,097.83	3/4	3,738.20	3/4	3,374.49	3/4	3,010.77	3/4	2,647.06		
4		4		4		4	4,747.82	4	4,430.17	4	4,090.52	4	3,730.63	4	3,366.91	4	3,003.20	4	2,639.48		
1/4		1/4		1/4		1/4	4,740.60	1/4	4,423.38	1/4	4,083.22	1/4	3,723.05	1/4	3,359.33	1/4	2,995.62	1/4	2,631.90		
1/2		1/2		1/2		1/2	4,733.93	1/2	4,416.56	1/2	4,075.88	1/2	3,715.47	1/2	3,351.76	1/2	2,988.04	1/2	2,624.33		
3/4		3/4		3/4		3/4	4,727.26	3/4	4,409.74	3/4	4,068.54	3/4	3,707.89	3/4	3,344.18	3/4	2,980.46	3/4	2,616.75		
5		5		5		5	4,720.59	5	4,402.92	5	4,061.20	5	3,700.32	5	3,336.60	5	2,972.89	5	2,609.17		
1/4		1/4		1/4		1/4	4,713.92	1/4	4,396.10	1/4	4,053.86	1/4	3,692.74	1/4	3,329.02	1/4	2,965.31	1/4	2,601.59		
1/2		1/2		1/2		1/2	4,707.50	1/2	4,389.25	1/2	4,046.48	1/2	3,685.16	1/2	3,321.45	1/2	2,957.73	1/2	2,594.02		
3/4		3/4		3/4		3/4	4,701.08	3/4	4,382.39	3/4	4,039.10	3/4	3,677.58	3/4	3,313.87	3/4	2,950.15	3/4	2,586.44		
6		6		6		6	4,694.66	6	4,375.53	6	4,031.72	6	3,670.01	6	3,306.29	6	2,942.58	6	2,578.86		
1/4		1/4		1/4		1/4	4,688.24	1/4	4,368.67	1/4	4,024.34	1/4	3,662.43	1/4	3,298.71	1/4	2,935.00	1/4	2,571.28		
1/2		1/2		1/2		1/2	4,681.78	1/2	4,361.76	1/2	4,016.93	1/2	3,654.85	1/2	3,291.14	1/2	2,927.42	1/2	2,563.71		
3/4		3/4		3/4		3/4	4,675.32	3/4	4,354.84	3/4	4,009.51	3/4	3,647.27	3/4	3,283.56	3/4	2,919.84	3/4	2,556.13		
7		7		7		7	4,668.86	7	4,347.93	7	4,002.10	7	3,639.70	7	3,275.98	7	2,912.27	7	2,548.55		
1/4		1/4		1/4		1/4	4,662.41	1/4	4,341.01	1/4	3,994.68	1/4	3,632.12	1/4	3,268.40	1/4	2,904.69	1/4	2,540.97		
1/2		1/2		1/2		1/2	4,655.91	1/2	4,334.02	1/2	3,987.23	1/2	3,624.54	1/2	3,260.83	1/2	2,897.11	1/2	2,533.40		
3/4		3/4		3/4		3/4	4,649.42	3/4	4,327.02	3/4	3,979.78	3/4	3,616.97	3/4	3,253.25	3/4	2,889.53	3/4	2,525.82		
8		8		8		8	4,642.92	8	4,320.03	8	3,972.33	8	3,609.39	8	3,245.67	8	2,881.96	8	2,518.24		
1/4		1/4		1/4		1/4	4,636.43	1/4	4,313.03	1/4	3,964.88	1/4	3,601.81	1/4	3,238.10	1/4	2,874.38	1/4	2,510.66		
1/2		1/2		1/2		1/2	4,629.89	1/2	4,305.98	1/2	3,957.39	1/2	3,594.23	1/2	3,230.52	1/2	2,866.80	1/2	2,503.09		
3/4		3/4		3/4		3/4	4,623.36	3/4	4,298.93	3/4	3,949.90	3/4	3,586.66	3/4	3,222.94	3/4	2,859.23	3/4	2,495.51		
9		9		9		9	4,616.83	9	4,291.87	9	3,942.41	9	3,579.08	9	3,215.36	9	2,851.65	9	2,487.93		
1/4		1/4		1/4		1/4	4,610.30	1/4	4,284.82	1/4	3,934.92	1/4	3,571.50	1/4	3,207.79	1/4	2,844.07	1/4	2,480.36		
1/2		1/2		1/2		1/2	4,603.73	1/2	4,277.73	1/2	3,927.39	1/2	3,563.92	1/2	3,200.21	1/2	2,836.49	1/2	2,472.78		
3/4		3/4		3/4		3/4	4,597.16	3/4	4,270.64	3/4	3,919.87	3/4	3,556.35	3/4	3,192.63	3/4	2,828.92	3/4	2,465.20		
10		10		10		10	4,590.59	10	4,263.55	10	3,912.34	10	3,548.77	10	3,185.05	10	2,821.34	10	2,457.62		
1/4		1/4		1/4		1/4	4,584.02	1/4	4,256.46	1/4	3,904.81	1/4	3,541.19	1/4	3,177.48	1/4	2,813.76	1/4	2,450.05		
1/2		1/2		1/2		1/2	4,577.41	1/2	4,249.33	1/2	3,897.26	1/2	3,533.61	1/2	3,169.90	1/2	2,806.18	1/2	2,442.47		
3/4		3/4		3/4		3/4	4,570.81	3/4	4,242.21	3/4	3,889.70	3/4	3,526.04	3/4	3,162.32	3/4	2,798.61	3/4	2,434.89		
11		11		11		11	4,564.20	11	4,235.08	11	3,882.14	11	3,518.46	11	3,154.74	11	2,791.03	11	2,427.31		
1/4		1/4		1/4		1/4	4,557.59	1/4	4,227.95	1/4	3,874.58	1/4	3,510.88	1/4	3,147.17	1/4	2,783.45	1/4	2,419.74		
1/2		1/2		1/2		1/2	4,550.95	1/2	4,220.79	1/2	3,867.01	1/2	3,503.30	1/2	3,139.59	1/2	2,775.87	1/2	2,412.16		
3/4		3/4		3/4		3/4	4,544.31	3/4	4,213.62	3/4	3,859.44	3/4	3,495.73	3/4	3,132.01	3/4	2,768.30	3/4	2,404.58		

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 52'-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 28169"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,397.00	0	2,033.29	0	1,669.56	0	1,309.72	0	947.02	0	583.35	0	219.59	0		0		0	
