



KIRBY 28038



Barge Strapping Tables





BARGE "KIRBY 28038"

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-06"

March 15, 2005

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "KIRBY 28038"

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS.			GAUGE HEIGHT 16'-10 3/8"											
IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.				
0	0	0	0	4,352.34	4,052.64	3,756.45	3,445.62	3,121.26	2,789.90	2,458.52				
1/4	1/4	1/4	1/4	4,347.16	4,046.63	3,750.12	3,439.01	3,114.37	2,782.99	2,451.62				
1/2	1/2	1/2	1/2	4,341.12	4,040.60	3,743.77	3,432.38	3,107.47	2,776.09	2,444.71				
3/4	3/4	3/4	3/4	4,334.21	4,034.55	3,737.42	3,425.75	3,100.56	2,769.19	2,437.81				
1	1	1	1	4,327.31	4,028.51	3,731.06	3,419.11	3,093.66	2,762.28	2,430.90				
1 1/4	1 1/4	1 1/4	1 1/4	4,320.40	4,022.46	3,724.70	3,412.45	3,086.76	2,755.38	2,424.00				
1 1/2	1 1/2	1 1/2	1 1/2	4,313.50	4,016.41	3,718.34	3,405.83	3,079.85	2,748.48	2,417.09				
1 3/4	1 3/4	1 3/4	1 3/4	4,306.59	4,010.35	3,711.96	3,399.17	3,072.95	2,741.57	2,410.19				
2	2	2	2	4,299.69	4,004.28	3,705.58	3,392.50	3,066.05	2,734.67	2,403.28				
2 1/4	2 1/4	2 1/4	2 1/4	4,292.78	3,998.22	3,699.21	3,385.84	3,059.14	2,727.76	2,396.38				
2 1/2	2 1/2	2 1/2	2 1/2	4,285.88	3,992.15	3,692.82	3,379.17	3,052.24	2,720.86	2,389.47				
2 3/4	2 3/4	2 3/4	2 3/4	4,278.97	3,986.06	3,686.41	3,372.48	3,045.34	2,713.96	2,382.57				
3	3	3	3	4,272.07	3,979.97	3,680.01	3,365.80	3,038.43	2,707.05	2,375.66				
3 1/4	3 1/4	3 1/4	3 1/4	4,265.16	3,973.89	3,673.60	3,359.12	3,031.53	2,700.15	2,368.76				
3 1/2	3 1/2	3 1/2	3 1/2	4,258.26	3,967.79	3,667.19	3,352.42	3,024.62	2,693.25	2,361.85				
3 3/4	3 3/4	3 3/4	3 3/4	4,251.35	3,961.68	3,660.76	3,345.72	3,017.72	2,686.34	2,354.95				
4	4	4	4	4,244.45	3,955.56	3,654.34	3,339.01	3,010.82	2,679.44	2,348.04				
4 1/4	4 1/4	4 1/4	4 1/4	4,237.54	3,949.45	3,647.91	3,332.31	3,003.91	2,672.54	2,341.14				
4 1/2	4 1/2	4 1/2	4 1/2	4,231.15	3,943.33	3,641.47	3,325.59	2,997.01	2,665.63	2,334.23				
4 3/4	4 3/4	4 3/4	4 3/4	4,225.26	3,937.19	3,635.03	3,318.86	2,990.11	2,658.73	2,327.33				
5	5	5	5	4,219.37	3,931.06	3,628.58	3,312.13	2,983.20	2,651.82	2,320.42				
5 1/4	5 1/4	5 1/4	5 1/4	4,213.47	3,924.93	3,622.13	3,305.40	2,976.30	2,644.92	2,313.52				
5 1/2	5 1/2	5 1/2	5 1/2	4,207.57	3,918.78	3,615.67	3,298.65	2,969.39	2,638.02	2,306.61				
5 3/4	5 3/4	5 3/4	5 3/4	4,201.66	3,912.63	3,609.20	3,291.90	2,962.49	2,631.11	2,299.71				
6	6	6	6	4,195.75	3,906.47	3,602.72	3,285.15	2,955.59	2,624.21	2,292.80				
6 1/4	6 1/4	6 1/4	6 1/4	4,189.84	3,900.32	3,596.25	3,278.39	2,948.68	2,617.31	2,285.90				
6 1/2	6 1/2	6 1/2	6 1/2	4,183.92	3,894.15	3,589.77	3,271.63	2,941.78	2,610.40	2,278.99				
6 3/4	6 3/4	6 3/4	6 3/4	4,177.99	3,887.97	3,583.27	3,264.84	2,934.88	2,603.50	2,272.09				
7	7	7	7	4,172.06	3,881.79	3,576.78	3,258.06	2,927.97	2,596.59	2,265.18				
7 1/4	7 1/4	7 1/4	7 1/4	4,166.12	3,875.60	3,570.28	3,251.27	2,921.07	2,589.69	2,258.28				
7 1/2	7 1/2	7 1/2	7 1/2	4,160.18	3,869.41	3,563.77	3,244.48	2,914.16	2,582.79	2,251.37				
7 3/4	7 3/4	7 3/4	7 3/4	4,154.22	3,863.21	3,557.26	3,237.68	2,907.26	2,575.88	2,244.47				
8	8	8	8	4,148.26	3,857.01	3,550.74	3,230.88	2,900.36	2,568.98	2,237.56				
8 1/4	8 1/4	8 1/4	8 1/4	4,142.30	3,850.80	3,544.22	3,224.08	2,893.45	2,562.08	2,230.66				
8 1/2	8 1/2	8 1/2	8 1/2	4,136.35	3,844.57	3,537.69	3,217.27	2,886.55	2,555.17	2,223.75				
8 3/4	8 3/4	8 3/4	8 3/4	4,130.40	3,838.31	3,531.15	3,210.44	2,879.65	2,548.27	2,216.85				
9	9	9	9	4,124.45	3,832.05	3,524.61	3,203.62	2,872.74	2,541.36	2,209.94				
9 1/4	9 1/4	9 1/4	9 1/4	4,118.51	3,825.79	3,518.06	3,196.80	2,865.84	2,534.46	2,203.04				
9 1/2	9 1/2	9 1/2	9 1/2	4,112.55	3,819.52	3,511.51	3,189.96	2,858.94	2,527.56	2,196.13				
9 3/4	9 3/4	9 3/4	9 3/4	4,106.58	3,813.24	3,504.94	3,183.11	2,852.03	2,520.65	2,189.23				
10	10	10	10	4,100.61	3,806.95	3,498.38	3,176.26	2,845.13	2,513.75	2,182.32				
10 1/4	10 1/4	10 1/4	10 1/4	4,094.65	3,800.67	3,491.81	3,169.40	2,838.22	2,506.85	2,175.42				
10 1/2	10 1/2	10 1/2	10 1/2	4,088.67	3,794.37	3,485.23	3,162.54	2,831.32	2,499.94	2,168.51				
10 3/4	10 3/4	10 3/4	10 3/4	4,082.68	3,788.06	3,478.64	3,155.67	2,824.42	2,493.04	2,161.61				
11	11	11	11	4,076.68	3,781.75	3,472.05	3,148.80	2,817.51	2,486.14	2,154.70				
11 1/4	11 1/4	11 1/4	11 1/4	4,070.68	3,775.45	3,465.45	3,141.93	2,810.61	2,479.23	2,147.80				
11 1/2	11 1/2	11 1/2	11 1/2	4,064.68	3,769.13	3,458.85	3,135.05	2,803.71	2,472.33	2,140.89				
11 3/4	11 3/4	11 3/4	11 3/4	4,058.66	3,762.79	3,452.23	3,128.15	2,796.80	2,465.42	2,133.99				

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 27
 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" OFF CENTERLINE AND 16" FORWARD OF AFT BULKHEAD
 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY
 PRECISION MEASUREMENT & ANALYSIS, INC
 P.O. Box 2032
 Pearland, Texas 77588
<http://www.pma corp.net>





BARGE "KIRBY 28038"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-10 3/8"

