



BARGE "KIRBY 28161"

ULLAGE TRIM TABLE

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

(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"

February 3, 2011

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

<http://www.pmacorp.net>



BARGE "KIRBY 28161"

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	4,839.18	0	4,513.56	0	4,180.30	0	3,823.35	0	3,456.82	0	3,090.28	0	2,723.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,833.54	1/4	4,506.86	1/4	4,173.08	1/4	3,815.72	1/4	3,449.18	1/4	3,082.64	1/4	2,716.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,827.90	1/2	4,500.17	1/2	4,165.86	1/2	3,808.08	1/2	3,441.54	1/2	3,075.01	1/2	2,708.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,821.06	3/4	4,493.44	3/4	4,158.60	3/4	3,800.44	3/4	3,433.91	3/4	3,067.37	3/4	2,700.83
1		1		1		1	4,814.23	1	4,486.72	1	4,151.34	1	3,792.81	1	3,426.27	1	3,059.73	1	2,693.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,807.39	1/4	4,479.99	1/4	4,144.09	1/4	3,785.17	1/4	3,418.63	1/4	3,052.10	1/4	2,685.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.56	1/2	4,473.27	1/2	4,136.83	1/2	3,777.54	1/2	3,411.00	1/2	3,044.46	1/2	2,677.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.09	3/4	4,466.51	3/4	4,129.54	3/4	3,769.90	3/4	3,403.36	3/4	3,036.82	3/4	2,670.29
2		2		2		2	4,785.62	2	4,459.74	2	4,122.24	2	3,762.26	2	3,395.73	2	3,029.19	2	2,662.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.14	1/4	4,452.98	1/4	4,114.95	1/4	3,754.63	1/4	3,388.09	1/4	3,021.55	1/4	2,655.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.67	1/2	4,446.22	1/2	4,107.65	1/2	3,746.99	1/2	3,380.45	1/2	3,013.92	1/2	2,647.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.12	3/4	4,439.42	3/4	4,100.32	3/4	3,739.35	3/4	3,372.82	3/4	3,006.28	3/4	2,639.74
3		3		3		3	4,755.57	3	4,432.63	3	4,092.99	3	3,731.72	3	3,365.18	3	2,998.64	3	2,632.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,748.02	1/4	4,425.83	1/4	4,085.66	1/4	3,724.08	1/4	3,357.54	1/4	2,991.01	1/4	2,624.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,740.47	1/2	4,419.03	1/2	4,078.33	1/2	3,716.45	1/2	3,349.91	1/2	2,983.37	1/2	2,616.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,733.19	3/4	4,412.19	3/4	4,070.97	3/4	3,708.81	3/4	3,342.27	3/4	2,975.73	3/4	2,609.20
4		4		4		4	4,725.92	4	4,405.36	4	4,063.61	4	3,701.17	4	3,334.64	4	2,968.10	4	2,601.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,718.65	1/4	4,398.52	1/4	4,056.25	1/4	3,693.54	1/4	3,327.00	1/4	2,960.46	1/4	2,593.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,711.38	1/2	4,391.69	1/2	4,048.88	1/2	3,685.90	1/2	3,319.36	1/2	2,952.83	1/2	2,586.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,704.65	3/4	4,384.81	3/4	4,041.49	3/4	3,678.27	3/4	3,311.73	3/4	2,945.19	3/4	2,578.65
5		5		5		5	4,697.93	5	4,377.94	5	4,034.09	5	3,670.63	5	3,304.09	5	2,937.55	5	2,571.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,691.21	1/4	4,371.07	1/4	4,026.69	1/4	3,662.99	1/4	3,296.46	1/4	2,929.92	1/4	2,563.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,684.49	1/2	4,364.19	1/2	4,019.29	1/2	3,655.36	1/2	3,288.82	1/2	2,922.28	1/2	2,555.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.02	3/4	4,357.28	3/4	4,011.86	3/4	3,647.72	3/4	3,281.18	3/4	2,914.65	3/4	2,548.11
6		6		6		6	4,671.55	6	4,350.37	6	4,004.42	6	3,640.08	6	3,273.55	6	2,907.01	6	2,540.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.08	1/4	4,343.46	1/4	3,996.99	1/4	3,632.45	1/4	3,265.91	1/4	2,899.37	1/4	2,532.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.60	1/2	4,336.55	1/2	3,989.55	1/2	3,624.81	1/2	3,258.27	1/2	2,891.74	1/2	2,525.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.10	3/4	4,329.58	3/4	3,982.08	3/4	3,617.18	3/4	3,250.64	3/4	2,884.10	3/4	2,517.56
7		7		7		7	4,645.59	7	4,322.61	7	3,974.61	7	3,609.54	7	3,243.00	7	2,876.46	7	2,509.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.08	1/4	4,315.64	1/4	3,967.13	1/4	3,601.90	1/4	3,235.37	1/4	2,868.83	1/4	2,502.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.57	1/2	4,308.67	1/2	3,959.66	1/2	3,594.27	1/2	3,227.73	1/2	2,861.19	1/2	2,494.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,626.03	3/4	4,301.62	3/4	3,952.15	3/4	3,586.63	3/4	3,220.09	3/4	2,853.56	3/4	2,487.02
8		8		8		8	4,619.48	8	4,294.58	8	3,944.64	8	3,578.99	8	3,212.46	8	2,845.92	8	2,479.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,612.93	1/4	4,287.53	1/4	3,937.13	1/4	3,571.36	1/4	3,204.82	1/4	2,838.28	1/4	2,471.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,606.39	1/2	4,280.48	1/2	3,929.62	1/2	3,563.72	1/2	3,197.18	1/2	2,830.65	1/2	2,464.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,599.81	3/4	4,273.37	3/4	3,922.08	3/4	3,556.09	3/4	3,189.55	3/4	2,823.01	3/4	2,456.47
9		9		9		9	4,593.22	9	4,266.26	9	3,914.53	9	3,548.45	9	3,181.91	9	2,815.37	9	2,448.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.64	1/4	4,259.16	1/4	3,906.98	1/4	3,540.81	1/4	3,174.28	1/4	2,807.74	1/4	2,441.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,580.06	1/2	4,252.05	1/2	3,899.43	1/2	3,533.18	1/2	3,166.64	1/2	2,800.10	1/2	2,433.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.44	3/4	4,244.90	3/4	3,891.85	3/4	3,525.54	3/4	3,159.00	3/4	2,792.47	3/4	2,425.93
10		10		10		10	4,566.82	10	4,237.76	10	3,884.26	10	3,517.90	10	3,151.37	10	2,784.83	10	2,418.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.19	1/4	4,230.61	1/4	3,876.68	1/4	3,510.27	1/4	3,143.73	1/4	2,777.19	1/4	2,410.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,553.57	1/2	4,223.47	1/2	3,869.09	1/2	3,502.63	1/2	3,136.09	1/2	2,769.56	1/2	2,403.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,546.92	3/4	4,216.29	3/4	3,861.48	3/4	3,495.00	3/4	3,128.46	3/4	2,761.92	3/4	2,395.38
11		11		11		11	4,540.26	11	4,209.10	11	3,853.86	11	3,487.36	11	3,120.82	11	2,754.28	11	2,387.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,533.60	1/4	4,201.92	1/4	3,846.24	1/4	3,479.72	1/4	3,113.19	1/4	2,746.65	1/4	2,380.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,526.94	1/2	4,194.74	1/2	3,838.63	1/2	3,472.09	1/2	3,105.55	1/2	2,739.01	1/2	2,372.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,520.25	3/4	4,187.52	3/4	3,830.99	3/4	3,464.45	3/4	3,097.91	3/4	2,731.38	3/4	2,364.84