1/4	2,389.43	1/4	2,025.71	1/4	1,661.98	1/4	1,302.14	1/4	939.47	1/4	575.77	1/4	212.01	1/4	1/4	1/4		1/4	
1/2	2,381.85	1/2	2,018.13	1/2	1,654.41	1/2	1,294.56	1/2	931.90	1/2	568.19	1/2	204.43	1/2	1/2	1/2		1/2	
3/4	2,374.27	3/4	2,010.55	3/4	1,646.83	3/4	1,286.98	3/4	924.34	3/4	560.61	3/4	196.86	3/4	3/4	3/4		3/4	
1	2,366.69	1	2,002.98	1	1,639.25	1	1,279.40	1	916.77	1	553.03	1	189.28	1	1	1		1	
1/4	2,359.12	1/4	1,995.40	1/4	1,631.67	1/4	1,271.82	1/4	909.20	1/4	545.46	1/4	181.71	1/4	1/4	1/4		1/4	
1/2	2,351.54	1/2	1,987.82	1/2	1,624.10	1/2	1,264.25	1/2	901.63	1/2	537.88	1/2	174.14	1/2	1/2	1/2		1/2	
3/4	2,343.96	3/4	1,980.24	3/4	1,616.52	3/4	1,256.67	3/4	894.05	3/4	530.30	3/4	166.57	3/4	3/4	3/4		3/4	
2	2,336.38	2	1,972.67	2	1,608.94	2	1,249.09	2	886.47	2	522.72	2	159.00	2	2	2		2	
1/4	2,328.81	1/4	1,965.09	1/4	1,601.36	1/4	1,241.51	1/4	878.89	1/4	515.14	1/4	151.43	1/4	1/4	1/4		1/4	
1/2	2,321.23	1/2	1,957.51	1/2	1,593.79	1/2	1,233.95	1/2	871.31	1/2	507.56	1/2	143.87	1/2	1/2	1/2		1/2	
3/4	2,313.65	3/4	1,949.93	3/4	1,586.21	3/4	1,226.38	3/4	863.74	3/4	499.99	3/4	136.32	3/4	3/4	3/4		3/4	
3	2,306.08	3	1,942.36	3	1,578.63	3	1,218.81	3	856.16	3	492.41	3	128.76	3	3	3		3	
1/4	2,298.50	1/4	1,934.78	1/4	1,571.05	1/4	1,211.25	1/4	848.58	1/4	484.83	1/4	121.20	1/4	1/4	1/4		1/4	
1/2	2,290.92	1/2	1,927.20	1/2	1,563.56	1/2	1,203.70	1/2	841.00	1/2	477.25	1/2	113.67	1/2	1/2	1/2		1/2	
3/4	2,283.34	3/4	1,919.62	3/4	1,556.06	3/4	1,196.15	3/4	833.43	3/4	469.67	3/4	106.13	3/4	3/4	3/4		3/4	
4	2,275.77	4	1,912.05	4	1,548.56	4	1,188.60	4	825.85	4	462.09	4	98.59	4	4	4		4	
1/4	2,268.19	1/4	1,904.47	1/4	1,541.07	1/4	1,181.05	1/4	818.27	1/4	454.52	1/4	91.06	1/4	1/4	1/4		1/4	
1/2	2,260.61	1/2	1,896.89	1/2	1,533.65	1/2	1,173.50	1/2	810.69	1/2	446.94	1/2	83.55	1/2	1/2	1/2		1/2	
3/4	2,253.03	3/4	1,889.31	3/4	1,526.24	3/4	1,165.95	3/4	803.11	3/4	439.36	3/4	76.05	3/4	3/4	3/4		3/4	
5	2,245.46	5	1,881.74	5	1,518.82	5	1,158.40	5	795.54	5	431.78	5	68.54	5	5	5		5	
1/4	2,237.88	1/4	1,874.16	1/4	1,511.40	1/4	1,150.85	1/4	787.96	1/4	424.20	1/4	61.04	1/4	1/4	1/4		1/4	
1/2	2,230.30	1/2	1,866.58	1/2	1,503.99	1/2	1,143.30	1/2	780.38	1/2	416.62	1/2	54.14	1/2	1/2	1/2		1/2	
3/4	2,222.72	3/4	1,859.00	3/4	1,496.57	3/4	1,135.75	3/4	772.80	3/4	409.04	3/4	47.25	3/4	3/4	3/4		3/4	
6	2,215.15	6	1,851.42	6	1,489.16	6	1,128.20	6	765.22	6	401.47	6	40.35	6	6	6		6	
1/4	2,207.57	1/4	1,843.85	1/4	1,481.74	1/4	1,120.65	1/4	757.65	1/4	393.89	1/4	33.45	1/4	1/4	1/4		1/4	
1/2	2,199.99	1/2	1,836.27	1/2	1,474.33	1/2	1,113.10	1/2	750.07	1/2	386.31	1/2	28.40	1/2	1/2	1/2		1/2	
3/4	2,192.41	3/4	1,828.69	3/4	1,466.91	3/4	1,105.56	3/4	742.49	3/4	378.73	3/4	23.35	3/4	3/4	3/4		3/4	
7	2,184.84	7	1,821.11	7	1,459.50	7	1,098.01	7	734.91	7	371.15	7	18.30	7	7	7		7	
1/4	2,177.26	1/4	1,813.54	1/4	1,452.08	1/4	1,090.46	1/4	727.33	1/4	363.57	1/4	13.25	1/4	1/4	1/4		1/4	
1/2	2,169.68	1/2	1,805.96	1/2	1,444.67	1/2	1,082.91	1/2	719.76	1/2	356.00	1/2		1/2	1/2	1/2		1/2	
3/4	2,162.10	3/4	1,798.38	3/4	1,437.25	3/4	1,075.36	3/4	712.18	3/4	348.42	3/4		3/4	3/4	3/4		3/4	
8	2,154.53	8	1,790.80	8	1,429.83	8	1,067.81	8	704.60	8	340.84	8		8	8	8		8	
1/4	2,146.95	1/4	1,783.23	1/4	1,422.42	1/4	1,060.26	1/4	697.02	1/4	333.26	1/4		1/4	1/4	1/4		1/4	
1/2	2,139.37	1/2	1,775.65	1/2	1,415.00	1/2	1,052.71	1/2	689.45	1/2	325.68	1/2		1/2	1/2	1/2		1/2	
3/4	2,131.79	3/4	1,768.07	3/4	1,407.59	3/4	1,045.16	3/4	681.87	3/4	318.10	3/4		3/4	3/4	3/4		3/4	
