



BARGE "KIRBY 28710"

ULLAGE TRIM TABLE
HERMETIC

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 173-06"

August 15, 2015

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28710"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	0	0	0	4,361.12	0	4,066.17	0	3,759.53	0	3,440.96	0	3,111.58	0	2,780.40	0	2,449.22
1/4		1/4		1/4		1/4	4,355.15	1/4	4,059.90	1/4	3,753.02	1/4	3,434.20	1/4	3,104.69	1/4	2,773.50	1/4	2,442.32
1/2		1/2		1/2		1/2	4,349.13	1/2	4,053.62	1/2	3,746.50	1/2	3,427.42	1/2	3,097.79	1/2	2,766.60	1/2	2,435.42
3/4		3/4		3/4		3/4	4,343.11	3/4	4,047.34	3/4	3,739.97	3/4	3,420.64	3/4	3,090.89	3/4	2,759.71	3/4	2,428.52
1	1	1	1	1	1	1	4,337.09	1	4,041.05	1	3,733.45	1	3,413.86	1	3,083.99	1	2,752.81	1	2,421.62
1/4		1/4		1/4		1/4	4,331.07	1/4	4,034.77	1/4	3,726.92	1/4	3,407.08	1/4	3,077.09	1/4	2,745.91	1/4	2,414.73
1/2		1/2		1/2		1/2	4,325.00	1/2	4,028.47	1/2	3,720.38	1/2	3,400.28	1/2	3,070.19	1/2	2,739.01	1/2	2,407.83
3/4		3/4		3/4		3/4	4,318.94	3/4	4,022.16	3/4	3,713.83	3/4	3,393.48	3/4	3,063.29	3/4	2,732.11	3/4	2,400.93
2	2	2	2	2	2	2	4,312.88	2	4,015.86	2	3,707.28	2	3,386.68	2	3,056.39	2	2,725.21	2	2,394.03
1/4		1/4		1/4		1/4	4,306.82	1/4	4,009.56	1/4	3,700.74	1/4	3,379.88	1/4	3,049.49	1/4	2,718.31	1/4	2,387.13
1/2		1/2		1/2		1/2	4,300.73	1/2	4,003.24	1/2	3,694.17	1/2	3,373.06	1/2	3,042.59	1/2	2,711.41	1/2	2,380.23
3/4		3/4		3/4		3/4	4,294.65	3/4	3,996.92	3/4	3,687.61	3/4	3,366.24	3/4	3,035.69	3/4	2,704.51	3/4	2,373.33
3	3	3	3	3	3	3	4,288.57	3	3,990.59	3	3,681.04	3	3,359.42	3	3,028.79	3	2,697.61	3	2,366.43
1/4		1/4		1/4		1/4	4,282.48	1/4	3,984.27	1/4	3,674.48	1/4	3,352.59	1/4	3,021.89	1/4	2,690.71	1/4	2,359.53
1/2		1/2		1/2		1/2	4,276.38	1/2	3,977.93	1/2	3,667.90	1/2	3,345.75	1/2	3,014.99	1/2	2,683.81	1/2	2,352.63
3/4		3/4		3/4		3/4	4,270.27	3/4	3,971.58	3/4	3,661.31	3/4	3,338.91	3/4	3,008.09	3/4	2,676.91	3/4	2,345.73
4	4	4	4	4	4	4	4,264.17	4	3,965.24	4	3,654.73	4	3,332.07	4	3,001.19	4	2,670.01	4	2,338.83
1/4		1/4		1/4		1/4	4,258.07	1/4	3,958.89	1/4	3,648.15	1/4	3,325.22	1/4	2,994.29	1/4	2,663.11	1/4	2,331.93
1/2		1/2		1/2		1/2	4,251.95	1/2	3,952.53	1/2	3,641.55	1/2	3,318.36	1/2	2,987.39	1/2	2,656.21	1/2	2,325.03
3/4		3/4		3/4		3/4	4,245.82	3/4	3,946.16	3/4	3,634.94	3/4	3,311.50	3/4	2,980.49	3/4	2,649.31	3/4	2,318.13
5	5	5	5	5	5	5	4,239.70	5	3,939.80	5	3,628.34	5	3,304.64	5	2,973.59	5	2,642.41	5	2,311.23
1/4		1/4		1/4		1/4	4,233.58	1/4	3,933.43	1/4	3,621.74	1/4	3,297.78	1/4	2,966.69	1/4	2,635.51	1/4	2,304.33
1/2		1/2		1/2		1/2	4,227.44	1/2	3,927.05	1/2	3,615.12	1/2	3,290.90	1/2	2,959.79	1/2	2,628.61	1/2	2,297.43
3/4		3/4		3/4		3/4	4,221.30	3/4	3,920.66	3/4	3,608.49	3/4	3,284.02	3/4	2,952.89	3/4	2,621.71	3/4	2,290.53
6	6	6	6	6	6	6	4,215.16	6	3,914.28	6	3,601.87	6	3,277.14	6	2,945.99	6	2,614.81	6	2,283.63
1/4		1/4		1/4		1/4	4,209.02	1/4	3,907.89	1/4	3,595.24	1/4	3,270.26	1/4	2,939.09	1/4	2,607.91	1/4	2,276.73
1/2		1/2		1/2		1/2	4,202.85	1/2	3,901.49	1/2	3,588.59	1/2	3,263.36	1/2	2,932.20	1/2	2,601.01	1/2	2,269.83
3/4		3/4		3/4		3/4	4,196.69	3/4	3,895.09	3/4	3,581.93	3/4	3,256.47	3/4	2,925.30	3/4	2,594.11	3/4	2,262.93
7	7	7	7	7	7	7	4,190.53	7	3,888.69	7	3,575.28	7	3,249.57	7	2,918.40	7	2,587.22	7	2,256.03
1/4		1/4		1/4		1/4	4,184.36	1/4	3,882.29	1/4	3,568.63	1/4	3,242.68	1/4	2,911.50	1/4	2,580.32	1/4	2,249.13
1/2		1/2		1/2		1/2	4,178.18	1/2	3,875.86	1/2	3,561.95	1/2	3,235.78	1/2	2,904.60	1/2	2,573.42	1/2	2,242.24
3/4		3/4		3/4		3/4	4,171.99	3/4	3,869.44	3/4	3,555.27	3/4	3,228.88	3/4	2,897.70	3/4	2,566.52	3/4	2,235.34
8	8	8	8	8	8	8	4,165.80	8	3,863.02	8	3,548.59	8	3,221.98	8	2,890.80	8	2,559.62	8	2,228.44
1/4		1/4		1/4		1/4	4,149.18	1/4	3,856.60	1/4	3,541.91	1/4	3,215.08	1/4	2,883.90	1/4	2,552.72	1/4	2,221.54
1/2		1/2		1/2		1/2	4,143.55	1/2	3,850.16	1/2	3,535.21	1/2	3,208.18	1/2	2,877.00	1/2	2,545.82	1/2	2,214.64
3/4		3/4		3/4		3/4	4,137.92	3/4	3,843.71	3/4	3,528.51	3/4	3,201.28	3/4	2,870.10	3/4	2,538.92	3/4	2,207.74
9	9	9	9	9	9	9	4,132.29	9	3,837.27	9	3,521.81	9	3,194.38	9	2,863.20	9	2,532.02	9	2,200.84
1/4		1/4		1/4		1/4	4,126.67	1/4	3,830.82	1/4	3,515.11	1/4	3,187.48	1/4	2,856.30	1/4	2,525.12	1/4	2,193.94
1/2		1/2		1/2		1/2	4,120.73	1/2	3,824.36	1/2	3,508.39	1/2	3,180.58	1/2	2,849.40	1/2	2,518.22	1/2	2,187.03
3/4		3/4		3/4		3/4	4,114.79	3/4	3,817.89	3/4	3,501.66	3/4	3,173.68	3/4	2,842.50	3/4	2,511.32	3/4	2,180.13
10	10	10	10	10	10	10	4,108.85	10	3,811.43	10	3,494.94	10	3,166.78	10	2,835.60	10	2,504.42	10	2,173.23
1/4		1/4		1/4		1/4	4,102.91	1/4	3,804.97	1/4	3,488.22	1/4	3,159.88	1/4	2,828.70	1/4	2,497.52	1/4	2,166.33
1/2		1/2		1/2		1/2	4,096.94	1/2	3,798.48	1/2	3,481.48	1/2	3,152.98	1/2	2,821.80	1/2	2,490.62	1/2	2,159.43
3/4		3/4		3/4		3/4	4,090.98	3/4	3,792.00	3/4	3,474.73	3/4	3,146.08	3/4	2,814.90	3/4	2,483.72	3/4	2,152.53
11	11	11	11	11	11	11	4,085.02	11	3,785.52	11	3,467.99	11	3,139.18	11	2,808.00	11	2,476.82	11	2,145.62
1/4		1/4		1/4		1/4	4,079.06	1/4	3,779.03	1/4	3,461.24	1/4	3,132.28	1/4	2,801.10	1/4	2,469.92	1/4	2,138.72
1/2		1/2		1/2		1/2	4,073.08	1/2	3,772.53	1/2	3,454.48	1/2	3,125.38	1/2	2,794.20	1/2	2,463.02	1/2	2,131.82
3/4		3/4		3/4		3/4	4,067.10	3/4	3,766.03	3/4	3,447.72	3/4	3,118.48	3/4	2,787.30	3/4	2,456.12	3/4	2,124.92

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'-06" OFF CENTERLINE AND 35'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 28710"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,118.02	0	1,786.74	0	1,455.45	0	1,127.28	0	797.71	0	472.88	0	145.17	0		0		0	
1/4	2,111.12	1/4	1,779.83	1/4	1,448.55	1/4	1,120.38	1/4	790.85	1/4	466.46	1/4	138.28	1/4		1/4		1/4	
1/2	2,104.21	1/2	1,772.93	1/2	1,441.72	1/2	1,113.49	1/2	783.97	1/2	460.04	1/2	131.40	1/2		1/2		1/2	
3/4	2,097.31	3/4	1,766.03	3/4	1,434.88	3/4	1,106.61	3/4	777.08	3/4	453.63	3/4	124.52	3/4		3/4		3/4	
1	2,090.41	1	1,759.13	1	1,428.04	1	1,099.72	1	770.20	1	447.21	1	117.65	1		1		1	
1/4	2,083.51	1/4	1,752.23	1/4	1,421.20	1/4	1,092.84	1/4	763.32	1/4	440.79	1/4	110.77	1/4		1/4		1/4	
1/2	2,076.61	1/2	1,745.33	1/2	1,414.43	1/2	1,085.97	1/2	756.42	1/2	434.13	1/2	103.91	1/2		1/2		1/2	
3/4	2,069.71	3/4	1,738.42	3/4	1,407.66	3/4	1,079.10	3/4	749.52	3/4	427.48	3/4	97.05	3/4		3/4		3/4	
2	2,062.80	2	1,731.52	2	1,400.89	2	1,072.23	2	742.61	2	420.82	2	90.19	2		2		2	
1/4	2,055.90	1/4	1,724.62	1/4	1,394.11	1/4	1,065.37	1/4	735.71	1/4	414.16	1/4	83.33	1/4		1/4		1/4	
1/2	2,049.00	1/2	1,717.72	1/2	1,387.34	1/2	1,058.50	1/2	728.81	1/2	407.26	1/2	76.50	1/2		1/2		1/2	
3/4	2,042.10	3/4	1,710.82	3/4	1,380.57	3/4	1,051.64	3/4	721.91	3/4	400.36	3/4	69.67	3/4		3/4		3/4	
3	2,035.20	3	1,703.92	3	1,373.80	3	1,044.77	3	715.00	3	393.47	3	62.84	3		3		3	
1/4	2,028.30	1/4	1,697.01	1/4	1,367.03	1/4	1,037.91	1/4	708.10	1/4	386.57	1/4	56.01	1/4		1/4		1/4	
1/2	2,021.39	1/2	1,690.11	1/2	1,360.26	1/2	1,031.04	1/2	701.20	1/2	379.67	1/2	49.73	1/2		1/2		1/2	
3/4	2,014.49	3/4	1,683.21	3/4	1,353.50	3/4	1,024.18	3/4	694.30	3/4	372.77	3/4	43.46	3/4		3/4		3/4	
4	2,007.59	4	1,676.31	4	1,346.73	4	1,017.32	4	687.40	4	365.87	4	37.18	4		4		4	
1/4	2,000.69	1/4	1,669.41	1/4	1,339.96	1/4	1,010.46	1/4	680.49	1/4	358.97	1/4	30.90	1/4		1/4		1/4	
1/2	1,993.79	1/2	1,662.51	1/2	1,333.19	1/2	1,003.59	1/2	673.59	1/2	352.08	1/2	26.31	1/2		1/2		1/2	
3/4	1,986.89	3/4	1,655.60	3/4	1,326.42	3/4	996.73	3/4	666.69	3/4	345.18	3/4	21.71	3/4		3/4		3/4	
5	1,979.98	5	1,648.70	5	1,319.65	5	989.87	5	659.79	5	338.28	5	17.12	5		5		5	
1/4	1,973.08	1/4	1,641.80	1/4	1,312.88	1/4	983.00	1/4	652.88	1/4	331.38	1/4	12.52	1/4		1/4		1/4	
1/2	1,966.18	1/2	1,634.90	1/2	1,306.11	1/2	976.14	1/2	645.98	1/2	324.48	1/2		1/2		1/2		1/2	
3/4	1,959.28	3/4	1,628.00	3/4	1,299.33	3/4	969.28	3/4	639.08	3/4	317.59	3/4		3/4		3/4		3/4	
6	1,952.38	6	1,621.10	6	1,292.56	6	962.41	6	632.18	6	310.69	6		6		6		6	
1/4	1,945.48	1/4	1,614.19	1/4	1,285.79	1/4	955.55	1/4	625.28	1/4	303.79	1/4		1/4		1/4		1/4	
1/2	1,938.57	1/2	1,607.29	1/2	1,278.95	1/2	948.69	1/2	618.38	1/2	296.89	1/2		1/2		1/2		1/2	
3/4	1,931.67	3/4	1,600.39	3/4	1,272.11	3/4	941.82	3/4	611.49	3/4	289.99	3/4		3/4		3/4		3/4	
7	1,924.77	7	1,593.49	7	1,265.27	7	934.96	7	604.59	7	283.09	7		7		7		7	
1/4	1,917.87	1/4	1,586.59	1/4	1,258.44	1/4	928.10	1/4	597.69	1/4	276.20	1/4		1/4		1/4		1/4	
1/2	1,910.97	1/2	1,579.69	1/2	1,251.53	1/2	921.24	1/2	590.79	1/2	269.30	1/2		1/2		1/2		1/2	
3/4	1,904.07	3/4	1,572.78	3/4	1,244.63	3/4	914.37	3/4	583.89	3/4	262.40	3/4		3/4		3/4		3/4	
8	1,897.16	8	1,565.88	8	1,237.73	8	907.51	8	577.00	8	255.50	8		8		8		8	
1/4	1,890.26	1/4	1,558.98	1/4	1,230.82	1/4	900.65	1/4	570.10	1/4	248.60	1/4		1/4		1/4		1/4	
1/2	1,883.36	1/2	1,552.08	1/2	1,223.92	1/2	893.79	1/2	563.44	1/2	241.71	1/2		1/2		1/2		1/2	
3/4	1,876.46	3/4	1,545.18	3/4	1,217.02	3/4	886.92	3/4	556.78	3/4	234.81	3/4		3/4		3/4		3/4	
9	1,869.56	9	1,538.27	9	1,210.11	9	880.06	9	550.13	9	227.91	9		9		9		9	
1/4	1,862.65	1/4	1,531.37	1/4	1,203.21	1/4	873.20	1/4	543.47	1/4	221.01	1/4		1/4		1/4		1/4	
1/2	1,855.75	1/2	1,524.47	1/2	1,196.31	1/2	866.34	1/2	537.05	1/2	214.11	1/2		1/2		1/2		1/2	
3/4	1,848.85	3/4	1,517.57	3/4	1,189.41	3/4	859.47	3/4	530.63	3/4	207.21	3/4		3/4		3/4		3/4	
10	1,841.95	10	1,510.67	10	1,182.50	10	852.61	10	524.22	10	200.32	10		10		10		10	
1/4	1,835.05	1/4	1,503.77	1/4	1,175.60	1/4	845.75	1/4	517.80	1/4	193.42	1/4		1/4		1/4		1/4	
1/2	1,828.15	1/2	1,496.86	1/2	1,168.70	1/2	838.89	1/2	511.38	1/2	186.52	1/2		1/2		1/2		1/2	
3/4	1,821.24	3/4	1,489.96	3/4	1,161.79	3/4	832.02	3/4	504.96	3/4	179.63	3/4		3/4		3/4		3/4	
11	1,814.34	11	1,483.06	11	1,154.89	11	825.16	11	498.55	11	172.73	11		11		11		11	
1/4	1,807.44	1/4	1,476.16	1/4	1,147.99	1/4	818.30	1/4	492.13	1/4	165.84	1/4		1/4		1/4		1/4	
1/2	1,800.54	1/2	1,469.26	1/2	1,141.08	1/2	811.44	1/2	485.71	1/2	158.95	1/2		1/2		1/2		1/2	
3/4	1,793.64	3/4	1,462.36	3/4	1,134.18	3/4	804.57	3/4	479.29	3/4	152.06	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