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28161"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	2,357.20	0	1,990.67	0	1,624.11	0	1,258.21	0	893.83	0	527.59	0	181.63	0		0			
1/4	2,349.57	1/4	1,983.03	1/4	1,616.48	1/4	1,250.58	1/4	886.25	1/4	519.95	1/4	174.93	1/4		1/4			
1/2	2,341.93	1/2	1,975.40	1/2	1,608.84	1/2	1,242.94	1/2	878.67	1/2	512.32	1/2	168.23	1/2		1/2			
3/4	2,334.29	3/4	1,967.76	3/4	1,601.20	3/4	1,235.30	3/4	871.07	3/4	504.70	3/4	161.61	3/4		3/4			
1	2,326.66	1	1,960.12	1	1,593.57	1	1,227.66	1	863.47	1	497.08	1	155.00	1		1			
1/4	2,319.02	1/4	1,952.49	1/4	1,585.93	1/4	1,220.03	1/4	855.88	1/4	489.47	1/4	148.38	1/4		1/4			
1/2	2,311.39	1/2	1,944.85	1/2	1,578.29	1/2	1,212.39	1/2	848.28	1/2	481.85	1/2	141.76	1/2		1/2			
3/4	2,303.75	3/4	1,937.21	3/4	1,570.66	3/4	1,204.77	3/4	840.66	3/4	474.30	3/4	135.24	3/4		3/4			
2	2,296.11	2	1,929.58	2	1,563.02	2	1,197.14	2	833.04	2	466.75	2	128.72	2		2			
1/4	2,288.48	1/4	1,921.94	1/4	1,555.38	1/4	1,189.52	1/4	825.42	1/4	459.19	1/4	122.19	1/4		1/4			
1/2	2,280.84	1/2	1,914.30	1/2	1,547.75	1/2	1,181.90	1/2	817.79	1/2	451.64	1/2	115.67	1/2		1/2			
3/4	2,273.20	3/4	1,906.67	3/4	1,540.11	3/4	1,174.30	3/4	810.16	3/4	444.17	3/4	109.24	3/4		3/4			
3	2,265.57	3	1,899.03	3	1,532.47	3	1,166.71	3	802.52	3	436.71	3	102.82	3		3			
1/4	2,257.93	1/4	1,891.40	1/4	1,524.84	1/4	1,159.11	1/4	794.88	1/4	429.24	1/4	96.39	1/4		1/4			
1/2	2,250.30	1/2	1,883.76	1/2	1,517.20	1/2	1,151.52	1/2	787.25	1/2	421.77	1/2	89.96	1/2		1/2			
3/4	2,242.66	3/4	1,876.12	3/4	1,509.57	3/4	1,143.94	3/4	779.61	3/4	414.39	3/4	83.64	3/4		3/4			
4	2,235.02	4	1,868.49	4	1,501.93	4	1,136.36	4	771.97	4	407.01	4	77.32	4		4			
1/4	2,227.39	1/4	1,860.85	1/4	1,494.29	1/4	1,128.78	1/4	764.34	1/4	399.62	1/4	71.00	1/4		1/4			
1/2	2,219.75	1/2	1,853.21	1/2	1,486.66	1/2	1,121.19	1/2	756.70	1/2	392.24	1/2	64.67	1/2		1/2			
3/4	2,212.11	3/4	1,845.58	3/4	1,479.03	3/4	1,113.62	3/4	749.06	3/4	384.94	3/4	58.47	3/4		3/4			
5	2,204.48	5	1,837.94	5	1,471.41	5	1,106.04	5	741.43	5	377.65	5	52.27	5		5			
1/4	2,196.84	1/4	1,830.30	1/4	1,463.79	1/4	1,098.46	1/4	733.79	1/4	370.35	1/4	46.06	1/4		1/4			
1/2	2,189.21	1/2	1,822.67	1/2	1,456.16	1/2	1,090.88	1/2	726.15	1/2	363.05	1/2	39.86	1/2		1/2			
3/4	2,181.57	3/4	1,815.03	3/4	1,448.56	3/4	1,083.30	3/4	718.52	3/4	355.84	3/4	34.35	3/4		3/4			
6	2,173.93	6	1,807.39	6	1,440.95	6	1,075.72	6	710.88	6	348.63	6	28.85	6		6			
1/4	2,166.30	1/4	1,799.76	1/4	1,433.34	1/4	1,068.14	1/4	703.24	1/4	341.41	1/4	23.34	1/4		1/4			
1/2	2,158.66	1/2	1,792.12	1/2	1,425.73	1/2	1,060.56	1/2	695.61	1/2	334.20	1/2	17.83	1/2		1/2			
3/4	2,151.03	3/4	1,784.48	3/4	1,418.12	3/4	1,052.99	3/4	687.97	3/4	327.07	3/4	14.27	3/4		3/4			
7	2,143.39	7	1,776.85	7	1,410.51	7	1,045.41	7	680.33	7	319.94	7	10.71	7		7			
1/4	2,135.75	1/4	1,769.21	1/4	1,402.90	1/4	1,037.83	1/4	672.70	1/4	312.82	1/4	7.15	1/4		1/4			
1/2	2,128.12	1/2	1,761.57	1/2	1,395.29	1/2	1,030.25	1/2	665.06	1/2	305.69	1/2	3.59	1/2		1/2			
3/4	2,120.48	3/4	1,753.94	3/4	1,387.68	3/4	1,022.67	3/4	657.42	3/4	298.65	3/4		3/4		3/4			
8	2,112.84	8	1,746.30	8	1,380.07	8	1,015.09	8	649.79	8	291.60	8		8		8			
1/4	2,105.21	1/4	1,738.66	1/4	1,372.47	1/4	1,007.51	1/4	642.15	1/4	284.56	1/4		1/4		1/4			
1/2	2,097.57	1/2	1,731.03	1/2	1,364.86	1/2	999.93	1/2	634.51	1/2	277.52	1/2		1/2		1/2			
3/4	2,089.94	3/4	1,723.39	3/4	1,357.25	3/4	992.36	3/4	626.87	3/4	270.56	3/4		3/4		3/4			
9	2,082.30	9	1,715.75	9	1,349.64	9	984.78	9	619.24	9	263.60	9		9		9			
1/4	2,074.66	1/4	1,708.12	1/4	1,342.03	1/4	977.20	1/4	611.60	1/4	256.64	1/4		1/4		1/4			
1/2	2,067.03	1/2	1,700.48	1/2	1,334.42	1/2	969.62	1/2	603.96	1/2	249.69	1/2		1/2		1/2			
3/4	2,059.39	3/4	1,692.84	3/4	1,326.81	3/4	962.04	3/4	596.33	3/4	242.81	3/4		3/4		3/4			
10	2,051.75	10	1,685.21	10	1,319.20	10	954.46	10	588.69	10	235.94	10		10		10			
1/4	2,044.12	1/4	1,677.57	1/4	1,311.59	1/4	946.88	1/4	581.05	1/4	229.07	1/4		1/4		1/4			
1/2	2,036.48	1/2	1,669.93	1/2	1,303.98	1/2	939.30	1/2	573.41	1/2	222.19	1/2		1/2		1/2			
3/4	2,028.85	3/4	1,662.30	3/4	1,296.36	3/4	931.72	3/4	565.78	3/4	215.40	3/4		3/4		3/4			
11	2,021.21	11	1,654.66	11	1,288.73	11	924.15	11	558.14	11	208.62	11		11		11			
1/4	2,013.57	1/4	1,647.02	1/4	1,281.11	1/4	916.57	1/4	550.50	1/4	201.83	1/4		1/4		1/4			
1/2	2,005.94	1/2	1,639.39	1/2	1,273.49	1/2	908.99	1/2	542.86	1/2	195.04	1/2		1/2		1/2			
3/4	1,998.30	3/4	1,631.75	3/4	1,265.85	3/4	901.41	3/4	535.23	3/4	188.34	3/4		3/4		3/4			

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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 28161"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

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	0	0	0	0	4,540.03	0	4,209.00	0	3,853.89	0	3,487.51	0	3,121.11	0	2,754.70	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,533.38	1/4	4,201.82	1/4	3,846.27	1/4	3,479.88	1/4	3,113.47	1/4	2,747.06	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,526.72	1/2	4,194.64	1/2	3,838.66	1/2	3,472.25	1/2	3,105.84	1/2	2,739.43	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,520.03	3/4	4,187.42	3/4	3,831.02	3/4	3,464.61	3/4	3,098.21	3/4	2,731.80	
1	1	1	1	1	1	1	1	4,513.34	1	4,180.21	1	3,823.39	1	3,456.98	1	3,090.57	1	2,724.16	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,506.65	1/4	4,172.99	1/4	3,815.76	1/4	3,449.35	1/4	3,082.94	1/4	2,716.53	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,827.57	1/2	4,499.96	1/2	4,165.77	1/2	3,808.12	1/2	3,441.71	1/2	3,075.30	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,820.73	3/4	4,493.24	3/4	4,158.52	3/4	3,800.49	3/4	3,434.08	3/4	3,067.67	
2	2	2	2	2	2	2	2	4,813.90	2	4,486.51	2	4,151.26	2	3,792.85	2	3,426.45	2	3,060.04	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,807.07	1/4	4,479.79	1/4	4,144.01	1/4	3,785.22	1/4	3,418.81	1/4	3,052.40	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.24	1/2	4,473.07	1/2	4,136.75	1/2	3,777.59	1/2	3,411.18	1/2	3,044.77	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,792.77	3/4	4,466.31	3/4	4,129.46	3/4	3,769.95	3/4	3,403.55	3/4	3,037.14	
3	3	3	3	3	3	3	3	4,785.30	3	4,459.55	3	4,122.17	3	3,762.32	3	3,395.91	3	3,029.50	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,777.83	1/4	4,452.79	1/4	4,114.88	1/4	3,754.69	1/4	3,388.28	1/4	3,021.87	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.36	1/2	4,446.03	1/2	4,107.59	1/2	3,747.05	1/2	3,380.64	1/2	3,014.24	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,762.81	3/4	4,439.24	3/4	4,100.26	3/4	3,739.42	3/4	3,373.01	3/4	3,006.60	
4	4	4	4	4	4	4	4	4,755.26	4	4,432.44	4	4,092.93	4	3,731.79	4	3,365.38	4	2,998.97	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,747.72	1/4	4,425.65	1/4	4,085.60	1/4	3,724.15	1/4	3,357.74	1/4	2,991.34	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,740.17	1/2	4,418.85	1/2	4,078.28	1/2	3,716.52	1/2	3,350.11	1/2	2,983.70	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,732.90	3/4	4,412.02	3/4	4,070.92	3/4	3,708.89	3/4	3,342.48	3/4	2,976.07	
5	5	5	5	5	5	5	5	4,725.63	5	4,405.18	5	4,063.56	5	3,701.25	5	3,334.84	5	2,968.44	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,718.36	1/4	4,398.35	1/4	4,056.20	1/4	3,693.62	1/4	3,327.21	1/4	2,960.80	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,711.09	1/2	4,391.52	1/2	4,048.84	1/2	3,685.98	1/2	3,319.58	1/2	2,953.17	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,704.37	3/4	4,384.65	3/4	4,041.44	3/4	3,678.35	3/4	3,311.94	3/4	2,945.54	
6	6	6	6	6	6	6	6	4,697.65	6	4,377.78	6	4,034.05	6	3,670.72	6	3,304.31	6	2,937.90	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.93	1/4	4,370.91	1/4	4,026.65	1/4	3,663.08	1/4	3,296.68	1/4	2,930.27	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,684.21	1/2	4,364.03	1/2	4,019.26	1/2	3,655.45	1/2	3,289.04	1/2	2,922.63	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,677.74	3/4	4,357.13	3/4	4,011.83	3/4	3,647.82	3/4	3,281.41	3/4	2,915.00	
7	7	7	7	7	7	7	7	4,671.27	7	4,350.22	7	4,004.39	7	3,640.18	7	3,273.78	7	2,907.37	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.80	1/4	4,343.31	1/4	3,996.96	1/4	3,632.55	1/4	3,266.14	1/4	2,899.73	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.34	1/2	4,336.40	1/2	3,989.53	1/2	3,624.92	1/2	3,258.51	1/2	2,892.10	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,651.83	3/4	4,329.44	3/4	3,982.06	3/4	3,617.28	3/4	3,250.88	3/4	2,884.47	
8	8	8	8	8	8	8	8	4,645.32	8	4,322.47	8	3,974.59	8	3,609.65	8	3,243.24	8	2,876.83	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,638.82	1/4	4,315.50	1/4	3,967.12	1/4	3,602.02	1/4	3,235.61	1/4	2,869.20	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.31	1/2	4,308.54	1/2	3,959.65	1/2	3,594.38	1/2	3,227.97	1/2	2,861.57	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,625.77	3/4	4,301.49	3/4	3,952.14	3/4	3,586.75	3/4	3,220.34	3/4	2,853.93	
9	9	9	9	9	9	9	9	4,619.23	9	4,294.44	9	3,944.63	9	3,579.12	9	3,212.71	9	2,846.30	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,612.68	1/4	4,287.40	1/4	3,937.13	1/4	3,571.48	1/4	3,205.07	1/4	2,838.67	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,606.14	1/2	4,280.35	1/2	3,929.62	1/2	3,563.85	1/2	3,197.44	1/2	2,831.03	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,599.56	3/4	4,273.24	3/4	3,922.08	3/4	3,556.22	3/4	3,189.81	3/4	2,823.40	
10	10	10	10	10	10	10	10	4,592.98	10	4,266.14	10	3,914.53	10	3,548.58	10	3,182.17	10	2,815.77	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.40	1/4	4,259.04	1/4	3,906.99	1/4	3,540.95	1/4	3,174.54	1/4	2,808.13	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,579.82	1/2	4,251.93	1/2	3,899.44	1/2	3,533.31	1/2	3,166.91	1/2	2,800.50	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.20	3/4	4,244.79	3/4	3,891.86	3/4	3,525.68	3/4	3,159.27	3/4	2,792.87	
11	11	11	11	11	11	11	11	4,566.58	11	4,237.65	11	3,884.28	11	3,518.05	11	3,151.64	11	2,785.23	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,559.96	1/4	4,230.50	1/4	3,876.70	1/4	3,510.41	1/4	3,144.01	1/4	2,777.60	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,553.35	1/2	4,223.36	1/2	3,869.11	1/2	3,502.78	1/2	3,136.37	1/2	2,769.96	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,546.69	3/4	4,216.18	3/4	3,861.50	3/4	3,495.15	3/4	3,128.74	3/4	2,762.33	

