



BARGE "KIRBY 29163"

ULLAGE TRIM TABLE

FORMERLY "SMI 30031"

	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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8
3 STBD	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8	00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

December 3, 2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29163"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
0	0	0	0	0	5,078.52	0	4,735.72	0	4,376.58	0	4,017.45	0	3,658.31	0	3,299.17	0	2,940.03			
1/4	1/4	1/4	1/4	1/4	5,074.17	1/4	4,728.23	1/4	4,369.10	1/4	4,009.96	1/4	3,650.82	1/4	3,291.69	1/4	2,932.55			
1/2	1/2	1/2	1/2	1/2	5,069.81	1/2	4,720.75	1/2	4,361.62	1/2	4,002.48	1/2	3,643.34	1/2	3,284.21	1/2	2,925.07			
3/4	3/4	3/4	3/4	3/4	5,064.21	3/4	4,713.27	3/4	4,354.14	3/4	3,995.00	3/4	3,635.86	3/4	3,276.73	3/4	2,917.59			
1	1	1	1	1	5,058.61	1	4,705.79	1	4,346.66	1	3,987.52	1	3,628.38	1	3,269.24	1	2,910.10			
1/4	1/4	1/4	1/4	1/4	5,053.01	1/4	4,698.30	1/4	4,339.17	1/4	3,980.03	1/4	3,620.90	1/4	3,261.76	1/4	2,902.62			
1/2	1/2	1/2	1/2	1/2	5,047.41	1/2	4,690.82	1/2	4,331.69	1/2	3,972.55	1/2	3,613.42	1/2	3,254.28	1/2	2,895.14			
3/4	3/4	3/4	3/4	3/4	5,040.57	3/4	4,683.34	3/4	4,324.21	3/4	3,965.07	3/4	3,605.94	3/4	3,246.80	3/4	2,887.66			
2	2	2	2	2	5,033.72	2	4,675.86	2	4,316.73	2	3,957.59	2	3,598.46	2	3,239.31	2	2,880.18			
1/4	1/4	1/4	1/4	1/4	5,026.88	1/4	4,668.38	1/4	4,309.24	1/4	3,950.10	1/4	3,590.97	1/4	3,231.83	1/4	2,872.70			
1/2	1/2	1/2	1/2	1/2	5,020.03	1/2	4,660.90	1/2	4,301.76	1/2	3,942.62	1/2	3,583.49	1/2	3,224.35	1/2	2,865.22			
3/4	3/4	3/4	3/4	3/4	5,012.55	3/4	4,653.42	3/4	4,294.28	3/4	3,935.14	3/4	3,576.01	3/4	3,216.87	3/4	2,857.74			
3	3	3	3	3	5,005.07	3	4,645.94	3	4,286.80	3	3,927.66	3	3,568.53	3	3,209.38	3	2,850.25			
1/4	1/4	1/4	1/4	1/4	4,997.58	1/4	4,638.45	1/4	4,279.31	1/4	3,920.18	1/4	3,561.04	1/4	3,201.90	1/4	2,842.77			
1/2	1/2	1/2	1/2	1/2	4,990.10	1/2	4,630.97	1/2	4,271.83	1/2	3,912.70	1/2	3,553.56	1/2	3,194.42	1/2	2,835.29			
3/4	3/4	3/4	3/4	3/4	4,982.62	3/4	4,623.49	3/4	4,264.35	3/4	3,905.22	3/4	3,546.08	3/4	3,186.94	3/4	2,827.81			
4	4	4	4	4	4,975.14	4	4,616.01	4	4,256.87	4	3,897.74	4	3,538.60	4	3,179.46	4	2,820.32			
1/4	1/4	1/4	1/4	1/4	4,967.66	1/4	4,608.52	1/4	4,249.38	1/4	3,890.25	1/4	3,531.11	1/4	3,171.98	1/4	2,812.84			
1/2	1/2	1/2	1/2	1/2	4,960.18	1/2	4,601.04	1/2	4,241.90	1/2	3,882.77	1/2	3,523.63	1/2	3,164.50	1/2	2,805.36			
3/4	3/4	3/4	3/4	3/4	4,952.70	3/4	4,593.56	3/4	4,234.42	3/4	3,875.29	3/4	3,516.15	3/4	3,157.02	3/4	2,797.88			
5	5	5	5	5	4,945.22	5	4,586.08	5	4,226.94	5	3,867.81	5	3,508.67	5	3,149.53	5	2,790.39			
1/4	1/4	1/4	1/4	1/4	4,937.73	1/4	4,578.59	1/4	4,219.46	1/4	3,860.32	1/4	3,501.18	1/4	3,142.05	1/4	2,782.91			
1/2	1/2	1/2	1/2	1/2	4,930.25	1/2	4,571.11	1/2	4,211.98	1/2	3,852.84	1/2	3,493.70	1/2	3,134.57	1/2	2,775.43			
3/4	3/4	3/4	3/4	3/4	4,922.77	3/4	4,563.63	3/4	4,204.50	3/4	3,845.36	3/4	3,486.22	3/4	3,127.09	3/4	2,767.95			
6	6	6	6	6	4,915.29	6	4,556.15	6	4,197.02	6	3,837.88	6	3,478.74	6	3,119.60	6	2,760.46			
1/4	1/4	1/4	1/4	1/4	4,907.80	1/4	4,548.66	1/4	4,189.53	1/4	3,830.39	1/4	3,471.26	1/4	3,112.12	1/4	2,752.98			
1/2	1/2	1/2	1/2	1/2	4,900.32	1/2	4,541.18	1/2	4,182.05	1/2	3,822.91	1/2	3,463.78	1/2	3,104.64	1/2	2,745.50			
3/4	3/4	3/4	3/4	3/4	4,892.84	3/4	4,533.70	3/4	4,174.57	3/4	3,815.43	3/4	3,456.30	3/4	3,097.16	3/4	2,738.02			
7	7	7	7	7	4,885.36	7	4,526.22	7	4,167.09	7	3,807.95	7	3,448.82	7	3,089.67	7	2,730.54			
1/4	1/4	1/4	1/4	1/4	4,877.87	1/4	4,518.74	1/4	4,159.60	1/4	3,800.46	1/4	3,441.33	1/4	3,082.19	1/4	2,723.06			
1/2	1/2	1/2	1/2	1/2	4,870.39	1/2	4,511.26	1/2	4,152.12	1/2	3,792.98	1/2	3,433.85	1/2	3,074.71	1/2	2,715.58			
3/4	3/4	3/4	3/4	3/4	4,862.91	3/4	4,503.78	3/4	4,144.64	3/4	3,785.50	3/4	3,426.37	3/4	3,067.23	3/4	2,708.10			
8	8	8	8	8	4,855.43	8	4,496.30	8	4,137.16	8	3,778.02	8	3,418.89	8	3,059.74	8	2,700.61			
1/4	1/4	1/4	1/4	1/4	4,847.94	1/4	4,488.81	1/4	4,129.67	1/4	3,770.54	1/4	3,411.40	1/4	3,052.26	1/4	2,693.13			
1/2	1/2	1/2	1/2	5,109.63	1/2	4,840.46	1/2	4,481.33	1/2	4,122.19	1/2	3,763.06	1/2	3,403.92	1/2	3,044.78	1/2	2,685.65		
3/4	3/4	3/4	3/4	5,109.01	3/4	4,832.98	3/4	4,473.85	3/4	4,114.71	3/4	3,755.58	3/4	3,396.44	3/4	3,037.30	3/4	2,678.17		
9	9	9	9	5,108.39	9	4,825.50	9	4,466.37	9	4,107.23	9	3,748.10	9	3,388.96	9	3,029.82	9	2,670.68		
1/4	1/4	1/4	1/4	5,107.76	1/4	4,818.02	1/4	4,458.88	1/4	4,099.74	1/4	3,740.61	1/4	3,381.47	1/4	3,022.34	1/4	2,663.20		
1/2	1/2	1/2	1/2	5,107.14	1/2	4,810.54	1/2	4,451.40	1/2	4,092.26	1/2	3,733.13	1/2	3,373.99	1/2	3,014.86	1/2	2,655.72		
3/4	3/4	3/4	3/4	5,105.28	3/4	4,803.06	3/4	4,443.92	3/4	4,084.78	3/4	3,725.65	3/4	3,366.51	3/4	3,007.38	3/4	2,648.24		
10	10	10	10	5,103.41	10	4,795.58	10	4,436.44	10	4,077.30	10	3,718.17	10	3,359.03	10	2,999.89	10	2,640.75		
1/4	1/4	1/4	1/4	5,101.55	1/4	4,788.09	1/4	4,428.95	1/4	4,069.82	1/4	3,710.68	1/4	3,351.54	1/4	2,992.41	1/4	2,633.27		
1/2	1/2	1/2	1/2	5,099.68	1/2	4,780.61	1/2	4,421.47	1/2	4,062.34	1/2	3,703.20	1/2	3,344.06	1/2	2,984.93	1/2	2,625.79		
3/4	3/4	3/4	3/4	5,096.57	3/4	4,773.13	3/4	4,413.99	3/4	4,054.86	3/4	3,695.72	3/4	3,336.58	3/4	2,977.45	3/4	2,618.31		
11	11	11	11	5,093.46	11	4,765.65	11	4,406.51	11	4,047.38	11	3,688.24	11	3,329.10	11	2,969.96	11	2,610.82		
1/4	1/4	1/4	1/4	5,090.34	1/4	4,758.16	1/4	4,399.02	1/4	4,039.89	1/4	3,680.75	1/4	3,321.62	1/4	2,962.48	1/4	2,603.34		
1/2	1/2	1/2	1/2	5,087.23	1/2	4,750.68	1/2	4,391.54	1/2	4,032.41	1/2	3,673.27	1/2	3,314.14	1/2	2,955.00	1/2	2,595.86		
3/4	3/4	3/4	3/4	5,082.88	3/4	4,743.20	3/4	4,384.06	3/4	4,024.93	3/4	3,665.79	3/4	3,306.66	3/4	2,947.52	3/4	2,588.38		

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29163"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	2,580.90	0	2,221.76	0	1,862.62	0	1,503.49	0	1,144.35	0	785.22	0	427.11	0	94.10	0		0	
1/4	2,573.42	1/4	2,214.28	1/4	1,855.14	1/4	1,496.01	1/4	1,136.87	1/4	777.74	1/4	419.83	1/4	87.57	1/4		1/4	
1/2	2,565.94	1/2	2,206.80	1/2	1,847.66	1/2	1,488.53	1/2	1,129.39	1/2	770.26	1/2	412.55	1/2	81.04	1/2		1/2	