9	2,124.22	9	1,760.49	9	1,400.17	9	1,037.61	9	674.29	9	310.53	9		9	9	9		9	
1/4	2,116.64	1/4	1,752.92	1/4	1,392.75	1/4	1,030.06	1/4	666.71	1/4	302.95	1/4		1/4	1/4	1/4		1/4	
1/2	2,109.06	1/2	1,745.34	1/2	1,385.26	1/2	1,022.52	1/2	659.13	1/2	295.37	1/2		1/2	1/2	1/2		1/2	
3/4	2,101.49	3/4	1,737.76	3/4	1,377.76	3/4	1,014.97	3/4	651.55	3/4	287.79	3/4		3/4	3/4	3/4		3/4	
10	2,093.91	10	1,730.18	10	1,370.26	10	1,007.42	10	643.98	10	280.21	10		10	10	10		10	
1/4	2,086.33	1/4	1,722.61	1/4	1,362.76	1/4	999.87	1/4	636.40	1/4	272.63	1/4		1/4	1/4	1/4		1/4	
1/2	2,078.75	1/2	1,715.03	1/2	1,355.19	1/2	992.32	1/2	628.82	1/2	265.06	1/2		1/2	1/2	1/2		1/2	
3/4	2,071.18	3/4	1,707.45	3/4	1,347.61	3/4	984.77	3/4	621.24	3/4	257.48	3/4		3/4	3/4	3/4		3/4	
11	2,063.60	11	1,699.87	11	1,340.03	11	977.22	11	613.66	11	249.90	11		11	11	11		11	
1/4	2,056.02	1/4	1,692.30	1/4	1,332.45	1/4	969.67	1/4	606.08	1/4	242.32	1/4		1/4	1/4	1/4		1/4	
1/2	2,048.44	1/2	1,684.72	1/2	1,324.87	1/2	962.12	1/2	598.50	1/2	234.74	1/2		1/2	1/2	1/2		1/2	
3/4	2,040.87	3/4	1,677.14	3/4	1,317.29	3/4	954.57	3/4	590.93	3/4	227.16	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "KIRBY 28169"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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			
0		0		0		0		0	4,212.63	0	3,951.74	0	3,676.94	0	3,395.92	0	3,034.35	0	2,670.64		
1/4		1/4		1/4		1/4		1/4	4,462.31	1/4	4,207.34	1/4	3,946.12	1/4	3,671.11	1/4	3,389.21	1/4	3,026.78	1/4	2,663.07
1/2		1/2		1/2		1/2		1/2	4,457.58	1/2	4,202.04	1/2	3,940.51	1/2	3,665.27	1/2	3,382.49	1/2	3,019.20	1/2	2,655.49
3/4		3/4		3/4		3/4		3/4	4,452.85	3/4	4,196.75	3/4	3,934.90	3/4	3,659.44	3/4	3,375.77	3/4	3,011.62	3/4	2,647.91
1		1		1		1		1	4,447.81	1	4,191.44	1	3,929.26	1	3,653.60	1	3,368.18	1	3,004.04	1	2,640.33
1/4		1/4		1/4		1/4		1/4	4,442.77	1/4	4,186.13	1/4	3,923.63	1/4	3,647.76	1/4	3,360.58	1/4	2,996.47	1/4	2,632.76
1/2		1/2		1/2		1/2		1/2	4,437.73	1/2	4,180.82	1/2	3,917.99	1/2	3,641.93	1/2	3,352.98	1/2	2,988.89	1/2	2,625.18
3/4		3/4		3/4		3/4		3/4	4,432.69	3/4	4,175.50	3/4	3,912.36	3/4	3,636.09	3/4	3,345.38	3/4	2,981.31	3/4	2,617.60
2		2		2		2		2	4,427.01	2	4,170.17	2	3,906.70	2	3,630.26	2	3,337.79	2	2,973.74	2	2,610.03
1/4		1/4		1/4		1/4		1/4	4,421.34	1/4	4,164.84	1/4	3,901.05	1/4	3,624.42	1/4	3,330.19	1/4	2,966.16	1/4	2,602.45
1/2		1/2		1/2		1/2		1/2	4,415.67	1/2	4,159.51	1/2	3,895.40	1/2	3,618.58	1/2	3,322.59	1/2	2,958.58	1/2	2,594.87
3/4		3/4		3/4		3/4		3/4	4,409.99	3/4	4,154.18	3/4	3,889.74	3/4	3,612.75	3/4	3,314.99	3/4	2,951.00	3/4	2,587.29
3		3		3		3		3	4,404.24	3	4,148.83	3	3,884.07	3	3,606.91	3	3,307.40	3	2,943.43	3	2,579.72
1/4		1/4		1/4		1/4		1/4	4,398.49	1/4	4,143.48	1/4	3,878.40	1/4	3,601.07	1/4	3,299.80	1/4	2,935.85	1/4	2,572.14
1/2		1/2		1/2		1/2		1/2	4,392.74	1/2	4,138.13	1/2	3,872.72	1/2	3,595.24	1/2	3,292.20	1/2	2,928.27	1/2	2,564.56
3/4		3/4		3/4		3/4		3/4	4,386.99	3/4	4,132.78	3/4	3,867.05	3/4	3,589.40	3/4	3,284.60	3/4	2,920.69	3/4	2,556.98
4		4		4		4		4	4,381.38	4	4,127.41	4	3,861.36	4	3,583.57	4	3,277.01	4	2,913.12	4	2,549.41
1/4		1/4		1/4		1/4		1/4	4,375.78	1/4	4,122.04	1/4	3,855.67	1/4	3,577.73	1/4	3,269.41	1/4	2,905.54	1/4	2,541.83
1/2		1/2		1/2		1/2		1/2	4,370.18	1/2	4,116.67	1/2	3,849.98	1/2	3,571.89	1/2	3,261.81	1/2	2,897.96	1/2	2,534.25
3/4		3/4		3/4		3/4		3/4	4,364.58	3/4	4,111.30	3/4	3,844.29	3/4	3,566.06	3/4	3,254.22	3/4	2,890.39	3/4	2,526.67
5		5		5		5		5	4,359.27	5	4,105.91	5	3,838.58	5	3,560.22	5	3,246.62	5	2,882.81	5	2,519.10
1/4		1/4		1/4		1/4		1/4	4,353.96	1/4	4,100.52	1/4	3,832.87	1/4	3,554.38	1/4	3,239.02	1/4	2,875.23	1/4	2,511.52