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'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 28161"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

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	2,388.29	0	2,021.88	0	1,655.46	0	1,289.67	0	924.16	0	557.93	0	208.54	0		0			
1/4	2,380.66	1/4	2,014.25	1/4	1,647.83	1/4	1,282.05	1/4	916.55	1/4	550.30	1/4	201.75	1/4		1/4			
1/2	2,373.02	1/2	2,006.61	1/2	1,640.19	1/2	1,274.42	1/2	908.95	1/2	542.66	1/2	194.96	1/2		1/2			
3/4	2,365.39	3/4	1,998.98	3/4	1,632.56	3/4	1,266.79	3/4	901.34	3/4	535.03	3/4	188.26	3/4		3/4			
1	2,357.76	1	1,991.35	1	1,624.93	1	1,259.16	1	893.74	1	527.40	1	181.56	1		1			
1 1/4	2,350.12	1 1/4	1,983.72	1 1/4	1,617.29	1 1/4	1,251.52	1 1/4	886.13	1 1/4	519.76	1 1/4	174.86	1 1/4		1 1/4			
1 1/2	2,342.49	1 1/2	1,976.09	1 1/2	1,609.66	1 1/2	1,243.89	1 1/2	878.52	1 1/2	512.13	1 1/2	168.16	1 1/2		1 1/2			
3/4	2,334.86	3/4	1,968.45	3/4	1,602.03	3/4	1,236.25	3/4	870.90	3/4	504.51	3/4	161.55	3/4		3/4			
2	2,327.22	2	1,960.82	2	1,594.39	2	1,228.62	2	863.28	2	496.90	2	154.94	2		2			
2 1/4	2,319.59	2 1/4	1,953.18	2 1/4	1,586.76	2 1/4	1,220.98	2 1/4	855.66	2 1/4	489.29	2 1/4	148.32	2 1/4		2 1/4			
1 1/2	2,311.95	1 1/2	1,945.55	1 1/2	1,579.12	1 1/2	1,213.35	1 1/2	848.04	1 1/2	481.67	1 1/2	141.71	1 1/2		1 1/2			
3/4	2,304.32	3/4	1,937.92	3/4	1,571.49	3/4	1,205.71	3/4	840.40	3/4	474.12	3/4	135.19	3/4		3/4			
3	2,296.69	3	1,930.28	3	1,563.86	3	1,198.08	3	832.77	3	466.57	3	128.67	3		3			
3 1/4	2,289.05	3 1/4	1,922.65	3 1/4	1,556.22	3 1/4	1,190.45	3 1/4	825.13	3 1/4	459.02	3 1/4	122.15	3 1/4		3 1/4			
1 1/2	2,281.42	1 1/2	1,915.02	1 1/2	1,548.59	1 1/2	1,182.81	1 1/2	817.50	1 1/2	451.47	1 1/2	115.62	1 1/2		1 1/2			
3/4	2,273.79	3/4	1,907.38	3/4	1,540.95	3/4	1,175.19	3/4	809.87	3/4	444.01	3/4	109.20	3/4		3/4			
4	2,266.15	4	1,899.75	4	1,533.32	4	1,167.57	4	802.23	4	436.54	4	102.78	4		4			
1 1/4	2,258.52	1 1/4	1,892.11	1 1/4	1,525.69	1 1/4	1,159.95	1 1/4	794.60	1 1/4	429.08	1 1/4	96.35	1 1/4		1 1/4			
1 1/2	2,250.89	1 1/2	1,884.48	1 1/2	1,518.05	1 1/2	1,152.32	1 1/2	786.96	1 1/2	421.62	1 1/2	89.93	1 1/2		1 1/2			
3/4	2,243.25	3/4	1,876.85	3/4	1,510.42	3/4	1,144.72	3/4	779.33	3/4	414.24	3/4	83.61	3/4		3/4			
5	2,235.62	5	1,869.21	5	1,502.78	5	1,137.11	5	771.69	5	406.86	5	77.29	5		5			
1 1/4	2,227.99	1 1/4	1,861.58	1 1/4	1,495.15	1 1/4	1,129.50	1 1/4	764.06	1 1/4	399.48	1 1/4	70.97	1 1/4		1 1/4			
1 1/2	2,220.36	1 1/2	1,853.94	1 1/2	1,487.52	1 1/2	1,121.90	1 1/2	756.43	1 1/2	392.10	1 1/2	64.65	1 1/2		1 1/2			
3/4	2,212.72	3/4	1,846.31	3/4	1,479.90	3/4	1,114.29	3/4	748.79	3/4	384.80	3/4	58.45	3/4		3/4			
6	2,205.09	6	1,838.68	6	1,472.28	6	1,106.68	6	741.16	6	377.51	6	52.25	6		6			
1 1/4	2,197.45	1 1/4	1,831.04	1 1/4	1,464.66	1 1/4	1,099.08	1 1/4	733.52	1 1/4	370.21	1 1/4	46.05	1 1/4		1 1/4			
1 1/2	2,189.82	1 1/2	1,823.41	1 1/2	1,457.04	1 1/2	1,091.47	1 1/2	725.89	1 1/2	362.92	1 1/2	39.84	1 1/2		1 1/2			
3/4	2,182.19	3/4	1,815.77	3/4	1,449.43	3/4	1,083.87	3/4	718.26	3/4	355.71	3/4	34.34	3/4		3/4			
7	2,174.55	7	1,808.14	7	1,441.82	7	1,076.26	7	710.62	7	348.50	7	28.83	7		7			
1 1/4	2,166.92	1 1/4	1,800.51	1 1/4	1,434.22	1 1/4	1,068.66	1 1/4	702.99	1 1/4	341.29	1 1/4	23.33	1 1/4		1 1/4			
1 1/2	2,159.28	1 1/2	1,792.87	1 1/2	1,426.61	1 1/2	1,061.05	1 1/2	695.35	1 1/2	334.07	1 1/2	17.83	1 1/2		1 1/2			
3/4	2,151.65	3/4	1,785.24	3/4	1,419.01	3/4	1,053.45	3/4	687.72	3/4	326.95	3/4	14.27	3/4		3/4			
8	2,144.02	8	1,777.61	8	1,411.40	8	1,045.84	8	680.08	8	319.82	8	10.71	8		8			
1 1/4	2,136.38	1 1/4	1,769.97	1 1/4	1,403.79	1 1/4	1,038.24	1 1/4	672.45	1 1/4	312.70	1 1/4	7.15	1 1/4		1 1/4			
1 1/2	2,128.75	1 1/2	1,762.34	1 1/2	1,396.19	1 1/2	1,030.63	1 1/2	664.82	1 1/2	305.57	1 1/2	3.59	1 1/2		1 1/2			
3/4	2,121.12	3/4	1,754.70	3/4	1,388.58	3/4	1,023.03	3/4	657.18	3/4	298.53	3/4		3/4		3/4			
9	2,113.48	9	1,747.07	9	1,380.97	9	1,015.42	9	649.55	9	291.49	9		9		9			
1 1/4	2,105.85	1 1/4	1,739.44	1 1/4	1,373.37	1 1/4	1,007.82	1 1/4	641.91	1 1/4	284.45	1 1/4		1 1/4		1 1/4			
1 1/2	2,098.22	1 1/2	1,731.80	1 1/2	1,365.76	1 1/2	1,000.21	1 1/2	634.28	1 1/2	277.41	1 1/2		1 1/2		1 1/2			
3/4	2,090.58	3/4	1,724.17	3/4	1,358.15	3/4	992.61	3/4	626.64	3/4	270.46	3/4		3/4		3/4			
10	2,082.95	10	1,716.53	10	1,350.55	10	985.00	10	619.01	10	263.50	10		10		10			
1 1/4	2,075.32	1 1/4	1,708.90	1 1/4	1,342.94	1 1/4	977.40	1 1/4	611.38	1 1/4	256.55	1 1/4		1 1/4		1 1/4			
1 1/2	2,067.68	1 1/2	1,701.27	1 1/2	1,335.33	1 1/2	969.79	1 1/2	603.74	1 1/2	249.59	1 1/2		1 1/2		1 1/2			
3/4	2,060.05	3/4	1,693.63	3/4	1,327.73	3/4	962.19	3/4	596.11	3/4	242.72	3/4		3/4		3/4			
11	2,052.42	11	1,686.00	11	1,320.12	11	954.58	11	588.47	11	235.85	11		11		11			
1 1/4	2,044.78	1 1/4	1,678.36	1 1/4	1,312.51	1 1/4	946.98	1 1/4	580.84	1 1/4	228.98	1 1/4		1 1/4		1 1/4			
1 1/2	2,037.15	1 1/2	1,670.73	1 1/2	1,304.91	1 1/2	939.37	1 1/2	573.20	1 1/2	222.11	1 1/2		1 1/2		1 1/2			
3/4	2,029.52	3/4	1,663.10	3/4	1,297.29	3/4	931.77	3/4	565.57	3/4	215.32	3/4		3/4		3/4			