3/4	2,558.46	3/4	2,199.32	3/4	1,840.18	3/4	1,481.05	3/4	1,121.91	3/4	762.78	3/4	405.27	3/4	74.50	3/4		3/4	
1	2,550.97	1	2,191.83	1	1,832.70	1	1,473.56	1	1,114.42	1	755.29	1	397.99	1	67.97	1		1	
1/4	2,543.49	1/4	2,184.35	1/4	1,825.22	1/4	1,466.08	1/4	1,106.94	1/4	747.81	1/4	390.71	1/4	61.43	1/4		1/4	
1/2	2,536.01	1/2	2,176.87	1/2	1,817.74	1/2	1,458.60	1/2	1,099.46	1/2	740.33	1/2	383.43	1/2	54.90	1/2		1/2	
3/4	2,528.53	3/4	2,169.39	3/4	1,810.26	3/4	1,451.12	3/4	1,091.98	3/4	732.85	3/4	376.27	3/4	49.22	3/4		3/4	
2	2,521.04	2	2,161.90	2	1,802.77	2	1,443.63	2	1,084.50	2	725.36	2	369.12	2	43.55	2		2	
1/4	2,513.56	1/4	2,154.42	1/4	1,795.29	1/4	1,436.15	1/4	1,077.02	1/4	717.88	1/4	361.96	1/4	37.87	1/4		1/4	
1/2	2,506.08	1/2	2,146.94	1/2	1,787.81	1/2	1,428.67	1/2	1,069.54	1/2	710.40	1/2	354.81	1/2	32.20	1/2		1/2	
3/4	2,498.60	3/4	2,139.46	3/4	1,780.33	3/4	1,421.19	3/4	1,062.06	3/4	702.92	3/4	347.65	3/4	27.99	3/4		3/4	
3	2,491.11	3	2,131.98	3	1,772.84	3	1,413.70	3	1,054.57	3	695.43	3	340.50	3	23.78	3		3	
1/4	2,483.63	1/4	2,124.50	1/4	1,765.36	1/4	1,406.22	1/4	1,047.09	1/4	687.95	1/4	333.34	1/4	19.57	1/4		1/4	
1/2	2,476.15	1/2	2,117.02	1/2	1,757.88	1/2	1,398.74	1/2	1,039.61	1/2	680.47	1/2	326.19	1/2	15.36	1/2		1/2	
3/4	2,468.67	3/4	2,109.54	3/4	1,750.40	3/4	1,391.26	3/4	1,032.13	3/4	672.99	3/4	319.16	3/4		3/4		3/4	
4	2,461.18	4	2,102.05	4	1,742.91	4	1,383.78	4	1,024.64	4	665.50	4	312.13	4		4		4	
1/4	2,453.70	1/4	2,094.57	1/4	1,735.43	1/4	1,376.30	1/4	1,017.16	1/4	658.02	1/4	305.10	1/4		1/4		1/4	
1/2	2,446.22	1/2	2,087.09	1/2	1,727.95	1/2	1,368.82	1/2	1,009.68	1/2	650.54	1/2	298.07	1/2		1/2		1/2	
3/4	2,438.74	3/4	2,079.61	3/4	1,720.47	3/4	1,361.34	3/4	1,002.20	3/4	643.06	3/4	291.04	3/4		3/4		3/4	
5	2,431.26	5	2,072.12	5	1,712.98	5	1,353.85	5	994.71	5	635.58	5	284.00	5		5		5	
1/4	2,423.78	1/4	2,064.64	1/4	1,705.50	1/4	1,346.37	1/4	987.23	1/4	628.10	1/4	276.97	1/4		1/4		1/4	
1/2	2,416.30	1/2	2,057.16	1/2	1,698.02	1/2	1,338.89	1/2	979.75	1/2	620.62	1/2	269.94	1/2		1/2		1/2	
3/4	2,408.82	3/4	2,049.68	3/4	1,690.54	3/4	1,331.41	3/4	972.27	3/4	613.14	3/4	263.03	3/4		3/4		3/4	
6	2,401.33	6	2,042.19	6	1,683.06	6	1,323.92	6	964.78	6	605.65	6	256.13	6		6		6	
1/4	2,393.85	1/4	2,034.71	1/4	1,675.58	1/4	1,316.44	1/4	957.30	1/4	598.17	1/4	249.22	1/4		1/4		1/4	
1/2	2,386.37	1/2	2,027.23	1/2	1,668.10	1/2	1,308.96	1/2	949.82	1/2	590.69	1/2	242.32	1/2		1/2		1/2	
3/4	2,378.89	3/4	2,019.75	3/4	1,660.62	3/4	1,301.48	3/4	942.34	3/4	583.21	3/4	235.41	3/4		3/4		3/4	
7	2,371.40	7	2,012.26	7	1,653.13	7	1,293.99	7	934.86	7	575.72	7	228.50	7		7		7	
1/4	2,363.92	1/4	2,004.78	1/4	1,645.65	1/4	1,286.51	1/4	927.38	1/4	568.24	1/4	221.60	1/4		1/4		1/4	
1/2	2,356.44	1/2	1,997.30	1/2	1,638.17	1/2	1,279.03	1/2	919.90	1/2	560.76	1/2	214.69	1/2		1/2		1/2	
3/4	2,348.96	3/4	1,989.82	3/4	1,630.69	3/4	1,271.55	3/4	912.42	3/4	553.28	3/4	207.91	3/4		3/4		3/4	
8	2,341.47	8	1,982.34	8	1,623.20	8	1,264.06	8	904.93	8	545.79	8	201.12	8		8		8	
1/4	2,333.99	1/4	1,974.86	1/4	1,615.72	1/4	1,256.58	1/4	897.45	1/4	538.31	1/4	194.34	1/4		1/4		1/4	
1/2	2,326.51	1/2	1,967.38	1/2	1,608.24	1/2	1,249.10	1/2	889.97	1/2	530.83	1/2	187.56	1/2		1/2		1/2	
3/4	2,319.03	3/4	1,959.90	3/4	1,600.76	3/4	1,241.62	3/4	882.49	3/4	523.35	3/4	180.78	3/4		3/4		3/4	
9	2,311.54	9	1,952.41	9	1,593.27	9	1,234.14	9	875.00	9	515.86	9	173.99	9		9		9	
1/4	2,304.06	1/4	1,944.93	1/4	1,585.79	1/4	1,226.66	1/4	867.52	1/4	508.38	1/4	167.21	1/4		1/4		1/4	
1/2	2,296.58	1/2	1,937.45	1/2	1,578.31	1/2	1,219.18	1/2	860.04	1/2	500.90	1/2	160.43	1/2		1/2		1/2	
3/4	2,289.10	3/4	1,929.97	3/4	1,570.83	3/4	1,211.70	3/4	852.56	3/4	493.50	3/4	153.77	3/4		3/4		3/4	
10	2,281.62	10	1,922.48	10	1,563.34	10	1,204.21	10	845.07	10	486.09	10	147.11	10		10		10	
1/4	2,274.14	1/4	1,915.00	1/4	1,555.86	1/4	1,196.73	1/4	837.59	1/4	478.69	1/4	140.46	1/4		1/4		1/4	
1/2	2,266.66	1/2	1,907.52	1/2	1,548.38	1/2	1,189.25	1/2	830.11	1/2	471.29	1/2	133.80	1/2		1/2		1/2	
3/4	2,259.18	3/4	1,900.04	3/4	1,540.90	3/4	1,181.77	3/4	822.63	3/4	463.88	3/4	127.14	3/4		3/4		3/4	
11	2,251.69	11	1,892.55	11	1,533.42	11	1,174.28	11	815.14	11	456.48	11	120.48	11		11		11	
1/4	2,244.21	1/4	1,885.07	1/4	1,525.94	1/4	1,166.80	1/4	807.66	1/4	449.07	1/4	113.83	1/4		1/4		1/4	
1/2	2,236.73	1/2	1,877.59	1/2	1,518.46	1/2	1,159.32	1/2	800.18	1/2	441.67	1/2	107.17	1/2		1/2		1/2	
3/4	2,229.25	3/4	1,870.11	3/4	1,510.98	3/4	1,151.84	3/4	792.70	3/4	434.39	3/4	100.64	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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



BARGE "KIRBY 29163"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	5,078.52	0	4,735.72	0	4,376.58	0	4,017.45	0	3,658.31	0	3,299.17	0	2,940.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,074.17	1/4	4,728.23	1/4	4,369.10	1/4	4,009.96	1/4	3,650.82	1/4	3,291.69	1/4	2,932.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,069.81	1/2	4,720.75	1/2	4,361.62	1/2	4,002.48	1/2	3,643.34	1/2	3,284.21	1/2	2,925.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,064.21	3/4	4,713.27	3/4	4,354.14	3/4	3,995.00	3/4	3,635.86	3/4	3,276.73	3/4	2,917.59		
1		1		1		1	5,058.61	1	4,705.79	1	4,346.66	1	3,987.52	1	3,628.38	1	3,269.24	1	2,910.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,053.01	1/4	4,698.30	1/4	4,339.17	1/4	3,980.03	1/4	3,620.90	1/4	3,261.76	1/4	2,902.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,047.41	1/2	4,690.82	1/2	4,331.69	1/2	3,972.55	1/2	3,613.42	1/2	3,254.28	1/2	2,895.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,040.57	3/4	4,683.34	3/4	4,324.21	3/4	3,965.07	3/4	3,605.94	3/4	3,246.80	3/4	2,887.66		
2		2		2		2	5,033.72	2	4,675.86	2	4,316.73	2	3,957.59	2	3,598.46	2	3,239.31	2	2,880.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,026.88	1/4	4,668.38	1/4	4,309.24	1/4	3,950.10	1/4	3,590.97	1/4	3,231.83	1/4	2,872.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,020.03	1/2	4,660.90	1/2	4,301.76	1/2	3,942.62	1/2	3,583.49	1/2	3,224.35	1/2	2,865.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,012.55	3/4	4,653.42	3/4	4,294.28	3/4	3,935.14	3/4	3,576.01	3/4	3,216.87	3/4	2,857.74		