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	0	0	0	4,363.48	0	4,066.99	0	3,758.88	0	3,438.81	0	3,108.18	0	2,776.01	0	2,443.84
1/4		1/4		1/4		1/4	4,357.44	1/4	4,060.68	1/4	3,752.33	1/4	3,432.01	1/4	3,101.26	1/4	2,769.09	1/4	2,436.92
1/2		1/2		1/2		1/2	4,351.40	1/2	4,054.38	1/2	3,745.79	1/2	3,425.21	1/2	3,094.34	1/2	2,762.17	1/2	2,430.00
3/4		3/4		3/4		3/4	4,345.36	3/4	4,048.07	3/4	3,739.24	3/4	3,418.41	3/4	3,087.42	3/4	2,755.25	3/4	2,423.08
1	1	1	1	1	1	1	4,339.28	1	4,041.75	1	3,732.67	1	3,411.59	1	3,080.50	1	2,748.33	1	2,416.16
1/4		1/4		1/4		1/4	4,333.20	1/4	4,035.43	1/4	3,726.11	1/4	3,404.77	1/4	3,073.58	1/4	2,741.41	1/4	2,409.24
1/2		1/2		1/2		1/2	4,327.11	1/2	4,029.11	1/2	3,719.54	1/2	3,397.95	1/2	3,066.66	1/2	2,734.49	1/2	2,402.32
3/4		3/4		3/4		3/4	4,321.03	3/4	4,022.78	3/4	3,712.97	3/4	3,391.12	3/4	3,059.74	3/4	2,727.57	3/4	2,395.40
2	2	2	2	2	2	2	4,314.93	2	4,016.44	2	3,706.39	2	3,384.28	2	3,052.82	2	2,720.65	2	2,388.48
1/4		1/4		1/4		1/4	4,308.82	1/4	4,010.10	1/4	3,699.80	1/4	3,377.44	1/4	3,045.90	1/4	2,713.73	1/4	2,381.56
1/2		1/2		1/2		1/2	4,302.72	1/2	4,003.76	1/2	3,693.22	1/2	3,370.60	1/2	3,038.98	1/2	2,706.81	1/2	2,374.64
3/4		3/4		3/4		3/4	4,296.61	3/4	3,997.41	3/4	3,686.63	3/4	3,363.76	3/4	3,032.06	3/4	2,699.89	3/4	2,367.72
3	3	3	3	3	3	3	4,290.49	3	3,991.05	3	3,680.03	3	3,356.89	3	3,025.14	3	2,692.97	3	2,360.80
1/4		1/4		1/4		1/4	4,284.37	1/4	3,984.68	1/4	3,673.43	1/4	3,350.03	1/4	3,018.22	1/4	2,686.05	1/4	2,353.88
1/2		1/2		1/2		1/2	4,278.24	1/2	3,978.32	1/2	3,666.82	1/2	3,343.17	1/2	3,011.30	1/2	2,679.13	1/2	2,346.96
3/4		3/4		3/4		3/4	4,272.12	3/4	3,971.95	3/4	3,660.22	3/4	3,336.30	3/4	3,004.38	3/4	2,672.21	3/4	2,340.04
4	4	4	4	4	4	4	4,265.97	4	3,965.57	4	3,653.60	4	3,329.42	4	2,997.46	4	2,665.29	4	2,333.12
1/4		1/4		1/4		1/4	4,259.83	1/4	3,959.18	1/4	3,646.97	1/4	3,322.54	1/4	2,990.54	1/4	2,658.37	1/4	2,326.20
1/2		1/2		1/2		1/2	4,253.69	1/2	3,952.79	1/2	3,640.35	1/2	3,315.66	1/2	2,983.62	1/2	2,651.45	1/2	2,319.28
3/4		3/4		3/4		3/4	4,247.55	3/4	3,946.41	3/4	3,633.73	3/4	3,308.78	3/4	2,976.70	3/4	2,644.53	3/4	2,312.36
5	5	5	5	5	5	5	4,241.39	5	3,940.00	5	3,627.08	5	3,301.88	5	2,969.78	5	2,637.61	5	2,305.44
1/4		1/4		1/4		1/4	4,235.22	1/4	3,933.60	1/4	3,620.44	1/4	3,294.98	1/4	2,962.86	1/4	2,630.69	1/4	2,298.52
1/2		1/2		1/2		1/2	4,229.06	1/2	3,927.19	1/2	3,613.79	1/2	3,288.08	1/2	2,955.94	1/2	2,623.77	1/2	2,291.60
3/4		3/4		3/4		3/4	4,222.90	3/4	3,920.79	3/4	3,607.15	3/4	3,281.17	3/4	2,949.02	3/4	2,616.85	3/4	2,284.68
6	6	6	6	6	6	6	4,216.72	6	3,914.37	6	3,600.47	6	3,274.26	6	2,942.10	6	2,609.93	6	2,277.76
1/4		1/4		1/4	4,490.14	1/4	4,210.53	1/4	3,907.94	1/4	3,593.80	1/4	3,267.34	1/4	2,935.18	1/4	2,603.01	1/4	2,270.84
1/2		1/2		1/2	4,486.54	1/2	4,204.35	1/2	3,901.52	1/2	3,587.12	1/2	3,260.42	1/2	2,928.26	1/2	2,596.09	1/2	2,263.92
3/4		3/4		3/4	4,482.94	3/4	4,198.16	3/4	3,895.10	3/4	3,580.45	3/4	3,253.51	3/4	2,921.34	3/4	2,589.17	3/4	2,257.00
7	7	7	7	7	7	7	4,478.17	7	4,191.96	7	3,888.66	7	3,573.75	7	2,914.42	7	2,582.25	7	2,250.08
1/4		1/4		1/4	4,473.41	1/4	4,185.75	1/4	3,882.21	1/4	3,567.05	1/4	3,249.66	1/4	2,907.50	1/4	2,575.33	1/4	2,243.16
1/2		1/2		1/2	4,468.65	1/2	4,179.54	1/2	3,875.77	1/2	3,560.35	1/2	3,232.74	1/2	2,900.58	1/2	2,568.41	1/2	2,236.24
3/4		3/4		3/4	4,463.88	3/4	4,173.34	3/4	3,869.33	3/4	3,553.65	3/4	3,225.82	3/4	2,893.65	3/4	2,561.49	3/4	2,229.32
8	8	8	8	8	8	8	4,458.24	8	4,167.11	8	3,862.86	8	3,546.93	8	2,886.73	8	2,554.57	8	2,222.39
1/4		1/4		1/4	4,452.59	1/4	4,160.89	1/4	3,856.40	1/4	3,540.21	1/4	3,211.98	1/4	2,879.81	1/4	2,547.64	1/4	2,215.47
1/2		1/2		1/2	4,446.94	1/2	4,154.67	1/2	3,849.94	1/2	3,533.49	1/2	3,205.06	1/2	2,872.89	1/2	2,540.72	1/2	2,208.55
3/4		3/4		3/4	4,441.29	3/4	4,148.44	3/4	3,843.47	3/4	3,526.77	3/4	3,198.14	3/4	2,865.97	3/4	2,533.80	3/4	2,201.63
9	9	9	9	9	9	9	4,435.33	9	4,142.20	9	3,836.99	9	3,520.02	9	2,859.05	9	2,526.88	9	2,194.71
1/4		1/4		1/4	4,429.37	1/4	4,135.96	1/4	3,830.50	1/4	3,513.28	1/4	3,184.30	1/4	2,852.13	1/4	2,519.96	1/4	2,187.79
1/2		1/2		1/2	4,423.41	1/2	4,129.72	1/2	3,824.01	1/2	3,506.54	1/2	3,177.38	1/2	2,845.21	1/2	2,513.04	1/2	2,180.86
3/4		3/4		3/4	4,417.45	3/4	4,123.48	3/4	3,817.53	3/4	3,499.79	3/4	3,170.46	3/4	2,838.29	3/4	2,506.12	3/4	2,173.94
10	10	10	10	10	10	10	4,411.47	10	4,117.21	10	3,811.03	10	3,493.03	10	2,831.37	10	2,499.20	10	2,167.02
1/4		1/4		1/4	4,405.49	1/4	4,110.95	1/4	3,804.52	1/4	3,486.26	1/4	3,156.62	1/4	2,824.45	1/4	2,492.28	1/4	2,160.10
1/2		1/2		1/2	4,399.50	1/2	4,104.69	1/2	3,798.02	1/2	3,479.50	1/2	3,149.70	1/2	2,817.53	1/2	2,485.36	1/2	2,153.17
3/4		3/4		3/4	4,393.52	3/4	4,098.43	3/4	3,791.52	3/4	3,472.74	3/4	3,142.78	3/4	2,810.61	3/4	2,478.44	3/4	2,146.25
11	11	11	11	11	11	11	4,387.52	11	4,092.15	11	3,784.99	11	3,465.95	11	2,803.69	11	2,471.52	11	2,139.33
1/4		1/4		1/4	4,381.52	1/4	4,085.86	1/4	3,778.47	1/4	3,459.17	1/4	3,128.94	1/4	2,796.77	1/4	2,464.60	1/4	2,132.41
1/2		1/2		1/2	4,375.52	1/2	4,079.58	1/2	3,771.95	1/2	3,452.39	1/2	3,122.02	1/2	2,789.85	1/2	2,457.68	1/2	2,125.49
3/4		3/4		3/4	4,369.52	3/4	4,073.29	3/4	3,765.42	3/4	3,445.61	3/4	3,115.10	3/4	2,782.93	3/4	2,450.76	3/4	2,118.56

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'-06" OFF CENTERLINE AND 35'-06" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,111.64	0	1,779.37	0	1,447.16	0	1,117.93	0	786.06	0	461.43	0	131.79	0		0		0	
1/4	2,104.72	1/4	1,772.45	1/4	1,440.31	1/4	1,111.01	1/4	779.16	1/4	454.99	1/4	124.90	1/4		1/4		1/4	
1/2	2,097.80	1/2	1,765.53	1/2	1,433.45	1/2	1,104.08	1/2	772.26	1/2	448.55	1/2	118.00	1/2		1/2		1/2	
3/4	2,090.87	3/4	1,758.60	3/4	1,426.59	3/4	1,097.16	3/4	765.35	3/4	442.11	3/4	111.10	3/4		3/4		3/4	
1	2,083.95	1	1,751.68	1	1,419.80	1	1,090.24	1	758.45	1	435.43	1	104.22	1		1		1	
1/4	2,077.03	1/4	1,744.76	1/4	1,413.00	1/4	1,083.31	1/4	751.55	1/4	428.75	1/4	97.34	1/4		1/4		1/4	
1/2	2,070.11	1/2	1,737.84	1/2	1,406.21	1/2	1,076.39	1/2	744.64	1/2	422.08	1/2	90.46	1/2		1/2		1/2	
3/4	2,063.18	3/4	1,730.91	3/4	1,399.42	3/4	1,069.46	3/4	737.74	3/4	415.40	3/4	83.58	3/4		3/4		3/4	
2	2,056.26	2	1,723.99	2	1,392.63	2	1,062.54	2	730.84	2	408.48	2	76.73	2		2		2	
1/4	2,049.34	1/4	1,717.07	1/4	1,385.84	1/4	1,055.62	1/4	723.94	1/4	401.56	1/4	69.88	1/4		1/4		1/4	
1/2	2,042.42	1/2	1,710.15	1/2	1,379.05	1/2	1,048.69	1/2	717.03	1/2	394.64	1/2	63.03	1/2		1/2		1/2	
3/4	2,035.50	3/4	1,703.22	3/4	1,372.25	3/4	1,041.77	3/4	710.13	3/4	387.72	3/4	56.18	3/4		3/4		3/4	
3	2,028.57	3	1,696.30	3	1,365.47	3	1,034.85	3	703.23	3	380.80	3	49.88	3		3		3	
1/4	2,021.65	1/4	1,689.38	1/4	1,358.68	1/4	1,027.92	1/4	696.32	1/4	373.88	1/4	43.58	1/4		1/4		1/4	
1/2	2,014.73	1/2	1,682.46	1/2	1,351.89	1/2	1,021.00	1/2	689.42	1/2	366.97	1/2	37.29	1/2		1/2		1/2	
3/4	2,007.81	3/4	1,675.54	3/4	1,345.10	3/4	1,014.08	3/4	682.52	3/4	360.05	3/4	30.99	3/4		3/4		3/4	
4	2,000.88	4	1,668.61	4	1,338.31	4	1,007.15	4	675.60	4	353.13	4	26.38	4		4		4	
1/4	1,993.96	1/4	1,661.69	1/4	1,331.52	1/4	1,000.23	1/4	668.69	1/4	346.21	1/4	21.77	1/4		1/4		1/4	
1/2	1,987.04	1/2	1,654.77	1/2	1,324.73	1/2	993.30	1/2	661.78	1/2	339.29	1/2	17.17	1/2		1/2		1/2	
3/4	1,980.12	3/4	1,647.85	3/4	1,317.94	3/4	986.38	3/4	654.86	3/4	332.37	3/4	12.56	3/4		3/4		3/4	
5	1,973.19	5	1,640.92	5	1,311.14	5	979.46	5	647.94	5	325.45	5		5		5		5	
1/4	1,966.27	1/4	1,634.00	1/4	1,304.35	1/4	972.53	1/4	641.02	1/4	318.53	1/4		1/4		1/4		1/4	
1/2	1,959.35	1/2	1,627.08	1/2	1,297.56	1/2	965.61	1/2	634.10	1/2	311.62	1/2		1/2		1/2		1/2	
3/4	1,952.43	3/4	1,620.16	3/4	1,290.76	3/4	958.69	3/4	627.18	3/4	304.70	3/4		3/4		3/4		3/4	
6	1,945.51	6	1,613.24	6	1,283.90	6	951.77	6	620.26	6	297.78	6		6		6		6	
1/4	1,938.58	1/4	1,606.31	1/4	1,277.04	1/4	944.86	1/4	613.34	1/4	290.86	1/4		1/4		1/4		1/4	
1/2	1,931.66	1/2	1,599.39	1/2	1,270.18	1/2	937.95	1/2	606.42	1/2	283.94	1/2		1/2		1/2		1/2	
3/4	1,924.74	3/4	1,592.47	3/4	1,263.33	3/4	931.03	3/4	599.50	3/4	277.02	3/4		3/4		3/4		3/4	
7	1,917.82	7	1,585.55	7	1,256.40	7	924.13	7	592.59	7	270.10	7		7		7		7	
1/4	1,910.89	1/4	1,578.62	1/4	1,249.48	1/4	917.22	1/4	585.67	1/4	263.18	1/4		1/4		1/4		1/4	
1/2	1,903.97	1/2	1,571.70	1/2	1,242.55	1/2	910.32	1/2	578.75	1/2	256.26	1/2		1/2		1/2		1/2	
3/4	1,897.05	3/4	1,564.78	3/4	1,235.63	3/4	903.42	3/4	571.83	3/4	249.35	3/4		3/4		3/4		3/4	
8	1,890.13	8	1,557.86	8	1,228.71	8	896.52	8	565.15	8	242.43	8		8		8		8	
1/4	1,883.20	1/4	1,550.93	1/4	1,221.78	1/4	889.61	1/4	558.47	1/4	235.51	1/4		1/4		1/4		1/4	
1/2	1,876.28	1/2	1,544.01	1/2	1,214.86	1/2	882.71	1/2	551.80	1/2	228.59	1/2		1/2		1/2		1/2	
3/4	1,869.36	3/4	1,537.09	3/4	1,207.94	3/4	875.81	3/4	545.12	3/4	221.67	3/4		3/4		3/4		3/4	
9	1,862.44	9	1,530.17	9	1,201.01	9	868.90	9	538.68	9	214.75	9		9		9		9	
1/4	1,855.52	1/4	1,523.25	1/4	1,194.09	1/4	862.00	1/4	532.24	1/4	207.83	1/4		1/4		1/4		1/4	
1/2	1,848.59	1/2	1,516.32	1/2	1,187.17	1/2	855.10	1/2	525.80	1/2	200.92	1/2		1/2		1/2		1/2	
3/4	1,841.67	3/4	1,509.40	3/4	1,180.24	3/4	848.19	3/4	519.37	3/4	194.00	3/4		3/4		3/4		3/4	
10	1,834.75	10	1,502.48	10	1,173.32	10	841.29	10	512.93	10	187.08	10		10		10		10	
1/4	1,827.83	1/4	1,495.56	1/4	1,166.39	1/4	834.39	1/4	506.49	1/4	180.16	1/4		1/4		1/4		1/4	
1/2	1,820.90	1/2	1,488.63	1/2	1,159.47	1/2	827.48	1/2	500.05	1/2	173.25	1/2		1/2		1/2		1/2	
3/4	1,813.98	3/4	1,481.71	3/4	1,152.55	3/4	820.58	3/4	493.61	3/4	166.33	3/4		3/4		3/4		3/4	
11	1,807.06	11	1,474.79	11	1,145.62	11	813.68	11	487.18	11	159.42	11		11		11		11	
1/4	1,800.14	1/4	1,467.87	1/4	1,138.70	1/4	806.77	1/4	480.74	1/4	152.51	1/4		1/4		1/4		1/4	
1/2	1,793.21	1/2	1,460.94	1/2	1,131.78	1/2	799.87	1/2	474.30	1/2	145.60	1/2		1/2		1/2		1/2	
3/4	1,786.29	3/4	1,454.02	3/4	1,124.85	3/4	792.97	3/4	467.86	3/4	138.69	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	0	0	0	5,100.36	0	4,754.26	0	4,394.49	0	4,020.76	0	3,634.39	0	3,245.90	0	2,857.41
1/4		1/4		1/4		1/4	5,093.35	1/4	4,746.92	1/4	4,386.86	1/4	4,012.83	1/4	3,626.29	1/4	3,237.80	1/4	2,849.32
1/2		1/2		1/2		1/2	5,086.28	1/2	4,739.54	1/2	4,379.21	1/2	4,004.88	1/2	3,618.20	1/2	3,229.71	1/2	2,841.22
3/4		3/4		3/4		3/4	5,079.22	3/4	4,732.17	3/4	4,371.55	3/4	3,996.92	3/4	3,610.11	3/4	3,221.62	3/4	2,833.13
1	1	1	1	1	1	1	5,072.16	1	4,724.79	1	4,363.90	1	3,988.97	1	3,602.01	1	3,213.52	1	2,825.04
1/4		1/4		1/4		1/4	5,065.10	1/4	4,717.42	1/4	4,356.24	1/4	3,981.02	1/4	3,593.92	1/4	3,205.43	1/4	2,816.94
1/2		1/2		1/2		1/2	5,057.98	1/2	4,710.03	1/2	4,348.56	1/2	3,973.04	1/2	3,585.83	1/2	3,197.34	1/2	2,808.85
3/4		3/4		3/4		3/4	5,050.87	3/4	4,702.63	3/4	4,340.88	3/4	3,965.06	3/4	3,577.73	3/4	3,189.24	3/4	2,800.76
2	2	2	2	2	2	2	5,043.76	2	4,695.24	2	4,333.20	2	3,957.09	2	3,569.64	2	3,181.15	2	2,792.66
1/4		1/4		1/4		1/4	5,036.64	1/4	4,687.84	1/4	4,325.52	1/4	3,949.11	1/4	3,561.54	1/4	3,173.06	1/4	2,784.57
1/2		1/2		1/2		1/2	5,029.50	1/2	4,680.43	1/2	4,317.82	1/2	3,941.11	1/2	3,553.45	1/2	3,164.96	1/2	2,776.48
3/4		3/4		3/4		3/4	5,022.37	3/4	4,673.01	3/4	4,310.12	3/4	3,933.11	3/4	3,545.36	3/4	3,156.87	3/4	2,768.38
3	3	3	3	3	3	3	5,015.23	3	4,665.59	3	4,302.42	3	3,925.10	3	3,537.26	3	3,148.78	3	2,760.29
1/4		1/4		1/4		1/4	5,008.09	1/4	4,658.17	1/4	4,294.71	1/4	3,917.10	1/4	3,529.17	1/4	3,140.68	1/4	2,752.19
1/2		1/2		1/2		1/2	5,000.92	1/2	4,650.73	1/2	4,286.99	1/2	3,909.07	1/2	3,521.08	1/2	3,132.59	1/2	2,744.10
3/4		3/4		3/4		3/4	4,993.76	3/4	4,643.29	3/4	4,279.27	3/4	3,901.05	3/4	3,512.98	3/4	3,124.50	3/4	2,736.01
4	4	4	4	4	4	4	4,986.60	4	4,635.84	4	4,271.55	4	3,893.02	4	3,504.89	4	3,116.40	4	2,727.91
1/4		1/4		1/4		1/4	4,979.44	1/4	4,628.40	1/4	4,263.82	1/4	3,884.99	1/4	3,496.80	1/4	3,108.31	1/4	2,719.82
1/2		1/2		1/2		1/2	4,972.25	1/2	4,620.93	1/2	4,256.08	1/2	3,876.95	1/2	3,488.70	1/2	3,100.22	1/2	2,711.73
3/4		3/4		3/4		3/4	4,965.07	3/4	4,613.46	3/4	4,248.33	3/4	3,868.90	3/4	3,480.61	3/4	3,092.12	3/4	2,703.63
5	5	5	5	5	5	5	4,957.89	5	4,605.99	5	4,240.59	5	3,860.85	5	3,472.52	5	3,084.03	5	2,695.54
1/4		1/4		1/4		1/4	4,950.70	1/4	4,598.52	1/4	4,232.84	1/4	3,852.80	1/4	3,464.42	1/4	3,075.93	1/4	2,687.45
1/2		1/2		1/2		1/2	4,943.50	1/2	4,591.03	1/2	4,225.07	1/2	3,844.73	1/2	3,456.33	1/2	3,067.84	1/2	2,679.35
3/4		3/4		3/4		3/4	4,936.29	3/4	4,583.54	3/4	4,217.30	3/4	3,836.66	3/4	3,448.24	3/4	3,059.75	3/4	2,671.26
6	6	6	6	6	6	6	4,929.09	6	4,576.05	6	4,209.53	6	3,828.59	6	3,440.14	6	3,051.65	6	2,663.17
1/4		1/4		1/4		1/4	4,921.88	1/4	4,568.56	1/4	4,201.75	1/4	3,820.52	1/4	3,432.05	1/4	3,043.56	1/4	2,655.07
1/2		1/2		1/2		1/2	4,914.65	1/2	4,561.05	1/2	4,193.95	1/2	3,812.43	1/2	3,423.96	1/2	3,035.47	1/2	2,646.98
3/4		3/4		3/4		3/4	5,234.30	3/4	4,907.42	3/4	4,553.54	3/4	4,186.14	3/4	3,804.34	3/4	3,415.86	3/4	3,027.37
7	7	7	7	7	7	7	4,900.18	7	4,546.03	7	4,178.34	7	3,796.25	7	3,407.77	7	3,019.28	7	2,638.89
1/4		1/4		1/4		1/4	5,225.89	1/4	4,892.95	1/4	4,538.52	1/4	4,170.53	1/4	3,788.16	1/4	3,399.67	1/4	3,011.19
1/2		1/2		1/2		1/2	5,220.33	1/2	4,885.69	1/2	4,530.98	1/2	4,162.69	1/2	3,780.07	1/2	3,391.58	1/2	3,003.09
3/4		3/4		3/4		3/4	5,214.76	3/4	4,878.43	3/4	4,523.45	3/4	4,154.86	3/4	3,771.98	3/4	3,383.49	3/4	2,995.00
8	8	8	8	8	8	8	5,209.19	8	4,871.17	8	4,515.91	8	4,147.02	8	3,763.88	8	3,375.39	8	2,986.91
1/4		1/4		1/4		1/4	5,203.63	1/4	4,863.92	1/4	4,508.38	1/4	4,139.18	1/4	3,755.79	1/4	3,367.30	1/4	2,978.81
1/2		1/2		1/2		1/2	5,197.02	1/2	4,856.64	1/2	4,500.82	1/2	4,131.33	1/2	3,747.70	1/2	3,359.21	1/2	2,970.72
3/4		3/4		3/4		3/4	5,190.42	3/4	4,849.36	3/4	4,493.26	3/4	4,123.47	3/4	3,739.60	3/4	3,351.11	3/4	2,962.63
9	9	9	9	9	9	9	5,183.82	9	4,842.08	9	4,485.70	9	4,115.61	9	3,731.51	9	3,343.02	9	2,954.53
1/4		1/4		1/4		1/4	5,177.22	1/4	4,834.80	1/4	4,478.14	1/4	4,107.75	1/4	3,723.41	1/4	3,334.93	1/4	2,946.44
1/2		1/2		1/2		1/2	5,170.25	1/2	4,827.50	1/2	4,470.55	1/2	4,099.86	1/2	3,715.32	1/2	3,326.83	1/2	2,938.35
3/4		3/4		3/4		3/4	5,163.29	3/4	4,820.20	3/4	4,462.97	3/4	4,091.97	3/4	3,707.23	3/4	3,318.74	3/4	2,930.25
10	10	10	10	10	10	10	5,156.32	10	4,812.90	10	4,455.38	10	4,084.09	10	3,699.13	10	3,310.65	10	2,922.16
1/4		1/4		1/4		1/4	5,149.36	1/4	4,805.60	1/4	4,447.80	1/4	4,076.20	1/4	3,691.04	1/4	3,302.55	1/4	2,914.06
1/2		1/2		1/2		1/2	5,142.37	1/2	4,798.28	1/2	4,440.19	1/2	4,068.29	1/2	3,682.95	1/2	3,294.46	1/2	2,905.97
3/4		3/4		3/4		3/4	5,135.37	3/4	4,790.96	3/4	4,432.59	3/4	4,060.38	3/4	3,674.85	3/4	3,286.37	3/4	2,897.88
11	11	11	11	11	11	11	5,128.38	11	4,783.63	11	4,424.98	11	4,052.47	11	3,666.76	11	3,278.27	11	2,889.78
1/4		1/4		1/4		1/4	5,121.39	1/4	4,776.31	1/4	4,417.38	1/4	4,044.56	1/4	3,658.67	1/4	3,270.18	1/4	2,881.69
1/2		1/2		1/2		1/2	5,114.38	1/2	4,768.96	1/2	4,409.75	1/2	4,036.63	1/2	3,650.57	1/2	3,262.09	1/2	2,873.60
3/4		3/4		3/4		3/4	5,107.37	3/4	4,761.61	3/4	4,402.12	3/4	4,028.69	3/4	3,642.48	3/4	3,253.99	3/4	2,865.50