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28161"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.						
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN			IN			
0			0			0			0	4,840.54	0	4,515.35	0	4,183.62	0	3,828.61	0	3,464.90	0	3,101.18	0	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/																				



BARGE "KIRBY 28161"

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	1,547.81	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	

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28161"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-08 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	4,562.02	0	4,233.05	0	3,880.28	0	3,516.78	0	3,153.24	0	2,789.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,555.41	1/4	4,225.93	1/4	3,872.73	1/4	3,509.21	1/4	3,145.66	1/4	2,782.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,548.78	1/2	4,218.77	1/2	3,865.16	1/2	3,501.63	1/2	3,138.09	1/2	2,774.55		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,542.14	3/4	4,211.61	3/4	3,857.59	3/4	3,494.06	3/4	3,130.52	3/4	2,766.97		
1		1		1		1		1	4,535.50	1	4,204.45	1	3,850.02	1	3,486.49	1	3,122.94	1	2,759.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,853.90	1/4	4,528.86	1/4	4,197.29	1/4	3,842.45	1/4	3,478.91	1/4	3,115.37	1/4	2,751.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.12	1/2	4,522.19	1/2	4,190.09	1/2	3,834.88	1/2	3,471.34	1/2	3,107.80	1/2	2,744.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,840.34	3/4	4,515.52	3/4	4,182.89	3/4	3,827.31	3/4	3,463.76	3/4	3,100.22	3/4	2,736.68
2		2		2		2		2	4,833.56	2	4,508.85	2	4,175.69	2	3,819.73	2	3,456.19	2	3,092.65	2	2,729.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,826.79	1/4	4,502.18	1/4	4,168.49	1/4	3,812.16	1/4	3,448.62	1/4	3,085.07	1/4	2,721.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,819.37	1/2	4,495.47	1/2	4,161.26	1/2	3,804.59	1/2	3,441.04	1/2	3,077.50	1/2	2,713.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,811.96	3/4	4,488.77	3/4	4,154.02	3/4	3,797.01	3/4	3,433.47	3/4	3,069.93	3/4	2,706.38
3		3		3		3		3	4,804.55	3	4,482.06	3	4,146.79	3	3,789.44	3	3,425.90	3	3,062.35	3	2,698.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,797.14	1/4	4,475.36	1/4	4,139.55	1/4	3,781.86	1/4	3,418.32	1/4	3,054.78	1/4	2,691.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,789.65	1/2	4,468.61	1/2	4,132.28	1/2	3,774.29	1/2	3,410.75	1/2	3,047.21	1/2	2,683.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,782.16	3/4	4,461.87	3/4	4,125.01	3/4	3,766.72	3/4	3,403.17	3/4	3,039.63	3/4	2,676.09
4		4		4		4		4	4,774.67	4	4,455.13	4	4,117.74	4	3,759.14	4	3,395.60	4	3,032.06	4	2,668.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,767.18	1/4	4,448.39	1/4	4,110.48	1/4	3,751.57	1/4	3,388.03	1/4	3,024.48	1/4	2,660.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,759.97	1/2	4,441.61	1/2	4,103.17	1/2	3,744.00	1/2	3,380.45	1/2	3,016.91	1/2	2,653.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,752.76	3/4	4,434.83	3/4	4,095.87	3/4	3,736.42	3/4	3,372.88	3/4	3,009.34	3/4	2,645.79
5		5		5		5		5	4,745.55	5	4,428.05	5	4,088.57	5	3,728.85	5	3,365.31	5	3,001.76	5	2,638.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,738.34	1/4	4,421.27	1/4	4,081.27	1/4	3,721.27	1/4	3,357.73	1/4	2,994.19	1/4	2,630.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.67	1/2	4,414.45	1/2	4,073.93	1/2	3,713.70	1/2	3,350.16	1/2	2,986.62	1/2	2,623.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,725.00	3/4	4,407.63	3/4	4,066.59	3/4	3,706.13	3/4	3,342.58	3/4	2,979.04	3/4	2,615.50
6		6		6		6		6	4,718.33	6	4,400.82	6	4,059.25	6	3,698.55	6	3,335.01	6	2,971.47	6	2,607.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,711.67	1/4	4,394.00	1/4	4,051.92	1/4	3,690.98	1/4	3,327.44	1/4	2,963.89	1/4	2,600.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,705.25	1/2	4,387.15	1/2	4,044.54	1/2	3,683.40	1/2	3,319.86	1/2	2,956.32	1/2	2,592.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,698.83	3/4	4,380.29	3/4	4,037.17	3/4	3,675.83	3/4	3,312.29	3/4	2,948.75	3/4	2,585.20
7		7		7		7		7	4,692.41	7	4,373.44	7	4,029.79	7	3,668.26	7	3,304.71	7	2,941.17	7	2,577.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,686.00	1/4	4,366.58	1/4	4,022.42	1/4	3,660.68	1/4	3,297.14	1/4	2,933.60	1/4	2,570.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,679.54	1/2	4,359.67	1/2	4,015.01	1/2	3,653.11	1/2	3,289.57	1/2	2,926.02	1/2	2,562.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.09	3/4	4,352.76	3/4	4,007.60	3/4	3,645.54	3/4	3,281.99	3/4	2,918.45	3/4	2,554.91
8		8		8		8		8	4,666.63	8	4,345.85	8	4,000.18	8	3,637.96	8	3,274.42	8	2,910.88	8	2,547.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.18	1/4	4,338.94	1/4	3,992.77	1/4	3,630.39	1/4	3,266.85	1/4	2,903.30	1/4	2,539.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,653.68	1/2	4,331.94	1/2	3,985.32	1/2	3,622.81	1/2	3,259.27	1/2	2,895.73	1/2	2,532.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.19	3/4	4,324.95	3/4	3,977.88	3/4	3,615.24	3/4	3,251.70	3/4	2,888.16	3/4	2,524.61
9		9		9		9		9	4,640.70	9	4,317.96	9	3,970.43	9	3,607.67	9	3,244.12	9	2,880.58	9	2,517.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.21	1/4	4,310.97	1/4	3,962.98	1/4	3,600.09	1/4	3,236.55	1/4	2,873.01	1/4	2,509.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,627.68	1/2	4,303.92	1/2	3,955.49	1/2	3,592.52	1/2	3,228.98	1/2	2,865.43	1/2	2,501.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.15	3/4	4,296.87	3/4	3,948.01	3/4	3,584.95	3/4	3,221.40	3/4	2,857.86	3/4	2,494.32
10		10		10		10		10	4,614.62	10	4,289.82	10	3,940.52	10	3,577.37	10	3,213.83	10	2,850.29	10	2,486.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.09	1/4	4,282.77	1/4	3,933.04	1/4	3,569.80	1/4	3,206.26	1/4	2,842.71	1/4	2,479.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,601.53	1/2	4,275.69	1/2	3,925.51	1/2	3,562.22	1/2	3,198.68	1/2	2,835.14	1/2	2,471.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,594.96	3/4	4,268.60	3/4	3,917.99	3/4	3,554.65	3/4	3,191.11	3/4	2,827.57	3/4	2,464.02
11		11		11		11		11	4,588.39	11	4,261.51	11	3,910.47	11	3,547.08	11	3,183.53	11	2,819.99	11	2,456.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,581.83	1/4	4,254.43	1/4	3,902.95	1/4	3,539.50	1/4	3,175.96	1/4	2,812.42	1/4	2,448.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.22	1/2	4,247.30	1/2	3,895.39	1/2	3,531.93	1/2	3,168.39	1/2	2,804.84	1/2	2,441.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,568.62	3/4	4,240.18	3/4	3,887.84	3/4	3,524.36	3/4	3,160.81	3/4	2,797.27	3/4	2,433.73

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 62'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77568
<http://www.pmacorp.net>