3		3		3		3	5,005.07	3	4,645.94	3	4,286.80	3	3,927.66	3	3,568.53	3	3,209.38	3	2,850.25		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,997.58	1/4	4,638.45	1/4	4,279.31	1/4	3,920.18	1/4	3,561.04	1/4	3,201.90	1/4	2,842.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,990.10	1/2	4,630.97	1/2	4,271.83	1/2	3,912.70	1/2	3,553.56	1/2	3,194.42	1/2	2,835.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,982.62	3/4	4,623.49	3/4	4,264.35	3/4	3,905.22	3/4	3,546.08	3/4	3,186.94	3/4	2,827.81		
4		4		4		4	4,975.14	4	4,616.01	4	4,256.87	4	3,897.74	4	3,538.60	4	3,179.46	4	2,820.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.66	1/4	4,608.52	1/4	4,249.38	1/4	3,890.25	1/4	3,531.11	1/4	3,171.98	1/4	2,812.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,960.18	1/2	4,601.04	1/2	4,241.90	1/2	3,882.77	1/2	3,523.63	1/2	3,164.50	1/2	2,805.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,952.70	3/4	4,593.56	3/4	4,234.42	3/4	3,875.29	3/4	3,516.15	3/4	3,157.02	3/4	2,797.88		
5		5		5		5	4,945.22	5	4,586.08	5	4,226.94	5	3,867.81	5	3,508.67	5	3,149.53	5	2,790.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,937.73	1/4	4,578.59	1/4	4,219.46	1/4	3,860.32	1/4	3,501.18	1/4	3,142.05	1/4	2,782.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,930.25	1/2	4,571.11	1/2	4,211.98	1/2	3,852.84	1/2	3,493.70	1/2	3,134.57	1/2	2,775.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,922.77	3/4	4,563.63	3/4	4,204.50	3/4	3,845.36	3/4	3,486.22	3/4	3,127.09	3/4	2,767.95		
6		6		6		6	4,915.29	6	4,556.15	6	4,197.02	6	3,837.88	6	3,478.74	6	3,119.60	6	2,760.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,907.80	1/4	4,548.66	1/4	4,189.53	1/4	3,830.39	1/4	3,471.26	1/4	3,112.12	1/4	2,752.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,900.32	1/2	4,541.18	1/2	4,182.05	1/2	3,822.91	1/2	3,463.78	1/2	3,104.64	1/2	2,745.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,892.84	3/4	4,533.70	3/4	4,174.57	3/4	3,815.43	3/4	3,456.30	3/4	3,097.16	3/4	2,738.02		
7		7		7		7	4,885.36	7	4,526.22	7	4,167.09	7	3,807.95	7	3,448.82	7	3,089.67	7	2,730.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,877.87	1/4	4,518.74	1/4	4,159.60	1/4	3,800.46	1/4	3,441.33	1/4	3,082.19	1/4	2,723.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,870.39	1/2	4,511.26	1/2	4,152.12	1/2	3,792.98	1/2	3,433.85	1/2	3,074.71	1/2	2,715.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,862.91	3/4	4,503.78	3/4	4,144.64	3/4	3,785.50	3/4	3,426.37	3/4	3,067.23	3/4	2,708.10		
8		8		8		8	4,855.43	8	4,496.30	8	4,137.16	8	3,778.02	8	3,418.89	8	3,059.74	8	2,700.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,847.94	1/4	4,488.81	1/4	4,129.67	1/4	3,770.54	1/4	3,411.40	1/4	3,052.26	1/4	2,693.13		
1/2	1/2	1/2	1/2	1/2	1/2	5,109.63	4,840.46	1/2	4,481.33	1/2	4,122.19	1/2	3,763.06	1/2	3,403.92	1/2	3,044.78	1/2	2,685.65		
3/4	3/4	3/4	3/4	3/4	3/4	5,109.01	4,832.98	3/4	4,473.85	3/4	4,114.71	3/4	3,755.58	3/4	3,396.44	3/4	3,037.30	3/4	2,678.17		
9		9		9		9	4,825.50	9	4,466.37	9	4,107.23	9	3,748.10	9	3,388.96	9	3,029.82	9	2,670.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,107.76	1/4	4,818.02	1/4	4,458.88	1/4	4,099.74	1/4	3,740.61	1/4	3,381.47	1/4	3,022.34	1/4	2,663.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,107.14	1/2	4,810.54	1/2	4,451.40	1/2	4,092.26	1/2	3,733.13	1/2	3,373.99	1/2	3,014.86	1/2	2,655.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,105.28	3/4	4,803.06	3/4	4,443.92	3/4	4,084.78	3/4	3,725.65	3/4	3,366.51	3/4	3,007.38	3/4	2,648.24
10		10		10		10	4,795.58	10	4,436.44	10	4,077.30	10	3,718.17	10	3,359.03	10	2,999.89	10	2,640.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,101.55	1/4	4,788.09	1/4	4,428.95	1/4	4,069.82	1/4	3,710.68	1/4	3,351.54	1/4	2,992.41	1/4	2,633.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,099.68	1/2	4,780.61	1/2	4,421.47	1/2	4,062.34	1/2	3,703.20	1/2	3,344.06	1/2	2,984.93	1/2	2,625.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,096.57	3/4	4,773.13	3/4	4,413.99	3/4	4,054.86	3/4	3,695.72	3/4	3,336.58	3/4	2,977.45	3/4	2,618.31
11		11		11		11	5,093.46	11	4,765.65	11	4,406.51	11	4,047.38	11	3,688.24	11	3,329.10	11	2,969.96	11	2,610.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.34	1/4	4,758.16	1/4	4,399.02	1/4	4,039.89	1/4	3,680.75	1/4	3,321.62	1/4	2,962.48	1/4	2,603.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.23	1/2	4,750.68	1/2	4,391.54	1/2	4,032.41	1/2	3,673.27	1/2	3,314.14	1/2	2,955.00	1/2	2,595.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,082.88	3/4	4,743.20	3/4	4,384.06	3/4	4,024.93	3/4	3,665.79	3/4	3,306.66	3/4	2,947.52	3/4	2,588.38

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29163"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	2,580.90	0	2,221.76	0	1,862.62	0	1,503.49	0	1,144.35	0	785.22	0	427.11	0	94.10	0		0	
1/4	2,573.42	1/4	2,214.28	1/4	1,855.14	1/4	1,496.01	1/4	1,136.87	1/4	777.74	1/4	419.83	1/4	87.57	1/4		1/4	
1/2	2,565.94	1/2	2,206.80	1/2	1,847.66	1/2	1,488.53	1/2	1,129.39	1/2	770.26	1/2	412.55	1/2	81.04	1/2		1/2	
3/4	2,558.46	3/4	2,199.32	3/4	1,840.18	3/4	1,481.05	3/4	1,121.91	3/4	762.78	3/4	405.27	3/4	74.50	3/4		3/4	
1	2,550.97	1	2,191.83	1	1,832.70	1	1,473.56	1	1,114.42	1	755.29	1	397.99	1	67.97	1		1	
1/4	2,543.49	1/4	2,184.35	1/4	1,825.22	1/4	1,466.08	1/4	1,106.94	1/4	747.81	1/4	390.71	1/4	61.43	1/4		1/4	
1/2	2,536.01	1/2	2,176.87	1/2	1,817.74	1/2	1,458.60	1/2	1,099.46	1/2	740.33	1/2	383.43	1/2	54.90	1/2		1/2	
3/4	2,528.53	3/4	2,169.39	3/4	1,810.26	3/4	1,451.12	3/4	1,091.98	3/4	732.85	3/4	376.27	3/4	49.22	3/4		3/4	
2	2,521.04	2	2,161.90	2	1,802.77	2	1,443.63	2	1,084.50	2	725.36	2	369.12	2	43.55	2		2	
1/4	2,513.56	1/4	2,154.42	1/4	1,795.29	1/4	1,436.15	1/4	1,077.02	1/4	717.88	1/4	361.96	1/4	37.87	1/4		1/4	
1/2	2,506.08	1/2	2,146.94	1/2	1,787.81	1/2	1,428.67	1/2	1,069.54	1/2	710.40	1/2	354.81	1/2	32.20	1/2		1/2	
3/4	2,498.60	3/4	2,139.46	3/4	1,780.33	3/4	1,421.19	3/4	1,062.06	3/4	702.92	3/4	347.65	3/4	27.99	3/4		3/4	