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'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,468.90	0	2,080.29	0	1,691.68	0	1,307.24	0	929.77	0	555.09	0	170.11	0		0		0	
1/4	2,460.80	1/4	2,072.19	1/4	1,683.58	1/4	1,299.14	1/4	922.07	1/4	547.48	1/4	162.03	1/4		1/4		1/4	
1/2	2,452.70	1/2	2,064.10	1/2	1,675.57	1/2	1,291.04	1/2	914.38	1/2	539.87	1/2	153.96	1/2		1/2		1/2	
3/4	2,444.61	3/4	2,056.00	3/4	1,667.56	3/4	1,282.95	3/4	906.68	3/4	532.26	3/4	145.89	3/4		3/4		3/4	
1	2,436.51	1	2,047.90	1	1,659.55	1	1,274.85	1	898.98	1	524.65	1	137.83	1		1		1	
1/4	2,428.42	1/4	2,039.81	1/4	1,651.54	1/4	1,266.76	1/4	891.28	1/4	517.04	1/4	129.76	1/4		1/4		1/4	
1/2	2,420.32	1/2	2,031.71	1/2	1,643.62	1/2	1,258.66	1/2	883.58	1/2	509.19	1/2	121.71	1/2		1/2		1/2	
3/4	2,412.22	3/4	2,023.62	3/4	1,635.70	3/4	1,250.56	3/4	875.89	3/4	501.34	3/4	113.67	3/4		3/4		3/4	
2	2,404.13	2	2,015.52	2	1,627.77	2	1,242.47	2	868.19	2	493.49	2	105.62	2		2		2	
1/4	2,396.03	1/4	2,007.42	1/4	1,619.85	1/4	1,234.37	1/4	860.49	1/4	485.64	1/4	97.57	1/4		1/4		1/4	
1/2	2,387.94	1/2	1,999.33	1/2	1,611.93	1/2	1,226.27	1/2	852.79	1/2	477.55	1/2	89.56	1/2		1/2		1/2	
3/4	2,379.84	3/4	1,991.23	3/4	1,604.01	3/4	1,218.18	3/4	845.10	3/4	469.46	3/4	81.55	3/4		3/4		3/4	
3	2,371.74	3	1,983.14	3	1,596.09	3	1,210.08	3	837.40	3	461.36	3	73.54	3		3		3	
1/4	2,363.65	1/4	1,975.04	1/4	1,588.17	1/4	1,201.98	1/4	829.70	1/4	453.27	1/4	65.53	1/4		1/4		1/4	
1/2	2,355.55	1/2	1,966.94	1/2	1,580.25	1/2	1,193.89	1/2	822.00	1/2	445.18	1/2	58.16	1/2		1/2		1/2	
3/4	2,347.46	3/4	1,958.85	3/4	1,572.33	3/4	1,185.79	3/4	814.30	3/4	437.09	3/4	50.80	3/4		3/4		3/4	
4	2,339.36	4	1,950.75	4	1,564.41	4	1,177.70	4	806.61	4	429.00	4	43.44	4		4		4	
1/4	2,331.26	1/4	1,942.66	1/4	1,556.49	1/4	1,169.60	1/4	798.91	1/4	420.91	1/4	36.07	1/4		1/4		1/4	
1/2	2,323.17	1/2	1,934.56	1/2	1,548.57	1/2	1,161.68	1/2	791.01	1/2	412.81	1/2	30.68	1/2		1/2		1/2	
3/4	2,315.07	3/4	1,926.46	3/4	1,540.65	3/4	1,153.75	3/4	783.12	3/4	404.72	3/4	25.29	3/4		3/4		3/4	
5	2,306.98	5	1,918.37	5	1,532.73	5	1,145.83	5	775.22	5	396.63	5	19.90	5		5		5	
1/4	2,298.88	1/4	1,910.27	1/4	1,524.81	1/4	1,137.91	1/4	767.32	1/4	388.54	1/4	14.51	1/4		1/4		1/4	
1/2	2,290.78	1/2	1,902.18	1/2	1,516.88	1/2	1,130.16	1/2	759.23	1/2	380.45	1/2		1/2		1/2		1/2	
3/4	2,282.69	3/4	1,894.08	3/4	1,508.96	3/4	1,122.42	3/4	751.13	3/4	372.36	3/4		3/4		3/4		3/4	
6	2,274.59	6	1,885.98	6	1,501.03	6	1,114.67	6	743.04	6	364.26	6		6		6		6	
1/4	2,266.50	1/4	1,877.89	1/4	1,493.11	1/4	1,106.92	1/4	734.95	1/4	356.17	1/4		1/4		1/4		1/4	
1/2	2,258.40	1/2	1,869.79	1/2	1,485.10	1/2	1,099.20	1/2	726.86	1/2	348.08	1/2		1/2		1/2		1/2	
3/4	2,250.30	3/4	1,861.70	3/4	1,477.09	3/4	1,091.47	3/4	718.76	3/4	339.99	3/4		3/4		3/4		3/4	
7	2,242.21	7	1,853.60	7	1,469.08	7	1,083.75	7	710.67	7	331.90	7		7		7		7	
1/4	2,234.11	1/4	1,845.50	1/4	1,461.07	1/4	1,076.03	1/4	702.58	1/4	323.81	1/4		1/4		1/4		1/4	
1/2	2,226.02	1/2	1,837.41	1/2	1,452.97	1/2	1,068.33	1/2	694.49	1/2	315.71	1/2		1/2		1/2		1/2	
3/4	2,217.92	3/4	1,829.31	3/4	1,444.88	3/4	1,060.63	3/4	686.40	3/4	307.62	3/4		3/4		3/4		3/4	
8	2,209.82	8	1,821.22	8	1,436.78	8	1,052.94	8	678.31	8	299.53	8		8		8		8	
1/4	2,201.73	1/4	1,813.12	1/4	1,428.68	1/4	1,045.24	1/4	670.22	1/4	291.44	1/4		1/4		1/4		1/4	
1/2	2,193.63	1/2	1,805.02	1/2	1,420.59	1/2	1,037.54	1/2	662.36	1/2	283.35	1/2		1/2		1/2		1/2	
3/4	2,185.54	3/4	1,796.93	3/4	1,412.49	3/4	1,029.84	3/4	654.51	3/4	275.26	3/4		3/4		3/4		3/4	
9	2,177.44	9	1,788.83	9	1,404.39	9	1,022.15	9	646.66	9	267.17	9		9		9		9	
1/4	2,169.34	1/4	1,780.74	1/4	1,396.30	1/4	1,014.45	1/4	638.81	1/4	259.07	1/4		1/4		1/4		1/4	
1/2	2,161.25	1/2	1,772.64	1/2	1,388.20	1/2	1,006.75	1/2	631.20	1/2	250.98	1/2		1/2		1/2		1/2	
3/4	2,153.15	3/4	1,764.54	3/4	1,380.11	3/4	999.05	3/4	623.59	3/4	242.89	3/4		3/4		3/4		3/4	
10	2,145.06	10	1,756.45	10	1,372.01	10	991.35	10	615.98	10	234.80	10		10		10		10	
1/4	2,136.96	1/4	1,748.35	1/4	1,363.91	1/4	983.66	1/4	608.37	1/4	226.71	1/4		1/4		1/4		1/4	
1/2	2,128.86	1/2	1,740.26	1/2	1,355.82	1/2	975.96	1/2	600.76	1/2	218.62	1/2		1/2		1/2		1/2	
3/4	2,120.77	3/4	1,732.16	3/4	1,347.72	3/4	968.26	3/4	593.15	3/4	210.53	3/4		3/4		3/4		3/4	
11	2,112.67	11	1,724.06	11	1,339.62	11	960.56	11	585.54	11	202.44	11		11		11		11	
1/4	2,104.58	1/4	1,715.97	1/4	1,331.53	1/4	952.87	1/4	577.93	1/4	194.35	1/4		1/4		1/4		1/4	
1/2	2,096.48	1/2	1,707.87	1/2	1,323.43	1/2	945.17	1/2	570.32	1/2	186.27	1/2		1/2		1/2		1/2	
3/4	2,088.38	3/4	1,699.78	3/4	1,315.33	3/4	937.47	3/4	562.71	3/4	178.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 28710"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	0	0	0	5,075.67	0	4,729.39	0	4,369.57	0	3,995.72	0	3,609.85	0	3,222.44	0	2,835.02
1/4		1/4		1/4		1/4	5,068.63	1/4	4,722.03	1/4	4,361.93	1/4	3,987.79	1/4	3,601.78	1/4	3,214.37	1/4	2,826.95
1/2		1/2		1/2		1/2	5,061.54	1/2	4,714.66	1/2	4,354.27	1/2	3,979.83	1/2	3,593.71	1/2	3,206.29	1/2	2,818.88
3/4		3/4		3/4		3/4	5,054.45	3/4	4,707.29	3/4	4,346.62	3/4	3,971.88	3/4	3,585.64	3/4	3,198.22	3/4	2,810.81
1	1	1	1	1	1	1	5,047.36	1	4,699.92	1	4,338.96	1	3,963.92	1	3,577.56	1	3,190.15	1	2,802.74
1/4		1/4		1/4		1/4	5,040.27	1/4	4,692.55	1/4	4,331.30	1/4	3,955.97	1/4	3,569.49	1/4	3,182.08	1/4	2,794.67
1/2		1/2		1/2		1/2	5,033.15	1/2	4,685.15	1/2	4,323.62	1/2	3,947.99	1/2	3,561.42	1/2	3,174.01	1/2	2,786.60
3/4		3/4		3/4		3/4	5,026.04	3/4	4,677.76	3/4	4,315.94	3/4	3,940.01	3/4	3,553.35	3/4	3,165.94	3/4	2,778.53
2	2	2	2	2	2	2	5,018.92	2	4,670.36	2	4,308.26	2	3,932.03	2	3,545.28	2	3,157.87	2	2,770.45
1/4		1/4		1/4		1/4	5,011.80	1/4	4,662.97	1/4	4,300.59	1/4	3,924.05	1/4	3,537.21	1/4	3,149.80	1/4	2,762.38
1/2		1/2		1/2		1/2	5,004.66	1/2	4,655.55	1/2	4,292.89	1/2	3,916.05	1/2	3,529.14	1/2	3,141.73	1/2	2,754.31
3/4		3/4		3/4		3/4	4,997.52	3/4	4,648.12	3/4	4,285.19	3/4	3,908.04	3/4	3,521.07	3/4	3,133.65	3/4	2,746.24
3	3	3	3	3	3	3	4,990.38	3	4,640.70	3	4,277.49	3	3,900.04	3	3,513.00	3	3,125.58	3	2,738.17
1/4		1/4		1/4		1/4	4,983.24	1/4	4,633.28	1/4	4,269.78	1/4	3,892.03	1/4	3,504.92	1/4	3,117.51	1/4	2,730.10
1/2		1/2		1/2		1/2	4,976.08	1/2	4,625.83	1/2	4,262.06	1/2	3,884.01	1/2	3,496.85	1/2	3,109.44	1/2	2,722.03
3/4		3/4		3/4		3/4	4,968.92	3/4	4,618.39	3/4	4,254.34	3/4	3,875.98	3/4	3,488.78	3/4	3,101.37	3/4	2,713.96
4	4	4	4	4	4	4	4,961.76	4	4,610.94	4	4,246.62	4	3,867.96	4	3,480.71	4	3,093.30	4	2,705.89
1/4		1/4		1/4		1/4	4,954.60	1/4	4,603.49	1/4	4,238.89	1/4	3,859.93	1/4	3,472.64	1/4	3,085.23	1/4	2,697.81
1/2		1/2		1/2		1/2	4,947.42	1/2	4,596.03	1/2	4,231.14	1/2	3,851.88	1/2	3,464.57	1/2	3,077.16	1/2	2,689.74
3/4		3/4		3/4		3/4	4,940.23	3/4	4,588.56	3/4	4,223.39	3/4	3,843.84	3/4	3,456.50	3/4	3,069.09	3/4	2,681.67
5	5	5	5	5	5	5	4,933.05	5	4,581.09	5	4,215.65	5	3,835.79	5	3,448.43	5	3,061.01	5	2,673.60
1/4		1/4		1/4		1/4	4,925.87	1/4	4,573.62	1/4	4,207.90	1/4	3,827.74	1/4	3,440.36	1/4	3,052.94	1/4	2,665.53
1/2		1/2		1/2		1/2	4,918.66	1/2	4,566.14	1/2	4,200.11	1/2	3,819.68	1/2	3,432.28	1/2	3,044.87	1/2	2,657.46
3/4		3/4		3/4		3/4	5,237.29	3/4	4,911.45	3/4	4,558.65	3/4	4,192.33	3/4	3,811.61	3/4	3,424.21	3/4	3,036.80
6	6	6	6	6	6	6	4,904.23	6	4,551.16	6	4,184.55	6	3,803.55	6	3,416.14	6	3,028.73	6	2,641.32
1/4		1/4		1/4		1/4	5,228.91	1/4	4,897.02	1/4	4,543.67	1/4	3,795.48	1/4	3,408.07	1/4	3,020.66	1/4	2,633.25
1/2		1/2		1/2		1/2	5,223.36	1/2	4,889.79	1/2	4,536.16	1/2	3,787.41	1/2	3,400.00	1/2	3,012.59	1/2	2,625.17
3/4		3/4		3/4		3/4	5,217.81	3/4	4,882.55	3/4	4,528.65	3/4	3,779.34	3/4	3,391.93	3/4	3,004.52	3/4	2,617.10
7	7	7	7	7	7	7	5,212.27	7	4,875.32	7	4,521.13	7	4,153.32	7	3,771.27	7	3,383.86	7	2,996.45
1/4		1/4		1/4		1/4	5,206.72	1/4	4,868.08	1/4	4,513.62	1/4	4,145.51	1/4	3,763.20	1/4	3,375.79	1/4	2,988.37
1/2		1/2		1/2		1/2	5,200.14	1/2	4,860.82	1/2	4,506.08	1/2	4,137.67	1/2	3,755.13	1/2	3,367.72	1/2	2,980.30
3/4		3/4		3/4		3/4	5,193.56	3/4	4,853.57	3/4	4,498.55	3/4	4,129.83	3/4	3,747.06	3/4	3,359.65	3/4	2,972.23
8	8	8	8	8	8	8	5,186.98	8	4,846.31	8	4,491.01	8	4,122.00	8	3,738.99	8	3,351.57	8	2,964.16
1/4		1/4		1/4		1/4	5,180.40	1/4	4,839.06	1/4	4,483.47	1/4	4,114.16	1/4	3,730.92	1/4	3,343.50	1/4	2,956.09
1/2		1/2		1/2		1/2	5,173.45	1/2	4,831.78	1/2	4,475.91	1/2	4,106.30	1/2	3,722.84	1/2	3,335.43	1/2	2,948.02
3/4		3/4		3/4		3/4	5,166.51	3/4	4,824.50	3/4	4,468.35	3/4	4,098.43	3/4	3,714.77	3/4	3,327.36	3/4	2,939.95
9	9	9	9	9	9	9	5,159.57	9	4,817.22	9	4,460.78	9	4,090.57	9	3,706.70	9	3,319.29	9	2,931.88
1/4		1/4		1/4		1/4	5,152.62	1/4	4,809.95	1/4	4,453.22	1/4	4,082.70	1/4	3,698.63	1/4	3,311.22	1/4	2,923.81
1/2		1/2		1/2		1/2	5,145.65	1/2	4,802.65	1/2	4,445.64	1/2	4,074.82	1/2	3,690.56	1/2	3,303.15	1/2	2,915.73
3/4		3/4		3/4		3/4	5,138.68	3/4	4,795.35	3/4	4,438.06	3/4	4,066.93	3/4	3,682.49	3/4	3,295.08	3/4	2,907.66
10	10	10	10	10	10	10	5,131.72	10	4,788.05	10	4,430.47	10	4,059.04	10	3,674.42	10	3,287.01	10	2,899.59
1/4		1/4		1/4		1/4	5,124.75	1/4	4,780.75	1/4	4,422.89	1/4	4,051.15	1/4	3,666.35	1/4	3,278.93	1/4	2,891.52
1/2		1/2		1/2		1/2	5,117.76	1/2	4,773.42	1/2	4,415.28	1/2	4,043.24	1/2	3,658.28	1/2	3,270.86	1/2	2,883.45
3/4		3/4		3/4		3/4	5,110.77	3/4	4,766.09	3/4	4,407.68	3/4	4,035.33	3/4	3,650.20	3/4	3,262.79	3/4	2,875.38
11	11	11	11	11	11	11	5,103.78	11	4,758.77	11	4,400.07	11	4,027.42	11	3,642.13	11	3,254.72	11	2,867.31
1/4		1/4		1/4		1/4	5,096.79	1/4	4,751.44	1/4	4,392.46	1/4	4,019.51	1/4	3,634.06	1/4	3,246.65	1/4	2,859.24
1/2		1/2		1/2		1/2	5,089.75	1/2	4,744.09	1/2	4,384.83	1/2	4,011.58	1/2	3,625.99	1/2	3,238.58	1/2	2,851.17
3/4		3/4		3/4		3/4	5,082.71	3/4	4,736.74	3/4	4,377.20	3/4	4,003.65	3/4	3,617.92	3/4	3,230.51	3/4	2,843.09