1/2		1/2		1/2		1/2		1/2	4,348.65	1/2	4,095.13	1/2	3,827.16	1/2	3,548.55	1/2	3,231.42	1/2	2,867.65	1/2	2,503.94
3/4		3/4		3/4		3/4		3/4	4,343.34	3/4	4,089.74	3/4	3,821.45	3/4	3,542.71	3/4	3,223.83	3/4	2,860.08	3/4	2,496.37
6		6		6		6		6	4,338.16	6	4,084.33	6	3,815.72	6	3,536.87	6	3,216.24	6	2,852.50	6	2,488.79
1/4		1/4		1/4		1/4		1/4	4,332.99	1/4	4,078.92	1/4	3,810.00	1/4	3,531.04	1/4	3,208.65	1/4	2,844.92	1/4	2,481.21
1/2		1/2		1/2		1/2		1/2	4,327.81	1/2	4,073.51	1/2	3,804.27	1/2	3,525.20	1/2	3,201.06	1/2	2,837.34	1/2	2,473.63
3/4		3/4		3/4		3/4		3/4	4,322.63	3/4	4,068.10	3/4	3,798.54	3/4	3,519.37	3/4	3,193.48	3/4	2,829.77	3/4	2,466.06
7		7		7		7		7	4,317.44	7	4,062.65	7	3,792.79	7	3,513.53	7	3,185.90	7	2,822.19	7	2,458.48
1/4		1/4		1/4		1/4		1/4	4,312.24	1/4	4,057.20	1/4	3,787.04	1/4	3,507.69	1/4	3,178.32	1/4	2,814.61	1/4	2,450.90
1/2		1/2		1/2		1/2		1/2	4,307.05	1/2	4,051.75	1/2	3,781.29	1/2	3,501.86	1/2	3,170.75	1/2	2,807.03	1/2	2,443.32
3/4		3/4		3/4		3/4		3/4	4,301.85	3/4	4,046.30	3/4	3,775.54	3/4	3,496.02	3/4	3,163.17	3/4	2,799.46	3/4	2,435.75
8		8		8		8		8	4,296.64	8	4,040.78	8	3,769.77	8	3,490.18	8	3,155.59	8	2,791.88	8	2,428.17
1/4		1/4		1/4		1/4		1/4	4,291.42	1/4	4,035.27	1/4	3,764.00	1/4	3,484.35	1/4	3,148.01	1/4	2,784.30	1/4	2,420.59
1/2		1/2		1/2		1/2		1/2	4,286.21	1/2	4,029.76	1/2	3,758.23	1/2	3,478.51	1/2	3,140.44	1/2	2,776.73	1/2	2,413.02
3/4		3/4		3/4		3/4		3/4	4,280.99	3/4	4,024.24	3/4	3,752.47	3/4	3,472.68	3/4	3,132.86	3/4	2,769.15	3/4	2,405.44
9		9		9		9		9	4,275.76	9	4,018.69	9	3,746.68	9	3,466.84	9	3,125.28	9	2,761.57	9	2,397.86
1/4		1/4		1/4		1/4		1/4	4,270.52	1/4	4,013.14	1/4	3,740.89	1/4	3,461.00	1/4	3,117.70	1/4	2,753.99	1/4	2,390.28
1/2		1/2		1/2		1/2		1/2	4,265.29	1/2	4,007.58	1/2	3,735.10	1/2	3,455.17	1/2	3,110.13	1/2	2,746.42	1/2	2,382.71
3/4		3/4		3/4		3/4		3/4	4,260.05	3/4	4,002.03	3/4	3,729.31	3/4	3,449.33	3/4	3,102.55	3/4	2,738.84	3/4	2,375.13
10		10		10		10		10	4,254.79	10	3,996.45	10	3,723.50	10	3,443.49	10	3,094.97	10	2,731.26	10	2,367.55
1/4		1/4		1/4		1/4		1/4	4,249.54	1/4	3,990.88	1/4	3,717.69	1/4	3,437.66	1/4	3,087.40	1/4	2,723.68	1/4	2,359.97
1/2		1/2		1/2		1/2		1/2	4,244.28	1/2	3,985.30	1/2	3,711.88	1/2	3,431.82	1/2	3,079.82	1/2	2,716.11	1/2	2,352.40
3/4		3/4		3/4		3/4		3/4	4,239.03	3/4	3,979.73	3/4	3,706.08	3/4	3,425.99	3/4	3,072.24	3/4	2,708.53	3/4	2,344.82
11		11		11		11		11	4,233.75	11	3,974.13	11	3,700.25	11	3,420.15	11	3,064.66	11	2,700.95	11	2,337.24
1/4		1/4		1/4		1/4		1/4	4,228.48	1/4	3,968.54	1/4	3,694.42	1/4	3,414.31	1/4	3,057.09	1/4	2,693.38	1/4	2,329.67
1/2		1/2		1/2		1/2		1/2	4,223.20	1/2	3,962.95	1/2	3,688.60	1/2	3,408.48	1/2	3,049.51	1/2	2,685.80	1/2	2,322.09
3/4		3/4		3/4		3/4		3/4	4,217.93	3/4	3,957.35	3/4	3,682.77	3/4	3,402.64	3/4	3,041.93	3/4	2,678.22	3/4	2,314.51

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 52'-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 28169"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,306.93	0	1,943.22	0	1,579.57	0	1,220.39	0	865.79	0	509.00	0	144.60	0		0		0	
1/4	2,299.36	1/4	1,935.64	1/4	1,572.02	1/4	1,212.83	1/4	858.43	1/4	501.40	1/4	137.32	1/4	1/4	1/4		1/4	
1/2	2,291.78	1/2	1,928.07	1/2	1,564.46	1/2	1,205.26	1/2	851.07	1/2	493.80	1/2	130.03	1/2	1/2	1/2		1/2	
3/4	2,284.20	3/4	1,920.49	3/4	1,556.91	3/4	1,197.70	3/4	843.71	3/4	486.20	3/4	122.75	3/4	3/4	3/4		3/4	
1	2,276.62	1	1,912.91	1	1,549.36	1	1,190.14	1	836.33	1	478.61	1	116.42	1	1	1		1	
1/4	2,269.05	1/4	1,905.33	1/4	1,541.80	1/4	1,182.58	1/4	828.96	1/4	471.01	1/4	110.09	1/4	1/4	1/4		1/4	