3	2,491.11	3	2,131.98	3	1,772.84	3	1,413.70	3	1,054.57	3	695.43	3	340.50	3	23.78	3		3	
1/4	2,483.63	1/4	2,124.50	1/4	1,765.36	1/4	1,406.22	1/4	1,047.09	1/4	687.95	1/4	333.34	1/4	19.57	1/4		1/4	
1/2	2,476.15	1/2	2,117.02	1/2	1,757.88	1/2	1,398.74	1/2	1,039.61	1/2	680.47	1/2	326.19	1/2	15.36	1/2		1/2	
3/4	2,468.67	3/4	2,109.54	3/4	1,750.40	3/4	1,391.26	3/4	1,032.13	3/4	672.99	3/4	319.16	3/4		3/4		3/4	
4	2,461.18	4	2,102.05	4	1,742.91	4	1,383.78	4	1,024.64	4	665.50	4	312.13	4		4		4	
1/4	2,453.70	1/4	2,094.57	1/4	1,735.43	1/4	1,376.30	1/4	1,017.16	1/4	658.02	1/4	305.10	1/4		1/4		1/4	
1/2	2,446.22	1/2	2,087.09	1/2	1,727.95	1/2	1,368.82	1/2	1,009.68	1/2	650.54	1/2	298.07	1/2		1/2		1/2	
3/4	2,438.74	3/4	2,079.61	3/4	1,720.47	3/4	1,361.34	3/4	1,002.20	3/4	643.06	3/4	291.04	3/4		3/4		3/4	
5	2,431.26	5	2,072.12	5	1,712.98	5	1,353.85	5	994.71	5	635.58	5	284.00	5		5		5	
1/4	2,423.78	1/4	2,064.64	1/4	1,705.50	1/4	1,346.37	1/4	987.23	1/4	628.10	1/4	276.97	1/4		1/4		1/4	
1/2	2,416.30	1/2	2,057.16	1/2	1,698.02	1/2	1,338.89	1/2	979.75	1/2	620.62	1/2	269.94	1/2		1/2		1/2	
3/4	2,408.82	3/4	2,049.68	3/4	1,690.54	3/4	1,331.41	3/4	972.27	3/4	613.14	3/4	263.03	3/4		3/4		3/4	
6	2,401.33	6	2,042.19	6	1,683.06	6	1,323.92	6	964.78	6	605.65	6	256.13	6		6		6	
1/4	2,393.85	1/4	2,034.71	1/4	1,675.58	1/4	1,316.44	1/4	957.30	1/4	598.17	1/4	249.22	1/4		1/4		1/4	
1/2	2,386.37	1/2	2,027.23	1/2	1,668.10	1/2	1,308.96	1/2	949.82	1/2	590.69	1/2	242.32	1/2		1/2		1/2	
3/4	2,378.89	3/4	2,019.75	3/4	1,660.62	3/4	1,301.48	3/4	942.34	3/4	583.21	3/4	235.41	3/4		3/4		3/4	
7	2,371.40	7	2,012.26	7	1,653.13	7	1,293.99	7	934.86	7	575.72	7	228.50	7		7		7	
1/4	2,363.92	1/4	2,004.78	1/4	1,645.65	1/4	1,286.51	1/4	927.38	1/4	568.24	1/4	221.60	1/4		1/4		1/4	
1/2	2,356.44	1/2	1,997.30	1/2	1,638.17	1/2	1,279.03	1/2	919.90	1/2	560.76	1/2	214.69	1/2		1/2		1/2	
3/4	2,348.96	3/4	1,989.82	3/4	1,630.69	3/4	1,271.55	3/4	912.42	3/4	553.28	3/4	207.91	3/4		3/4		3/4	
8	2,341.47	8	1,982.34	8	1,623.20	8	1,264.06	8	904.93	8	545.79	8	201.12	8		8		8	
1/4	2,333.99	1/4	1,974.86	1/4	1,615.72	1/4	1,256.58	1/4	897.45	1/4	538.31	1/4	194.34	1/4		1/4		1/4	
1/2	2,326.51	1/2	1,967.38	1/2	1,608.24	1/2	1,249.10	1/2	889.97	1/2	530.83	1/2	187.56	1/2		1/2		1/2	
3/4	2,319.03	3/4	1,959.90	3/4	1,600.76	3/4	1,241.62	3/4	882.49	3/4	523.35	3/4	180.78	3/4		3/4		3/4	
9	2,311.54	9	1,952.41	9	1,593.27	9	1,234.14	9	875.00	9	515.86	9	173.99	9		9		9	
1/4	2,304.06	1/4	1,944.93	1/4	1,585.79	1/4	1,226.66	1/4	867.52	1/4	508.38	1/4	167.21	1/4		1/4		1/4	
1/2	2,296.58	1/2	1,937.45	1/2	1,578.31	1/2	1,219.18	1/2	860.04	1/2	500.90	1/2	160.43	1/2		1/2		1/2	
3/4	2,289.10	3/4	1,929.97	3/4	1,570.83	3/4	1,211.70	3/4	852.56	3/4	493.50	3/4	153.77	3/4		3/4		3/4	
10	2,281.62	10	1,922.48	10	1,563.34	10	1,204.21	10	845.07	10	486.09	10	147.11	10		10		10	
1/4	2,274.14	1/4	1,915.00	1/4	1,555.86	1/4	1,196.73	1/4	837.59	1/4	478.69	1/4	140.46	1/4		1/4		1/4	
1/2	2,266.66	1/2	1,907.52	1/2	1,548.38	1/2	1,189.25	1/2	830.11	1/2	471.29	1/2	133.80	1/2		1/2		1/2	
3/4	2,259.18	3/4	1,900.04	3/4	1,540.90	3/4	1,181.77	3/4	822.63	3/4	463.88	3/4	127.14	3/4		3/4		3/4	
11	2,251.69	11	1,892.55	11	1,533.42	11	1,174.28	11	815.14	11	456.48	11	120.48	11		11		11	
1/4	2,244.21	1/4	1,885.07	1/4	1,525.94	1/4	1,166.80	1/4	807.66	1/4	449.07	1/4	113.83	1/4		1/4		1/4	
1/2	2,236.73	1/2	1,877.59	1/2	1,518.46	1/2	1,159.32	1/2	800.18	1/2	441.67	1/2	107.17	1/2		1/2		1/2	
3/4	2,229.25	3/4	1,870.11	3/4	1,510.98	3/4	1,151.84	3/4	792.70	3/4	434.39	3/4	100.64	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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



BARGE "KIRBY 29163"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,117.60	0	4,774.53	0	4,415.34	0	4,056.16	0	3,696.97	0	3,337.79	0	2,978.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,113.22	1/4	4,767.04	1/4	4,407.86	1/4	4,048.68	1/4	3,689.49	1/4	3,330.31	1/4	2,971.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,108.85	1/2	4,759.56	1/2	4,400.38	1/2	4,041.20	1/2	3,682.01	1/2	3,322.83	1/2	2,963.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,103.23	3/4	4,752.08	3/4	4,392.90	3/4	4,033.71	3/4	3,674.53	3/4	3,315.35	3/4	2,956.16		
1		1		1		1	4,744.59	1	4,385.41	1	4,026.23	1	3,667.04	1	3,307.86	1	2,948.67				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,091.98	1/4	4,737.11	1/4	4,377.93	1/4	4,018.74	1/4	3,659.56	1/4	3,300.38	1/4	2,941.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,086.36	1/2	4,729.63	1/2	4,370.45	1/2	4,011.26	1/2	3,652.08	1/2	3,292.90	1/2	2,933.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,079.49	3/4	4,722.15	3/4	4,362.97	3/4	4,003.78	3/4	3,644.60	3/4	3,285.41	3/4	2,926.23		
2		2		2		2	5,072.62	2	4,714.66	2	4,355.48	2	3,996.29	2	3,637.11	2	3,277.93	2	2,918.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,065.75	1/4	4,707.18	1/4	4,348.00	1/4	3,988.81	1/4	3,629.63	1/4	3,270.44	1/4	2,911.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,058.88	1/2	4,699.70	1/2	4,340.52	1/2	3,981.33	1/2	3,622.15	1/2	3,262.96	1/2	2,903.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,051.40	3/4	4,692.22	3/4	4,333.03	3/4	3,973.85	3/4	3,614.67	3/4	3,255.48	3/4	2,896.30		
3		3		3		3	5,043.91	3	4,684.73	3	4,325.55	3	3,966.36	3	3,607.18	3	3,247.99	3	2,888.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,036.43	1/4	4,677.25	1/4	4,318.06	1/4	3,958.88	1/4	3,599.70	1/4	3,240.51	1/4	2,881.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,028.95	1/2	4,669.77	1/2	4,310.58	1/2	3,951.40	1/2	3,592.22	1/2	3,233.03	1/2	2,873.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,021.47	3/4	4,662.29	3/4	4,303.10	3/4	3,943.92	3/4	3,584.73	3/4	3,225.55	3/4	2,866.37		
4		4		4		4	5,013.98	4	4,654.80	4	4,295.61	4	3,936.43	4	3,577.25	4	3,218.06	4	2,858.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,006.50	1/4	4,647.32	1/4	4,288.13	1/4	3,928.95	1/4	3,569.76	1/4	3,210.58	1/4	2,851.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.02	1/2	4,639.84	1/2	4,280.65	1/2	3,921.47	1/2	3,562.28	1/2	3,203.10	1/2	2,843.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.54	3/4	4,632.35	3/4	4,273.17	3/4	3,913.99	3/4	3,554.80	3/4	3,195.62	3/4	2,836.43		