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 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	2,447.57	0	2,060.91	0	1,676.65	0	1,289.15	0	902.11	0	523.19	0	137.44	0		0		0	
1/4	2,439.50	1/4	2,053.00	1/4	1,668.58	1/4	1,281.08	1/4	894.06	1/4	515.60	1/4	129.40	1/4		1/4		1/4	
1/2	2,431.42	1/2	2,045.10	1/2	1,660.51	1/2	1,273.00	1/2	886.01	1/2	507.77	1/2	121.37	1/2		1/2		1/2	
3/4	2,423.35	3/4	2,037.20	3/4	1,652.43	3/4	1,264.93	3/4	877.95	3/4	499.95	3/4	113.35	3/4		3/4		3/4	
1	2,415.28	1	2,029.30	1	1,644.36	1	1,256.86	1	869.90	1	492.12	1	105.33	1		1		1	
1/4	2,407.20	1/4	2,021.40	1/4	1,636.29	1/4	1,248.78	1/4	861.85	1/4	484.29	1/4	97.30	1/4		1/4		1/4	
1/2	2,399.13	1/2	2,013.50	1/2	1,628.21	1/2	1,240.71	1/2	853.79	1/2	476.22	1/2	89.31	1/2		1/2		1/2	
3/4	2,391.06	3/4	2,005.60	3/4	1,620.14	3/4	1,232.63	3/4	845.74	3/4	468.15	3/4	81.32	3/4		3/4		3/4	
2	2,382.98	2	1,997.70	2	1,612.07	2	1,224.56	2	837.69	2	460.08	2	73.33	2		2		2	
1/4	2,374.91	1/4	1,989.80	1/4	1,604.00	1/4	1,216.49	1/4	829.63	1/4	452.01	1/4	65.35	1/4		1/4		1/4	
1/2	2,366.84	1/2	1,981.89	1/2	1,595.93	1/2	1,208.41	1/2	821.58	1/2	443.94	1/2	58.00	1/2		1/2		1/2	
3/4	2,358.76	3/4	1,973.99	3/4	1,587.87	3/4	1,200.34	3/4	813.53	3/4	435.87	3/4	50.66	3/4		3/4		3/4	
3	2,350.69	3	1,966.09	3	1,579.80	3	1,192.27	3	805.47	3	427.81	3	43.32	3		3		3	
1/4	2,342.62	1/4	1,958.19	1/4	1,571.73	1/4	1,184.19	1/4	797.42	1/4	419.74	1/4	35.98	1/4		1/4		1/4	
1/2	2,334.54	1/2	1,950.29	1/2	1,563.66	1/2	1,176.12	1/2	789.35	1/2	411.67	1/2	30.60	1/2		1/2		1/2	
3/4	2,326.47	3/4	1,942.39	3/4	1,555.59	3/4	1,168.04	3/4	781.29	3/4	403.60	3/4	25.22	3/4		3/4		3/4	
4	2,318.40	4	1,934.49	4	1,547.51	4	1,159.97	4	773.23	4	395.53	4	19.85	4		4		4	
1/4	2,310.32	1/4	1,926.59	1/4	1,539.44	1/4	1,151.90	1/4	765.16	1/4	387.46	1/4	14.47	1/4		1/4		1/4	
1/2	2,302.25	1/2	1,918.60	1/2	1,531.37	1/2	1,143.82	1/2	757.09	1/2	379.39	1/2		1/2		1/2		1/2	
3/4	2,294.18	3/4	1,910.61	3/4	1,523.30	3/4	1,135.75	3/4	749.02	3/4	371.32	3/4		3/4		3/4		3/4	
5	2,286.10	5	1,902.62	5	1,515.22	5	1,127.67	5	740.95	5	363.25	5		5		5		5	
1/4	2,278.03	1/4	1,894.64	1/4	1,507.15	1/4	1,119.60	1/4	732.88	1/4	355.18	1/4		1/4		1/4		1/4	
1/2	2,269.95	1/2	1,886.56	1/2	1,499.07	1/2	1,111.54	1/2	724.81	1/2	347.11	1/2		1/2		1/2		1/2	
3/4	2,261.88	3/4	1,878.49	3/4	1,491.00	3/4	1,103.47	3/4	716.74	3/4	339.05	3/4		3/4		3/4		3/4	
6	2,253.81	6	1,870.42	6	1,482.93	6	1,095.41	6	708.67	6	330.98	6		6		6		6	
1/4	2,245.73	1/4	1,862.34	1/4	1,474.85	1/4	1,087.34	1/4	700.60	1/4	322.91	1/4		1/4		1/4		1/4	
1/2	2,237.66	1/2	1,854.27	1/2	1,466.78	1/2	1,079.29	1/2	692.53	1/2	314.84	1/2		1/2		1/2		1/2	
3/4	2,229.59	3/4	1,846.20	3/4	1,458.70	3/4	1,071.24	3/4	684.47	3/4	306.77	3/4		3/4		3/4		3/4	
7	2,221.51	7	1,838.12	7	1,450.63	7	1,063.18	7	676.40	7	298.70	7		7		7		7	
1/4	2,213.44	1/4	1,830.05	1/4	1,442.56	1/4	1,055.13	1/4	668.33	1/4	290.63	1/4		1/4		1/4		1/4	
1/2	2,205.37	1/2	1,821.98	1/2	1,434.48	1/2	1,047.08	1/2	660.50	1/2	282.56	1/2		1/2		1/2		1/2	
3/4	2,197.29	3/4	1,813.90	3/4	1,426.41	3/4	1,039.02	3/4	652.67	3/4	274.49	3/4		3/4		3/4		3/4	
8	2,189.22	8	1,805.83	8	1,418.33	8	1,030.97	8	644.84	8	266.42	8		8		8		8	
1/4	2,181.15	1/4	1,797.76	1/4	1,410.26	1/4	1,022.92	1/4	637.01	1/4	258.35	1/4		1/4		1/4		1/4	
1/2	2,173.07	1/2	1,789.68	1/2	1,402.19	1/2	1,014.86	1/2	629.43	1/2	250.29	1/2		1/2		1/2		1/2	
3/4	2,165.00	3/4	1,781.61	3/4	1,394.11	3/4	1,006.81	3/4	621.84	3/4	242.22	3/4		3/4		3/4		3/4	
9	2,156.93	9	1,773.53	9	1,386.04	9	998.76	9	614.25	9	234.15	9		9		9		9	
1/4	2,148.85	1/4	1,765.46	1/4	1,377.96	1/4	990.70	1/4	606.66	1/4	226.08	1/4		1/4		1/4		1/4	
1/2	2,140.78	1/2	1,757.39	1/2	1,369.89	1/2	982.65	1/2	599.07	1/2	218.01	1/2		1/2		1/2		1/2	
3/4	2,132.71	3/4	1,749.31	3/4	1,361.82	3/4	974.60	3/4	591.49	3/4	209.95	3/4		3/4		3/4		3/4	
10	2,124.63	10	1,741.24	10	1,353.74	10	966.54	10	583.90	10	201.88	10		10		10		10	
1/4	2,116.56	1/4	1,733.17	1/4	1,345.67	1/4	958.49	1/4	576.31	1/4	193.82	1/4		1/4		1/4		1/4	
1/2	2,108.57	1/2	1,725.09	1/2	1,337.60	1/2	950.43	1/2	568.72	1/2	185.76	1/2		1/2		1/2		1/2	
3/4	2,100.58	3/4	1,717.02	3/4	1,329.52	3/4	942.38	3/4	561.13	3/4	177.70	3/4		3/4		3/4		3/4	
11	2,092.60	11	1,708.95	11	1,321.45	11	934.33	11	553.54	11	169.64	11		11		11		11	
1/4	2,084.61	1/4	1,700.87	1/4	1,313.37	1/4	926.27	1/4	545.96	1/4	161.58	1/4		1/4		1/4		1/4	
1/2	2,076.71	1/2	1,692.80	1/2	1,305.30	1/2	918.22	1/2	538.37	1/2	153.54	1/2		1/2		1/2		1/2	
3/4	2,068.81	3/4	1,684.73	3/4	1,297.23	3/4	910.17	3/4	530.78	3/4	145.49	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

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	0	0	0	4,021.68	0	3,840.76	0	3,646.83	0	3,439.83	0	3,220.95	0	2,953.51	0	2,593.78		
1/4		1/4		1/4		1/4	4,018.08	1/4	3,836.85	1/4	3,642.65	1/4	3,435.37	1/4	3,216.33	1/4	2,946.01	1/4	2,586.29		
1/2		1/2		1/2		1/2	4,014.47	1/2	3,832.93	1/2	3,638.47	1/2	3,430.91	1/2	3,211.71	1/2	2,938.52	1/2	2,578.79		
3/4		3/4		3/4		3/4	4,010.87	3/4	3,829.01	3/4	3,634.29	3/4	3,426.46	3/4	3,207.10	3/4	2,931.02	3/4	2,571.30		
1	1	1	1	1	1	1	4,007.26	1	3,825.09	1	3,630.11	1	3,422.00	1	3,202.48	1	2,923.53	1	2,563.80		
1/4		1/4		1/4		1/4	4,003.63	1/4	3,821.15	1/4	3,625.89	1/4	3,417.52	1/4	3,197.86	1/4	2,916.04	1/4	2,556.31		
1/2		1/2		1/2		1/2	4,000.01	1/2	3,817.20	1/2	3,621.68	1/2	3,413.05	1/2	3,193.24	1/2	2,908.54	1/2	2,548.81		
3/4		3/4		3/4		3/4	3,996.38	3/4	3,813.26	3/4	3,617.47	3/4	3,408.57	3/4	3,188.63	3/4	2,901.05	3/4	2,541.32		
2	2	2	2	2	2	2	3,992.76	2	3,809.31	2	3,613.25	2	3,404.09	2	3,184.01	2	2,893.55	2	2,533.83		
1/4		1/4		1/4		1/4	3,989.06	1/4	3,805.35	1/4	3,609.01	1/4	3,399.60	1/4	3,179.40	1/4	2,886.06	1/4	2,526.33		
1/2		1/2		1/2		1/2	3,985.36	1/2	3,801.39	1/2	3,604.77	1/2	3,395.10	1/2	3,174.79	1/2	2,878.56	1/2	2,518.84		
3/4		3/4		3/4		3/4	3,981.66	3/4	3,797.42	3/4	3,600.53	3/4	3,390.60	3/4	3,170.19	3/4	2,871.07	3/4	2,511.34		
3	3	3	3	3	3	3	3,977.96	3	3,793.46	3	3,596.29	3	3,386.10	3	3,165.58	3	2,863.58	3	2,503.85		
1/4		1/4		1/4		1/4	3,974.23	1/4	3,789.48	1/4	3,592.03	1/4	3,381.59	1/4	3,160.97	1/4	2,856.08	1/4	2,496.35		
1/2		1/2		1/2		1/2	3,970.51	1/2	3,785.49	1/2	3,587.77	1/2	3,377.07	1/2	3,156.36	1/2	2,848.59	1/2	2,488.86		
3/4		3/4		3/4		3/4	3,966.79	3/4	3,781.51	3/4	3,583.51	3/4	3,372.55	3/4	3,151.75	3/4	2,841.09	3/4	2,481.37		
4	4	4	4	4	4	4	3,963.07	4	3,777.52	4	3,579.25	4	3,368.03	4	3,147.15	4	2,833.60	4	2,473.87		
1/4		1/4		1/4		1/4	3,959.32	1/4	3,773.52	1/4	3,574.97	1/4	3,363.48	1/4	3,142.54	1/4	2,826.10	1/4	2,466.38		
1/2		1/2		1/2		1/2	3,955.57	1/2	3,769.51	1/2	3,570.69	1/2	3,358.94	1/2	3,137.93	1/2	2,818.61	1/2	2,458.88		
3/4		3/4		3/4		3/4	3,951.82	3/4	3,765.51	3/4	3,566.41	3/4	3,354.39	3/4	3,133.32	3/4	2,811.12	3/4	2,451.39		
5	5	5	5	5	5	5	3,948.07	5	3,761.50	5	3,562.13	5	3,349.85	5	3,128.71	5	2,803.62	5	2,443.89		
1/4		1/4		1/4		1/4	3,944.31	1/4	3,757.47	1/4	3,557.83	1/4	3,345.28	1/4	3,124.10	1/4	2,796.13	1/4	2,436.40		
1/2		1/2		1/2		1/2	3,940.54	1/2	3,753.43	1/2	3,553.53	1/2	3,340.72	1/2	3,119.50	1/2	2,788.63	1/2	2,428.91		
3/4		3/4		3/4		3/4	3,936.77	3/4	3,749.40	3/4	3,549.23	3/4	3,336.15	3/4	3,114.89	3/4	2,781.14	3/4	2,421.41		
6	6	6	6	6	6	6	3,933.01	6	3,745.36	6	3,544.93	6	3,331.59	6	3,110.28	6	2,773.64	6	2,413.92		
1/4		1/4		1/4		1/4	3,929.22	1/4	3,741.31	1/4	3,540.60	1/4	3,327.00	1/4	3,105.67	1/4	2,766.15	1/4	2,406.42		
1/2		1/2		1/2		1/2	3,925.43	1/2	3,737.26	1/2	3,536.28	1/2	3,322.42	1/2	3,101.06	1/2	2,758.65	1/2	2,398.93		
3/4		3/4		3/4		3/4	3,921.65	3/4	3,733.21	3/4	3,531.96	3/4	3,317.83	3/4	3,096.46	3/4	2,751.16	3/4	2,391.43		
7	7	7	7	7	7	7	3,917.86	7	3,729.15	7	3,527.64	7	3,313.25	7	3,091.85	7	2,743.67	7	2,383.94		
1/4		1/4		1/4	4,069.54	1/4	3,914.05	1/4	3,725.08	1/4	3,523.29	1/4	3,308.64	1/4	3,087.24	1/4	2,736.17	1/4	2,376.45		
1/2		1/2		1/2	4,069.18	1/2	3,910.24	1/2	3,721.01	1/2	3,518.94	1/2	3,304.03	1/2	3,082.63	1/2	2,728.68	1/2	2,368.95		
3/4		3/4		3/4	4,068.81	3/4	3,906.43	3/4	3,716.94	3/4	3,514.59	3/4	3,299.43	3/4	3,078.02	3/4	2,721.18	3/4	2,361.46		
8	8	8	8	8	8	8	3,902.62	8	3,712.87	8	3,510.24	8	3,294.82	8	3,073.42	8	2,713.69	8	2,353.96		
1/4		1/4		1/4	4,066.82	1/4	3,898.79	1/4	3,708.77	1/4	3,505.87	1/4	3,290.20	1/4	3,065.92	1/4	2,706.19	1/4	2,346.47		
1/2		1/2		1/2	4,065.18	1/2	3,894.95	1/2	3,704.68	1/2	3,501.51	1/2	3,285.59	1/2	3,058.43	1/2	2,698.70	1/2	2,338.97		
3/4		3/4		3/4	4,063.55	3/4	3,891.11	3/4	3,700.59	3/4	3,497.14	3/4	3,280.97	3/4	3,050.93	3/4	2,691.21	3/4	2,331.48		
9	9	9	9	9	9	9	4,061.91	9	3,887.27	9	3,492.77	9	3,276.35	9	3,043.44	9	2,683.71	9	2,323.99		
1/4		1/4		1/4	4,059.00	1/4	3,883.42	1/4	3,692.38	1/4	3,488.38	1/4	3,271.73	1/4	3,035.94	1/4	2,676.22	1/4	2,316.49		
1/2		1/2		1/2	4,056.09	1/2	3,879.56	1/2	3,688.27	1/2	3,484.00	1/2	3,267.12	1/2	3,028.45	1/2	2,668.72	1/2	2,309.00		
3/4		3/4		3/4	4,053.18	3/4	3,875.70	3/4	3,684.15	3/4	3,479.61	3/4	3,262.50	3/4	3,020.96	3/4	2,661.23	3/4	2,301.50		
10	10	10	10	10	10	10	4,050.27	10	3,871.85	10	3,680.04	10	3,475.22	10	3,257.88	10	3,013.46	10	2,653.73	10	2,294.01
1/4		1/4		1/4	4,046.71	1/4	3,867.97	1/4	3,675.89	1/4	3,470.81	1/4	3,253.27	1/4	3,005.97	1/4	2,646.24	1/4	2,286.52		
1/2		1/2		1/2	4,043.15	1/2	3,864.10	1/2	3,671.75	1/2	3,466.40	1/2	3,248.65	1/2	2,998.47	1/2	2,638.75	1/2	2,279.03		
3/4		3/4		3/4	4,039.60	3/4	3,860.22	3/4	3,667.61	3/4	3,461.99	3/4	3,244.03	3/4	2,990.98	3/4	2,631.25	3/4	2,271.54		
11	11	11	11	11	11	11	4,036.04	11	3,856.35	11	3,663.47	11	3,457.58	11	3,239.42	11	2,983.48	11	2,623.76	11	2,264.05
1/4		1/4		1/4	4,032.45	1/4	3,852.45	1/4	3,659.31	1/4	3,453.14	1/4	3,234.80	1/4	2,975.99	1/4	2,616.26	1/4	2,256.56		
1/2		1/2		1/2	4,028.86	1/2	3,848.56	1/2	3,655.15	1/2	3,448.70	1/2	3,230.18	1/2	2,968.50	1/2	2,608.77	1/2	2,249.07		
3/4		3/4		3/4	4,025.27	3/4	3,844.66	3/4	3,650.99	3/4	3,444.26	3/4	3,225.56	3/4	2,961.00	3/4	2,601.27	3/4	2,241.57		

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'-06" OFF CENTERLINE AND 48'-06" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03"

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	2,234.08	0	1,874.19	0	1,515.98	0	1,159.29	0	808.26	0	459.61	0	105.16	0		0		0	
1/4	2,226.59	1/4	1,866.69	1/4	1,508.53	1/4	1,151.97	1/4	801.08	1/4	452.58	1/4	97.66	1/4		1/4		1/4	
1/2	2,219.09	1/2	1,859.18	1/2	1,501.07	1/2	1,144.65	1/2	793.89	1/2	445.56	1/2	90.16	1/2		1/2		1/2	
3/4	2,211.60	3/4	1,851.68	3/4	1,493.62	3/4	1,137.34	3/4	786.71	3/4	438.54	3/4	82.66	3/4		3/4		3/4	
1	2,204.10	1	1,844.17	1	1,486.16	1	1,130.02	1	779.53	1	431.51	1	75.16	1		1		1	
1/4	2,196.61	1/4	1,836.67	1/4	1,478.71	1/4	1,122.70	1/4	772.35	1/4	424.49	1/4	67.67	1/4		1/4		1/4	
1/2	2,189.11	1/2	1,829.16	1/2	1,471.25	1/2	1,115.38	1/2	765.16	1/2	417.47	1/2	60.18	1/2		1/2		1/2	
3/4	2,181.62	3/4	1,821.66	3/4	1,463.80	3/4	1,108.06	3/4	757.98	3/4	410.44	3/4	52.69	3/4		3/4		3/4	
2	2,174.12	2	1,814.15	2	1,456.35	2	1,100.74	2	750.80	2	403.42	2	45.20	2		2		2	
1/4	2,166.63	1/4	1,806.70	1/4	1,448.85	1/4	1,093.24	1/4	743.62	1/4	396.40	1/4	38.35	1/4		1/4		1/4	
1/2	2,159.14	1/2	1,799.24	1/2	1,441.35	1/2	1,085.74	1/2	736.44	1/2	389.37	1/2	31.50	1/2		1/2		1/2	
3/4	2,151.64	3/4	1,791.79	3/4	1,433.85	3/4	1,078.24	3/4	729.25	3/4	382.35	3/4	24.65	3/4		3/4		3/4	
3	2,144.15	3	1,784.33	3	1,426.35	3	1,070.74	3	722.07	3	375.32	3	17.81	3		3		3	
1/4	2,136.66	1/4	1,776.88	1/4	1,418.85	1/4	1,063.24	1/4	714.89	1/4	367.82	1/4		1/4		1/4		1/4	
1/2	2,129.16	1/2	1,769.43	1/2	1,411.35	1/2	1,055.74	1/2	707.71	1/2	360.31	1/2		1/2		1/2		1/2	
3/4	2,121.67	3/4	1,761.97	3/4	1,403.85	3/4	1,048.23	3/4	700.53	3/4	352.81	3/4		3/4		3/4		3/4	
4	2,114.18	4	1,754.52	4	1,396.35	4	1,040.73	4	693.34	4	345.31	4		4		4		4	
1/4	2,106.69	1/4	1,747.06	1/4	1,388.86	1/4	1,033.23	1/4	686.16	1/4	337.80	1/4		1/4		1/4		1/4	
1/2	2,099.21	1/2	1,739.61	1/2	1,381.36	1/2	1,025.73	1/2	678.98	1/2	330.30	1/2		1/2		1/2		1/2	
3/4	2,091.72	3/4	1,732.15	3/4	1,373.87	3/4	1,018.23	3/4	671.80	3/4	322.79	3/4		3/4		3/4		3/4	
5	2,084.24	5	1,724.70	5	1,366.38	5	1,010.73	5	664.62	5	315.29	5		5		5		5	
1/4	2,076.75	1/4	1,717.25	1/4	1,358.88	1/4	1,003.23	1/4	657.43	1/4	307.78	1/4		1/4		1/4		1/4	
1/2	2,069.26	1/2	1,709.79	1/2	1,351.39	1/2	995.73	1/2	650.25	1/2	300.28	1/2		1/2		1/2		1/2	
3/4	2,061.78	3/4	1,702.34	3/4	1,343.89	3/4	988.23	3/4	643.07	3/4	292.77	3/4		3/4		3/4		3/4	
6	2,054.29	6	1,694.88	6	1,336.40	6	980.73	6	635.89	6	285.27	6		6		6		6	
1/4	2,046.79	1/4	1,687.43	1/4	1,328.90	1/4	973.53	1/4	628.38	1/4	277.76	1/4		1/4		1/4		1/4	
1/2	2,039.29	1/2	1,679.97	1/2	1,321.40	1/2	966.34	1/2	620.87	1/2	270.26	1/2		1/2		1/2		1/2	
3/4	2,031.79	3/4	1,672.52	3/4	1,313.90	3/4	959.14	3/4	613.36	3/4	262.75	3/4		3/4		3/4		3/4	
7	2,024.29	7	1,665.07	7	1,306.40	7	951.95	7	605.85	7	255.25	7		7		7		7	
1/4	2,016.78	1/4	1,657.61	1/4	1,298.90	1/4	944.76	1/4	598.35	1/4	247.74	1/4		1/4		1/4		1/4	
1/2	2,009.28	1/2	1,650.16	1/2	1,291.40	1/2	937.56	1/2	590.84	1/2	240.24	1/2		1/2		1/2		1/2	
3/4	2,001.78	3/4	1,642.70	3/4	1,283.90	3/4	930.37	3/4	583.34	3/4	232.74	3/4		3/4		3/4		3/4	
8	1,994.28	8	1,635.25	8	1,276.40	8	923.17	8	575.83	8	225.23	8		8		8		8	
1/4	1,986.77	1/4	1,627.79	1/4	1,269.08	1/4	915.99	1/4	568.33	1/4	217.73	1/4		1/4		1/4		1/4	
1/2	1,979.27	1/2	1,620.34	1/2	1,261.76	1/2	908.81	1/2	560.82	1/2	210.22	1/2		1/2		1/2		1/2	
3/4	1,971.76	3/4	1,612.89	3/4	1,254.44	3/4	901.62	3/4	553.32	3/4	202.72	3/4		3/4		3/4		3/4	
9	1,964.26	9	1,605.43	9	1,247.12	9	894.44	9	545.81	9	195.21	9		9		9		9	
1/4	1,956.75	1/4	1,597.98	1/4	1,239.81	1/4	887.26	1/4	538.31	1/4	187.71	1/4		1/4		1/4		1/4	
1/2	1,949.25	1/2	1,590.52	1/2	1,232.49	1/2	880.08	1/2	530.81	1/2	180.20	1/2		1/2		1/2		1/2	
3/4	1,941.74	3/4	1,583.07	3/4	1,225.17	3/4	872.90	3/4	523.30	3/4	172.70	3/4		3/4		3/4		3/4	
10	1,934.24	10	1,575.61	10	1,217.85	10	865.71	10	515.80	10	165.19	10		10		10		10	
1/4	1,926.73	1/4	1,568.16	1/4	1,210.53	1/4	858.53	1/4	508.77	1/4	157.69	1/4		1/4		1/4		1/4	
1/2	1,919.23	1/2	1,560.71	1/2	1,203.21	1/2	851.35	1/2	501.75	1/2	150.18	1/2		1/2		1/2		1/2	
3/4	1,911.72	3/4	1,553.25	3/4	1,195.89	3/4	844.17	3/4	494.73	3/4	142.68	3/4		3/4		3/4		3/4	
11	1,904.22	11	1,545.80	11	1,188.57	11	836.99	11	487.70	11	135.17	11		11		11		11	
1/4	1,896.71	1/4	1,538.34	1/4	1,181.25	1/4	829.80	1/4	480.68	1/4	127.67	1/4		1/4		1/4		1/4	
1/2	1,889.20	1/2	1,530.89	1/2	1,173.93	1/2	822.62	1/2	473.65	1/2	120.17	1/2		1/2		1/2		1/2	
3/4	1,881.70	3/4	1,523.43	3/4	1,166.61	3/4	815.44	3/4	466.63	3/4	112.66	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-02 1/4"