1/2	2,261.47	1/2	1,897.76	1/2	1,534.25	1/2	1,175.01	1/2	821.58	1/2	463.41	1/2	103.76	1/2	1/2	1/2		1/2	
3/4	2,253.89	3/4	1,890.18	3/4	1,526.69	3/4	1,167.45	3/4	814.21	3/4	455.81	3/4	97.43	3/4	3/4	3/4		3/4	
2	2,246.31	2	1,882.60	2	1,519.14	2	1,160.00	2	806.82	2	448.21	2	92.37	2	2	2		2	
1/4	2,238.74	1/4	1,875.02	1/4	1,511.59	1/4	1,152.54	1/4	799.43	1/4	440.62	1/4	87.31	1/4	1/4	1/4		1/4	
1/2	2,231.16	1/2	1,867.45	1/2	1,504.03	1/2	1,145.08	1/2	792.05	1/2	433.02	1/2	82.25	1/2	1/2	1/2		1/2	
3/4	2,223.58	3/4	1,859.87	3/4	1,496.48	3/4	1,137.62	3/4	784.66	3/4	425.42	3/4	77.19	3/4	3/4	3/4		3/4	
3	2,216.01	3	1,852.29	3	1,488.92	3	1,130.28	3	777.27	3	417.82	3	73.41	3	3	3		3	
1/4	2,208.43	1/4	1,844.71	1/4	1,481.37	1/4	1,122.93	1/4	769.88	1/4	410.22	1/4	69.63	1/4	1/4	1/4		1/4	
1/2	2,200.85	1/2	1,837.14	1/2	1,473.82	1/2	1,115.58	1/2	762.50	1/2	402.62	1/2	65.85	1/2	1/2	1/2		1/2	
3/4	2,193.27	3/4	1,829.56	3/4	1,466.26	3/4	1,108.23	3/4	755.11	3/4	395.03	3/4	62.07	3/4	3/4	3/4		3/4	
4	2,185.70	4	1,821.98	4	1,458.79	4	1,100.89	4	747.72	4	387.43	4	59.57	4	4	4		4	
1/4	2,178.12	1/4	1,814.40	1/4	1,451.32	1/4	1,093.55	1/4	740.33	1/4	379.83	1/4	57.07	1/4	1/4	1/4		1/4	
1/2	2,170.54	1/2	1,806.83	1/2	1,443.84	1/2	1,086.21	1/2	732.95	1/2	372.23	1/2	54.58	1/2	1/2	1/2		1/2	
3/4	2,162.96	3/4	1,799.25	3/4	1,436.37	3/4	1,078.86	3/4	725.56	3/4	364.63	3/4	52.08	3/4	3/4	3/4		3/4	
5	2,155.39	5	1,791.67	5	1,428.97	5	1,071.52	5	718.17	5	357.03	5	50.88	5	5	5		5	
1/4	2,147.81	1/4	1,784.09	1/4	1,421.56	1/4	1,064.18	1/4	710.78	1/4	349.44	1/4	49.68	1/4	1/4	1/4		1/4	
1/2	2,140.23	1/2	1,776.52	1/2	1,414.16	1/2	1,056.84	1/2	703.40	1/2	341.84	1/2	48.48	1/2	1/2	1/2		1/2	
3/4	2,132.66	3/4	1,768.94	3/4	1,406.75	3/4	1,049.50	3/4	696.01	3/4	334.24	3/4	47.29	3/4	3/4	3/4		3/4	
6	2,125.08	6	1,761.36	6	1,399.34	6	1,042.16	6	688.62	6	326.64	6		6	6	6		6	
1/4	2,117.50	1/4	1,753.78	1/4	1,391.92	1/4	1,034.82	1/4	681.23	1/4	319.04	1/4		1/4	1/4	1/4		1/4	
1/2	2,109.92	1/2	1,746.21	1/2	1,384.51	1/2	1,027.48	1/2	673.85	1/2	311.44	1/2		1/2	1/2	1/2		1/2	
3/4	2,102.35	3/4	1,738.63	3/4	1,377.09	3/4	1,020.14	3/4	666.46	3/4	303.85	3/4		3/4	3/4	3/4		3/4	
7	2,094.77	7	1,731.05	7	1,369.67	7	1,012.80	7	659.07	7	296.25	7		7	7	7		7	
1/4	2,087.19	1/4	1,723.47	1/4	1,362.26	1/4	1,005.46	1/4	651.68	1/4	288.65	1/4		1/4	1/4	1/4		1/4	
1/2	2,079.61	1/2	1,715.90	1/2	1,354.84	1/2	998.12	1/2	644.30	1/2	281.05	1/2		1/2	1/2	1/2		1/2	
3/4	2,072.04	3/4	1,708.32	3/4	1,347.42	3/4	990.78	3/4	636.91	3/4	273.45	3/4		3/4	3/4	3/4		3/4	
8	2,064.46	8	1,700.74	8	1,340.01	8	983.44	8	629.52	8	265.85	8		8	8	8		8	
1/4	2,056.88	1/4	1,693.16	1/4	1,332.59	1/4	976.10	1/4	622.13	1/4	258.26	1/4		1/4	1/4	1/4		1/4	
1/2	2,049.30	1/2	1,685.59	1/2	1,325.17	1/2	968.76	1/2	614.75	1/2	250.66	1/2		1/2	1/2	1/2		1/2	
3/4	2,041.73	3/4	1,678.01	3/4	1,317.76	3/4	961.42	3/4	607.36	3/4	243.06	3/4		3/4	3/4	3/4		3/4	
9	2,034.15	9	1,670.43	9	1,310.35	9	954.07	9	599.86	9	235.46	9		9	9	9		9	
1/4	2,026.57	1/4	1,662.85	1/4	1,302.94	1/4	946.72	1/4	592.37	1/4	227.86	1/4		1/4	1/4	1/4		1/4	
1/2	2,019.00	1/2	1,655.28	1/2	1,295.53	1/2	939.37	1/2	584.88	1/2	220.26	1/2		1/2	1/2	1/2		1/2	
3/4	2,011.42	3/4	1,647.70	3/4	1,288.12	3/4	932.02	3/4	577.38	3/4	212.67	3/4		3/4	3/4	3/4		3/4	
10	2,003.84	10	1,640.12	10	1,280.64	10	924.66	10	569.79	10	205.07	10		10	10	10		10	
1/4	1,996.26	1/4	1,632.54	1/4	1,273.16	1/4	917.30	1/4	562.19	1/4	197.47	1/4		1/4	1/4	1/4		1/4	