H	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	2,127.08	1,795.84	1,464.20	1,132.76	802.22	503.62	223.48			
1/4	2,120.18	1,788.74	1,457.30	1,125.86	800.65	497.54	217.88			
1/2	2,113.27	1,781.83	1,450.39	1,118.95	794.11	491.47	212.30			
3/4	2,106.37	1,774.93	1,443.49	1,112.05	787.59	485.42	206.75			
1	2,099.46	1,768.02	1,436.58	1,105.14	781.07	479.38	201.20			
1 1/4	2,092.56	1,761.12	1,429.68	1,098.24	774.55	473.33	195.65			
1 1/2	2,085.65	1,754.21	1,422.77	1,091.33	768.04	467.31	190.11			
1 3/4	2,078.75	1,747.31	1,415.87	1,084.43	761.56	461.30	184.60			
2	2,071.84	1,740.40	1,408.96	1,077.52	755.08	455.29	179.08			
2 1/4	2,064.94	1,733.50	1,402.06	1,070.62	748.60	449.29	173.56			
2 1/2	2,058.03	1,726.59	1,395.15	1,063.72	742.13	443.30	168.07			
2 3/4	2,051.13	1,719.69	1,388.25	1,056.82	735.68	437.34	162.60			
3	2,044.22	1,712.78	1,381.34	1,049.93	729.22	431.38	157.13			
3 1/4	2,037.32	1,705.88	1,374.44	1,043.03	722.76	425.44	151.66			
3 1/2	2,030.41	1,698.97	1,367.53	1,036.14	716.33	419.47	146.20			
3 3/4	2,023.51	1,692.07	1,360.63	1,029.26	709.91	413.55	140.77			
4	2,016.60	1,685.16	1,353.72	1,022.38	703.50	407.62	135.33			
4 1/4	2,009.70	1,678.26	1,346.82	1,015.50	697.08	401.70	129.90			
4 1/2	2,002.79	1,671.35	1,339.91	1,008.63	690.59	395.79	124.49			
4 3/4	1,995.89	1,664.45	1,333.01	1,001.78	684.31	389.91	119.10			
5	1,988.98	1,657.54	1,326.10	994.92	677.94	384.03	113.71			
5 1/4	1,982.08	1,650.64	1,319.20	988.07	671.57	378.15	108.32			
5 1/2	1,975.17	1,643.73	1,312.29	981.23	665.21	372.29	102.95			
5 3/4	1,968.27	1,636.83	1,305.39	974.40	658.88	366.44	97.61			
6	1,961.36	1,629.92	1,298.48	967.68	652.55	360.60	92.26			
6 1/4	1,954.46	1,623.02	1,291.58	960.76	646.21	354.76	86.91			
6 1/2	1,947.55	1,616.11	1,284.67	953.96	639.90	348.94	81.58			
6 3/4	1,940.65	1,609.21	1,277.77	947.19	633.61	343.14	76.27			
7	1,933.74	1,602.30	1,270.86	940.42	627.32	337.34	70.97			
7 1/4	1,926.84	1,595.40	1,263.96	933.66	621.03	331.54	65.67			
7 1/2	1,919.93	1,588.49	1,257.05	926.91	614.75	325.76	60.38			
7 3/4	1,913.03	1,581.59	1,250.15	920.18	608.50	320.00	55.11			
8	1,906.12	1,574.68	1,243.24	913.46	602.25	314.24	49.85			
8 1/4	1,899.22	1,567.78	1,236.34	906.73	596.00	308.48	44.58			
8 1/2	1,892.31	1,560.87	1,229.43	900.02	589.77	302.74	39.77			
8 3/4	1,885.41	1,553.97	1,222.53	893.34	583.56	297.02	35.41			
9	1,878.50	1,547.06	1,215.62	886.65	577.35	291.30	31.05			
9 1/4	1,871.60	1,540.16	1,208.72	879.97	571.14	285.59	26.69			
9 1/2	1,864.69	1,533.25	1,201.81	873.30	564.95	279.89	23.21			
9 3/4	1,857.79	1,526.35	1,194.91	866.65	558.78	274.21	20.62			
10	1,850.88	1,519.44	1,188.00	860.01	552.61	268.53	18.02			
10 1/4	1,843.98	1,512.54	1,181.10	853.36	546.44	262.85	15.43			
10 1/2	1,837.07	1,505.63	1,174.19	846.74	540.29	257.19	14.13			
10 3/4	1,830.17	1,498.73	1,167.29	840.14	534.16	251.56	11.11			
11	1,823.26	1,491.82	1,160.38	833.53	528.04	245.92	11.11			
11 1/4	1,816.36	1,484.92	1,153.48	826.93	521.91	240.29	11.11			
11 1/2	1,809.45	1,478.01	1,146.57	820.35	515.80	234.67	11.11			
11 3/4	1,802.55	1,471.11	1,139.67	813.78	509.71	229.08	11.11			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED, 03/14/2005 CL - SW
CALCULATED 03/15/2005 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2005

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



BARGE "KIRBY 28038"