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	0	0	0	4,032.02	0	3,850.58	0	3,656.26	0	3,448.84	0	3,229.88	0	2,953.81	0	2,593.46
1/4		1/4		1/4		1/4	4,028.42	1/4	3,846.67	1/4	3,652.09	1/4	3,444.39	1/4	3,225.28	1/4	2,946.30	1/4	2,585.95
1/2		1/2		1/2		1/2	4,024.81	1/2	3,842.73	1/2	3,647.88	1/2	3,439.92	1/2	3,220.67	1/2	2,938.79	1/2	2,578.45
3/4		3/4		3/4		3/4	4,021.19	3/4	3,838.79	3/4	3,643.68	3/4	3,435.45	3/4	3,216.06	3/4	2,931.28	3/4	2,570.94
1	1	1	1	1	1	1	4,017.57	1	3,834.86	1	3,639.47	1	3,430.99	1	3,211.45	1	2,923.78	1	2,563.43
1/4		1/4		1/4		1/4	4,013.96	1/4	3,830.92	1/4	3,635.27	1/4	3,426.52	1/4	3,206.84	1/4	2,916.27	1/4	2,555.92
1/2		1/2		1/2		1/2	4,010.27	1/2	3,826.96	1/2	3,631.04	1/2	3,422.03	1/2	3,202.24	1/2	2,908.76	1/2	2,548.42
3/4		3/4		3/4		3/4	4,006.57	3/4	3,823.01	3/4	3,626.80	3/4	3,417.54	3/4	3,197.64	3/4	2,901.26	3/4	2,540.91
2	2	2	2	2	2	2	4,002.88	2	3,819.06	2	3,622.57	2	3,413.05	2	3,193.04	2	2,893.75	2	2,533.40
1/4		1/4		1/4		1/4	3,999.19	1/4	3,815.10	1/4	3,618.34	1/4	3,408.56	1/4	3,188.44	1/4	2,886.24	1/4	2,525.90
1/2		1/2		1/2		1/2	3,995.48	1/2	3,811.13	1/2	3,614.08	1/2	3,404.05	1/2	3,183.84	1/2	2,878.73	1/2	2,518.39
3/4		3/4		3/4		3/4	3,991.76	3/4	3,807.15	3/4	3,609.83	3/4	3,399.54	3/4	3,179.24	3/4	2,871.23	3/4	2,510.88
3	3	3	3	3	3	3	3,988.05	3	3,803.17	3	3,605.58	3	3,395.03	3	3,174.64	3	2,863.72	3	2,503.37
1/4		1/4		1/4		1/4	3,984.34	1/4	3,799.20	1/4	3,601.33	1/4	3,390.52	1/4	3,170.04	1/4	2,856.21	1/4	2,495.87
1/2		1/2		1/2		1/2	3,980.60	1/2	3,795.20	1/2	3,597.06	1/2	3,385.98	1/2	3,165.44	1/2	2,848.70	1/2	2,488.36
3/4		3/4		3/4		3/4	3,976.86	3/4	3,791.20	3/4	3,592.79	3/4	3,381.45	3/4	3,160.85	3/4	2,841.20	3/4	2,480.85
4	4	4	4	4	4	4	3,973.12	4	3,787.21	4	3,588.52	4	3,376.91	4	3,156.25	4	2,833.69	4	2,473.34
1/4		1/4		1/4		1/4	3,969.38	1/4	3,783.21	1/4	3,584.25	1/4	3,372.37	1/4	3,151.65	1/4	2,826.18	1/4	2,465.84
1/2		1/2		1/2		1/2	3,965.62	1/2	3,779.19	1/2	3,579.95	1/2	3,367.82	1/2	3,147.05	1/2	2,818.68	1/2	2,458.33
3/4		3/4		3/4		3/4	3,961.86	3/4	3,775.16	3/4	3,575.66	3/4	3,363.26	3/4	3,142.45	3/4	2,811.17	3/4	2,450.82
5	5	5	5	5	5	5	3,958.10	5	3,771.13	5	3,571.37	5	3,358.70	5	3,137.85	5	2,803.66	5	2,443.32
1/4		1/4		1/4		1/4	3,954.34	1/4	3,767.11	1/4	3,567.08	1/4	3,354.15	1/4	3,133.25	1/4	2,796.15	1/4	2,435.81
1/2		1/2		1/2		1/2	3,950.56	1/2	3,763.06	1/2	3,562.76	1/2	3,349.57	1/2	3,128.65	1/2	2,788.65	1/2	2,428.30
3/4		3/4		3/4		3/4	3,946.79	3/4	3,759.02	3/4	3,558.45	3/4	3,344.99	3/4	3,124.05	3/4	2,781.14	3/4	2,420.79
6	6	6	6	6	6	6	3,943.01	6	3,754.97	6	3,554.14	6	3,340.42	6	3,119.45	6	2,773.63	6	2,413.29
1/4		1/4		1/4		1/4	3,939.23	1/4	3,750.93	1/4	3,549.82	1/4	3,335.84	1/4	3,114.85	1/4	2,766.13	1/4	2,405.78
1/2		1/2		1/2	4,090.52	1/2	3,935.43	1/2	3,746.87	1/2	3,545.48	1/2	3,331.24	1/2	3,110.25	1/2	2,758.62	1/2	2,398.27
3/4		3/4		3/4	4,090.17	3/4	3,931.63	3/4	3,742.80	3/4	3,541.14	3/4	3,326.64	3/4	3,105.65	3/4	2,751.11	3/4	2,390.77
7	7	7	7	7	7	7	4,089.81	7	3,927.83	7	3,738.74	7	3,536.80	7	3,322.05	7	3,101.05	7	2,743.60
1/4		1/4		1/4	4,089.45	1/4	3,924.03	1/4	3,734.68	1/4	3,532.46	1/4	3,317.45	1/4	3,096.45	1/4	2,736.10	1/4	2,375.75
1/2		1/2		1/2	4,087.82	1/2	3,920.20	1/2	3,730.59	1/2	3,528.10	1/2	3,312.84	1/2	3,088.94	1/2	2,728.59	1/2	2,368.24
3/4		3/4		3/4	4,086.19	3/4	3,916.37	3/4	3,726.51	3/4	3,523.74	3/4	3,308.23	3/4	3,081.44	3/4	2,721.08	3/4	2,360.74
8	8	8	8	8	8	8	4,084.57	8	3,912.54	8	3,722.42	8	3,519.38	8	3,303.62	8	3,073.93	8	2,713.58
1/4		1/4		1/4	4,082.94	1/4	3,908.71	1/4	3,718.34	1/4	3,515.03	1/4	3,299.01	1/4	3,066.42	1/4	2,706.07	1/4	2,345.72
1/2		1/2		1/2	4,080.04	1/2	3,904.86	1/2	3,714.23	1/2	3,510.65	1/2	3,294.40	1/2	3,058.91	1/2	2,698.56	1/2	2,338.22
3/4		3/4		3/4	4,077.14	3/4	3,901.01	3/4	3,710.13	3/4	3,506.27	3/4	3,289.80	3/4	3,051.40	3/4	2,691.05	3/4	2,330.71
9	9	9	9	9	9	9	4,074.23	9	3,897.17	9	3,706.02	9	3,501.88	9	3,285.19	9	3,043.90	9	2,683.55
1/4		1/4		1/4	4,071.33	1/4	3,893.32	1/4	3,701.92	1/4	3,497.50	1/4	3,280.58	1/4	3,036.39	1/4	2,676.04	1/4	2,315.69
1/2		1/2		1/2	4,067.78	1/2	3,889.45	1/2	3,697.78	1/2	3,493.10	1/2	3,275.97	1/2	3,028.88	1/2	2,668.53	1/2	2,308.19
3/4		3/4		3/4	4,064.23	3/4	3,885.59	3/4	3,693.65	3/4	3,488.70	3/4	3,271.36	3/4	3,021.37	3/4	2,661.02	3/4	2,300.69
10	10	10	10	10	10	10	4,060.68	10	3,881.72	10	3,689.52	10	3,484.30	10	3,266.75	10	3,013.86	10	2,653.52
1/4		1/4		1/4	4,057.13	1/4	3,877.85	1/4	3,685.38	1/4	3,479.90	1/4	3,262.14	1/4	3,006.36	1/4	2,646.01	1/4	2,285.68
1/2		1/2		1/2	4,053.55	1/2	3,873.97	1/2	3,681.23	1/2	3,475.47	1/2	3,257.54	1/2	2,998.85	1/2	2,638.50	1/2	2,278.18
3/4		3/4		3/4	4,049.97	3/4	3,870.08	3/4	3,677.08	3/4	3,471.04	3/4	3,252.93	3/4	2,991.34	3/4	2,631.00	3/4	2,270.67
11	11	11	11	11	11	11	4,046.39	11	3,866.19	11	3,672.93	11	3,466.61	11	3,248.32	11	2,983.83	11	2,623.49
1/4		1/4		1/4	4,042.81	1/4	3,862.30	1/4	3,668.78	1/4	3,462.18	1/4	3,243.71	1/4	2,976.33	1/4	2,615.98	1/4	2,255.67
1/2		1/2		1/2	4,039.22	1/2	3,858.39	1/2	3,664.60	1/2	3,457.73	1/2	3,239.10	1/2	2,968.82	1/2	2,608.47	1/2	2,248.16
3/4		3/4		3/4	4,035.62	3/4	3,854.48	3/4	3,660.43	3/4	3,453.28	3/4	3,234.49	3/4	2,961.31	3/4	2,600.97	3/4	2,240.65

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'-06" OFF CENTERLINE AND 48'-06" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-02 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	2,233.14	0	1,872.60	0	1,515.57	0	1,154.70	0	794.22	0	439.19	0	82.85	0		0		0	
1/4	2,225.63	1/4	1,865.08	1/4	1,508.05	1/4	1,147.18	1/4	786.72	1/4	432.16	1/4	75.34	1/4		1/4		1/4	
1/2	2,218.12	1/2	1,857.72	1/2	1,500.53	1/2	1,139.66	1/2	779.23	1/2	425.12	1/2	67.84	1/2		1/2		1/2	
3/4	2,210.62	3/4	1,850.36	3/4	1,493.01	3/4	1,132.14	3/4	771.73	3/4	418.09	3/4	60.34	3/4		3/4		3/4	
1	2,203.11	1	1,843.01	1	1,485.50	1	1,124.62	1	764.24	1	411.06	1	52.84	1		1		1	
1/4	2,195.60	1/4	1,835.65	1/4	1,477.98	1/4	1,117.10	1/4	756.74	1/4	404.02	1/4	45.34	1/4		1/4		1/4	
1/2	2,188.09	1/2	1,828.29	1/2	1,470.46	1/2	1,109.58	1/2	749.24	1/2	396.99	1/2	38.48	1/2		1/2		1/2	
3/4	2,180.59	3/4	1,820.93	3/4	1,462.94	3/4	1,102.07	3/4	741.75	3/4	389.96	3/4	31.62	3/4		3/4		3/4	
2	2,173.08	2	1,813.57	2	1,455.42	2	1,094.55	2	734.25	2	382.92	2	24.76	2		2		2	
1/4	2,165.58	1/4	1,806.22	1/4	1,447.90	1/4	1,087.03	1/4	726.76	1/4	375.89	1/4	17.91	1/4		1/4		1/4	
1/2	2,158.07	1/2	1,798.86	1/2	1,440.38	1/2	1,079.51	1/2	719.26	1/2	368.38	1/2		1/2		1/2		1/2	
3/4	2,150.56	3/4	1,791.50	3/4	1,432.86	3/4	1,071.99	3/4	711.76	3/4	360.86	3/4		3/4		3/4		3/4	
3	2,143.06	3	1,784.14	3	1,425.35	3	1,064.47	3	704.27	3	353.35	3		3		3		3	
1/4	2,135.55	1/4	1,776.78	1/4	1,417.83	1/4	1,056.95	1/4	696.77	1/4	345.83	1/4		1/4		1/4		1/4	
1/2	2,128.05	1/2	1,769.43	1/2	1,410.31	1/2	1,049.43	1/2	689.28	1/2	338.32	1/2		1/2		1/2		1/2	
3/4	2,120.56	3/4	1,762.07	3/4	1,402.80	3/4	1,041.91	3/4	681.78	3/4	330.80	3/4		3/4		3/4		3/4	
4	2,113.06	4	1,754.71	4	1,395.29	4	1,034.39	4	674.28	4	323.29	4		4		4		4	
1/4	2,105.56	1/4	1,747.35	1/4	1,387.77	1/4	1,026.87	1/4	666.79	1/4	315.77	1/4		1/4		1/4		1/4	
1/2	2,098.06	1/2	1,739.99	1/2	1,380.26	1/2	1,019.35	1/2	659.29	1/2	308.26	1/2		1/2		1/2		1/2	
3/4	2,090.56	3/4	1,732.64	3/4	1,372.75	3/4	1,011.84	3/4	651.80	3/4	300.75	3/4		3/4		3/4		3/4	
5	2,083.06	5	1,725.28	5	1,365.23	5	1,004.32	5	644.30	5	293.23	5		5		5		5	
1/4	2,075.56	1/4	1,717.92	1/4	1,357.72	1/4	996.80	1/4	636.80	1/4	285.72	1/4		1/4		1/4		1/4	
1/2	2,068.05	1/2	1,710.56	1/2	1,350.20	1/2	989.28	1/2	629.28	1/2	278.20	1/2		1/2		1/2		1/2	
3/4	2,060.53	3/4	1,703.21	3/4	1,342.68	3/4	981.76	3/4	621.77	3/4	270.69	3/4		3/4		3/4		3/4	
6	2,053.02	6	1,695.85	6	1,335.16	6	974.24	6	614.25	6	263.17	6		6		6		6	
1/4	2,045.50	1/4	1,688.49	1/4	1,327.64	1/4	966.72	1/4	606.73	1/4	255.66	1/4		1/4		1/4		1/4	
1/2	2,037.99	1/2	1,680.97	1/2	1,320.12	1/2	959.20	1/2	599.21	1/2	248.15	1/2		1/2		1/2		1/2	
3/4	2,030.47	3/4	1,673.45	3/4	1,312.60	3/4	951.68	3/4	591.70	3/4	240.63	3/4		3/4		3/4		3/4	
7	2,022.96	7	1,665.93	7	1,305.08	7	944.16	7	584.18	7	233.12	7		7		7		7	
1/4	2,015.44	1/4	1,658.42	1/4	1,297.56	1/4	936.64	1/4	576.67	1/4	225.60	1/4		1/4		1/4		1/4	
1/2	2,007.93	1/2	1,650.90	1/2	1,290.05	1/2	929.15	1/2	569.16	1/2	218.09	1/2		1/2		1/2		1/2	
3/4	2,000.41	3/4	1,643.38	3/4	1,282.53	3/4	921.65	3/4	561.64	3/4	210.57	3/4		3/4		3/4		3/4	
8	1,992.89	8	1,635.86	8	1,275.01	8	914.16	8	554.13	8	203.06	8		8		8		8	
1/4	1,985.37	1/4	1,628.34	1/4	1,267.49	1/4	906.66	1/4	546.61	1/4	195.54	1/4		1/4		1/4		1/4	
1/2	1,977.85	1/2	1,620.82	1/2	1,259.97	1/2	899.16	1/2	539.10	1/2	188.03	1/2		1/2		1/2		1/2	
3/4	1,970.34	3/4	1,613.31	3/4	1,252.45	3/4	891.67	3/4	531.59	3/4	180.52	3/4		3/4		3/4		3/4	
9	1,962.82	9	1,605.79	9	1,244.93	9	884.17	9	524.07	9	173.00	9		9		9		9	
1/4	1,955.30	1/4	1,598.27	1/4	1,237.41	1/4	876.68	1/4	516.56	1/4	165.49	1/4		1/4		1/4		1/4	
1/2	1,947.78	1/2	1,590.75	1/2	1,229.89	1/2	869.18	1/2	509.52	1/2	157.97	1/2		1/2		1/2		1/2	
3/4	1,940.26	3/4	1,583.23	3/4	1,222.37	3/4	861.68	3/4	502.49	3/4	150.46	3/4		3/4		3/4		3/4	
10	1,932.74	10	1,575.71	10	1,214.85	10	854.19	10	495.46	10	142.94	10		10		10		10	
1/4	1,925.23	1/4	1,568.20	1/4	1,207.33	1/4	846.69	1/4	488.42	1/4	135.43	1/4		1/4		1/4		1/4	
1/2	1,917.71	1/2	1,560.68	1/2	1,199.82	1/2	839.20	1/2	481.39	1/2	127.92	1/2		1/2		1/2		1/2	
3/4	1,910.19	3/4	1,553.16	3/4	1,192.30	3/4	831.70	3/4	474.36	3/4	120.40	3/4		3/4		3/4		3/4	
11	1,902.67	11	1,545.64	11	1,184.78	11	824.20	11	467.32	11	112.89	11		11		11		11	
1/4	1,895.15	1/4	1,538.12	1/4	1,177.26	1/4	816.71	1/4	460.29	1/4	105.37	1/4		1/4		1/4		1/4	
1/2	1,887.63	1/2	1,530.60	1/2	1,169.74	1/2	809.21	1/2	453.26	1/2	97.86	1/2		1/2		1/2		1/2	
3/4	1,880.12	3/4	1,523.09	3/4	1,162.22	3/4	801.72	3/4	446.22	3/4	90.36	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

INNAGE TRIM TABLE
2" DIAMETER

	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	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
3 PORT	- 00-1/2	00-1/2	- 01-0/8	01-0/8	- 01-1/2	01-1/2	- 02-0/8	02-0/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8
3 STBD	- 00-1/2	00-1/2	- 01-0/8	01-0/8	- 01-1/2	01-1/2	- 02-0/8	02-0/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8

(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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/4'

LENGTH BETWEEN DRAFT MARKS: 173-06"