1/2	1,988.69	1/2	1,624.97	1/2	1,265.68	1/2	909.94	1/2	554.59	1/2	189.87	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.11	3/4	1,617.39	3/4	1,258.20	3/4	902.58	3/4	546.99	3/4	182.27	3/4		3/4	3/4	3/4		3/4	
11	1,973.53	11	1,609.82	11	1,250.64	11	895.23	11	539.39	11	174.67	11		11	11	11		11	
1/4	1,965.95	1/4	1,602.26	1/4	1,243.07	1/4	887.87	1/4	531.79	1/4	167.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,958.38	1/2	1,594.69	1/2	1,235.51	1/2	880.51	1/2	524.20	1/2	159.48	1/2		1/2	1/2	1/2		1/2	
3/4	1,950.80	3/4	1,587.13	3/4	1,227.95	3/4	873.15	3/4	516.60	3/4	151.88	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

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



# BARGE "KIRBY 28169"

## 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,480.46	0	4,224.93	0	3,963.40	0	3,688.16	0	3,405.37	0	3,041.58	0	2,676.91
1/4		1/4		1/4		1/4	4,475.73	1/4	4,219.64	1/4	3,957.78	1/4	3,682.32	1/4	3,398.65	1/4	3,033.98	1/4	2,669.31
1/2		1/2		1/2		1/2	4,470.69	1/2	4,214.33	1/2	3,952.15	1/2	3,676.49	1/2	3,391.06	1/2	3,026.39	1/2	2,661.72
3/4		3/4		3/4		3/4	4,465.65	3/4	4,209.01	3/4	3,946.51	3/4	3,670.65	3/4	3,383.46	3/4	3,018.79	3/4	2,654.12
1		1		1		1	4,460.61	1	4,203.70	1	3,940.88	1	3,664.81	1	3,375.86	1	3,011.19	1	2,646.52
1/4		1/4		1/4		1/4	4,455.57	1/4	4,198.39	1/4	3,935.24	1/4	3,658.98	1/4	3,368.27	1/4	3,003.60	1/4	2,638.92
1/2		1/2		1/2		1/2	4,449.90	1/2	4,193.06	1/2	3,929.59	1/2	3,653.14	1/2	3,360.67	1/2	2,996.00	1/2	2,631.33
3/4		3/4		3/4		3/4	4,444.23	3/4	4,187.73	3/4	3,923.94	3/4	3,647.31	3/4	3,353.07	3/4	2,988.40	3/4	2,623.73
2		2		2		2	4,438.55	2	4,182.40	2	3,918.28	2	3,641.47	2	3,345.47	2	2,980.80	2	2,616.13
1/4		1/4		1/4		1/4	4,432.88	1/4	4,177.07	1/4	3,912.63	1/4	3,635.63	1/4	3,337.88	1/4	2,973.21	1/4	2,608.54
1/2		1/2		1/2		1/2	4,427.13	1/2	4,171.72	1/2	3,906.96	1/2	3,629.80	1/2	3,330.28	1/2	2,965.61	1/2	2,600.94
3/4		3/4		3/4		3/4	4,421.38	3/4	4,166.37	3/4	3,901.28	3/4	3,623.96	3/4	3,322.68	3/4	2,958.01	3/4	2,593.34
3		3		3		3	4,415.62	3	4,161.02	3	3,895.61	3	3,618.12	3	3,315.08	3	2,950.41	3	2,585.74
1/4		1/4		1/4		1/4	4,409.87	1/4	4,155.67	1/4	3,889.94	1/4	3,612.29	1/4	3,307.49	1/4	2,942.82	1/4	2,578.15
1/2		1/2		1/2		1/2	4,404.27	1/2	4,150.30	1/2	3,884.25	1/2	3,606.45	1/2	3,299.89	1/2	2,935.22	1/2	2,570.55
3/4		3/4		3/4		3/4	4,398.67	3/4	4,144.93	3/4	3,878.56	3/4	3,600.62	3/4	3,292.29	3/4	2,927.62	3/4	2,562.95
4		4		4		4	4,393.06	4	4,139.56	4	3,872.87	4	3,594.78	4	3,284.70	4	2,920.02	4	2,555.35
1/4		1/4		1/4		1/4	4,387.46	1/4	4,134.19	1/4	3,867.18	1/4	3,588.94	1/4	3,277.10	1/4	2,912.43	1/4	2,547.76
1/2		1/2		1/2		1/2	4,382.15	1/2	4,128.80	1/2	3,861.47	1/2	3,583.11	1/2	3,269.50	1/2	2,904.83	1/2	2,540.16
3/4		3/4		3/4		3/4	4,376.84	3/4	4,123.41	3/4	3,855.76	3/4	3,577.27	3/4	3,261.90	3/4	2,897.23	3/4	2,532.56
5		5		5		5	4,371.53	5	4,118.02	5	3,850.05	5	3,571.43	5	3,254.31	5	2,889.64	5	2,524.97
1/4		1/4		1/4		1/4	4,366.22	1/4	4,112.63	1/4	3,844.34	1/4	3,565.60	1/4	3,246.71	1/4	2,882.04	1/4	2,517.37
1/2		1/2		1/2		1/2	4,361.05	1/2	4,107.22	1/2	3,838.61	1/2	3,559.76	1/2	3,239.11	1/2	2,874.44	1/2	2,509.77
3/4		3/4		3/4		3/4	4,355.87	3/4	4,101.81	3/4	3,832.88	3/4	3,553.93	3/4	3,231.51	3/4	2,866.84	3/4	2,502.17
6		6		6		6	4,350.70	6	4,096.40	6	3,827.15	6	3,548.09	6	3,223.92	6	2,859.25	6	2,494.58
1/4		1/4		1/4		1/4	4,345.52	1/4	4,090.99	1/4	3,821.42	1/4	3,542.25	1/4	3,216.32	1/4	2,851.65	1/4	2,486.98
1/2		1/2		1/2		1/2	4,340.33	1/2	4,085.54	1/2	3,815.67	1/2	3,536.42	1/2	3,208.72	1/2	2,844.05	1/2	2,479.38
3/4		3/4		3/4		3/4	4,335.13	3/4	4,080.09	3/4	3,809.93	3/4	3,530.58	3/4	3,201.13	3/4	2,836.45	3/4	2,471.78