1 STBD

ULLAGE TABLE

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

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S
0	0	0	0	4,348.28	0	4,048.74	0	3,752.71	0	3,442.04	0	3,117.85	0	2,786.66	0	2,455.46	0	2,124.26	0
1/4	1/4	1/4	1/4	4,343.10	1/4	4,042.73	1/4	3,746.37	1/4	3,435.43	1/4	3,110.96	1/4	2,779.76	1/4	2,448.56	1/4	2,117.36	1/4
1/2	1/2	1/2	1/2	4,337.07	1/2	4,036.70	1/2	3,740.03	1/2	3,428.81	1/2	3,104.06	1/2	2,772.86	1/2	2,441.66	1/2	2,113.91	1/2
3/4	3/4	3/4	3/4	4,330.16	3/4	4,030.66	3/4	3,733.68	3/4	3,422.18	3/4	3,097.16	3/4	2,765.96	3/4	2,434.76	3/4	2,110.46	3/4
1	1	1	1	4,323.26	1	4,024.62	1	3,727.33	1	3,415.54	1	3,090.26	1	2,759.06	1	2,427.85	1	2,107.01	1
1/4	1/4	1/4	1/4	4,316.36	1/4	4,018.58	1/4	3,720.98	1/4	3,408.91	1/4	3,083.36	1/4	2,752.16	1/4	2,420.95	1/4	2,103.56	1/4
1/2	1/2	1/2	1/2	4,309.46	1/2	4,012.53	1/2	3,714.61	1/2	3,402.27	1/2	3,076.46	1/2	2,745.26	1/2	2,414.05	1/2	2,100.11	1/2
3/4	3/4	3/4	3/4	4,302.56	3/4	4,006.47	3/4	3,708.24	3/4	3,395.61	3/4	3,069.56	3/4	2,738.36	3/4	2,407.15	3/4	2,096.66	3/4
2	2	2	2	4,295.66	2	4,000.41	2	3,701.87	2	3,388.95	2	3,062.86	2	2,731.46	2	2,400.25	2	2,093.21	2
1/4	1/4	1/4	1/4	4,288.76	1/4	3,994.35	1/4	3,695.49	1/4	3,382.29	1/4	3,055.76	1/4	2,724.56	1/4	2,393.35	1/4	2,089.76	1/4
1/2	1/2	1/2	1/2	4,281.85	1/2	3,988.28	1/2	3,689.10	1/2	3,375.62	1/2	3,048.86	1/2	2,717.66	1/2	2,386.44	1/2	2,086.31	1/2
3/4	3/4	3/4	3/4	4,274.95	3/4	3,982.19	3/4	3,682.70	3/4	3,368.94	3/4	3,041.96	3/4	2,710.76	3/4	2,379.54	3/4	2,082.86	3/4
3	3	3	3	4,268.05	3	3,976.11	3	3,676.30	3	3,362.26	3	3,035.06	3	2,703.86	3	2,372.64	3	2,079.41	3
1/4	1/4	1/4	1/4	4,261.15	1/4	3,970.03	1/4	3,669.90	1/4	3,355.58	1/4	3,028.16	1/4	2,696.96	1/4	2,365.74	1/4	2,075.96	1/4
1/2	1/2	1/2	1/2	4,254.25	1/2	3,963.93	1/2	3,663.49	1/2	3,348.89	1/2	3,021.26	1/2	2,690.06	1/2	2,358.84	1/2	2,072.51	1/2
3/4	3/4	3/4	3/4	4,247.35	3/4	3,957.82	3/4	3,657.06	3/4	3,342.19	3/4	3,014.36	3/4	2,683.16	3/4	2,351.94	3/4	2,069.06	3/4
4	4	4	4	4,240.45	4	3,951.71	4	3,650.64	4	3,335.49	4	3,007.46	4	2,676.26	4	2,345.04	4	2,065.61	4
1/4	1/4	1/4	1/4	4,233.55	1/4	3,945.60	1/4	3,644.22	1/4	3,328.79	1/4	3,000.56	1/4	2,669.36	1/4	2,338.14	1/4	2,062.16	1/4
1/2	1/2	1/2	1/2	4,227.15	1/2	3,939.48	1/2	3,637.79	1/2	3,322.07	1/2	2,993.66	1/2	2,662.46	1/2	2,331.23	1/2	2,058.71	1/2
3/4	3/4	3/4	3/4	4,221.26	3/4	3,933.35	3/4	3,631.34	3/4	3,315.34	3/4	2,986.76	3/4	2,655.56	3/4	2,324.33	3/4	2,055.26	3/4
5	5	5	5	4,215.38	5	3,927.22	5	3,624.90	5	3,308.91	5	2,979.86	5	2,648.66	5	2,317.43	5	2,051.81	5
1/4	1/4	1/4	1/4	4,209.49	1/4	3,921.09	1/4	3,618.46	1/4	3,301.89	1/4	2,972.96	1/4	2,641.76	1/4	2,310.53	1/4	2,048.36	1/4
1/2	1/2	1/2	1/2	4,203.59	1/2	3,914.95	1/2	3,612.00	1/2	3,295.15	1/2	2,966.06	1/2	2,634.86	1/2	2,303.63	1/2	2,044.91	1/2
3/4	3/4	3/4	3/4	4,197.68	3/4	3,908.80	3/4	3,605.53	3/4	3,288.40	3/4	2,959.16	3/4	2,627.96	3/4	2,296.73	3/4	2,041.46	3/4
6	6	6	6	4,191.78	6	3,902.65	6	3,599.06	6	3,281.65	6	2,952.26	6	2,621.06	6	2,289.83	6	2,038.01	6
1/4	1/4	1/4	1/4	4,185.87	1/4	3,896.50	1/4	3,592.59	1/4	3,274.90	1/4	2,945.36	1/4	2,614.16	1/4	2,282.92	1/4	2,034.56	1/4
1/2	1/2	1/2	1/2	4,179.95	1/2	3,890.33	1/2	3,586.11	1/2	3,268.13	1/2	2,938.46	1/2	2,607.26	1/2	2,276.02	1/2	2,031.11	1/2
3/4	3/4	3/4	3/4	4,174.02	3/4	3,884.15	3/4	3,579.62	3/4	3,261.35	3/4	2,931.56	3/4	2,600.36	3/4	2,269.12	3/4	2,027.66	3/4
7	7	7	7	4,168.09	7	3,877.97	7	3,573.12	7	3,254.57	7	2,924.66	7	2,593.46	7	2,262.22	7	2,024.21	7
1/4	1/4	1/4	1/4	4,162.16	1/4	3,871.80	1/4	3,566.63	1/4	3,247.79	1/4	2,917.76	1/4	2,586.56	1/4	2,255.32	1/4	2,020.76	1/4
1/2	1/2	1/2	1/2	4,156.22	1/2	3,865.61	1/2	3,560.13	1/2	3,241.00	1/2	2,910.86	1/2	2,579.66	1/2	2,248.42	1/2	2,017.31	1/2
3/4	3/4	3/4	3/4	4,150.26	3/4	3,859.41	3/4	3,553.62	3/4	3,234.21	3/4	2,903.96	3/4	2,572.76	3/4	2,241.52	3/4	2,013.86	3/4
8	8	8	8	4,144.31	8	3,853.21	8	3,547.10	8	3,227.41	8	2,897.06	8	2,565.86	8	2,234.61	8	2,010.41	8
1/4	1/4	1/4	1/4	4,138.35	1/4	3,847.01	1/4	3,540.59	1/4	3,220.61	1/4	2,890.16	1/4	2,558.96	1/4	2,227.71	1/4	2,006.96	1/4
1/2	1/2	1/2	1/2	4,132.40	1/2	3,840.78	1/2	3,534.06	1/2	3,213.80	1/2	2,883.26	1/2	2,552.06	1/2	2,220.81	1/2	2,003.51	1/2
3/4	3/4	3/4	3/4	4,126.46	3/4	3,834.52	3/4	3,527.52	3/4	3,206.98	3/4	2,876.36	3/4	2,545.16	3/4	2,213.91	3/4	1,999.06	3/4
9	9	9	9	4,120.52	9	3,828.27	9	3,520.98	9	3,200.16	9	2,869.46	9	2,538.26	9	2,207.01	9	1,995.61	9
1/4	1/4	1/4	1/4	4,114.57	1/4	3,822.01	1/4	3,514.44	1/4	3,193.34	1/4	2,862.56	1/4	2,531.36	1/4	2,200.11	1/4	1,992.16	1/4
1/2	1/2	1/2	1/2	4,108.62	1/2	3,815.74	1/2	3,507.89	1/2	3,186.51	1/2	2,855.66	1/2	2,524.46	1/2	2,193.21	1/2	1,988.71	1/2
3/4	3/4	3/4	3/4	4,102.65	3/4	3,809.46	3/4	3,501.33	3/4	3,179.66	3/4	2,848.76	3/4	2,517.56	3/4	2,186.30	3/4	1,985.26	3/4
10	10	10	10	4,096.69	10	3,803.18	10	3,494.77	10	3,172.81	10	2,841.86	10	2,510.66	10	2,179.40	10	1,981.81	10
1/4	1/4	1/4	1/4	4,090.72	1/4	3,796.90	1/4	3,488.21	1/4	3,165.96	1/4	2,834.96	1/4	2,503.76	1/4	2,172.50	1/4	1,978.36	1/4
1/2	1/2	1/2	1/2	4,084.74	1/2	3,790.60	1/2	3,481.63	1/2	3,159.11	1/2	2,828.06	1/2	2,496.86	1/2	2,165.60	1/2	1,974.91	1/2
3/4	3/4	3/4	3/4	4,078.75	3/4	3,784.30	3/4	3,475.04	3/4	3,152.24	3/4	2,821.16	3/4	2,489.96	3/4	2,158.70	3/4	1,971.46	3/4
11	11	11	11	4,072.76	11	3,778.00	11	3,468.45	11	3,145.37	11	2,814.26	11	2,483.06	11	2,151.80	11	1,968.01	11
1/4	1/4	1/4	1/4	4,066.77	1/4	3,771.69	1/4	3,461.86	1/4	3,138.50	1/4	2,807.36	1/4	2,476.16	1/4	2,144.90	1/4	1,964.56	1/4
1/2	1/2	1/2	1/2	4,060.77	1/2	3,765.37	1/2	3,455.26	1/2	3,131.63	1/2	2,800.46	1/2	2,469.26	1/2	2,137.99	1/2	1,961.11	1/2
3/4	3/4	3/4	3/4	4,054.75	3/4	3,759.04	3/4	3,448.65	3/4	3,124.74	3/4	2,793.56	3/4	2,462.36	3/4	2,129.09	3/4	1,957.66	3/4
12	12	12	12	4,350.87	12	4,048.75	12	3,759.04	12	3,448.65	12	3,124.74	12	2,793.56	12	2,462.36	12	2,129.09	12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
<http://www.pmacorp.net>

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 27
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 36'-03" FORWARD OF AFT BULKHEAD.



BARGE "KIRBY 28038"

1 STBD

ULLAGE TABLE

GAUGE HEIGHT 16' 10 3/8"