August 15, 2015

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

<http://www.pmacorp.net>



BARGE "KIRBY 28710"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,297.78	0	3,621.74	0	3,933.43	0	4,233.58	0		0		0		0		0		0	
1/4	3,304.64	1/4	3,628.34	1/4	3,939.80	1/4	4,239.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,311.50	1/2	3,634.94	1/2	3,946.16	1/2	4,245.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,318.36	3/4	3,641.55	3/4	3,952.53	3/4	4,251.95	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,325.22	1	3,648.15	1	3,958.89	1	4,258.07	1		1		1		1		1		1	
1/4	3,332.07	1/4	3,654.73	1/4	3,965.24	1/4	4,264.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,338.91	1/2	3,661.31	1/2	3,971.58	1/2	4,270.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,345.75	3/4	3,667.90	3/4	3,977.93	3/4	4,276.38	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,352.59	2	3,674.48	2	3,984.27	2	4,282.48	2		2		2		2		2		2	
1/4	3,359.42	1/4	3,681.04	1/4	3,990.59	1/4	4,288.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,366.24	1/2	3,687.61	1/2	3,996.92	1/2	4,294.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,373.06	3/4	3,694.17	3/4	4,003.24	3/4	4,300.73	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,379.88	3	3,700.74	3	4,009.56	3	4,306.82	3		3		3		3		3		3	
1/4	3,386.68	1/4	3,707.28	1/4	4,015.86	1/4	4,312.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,393.48	1/2	3,713.83	1/2	4,022.16	1/2	4,318.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,400.28	3/4	3,720.38	3/4	4,028.47	3/4	4,325.00	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,407.08	4	3,726.92	4	4,034.77	4	4,331.07	4		4		4		4		4		4	
1/4	3,413.86	1/4	3,733.45	1/4	4,041.05	1/4	4,337.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,420.64	1/2	3,739.97	1/2	4,047.34	1/2	4,343.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,427.42	3/4	3,746.50	3/4	4,053.62	3/4	4,349.13	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,434.20	5	3,753.02	5	4,059.90	5	4,355.15	5		5		5		5		5		5	
1/4	3,440.96	1/4	3,759.53	1/4	4,066.17	1/4	4,361.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,447.72	1/2	3,766.03	1/2	4,072.43	1/2	4,367.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,454.48	3/4	3,772.53	3/4	4,078.69	3/4	4,373.08	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,461.24	6	3,779.03	6	4,084.96	6	4,379.06	6		6		6		6		6		6	
1/4	3,467.99	1/4	3,785.52	1/4	4,091.20	1/4	4,385.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,474.73	1/2	3,792.00	1/2	4,097.44	1/2	4,390.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,481.48	3/4	3,798.48	3/4	4,103.68	3/4	4,396.94	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,488.22	7	3,804.97	7	4,109.92	7	4,402.91	7		7		7		7		7		7	
1/4	3,494.94	1/4	3,811.43	1/4	4,116.14	1/4	4,408.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,501.66	1/2	3,817.89	1/2	4,122.36	1/2	4,414.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,508.39	3/4	3,824.36	3/4	4,128.59	3/4	4,420.73	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,515.11	8	3,830.82	8	4,134.81	8	4,426.67	8		8		8		8		8		8	
1/4	3,521.81	1/4	3,837.27	1/4	4,141.01	1/4	4,432.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,528.51	1/2	3,843.71	1/2	4,147.21	1/2	4,437.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,535.21	3/4	3,850.16	3/4	4,153.42	3/4	4,443.55	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,541.91	9	3,856.60	9	4,159.62	9	4,449.18	9		9		9		9		9		9	
1/4	3,548.59	1/4	3,863.02	1/4	4,165.80	1/4	4,453.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,555.27	1/2	3,869.44	1/2	4,171.99	1/2	4,458.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,561.95	3/4	3,875.86	3/4	4,178.18	3/4	4,463.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,568.63	10	3,882.29	10	4,184.36	10	4,468.16	10		10		10		10		10		10	
1/4	3,575.28	1/4	3,888.69	1/4	4,190.53	1/4	4,471.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,581.93	1/2	3,895.09	1/2	4,196.69	1/2	4,475.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,588.59	3/4	3,901.49	3/4	4,202.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,595.24	11	3,907.89	11	4,209.02	11		11		11		11		11		11		11	
1/4	3,601.87	1/4	3,914.28	1/4	4,215.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,608.49	1/2	3,920.66	1/2	4,221.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,615.12	3/4	3,927.05	3/4	4,227.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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BARGE "KIRBY 28710"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,308.78	0	3,633.73	0	3,946.41	0	4,247.55	0		0		0		0		0		0	
1/4	3,315.66	1/4	3,640.35	1/4	3,952.79	1/4	4,253.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,322.54	1/2	3,646.97	1/2	3,959.18	1/2	4,259.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,329.42	3/4	3,653.60	3/4	3,965.57	3/4	4,265.97	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,336.30	1	3,660.22	1	3,971.95	1	4,272.12	1		1		1		1		1		1	
1/4	3,343.17	1/4	3,666.82	1/4	3,978.32	1/4	4,278.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,350.03	1/2	3,673.43	1/2	3,984.68	1/2	4,284.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,356.89	3/4	3,680.03	3/4	3,991.05	3/4	4,290.49	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,363.76	2	3,686.63	2	3,997.41	2	4,296.61	2		2		2		2		2		2	
1/4	3,370.60	1/4	3,693.22	1/4	4,003.76	1/4	4,302.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,377.44	1/2	3,699.80	1/2	4,010.10	1/2	4,308.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,384.28	3/4	3,706.39	3/4	4,016.44	3/4	4,314.93	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,391.12	3	3,712.97	3	4,022.78	3	4,321.03	3		3		3		3		3		3	
1/4	3,397.95	1/4	3,719.54	1/4	4,029.11	1/4	4,327.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,404.77	1/2	3,726.11	1/2	4,035.43	1/2	4,333.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,411.59	3/4	3,732.67	3/4	4,041.75	3/4	4,339.28	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,418.41	4	3,739.24	4	4,048.07	4	4,345.36	4		4		4		4		4		4	
1/4	3,425.21	1/4	3,745.79	1/4	4,054.38	1/4	4,351.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,432.01	1/2	3,752.33	1/2	4,060.68	1/2	4,357.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,438.81	3/4	3,758.88	3/4	4,066.99	3/4	4,363.48	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,445.61	5	3,765.42	5	4,073.29	5	4,369.52	5		5		5		5		5		5	
1/4	3,452.39	1/4	3,771.95	1/4	4,079.58	1/4	4,375.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,459.17	1/2	3,778.47	1/2	4,085.86	1/2	4,381.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,465.95	3/4	3,784.99	3/4	4,092.15	3/4	4,387.52	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,472.74	6	3,791.52	6	4,098.43	6	4,393.52	6		6		6		6		6		6	
1/4	3,479.50	1/4	3,798.02	1/4	4,104.69	1/4	4,399.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,486.26	1/2	3,804.52	1/2	4,110.95	1/2	4,405.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,493.03	3/4	3,811.03	3/4	4,117.21	3/4	4,411.47	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,499.79	7	3,817.53	7	4,123.48	7	4,417.45	7		7		7		7		7		7	
1/4	3,506.54	1/4	3,824.01	1/4	4,129.72	1/4	4,423.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,513.28	1/2	3,830.50	1/2	4,135.96	1/2	4,429.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,520.02	3/4	3,836.99	3/4	4,142.20	3/4	4,435.33	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,526.77	8	3,843.47	8	4,148.44	8	4,441.29	8		8		8		8		8		8	
1/4	3,533.49	1/4	3,849.94	1/4	4,154.67	1/4	4,446.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,540.21	1/2	3,856.40	1/2	4,160.89	1/2	4,452.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,546.93	3/4	3,862.86	3/4	4,167.11	3/4	4,458.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,553.65	9	3,869.33	9	4,173.34	9	4,463.88	9		9		9		9		9		9	
1/4	3,560.35	1/4	3,875.77	1/4	4,179.54	1/4	4,468.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,567.05	1/2	3,882.21	1/2	4,185.75	1/2	4,473.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,573.75	3/4	3,888.66	3/4	4,191.96	3/4	4,478.17	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,580.45	10	3,895.10	10	4,198.16	10	4,482.94	10		10		10		10		10		10	
1/4	3,587.12	1/4	3,901.52	1/4	4,204.35	1/4	4,486.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,593.80	1/2	3,907.94	1/2	4,210.53	1/2	4,490.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,600.47	3/4	3,914.37	3/4	4,216.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,607.15	11	3,920.79	11	4,222.90	11		11		11		11		11		11		11	
1/4	3,613.79	1/4	3,927.19	1/4	4,229.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,620.44	1/2	3,933.60	1/2	4,235.22	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,627.08	3/4	3,940.00	3/4	4,241.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

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



BARGE "KIRBY 28710"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	3,852.80	0	4,232.84	0	4,598.52	0	4,950.70	0		0		0		0		0		0	
1/4	3,860.85	1/4	4,240.59	1/4	4,605.99	1/4	4,957.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,868.90	1/2	4,248.33	1/2	4,613.46	1/2	4,965.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,876.95	3/4	4,256.08	3/4	4,620.93	3/4	4,972.25	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,884.99	1	4,263.82	1	4,628.40	1	4,979.44	1		1		1		1		1		1	
1/4	3,893.02	1/4	4,271.55	1/4	4,635.84	1/4	4,986.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,901.05	1/2	4,279.27	1/2	4,643.29	1/2	4,993.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.07	3/4	4,286.99	3/4	4,650.73	3/4	5,000.92	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,917.10	2	4,294.71	2	4,658.17	2	5,008.09	2		2		2		2		2		2	
1/4	3,925.10	1/4	4,302.42	1/4	4,665.59	1/4	5,015.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,933.11	1/2	4,310.12	1/2	4,673.01	1/2	5,022.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,941.11	3/4	4,317.82	3/4	4,680.43	3/4	5,029.50	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,949.11	3	4,325.52	3	4,687.84	3	5,036.64	3		3		3		3		3		3	
1/4	3,957.09	1/4	4,333.20	1/4	4,695.24	1/4	5,043.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,965.06	1/2	4,340.88	1/2	4,702.63	1/2	5,050.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,973.04	3/4	4,348.56	3/4	4,710.03	3/4	5,057.98	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,981.02	4	4,356.24	4	4,717.42	4	5,065.10	4		4		4		4		4		4	
1/4	3,988.97	1/4	4,363.90	1/4	4,724.79	1/4	5,072.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,996.92	1/2	4,371.55	1/2	4,732.17	1/2	5,079.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,004.88	3/4	4,379.21	3/4	4,739.54	3/4	5,086.28	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,012.83	5	4,386.86	5	4,746.92	5	5,093.35	5		5		5		5		5		5	
1/4	4,020.76	1/4	4,394.49	1/4	4,754.26	1/4	5,100.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,028.69	1/2	4,402.12	1/2	4,761.61	1/2	5,107.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,036.63	3/4	4,409.75	3/4	4,768.96	3/4	5,114.38	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,044.56	6	4,417.38	6	4,776.31	6	5,121.39	6		6		6		6		6		6	
1/4	4,052.47	1/4	4,424.98	1/4	4,783.63	1/4	5,128.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,060.38	1/2	4,432.59	1/2	4,790.96	1/2	5,135.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,068.29	3/4	4,440.19	3/4	4,798.28	3/4	5,142.37	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,076.20	7	4,447.80	7	4,805.60	7	5,149.36	7		7		7		7		7		7	
1/4	4,084.09	1/4	4,455.38	1/4	4,812.90	1/4	5,156.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,091.97	1/2	4,462.97	1/2	4,820.20	1/2	5,163.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,099.86	3/4	4,470.55	3/4	4,827.50	3/4	5,170.25	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,107.75	8	4,478.14	8	4,834.80	8	5,177.22	8		8		8		8		8		8	
1/4	4,115.61	1/4	4,485.70	1/4	4,842.08	1/4	5,183.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,123.47	1/2	4,493.26	1/2	4,849.36	1/2	5,190.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,131.33	3/4	4,500.82	3/4	4,856.64	3/4	5,197.02	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,139.18	9	4,508.38	9	4,863.92	9	5,203.63	9		9		9		9		9		9	
1/4	4,147.02	1/4	4,515.91	1/4	4,871.17	1/4	5,209.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,154.86	1/2	4,523.45	1/2	4,878.43	1/2	5,214.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,162.69	3/4	4,530.98	3/4	4,885.69	3/4	5,220.33	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,170.53	10	4,538.52	10	4,892.95	10	5,225.89	10		10		10		10		10		10	
1/4	4,178.34	1/4	4,546.03	1/4	4,900.18	1/4	5,230.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,186.14	1/2	4,553.54	1/2	4,907.42	1/2	5,234.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,193.95	3/4	4,561.05	3/4	4,914.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,201.75	11	4,568.56	11	4,921.88	11		11		11		11		11		11		11	
1/4	4,209.53	1/4	4,576.05	1/4	4,929.09	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.30	1/2	4,583.54	1/2	4,936.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.07	3/4	4,591.03	3/4	4,943.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
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BARGE "KIRBY 28710"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	14.47	0	387.46	0	765.16	0	1,151.90	0	1,539.44	0	1,926.59	0	2,310.32	0	2,697.81	0	3,085.23	0	3,472.64
1/4	19.85	1/4	395.53	1/4	773.23	1/4	1,159.97	1/4	1,547.51	1/4	1,934.49	1/4	2,318.40	1/4	2,705.89	1/4	3,093.30	1/4	3,480.71
1/2	25.22	1/2	403.60	1/2	781.29	1/2	1,168.04	1/2	1,555.59	1/2	1,942.39	1/2	2,326.47	1/2	2,713.96	1/2	3,101.37	1/2	3,488.78
3/4	30.60	3/4	411.67	3/4	789.35	3/4	1,176.12	3/4	1,563.66	3/4	1,950.29	3/4	2,334.54	3/4	2,722.03	3/4	3,109.44	3/4	3,496.85
1	35.98	1	419.74	1	797.42	1	1,184.19	1	1,571.73	1	1,958.19	1	2,342.62	1	2,730.10	1	3,117.51	1	3,504.92
1/4	43.32	1/4	427.81	1/4	805.47	1/4	1,192.27	1/4	1,579.80	1/4	1,966.09	1/4	2,350.69	1/4	2,738.17	1/4	3,125.58	1/4	3,513.00
1/2	50.66	1/2	435.87	1/2	813.53	1/2	1,200.34	1/2	1,587.87	1/2	1,973.99	1/2	2,358.76	1/2	2,746.24	1/2	3,133.65	1/2	3,521.07
3/4	58.00	3/4	443.94	3/4	821.58	3/4	1,208.41	3/4	1,595.93	3/4	1,981.89	3/4	2,366.84	3/4	2,754.31	3/4	3,141.73	3/4	3,529.14
2	65.35	2	452.01	2	829.63	2	1,216.49	2	1,604.00	2	1,989.80	2	2,374.91	2	2,762.38	2	3,149.80	2	3,537.21
1/4	73.33	1/4	460.08	1/4	837.69	1/4	1,224.56	1/4	1,612.07	1/4	1,997.70	1/4	2,382.98	1/4	2,770.45	1/4	3,157.87	1/4	3,545.28
1/2	81.32	1/2	468.15	1/2	845.74	1/2	1,232.63	1/2	1,620.14	1/2	2,005.60	1/2	2,391.06	1/2	2,778.53	1/2	3,165.94	1/2	3,553.35
3/4	89.31	3/4	476.22	3/4	853.79	3/4	1,240.71	3/4	1,628.21	3/4	2,013.50	3/4	2,399.13	3/4	2,786.60	3/4	3,174.01	3/4	3,561.42
3	97.30	3	484.29	3	861.85	3	1,248.78	3	1,636.29	3	2,021.40	3	2,407.20	3	2,794.67	3	3,182.08	3	3,569.49
1/4	105.33	1/4	492.12	1/4	869.90	1/4	1,256.86	1/4	1,644.36	1/4	2,029.30	1/4	2,415.28	1/4	2,802.74	1/4	3,190.15	1/4	3,577.56
1/2	113.35	1/2	499.95	1/2	877.95	1/2	1,264.93	1/2	1,652.43	1/2	2,037.20	1/2	2,423.35	1/2	2,810.81	1/2	3,198.22	1/2	3,585.64
3/4	121.37	3/4	507.77	3/4	886.01	3/4	1,273.00	3/4	1,660.51	3/4	2,045.10	3/4	2,431.42	3/4	2,818.88	3/4	3,206.29	3/4	3,593.71
4	129.40	4	515.60	4	894.06	4	1,281.08	4	1,668.58	4	2,053.00	4	2,439.50	4	2,826.95	4	3,214.37	4	3,601.78
1/4	137.44	1/4	523.19	1/4	902.11	1/4	1,289.15	1/4	1,676.65	1/4	2,060.91	1/4	2,447.57	1/4	2,835.02	1/4	3,222.44	1/4	3,609.85
1/2	145.49	1/2	530.78	1/2	910.17	1/2	1,297.23	1/2	1,684.73	1/2	2,068.81	1/2	2,455.65	1/2	2,843.09	1/2	3,230.51	1/2	3,617.92
3/4	153.54	3/4	538.37	3/4	918.22	3/4	1,305.30	3/4	1,692.80	3/4	2,076.71	3/4	2,463.72	3/4	2,851.17	3/4	3,238.58	3/4	3,625.99
5	161.58	5	545.96	5	926.27	5	1,313.37	5	1,700.87	5	2,084.61	5	2,471.79	5	2,859.24	5	3,246.65	5	3,634.06
1/4	169.64	1/4	553.54	1/4	934.33	1/4	1,321.45	1/4	1,708.95	1/4	2,092.60	1/4	2,479.87	1/4	2,867.31	1/4	3,254.72	1/4	3,642.13
1/2	177.70	1/2	561.13	1/2	942.38	1/2	1,329.52	1/2	1,717.02	1/2	2,100.58	1/2	2,487.94	1/2	2,875.38	1/2	3,262.79	1/2	3,650.20
3/4	185.76	3/4	568.72	3/4	950.43	3/4	1,337.60	3/4	1,725.09	3/4	2,108.57	3/4	2,496.01	3/4	2,883.45	3/4	3,270.86	3/4	3,658.28
6	193.82	6	576.31	6	958.49	6	1,345.67	6	1,733.17	6	2,116.56	6	2,504.09	6	2,891.52	6	3,278.93	6	3,666.35
1/4	201.88	1/4	583.90	1/4	966.54	1/4	1,353.74	1/4	1,741.24	1/4	2,124.63	1/4	2,512.16	1/4	2,899.59	1/4	3,287.01	1/4	3,674.42
1/2	209.95	1/2	591.49	1/2	974.60	1/2	1,361.82	1/2	1,749.31	1/2	2,132.71	1/2	2,520.23	1/2	2,907.66	1/2	3,295.08	1/2	3,682.49
3/4	218.01	3/4	599.07	3/4	982.65	3/4	1,369.89	3/4	1,757.39	3/4	2,140.78	3/4	2,528.31	3/4	2,915.73	3/4	3,303.15	3/4	3,690.56
7	226.08	7	606.66	7	990.70	7	1,377.96	7	1,765.46	7	2,148.85	7	2,536.38	7	2,923.81	7	3,311.22	7	3,698.63
1/4	234.15	1/4	614.25	1/4	998.76	1/4	1,386.04	1/4	1,773.53	1/4	2,156.93	1/4	2,544.45	1/4	2,931.88	1/4	3,319.29	1/4	3,706.70
1/2	242.22	1/2	621.84	1/2	1,006.81	1/2	1,394.11	1/2	1,781.61	1/2	2,165.00	1/2	2,552.53	1/2	2,939.95	1/2	3,327.36	1/2	3,714.77
3/4	250.29	3/4	629.43	3/4	1,014.86	3/4	1,402.19	3/4	1,789.68	3/4	2,173.07	3/4	2,560.60	3/4	2,948.02	3/4	3,335.43	3/4	3,722.84
8	258.35	8	637.01	8	1,022.92	8	1,410.26	8	1,797.76	8	2,181.15	8	2,568.67	8	2,956.09	8	3,343.50	8	3,730.92
1/4	266.42	1/4	644.84	1/4	1,030.97	1/4	1,418.33	1/4	1,805.83	1/4	2,189.22	1/4	2,576.75	1/4	2,964.16	1/4	3,351.57	1/4	3,738.99
1/2	274.49	1/2	652.67	1/2	1,039.02	1/2	1,426.41	1/2	1,813.90	1/2	2,197.29	1/2	2,584.82	1/2	2,972.23	1/2	3,359.65	1/2	3,747.06
3/4	282.56	3/4	660.50	3/4	1,047.08	3/4	1,434.48	3/4	1,821.98	3/4	2,205.37	3/4	2,592.89	3/4	2,980.30	3/4	3,367.72	3/4	3,755.13
9	290.63	9	668.33	9	1,055.13	9	1,442.56	9	1,830.05	9	2,213.44	9	2,600.96	9	2,988.37	9	3,375.79	9	3,763.20
1/4	298.70	1/4	676.40	1/4	1,063.18	1/4	1,450.63	1/4	1,838.12	1/4	2,221.51	1/4	2,609.03	1/4	2,996.45	1/4	3,383.86	1/4	3,771.27
1/2	306.77	1/2	684.47	1/2	1,071.24	1/2	1,458.70	1/2	1,846.20	1/2	2,229.59	1/2	2,617.10	1/2	3,004.52	1/2	3,391.93	1/2	3,779.34
3/4	314.84	3/4	692.53	3/4	1,079.29	3/4	1,466.78	3/4	1,854.27	3/4	2,237.66	3/4	2,625.18	3/4	3,012.59	3/4	3,400.00	3/4	3,787.41
10	322.91	10	700.60	10	1,087.34	10	1,474.85	10	1,862.34	10	2,245.73	10	2,633.25	10	3,020.66	10	3,408.07	10	3,795.48
1/4	330.98	1/4	708.67	1/4	1,095.41	1/4	1,482.93	1/4	1,870.42	1/4	2,253.81	1/4	2,641.32	1/4	3,028.73	1/4	3,416.14	1/4	3,803.55
1/2	339.05	1/2	716.74	1/2	1,103.47	1/2	1,491.00	1/2	1,878.49	1/2	2,261.88	1/2	2,649.39	1/2	3,036.80	1/2	3,424.21	1/2	3,811.61
3/4	347.11	3/4	724.81	3/4	1,111.54	3/4	1,499.07	3/4	1,886.56	3/4	2,269.95	3/4	2,657.46	3/4	3,044.87	3/4	3,432.29	3/4	3,819.68
11	355.18	11	732.88	11	1,119.60	11	1,507.15	11	1,894.64	11	2,278.03	11	2,665.53	11	3,052.94	11	3,440.36	11	3,827.74
1/4	363.25	1/4	740.95	1/4	1,127.67	1/4	1,515.22	1/4	1,902.62	1/4	2,286.10	1/4	2,673.60	1/4	3,061.01	1/4	3,448.43	1/4	3,835.79
1/2	371.32	1/2	749.02	1/2	1,135.75	1/2	1,523.30	1/2	1,910.61	1/2	2,294.18	1/2	2,681.67	1/2	3,069.09	1/2	3,456.50	1/2	3,843.84
3/4	379.39	3/4	757.09	3/4	1,143.82	3/4	1,531.37	3/4	1,918.60	3/4	2,302.25	3/4	2,689.74	3/4	3,077.16	3/4	3,464.57	3/4	3,851.88