5		5		5		5	4,984.05	5	4,624.87	5	4,265.68	5	3,906.50	5	3,547.31	5	3,188.13	5	2,828.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.57	1/4	4,617.38	1/4	4,258.20	1/4	3,899.02	1/4	3,539.83	1/4	3,180.65	1/4	2,821.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,969.09	1/2	4,609.90	1/2	4,250.72	1/2	3,891.54	1/2	3,532.35	1/2	3,173.17	1/2	2,813.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,961.61	3/4	4,602.42	3/4	4,243.24	3/4	3,884.05	3/4	3,524.87	3/4	3,165.69	3/4	2,806.50		
6		6		6		6	4,954.12	6	4,594.93	6	4,235.75	6	3,876.57	6	3,517.38	6	3,158.20	6	2,799.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.64	1/4	4,587.45	1/4	4,228.27	1/4	3,869.08	1/4	3,509.90	1/4	3,150.72	1/4	2,791.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.16	1/2	4,579.97	1/2	4,220.79	1/2	3,861.60	1/2	3,502.42	1/2	3,143.24	1/2	2,784.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,931.67	3/4	4,572.49	3/4	4,213.31	3/4	3,854.12	3/4	3,494.94	3/4	3,135.75	3/4	2,776.57		
7		7		7		7	4,924.19	7	4,565.00	7	4,205.82	7	3,846.63	7	3,487.45	7	3,128.27	7	2,769.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.70	1/4	4,557.52	1/4	4,198.34	1/4	3,839.15	1/4	3,479.97	1/4	3,120.78	1/4	2,761.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,909.22	1/2	4,550.04	1/2	4,190.86	1/2	3,831.67	1/2	3,472.49	1/2	3,113.30	1/2	2,754.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.74	3/4	4,542.56	3/4	4,183.37	3/4	3,824.19	3/4	3,465.01	3/4	3,105.82	3/4	2,746.64		
8		8		8		8	4,894.25	8	4,535.07	8	4,175.89	8	3,816.70	8	3,457.52	8	3,098.33	8	2,739.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,886.77	1/4	4,527.59	1/4	4,168.40	1/4	3,809.22	1/4	3,450.04	1/4	3,090.85	1/4	2,731.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,148.82	1/2	4,879.29	1/2	4,520.11	1/2	4,160.92	1/2	3,801.74	1/2	3,442.56	1/2	3,083.37	1/2	2,724.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,148.20	3/4	4,871.81	3/4	4,512.63	3/4	4,153.44	3/4	3,794.26	3/4	3,435.07	3/4	3,075.89	3/4	2,716.71
9		9		9		9	5,147.57	9	4,864.32	9	4,505.14	9	3,786.77	9	3,427.59	9	3,068.40	9	2,709.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,146.95	1/4	4,856.84	1/4	4,497.66	1/4	4,138.47	1/4	3,779.29	1/4	3,420.10	1/4	3,060.92	1/4	2,701.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,146.32	1/2	4,849.36	1/2	4,490.18	1/2	4,130.99	1/2	3,771.81	1/2	3,412.62	1/2	3,053.44	1/2	2,694.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,144.45	3/4	4,841.88	3/4	4,482.69	3/4	4,123.51	3/4	3,764.33	3/4	3,405.14	3/4	3,045.96	3/4	2,686.77
10		10		10		10	5,142.58	10	4,834.39	10	4,475.21	10	4,116.02	10	3,756.84	10	3,397.65	10	3,038.47	10	2,679.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,140.70	1/4	4,826.91	1/4	4,467.72	1/4	4,108.54	1/4	3,749.36	1/4	3,390.17	1/4	3,030.99	1/4	2,671.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,138.83	1/2	4,819.43	1/2	4,460.24	1/2	4,101.06	1/2	3,741.88	1/2	3,382.69	1/2	3,023.51	1/2	2,664.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.71	3/4	4,811.95	3/4	4,452.76	3/4	4,093.58	3/4	3,734.39	3/4	3,375.21	3/4	3,016.03	3/4	2,656.84
11		11		11		11	5,132.59	11	4,804.46	11	4,445.27	11	4,086.09	11	3,726.91	11	3,367.72	11	3,008.54	11	2,649.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,129.46	1/4	4,796.98	1/4	4,437.79	1/4	4,078.61	1/4	3,719.42	1/4	3,360.24	1/4	3,001.06	1/4	2,641.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,126.34	1/2	4,789.50	1/2	4,430.31	1/2	4,071.13	1/2	3,711.94	1/2	3,352.76	1/2	2,993.58	1/2	2,634.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,121.97	3/4	4,782.01	3/4	4,422.83	3/4	4,063.65	3/4	3,704.46	3/4	3,345.28	3/4	2,986.09	3/4	2,626.91

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29163"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	2,619.42	0	2,260.24	0	1,901.05	0	1,541.87	0	1,182.69	0	823.50	0	464.32	0	105.13	0		0	
1/4	2,611.94	1/4	2,252.76	1/4	1,893.57	1/4	1,534.39	1/4	1,175.20	1/4	816.02	1/4	456.84	1/4	97.65	1/4		1/4	
1/2	2,604.46	1/2	2,245.28	1/2	1,886.09	1/2	1,526.91	1/2	1,167.72	1/2	808.54	1/2	449.36	1/2	90.17	1/2		1/2	
3/4	2,596.98	3/4	2,237.79	3/4	1,878.61	3/4	1,519.43	3/4	1,160.24	3/4	801.06	3/4	441.87	3/4	82.69	3/4		3/4	
1	2,589.49	1	2,230.31	1	1,871.12	1	1,511.94	1	1,152.75	1	793.57	1	434.39	1	75.20	1		1	
1/4	2,582.01	1/4	2,222.82	1/4	1,863.64	1/4	1,504.46	1/4	1,145.27	1/4	786.09	1/4	426.90	1/4	67.72	1/4		1/4	
1/2	2,574.53	1/2	2,215.34	1/2	1,856.16	1/2	1,496.98	1/2	1,137.79	1/2	778.61	1/2	419.42	1/2	60.24	1/2		1/2	
3/4	2,567.05	3/4	2,207.86	3/4	1,848.68	3/4	1,489.49	3/4	1,130.31	3/4	771.13	3/4	411.94	3/4	53.68	3/4		3/4	
2	2,559.56	2	2,200.37	2	1,841.19	2	1,482.01	2	1,122.82	2	763.64	2	404.45	2	47.12	2		2	
1/4	2,552.08	1/4	2,192.89	1/4	1,833.71	1/4	1,474.52	1/4	1,115.34	1/4	756.16	1/4	396.97	1/4	40.57	1/4		1/4	
1/2	2,544.60	1/2	2,185.41	1/2	1,826.23	1/2	1,467.04	1/2	1,107.86	1/2	748.68	1/2	389.49	1/2	34.01	1/2		1/2	
3/4	2,537.11	3/4	2,177.93	3/4	1,818.75	3/4	1,459.56	3/4	1,100.38	3/4	741.19	3/4	382.01	3/4	29.32	3/4		3/4	
3	2,529.63	3	2,170.44	3	1,811.26	3	1,452.07	3	1,092.89	3	733.71	3	374.52	3	24.64	3		3	
1/4	2,522.14	1/4	2,162.96	1/4	1,803.78	1/4	1,444.59	1/4	1,085.41	1/4	726.22	1/4	367.04	1/4	19.95	1/4		1/4	
1/2	2,514.66	1/2	2,155.48	1/2	1,796.30	1/2	1,437.11	1/2	1,077.93	1/2	718.74	1/2	359.56	1/2	15.27	1/2		1/2	
3/4	2,507.18	3/4	2,148.00	3/4	1,788.81	3/4	1,429.63	3/4	1,070.45	3/4	711.26	3/4	352.08	3/4		3/4		3/4	
4	2,499.69	4	2,140.51	4	1,781.33	4	1,422.14	4	1,062.96	4	703.77	4	344.59	4		4		4	
1/4	2,492.21	1/4	2,133.03	1/4	1,773.84	1/4	1,414.66	1/4	1,055.48	1/4	696.29	1/4	337.11	1/4		1/4		1/4	
1/2	2,484.73	1/2	2,125.55	1/2	1,766.36	1/2	1,407.18	1/2	1,048.00	1/2	688.81	1/2	329.63	1/2		1/2		1/2	
3/4	2,477.25	3/4	2,118.07	3/4	1,758.88	3/4	1,399.70	3/4	1,040.51	3/4	681.33	3/4	322.15	3/4		3/4		3/4	
5	2,469.76	5	2,110.58	5	1,751.39	5	1,392.21	5	1,033.03	5	673.84	5	314.66	5		5		5	