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALS. ONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.										
0	2,124.19	0	1,792.92	0	1,461.66	0	1,130.39	0	806.15	0	503.35	0	232.36	0	0	0	0	0	0	0
1/4	2,117.29	1/4	1,786.02	1/4	1,454.76	1/4	1,123.49	1/4	799.63	1/4	497.27	1/4	217.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,110.39	1/2	1,779.12	1/2	1,447.85	1/2	1,116.59	1/2	793.13	1/2	491.20	1/2	212.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,103.49	3/4	1,772.22	3/4	1,440.95	3/4	1,109.69	3/4	786.65	3/4	485.16	3/4	206.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,096.59	1	1,765.32	1	1,434.05	1	1,102.78	1	780.17	1	479.12	1	201.09	1	1	1	1	1	1	1
1 1/4	2,089.69	1 1/4	1,758.42	1 1/4	1,427.15	1 1/4	1,095.88	1 1/4	773.69	1 1/4	473.08	1 1/4	195.54	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,082.78	1 1/2	1,751.52	1 1/2	1,420.25	1 1/2	1,088.98	1 1/2	767.23	1 1/2	467.05	1 1/2	190.01	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	2,075.88	1 3/4	1,744.62	1 3/4	1,413.35	1 3/4	1,082.08	1 3/4	760.79	1 3/4	461.05	1 3/4	184.49	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2,068.98	2	1,737.71	2	1,406.45	2	1,075.18	2	754.35	2	455.05	2	178.98	2	2	2	2	2	2	2
2 1/4	2,062.08	2 1/4	1,730.81	2 1/4	1,399.55	2 1/4	1,068.28	2 1/4	747.91	2 1/4	449.04	2 1/4	173.47	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2,055.18	2 1/2	1,723.91	2 1/2	1,392.64	2 1/2	1,061.39	2 1/2	741.48	2 1/2	443.06	2 1/2	167.98	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2,048.28	2 3/4	1,717.01	2 3/4	1,385.74	2 3/4	1,054.49	2 3/4	735.07	2 3/4	437.10	2 3/4	162.51	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	2,041.38	3	1,710.11	3	1,378.84	3	1,047.60	3	728.65	3	431.14	3	157.04	3	3	3	3	3	3	3
3 1/4	2,034.47	3 1/4	1,703.21	3 1/4	1,371.94	3 1/4	1,040.71	3 1/4	722.24	3 1/4	425.18	3 1/4	151.57	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	2,027.57	3 1/2	1,696.31	3 1/2	1,365.04	3 1/2	1,033.82	3 1/2	715.84	3 1/2	419.24	3 1/2	146.12	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	2,020.67	3 3/4	1,689.40	3 3/4	1,358.14	3 3/4	1,026.95	3 3/4	709.45	3 3/4	413.32	3 3/4	140.69	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	2,013.77	4	1,682.50	4	1,351.24	4	1,020.07	4	703.07	4	407.40	4	135.26	4	4	4	4	4	4	4
4 1/4	2,006.87	4 1/4	1,675.60	4 1/4	1,344.33	4 1/4	1,013.19	4 1/4	696.69	4 1/4	401.48	4 1/4	129.83	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	1,999.97	4 1/2	1,668.70	4 1/2	1,337.43	4 1/2	1,006.34	4 1/2	690.31	4 1/2	395.58	4 1/2	124.42	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	1,993.07	4 3/4	1,661.80	4 3/4	1,330.53	4 3/4	999.52	4 3/4	683.94	4 3/4	389.70	4 3/4	119.03	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	1,986.16	5	1,654.90	5	1,323.63	5	992.70	5	677.57	5	383.82	5	113.65	5	5	5	5	5	5	5
5 1/4	1,979.26	5 1/4	1,648.00	5 1/4	1,316.73	5 1/4	985.88	5 1/4	671.20	5 1/4	377.94	5 1/4	108.26	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	1,972.36	5 1/2	1,641.09	5 1/2	1,309.83	5 1/2	979.07	5 1/2	664.85	5 1/2	372.08	5 1/2	102.90	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	1,965.46	5 3/4	1,634.19	5 3/4	1,302.93	5 3/4	972.29	5 3/4	658.52	5 3/4	366.25	5 3/4	97.55	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	1,958.56	6	1,627.29	6	1,296.02	6	965.50	6	652.19	6	360.41	6	92.20	6	6	6	6	6	6	6
6 1/4	1,951.66	6 1/4	1,620.39	6 1/4	1,289.12	6 1/4	958.72	6 1/4	645.86	6 1/4	354.57	6 1/4	86.86	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	1,944.76	6 1/2	1,613.49	6 1/2	1,282.22	6 1/2	951.97	6 1/2	639.55	6 1/2	348.75	6 1/2	81.53	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	1,937.85	6 3/4	1,606.59	6 3/4	1,275.32	6 3/4	945.24	6 3/4	633.26	6 3/4	342.95	6 3/4	76.23	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	1,930.95	7	1,599.69	7	1,268.42	7	938.52	7	626.98	7	337.16	7	70.93	7	7	7	7	7	7	7
7 1/4	1,924.05	7 1/4	1,592.78	7 1/4	1,261.52	7 1/4	931.79	7 1/4	620.69	7 1/4	331.36	7 1/4	65.63	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	1,917.15	7 1/2	1,585.88	7 1/2	1,254.62	7 1/2	925.09	7 1/2	614.42	7 1/2	325.58	7 1/2	60.35	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	1,910.25	7 3/4	1,578.98	7 3/4	1,247.71	7 3/4	918.40	7 3/4	608.17	7 3/4	319.83	7 3/4	55.08	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	1,903.35	8	1,572.08	8	1,240.81	8	911.71	8	601.92	8	314.07	8	49.82	8	8	8	8	8	8	8
8 1/4	1,896.45	8 1/4	1,565.18	8 1/4	1,233.91	8 1/4	905.03	8 1/4	595.67	8 1/4	308.31	8 1/4	44.55	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	1,889.54	8 1/2	1,558.28	8 1/2	1,227.01	8 1/2	898.37	8 1/2	589.45	8 1/2	302.57	8 1/2	39.74	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	1,882.64	8 3/4	1,551.38	8 3/4	1,220.11	8 3/4	891.72	8 3/4	583.24	8 3/4	296.86	8 3/4	35.39	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	1,875.74	9	1,544.47	9	1,213.21	9	885.08	9	577.03	9	291.15	9	31.03	9	9	9	9	9	9	9
9 1/4	1,868.84	9 1/4	1,537.57	9 1/4	1,206.31	9 1/4	878.44	9 1/4	570.83	9 1/4	285.43	9 1/4	26.67	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	1,861.94	9 1/2	1,530.67	9 1/2	1,199.40	9 1/2	871.81	9 1/2	564.64	9 1/2	279.74	9 1/2	23.20	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	1,855.04	9 3/4	1,523.77	9 3/4	1,192.50	9 3/4	865.21	9 3/4	558.48	9 3/4	274.06	9 3/4	20.61	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	1,848.14	10	1,516.87	10	1,185.60	10	858.61	10	552.31	10	268.38	10	18.01	10	10	10	10	10	10	10
10 1/4	1,841.23	10 1/4	1,509.97	10 1/4	1,178.70	10 1/4	852.00	10 1/4	546.14	10 1/4	262.71	10 1/4	15.42	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	1,834.33	10 1/2	1,503.07	10 1/2	1,171.80	10 1/2	845.42	10 1/2	540.00	10 1/2	257.05	10 1/2	14.12	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	1,827.43	10 3/4	1,496.16	10 3/4	1,164.90	10 3/4	838.86	10 3/4	533.87	10 3/4	251.42	10 3/4	11.91	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	1,820.53	11	1,489.26	11	1,158.00	11	832.30	11	527.75	11	245.79	11	11.11	11	11	11	11	11	11	11
11 1/4	1,813.63	11 1/4	1,482.36	11 1/4	1,151.09	11 1/4	825.74	11 1/4	521.62	11 1/4	240.16	11 1/4	10.14	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	1,806.73	11 1/2	1,475.46	11 1/2	1,144.19	11 1/2	819.20	11 1/2	515.52	11 1/2	234.54	11 1/2	9.12	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	1,799.83	11 3/4	1,468.56	11 3/4	1,137.29	11 3/4	812.67	11 3/4	509.44	11 3/4	228.95	11 3/4	8.14	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4

CERTIFIED CHART FOR THE ABOVE-NAMED TANK ONLY

STRAPPED 03/14/2005 CL - SW
CALCULATED 03/15/2005 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2005