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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE
 GAUGE POINT: (2" STANDPIPE) LOCATED 12'-00" OFF CENTERLINE AND 48'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 28710"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	3,859.93	0	4,238.89	0	4,603.49	0	4,954.60	0		0		0		0		0		0	
1/4	3,867.96	1/4	4,246.62	1/4	4,610.94	1/4	4,961.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,875.98	1/2	4,254.34	1/2	4,618.39	1/2	4,968.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,884.01	3/4	4,262.06	3/4	4,625.83	3/4	4,976.08	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,892.03	1	4,269.78	1	4,633.28	1	4,983.24	1		1		1		1		1		1	
1/4	3,900.04	1/4	4,277.49	1/4	4,640.70	1/4	4,990.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.04	1/2	4,285.19	1/2	4,648.12	1/2	4,997.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.05	3/4	4,292.89	3/4	4,655.55	3/4	5,004.66	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,924.05	2	4,300.59	2	4,662.97	2	5,011.80	2		2		2		2		2		2	
1/4	3,932.03	1/4	4,308.26	1/4	4,670.36	1/4	5,018.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.01	1/2	4,315.94	1/2	4,677.76	1/2	5,026.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.99	3/4	4,323.62	3/4	4,685.15	3/4	5,033.15	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,955.97	3	4,331.30	3	4,692.55	3	5,040.27	3		3		3		3		3		3	
1/4	3,963.92	1/4	4,338.96	1/4	4,699.92	1/4	5,047.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.88	1/2	4,346.62	1/2	4,707.29	1/2	5,054.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.83	3/4	4,354.27	3/4	4,714.66	3/4	5,061.54	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,987.79	4	4,361.93	4	4,722.03	4	5,068.63	4		4		4		4		4		4	
1/4	3,995.72	1/4	4,369.57	1/4	4,729.39	1/4	5,075.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,003.65	1/2	4,377.20	1/2	4,736.74	1/2	5,082.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,011.58	3/4	4,384.83	3/4	4,744.09	3/4	5,089.75	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,019.51	5	4,392.46	5	4,751.44	5	5,096.79	5		5		5		5		5		5	
1/4	4,027.42	1/4	4,400.07	1/4	4,758.77	1/4	5,103.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,035.33	1/2	4,407.68	1/2	4,766.09	1/2	5,110.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,043.24	3/4	4,415.28	3/4	4,773.42	3/4	5,117.76	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,051.15	6	4,422.89	6	4,780.75	6	5,124.75	6		6		6		6		6		6	
1/4	4,059.04	1/4	4,430.47	1/4	4,788.05	1/4	5,131.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,066.93	1/2	4,438.06	1/2	4,795.35	1/2	5,138.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,074.82	3/4	4,445.64	3/4	4,802.65	3/4	5,145.65	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,082.70	7	4,453.22	7	4,809.95	7	5,152.62	7		7		7		7		7		7	
1/4	4,090.57	1/4	4,460.78	1/4	4,817.22	1/4	5,159.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,098.43	1/2	4,468.35	1/2	4,824.50	1/2	5,166.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,106.30	3/4	4,475.91	3/4	4,831.78	3/4	5,173.45	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,114.16	8	4,483.47	8	4,839.06	8	5,180.40	8		8		8		8		8		8	
1/4	4,122.00	1/4	4,491.01	1/4	4,846.31	1/4	5,186.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,129.83	1/2	4,498.55	1/2	4,853.57	1/2	5,193.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,137.67	3/4	4,506.08	3/4	4,860.82	3/4	5,200.14	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,145.51	9	4,513.62	9	4,868.08	9	5,206.72	9		9		9		9		9		9	
1/4	4,153.32	1/4	4,521.13	1/4	4,875.32	1/4	5,212.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,161.14	1/2	4,528.65	1/2	4,882.55	1/2	5,217.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,168.95	3/4	4,536.16	3/4	4,889.79	3/4	5,223.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,176.76	10	4,543.67	10	4,897.02	10	5,228.91	10		10		10		10		10		10	
1/4	4,184.55	1/4	4,551.16	1/4	4,904.23	1/4	5,233.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,192.33	1/2	4,558.65	1/2	4,911.45	1/2	5,237.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,200.11	3/4	4,566.14	3/4	4,918.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,207.90	11	4,573.62	11	4,925.87	11		11		11		11		11		11		11	
1/4	4,215.65	1/4	4,581.09	1/4	4,933.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,223.39	1/2	4,588.56	1/2	4,940.23	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,231.14	3/4	4,596.03	3/4	4,947.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28710"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-02"

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	17.81	0	375.32	0	722.07	0	1,070.74	0	1,426.35	0	1,784.33	0	2,144.15	0	2,503.85	0	2,863.58	0	3,165.58
1/4	24.65	1/4	382.35	1/4	729.25	1/4	1,078.24	1/4	1,433.85	1/4	1,791.79	1/4	2,151.64	1/4	2,511.34	1/4	2,871.07	1/4	3,170.19
1/2	31.50	1/2	389.37	1/2	736.44	1/2	1,085.74	1/2	1,441.35	1/2	1,799.24	1/2	2,159.14	1/2	2,518.84	1/2	2,878.56	1/2	3,174.79
3/4	38.35	3/4	396.40	3/4	743.62	3/4	1,093.24	3/4	1,448.85	3/4	1,806.70	3/4	2,166.63	3/4	2,526.33	3/4	2,886.06	3/4	3,179.40
1	45.20	1	403.42	1	750.80	1	1,100.74	1	1,456.35	1	1,814.15	1	2,174.12	1	2,533.83	1	2,893.55	1	3,184.01
1/4	52.69	1/4	410.44	1/4	757.98	1/4	1,108.06	1/4	1,463.80	1/4	1,821.66	1/4	2,181.62	1/4	2,541.32	1/4	2,901.05	1/4	3,188.63
1/2	60.18	1/2	417.47	1/2	765.16	1/2	1,115.38	1/2	1,471.25	1/2	1,829.16	1/2	2,189.11	1/2	2,548.81	1/2	2,908.54	1/2	3,193.24
3/4	67.67	3/4	424.49	3/4	772.35	3/4	1,122.70	3/4	1,478.71	3/4	1,836.67	3/4	2,196.61	3/4	2,556.31	3/4	2,916.04	3/4	3,197.86
2	75.16	2	431.51	2	779.53	2	1,130.02	2	1,486.16	2	1,844.17	2	2,204.10	2	2,563.80	2	2,923.53	2	3,202.48
1/4	82.66	1/4	438.54	1/4	786.71	1/4	1,137.34	1/4	1,493.62	1/4	1,851.68	1/4	2,211.60	1/4	2,571.30	1/4	2,931.02	1/4	3,207.10
1/2	90.16	1/2	445.56	1/2	793.89	1/2	1,144.65	1/2	1,501.07	1/2	1,859.18	1/2	2,219.09	1/2	2,578.79	1/2	2,938.52	1/2	3,211.71
3/4	97.66	3/4	452.58	3/4	801.08	3/4	1,151.97	3/4	1,508.53	3/4	1,866.69	3/4	2,226.59	3/4	2,586.29	3/4	2,946.01	3/4	3,216.33
3	105.16	3	459.61	3	808.26	3	1,159.29	3	1,515.98	3	1,874.19	3	2,234.08	3	2,593.78	3	2,953.51	3	3,220.95
1/4	112.66	1/4	466.63	1/4	815.44	1/4	1,166.61	1/4	1,523.43	1/4	1,881.70	1/4	2,241.57	1/4	2,601.27	1/4	2,961.00	1/4	3,225.56
1/2	120.17	1/2	473.65	1/2	822.62	1/2	1,173.93	1/2	1,530.89	1/2	1,889.20	1/2	2,249.06	1/2	2,608.77	1/2	2,968.50	1/2	3,230.18
3/4	127.67	3/4	480.68	3/4	829.80	3/4	1,181.25	3/4	1,538.34	3/4	1,896.71	3/4	2,256.56	3/4	2,616.26	3/4	2,975.99	3/4	3,234.80
4	135.17	4	487.70	4	836.99	4	1,188.57	4	1,545.80	4	1,904.22	4	2,264.05	4	2,623.76	4	2,983.48	4	3,239.42
1/4	142.68	1/4	494.73	1/4	844.17	1/4	1,195.89	1/4	1,553.25	1/4	1,911.72	1/4	2,271.54	1/4	2,631.25	1/4	2,990.98	1/4	3,244.03
1/2	150.18	1/2	501.75	1/2	851.35	1/2	1,203.21	1/2	1,560.71	1/2	1,919.23	1/2	2,279.03	1/2	2,638.75	1/2	2,998.47	1/2	3,248.65
3/4	157.69	3/4	508.77	3/4	858.53	3/4	1,210.53	3/4	1,568.16	3/4	1,926.73	3/4	2,286.52	3/4	2,646.24	3/4	3,005.97	3/4	3,253.27
5	165.19	5	515.80	5	865.71	5	1,217.85	5	1,575.61	5	1,934.24	5	2,294.01	5	2,653.73	5	3,013.46	5	3,257.88
1/4	172.70	1/4	523.30	1/4	872.90	1/4	1,225.17	1/4	1,583.07	1/4	1,941.74	1/4	2,301.50	1/4	2,661.23	1/4	3,020.96	1/4	3,262.50
1/2	180.20	1/2	530.81	1/2	880.08	1/2	1,232.49	1/2	1,590.52	1/2	1,949.25	1/2	2,309.00	1/2	2,668.72	1/2	3,028.45	1/2	3,267.12
3/4	187.71	3/4	538.31	3/4	887.26	3/4	1,239.81	3/4	1,597.98	3/4	1,956.75	3/4	2,316.49	3/4	2,676.22	3/4	3,035.94	3/4	3,271.73
6	195.21	6	545.81	6	894.44	6	1,247.12	6	1,605.43	6	1,964.26	6	2,323.99	6	2,683.71	6	3,043.44	6	3,276.35
1/4	202.72	1/4	553.32	1/4	901.62	1/4	1,254.44	1/4	1,612.89	1/4	1,971.76	1/4	2,331.48	1/4	2,691.21	1/4	3,050.93	1/4	3,280.97
1/2	210.22	1/2	560.82	1/2	908.81	1/2	1,261.76	1/2	1,620.34	1/2	1,979.27	1/2	2,338.97	1/2	2,698.70	1/2	3,058.43	1/2	3,285.59
3/4	217.73	3/4	568.33	3/4	915.99	3/4	1,269.08	3/4	1,627.79	3/4	1,986.77	3/4	2,346.47	3/4	2,706.19	3/4	3,065.92	3/4	3,290.20
7	225.23	7	575.83	7	923.17	7	1,276.40	7	1,635.25	7	1,994.28	7	2,353.96	7	2,713.69	7	3,073.42	7	3,294.82
1/4	232.74	1/4	583.34	1/4	930.37	1/4	1,283.90	1/4	1,642.70	1/4	2,001.78	1/4	2,361.46	1/4	2,721.18	1/4	3,078.02	1/4	3,299.43
1/2	240.24	1/2	590.84	1/2	937.56	1/2	1,291.40	1/2	1,650.16	1/2	2,009.28	1/2	2,368.95	1/2	2,728.68	1/2	3,082.63	1/2	3,304.03
3/4	247.74	3/4	598.35	3/4	944.76	3/4	1,298.90	3/4	1,657.61	3/4	2,016.78	3/4	2,376.45	3/4	2,736.17	3/4	3,087.24	3/4	3,308.64
8	255.25	8	605.85	8	951.95	8	1,306.40	8	1,665.07	8	2,024.29	8	2,383.94	8	2,743.67	8	3,091.85	8	3,313.25
1/4	262.75	1/4	613.36	1/4	959.14	1/4	1,313.90	1/4	1,672.52	1/4	2,031.79	1/4	2,391.43	1/4	2,751.16	1/4	3,096.46	1/4	3,317.83
1/2	270.26	1/2	620.87	1/2	966.34	1/2	1,321.40	1/2	1,679.97	1/2	2,039.29	1/2	2,398.93	1/2	2,758.65	1/2	3,101.06	1/2	3,322.42
3/4	277.76	3/4	628.38	3/4	973.53	3/4	1,328.90	3/4	1,687.43	3/4	2,046.79	3/4	2,406.42	3/4	2,766.15	3/4	3,105.67	3/4	3,327.00
9	285.27	9	635.89	9	980.73	9	1,336.40	9	1,694.88	9	2,054.29	9	2,413.92	9	2,773.64	9	3,110.28	9	3,331.59
1/4	292.77	1/4	643.07	1/4	988.23	1/4	1,343.89	1/4	1,702.34	1/4	2,061.78	1/4	2,421.41	1/4	2,781.14	1/4	3,114.89	1/4	3,336.15
1/2	300.28	1/2	650.25	1/2	995.73	1/2	1,351.39	1/2	1,709.79	1/2	2,069.26	1/2	2,428.91	1/2	2,788.63	1/2	3,119.50	1/2	3,340.72
3/4	307.78	3/4	657.43	3/4	1,003.23	3/4	1,358.88	3/4	1,717.25	3/4	2,076.75	3/4	2,436.40	3/4	2,796.13	3/4	3,124.10	3/4	3,345.28
10	315.29	10	664.62	10	1,010.73	10	1,366.38	10	1,724.70	10	2,084.24	10	2,443.89	10	2,803.62	10	3,128.71	10	3,349.85
1/4	322.79	1/4	671.80	1/4	1,018.23	1/4	1,373.87	1/4	1,732.15	1/4	2,091.72	1/4	2,451.39	1/4	2,811.12	1/4	3,133.32	1/4	3,354.39
1/2	330.30	1/2	678.98	1/2	1,025.73	1/2	1,381.36	1/2	1,739.61	1/2	2,099.21	1/2	2,458.88	1/2	2,818.61	1/2	3,137.93	1/2	3,358.94
3/4	337.80	3/4	686.16	3/4	1,033.23	3/4	1,388.86	3/4	1,747.06	3/4	2,106.69	3/4	2,466.38	3/4	2,826.10	3/4	3,142.54	3/4	3,363.48
11	345.31	11	693.34	11	1,040.73	11	1,396.35	11	1,754.52	11	2,114.18	11	2,473.87	11	2,833.60	11	3,147.15	11	3,368.03
1/4	352.81	1/4	700.53	1/4	1,048.23	1/4	1,403.85	1/4	1,761.97	1/4	2,121.67	1/4	2,481.37	1/4	2,841.09	1/4	3,151.75	1/4	3,372.55
1/2	360.31	1/2	707.71	1/2	1,055.74	1/2	1,411.35	1/2	1,769.43	1/2	2,129.16	1/2	2,488.86	1/2	2,848.59	1/2	3,156.36	1/2	3,377.07
3/4	367.82	3/4	714.89	3/4	1,063.24	3/4	1,418.85	3/4	1,776.88	3/4	2,136.66	3/4	2,496.35	3/4	2,856.08	3/4	3,160.97	3/4	3,381.59

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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE
 GAUGE POINT: (2" STANDPIPE) LOCATED 12'-00" OFF CENTERLINE AND 50'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28710"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-02"