BARGE "KIRBY 28161"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	2,426.15	0	2,062.61	0	1,699.06	0	1,339.39	0	976.75	0	613.37	0	249.78	0		0		0	
1/4	2,418.58	1/4	2,055.04	1/4	1,691.49	1/4	1,331.81	1/4	969.21	1/4	605.79	1/4	242.20	1/4		1/4		1/4	
1/2	2,411.01	1/2	2,047.46	1/2	1,683.91	1/2	1,324.24	1/2	961.66	1/2	598.22	1/2	234.63	1/2		1/2		1/2	
3/4	2,403.43	3/4	2,039.89	3/4	1,676.34	3/4	1,316.67	3/4	954.11	3/4	590.64	3/4	227.06	3/4		3/4		3/4	
1	2,395.86	1	2,032.32	1	1,668.76	1	1,309.09	1	946.57	1	583.07	1	219.48	1		1		1	
1/4	2,388.28	1/4	2,024.74	1/4	1,661.19	1/4	1,301.52	1/4	939.02	1/4	575.50	1/4	211.91	1/4		1/4		1/4	
1/2	2,380.71	1/2	2,017.17	1/2	1,653.62	1/2	1,293.94	1/2	931.46	1/2	567.92	1/2	204.33	1/2		1/2		1/2	
3/4	2,373.14	3/4	2,009.59	3/4	1,646.04	3/4	1,286.37	3/4	923.89	3/4	560.35	3/4	196.76	3/4		3/4		3/4	
2	2,365.56	2	2,002.02	2	1,638.47	2	1,278.79	2	916.33	2	552.77	2	189.19	2		2		2	
1/4	2,357.99	1/4	1,994.45	1/4	1,630.89	1/4	1,271.22	1/4	908.77	1/4	545.20	1/4	181.62	1/4		1/4		1/4	
1/2	2,350.42	1/2	1,986.87	1/2	1,623.32	1/2	1,263.64	1/2	901.20	1/2	537.62	1/2	174.05	1/2		1/2		1/2	
3/4	2,342.84	3/4	1,979.30	3/4	1,615.75	3/4	1,256.07	3/4	893.62	3/4	530.05	3/4	166.49	3/4		3/4		3/4	
3	2,335.27	3	1,971.72	3	1,608.17	3	1,248.49	3	886.05	3	522.47	3	158.92	3		3		3	
1/4	2,327.69	1/4	1,964.15	1/4	1,600.60	1/4	1,240.92	1/4	878.47	1/4	514.90	1/4	151.36	1/4		1/4		1/4	
1/2	2,320.12	1/2	1,956.58	1/2	1,593.02	1/2	1,233.36	1/2	870.90	1/2	507.32	1/2	143.80	1/2		1/2		1/2	
3/4	2,312.55	3/4	1,949.00	3/4	1,585.45	3/4	1,225.79	3/4	863.32	3/4	499.75	3/4	136.25	3/4		3/4		3/4	
4	2,304.97	4	1,941.43	4	1,577.88	4	1,218.23	4	855.75	4	492.17	4	128.70	4		4		4	
1/4	2,297.40	1/4	1,933.85	1/4	1,570.30	1/4	1,210.67	1/4	848.18	1/4	484.60	1/4	121.15	1/4		1/4		1/4	
1/2	2,289.83	1/2	1,926.28	1/2	1,562.81	1/2	1,203.12	1/2	840.60	1/2	477.02	1/2	113.61	1/2		1/2		1/2	
3/4	2,282.25	3/4	1,918.71	3/4	1,555.32	3/4	1,195.58	3/4	833.03	3/4	469.45	3/4	106.08	3/4		3/4		3/4	
5	2,274.68	5	1,911.13	5	1,547.82	5	1,188.03	5	825.45	5	461.87	5	98.55	5		5		5	
1/4	2,267.10	1/4	1,903.56	1/4	1,540.33	1/4	1,180.48	1/4	817.88	1/4	454.30	1/4	91.01	1/4		1/4		1/4	
1/2	2,259.53	1/2	1,895.98	1/2	1,532.92	1/2	1,172.94	1/2	810.30	1/2	446.72	1/2	83.51	1/2		1/2		1/2	
3/4	2,251.96	3/4	1,888.41	3/4	1,525.51	3/4	1,165.39	3/4	802.73	3/4	439.15	3/4	76.01	3/4		3/4		3/4	
6	2,244.38	6	1,880.84	6	1,518.09	6	1,157.85	6	795.16	6	431.57	6	68.51	6		6		6	
1/4	2,236.81	1/4	1,873.26	1/4	1,510.68	1/4	1,150.30	1/4	787.58	1/4	424.00	1/4	61.01	1/4		1/4		1/4	
1/2	2,229.24	1/2	1,865.69	1/2	1,503.27	1/2	1,142.75	1/2	780.01	1/2	416.42	1/2	54.12	1/2		1/2		1/2	
3/4	2,221.66	3/4	1,858.11	3/4	1,495.86	3/4	1,135.21	3/4	772.43	3/4	408.85	3/4	47.23	3/4		3/4		3/4	
7	2,214.09	7	1,850.54	7	1,488.45	7	1,127.66	7	764.86	7	401.27	7	40.33	7		7		7	
1/4	2,206.51	1/4	1,842.97	1/4	1,481.03	1/4	1,120.12	1/4	757.28	1/4	393.70	1/4	33.44	1/4		1/4		1/4	
1/2	2,198.94	1/2	1,835.39	1/2	1,473.62	1/2	1,112.57	1/2	749.71	1/2	386.13	1/2	28.39	1/2		1/2		1/2	
3/4	2,191.37	3/4	1,827.82	3/4	1,466.21	3/4	1,105.03	3/4	742.14	3/4	378.55	3/4	23.34	3/4		3/4		3/4	
8	2,183.79	8	1,820.24	8	1,458.80	8	1,097.48	8	734.56	8	370.98	8	18.30	8		8		8	
1/4	2,176.22	1/4	1,812.67	1/4	1,451.39	1/4	1,089.94	1/4	726.99	1/4	363.40	1/4	13.25	1/4		1/4		1/4	
1/2	2,168.64	1/2	1,805.10	1/2	1,443.97	1/2	1,082.39	1/2	719.41	1/2	355.83	1/2		1/2		1/2		1/2	
3/4	2,161.07	3/4	1,797.52	3/4	1,436.56	3/4	1,074.84	3/4	711.84	3/4	348.25	3/4		3/4		3/4		3/4	
9	2,153.50	9	1,789.95	9	1,429.15	9	1,067.30	9	704.26	9	340.68	9		9		9		9	
1/4	2,145.92	1/4	1,782.37	1/4	1,421.74	1/4	1,059.75	1/4	696.69	1/4	333.10	1/4		1/4		1/4		1/4	
1/2	2,138.35	1/2	1,774.80	1/2	1,414.32	1/2	1,052.21	1/2	689.12	1/2	325.53	1/2		1/2		1/2		1/2	
3/4	2,130.78	3/4	1,767.23	3/4	1,406.91	3/4	1,044.66	3/4	681.54	3/4	317.95	3/4		3/4		3/4		3/4	
10	2,123.20	10	1,759.65	10	1,399.50	10	1,037.12	10	673.97	10	310.38	10		10		10		10	
1/4	2,115.63	1/4	1,752.08	1/4	1,392.09	1/4	1,029.57	1/4	666.39	1/4	302.80	1/4		1/4		1/4		1/4	
1/2	2,108.05	1/2	1,744.50	1/2	1,384.59	1/2	1,022.03	1/2	658.82	1/2	295.23	1/2		1/2		1/2		1/2	
3/4	2,100.48	3/4	1,736.93	3/4	1,377.10	3/4	1,014.48	3/4	651.24	3/4	287.65	3/4		3/4		3/4		3/4	
11	2,092.91	11	1,729.36	11	1,369.61	11	1,006.94	11	643.67	11	280.08	11		11		11		11	
1/4	2,085.33	1/4	1,721.78	1/4	1,362.11	1/4	999.39	1/4	636.09	1/4	272.50	1/4		1/4		1/4		1/4	
1/2	2,077.76	1/2	1,714.21	1/2	1,354.54	1/2	991.84	1/2	628.52	1/2	264.93	1/2		1/2		1/2		1/2	
3/4	2,070.19	3/4	1,706.63	3/4	1,346.96	3/4	984.30	3/4	620.94	3/4	257.35	3/4		3/4		3/4		3/4	