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



BARGE "KIRBY 28038"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS														
GAUGE HEIGHT 16'-10 3/8"														
0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.					
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
0	0	0	5,267.76	4,916.27	4,570.53	0	4,206.59	0	3,826.82	0	3,438.84	0	3,050.84	
1/4	1/4	1/4	5,260.70	4,909.26	4,563.11	1/4	4,198.85	1/4	3,818.75	1/4	3,430.76	1/4	3,042.76	
1/2	1/2	1/2	5,253.63	4,902.23	4,555.68	1/2	4,191.09	1/2	3,810.67	1/2	3,422.67	1/2	3,034.69	
3/4	3/4	3/4	5,246.54	4,895.18	4,548.24	3/4	4,183.33	3/4	3,802.59	3/4	3,414.59	3/4	3,026.60	
1	1	1	5,237.46	4,888.14	4,540.80	1	4,175.56	1	3,794.51	1	3,406.51	1	3,018.52	
1 1/4	1 1/4	1 1/4	5,229.37	4,881.09	4,533.36	1 1/4	4,167.79	1 1/4	3,786.42	1 1/4	3,398.42	1 1/4	3,010.43	
1 1/2	1 1/2	1 1/2	5,221.28	4,874.04	4,525.90	1 1/2	4,160.00	1 1/2	3,778.34	1 1/2	3,390.34	1 1/2	3,002.34	
1 3/4	1 3/4	1 3/4	5,213.20	4,866.97	4,518.44	1 3/4	4,152.20	1 3/4	3,770.26	1 3/4	3,382.26	1 3/4	2,994.26	
2	2	2	5,205.11	4,859.90	4,510.97	2	4,144.40	2	3,762.17	2	3,374.17	2	2,986.17	
2 1/4	2 1/4	2 1/4	5,197.03	4,852.83	4,503.50	2 1/4	4,136.60	2 1/4	3,754.09	2 1/4	3,366.09	2 1/4	2,978.09	
2 1/2	2 1/2	2 1/2	5,188.94	4,845.75	4,496.02	2 1/2	4,128.79	2 1/2	3,746.01	2 1/2	3,358.01	2 1/2	2,970.00	
2 3/4	2 3/4	2 3/4	5,180.85	4,838.66	4,488.52	2 3/4	4,120.96	2 3/4	3,737.92	2 3/4	3,349.92	2 3/4	2,961.92	
3	3	3	5,172.77	4,831.56	4,481.02	3	4,113.14	3	3,729.84	3	3,341.84	3	2,953.83	
3 1/4	3 1/4	3 1/4	5,164.68	4,824.47	4,473.52	3 1/4	4,105.31	3 1/4	3,721.76	3 1/4	3,333.76	3 1/4	2,945.74	
3 1/2	3 1/2	3 1/2	5,156.60	4,817.36	4,466.01	3 1/2	4,097.47	3 1/2	3,713.67	3 1/2	3,325.67	3 1/2	2,937.66	
3 3/4	3 3/4	3 3/4	5,148.51	4,810.23	4,458.49	3 3/4	4,089.62	3 3/4	3,705.59	3 3/4	3,317.59	3 3/4	2,929.57	
4	4	4	5,140.43	4,803.11	4,450.96	4	4,081.77	4	3,697.51	4	3,309.51	4	2,921.49	
4 1/4	4 1/4	4 1/4	5,132.34	4,795.98	4,443.44	4 1/4	4,073.92	4 1/4	3,689.42	4 1/4	3,301.43	4 1/4	2,913.40	
4 1/2	4 1/2	4 1/2	5,124.25	4,788.84	4,435.91	4 1/2	4,066.06	4 1/2	3,681.34	4 1/2	3,293.34	4 1/2	2,905.32	
4 3/4	4 3/4	4 3/4	5,117.95	4,781.69	4,428.36	4 3/4	4,058.17	4 3/4	3,673.26	4 3/4	3,285.26	4 3/4	2,897.23	
5	5	5	5,111.05	4,774.54	4,420.81	5	4,050.29	5	3,665.17	5	3,277.18	5	2,889.14	
5 1/4	5 1/4	5 1/4	5,104.15	4,767.39	4,413.26	5 1/4	4,042.41	5 1/4	3,657.09	5 1/4	3,269.09	5 1/4	2,881.06	
5 1/2	5 1/2	5 1/2	5,097.25	4,760.23	4,405.70	5 1/2	4,034.52	5 1/2	3,649.01	5 1/2	3,261.01	5 1/2	2,872.97	
5 3/4	5 3/4	5 3/4	5,090.32	4,753.06	4,398.14	5 3/4	4,026.61	5 3/4	3,640.92	5 3/4	3,252.93	5 3/4	2,864.89	
6	6	6	5,083.42	4,745.88	4,390.54	6	4,018.70	6	3,632.84	6	3,244.84	6	2,856.80	
6 1/4	6 1/4	6 1/4	5,076.48	4,738.71	4,382.96	6 1/4	4,010.80	6 1/4	3,624.76	6 1/4	3,236.76	6 1/4	2,848.71	
6 1/2	6 1/2	6 1/2	5,069.55	4,731.51	4,375.36	6 1/2	4,002.87	6 1/2	3,616.67	6 1/2	3,228.68	6 1/2	2,840.63	
6 3/4	6 3/4	6 3/4	5,062.60	4,724.31	4,367.76	6 3/4	3,994.93	6 3/4	3,608.59	6 3/4	3,220.59	6 3/4	2,832.54	
7	7	7	5,055.65	4,717.10	4,360.15	7	3,986.99	7	3,600.51	7	3,212.51	7	2,824.46	
7 1/4	7 1/4	7 1/4	5,048.71	4,709.89	4,352.55	7 1/4	3,979.04	7 1/4	3,592.42	7 1/4	3,204.43	7 1/4	2,816.37	
7 1/2	7 1/2	7 1/2	5,041.74	4,702.67	4,344.93	7 1/2	3,971.09	7 1/2	3,584.34	7 1/2	3,196.34	7 1/2	2,808.29	
7 3/4	7 3/4	7 3/4	5,034.77	4,695.44	4,337.30	7 3/4	3,963.13	7 3/4	3,576.26	7 3/4	3,188.26	7 3/4	2,800.20	
8	8	8	5,027.79	4,688.21	4,329.67	8	3,955.16	8	3,568.17	8	3,180.18	8	2,792.11	
8 1/4	8 1/4	8 1/4	5,020.81	4,680.98	4,322.04	8 1/4	3,947.20	8 1/4	3,560.09	8 1/4	3,172.09	8 1/4	2,784.03	
8 1/2	8 1/2	8 1/2	5,013.85	4,673.70	4,314.40	8 1/2	3,939.23	8 1/2	3,552.01	8 1/2	3,164.01	8 1/2	2,775.94	
8 3/4	8 3/4	8 3/4	5,006.92	4,666.37	4,306.73	8 3/4	3,931.24	8 3/4	3,543.92	8 3/4	3,155.93	8 3/4	2,767.86	
9	9	9	4,999.99	4,659.04	4,299.07	9	3,923.25	9	3,535.84	9	3,147.84	9	2,759.77	
9 1/4	9 1/4	9 1/4	4,993.06	4,651.71	4,291.41	9 1/4	3,915.26	9 1/4	3,527.76	9 1/4	3,139.76	9 1/4	2,751.68	
9 1/2	9 1/2	9 1/2	4,986.11	4,644.37	4,283.74	9 1/2	3,907.25	9 1/2	3,519.67	9 1/2	3,131.68	9 1/2	2,743.60	
9 3/4	9 3/4	9 3/4	4,979.16	4,637.01	4,276.05	9 3/4	3,899.23	9 3/4	3,511.59	9 3/4	3,123.59	9 3/4	2,735.51	
10	10	10	4,972.20	4,629.65	4,268.36	10	3,891.21	10	3,503.51	10	3,115.51	10	2,727.43	
10 1/4	10 1/4	10 1/4	4,965.24	4,622.29	4,260.68	10 1/4	3,883.18	10 1/4	3,495.42	10 1/4	3,107.43	10 1/4	2,719.34	
10 1/2	10 1/2	10 1/2	4,958.27	4,614.92	4,252.97	10 1/2	3,875.15	10 1/2	3,487.34	10 1/2	3,099.34	10 1/2	2,711.26	
10 3/4	10 3/4	10 3/4	4,951.28	4,607.54	4,245.25	10 3/4	3,867.11	10 3/4	3,479.26	10 3/4	3,091.26	10 3/4	2,703.17	
11	11	11	4,944.29	4,600.15	4,237.53	11	3,859.06	11	3,471.17	11	3,083.18	11	2,695.08	
11 1/4	11 1/4	11 1/4	4,937.30	4,592.77	4,229.81	11 1/4	3,851.02	11 1/4	3,463.09	11 1/4	3,075.09	11 1/4	2,687.00	
11 1/2	11 1/2	11 1/2	4,930.30	4,585.37	4,222.08	11 1/2	3,842.96	11 1/2	3,455.01	11 1/2	3,067.01	11 1/2	2,678.91	
11 3/4	11 3/4	11 3/4	4,923.29	4,577.95	4,214.34	11 3/4	3,834.89	11 3/4	3,446.92	11 3/4	3,058.93	11 3/4	2,670.83	

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 17'-08" OFF CENTERLINE AND 43'-04" 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>

Tom Johnson



BARGE "KIRBY 28038"

2 PORT ULLAGE TABLE

GAUGE HEIGHT 16"-10 3/8"