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	3,386.10	0	3,596.29	0	3,793.46	0	3,977.96	0		0		0		0		0		0	
1/4	3,390.60	1/4	3,600.53	1/4	3,797.42	1/4	3,981.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,395.10	1/2	3,604.77	1/2	3,801.39	1/2	3,985.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,399.60	3/4	3,609.01	3/4	3,805.35	3/4	3,989.06	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,404.09	1	3,613.25	1	3,809.31	1	3,992.76	1		1		1		1		1		1	
1/4	3,408.57	1/4	3,617.47	1/4	3,813.26	1/4	3,996.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,413.05	1/2	3,621.68	1/2	3,817.20	1/2	4,000.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.52	3/4	3,625.89	3/4	3,821.15	3/4	4,003.63	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,422.00	2	3,630.11	2	3,825.09	2	4,007.26	2		2		2		2		2		2	
1/4	3,426.46	1/4	3,634.29	1/4	3,829.01	1/4	4,010.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,430.91	1/2	3,638.47	1/2	3,832.93	1/2	4,014.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,435.37	3/4	3,642.65	3/4	3,836.85	3/4	4,018.08	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,439.83	3	3,646.83	3	3,840.76	3	4,021.68	3		3		3		3		3		3	
1/4	3,444.26	1/4	3,650.99	1/4	3,844.66	1/4	4,025.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,448.70	1/2	3,655.15	1/2	3,848.56	1/2	4,028.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,453.14	3/4	3,659.31	3/4	3,852.45	3/4	4,032.45	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,457.58	4	3,663.47	4	3,856.35	4	4,036.04	4		4		4		4		4		4	
1/4	3,461.99	1/4	3,667.61	1/4	3,860.22	1/4	4,039.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,466.40	1/2	3,671.75	1/2	3,864.10	1/2	4,043.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,470.81	3/4	3,675.89	3/4	3,867.97	3/4	4,046.71	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,475.22	5	3,680.04	5	3,871.85	5	4,050.27	5		5		5		5		5		5	
1/4	3,479.61	1/4	3,684.15	1/4	3,875.70	1/4	4,053.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,484.00	1/2	3,688.27	1/2	3,879.56	1/2	4,056.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,488.38	3/4	3,692.38	3/4	3,883.42	3/4	4,059.00	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,492.77	6	3,696.49	6	3,887.27	6	4,061.91	6		6		6		6		6		6	
1/4	3,497.14	1/4	3,700.59	1/4	3,891.11	1/4	4,063.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,501.51	1/2	3,704.68	1/2	3,894.95	1/2	4,065.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,505.87	3/4	3,708.77	3/4	3,898.79	3/4	4,066.82	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,510.24	7	3,712.87	7	3,902.62	7	4,068.45	7		7		7		7		7		7	
1/4	3,514.59	1/4	3,716.94	1/4	3,906.43	1/4	4,068.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,518.94	1/2	3,721.01	1/2	3,910.24	1/2	4,069.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,523.29	3/4	3,725.08	3/4	3,914.05	3/4	4,069.54	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,527.64	8	3,729.15	8	3,917.86	8		8		8		8		8		8		8	
1/4	3,531.96	1/4	3,733.21	1/4	3,921.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,536.28	1/2	3,737.26	1/2	3,925.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,540.60	3/4	3,741.31	3/4	3,929.22	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,544.93	9	3,745.36	9	3,933.01	9		9		9		9		9		9		9	
1/4	3,549.23	1/4	3,749.40	1/4	3,936.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,553.53	1/2	3,753.43	1/2	3,940.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,557.83	3/4	3,757.47	3/4	3,944.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,562.13	10	3,761.50	10	3,948.07	10		10		10		10		10		10		10	
1/4	3,566.41	1/4	3,765.51	1/4	3,951.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,570.69	1/2	3,769.51	1/2	3,955.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,574.97	3/4	3,773.52	3/4	3,959.32	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,579.25	11	3,777.52	11	3,963.07	11		11		11		11		11		11		11	
1/4	3,583.51	1/4	3,781.51	1/4	3,966.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,587.77	1/2	3,785.49	1/2	3,970.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,592.03	3/4	3,789.48	3/4	3,974.23	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28710"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-00 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	17.91	0	375.89	0	726.76	0	1,087.03	0	1,447.90	0	1,806.22	0	2,165.58	0	2,525.90	0	2,886.24	0	3,188.44
1/4	24.76	1/4	382.92	1/4	734.25	1/4	1,094.55	1/4	1,455.42	1/4	1,813.57	1/4	2,173.08	1/4	2,533.40	1/4	2,893.75	1/4	3,193.04
1/2	31.62	1/2	389.96	1/2	741.75	1/2	1,102.07	1/2	1,462.94	1/2	1,820.93	1/2	2,180.59	1/2	2,540.91	1/2	2,901.26	1/2	3,197.64
3/4	38.48	3/4	396.99	3/4	749.24	3/4	1,109.58	3/4	1,470.46	3/4	1,828.29	3/4	2,188.09	3/4	2,548.42	3/4	2,908.76	3/4	3,202.24
1	45.34	1	404.02	1	756.74	1	1,117.10	1	1,477.98	1	1,835.65	1	2,195.60	1	2,555.92	1	2,916.27	1	3,206.84
1/4	52.84	1/4	411.06	1/4	764.24	1/4	1,124.62	1/4	1,485.50	1/4	1,843.01	1/4	2,203.11	1/4	2,563.43	1/4	2,923.78	1/4	3,211.45
1/2	60.34	1/2	418.09	1/2	771.73	1/2	1,132.14	1/2	1,493.01	1/2	1,850.36	1/2	2,210.62	1/2	2,570.94	1/2	2,931.28	1/2	3,216.06
3/4	67.84	3/4	425.12	3/4	779.23	3/4	1,139.66	3/4	1,500.53	3/4	1,857.72	3/4	2,218.12	3/4	2,578.45	3/4	2,938.79	3/4	3,220.67
2	75.34	2	432.16	2	786.72	2	1,147.18	2	1,508.05	2	1,865.08	2	2,225.63	2	2,585.95	2	2,946.30	2	3,225.28
1/4	82.85	1/4	439.19	1/4	794.22	1/4	1,154.70	1/4	1,515.57	1/4	1,872.60	1/4	2,233.14	1/4	2,593.46	1/4	2,953.81	1/4	3,229.88
1/2	90.36	1/2	446.22	1/2	801.72	1/2	1,162.22	1/2	1,523.09	1/2	1,880.12	1/2	2,240.65	1/2	2,600.97	1/2	2,961.31	1/2	3,234.49
3/4	97.86	3/4	453.26	3/4	809.21	3/4	1,169.74	3/4	1,530.60	3/4	1,887.63	3/4	2,248.16	3/4	2,608.47	3/4	2,968.82	3/4	3,239.10
3	105.37	3	460.29	3	816.71	3	1,177.26	3	1,538.12	3	1,895.15	3	2,255.67	3	2,615.98	3	2,976.33	3	3,243.71
1/4	112.89	1/4	467.32	1/4	824.20	1/4	1,184.78	1/4	1,545.64	1/4	1,902.67	1/4	2,263.17	1/4	2,623.49	1/4	2,983.83	1/4	3,248.32
1/2	120.40	1/2	474.36	1/2	831.70	1/2	1,192.30	1/2	1,553.16	1/2	1,910.19	1/2	2,270.67	1/2	2,631.00	1/2	2,991.34	1/2	3,252.93
3/4	127.92	3/4	481.39	3/4	839.20	3/4	1,199.82	3/4	1,560.68	3/4	1,917.71	3/4	2,278.18	3/4	2,638.50	3/4	2,998.85	3/4	3,257.54
4	135.43	4	488.42	4	846.69	4	1,207.33	4	1,568.20	4	1,925.23	4	2,285.68	4	2,646.01	4	3,006.36	4	3,262.14
1/4	142.94	1/4	495.46	1/4	854.19	1/4	1,214.85	1/4	1,575.71	1/4	1,932.74	1/4	2,293.18	1/4	2,653.52	1/4	3,013.86	1/4	3,266.75
1/2	150.46	1/2	502.49	1/2	861.68	1/2	1,222.37	1/2	1,583.23	1/2	1,940.26	1/2	2,300.69	1/2	2,661.02	1/2	3,021.37	1/2	3,271.36
3/4	157.97	3/4	509.52	3/4	869.18	3/4	1,229.89	3/4	1,590.75	3/4	1,947.78	3/4	2,308.19	3/4	2,668.53	3/4	3,028.88	3/4	3,275.97
5	165.49	5	516.56	5	876.68	5	1,237.41	5	1,598.27	5	1,955.30	5	2,315.69	5	2,676.04	5	3,036.39	5	3,280.58
1/4	173.00	1/4	524.07	1/4	884.17	1/4	1,244.93	1/4	1,605.79	1/4	1,962.82	1/4	2,323.20	1/4	2,683.55	1/4	3,043.90	1/4	3,285.19
1/2	180.52	1/2	531.59	1/2	891.67	1/2	1,252.45	1/2	1,613.31	1/2	1,970.34	1/2	2,330.71	1/2	2,691.05	1/2	3,051.40	1/2	3,289.80
3/4	188.03	3/4	539.10	3/4	899.16	3/4	1,259.97	3/4	1,620.82	3/4	1,977.85	3/4	2,338.22	3/4	2,698.56	3/4	3,058.91	3/4	3,294.40
6	195.54	6	546.61	6	906.66	6	1,267.49	6	1,628.34	6	1,985.37	6	2,345.72	6	2,706.07	6	3,066.42	6	3,299.01
1/4	203.06	1/4	554.13	1/4	914.16	1/4	1,275.01	1/4	1,635.86	1/4	1,992.89	1/4	2,353.23	1/4	2,713.58	1/4	3,073.93	1/4	3,303.62
1/2	210.57	1/2	561.64	1/2	921.65	1/2	1,282.53	1/2	1,643.38	1/2	2,000.41	1/2	2,360.74	1/2	2,721.08	1/2	3,081.44	1/2	3,308.23
3/4	218.09	3/4	569.16	3/4	929.15	3/4	1,290.05	3/4	1,650.90	3/4	2,007.93	3/4	2,368.24	3/4	2,728.59	3/4	3,088.94	3/4	3,312.84
7	225.60	7	576.67	7	936.64	7	1,297.56	7	1,658.42	7	2,015.44	7	2,375.75	7	2,736.10	7	3,096.45	7	3,317.45
1/4	233.12	1/4	584.18	1/4	944.16	1/4	1,305.08	1/4	1,665.93	1/4	2,022.96	1/4	2,383.26	1/4	2,743.60	1/4	3,103.95	1/4	3,322.05
1/2	240.63	1/2	591.70	1/2	951.68	1/2	1,312.60	1/2	1,673.45	1/2	2,030.47	1/2	2,390.77	1/2	2,751.11	1/2	3,105.65	1/2	3,326.64
3/4	248.15	3/4	599.21	3/4	959.20	3/4	1,320.12	3/4	1,680.97	3/4	2,037.99	3/4	2,398.27	3/4	2,758.62	3/4	3,110.25	3/4	3,331.24
8	255.66	8	606.73	8	966.72	8	1,327.64	8	1,688.49	8	2,045.50	8	2,405.78	8	2,766.13	8	3,114.85	8	3,335.84
1/4	263.17	1/4	614.25	1/4	974.24	1/4	1,335.16	1/4	1,695.95	1/4	2,053.02	1/4	2,413.29	1/4	2,773.63	1/4	3,119.45	1/4	3,340.42
1/2	270.69	1/2	621.77	1/2	981.76	1/2	1,342.68	1/2	1,703.21	1/2	2,060.53	1/2	2,420.79	1/2	2,781.14	1/2	3,124.05	1/2	3,344.99
3/4	278.20	3/4	629.28	3/4	989.28	3/4	1,350.20	3/4	1,710.56	3/4	2,068.05	3/4	2,428.30	3/4	2,788.65	3/4	3,128.65	3/4	3,349.57
9	285.72	9	636.80	9	996.80	9	1,357.72	9	1,717.92	9	2,075.56	9	2,435.81	9	2,796.15	9	3,133.25	9	3,354.15
1/4	293.23	1/4	644.30	1/4	1,004.32	1/4	1,365.23	1/4	1,725.28	1/4	2,083.06	1/4	2,443.32	1/4	2,803.66	1/4	3,137.85	1/4	3,358.70
1/2	300.75	1/2	651.80	1/2	1,011.84	1/2	1,372.75	1/2	1,732.64	1/2	2,090.56	1/2	2,450.82	1/2	2,811.17	1/2	3,142.45	1/2	3,363.26
3/4	308.26	3/4	659.29	3/4	1,019.35	3/4	1,380.26	3/4	1,739.99	3/4	2,098.06	3/4	2,458.33	3/4	2,818.68	3/4	3,147.05	3/4	3,367.82
10	315.77	10	666.79	10	1,026.87	10	1,387.77	10	1,747.35	10	2,105.56	10	2,465.84	10	2,826.18	10	3,151.65	10	3,372.37
1/4	323.29	1/4	674.28	1/4	1,034.39	1/4	1,395.29	1/4	1,754.71	1/4	2,113.06	1/4	2,473.34	1/4	2,833.69	1/4	3,156.25	1/4	3,376.91
1/2	330.80	1/2	681.78	1/2	1,041.91	1/2	1,402.80	1/2	1,762.07	1/2	2,120.56	1/2	2,480.85	1/2	2,841.20	1/2	3,160.85	1/2	3,381.45
3/4	338.32	3/4	689.28	3/4	1,049.43	3/4	1,410.31	3/4	1,769.43	3/4	2,128.05	3/4	2,488.36	3/4	2,848.70	3/4	3,165.44	3/4	3,385.98
11	345.83	11	696.77	11	1,056.95	11	1,417.83	11	1,776.78	11	2,135.55	11	2,495.87	11	2,856.21	11	3,170.04	11	3,390.52
1/4	353.35	1/4	704.27	1/4	1,064.47	1/4	1,425.35	1/4	1,784.14	1/4	2,143.06	1/4	2,503.37	1/4	2,863.72	1/4	3,174.64	1/4	3,395.03
1/2	360.86	1/2	711.76	1/2	1,071.99	1/2	1,432.86	1/2	1,791.50	1/2	2,150.56	1/2	2,510.88	1/2	2,871.23	1/2	3,179.24	1/2	3,399.54
3/4	368.38	3/4	719.26	3/4	1,079.51	3/4	1,440.38	3/4	1,798.86	3/4	2,158.07	3/4	2,518.39	3/4	2,878.73	3/4	3,183.84	3/4	3,404.05

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 INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE
 GAUGE POINT: (2" STANDPIPE) LOCATED 13'-06" OFF CENTERLINE AND 50'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 28710"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-00 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	3,408.56	0	3,618.34	0	3,815.10	0	3,999.19	0		0		0		0		0		0	
1/4	3,413.05	1/4	3,622.57	1/4	3,819.06	1/4	4,002.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,417.54	1/2	3,626.80	1/2	3,823.01	1/2	4,006.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,422.03	3/4	3,631.04	3/4	3,826.96	3/4	4,010.27	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,426.52	1	3,635.27	1	3,830.92	1	4,013.96	1		1		1		1		1		1	
1/4	3,430.99	1/4	3,639.47	1/4	3,834.86	1/4	4,017.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,435.45	1/2	3,643.68	1/2	3,838.79	1/2	4,021.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,439.92	3/4	3,647.88	3/4	3,842.73	3/4	4,024.81	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,444.39	2	3,652.09	2	3,846.67	2	4,028.42	2		2		2		2		2		2	
1/4	3,448.84	1/4	3,656.26	1/4	3,850.58	1/4	4,032.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,453.28	1/2	3,660.43	1/2	3,854.48	1/2	4,035.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,457.73	3/4	3,664.60	3/4	3,858.39	3/4	4,039.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,462.18	3	3,668.78	3	3,862.30	3	4,042.81	3		3		3		3		3		3	
1/4	3,466.61	1/4	3,672.93	1/4	3,866.19	1/4	4,046.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,471.04	1/2	3,677.08	1/2	3,870.08	1/2	4,049.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,475.47	3/4	3,681.23	3/4	3,873.97	3/4	4,053.55	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,479.90	4	3,685.38	4	3,877.85	4	4,057.13	4		4		4		4		4		4	
1/4	3,484.30	1/4	3,689.52	1/4	3,881.72	1/4	4,060.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,488.70	1/2	3,693.65	1/2	3,885.59	1/2	4,064.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,493.10	3/4	3,697.78	3/4	3,889.45	3/4	4,067.78	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,497.50	5	3,701.92	5	3,893.32	5	4,071.33	5		5		5		5		5		5	
1/4	3,501.88	1/4	3,706.02	1/4	3,897.17	1/4	4,074.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,506.27	1/2	3,710.13	1/2	3,901.01	1/2	4,077.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,510.65	3/4	3,714.23	3/4	3,904.86	3/4	4,080.04	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,515.03	6	3,718.34	6	3,908.71	6	4,082.94	6		6		6		6		6		6	
1/4	3,519.38	1/4	3,722.42	1/4	3,912.54	1/4	4,084.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,523.74	1/2	3,726.51	1/2	3,916.37	1/2	4,086.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,528.10	3/4	3,730.59	3/4	3,920.20	3/4	4,087.82	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,532.46	7	3,734.68	7	3,924.03	7	4,089.45	7		7		7		7		7		7	
1/4	3,536.80	1/4	3,738.74	1/4	3,927.83	1/4	4,089.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,541.14	1/2	3,742.80	1/2	3,931.63	1/2	4,090.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,545.48	3/4	3,746.87	3/4	3,935.43	3/4	4,090.52	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,549.82	8	3,750.93	8	3,939.23	8		8		8		8		8		8		8	
1/4	3,554.14	1/4	3,754.97	1/4	3,943.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,558.45	1/2	3,759.02	1/2	3,946.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,562.76	3/4	3,763.06	3/4	3,950.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,567.08	9	3,767.11	9	3,954.34	9		9		9		9		9		9		9	
1/4	3,571.37	1/4	3,771.13	1/4	3,958.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,575.66	1/2	3,775.16	1/2	3,961.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,579.95	3/4	3,779.19	3/4	3,965.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,584.25	10	3,783.21	10	3,969.38	10		10		10		10		10		10		10	
1/4	3,588.52	1/4	3,787.21	1/4	3,973.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,592.79	1/2	3,791.20	1/2	3,976.86	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,597.06	3/4	3,795.20	3/4	3,980.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,601.33	11	3,799.20	11	3,984.34	11		11		11		11		11		11		11	
1/4	3,605.58	1/4	3,803.17	1/4	3,988.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,609.83	1/2	3,807.15	1/2	3,991.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,614.08	3/4	3,811.13	3/4	3,995.48	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2015 SW
CALCULATED: 08/15/2015 CL
PRINTED: 08/15/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2015

PRECISION MEASUREMENT
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BARGE "KIRBY 28710"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	2,359	0	4,718	0	7,077	0	9,436	0	11,795	0		0		0		0	
1/4	49	1/4	2,408	1/4	4,767	1/4	7,126	1/4	9,485	1/4	11,844	1/4		1/4		1/4		1/4	
1/2	98	1/2	2,457	1/2	4,816	1/2	7,175	1/2	9,534	1/2	11,893	1/2		1/2		1/2		1/2	
3/4	147	3/4	2,506	3/4	4,865	3/4	7,224	3/4	9,583	3/4	11,942	3/4		3/4		3/4		3/4	
1	197	1	2,556	1	4,915	1	7,273	1	9,632	1	11,991	1		1		1		1	
1/4	246	1/4	2,605	1/4	4,964	1/4	7,323	1/4	9,682	1/4	12,041	1/4		1/4		1/4		1/4	
1/2	295	1/2	2,654	1/2	5,013	1/2	7,372	1/2	9,731	1/2	12,090	1/2		1/2		1/2		1/2	
3/4	344	3/4	2,703	3/4	5,062	3/4	7,421	3/4	9,780	3/4	12,139	3/4		3/4		3/4		3/4	
2	393	2	2,752	2	5,111	2	7,470	2	9,829	2	12,188	2		2		2		2	
1/4	442	1/4	2,801	1/4	5,160	1/4	7,519	1/4	9,878	1/4	12,237	1/4		1/4		1/4		1/4	
1/2	491	1/2	2,850	1/2	5,209	1/2	7,568	1/2	9,927	1/2	12,286	1/2		1/2		1/2		1/2	
3/4	541	3/4	2,900	3/4	5,259	3/4	7,617	3/4	9,976	3/4	12,335	3/4		3/4		3/4		3/4	
3	590	3	2,949	3	5,308	3	7,667	3	10,026	3	12,385	3		3		3		3	
1/4	639	1/4	2,998	1/4	5,357	1/4	7,716	1/4	10,075	1/4	12,434	1/4		1/4		1/4		1/4	
1/2	688	1/2	3,047	1/2	5,406	1/2	7,765	1/2	10,124	1/2	12,483	1/2		1/2		1/2		1/2	
3/4	737	3/4	3,096	3/4	5,455	3/4	7,814	3/4	10,173	3/4	12,532	3/4		3/4		3/4		3/4	
4	786	4	3,145	4	5,504	4	7,863	4	10,222	4	12,581	4		4		4		4	
1/4	835	1/4	3,194	1/4	5,553	1/4	7,912	1/4	10,271	1/4	12,630	1/4		1/4		1/4		1/4	
1/2	885	1/2	3,244	1/2	5,603	1/2	7,961	1/2	10,320	1/2	12,679	1/2		1/2		1/2		1/2	
3/4	934	3/4	3,293	3/4	5,652	3/4	8,011	3/4	10,370	3/4	12,729	3/4		3/4		3/4		3/4	
5	983	5	3,342	5	5,701	5	8,060	5	10,419	5	12,778	5		5		5		5	
1/4	1,032	1/4	3,391	1/4	5,750	1/4	8,109	1/4	10,468	1/4	12,827	1/4		1/4		1/4		1/4	
1/2	1,081	1/2	3,440	1/2	5,799	1/2	8,158	1/2	10,517	1/2	12,876	1/2		1/2		1/2		1/2	
3/4	1,130	3/4	3,489	3/4	5,848	3/4	8,207	3/4	10,566	3/4	12,925	3/4		3/4		3/4		3/4	
6	1,179	6	3,538	6	5,897	6	8,256	6	10,615	6	12,974	6		6		6		6	
1/4	1,229	1/4	3,588	1/4	5,947	1/4	8,306	1/4	10,664	1/4	13,023	1/4		1/4		1/4		1/4	
1/2	1,278	1/2	3,637	1/2	5,996	1/2	8,355	1/2	10,714	1/2	13,073	1/2		1/2		1/2		1/2	
3/4	1,327	3/4	3,686	3/4	6,045	3/4	8,404	3/4	10,763	3/4	13,122	3/4		3/4		3/4		3/4	
7	1,376	7	3,735	7	6,094	7	8,453	7	10,812	7	13,171	7		7		7		7	
1/4	1,425	1/4	3,784	1/4	6,143	1/4	8,502	1/4	10,861	1/4	13,220	1/4		1/4		1/4		1/4	
1/2	1,474	1/2	3,833	1/2	6,192	1/2	8,551	1/2	10,910	1/2	13,269	1/2		1/2		1/2		1/2	
3/4	1,523	3/4	3,882	3/4	6,241	3/4	8,600	3/4	10,959	3/4	13,318	3/4		3/4		3/4		3/4	
8	1,573	8	3,932	8	6,291	8	8,650	8	11,008	8	13,367	8		8		8		8	
1/4	1,622	1/4	3,981	1/4	6,340	1/4	8,699	1/4	11,058	1/4	13,417	1/4		1/4		1/4		1/4	
1/2	1,671	1/2	4,030	1/2	6,389	1/2	8,748	1/2	11,107	1/2	13,466	1/2		1/2		1/2		1/2	
3/4	1,720	3/4	4,079	3/4	6,438	3/4	8,797	3/4	11,156	3/4	13,515	3/4		3/4		3/4		3/4	
9	1,769	9	4,128	9	6,487	9	8,846	9	11,205	9	13,564	9		9		9		9	
1/4	1,818	1/4	4,177	1/4	6,536	1/4	8,895	1/4	11,254	1/4	13,613	1/4		1/4		1/4		1/4	
1/2	1,868	1/2	4,226	1/2	6,585	1/2	8,944	1/2	11,303	1/2	13,662	1/2		1/2		1/2		1/2	
3/4	1,917	3/4	4,275	3/4	6,635	3/4	8,994	3/4	11,352	3/4	13,711	3/4		3/4		3/4		3/4	
10	1,966	10	4,325	10	6,684	10	9,043	10	11,402	10	13,761	10		10		10		10	
1/4	2,015	1/4	4,374	1/4	6,733	1/4	9,092	1/4	11,451	1/4	13,810	1/4		1/4		1/4		1/4	
1/2	2,064	1/2	4,423	1/2	6,782	1/2	9,141	1/2	11,500	1/2	13,859	1/2		1/2		1/2		1/2	
3/4	2,113	3/4	4,472	3/4	6,831	3/4	9,190	3/4	11,549	3/4	13,908	3/4		3/4		3/4		3/4	
11	2,162	11	4,521	11	6,880	11	9,239	11	11,598	11	13,957	11		11		11		11	
1/4	2,212	1/4	4,570	1/4	6,929	1/4	9,288	1/4	11,647	1/4		1/4		1/4		1/4		1/4	
1/2	2,261	1/2	4,620	1/2	6,979	1/2	9,338	1/2	11,697	1/2		1/2		1/2		1/2		1/2	
3/4	2,310	3/4	4,669	3/4	7,028	3/4	9,387	3/4	11,746	3/4		3/4		3/4		3/4		3/4	

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 INNAGE GAUGES

STRAPPED: 07/07/2021 CL
COMPUTED: 07/07/2021 CL
PRINTED: 07/07/2021 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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