7		7		7		7	4,329.93	7	4,074.64	7	3,804.18	7	3,524.74	7	3,193.53	7	2,828.86	7	2,464.19
1/4		1/4		1/4		1/4	4,324.74	1/4	4,069.18	1/4	3,798.43	1/4	3,518.91	1/4	3,185.93	1/4	2,821.26	1/4	2,456.59
1/2		1/2		1/2		1/2	4,319.52	1/2	4,063.67	1/2	3,792.66	1/2	3,513.07	1/2	3,178.33	1/2	2,813.66	1/2	2,448.99
3/4		3/4		3/4		3/4	4,314.31	3/4	4,058.16	3/4	3,786.89	3/4	3,507.23	3/4	3,170.74	3/4	2,806.07	3/4	2,441.40
8		8		8		8	4,309.09	8	4,052.64	8	3,781.12	8	3,501.40	8	3,163.14	8	2,798.47	8	2,433.80
1/4		1/4		1/4		1/4	4,303.88	1/4	4,047.13	1/4	3,775.35	1/4	3,495.56	1/4	3,155.54	1/4	2,790.87	1/4	2,426.20
1/2		1/2		1/2		1/2	4,298.64	1/2	4,041.58	1/2	3,769.56	1/2	3,489.73	1/2	3,147.94	1/2	2,783.27	1/2	2,418.60
3/4		3/4		3/4		3/4	4,293.41	3/4	4,036.02	3/4	3,763.77	3/4	3,483.89	3/4	3,140.35	3/4	2,775.68	3/4	2,411.01
9		9		9		9	4,288.17	9	4,030.47	9	3,757.99	9	3,478.05	9	3,132.75	9	2,768.08	9	2,403.41
1/4		1/4		1/4		1/4	4,282.94	1/4	4,024.91	1/4	3,752.20	1/4	3,472.22	1/4	3,125.15	1/4	2,760.48	1/4	2,395.81
1/2		1/2		1/2		1/2	4,277.68	1/2	4,019.34	1/2	3,746.39	1/2	3,466.38	1/2	3,117.55	1/2	2,752.88	1/2	2,388.21
3/4		3/4		3/4		3/4	4,272.43	3/4	4,013.76	3/4	3,740.58	3/4	3,460.54	3/4	3,109.96	3/4	2,745.29	3/4	2,380.62
10		10		10		10	4,267.17	10	4,008.19	10	3,734.77	10	3,454.71	10	3,102.36	10	2,737.69	10	2,373.02
1/4		1/4		1/4		1/4	4,261.91	1/4	4,002.62	1/4	3,728.96	1/4	3,448.87	1/4	3,094.76	1/4	2,729.09	1/4	2,365.42
1/2		1/2		1/2		1/2	4,256.64	1/2	3,997.02	1/2	3,723.14	1/2	3,443.04	1/2	3,087.17	1/2	2,722.50	1/2	2,357.82
3/4		3/4		3/4		3/4	4,251.36	3/4	3,991.43	3/4	3,717.31	3/4	3,437.20	3/4	3,079.57	3/4	2,714.90	3/4	2,350.23
11		11		11		11	4,246.09	11	3,985.83	11	3,711.48	11	3,431.36	11	3,071.97	11	2,707.30	11	2,342.63
1/4		1/4		1/4	4,494.66	1/4	4,240.81	1/4	3,980.24	1/4	3,705.66	1/4	3,425.53	1/4	3,064.37	1/4	2,699.70	1/4	2,335.03
1/2		1/2		1/2	4,489.93	1/2	4,235.52	1/2	3,974.62	1/2	3,699.83	1/2	3,418.81	1/2	3,056.78	1/2	2,692.11	1/2	2,327.44
3/4		3/4		3/4	4,485.20	3/4	4,230.23	3/4	3,969.01	3/4	3,693.99	3/4	3,412.09	3/4	3,049.18	3/4	2,684.51	3/4	2,319.84

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 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28169"

## 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.	
0	2,312.24	0	1,947.57	0	1,582.89	0	1,222.09	0	858.43	0	493.80	0	130.03	0		0		0	
1/4	2,304.64	1/4	1,939.97	1/4	1,575.29	1/4	1,214.49	1/4	850.86	1/4	486.20	1/4	122.75	1/4	1/4	1/4		1/4	
1/2	2,297.05	1/2	1,932.37	1/2	1,567.69	1/2	1,206.89	1/2	843.28	1/2	478.61	1/2	116.42	1/2	1/2	1/2		1/2	
3/4	2,289.45	3/4	1,924.77	3/4	1,560.09	3/4	1,199.29	3/4	835.69	3/4	471.01	3/4	110.09	3/4	3/4	3/4		3/4	
1	2,281.85	1	1,917.18	1	1,552.50	1	1,191.69	1	828.10	1	463.41	1	103.76	1	1	1		1	
1/4	2,274.25	1/4	1,909.58	1/4	1,544.90	1/4	1,184.09	1/4	820.52	1/4	455.81	1/4	97.43	1/4	1/4	1/4		1/4	
1/2	2,266.66	1/2	1,901.98	1/2	1,537.30	1/2	1,176.50	1/2	812.92	1/2	448.21	1/2	92.37	1/2	1/2	1/2		1/2	
3/4	2,259.06	3/4	1,894.38	3/4	1,529.70	3/4	1,168.90	3/4	805.32	3/4	440.62	3/4	87.31	3/4	3/4	3/4		3/4	
2	2,251.46	2	1,886.79	2	1,522.11	2	1,161.30	2	797.73	2	433.02	2	82.25	2	2	2		2	
1/4	2,243.87	1/4	1,879.19	1/4	1,514.51	1/4	1,153.70	1/4	790.13	1/4	425.42	1/4	77.19	1/4	1/4	1/4		1/4	
1/2	2,236.27	1/2	1,871.59	1/2	1,506.91	1/2	1,146.12	1/2	782.53	1/2	417.82	1/2	73.41	1/2	1/2	1/2		1/2	
3/4	2,228.67	3/4	1,863.99	3/4	1,499.31	3/4	1,138.53	3/4	774.93	3/4	410.22	3/4	69.63	3/4	3/4	3/4		3/4	
3	2,221.07	3	1,856.40	3	1,491.72	3	1,130.94	3	767.33	3	402.62	3	65.85	3	3	3		3	
1/4	2,213.48	1/4	1,848.80	1/4	1,484.12	1/4	1,123.36	1/4	759.74	1/4	395.03	1/4	62.07	1/4	1/4	1/4		1/4	