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

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.	N	
0	2,662.74	0	2,274.62	0	1,886.50	0	1,498.39	0	1,110.27	0	722.65	0
1/4	2,654.66	1/4	2,266.54	1/4	1,878.42	1/4	1,490.30	1/4	1,102.18	1/4	714.59	1/4
1/2	2,646.57	1/2	2,258.45	1/2	1,870.33	1/2	1,482.21	1/2	1,094.10	1/2	706.53	1/2
3/4	2,638.48	3/4	2,250.37	3/4	1,862.25	3/4	1,474.13	3/4	1,086.01	3/4	698.47	3/4
1	2,630.40	1	2,242.28	1	1,854.16	1	1,466.04	1	1,077.92	1	690.41	1
1 1/4	2,622.31	1 1/4	2,234.19	1 1/4	1,846.08	1 1/4	1,457.96	1 1/4	1,069.84	1 1/4	682.34	1 1/4
1 1/2	2,614.23	1 1/2	2,226.11	1 1/2	1,837.99	1 1/2	1,449.87	1 1/2	1,061.75	1 1/2	674.28	1 1/2
1 3/4	2,606.14	1 3/4	2,218.02	1 3/4	1,829.90	1 3/4	1,441.79	1 3/4	1,053.67	1 3/4	666.22	1 3/4
2	2,598.05	2	2,209.94	2	1,821.82	2	1,433.70	2	1,045.58	2	658.16	2
2 1/4	2,589.97	2 1/4	2,201.85	2 1/4	1,813.73	2 1/4	1,425.61	2 1/4	1,037.50	2 1/4	650.10	2 1/4
2 1/2	2,581.88	2 1/2	2,193.76	2 1/2	1,805.65	2 1/2	1,417.53	2 1/2	1,029.41	2 1/2	642.03	2 1/2
2 3/4	2,573.80	2 3/4	2,185.68	2 3/4	1,797.56	2 3/4	1,409.44	2 3/4	1,021.32	2 3/4	633.96	2 3/4
3	2,565.71	3	2,177.59	3	1,789.47	3	1,401.36	3	1,013.24	3	625.89	3
3 1/4	2,557.63	3 1/4	2,169.51	3 1/4	1,781.39	3 1/4	1,393.27	3 1/4	1,005.15	3 1/4	617.83	3 1/4
3 1/2	2,549.54	3 1/2	2,161.42	3 1/2	1,773.30	3 1/2	1,385.18	3 1/2	997.07	3 1/2	609.75	3 1/2
3 3/4	2,541.45	3 3/4	2,153.34	3 3/4	1,765.22	3 3/4	1,377.10	3 3/4	988.98	3 3/4	601.68	3 3/4
4	2,533.37	4	2,145.25	4	1,757.13	4	1,369.01	4	980.89	4	593.60	4
4 1/4	2,525.28	4 1/4	2,137.16	4 1/4	1,749.05	4 1/4	1,360.93	4 1/4	972.81	4 1/4	585.52	4 1/4
4 1/2	2,517.20	4 1/2	2,129.08	4 1/2	1,740.96	4 1/2	1,352.84	4 1/2	964.72	4 1/2	577.45	4 1/2
4 3/4	2,509.11	4 3/4	2,120.99	4 3/4	1,732.87	4 3/4	1,344.76	4 3/4	956.64	4 3/4	569.37	4 3/4
5	2,501.03	5	2,112.91	5	1,724.79	5	1,336.67	5	948.55	5	561.29	5
5 1/4	2,492.94	5 1/4	2,104.82	5 1/4	1,716.70	5 1/4	1,328.58	5 1/4	940.47	5 1/4	553.22	5 1/4
5 1/2	2,484.85	5 1/2	2,096.74	5 1/2	1,708.62	5 1/2	1,320.50	5 1/2	932.38	5 1/2	545.14	5 1/2
5 3/4	2,476.77	5 3/4	2,088.65	5 3/4	1,700.53	5 3/4	1,312.41	5 3/4	924.29	5 3/4	537.06	5 3/4
6	2,468.68	6	2,080.56	6	1,692.45	6	1,304.33	6	916.21	6	528.98	6
6 1/4	2,460.60	6 1/4	2,072.48	6 1/4	1,684.36	6 1/4	1,296.24	6 1/4	908.12	6 1/4	520.91	6 1/4
6 1/2	2,452.51	6 1/2	2,064.39	6 1/2	1,676.27	6 1/2	1,288.16	6 1/2	900.04	6 1/2	512.83	6 1/2
6 3/4	2,444.42	6 3/4	2,056.31	6 3/4	1,668.19	6 3/4	1,280.07	6 3/4	891.97	6 3/4	504.75	6 3/4
7	2,436.34	7	2,048.22	7	1,660.10	7	1,271.98	7	883.90	7	496.68	7
7 1/4	2,428.25	7 1/4	2,040.13	7 1/4	1,652.02	7 1/4	1,263.90	7 1/4	875.82	7 1/4	488.60	7 1/4
7 1/2	2,420.17	7 1/2	2,032.05	7 1/2	1,643.93	7 1/2	1,255.81	7 1/2	867.75	7 1/2	480.52	7 1/2
7 3/4	2,412.08	7 3/4	2,023.96	7 3/4	1,635.84	7 3/4	1,247.73	7 3/4	859.69	7 3/4	472.44	7 3/4
8	2,404.00	8	2,015.88	8	1,627.76	8	1,239.64	8	851.63	8	464.37	8
8 1/4	2,395.91	8 1/4	2,007.79	8 1/4	1,619.67	8 1/4	1,231.55	8 1/4	843.57	8 1/4	456.29	8 1/4
8 1/2	2,387.82	8 1/2	1,999.71	8 1/2	1,611.59	8 1/2	1,223.47	8 1/2	835.51	8 1/2	448.21	8 1/2
8 3/4	2,379.74	8 3/4	1,991.62	8 3/4	1,603.50	8 3/4	1,215.38	8 3/4	827.45	8 3/4	440.14	8 3/4
9	2,371.65	9	1,983.53	9	1,595.42	9	1,207.30	9	819.39	9	432.06	9
9 1/4	2,363.57	9 1/4	1,975.45	9 1/4	1,587.33	9 1/4	1,199.21	9 1/4	811.33	9 1/4	423.98	9 1/4
9 1/2	2,355.48	9 1/2	1,967.36	9 1/2	1,579.24	9 1/2	1,191.13	9 1/2	803.26	9 1/2	415.90	9 1/2
9 3/4	2,347.39	9 3/4	1,959.28	9 3/4	1,571.16	9 3/4	1,183.04	9 3/4	795.20	9 3/4	407.83	9 3/4
10	2,339.31	10	1,951.19	10	1,563.07	10	1,174.95	10	787.14	10	399.75	10
10 1/4	2,331.22	10 1/4	1,943.10	10 1/4	1,554.99	10 1/4	1,166.87	10 1/4	779.08	10 1/4	391.67	10 1/4
10 1/2	2,323.14	10 1/2	1,935.02	10 1/2	1,546.90	10 1/2	1,158.78	10 1/2	771.02	10 1/2	383.60	10 1/2
10 3/4	2,315.05	10 3/4	1,926.93	10 3/4	1,538.81	10 3/4	1,150.70	10 3/4	762.96	10 3/4	375.52	10 3/4
11	2,306.97	11	1,918.85	11	1,530.73	11	1,142.61	11	754.90	11	367.44	11
11 1/4	2,298.88	11 1/4	1,910.76	11 1/4	1,522.64	11 1/4	1,134.52	11 1/4	746.84	11 1/4	359.36	11 1/4
11 1/2	2,290.79	11 1/2	1,902.68	11 1/2	1,514.56	11 1/2	1,126.44	11 1/2	738.77	11 1/2	351.29	11 1/2
11 3/4	2,282.71	11 3/4	1,894.59	11 3/4	1,506.47	11 3/4	1,118.35	11 3/4	730.71	11 3/4	343.21	11 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED 03/14/2005 CL - SW
CALCULATED 03/15/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2032
Pearland, Texas 77588
http://www.pmacorp.net



BARGE "KIRBY 28038"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS				GAUGE HEIGHT 16'-10.318"			
IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2	2	2	2	2	2	2
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	3	3	3	3	3	3	3
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	4	4	4	4	4	4	4
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	5	5	5	5	5	5	5
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	6	6	6	6	6	6	6
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	7	7	7	7	7	7	7
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	8	8	8	8	8	8	8
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	9	9	9	9	9	9	9
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	10	10	10	10	10	10	10
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	11	11	11	11	11	11	11
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4
12	12	12	12	12	12	12	12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-04" FORWARD OF AFT BULKHEAD

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

The Johnson



BARGE "KIRBY 28038"