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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 28161"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,451.26	0	4,195.26	0	3,933.50	0	3,658.14	0	3,374.57	0	3,010.55	0	2,646.97
1/4		1/4		1/4		1/4	4,446.22	1/4	4,189.95	1/4	3,927.86	1/4	3,652.30	1/4	3,366.98	1/4	3,002.98	1/4	2,639.40
1/2		1/2		1/2		1/2	4,441.19	1/2	4,184.64	1/2	3,922.23	1/2	3,646.47	1/2	3,359.38	1/2	2,995.40	1/2	2,631.82
3/4		3/4		3/4		3/4	4,436.15	3/4	4,179.33	3/4	3,916.60	3/4	3,640.63	3/4	3,351.79	3/4	2,987.83	3/4	2,624.25
1		1		1		1	4,431.11	1	4,174.02	1	3,910.97	1	3,634.80	1	3,344.19	1	2,980.25	1	2,616.67
1/4		1/4		1/4		1/4	4,425.44	1/4	4,168.69	1/4	3,905.32	1/4	3,628.96	1/4	3,336.60	1/4	2,972.68	1/4	2,609.10
1/2		1/2		1/2		1/2	4,419.77	1/2	4,163.36	1/2	3,899.66	1/2	3,623.13	1/2	3,329.00	1/2	2,965.10	1/2	2,601.52
3/4		3/4		3/4		3/4	4,414.10	3/4	4,158.04	3/4	3,894.01	3/4	3,617.30	3/4	3,321.41	3/4	2,957.53	3/4	2,593.95
2		2		2		2	4,408.43	2	4,152.71	2	3,888.36	2	3,611.46	2	3,313.82	2	2,949.95	2	2,586.37
1/4		1/4		1/4		1/4	4,402.68	1/4	4,147.36	1/4	3,882.69	1/4	3,605.63	1/4	3,306.22	1/4	2,942.38	1/4	2,578.80
1/2		1/2		1/2		1/2	4,396.93	1/2	4,142.01	1/2	3,877.02	1/2	3,599.79	1/2	3,298.63	1/2	2,934.80	1/2	2,571.22
3/4		3/4		3/4		3/4	4,391.18	3/4	4,136.66	3/4	3,871.35	3/4	3,593.96	3/4	3,291.03	3/4	2,927.23	3/4	2,563.65
3		3		3		3	4,385.43	3	4,131.31	3	3,865.68	3	3,588.13	3	3,283.44	3	2,919.66	3	2,556.07
1/4		1/4		1/4		1/4	4,379.83	1/4	4,125.95	1/4	3,859.99	1/4	3,582.29	1/4	3,275.84	1/4	2,912.08	1/4	2,548.50
1/2		1/2		1/2		1/2	4,374.23	1/2	4,120.58	1/2	3,854.30	1/2	3,576.46	1/2	3,268.25	1/2	2,904.51	1/2	2,540.93
3/4		3/4		3/4		3/4	4,368.63	3/4	4,115.21	3/4	3,848.61	3/4	3,570.62	3/4	3,260.65	3/4	2,896.93	3/4	2,533.35
4		4		4		4	4,363.02	4	4,109.84	4	3,842.92	4	3,564.79	4	3,253.06	4	2,889.36	4	2,525.78
1/4		1/4		1/4		1/4	4,357.72	1/4	4,104.45	1/4	3,837.22	1/4	3,558.95	1/4	3,245.46	1/4	2,881.78	1/4	2,518.20
1/2		1/2		1/2		1/2	4,352.41	1/2	4,099.06	1/2	3,831.51	1/2	3,553.12	1/2	3,237.87	1/2	2,874.21	1/2	2,510.63
3/4		3/4		3/4		3/4	4,347.10	3/4	4,093.68	3/4	3,825.80	3/4	3,547.29	3/4	3,230.28	3/4	2,866.63	3/4	2,503.05
5		5		5		5	4,341.79	5	4,088.29	5	3,820.09	5	3,541.45	5	3,222.68	5	2,859.06	5	2,495.48
1/4		1/4		1/4		1/4	4,336.62	1/4	4,082.88	1/4	3,814.37	1/4	3,535.62	1/4	3,215.10	1/4	2,851.48	1/4	2,487.90
1/2		1/2		1/2		1/2	4,331.45	1/2	4,077.47	1/2	3,808.64	1/2	3,529.78	1/2	3,207.51	1/2	2,843.91	1/2	2,480.33
3/4		3/4		3/4		3/4	4,326.27	3/4	4,072.06	3/4	3,802.91	3/4	3,523.95	3/4	3,199.93	3/4	2,836.34	3/4	2,472.75
6		6		6		6	4,321.10	6	4,066.66	6	3,797.19	6	3,518.11	6	3,192.34	6	2,828.76	6	2,465.18
1/4		1/4		1/4		1/4	4,315.90	1/4	4,061.21	1/4	3,791.44	1/4	3,512.28	1/4	3,184.77	1/4	2,821.19	1/4	2,457.61
1/2		1/2		1/2		1/2	4,310.71	1/2	4,055.76	1/2	3,785.69	1/2	3,506.45	1/2	3,177.19	1/2	2,813.61	1/2	2,450.03
3/4		3/4		3/4		3/4	4,305.52	3/4	4,050.31	3/4	3,779.95	3/4	3,500.61	3/4	3,169.62	3/4	2,806.04	3/4	2,442.46
7		7		7		7	4,300.32	7	4,044.86	7	3,774.20	7	3,494.78	7	3,162.04	7	2,798.46	7	2,434.88
1/4		1/4		1/4		1/4	4,295.11	1/4	4,039.35	1/4	3,768.43	1/4	3,488.94	1/4	3,154.47	1/4	2,790.89	1/4	2,427.31
1/2		1/2		1/2		1/2	4,289.90	1/2	4,033.84	1/2	3,762.67	1/2	3,483.11	1/2	3,146.89	1/2	2,783.31	1/2	2,419.73
3/4		3/4		3/4		3/4	4,284.68	3/4	4,028.33	3/4	3,756.90	3/4	3,477.28	3/4	3,139.32	3/4	2,775.74	3/4	2,412.16
8		8		8		8	4,279.47	8	4,022.81	8	3,751.13	8	3,471.44	8	3,131.74	8	2,768.16	8	2,404.58
1/4		1/4		1/4		1/4	4,274.24	1/4	4,017.26	1/4	3,745.35	1/4	3,465.61	1/4	3,124.17	1/4	2,760.59	1/4	2,397.01
1/2		1/2		1/2		1/2	4,269.00	1/2	4,011.71	1/2	3,739.56	1/2	3,459.77	1/2	3,116.60	1/2	2,753.01	1/2	2,389.43
3/4		3/4		3/4		3/4	4,263.77	3/4	4,006.16	3/4	3,733.77	3/4	3,453.94	3/4	3,109.02	3/4	2,745.44	3/4	2,381.86
9		9		9		9	4,258.54	9	4,000.60	9	3,727.98	9	3,448.10	9	3,101.45	9	2,737.87	9	2,374.28
1/4		1/4		1/4		1/4	4,253.28	1/4	3,995.03	1/4	3,722.18	1/4	3,442.27	1/4	3,093.87	1/4	2,730.29	1/4	2,366.71
1/2		1/2		1/2		1/2	4,248.03	1/2	3,989.46	1/2	3,716.37	1/2	3,436.44	1/2	3,086.30	1/2	2,722.72	1/2	2,359.14
3/4		3/4		3/4		3/4	4,242.77	3/4	3,983.89	3/4	3,710.56	3/4	3,430.60	3/4	3,078.72	3/4	2,715.14	3/4	2,351.56
10		10		10		10	4,237.52	10	3,978.31	10	3,704.76	10	3,424.77	10	3,071.15	10	2,707.57	10	2,343.99
1/4		1/4		1/4		1/4	4,232.25	1/4	3,972.72	1/4	3,698.93	1/4	3,418.93	1/4	3,063.57	1/4	2,699.99	1/4	2,336.41
1/2		1/2		1/2		1/2	4,226.97	1/2	3,967.13	1/2	3,693.11	1/2	3,413.10	1/2	3,056.00	1/2	2,692.42	1/2	2,328.84
3/4		3/4		3/4		3/4	4,221.70	3/4	3,961.54	3/4	3,687.29	3/4	3,407.27	3/4	3,048.42	3/4	2,684.84	3/4	2,321.26
11		11		11		11	4,216.43	11	3,955.95	11	3,681.46	11	3,401.43	11	3,040.85	11	2,677.27	11	2,313.69
1/4		1/4		1/4		1/4	4,211.14	1/4	3,950.33	1/4	3,675.63	1/4	3,394.72	1/4	3,033.27	1/4	2,669.69	1/4	2,306.11
1/2		1/2		1/2		1/2	4,460.72	1/2	4,205.84	1/2	3,944.72	1/2	3,669.80	1/2	3,025.70	1/2	2,662.12	1/2	2,298.54
3/4		3/4		3/4		3/4	4,455.99	3/4	4,200.55	3/4	3,939.11	3/4	3,663.97	3/4	3,018.13	3/4	2,654.54	3/4	2,290.96

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 62'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "KIRBY 28161"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,283.39	0	1,919.81	0	1,556.36	0	1,197.28	0	843.41	0	486.03	0	122.71	0		0			
1/4	2,275.81	1/4	1,912.23	1/4	1,548.81	1/4	1,189.72	1/4	836.04	1/4	478.44	1/4	116.38	1/4		1/4			
1/2	2,268.24	1/2	1,904.66	1/2	1,541.25	1/2	1,182.16	1/2	828.66	1/2	470.84	1/2	110.05	1/2		1/2			
3/4	2,260.67	3/4	1,897.08	3/4	1,533.70	3/4	1,174.60	3/4	821.29	3/4	463.25	3/4	103.72	3/4		3/4			
1	2,253.09	1	1,889.51	1	1,526.15	1	1,167.04	1	813.92	1	455.65	1	97.40	1		1			
1/4	2,245.52	1/4	1,881.93	1/4	1,518.60	1/4	1,159.58	1/4	806.53	1/4	448.05	1/4	92.34	1/4		1/4			
1/2	2,237.94	1/2	1,874.36	1/2	1,511.05	1/2	1,152.13	1/2	799.15	1/2	440.46	1/2	87.28	1/2		1/2			
3/4	2,230.37	3/4	1,866.78	3/4	1,503.50	3/4	1,144.67	3/4	791.76	3/4	432.86	3/4	82.22	3/4		3/4			
2	2,222.79	2	1,859.21	2	1,495.95	2	1,137.22	2	784.38	2	425.27	2	77.17	2		2			
1/4	2,215.22	1/4	1,851.63	1/4	1,488.40	1/4	1,129.87	1/4	776.99	1/4	417.67	1/4	73.39	1/4		1/4			
1/2	2,207.64	1/2	1,844.06	1/2	1,480.84	1/2	1,122.53	1/2	769.61	1/2	410.08	1/2	69.61	1/2		1/2			
3/4	2,200.07	3/4	1,836.48	3/4	1,473.29	3/4	1,115.18	3/4	762.22	3/4	402.48	3/4	65.83	3/4		3/4			
3	2,192.49	3	1,828.91	3	1,465.74	3	1,107.84	3	754.84	3	394.88	3	62.05	3		3			
1/4	2,184.92	1/4	1,821.33	1/4	1,458.27	1/4	1,100.50	1/4	747.45	1/4	387.29	1/4	59.55	1/4		1/4			
1/2	2,177.34	1/2	1,813.76	1/2	1,450.80	1/2	1,093.16	1/2	740.07	1/2	379.69	1/2	57.05	1/2		1/2			
3/4	2,169.77	3/4	1,806.18	3/4	1,443.33	3/4	1,085.82	3/4	732.68	3/4	372.10	3/4	54.56	3/4		3/4			
4	2,162.20	4	1,798.61	4	1,435.86	4	1,078.48	4	725.30	4	364.50	4	52.06	4		4			
1/4	2,154.62	1/4	1,791.04	1/4	1,428.46	1/4	1,071.14	1/4	717.92	1/4	356.91	1/4	50.86	1/4		1/4			
1/2	2,147.05	1/2	1,783.46	1/2	1,421.06	1/2	1,063.80	1/2	710.53	1/2	349.31	1/2	49.67	1/2		1/2			
3/4	2,139.47	3/4	1,775.89	3/4	1,413.66	3/4	1,056.47	3/4	703.15	3/4	341.72	3/4	48.47	3/4		3/4			
5	2,131.90	5	1,768.31	5	1,406.25	5	1,049.13	5	695.76	5	334.12	5	47.27	5		5			
1/4	2,124.32	1/4	1,760.74	1/4	1,398.84	1/4	1,041.79	1/4	688.38	1/4	326.52	1/4		1/4		1/4			
1/2	2,116.75	1/2	1,753.16	1/2	1,391.43	1/2	1,034.45	1/2	680.99	1/2	318.93	1/2		1/2		1/2			
3/4	2,109.17	3/4	1,745.59	3/4	1,384.01	3/4	1,027.12	3/4	673.61	3/4	311.33	3/4		3/4		3/4			
6	2,101.60	6	1,738.01	6	1,376.60	6	1,019.78	6	666.22	6	303.74	6		6		6			
1/4	2,094.02	1/4	1,730.44	1/4	1,369.19	1/4	1,012.44	1/4	658.84	1/4	296.14	1/4		1/4		1/4			
1/2	2,086.45	1/2	1,722.86	1/2	1,361.77	1/2	1,005.10	1/2	651.45	1/2	288.55	1/2		1/2		1/2			
3/4	2,078.88	3/4	1,715.29	3/4	1,354.36	3/4	997.76	3/4	644.07	3/4	280.95	3/4		3/4		3/4			
7	2,071.30	7	1,707.71	7	1,346.94	7	990.43	7	636.68	7	273.36	7		7		7			
1/4	2,063.73	1/4	1,700.14	1/4	1,339.53	1/4	983.09	1/4	629.30	1/4	265.76	1/4		1/4		1/4			
1/2	2,056.15	1/2	1,692.56	1/2	1,332.12	1/2	975.75	1/2	621.91	1/2	258.16	1/2		1/2		1/2			
3/4	2,048.58	3/4	1,684.99	3/4	1,324.70	3/4	968.41	3/4	614.53	3/4	250.57	3/4		3/4		3/4			
8	2,041.00	8	1,677.41	8	1,317.29	8	961.08	8	607.14	8	242.97	8		8		8			
1/4	2,033.43	1/4	1,669.84	1/4	1,309.88	1/4	953.73	1/4	599.65	1/4	235.38	1/4		1/4		1/4			
1/2	2,025.85	1/2	1,662.26	1/2	1,302.48	1/2	946.38	1/2	592.16	1/2	227.78	1/2		1/2		1/2			
3/4	2,018.28	3/4	1,654.69	3/4	1,295.07	3/4	939.03	3/4	584.67	3/4	220.19	3/4		3/4		3/4			
9	2,010.70	9	1,647.11	9	1,287.66	9	931.69	9	577.18	9	212.59	9		9		9			
1/4	2,003.13	1/4	1,639.54	1/4	1,280.19	1/4	924.33	1/4	569.58	1/4	204.99	1/4		1/4		1/4			
1/2	1,995.55	1/2	1,631.96	1/2	1,272.71	1/2	916.98	1/2	561.99	1/2	197.40	1/2		1/2		1/2			
3/4	1,987.98	3/4	1,624.39	3/4	1,265.23	3/4	909.62	3/4	554.39	3/4	189.80	3/4		3/4		3/4			
10	1,980.41	10	1,616.81	10	1,257.75	10	902.26	10	546.80	10	182.21	10		10		10			
1/4	1,972.83	1/4	1,609.25	1/4	1,250.19	1/4	894.91	1/4	539.20	1/4	174.61	1/4		1/4		1/4			
1/2	1,965.26	1/2	1,601.69	1/2	1,242.63	1/2	887.55	1/2	531.61	1/2	167.02	1/2		1/2		1/2			
3/4	1,957.68	3/4	1,594.13	3/4	1,235.07	3/4	880.20	3/4	524.01	3/4	159.42	3/4		3/4		3/4			
11	1,950.11	11	1,586.56	11	1,227.51	11	872.84	11	516.41	11	151.83	11		11		11			
1/4	1,942.53	1/4	1,579.01	1/4	1,219.95	1/4	865.48	1/4	508.82	1/4	144.55	1/4		1/4		1/4			
1/2	1,934.96	1/2	1,571.46	1/2	1,212.39	1/2	858.12	1/2	501.22	1/2	137.27	1/2		1/2		1/2			
3/4	1,927.38	3/4	1,563.91	3/4	1,204.84	3/4	850.77	3/4	493.63	3/4	129.99	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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