1/2	2,205.88	1/2	1,841.20	1/2	1,476.60	1/2	1,115.79	1/2	752.14	1/2	387.43	1/2	59.57	1/2	1/2	1/2		1/2	
3/4	2,198.28	3/4	1,833.60	3/4	1,469.09	3/4	1,108.22	3/4	744.54	3/4	379.83	3/4	57.07	3/4	3/4	3/4		3/4	
4	2,190.68	4	1,826.01	4	1,461.57	4	1,100.65	4	736.94	4	372.23	4	54.58	4	4	4		4	
1/4	2,183.09	1/4	1,818.41	1/4	1,454.05	1/4	1,093.08	1/4	729.34	1/4	364.63	1/4	52.08	1/4	1/4	1/4		1/4	
1/2	2,175.49	1/2	1,810.81	1/2	1,446.62	1/2	1,085.51	1/2	721.75	1/2	357.03	1/2	50.88	1/2	1/2	1/2		1/2	
3/4	2,167.89	3/4	1,803.21	3/4	1,439.18	3/4	1,077.94	3/4	714.15	3/4	349.44	3/4	49.68	3/4	3/4	3/4		3/4	
5	2,160.29	5	1,795.62	5	1,431.75	5	1,070.37	5	706.55	5	341.84	5	48.48	5	5	5		5	
1/4	2,152.70	1/4	1,788.02	1/4	1,424.31	1/4	1,062.80	1/4	698.95	1/4	334.24	1/4	47.29	1/4	1/4	1/4		1/4	
1/2	2,145.10	1/2	1,780.42	1/2	1,416.88	1/2	1,055.23	1/2	691.36	1/2	326.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,137.50	3/4	1,772.82	3/4	1,409.44	3/4	1,047.66	3/4	683.76	3/4	319.04	3/4		3/4	3/4	3/4		3/4	
6	2,129.91	6	1,765.23	6	1,402.01	6	1,040.09	6	676.16	6	311.44	6		6	6	6		6	
1/4	2,122.31	1/4	1,757.63	1/4	1,394.57	1/4	1,032.52	1/4	668.56	1/4	303.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,114.71	1/2	1,750.03	1/2	1,387.13	1/2	1,024.96	1/2	660.96	1/2	296.25	1/2		1/2	1/2	1/2		1/2	
3/4	2,107.11	3/4	1,742.43	3/4	1,379.70	3/4	1,017.39	3/4	653.37	3/4	288.65	3/4		3/4	3/4	3/4		3/4	
7	2,099.52	7	1,734.84	7	1,372.26	7	1,009.82	7	645.77	7	281.05	7		7	7	7		7	
1/4	2,091.92	1/4	1,727.24	1/4	1,364.83	1/4	1,002.25	1/4	638.17	1/4	273.45	1/4		1/4	1/4	1/4		1/4	
1/2	2,084.32	1/2	1,719.64	1/2	1,357.39	1/2	994.68	1/2	630.57	1/2	265.85	1/2		1/2	1/2	1/2		1/2	
3/4	2,076.72	3/4	1,712.04	3/4	1,349.96	3/4	987.11	3/4	622.97	3/4	258.26	3/4		3/4	3/4	3/4		3/4	
8	2,069.13	8	1,704.45	8	1,342.52	8	979.54	8	615.38	8	250.66	8		8	8	8		8	
1/4	2,061.53	1/4	1,696.85	1/4	1,335.09	1/4	971.97	1/4	607.78	1/4	243.06	1/4		1/4	1/4	1/4		1/4	
1/2	2,053.93	1/2	1,689.25	1/2	1,327.65	1/2	964.40	1/2	600.18	1/2	235.46	1/2		1/2	1/2	1/2		1/2	
3/4	2,046.34	3/4	1,681.65	3/4	1,320.21	3/4	956.83	3/4	592.58	3/4	227.86	3/4		3/4	3/4	3/4		3/4	
9	2,038.74	9	1,674.06	9	1,312.78	9	949.27	9	584.98	9	220.26	9		9	9	9		9	
1/4	2,031.14	1/4	1,666.46	1/4	1,305.34	1/4	941.70	1/4	577.38	1/4	212.67	1/4		1/4	1/4	1/4		1/4	
1/2	2,023.54	1/2	1,658.86	1/2	1,297.82	1/2	934.13	1/2	569.79	1/2	205.07	1/2		1/2	1/2	1/2		1/2	
3/4	2,015.95	3/4	1,651.26	3/4	1,290.31	3/4	926.56	3/4	562.19	3/4	197.47	3/4		3/4	3/4	3/4		3/4	
10	2,008.35	10	1,643.67	10	1,282.79	10	918.99	10	554.59	10	189.87	10		10	10	10		10	
1/4	2,000.75	1/4	1,636.07	1/4	1,275.27	1/4	911.42	1/4	546.99	1/4	182.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,993.15	1/2	1,628.47	1/2	1,267.67	1/2	903.85	1/2	539.39	1/2	174.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,985.56	3/4	1,620.87	3/4	1,260.08	3/4	896.28	3/4	531.79	3/4	167.08	3/4		3/4	3/4	3/4		3/4	
11	1,977.96	11	1,613.28	11	1,252.48	11	888.71	11	524.20	11	159.48	11		11	11	11		11	
1/4	1,970.36	1/4	1,605.68	1/4	1,244.88	1/4	881.14	1/4	516.60	1/4	151.88	1/4		1/4	1/4	1/4		1/4	
1/2	1,962.76	1/2	1,598.08	1/2	1,237.28	1/2	873.57	1/2	509.00	1/2	144.60	1/2		1/2	1/2	1/2		1/2	
3/4	1,955.17	3/4	1,590.48	3/4	1,229.68	3/4	866.00	3/4	501.40	3/4	137.32	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/21/2011 CL - SW  
CALCULATED: 04/21/2011 CL  
PRINTED: 04/21/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2011

PRECISION MEASUREMENT  
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