2 STBD ULLAGE TABLE

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

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,650.22	0	2,261.90	0	1,873.58	0	1,485.26	0	1,096.94	0	717.95	0	336.02	0	0	0	0	0	0
1/4	2,642.13	1/4	2,253.81	1/4	1,865.49	1/4	1,477.17	1/4	1,088.85	1/4	710.19	1/4	327.93	1/4	0	1/4	1/4	1/4	1/4
1/2	2,634.04	1/2	2,245.72	1/2	1,857.40	1/2	1,469.08	1/2	1,080.76	1/2	702.44	1/2	319.84	1/2	0	1/2	1/2	1/2	1/2
3/4	2,625.95	3/4	2,237.63	3/4	1,849.31	3/4	1,460.99	3/4	1,072.67	3/4	694.88	3/4	311.75	3/4	0	3/4	3/4	3/4	3/4
1	2,617.86	1	2,229.54	1	1,841.22	1	1,452.90	1	1,064.58	1	686.93	1	303.66	1	0	1	1	1	1
1 1/4	2,609.77	1 1/4	2,221.45	1 1/4	1,833.13	1 1/4	1,444.81	1 1/4	1,056.49	1 1/4	679.17	1 1/4	295.57	1 1/4	0	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,601.68	1 1/2	2,213.36	1 1/2	1,825.04	1 1/2	1,436.72	1 1/2	1,048.40	1 1/2	671.42	1 1/2	287.48	1 1/2	0	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	2,593.59	1 3/4	2,205.27	1 3/4	1,816.95	1 3/4	1,428.63	1 3/4	1,040.31	1 3/4	663.67	1 3/4	279.39	1 3/4	0	1 3/4	1 3/4	1 3/4	1 3/4
2	2,585.50	2	2,197.18	2	1,808.86	2	1,420.54	2	1,032.22	2	655.91	2	271.30	2	0	2	2	2	2
2 1/4	2,577.41	2 1/4	2,189.09	2 1/4	1,800.77	2 1/4	1,412.45	2 1/4	1,024.13	2 1/4	648.16	2 1/4	263.21	2 1/4	0	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2,569.32	2 1/2	2,181.00	2 1/2	1,792.68	2 1/2	1,404.36	2 1/2	1,016.04	2 1/2	640.40	2 1/2	255.12	2 1/2	0	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2,561.23	2 3/4	2,172.91	2 3/4	1,784.59	2 3/4	1,396.27	2 3/4	1,007.95	2 3/4	632.64	2 3/4	247.04	2 3/4	0	2 3/4	2 3/4	2 3/4	2 3/4
3	2,553.14	3	2,164.82	3	1,776.50	3	1,388.18	3	999.86	3	624.87	3	238.95	3	0	3	3	3	3
3 1/4	2,545.05	3 1/4	2,156.73	3 1/4	1,768.41	3 1/4	1,380.09	3 1/4	991.77	3 1/4	617.11	3 1/4	230.86	3 1/4	0	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	2,536.96	3 1/2	2,148.64	3 1/2	1,760.32	3 1/2	1,372.00	3 1/2	983.68	3 1/2	609.34	3 1/2	222.77	3 1/2	0	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	2,528.87	3 3/4	2,140.55	3 3/4	1,752.23	3 3/4	1,363.91	3 3/4	975.59	3 3/4	601.56	3 3/4	214.68	3 3/4	0	3 3/4	3 3/4	3 3/4	3 3/4
4	2,520.78	4	2,132.46	4	1,744.14	4	1,355.82	4	967.50	4	593.78	4	206.59	4	0	4	4	4	4
4 1/4	2,512.69	4 1/4	2,124.37	4 1/4	1,736.05	4 1/4	1,347.73	4 1/4	959.41	4 1/4	586.00	4 1/4	198.50	4 1/4	0	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	2,504.60	4 1/2	2,116.28	4 1/2	1,727.96	4 1/2	1,339.64	4 1/2	951.40	4 1/2	578.15	4 1/2	190.41	4 1/2	0	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	2,496.51	4 3/4	2,108.19	4 3/4	1,719.87	4 3/4	1,331.55	4 3/4	943.46	4 3/4	570.21	4 3/4	182.32	4 3/4	0	4 3/4	4 3/4	4 3/4	4 3/4
5	2,488.42	5	2,100.10	5	1,711.78	5	1,323.46	5	935.52	5	562.28	5	174.23	5	0	5	5	5	5
5 1/4	2,480.33	5 1/4	2,092.01	5 1/4	1,703.69	5 1/4	1,315.37	5 1/4	927.59	5 1/4	554.34	5 1/4	166.14	5 1/4	0	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	2,472.24	5 1/2	2,083.92	5 1/2	1,695.60	5 1/2	1,307.28	5 1/2	919.73	5 1/2	546.33	5 1/2	158.06	5 1/2	0	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	2,464.15	5 3/4	2,075.83	5 3/4	1,687.51	5 3/4	1,299.19	5 3/4	911.95	5 3/4	538.24	5 3/4	149.97	5 3/4	0	5 3/4	5 3/4	5 3/4	5 3/4
6	2,456.06	6	2,067.74	6	1,679.42	6	1,291.10	6	904.17	6	530.15	6	141.88	6	0	6	6	6	6
6 1/4	2,447.97	6 1/4	2,059.65	6 1/4	1,671.33	6 1/4	1,283.01	6 1/4	896.38	6 1/4	522.06	6 1/4	133.79	6 1/4	0	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	2,439.88	6 1/2	2,051.56	6 1/2	1,663.24	6 1/2	1,274.92	6 1/2	888.61	6 1/2	513.98	6 1/2	125.70	6 1/2	0	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	2,431.79	6 3/4	2,043.47	6 3/4	1,655.15	6 3/4	1,266.83	6 3/4	880.85	6 3/4	505.89	6 3/4	117.61	6 3/4	0	6 3/4	6 3/4	6 3/4	6 3/4
7	2,423.70	7	2,035.38	7	1,647.06	7	1,258.74	7	873.08	7	497.80	7	109.52	7	0	7	7	7	7
7 1/4	2,415.61	7 1/4	2,027.29	7 1/4	1,638.97	7 1/4	1,250.65	7 1/4	865.31	7 1/4	489.71	7 1/4	101.43	7 1/4	0	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	2,407.52	7 1/2	2,019.20	7 1/2	1,630.88	7 1/2	1,242.56	7 1/2	857.55	7 1/2	481.62	7 1/2	93.34	7 1/2	0	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	2,399.43	7 3/4	2,011.11	7 3/4	1,622.79	7 3/4	1,234.47	7 3/4	849.80	7 3/4	473.53	7 3/4	85.25	7 3/4	0	7 3/4	7 3/4	7 3/4	7 3/4
8	2,391.34	8	2,003.02	8	1,614.70	8	1,226.38	8	842.04	8	465.44	8	77.16	8	0	8	8	8	8
8 1/4	2,383.25	8 1/4	1,994.93	8 1/4	1,606.61	8 1/4	1,218.29	8 1/4	834.28	8 1/4	457.35	8 1/4	69.07	8 1/4	0	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	2,375.16	8 1/2	1,986.84	8 1/2	1,598.52	8 1/2	1,210.20	8 1/2	826.53	8 1/2	449.26	8 1/2	61.49	8 1/2	0	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	2,367.07	8 3/4	1,978.75	8 3/4	1,590.43	8 3/4	1,202.11	8 3/4	818.77	8 3/4	441.17	8 3/4	54.41	8 3/4	0	8 3/4	8 3/4	8 3/4	8 3/4
9	2,358.98	9	1,970.66	9	1,582.34	9	1,194.02	9	811.02	9	433.08	9	47.33	9	0	9	9	9	9
9 1/4	2,350.89	9 1/4	1,962.57	9 1/4	1,574.25	9 1/4	1,185.93	9 1/4	803.26	9 1/4	425.00	9 1/4	40.25	9 1/4	0	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	2,342.80	9 1/2	1,954.48	9 1/2	1,566.16	9 1/2	1,177.84	9 1/2	795.50	9 1/2	416.91	9 1/2	34.19	9 1/2	0	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	2,334.71	9 3/4	1,946.39	9 3/4	1,558.07	9 3/4	1,169.75	9 3/4	787.75	9 3/4	408.82	9 3/4	29.13	9 3/4	0	9 3/4	9 3/4	9 3/4	9 3/4
10	2,326.62	10	1,938.30	10	1,549.98	10	1,161.66	10	779.99	10	400.73	10	24.07	10	0	10	10	10	10
10 1/4	2,318.53	10 1/4	1,930.21	10 1/4	1,541.89	10 1/4	1,153.57	10 1/4	772.24	10 1/4	392.64	10 1/4	19.02	10 1/4	0	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	2,310.44	10 1/2	1,922.12	10 1/2	1,533.80	10 1/2	1,145.48	10 1/2	764.48	10 1/2	384.55	10 1/2	16.49	10 1/2	0	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	2,302.35	10 3/4	1,914.03	10 3/4	1,525.71	10 3/4	1,137.39	10 3/4	756.73	10 3/4	376.46	10 3/4	0	10 3/4	0	10 3/4	10 3/4	10 3/4	10 3/4
11	2,294.26	11	1,905.94	11	1,517.62	11	1,129.30	11	748.97	11	368.37	11	0	11	0	11	11	11	11
11 1/4	2,286.17	11 1/4	1,897.85	11 1/4	1,509.53	11 1/4	1,121.21	11 1/4	741.21	11 1/4	360.28	11 1/4	0	11 1/4	0	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	2,278.08	11 1/2	1,889.76	11 1/2	1,501.44	11 1/2	1,113.12	11 1/2	733.46	11 1/2	352.19	11 1/2	0	11 1/2	0	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	2,269.99	11 3/4	1,881.67	11 3/4	1,493.35	11 3/4	1,105.03	11 3/4	725.70	11 3/4	344.10	11 3/4	0	11 3/4	0	11 3/4	11 3/4	11 3/4	11 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 03/14/2005 CL - SW
CALCULATED: 03/15/2005 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2032
Pearland, Texas 77588
http://www.pmaacorp.net



BARGE "KIRBY 28038"

3 PORT ULLAGE TABLE

GAUGE HEIGHT 16'-10 3/8"