1/4	2,462.28	1/4	2,103.10	1/4	1,743.91	1/4	1,384.73	1/4	1,025.54	1/4	666.36	1/4	307.18	1/4		1/4		1/4	
1/2	2,454.80	1/2	2,095.62	1/2	1,736.43	1/2	1,377.25	1/2	1,018.06	1/2	658.88	1/2	299.70	1/2		1/2		1/2	
3/4	2,447.32	3/4	2,088.13	3/4	1,728.95	3/4	1,369.77	3/4	1,010.58	3/4	651.40	3/4	292.21	3/4		3/4		3/4	
6	2,439.83	6	2,080.65	6	1,721.46	6	1,362.28	6	1,003.09	6	643.91	6	284.73	6		6		6	
1/4	2,432.35	1/4	2,073.16	1/4	1,713.98	1/4	1,354.80	1/4	995.61	1/4	636.43	1/4	277.24	1/4		1/4		1/4	
1/2	2,424.87	1/2	2,065.68	1/2	1,706.50	1/2	1,347.32	1/2	988.13	1/2	628.95	1/2	269.76	1/2		1/2		1/2	
3/4	2,417.39	3/4	2,058.20	3/4	1,699.02	3/4	1,339.83	3/4	980.65	3/4	621.47	3/4	262.28	3/4		3/4		3/4	
7	2,409.90	7	2,050.71	7	1,691.53	7	1,332.35	7	973.16	7	613.98	7	254.79	7		7		7	
1/4	2,402.42	1/4	2,043.23	1/4	1,684.05	1/4	1,324.86	1/4	965.68	1/4	606.50	1/4	247.31	1/4		1/4		1/4	
1/2	2,394.94	1/2	2,035.75	1/2	1,676.57	1/2	1,317.38	1/2	958.20	1/2	599.02	1/2	239.83	1/2		1/2		1/2	
3/4	2,387.45	3/4	2,028.27	3/4	1,669.09	3/4	1,309.90	3/4	950.72	3/4	591.53	3/4	232.35	3/4		3/4		3/4	
8	2,379.97	8	2,020.78	8	1,661.60	8	1,302.41	8	943.23	8	584.05	8	224.86	8		8		8	
1/4	2,372.48	1/4	2,013.30	1/4	1,654.12	1/4	1,294.93	1/4	935.75	1/4	576.56	1/4	217.38	1/4		1/4		1/4	
1/2	2,365.00	1/2	2,005.82	1/2	1,646.64	1/2	1,287.45	1/2	928.27	1/2	569.08	1/2	209.90	1/2		1/2		1/2	
3/4	2,357.52	3/4	1,998.34	3/4	1,639.15	3/4	1,279.97	3/4	920.79	3/4	561.60	3/4	202.42	3/4		3/4		3/4	
9	2,350.03	9	1,990.85	9	1,631.67	9	1,272.48	9	913.30	9	554.11	9	194.93	9		9		9	
1/4	2,342.55	1/4	1,983.37	1/4	1,624.18	1/4	1,265.00	1/4	905.82	1/4	546.63	1/4	187.45	1/4		1/4		1/4	
1/2	2,335.07	1/2	1,975.89	1/2	1,616.70	1/2	1,257.52	1/2	898.34	1/2	539.15	1/2	179.97	1/2		1/2		1/2	
3/4	2,327.59	3/4	1,968.41	3/4	1,609.22	3/4	1,250.04	3/4	890.85	3/4	531.67	3/4	172.49	3/4		3/4		3/4	
10	2,320.10	10	1,960.92	10	1,601.73	10	1,242.55	10	883.37	10	524.18	10	165.00	10		10		10	
1/4	2,312.62	1/4	1,953.44	1/4	1,594.25	1/4	1,235.07	1/4	875.88	1/4	516.70	1/4	157.52	1/4		1/4		1/4	
1/2	2,305.14	1/2	1,945.96	1/2	1,586.77	1/2	1,227.59	1/2	868.40	1/2	509.22	1/2	150.04	1/2		1/2		1/2	
3/4	2,297.66	3/4	1,938.47	3/4	1,579.29	3/4	1,220.11	3/4	860.92	3/4	501.74	3/4	142.55	3/4		3/4		3/4	
11	2,290.17	11	1,930.99	11	1,571.80	11	1,212.62	11	853.43	11	494.25	11	135.07	11		11		11	
1/4	2,282.69	1/4	1,923.50	1/4	1,564.32	1/4	1,205.14	1/4	845.95	1/4	486.77	1/4	127.58	1/4		1/4		1/4	
1/2	2,275.21	1/2	1,916.02	1/2	1,556.84	1/2	1,197.66	1/2	838.47	1/2	479.29	1/2	120.10	1/2		1/2		1/2	
3/4	2,267.73	3/4	1,908.54	3/4	1,549.36	3/4	1,190.17	3/4	830.99	3/4	471.81	3/4	112.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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



BARGE "KIRBY 29163"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,117.60	0	4,774.53	0	4,415.34	0	4,056.16	0	3,696.97	0	3,337.79	0	2,978.61		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,113.22	1/4	4,767.04	1/4	4,407.86	1/4	4,048.68	1/4	3,689.49	1/4	3,330.31	1/4	2,971.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,108.85	1/2	4,759.56	1/2	4,400.38	1/2	4,041.20	1/2	3,682.01	1/2	3,322.83	1/2	2,963.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,103.23	3/4	4,752.08	3/4	4,392.90	3/4	4,033.71	3/4	3,674.53	3/4	3,315.35	3/4	2,956.16		
1		1		1		1	4,744.59	1	4,385.41	1	4,026.23	1	3,667.04	1	3,307.86	1	2,948.67				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,091.98	1/4	4,737.11	1/4	4,377.93	1/4	4,018.74	1/4	3,659.56	1/4	3,300.38	1/4	2,941.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,086.36	1/2	4,729.63	1/2	4,370.45	1/2	4,011.26	1/2	3,652.08	1/2	3,292.90	1/2	2,933.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,079.49	3/4	4,722.15	3/4	4,362.97	3/4	4,003.78	3/4	3,644.60	3/4	3,285.41	3/4	2,926.23		
2		2		2		2	5,072.62	2	4,714.66	2	4,355.48	2	3,996.29	2	3,637.11	2	3,277.93	2	2,918.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,065.75	1/4	4,707.18	1/4	4,348.00	1/4	3,988.81	1/4	3,629.63	1/4	3,270.44	1/4	2,911.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,058.88	1/2	4,699.70	1/2	4,340.52	1/2	3,981.33	1/2	3,622.15	1/2	3,262.96	1/2	2,903.78		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,051.40	3/4	4,692.22	3/4	4,333.03	3/4	3,973.85	3/4	3,614.67	3/4	3,255.48	3/4	2,896.30		
3		3		3		3	5,043.91	3	4,684.73	3	4,325.55	3	3,966.36	3	3,607.18	3	3,247.99	3	2,888.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,036.43	1/4	4,677.25	1/4	4,318.06	1/4	3,958.88	1/4	3,599.70	1/4	3,240.51	1/4	2,881.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,028.95	1/2	4,669.77	1/2	4,310.58	1/2	3,951.40	1/2	3,592.22	1/2	3,233.03	1/2	2,873.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,021.47	3/4	4,662.29	3/4	4,303.10	3/4	3,943.92	3/4	3,584.73	3/4	3,225.55	3/4	2,866.37		
4		4		4		4	5,013.98	4	4,654.80	4	4,295.61	4	3,936.43	4	3,577.25	4	3,218.06	4	2,858.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,006.50	1/4	4,647.32	1/4	4,288.13	1/4	3,928.95	1/4	3,569.76	1/4	3,210.58	1/4	2,851.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.02	1/2	4,639.84	1/2	4,280.65	1/2	3,921.47	1/2	3,562.28	1/2	3,203.10	1/2	2,843.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.54	3/4	4,632.35	3/4	4,273.17	3/4	3,913.99	3/4	3,554.80	3/4	3,195.62	3/4	2,836.43		
5		5		5		5	4,984.05	5	4,624.87	5	4,265.68	5	3,906.50	5	3,547.31	5	3,188.13	5	2,828.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.57	1/4	4,617.38	1/4	4,258.20	1/4	3,899.02	1/4	3,539.83	1/4	3,180.65	1/4	2,821.46		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,969.09	1/2	4,609.90	1/2	4,250.72	1/2	3,891.54	1/2	3,532.35	1/2	3,173.17	1/2	2,813.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,961.61	3/4	4,602.42	3/4	4,243.24	3/4	3,884.05	3/4	3,524.87	3/4	3,165.69	3/4	2,806.50		
6		6		6		6	4,954.12	6	4,594.93	6	4,235.75	6	3,876.57	6	3,517.38	6	3,158.20	6	2,799.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.64	1/4	4,587.45	1/4	4,228.27	1/4	3,869.08	1/4	3,509.90	1/4	3,150.72	1/4	2,791.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.16	1/2	4,579.97	1/2	4,220.79	1/2	3,861.60	1/2	3,502.42	1/2	3,143.24	1/2	2,784.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,931.67	3/4	4,572.49	3/4	4,213.31	3/4	3,854.12	3/4	3,494.94	3/4	3,135.75	3/4	2,776.57		