BARGE "KIRBY 28161"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,487.34	0	4,232.24	0	3,970.90	0	3,695.75	0	3,413.72	0	3,050.63	0	2,685.79		
1/4	1/4		1/4		1/4		4,482.60	1/4	4,226.95	1/4	3,965.29	1/4	3,689.92	1/4	3,406.99	1/4	3,043.03	1/4	2,678.19		
1/2	1/2		1/2		1/2		4,477.87	1/2	4,221.65	1/2	3,959.67	1/2	3,684.08	1/2	3,400.27	1/2	3,035.43	1/2	2,670.59		
3/4	3/4		3/4		3/4		4,472.82	3/4	4,216.34	3/4	3,954.03	3/4	3,678.24	3/4	3,392.67	3/4	3,027.83	3/4	2,662.98		
1	1		1		1		4,467.78	1	4,211.02	1	3,948.40	1	3,672.40	1	3,385.07	1	3,020.23	1	2,655.38		
1/4	1/4		1/4		1/4		4,462.74	1/4	4,205.71	1/4	3,942.76	1/4	3,666.56	1/4	3,377.47	1/4	3,012.63	1/4	2,647.78		
1/2	1/2		1/2		1/2		4,457.70	1/2	4,200.39	1/2	3,937.12	1/2	3,660.72	1/2	3,369.87	1/2	3,005.02	1/2	2,640.18		
3/4	3/4		3/4		3/4		4,452.02	3/4	4,195.06	3/4	3,931.47	3/4	3,654.89	3/4	3,362.27	3/4	2,997.42	3/4	2,632.58		
2	2		2		2		4,446.35	2	4,189.73	2	3,925.81	2	3,649.05	2	3,354.67	2	2,989.82	2	2,624.98		
1/4	1/4		1/4		1/4		4,440.67	1/4	4,184.40	1/4	3,920.15	1/4	3,643.21	1/4	3,347.07	1/4	2,982.22	1/4	2,617.38		
1/2	1/2		1/2		1/2		4,434.99	1/2	4,179.06	1/2	3,914.49	1/2	3,637.37	1/2	3,339.46	1/2	2,974.62	1/2	2,609.78		
3/4	3/4		3/4		3/4		4,429.24	3/4	4,173.71	3/4	3,908.82	3/4	3,631.53	3/4	3,331.86	3/4	2,967.02	3/4	2,602.18		
3	3		3		3		4,423.49	3	4,168.36	3	3,903.14	3	3,625.69	3	3,324.26	3	2,959.42	3	2,594.58		
1/4	1/4		1/4		1/4		4,417.73	1/4	4,163.00	1/4	3,897.47	1/4	3,619.85	1/4	3,316.66	1/4	2,951.82	1/4	2,586.98		
1/2	1/2		1/2		1/2		4,411.98	1/2	4,157.65	1/2	3,891.79	1/2	3,614.01	1/2	3,309.06	1/2	2,944.22	1/2	2,579.37		
3/4	3/4		3/4		3/4		4,406.37	3/4	4,152.28	3/4	3,886.10	3/4	3,608.17	3/4	3,301.46	3/4	2,936.62	3/4	2,571.77		
4	4		4		4		4,400.77	4	4,146.91	4	3,880.41	4	3,602.33	4	3,293.86	4	2,929.02	4	2,564.17		
1/4	1/4		1/4		1/4		4,395.16	1/4	4,141.53	1/4	3,874.71	1/4	3,596.49	1/4	3,286.26	1/4	2,921.41	1/4	2,556.57		
1/2	1/2		1/2		1/2		4,389.56	1/2	4,136.16	1/2	3,869.02	1/2	3,590.66	1/2	3,278.66	1/2	2,913.81	1/2	2,548.97		
3/4	3/4		3/4		3/4		4,384.24	3/4	4,130.77	3/4	3,863.31	3/4	3,584.82	3/4	3,271.06	3/4	2,906.21	3/4	2,541.37		
5	5		5		5		4,378.93	5	4,125.38	5	3,857.60	5	3,578.98	5	3,263.46	5	2,898.61	5	2,533.77		
1/4	1/4		1/4		1/4		4,373.62	1/4	4,119.98	1/4	3,851.89	1/4	3,573.14	1/4	3,255.85	1/4	2,891.01	1/4	2,526.17		
1/2	1/2		1/2		1/2		4,368.31	1/2	4,114.59	1/2	3,846.17	1/2	3,567.30	1/2	3,248.25	1/2	2,883.41	1/2	2,518.57		
3/4	3/4		3/4		3/4		4,363.13	3/4	4,109.18	3/4	3,840.44	3/4	3,561.46	3/4	3,240.65	3/4	2,875.81	3/4	2,510.97		
6	6		6		6		4,357.95	6	4,103.77	6	3,834.71	6	3,555.62	6	3,233.05	6	2,868.21	6	2,503.37		
1/4	1/4		1/4		1/4		4,352.77	1/4	4,098.35	1/4	3,828.98	1/4	3,549.78	1/4	3,225.45	1/4	2,860.61	1/4	2,495.76		
1/2	1/2		1/2		1/2		4,347.59	1/2	4,092.94	1/2	3,823.25	1/2	3,543.94	1/2	3,217.85	1/2	2,853.01	1/2	2,488.16		
3/4	3/4		3/4		3/4		4,342.40	3/4	4,087.49	3/4	3,817.49	3/4	3,538.10	3/4	3,210.25	3/4	2,845.41	3/4	2,480.56		
7	7		7		7		4,337.20	7	4,082.03	7	3,811.74	7	3,532.26	7	3,202.65	7	2,837.80	7	2,472.96		
1/4	1/4		1/4		1/4		4,332.00	1/4	4,076.58	1/4	3,805.99	1/4	3,526.43	1/4	3,195.05	1/4	2,830.20	1/4	2,465.36		
1/2	1/2		1/2		1/2		4,326.80	1/2	4,071.13	1/2	3,800.24	1/2	3,520.59	1/2	3,187.45	1/2	2,822.60	1/2	2,457.76		
3/4	3/4		3/4		3/4		4,321.58	3/4	4,065.61	3/4	3,794.47	3/4	3,514.75	3/4	3,179.85	3/4	2,815.00	3/4	2,450.16		
8	8		8		8		4,316.37	8	4,060.09	8	3,788.70	8	3,508.91	8	3,172.24	8	2,807.40	8	2,442.56		
1/4	1/4		1/4		1/4		4,311.15	1/4	4,054.58	1/4	3,782.92	1/4	3,503.07	1/4	3,164.64	1/4	2,799.80	1/4	2,434.96		
1/2	1/2		1/2		1/2		4,305.93	1/2	4,049.06	1/2	3,777.15	1/2	3,497.23	1/2	3,157.04	1/2	2,792.20	1/2	2,427.36		
3/4	3/4		3/4		3/4		4,300.69	3/4	4,043.50	3/4	3,771.36	3/4	3,491.39	3/4	3,149.44	3/4	2,784.60	3/4	2,419.76		
9	9		9		9		4,295.46	9	4,037.95	9	3,765.57	9	3,485.55	9	3,141.84	9	2,777.00	9	2,412.15		
1/4	1/4		1/4		1/4		4,290.22	1/4	4,032.39	1/4	3,759.78	1/4	3,479.71	1/4	3,134.24	1/4	2,769.40	1/4	2,404.55		
1/2	1/2		1/2		1/2		4,284.98	1/2	4,026.83	1/2	3,753.99	1/2	3,473.87	1/2	3,126.64	1/2	2,761.80	1/2	2,396.95		
3/4	3/4		3/4		3/4		4,279.72	3/4	4,021.26	3/4	3,748.18	3/4	3,468.03	3/4	3,119.04	3/4	2,754.19	3/4	2,389.35		
10	10		10		10		4,274.46	10	4,015.68	10	3,742.36	10	3,462.20	10	3,111.44	10	2,746.59	10	2,381.75		
1/4	1/4		1/4		1/4		4,269.21	1/4	4,010.10	1/4	3,736.55	1/4	3,456.36	1/4	3,103.84	1/4	2,738.99	1/4	2,374.15		
1/2	1/2		1/2		1/2		4,263.95	1/2	4,004.52	1/2	3,730.74	1/2	3,450.52	1/2	3,096.24	1/2	2,731.39	1/2	2,366.55		
3/4	3/4		3/4		3/4		4,258.67	3/4	3,998.93	3/4	3,724.91	3/4	3,444.68	3/4	3,088.63	3/4	2,723.79	3/4	2,358.95		
11	11		11		11		4,253.39	11	3,993.33	11	3,719.08	11	3,438.84	11	3,081.03	11	2,716.19	11	2,351.35		
1/4	1/4		1/4		1/4		4,248.11	1/4	3,987.73	1/4	3,713.26	1/4	3,433.00	1/4	3,073.43	1/4	2,708.59	1/4	2,343.75		
1/2	1/2		1/2		1/2		4,496.81	1/2	4,242.84	1/2	3,982.14	1/2	3,707.43	1/2	3,427.16	1/2	3,065.83	1/2	2,700.99	1/2	2,336.15
3/4	3/4		3/4		3/4		4,492.07	3/4	4,237.54	3/4	3,976.52	3/4	3,701.59	3/4	3,420.44	3/4	3,058.23	3/4	2,693.39	3/4	2,328.54