CAPACITY IN WHOLE BARRIS OF 47 U.S. GALLONS		0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.			
0	0	4,626.04	0	4,359.76	0	4,096.74	0	3,820.47	0	3,532.17	0	3,203.54	0	2,842.17
1/4	1/4	4,621.44	1/4	4,354.42	1/4	4,091.10	1/4	3,814.59	1/4	3,526.05	1/4	3,196.01	1/4	2,834.64
1/2	1/2	4,616.07	1/2	4,349.07	1/2	4,085.46	1/2	3,808.70	1/2	3,519.92	1/2	3,188.49	1/2	2,827.12
3/4	3/4	4,609.93	3/4	4,343.70	3/4	4,079.82	3/4	3,802.81	3/4	3,513.78	3/4	3,180.96	3/4	2,819.59
1	1	4,603.79	1	4,338.33	1	4,074.17	1	3,796.91	1	3,507.64	1	3,173.43	1	2,812.06
1 1/4	1 1/4	4,597.65	1 1/4	4,332.97	1 1/4	4,068.52	1 1/4	3,791.01	1 1/4	3,501.51	1 1/4	3,165.90	1 1/4	2,804.53
1 1/2	1 1/2	4,591.52	1 1/2	4,327.60	1 1/2	4,062.86	1 1/2	3,785.10	1 1/2	3,495.37	1 1/2	3,158.37	1 1/2	2,797.00
1 3/4	1 3/4	4,585.38	1 3/4	4,322.21	1 3/4	4,057.19	1 3/4	3,779.18	1 3/4	3,489.24	1 3/4	3,150.84	1 3/4	2,789.47
2	2	4,579.24	2	4,316.83	2	4,051.52	2	3,773.26	2	3,483.10	2	3,143.31	2	2,781.94
2 1/4	2 1/4	4,573.10	2 1/4	4,311.45	2 1/4	4,045.86	2 1/4	3,767.33	2 1/4	3,476.96	2 1/4	3,135.79	2 1/4	2,774.41
2 1/2	2 1/2	4,566.97	2 1/2	4,306.06	2 1/2	4,040.18	2 1/2	3,761.40	2 1/2	3,470.83	2 1/2	3,128.26	2 1/2	2,766.88
2 3/4	2 3/4	4,560.83	2 3/4	4,300.66	2 3/4	4,034.48	2 3/4	3,755.46	2 3/4	3,464.69	2 3/4	3,120.73	2 3/4	2,759.35
3	3	4,554.69	3	4,295.25	3	4,028.79	3	3,749.52	3	3,458.55	3	3,113.20	3	2,751.82
3 1/4	3 1/4	4,548.55	3 1/4	4,289.85	3 1/4	4,023.10	3 1/4	3,743.58	3 1/4	3,452.42	3 1/4	3,105.67	3 1/4	2,744.29
3 1/2	3 1/2	4,542.42	3 1/2	4,284.44	3 1/2	4,017.40	3 1/2	3,737.63	3 1/2	3,446.21	3 1/2	3,098.14	3 1/2	2,736.76
3 3/4	3 3/4	4,536.28	3 3/4	4,279.01	3 3/4	4,011.68	3 3/4	3,731.67	3 3/4	3,439.94	3 3/4	3,089.61	3 3/4	2,729.23
4	4	4,530.14	4	4,273.59	4	4,005.97	4	3,725.72	4	3,433.66	4	3,083.08	4	2,721.70
4 1/4	4 1/4	4,524.00	4 1/4	4,268.16	4 1/4	4,000.26	4 1/4	3,719.76	4 1/4	3,427.39	4 1/4	3,075.56	4 1/4	2,714.17
4 1/2	4 1/2	4,518.32	4 1/2	4,262.72	4 1/2	3,994.54	4 1/2	3,713.78	4 1/2	3,420.97	4 1/2	3,068.03	4 1/2	2,706.64
4 3/4	4 3/4	4,513.08	4 3/4	4,257.28	4 3/4	3,988.81	4 3/4	3,707.80	4 3/4	3,414.42	4 3/4	3,060.50	4 3/4	2,699.11
5	5	4,507.85	5	4,251.83	5	3,983.08	5	3,701.82	5	3,407.86	5	3,052.97	5	2,691.58
5 1/4	5 1/4	4,502.61	5 1/4	4,246.39	5 1/4	3,977.35	5 1/4	3,695.83	5 1/4	3,401.31	5 1/4	3,045.44	5 1/4	2,684.05
5 1/2	5 1/2	4,497.37	5 1/2	4,240.94	5 1/2	3,971.61	5 1/2	3,689.84	5 1/2	3,394.62	5 1/2	3,037.91	5 1/2	2,676.52
5 3/4	5 3/4	4,492.11	5 3/4	4,235.47	5 3/4	3,965.86	5 3/4	3,683.84	5 3/4	3,387.78	5 3/4	3,030.38	5 3/4	2,668.99
6	6	4,486.86	6	4,230.01	6	3,960.10	6	3,677.84	6	3,380.95	6	3,022.86	6	2,661.46
6 1/4	6 1/4	4,481.61	6 1/4	4,224.55	6 1/4	3,954.35	6 1/4	3,671.83	6 1/4	3,374.12	6 1/4	3,015.33	6 1/4	2,653.93
6 1/2	6 1/2	4,476.34	6 1/2	4,219.07	6 1/2	3,948.58	6 1/2	3,665.82	6 1/2	3,367.15	6 1/2	3,007.80	6 1/2	2,646.40
6 3/4	6 3/4	4,471.07	6 3/4	4,213.58	6 3/4	3,942.81	6 3/4	3,659.79	6 3/4	3,360.04	6 3/4	3,000.27	6 3/4	2,638.87
7	7	4,465.80	7	4,208.09	7	3,937.04	7	3,653.76	7	3,352.93	7	2,992.74	7	2,631.34
7 1/4	7 1/4	4,460.52	7 1/4	4,202.61	7 1/4	3,931.27	7 1/4	3,647.73	7 1/4	3,345.81	7 1/4	2,985.21	7 1/4	2,623.81
7 1/2	7 1/2	4,455.24	7 1/2	4,197.11	7 1/2	3,925.48	7 1/2	3,641.69	7 1/2	3,338.57	7 1/2	2,977.68	7 1/2	2,616.28
7 3/4	7 3/4	4,449.94	7 3/4	4,191.60	7 3/4	3,919.69	7 3/4	3,635.65	7 3/4	3,331.18	7 3/4	2,970.16	7 3/4	2,608.75
8	8	4,444.65	8	4,186.10	8	3,913.90	8	3,629.60	8	3,323.79	8	2,962.63	8	2,601.22
8 1/4	8 1/4	4,439.35	8 1/4	4,180.59	8 1/4	3,908.11	8 1/4	3,623.56	8 1/4	3,316.40	8 1/4	2,955.10	8 1/4	2,593.69
8 1/2	8 1/2	4,434.06	8 1/2	4,175.06	8 1/2	3,902.30	8 1/2	3,617.51	8 1/2	3,308.94	8 1/2	2,947.57	8 1/2	2,586.16
8 3/4	8 3/4	4,428.78	8 3/4	4,169.49	8 3/4	3,896.49	8 3/4	3,611.44	8 3/4	3,301.41	8 3/4	2,940.04	8 3/4	2,578.63
9	9	4,423.50	9	4,163.93	9	3,890.67	9	3,605.38	9	3,293.89	9	2,932.51	9	2,571.10
9 1/4	9 1/4	4,418.23	9 1/4	4,158.37	9 1/4	3,884.86	9 1/4	3,599.31	9 1/4	3,286.36	9 1/4	2,924.98	9 1/4	2,563.57
9 1/2	9 1/2	4,412.94	9 1/2	4,152.79	9 1/2	3,879.03	9 1/2	3,593.23	9 1/2	3,279.83	9 1/2	2,917.46	9 1/2	2,556.04
9 3/4	9 3/4	4,407.64	9 3/4	4,147.20	9 3/4	3,873.19	9 3/4	3,587.14	9 3/4	3,271.30	9 3/4	2,909.93	9 3/4	2,548.51
10	10	4,402.34	10	4,141.62	10	3,867.36	10	3,581.05	10	3,263.77	10	2,902.40	10	2,540.98
10 1/4	10 1/4	4,397.04	10 1/4	4,136.03	10 1/4	3,861.52	10 1/4	3,574.96	10 1/4	3,256.24	10 1/4	2,894.87	10 1/4	2,533.45
10 1/2	10 1/2	4,391.73	10 1/2	4,130.44	10 1/2	3,855.68	10 1/2	3,568.87	10 1/2	3,248.71	10 1/2	2,887.34	10 1/2	2,525.92
10 3/4	10 3/4	4,386.41	10 3/4	4,124.83	10 3/4	3,849.82	10 3/4	3,562.76	10 3/4	3,241.19	10 3/4	2,879.81	10 3/4	2,518.39
11	11	4,381.09	11	4,119.22	11	3,843.95	11	3,556.65	11	3,233.66	11	2,872.28	11	2,510.86
11 1/4	11 1/4	4,375.77	11 1/4	4,113.62	11 1/4	3,838.09	11 1/4	3,550.54	11 1/4	3,226.13	11 1/4	2,864.76	11 1/4	2,503.33
11 1/2	11 1/2	4,370.44	11 1/2	4,108.00	11 1/2	3,832.22	11 1/2	3,544.43	11 1/2	3,218.60	11 1/2	2,857.23	11 1/2	2,495.80
11 3/4	11 3/4	4,365.10	11 3/4	4,102.37	11 3/4	3,826.35	11 3/4	3,538.30	11 3/4	3,211.07	11 3/4	2,849.70	11 3/4	2,488.27

CERTIFIED CHART FOR THE ABOVE NAME 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 40'-07" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
P O Box 2032
Pearland, Texas 77588
http://www.pmacorp.net

Tom Johnson



BARGE "KIRBY 28038"

3 STBD ULLAGE TABLE

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

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4	12 1/4
12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4	12 3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13

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 40'-02" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

PRECISION MEASUREMENT & ANALYSIS, INC.

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Pearland, Texas 77588
<http://www.pmaacorp.net>



BARGE "KIRBY 28038"

3 STBD ULLAGE TABLE

GAUGE HEIGHT 16'-10"

Table with 16 columns (10 FT. to 19 FT.) and multiple rows of data. Includes sub-headers 'CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS' and 'CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY'.

STRAPPED 03/14/2005 CL - SW
CALCULATED 03/15/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Signature