7		7		7		7	4,924.19	7	4,565.00	7	4,205.82	7	3,846.63	7	3,487.45	7	3,128.27	7	2,769.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.70	1/4	4,557.52	1/4	4,198.34	1/4	3,839.15	1/4	3,479.97	1/4	3,120.78	1/4	2,761.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,909.22	1/2	4,550.04	1/2	4,190.86	1/2	3,831.67	1/2	3,472.49	1/2	3,113.30	1/2	2,754.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.74	3/4	4,542.56	3/4	4,183.37	3/4	3,824.19	3/4	3,465.01	3/4	3,105.82	3/4	2,746.64		
8		8		8		8	4,894.25	8	4,535.07	8	4,175.89	8	3,816.70	8	3,457.52	8	3,098.33	8	2,739.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,886.77	1/4	4,527.59	1/4	4,168.40	1/4	3,809.22	1/4	3,450.04	1/4	3,090.85	1/4	2,731.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,148.82	1/2	4,879.29	1/2	4,520.11	1/2	4,160.92	1/2	3,801.74	1/2	3,442.56	1/2	3,083.37	1/2	2,724.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,148.20	3/4	4,871.81	3/4	4,512.63	3/4	4,153.44	3/4	3,794.26	3/4	3,435.07	3/4	3,075.89	3/4	2,716.71
9		9		9		9	5,147.57	9	4,864.32	9	4,505.14	9	3,786.77	9	3,427.59	9	3,068.40	9	2,709.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,146.95	1/4	4,856.84	1/4	4,497.66	1/4	4,138.47	1/4	3,779.29	1/4	3,420.10	1/4	3,060.92	1/4	2,701.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,146.32	1/2	4,849.36	1/2	4,490.18	1/2	4,130.99	1/2	3,771.81	1/2	3,412.62	1/2	3,053.44	1/2	2,694.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,144.45	3/4	4,841.88	3/4	4,482.69	3/4	4,123.51	3/4	3,764.33	3/4	3,405.14	3/4	3,045.96	3/4	2,686.77
10		10		10		10	5,142.58	10	4,834.39	10	4,475.21	10	4,116.02	10	3,756.84	10	3,397.65	10	3,038.47	10	2,679.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,140.70	1/4	4,826.91	1/4	4,467.72	1/4	4,108.54	1/4	3,749.36	1/4	3,390.17	1/4	3,030.99	1/4	2,671.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,138.83	1/2	4,819.43	1/2	4,460.24	1/2	4,101.06	1/2	3,741.88	1/2	3,382.69	1/2	3,023.51	1/2	2,664.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.71	3/4	4,811.95	3/4	4,452.76	3/4	4,093.58	3/4	3,734.39	3/4	3,375.21	3/4	3,016.03	3/4	2,656.84
11		11		11		11	5,132.59	11	4,804.46	11	4,445.27	11	4,086.09	11	3,726.91	11	3,367.72	11	3,008.54	11	2,649.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,129.46	1/4	4,796.98	1/4	4,437.79	1/4	4,078.61	1/4	3,719.42	1/4	3,360.24	1/4	3,001.06	1/4	2,641.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,126.34	1/2	4,789.50	1/2	4,430.31	1/2	4,071.13	1/2	3,711.94	1/2	3,352.76	1/2	2,993.58	1/2	2,634.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,121.97	3/4	4,782.01	3/4	4,422.83	3/4	4,063.65	3/4	3,704.46	3/4	3,345.28	3/4	2,986.09	3/4	2,626.91

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29163"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	2,619.42	0	2,260.24	0	1,901.05	0	1,541.87	0	1,182.69	0	823.50	0	464.32	0	105.13	0		0	
1/4	2,611.94	1/4	2,252.76	1/4	1,893.57	1/4	1,534.39	1/4	1,175.20	1/4	816.02	1/4	456.84	1/4	97.65	1/4		1/4	
1/2	2,604.46	1/2	2,245.28	1/2	1,886.09	1/2	1,526.91	1/2	1,167.72	1/2	808.54	1/2	449.36	1/2	90.17	1/2		1/2	
3/4	2,596.98	3/4	2,237.79	3/4	1,878.61	3/4	1,519.43	3/4	1,160.24	3/4	801.06	3/4	441.87	3/4	82.69	3/4		3/4	
1	2,589.49	1	2,230.31	1	1,871.12	1	1,511.94	1	1,152.75	1	793.57	1	434.39	1	75.20	1		1	
1/4	2,582.01	1/4	2,222.82	1/4	1,863.64	1/4	1,504.46	1/4	1,145.27	1/4	786.09	1/4	426.90	1/4	67.72	1/4		1/4	
1/2	2,574.53	1/2	2,215.34	1/2	1,856.16	1/2	1,496.98	1/2	1,137.79	1/2	778.61	1/2	419.42	1/2	60.24	1/2		1/2	
3/4	2,567.05	3/4	2,207.86	3/4	1,848.68	3/4	1,489.49	3/4	1,130.31	3/4	771.13	3/4	411.94	3/4	53.68	3/4		3/4	
2	2,559.56	2	2,200.37	2	1,841.19	2	1,482.01	2	1,122.82	2	763.64	2	404.45	2	47.12	2		2	
1/4	2,552.08	1/4	2,192.89	1/4	1,833.71	1/4	1,474.52	1/4	1,115.34	1/4	756.16	1/4	396.97	1/4	40.57	1/4		1/4	
1/2	2,544.60	1/2	2,185.41	1/2	1,826.23	1/2	1,467.04	1/2	1,107.86	1/2	748.68	1/2	389.49	1/2	34.01	1/2		1/2	
3/4	2,537.11	3/4	2,177.93	3/4	1,818.75	3/4	1,459.56	3/4	1,100.38	3/4	741.19	3/4	382.01	3/4	29.32	3/4		3/4	
3	2,529.63	3	2,170.44	3	1,811.26	3	1,452.07	3	1,092.89	3	733.71	3	374.52	3	24.64	3		3	
1/4	2,522.14	1/4	2,162.96	1/4	1,803.78	1/4	1,444.59	1/4	1,085.41	1/4	726.22	1/4	367.04	1/4	19.95	1/4		1/4	
1/2	2,514.66	1/2	2,155.48	1/2	1,796.30	1/2	1,437.11	1/2	1,077.93	1/2	718.74	1/2	359.56	1/2	15.27	1/2		1/2	
3/4	2,507.18	3/4	2,148.00	3/4	1,788.81	3/4	1,429.63	3/4	1,070.45	3/4	711.26	3/4	352.08	3/4		3/4		3/4	
4	2,499.69	4	2,140.51	4	1,781.33	4	1,422.14	4	1,062.96	4	703.77	4	344.59	4		4		4	
1/4	2,492.21	1/4	2,133.03	1/4	1,773.84	1/4	1,414.66	1/4	1,055.48	1/4	696.29	1/4	337.11	1/4		1/4		1/4	
1/2	2,484.73	1/2	2,125.55	1/2	1,766.36	1/2	1,407.18	1/2	1,048.00	1/2	688.81	1/2	329.63	1/2		1/2		1/2	
3/4	2,477.25	3/4	2,118.07	3/4	1,758.88	3/4	1,399.70	3/4	1,040.51	3/4	681.33	3/4	322.15	3/4		3/4		3/4	
5	2,469.76	5	2,110.58	5	1,751.39	5	1,392.21	5	1,033.03	5	673.84	5	314.66	5		5		5	
1/4	2,462.28	1/4	2,103.10	1/4	1,743.91	1/4	1,384.73	1/4	1,025.54	1/4	666.36	1/4	307.18	1/4		1/4		1/4	
1/2	2,454.80	1/2	2,095.62	1/2	1,736.43	1/2	1,377.25	1/2	1,018.06	1/2	658.88	1/2	299.70	1/2		1/2		1/2	
3/4	2,447.32	3/4	2,088.13	3/4	1,728.95	3/4	1,369.77	3/4	1,010.58	3/4	651.40	3/4	292.21	3/4		3/4		3/4	
6	2,439.83	6	2,080.65	6	1,721.46	6	1,362.28	6	1,003.09	6	643.91	6	284.73	6		6		6	
1/4	2,432.35	1/4	2,073.16	1/4	1,713.98	1/4	1,354.80	1/4	995.61	1/4	636.43	1/4	277.24	1/4		1/4		1/4	
1/2	2,424.87	1/2	2,065.68	1/2	1,706.50	1/2	1,347.32	1/2	988.13	1/2	628.95	1/2	269.76	1/2		1/2		1/2	
3/4	2,417.39	3/4	2,058.20	3/4	1,699.02	3/4	1,339.83	3/4	980.65	3/4	621.47	3/4	262.28	3/4		3/4		3/4	
7	2,409.90	7	2,050.71	7	1,691.53	7	1,332.35	7	973.16	7	613.98	7	254.79	7		7		7	
1/4	2,402.42	1/4	2,043.23	1/4	1,684.05	1/4	1,324.86	1/4	965.68	1/4	606.50	1/4	247.31	1/4		1/4		1/4	