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 28161"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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	2,320.94	0	1,956.10	0	1,591.24	0	1,230.27	0	866.42	0	501.64	0	137.38	0		0			
1/4	2,313.34	1/4	1,948.50	1/4	1,583.64	1/4	1,222.67	1/4	858.84	1/4	494.04	1/4	130.10	1/4		1/4			
1/2	2,305.74	1/2	1,940.89	1/2	1,576.04	1/2	1,215.07	1/2	851.27	1/2	486.44	1/2	122.81	1/2		1/2			
3/4	2,298.14	3/4	1,933.29	3/4	1,568.44	3/4	1,207.46	3/4	843.68	3/4	478.83	3/4	116.48	3/4		3/4			
1	2,290.54	1	1,925.69	1	1,560.84	1	1,199.86	1	836.09	1	471.23	1	110.14	1		1			
1/4	2,282.94	1/4	1,918.09	1/4	1,553.24	1/4	1,192.26	1/4	828.50	1/4	463.63	1/4	103.81	1/4		1/4			
1/2	2,275.34	1/2	1,910.49	1/2	1,545.64	1/2	1,184.66	1/2	820.91	1/2	456.03	1/2	97.48	1/2		1/2			
3/4	2,267.74	3/4	1,902.89	3/4	1,538.04	3/4	1,177.06	3/4	813.31	3/4	448.43	3/4	92.42	3/4		3/4			
2	2,260.14	2	1,895.29	2	1,530.43	2	1,169.46	2	805.71	2	440.82	2	87.35	2		2			
1/4	2,252.54	1/4	1,887.69	1/4	1,522.83	1/4	1,161.85	1/4	798.11	1/4	433.22	1/4	82.29	1/4		1/4			
1/2	2,244.93	1/2	1,880.09	1/2	1,515.23	1/2	1,154.25	1/2	790.50	1/2	425.62	1/2	77.23	1/2		1/2			
3/4	2,237.33	3/4	1,872.48	3/4	1,507.63	3/4	1,146.66	3/4	782.90	3/4	418.02	3/4	73.45	3/4		3/4			
3	2,229.73	3	1,864.88	3	1,500.03	3	1,139.07	3	775.30	3	410.42	3	69.66	3		3			
1/4	2,222.13	1/4	1,857.28	1/4	1,492.43	1/4	1,131.48	1/4	767.70	1/4	402.81	1/4	65.88	1/4		1/4			
1/2	2,214.53	1/2	1,849.68	1/2	1,484.83	1/2	1,123.90	1/2	760.10	1/2	395.21	1/2	62.10	1/2		1/2			
3/4	2,206.93	3/4	1,842.08	3/4	1,477.31	3/4	1,116.32	3/4	752.50	3/4	387.61	3/4	59.60	3/4		3/4			
4	2,199.33	4	1,834.48	4	1,469.79	4	1,108.75	4	744.90	4	380.01	4	57.10	4		4			
1/4	2,191.73	1/4	1,826.88	1/4	1,462.27	1/4	1,101.17	1/4	737.29	1/4	372.41	1/4	54.60	1/4		1/4			
1/2	2,184.13	1/2	1,819.28	1/2	1,454.75	1/2	1,093.60	1/2	729.69	1/2	364.81	1/2	52.11	1/2		1/2			
3/4	2,176.53	3/4	1,811.68	3/4	1,447.31	3/4	1,086.02	3/4	722.09	3/4	357.20	3/4	50.91	3/4		3/4			
5	2,168.93	5	1,804.07	5	1,439.87	5	1,078.45	5	714.49	5	349.60	5	49.71	5		5			
1/4	2,161.32	1/4	1,796.47	1/4	1,432.43	1/4	1,070.88	1/4	706.89	1/4	342.00	1/4	48.51	1/4		1/4			
1/2	2,153.72	1/2	1,788.87	1/2	1,424.99	1/2	1,063.31	1/2	699.29	1/2	334.40	1/2	47.31	1/2		1/2			
3/4	2,146.12	3/4	1,781.27	3/4	1,417.55	3/4	1,055.73	3/4	691.68	3/4	326.80	3/4		3/4		3/4			
6	2,138.52	6	1,773.67	6	1,410.11	6	1,048.16	6	684.08	6	319.19	6		6		6			
1/4	2,130.92	1/4	1,766.07	1/4	1,402.67	1/4	1,040.59	1/4	676.48	1/4	311.59	1/4		1/4		1/4			
1/2	2,123.32	1/2	1,758.47	1/2	1,395.24	1/2	1,033.02	1/2	668.88	1/2	303.99	1/2		1/2		1/2			
3/4	2,115.72	3/4	1,750.87	3/4	1,387.80	3/4	1,025.44	3/4	661.28	3/4	296.39	3/4		3/4		3/4			
7	2,108.12	7	1,743.27	7	1,380.36	7	1,017.87	7	653.68	7	288.79	7		7		7			
1/4	2,100.52	1/4	1,735.66	1/4	1,372.92	1/4	1,010.30	1/4	646.08	1/4	281.18	1/4		1/4		1/4			
1/2	2,092.92	1/2	1,728.06	1/2	1,365.48	1/2	1,002.73	1/2	638.47	1/2	273.58	1/2		1/2		1/2			
3/4	2,085.32	3/4	1,720.46	3/4	1,358.04	3/4	995.15	3/4	630.87	3/4	265.98	3/4		3/4		3/4			
8	2,077.71	8	1,712.86	8	1,350.60	8	987.58	8	623.27	8	258.38	8		8		8			
1/4	2,070.11	1/4	1,705.26	1/4	1,343.16	1/4	980.01	1/4	615.67	1/4	250.78	1/4		1/4		1/4			
1/2	2,062.51	1/2	1,697.66	1/2	1,335.72	1/2	972.44	1/2	608.07	1/2	243.18	1/2		1/2		1/2			
3/4	2,054.91	3/4	1,690.06	3/4	1,328.28	3/4	964.86	3/4	600.47	3/4	235.57	3/4		3/4		3/4			
9	2,047.31	9	1,682.46	9	1,320.84	9	957.29	9	592.86	9	227.97	9		9		9			
1/4	2,039.71	1/4	1,674.86	1/4	1,313.40	1/4	949.72	1/4	585.26	1/4	220.37	1/4		1/4		1/4			
1/2	2,032.11	1/2	1,667.25	1/2	1,305.96	1/2	942.15	1/2	577.66	1/2	212.77	1/2		1/2		1/2			
3/4	2,024.51	3/4	1,659.65	3/4	1,298.44	3/4	934.57	3/4	570.06	3/4	205.17	3/4		3/4		3/4			
10	2,016.91	10	1,652.05	10	1,290.92	10	927.00	10	562.45	10	197.56	10		10		10			
1/4	2,009.31	1/4	1,644.45	1/4	1,283.40	1/4	919.43	1/4	554.85	1/4	189.96	1/4		1/4		1/4			
1/2	2,001.71	1/2	1,636.85	1/2	1,275.88	1/2	911.86	1/2	547.25	1/2	182.36	1/2		1/2		1/2			
3/4	1,994.10	3/4	1,629.25	3/4	1,268.28	3/4	904.28	3/4	539.65	3/4	174.76	3/4		3/4		3/4			
11	1,986.50	11	1,621.65	11	1,260.68	11	896.71	11	532.05	11	167.16	11		11		11			
1/4	1,978.90	1/4	1,614.05	1/4	1,253.08	1/4	889.14	1/4	524.45	1/4	159.55	1/4		1/4		1/4			
1/2	1,971.30	1/2	1,606.45	1/2	1,245.47	1/2	881.56	1/2	516.84	1/2	151.95	1/2		1/2		1/2			
3/4	1,963.70	3/4	1,598.84	3/4	1,237.87	3/4	873.99	3/4	509.24	3/4	144.67	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/03/2011 CL - SW
CALCULATED: 03/03/2011 CL
PRINTED: 03/03/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2011

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