1/2	2,394.94	1/2	2,035.75	1/2	1,676.57	1/2	1,317.38	1/2	958.20	1/2	599.02	1/2	239.83	1/2		1/2		1/2	
3/4	2,387.45	3/4	2,028.27	3/4	1,669.09	3/4	1,309.90	3/4	950.72	3/4	591.53	3/4	232.35	3/4		3/4		3/4	
8	2,379.97	8	2,020.78	8	1,661.60	8	1,302.41	8	943.23	8	584.05	8	224.86	8		8		8	
1/4	2,372.48	1/4	2,013.30	1/4	1,654.12	1/4	1,294.93	1/4	935.75	1/4	576.56	1/4	217.38	1/4		1/4		1/4	
1/2	2,365.00	1/2	2,005.82	1/2	1,646.64	1/2	1,287.45	1/2	928.27	1/2	569.08	1/2	209.90	1/2		1/2		1/2	
3/4	2,357.52	3/4	1,998.34	3/4	1,639.15	3/4	1,279.97	3/4	920.79	3/4	561.60	3/4	202.42	3/4		3/4		3/4	
9	2,350.03	9	1,990.85	9	1,631.67	9	1,272.48	9	913.30	9	554.11	9	194.93	9		9		9	
1/4	2,342.55	1/4	1,983.37	1/4	1,624.18	1/4	1,265.00	1/4	905.82	1/4	546.63	1/4	187.45	1/4		1/4		1/4	
1/2	2,335.07	1/2	1,975.89	1/2	1,616.70	1/2	1,257.52	1/2	898.34	1/2	539.15	1/2	179.97	1/2		1/2		1/2	
3/4	2,327.59	3/4	1,968.41	3/4	1,609.22	3/4	1,250.04	3/4	890.85	3/4	531.67	3/4	172.49	3/4		3/4		3/4	
10	2,320.10	10	1,960.92	10	1,601.73	10	1,242.55	10	883.37	10	524.18	10	165.00	10		10		10	
1/4	2,312.62	1/4	1,953.44	1/4	1,594.25	1/4	1,235.07	1/4	875.88	1/4	516.70	1/4	157.52	1/4		1/4		1/4	
1/2	2,305.14	1/2	1,945.96	1/2	1,586.77	1/2	1,227.59	1/2	868.40	1/2	509.22	1/2	150.04	1/2		1/2		1/2	
3/4	2,297.66	3/4	1,938.47	3/4	1,579.29	3/4	1,220.11	3/4	860.92	3/4	501.74	3/4	142.55	3/4		3/4		3/4	
11	2,290.17	11	1,930.99	11	1,571.80	11	1,212.62	11	853.43	11	494.25	11	135.07	11		11		11	
1/4	2,282.69	1/4	1,923.50	1/4	1,564.32	1/4	1,205.14	1/4	845.95	1/4	486.77	1/4	127.58	1/4		1/4		1/4	
1/2	2,275.21	1/2	1,916.02	1/2	1,556.84	1/2	1,197.66	1/2	838.47	1/2	479.29	1/2	120.10	1/2		1/2		1/2	
3/4	2,267.73	3/4	1,908.54	3/4	1,549.36	3/4	1,190.17	3/4	830.99	3/4	471.81	3/4	112.62	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

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



BARGE "KIRBY 29163"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,480.35	0	4,268.07	0	4,047.75	0	3,827.43	0	3,607.11	0	3,317.93	0	2,960.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,477.67	1/4	4,263.48	1/4	4,043.16	1/4	3,822.84	1/4	3,602.52	1/4	3,310.48	1/4	2,952.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,474.23	1/2	4,258.89	1/2	4,038.57	1/2	3,818.25	1/2	3,597.93	1/2	3,303.02	1/2	2,945.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,470.79	3/4	4,254.30	3/4	4,033.98	3/4	3,813.66	3/4	3,593.34	3/4	3,295.57	3/4	2,937.82		
1		1		1		1	4,467.34	1	4,249.71	1	4,029.39	1	3,809.07	1	3,588.75	1	3,288.11	1	2,930.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,463.90	1/4	4,245.12	1/4	4,024.80	1/4	3,804.48	1/4	3,584.16	1/4	3,280.66	1/4	2,922.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,459.70	1/2	4,240.53	1/2	4,020.21	1/2	3,799.89	1/2	3,579.57	1/2	3,273.21	1/2	2,915.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,455.49	3/4	4,235.94	3/4	4,015.62	3/4	3,795.30	3/4	3,574.98	3/4	3,265.75	3/4	2,908.01		
2		2		2		2	4,451.29	2	4,231.35	2	4,011.03	2	3,790.71	2	3,570.39	2	3,258.30	2	2,900.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,447.08	1/4	4,226.76	1/4	4,006.44	1/4	3,786.12	1/4	3,565.80	1/4	3,250.85	1/4	2,893.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,442.49	1/2	4,222.17	1/2	4,001.85	1/2	3,781.53	1/2	3,561.15	1/2	3,243.40	1/2	2,885.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,437.90	3/4	4,217.58	3/4	3,997.26	3/4	3,776.94	3/4	3,556.51	3/4	3,235.94	3/4	2,878.20		
3		3		3		3	4,433.31	3	4,212.99	3	3,992.67	3	3,772.35	3	3,551.86	3	3,228.49	3	2,870.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,428.72	1/4	4,208.40	1/4	3,988.08	1/4	3,767.76	1/4	3,547.22	1/4	3,221.04	1/4	2,863.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,424.13	1/2	4,203.81	1/2	3,983.49	1/2	3,763.17	1/2	3,542.19	1/2	3,213.59	1/2	2,855.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,419.54	3/4	4,199.22	3/4	3,978.90	3/4	3,758.58	3/4	3,537.15	3/4	3,206.13	3/4	2,848.39		
4		4		4		4	4,414.95	4	4,194.63	4	3,974.31	4	3,753.99	4	3,532.12	4	3,198.68	4	2,840.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.36	1/4	4,190.04	1/4	3,969.72	1/4	3,749.40	1/4	3,527.09	1/4	3,191.23	1/4	2,833.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.77	1/2	4,185.45	1/2	3,965.13	1/2	3,744.81	1/2	3,521.61	1/2	3,183.78	1/2	2,826.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,401.18	3/4	4,180.86	3/4	3,960.54	3/4	3,740.22	3/4	3,516.14	3/4	3,176.32	3/4	2,818.57		
5		5		5		5	4,396.59	5	4,176.27	5	3,955.95	5	3,735.63	5	3,510.66	5	3,168.87	5	2,811.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,392.00	1/4	4,171.68	1/4	3,951.36	1/4	3,731.04	1/4	3,505.19	1/4	3,161.42	1/4	2,803.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,387.41	1/2	4,167.09	1/2	3,946.77	1/2	3,726.45	1/2	3,499.27	1/2	3,153.96	1/2	2,796.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,382.82	3/4	4,162.50	3/4	3,942.18	3/4	3,721.86	3/4	3,493.36	3/4	3,146.51	3/4	2,788.76		
6		6		6		6	4,378.23	6	4,157.91	6	3,937.59	6	3,717.27	6	3,487.44	6	3,139.05	6	2,781.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.64	1/4	4,153.32	1/4	3,933.00	1/4	3,712.68	1/4	3,481.53	1/4	3,131.60	1/4	2,773.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,369.05	1/2	4,148.73	1/2	3,928.41	1/2	3,708.09	1/2	3,475.17	1/2	3,124.15	1/2	2,766.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.46	3/4	4,144.14	3/4	3,923.82	3/4	3,703.50	3/4	3,468.81	3/4	3,116.69	3/4	2,758.95		
7		7		7		7	4,359.87	7	4,139.55	7	3,919.23	7	3,698.91	7	3,462.45	7	3,109.24	7	2,751.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,355.28	1/4	4,134.96	1/4	3,914.64	1/4	3,694.32	1/4	3,456.09	1/4	3,101.79	1/4	2,744.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,350.69	1/2	4,130.37	1/2	3,910.05	1/2	3,689.73	1/2	3,449.29	1/2	3,094.34	1/2	2,736.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,346.10	3/4	4,125.78	3/4	3,905.46	3/4	3,685.14	3/4	3,442.49	3/4	3,086.88	3/4	2,729.14		
8		8		8		8	4,341.51	8	4,121.19	8	3,900.87	8	3,680.55	8	3,435.69	8	3,079.43	8	2,721.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.15	1/4	4,336.92	1/4	4,116.60	1/4	3,896.28	1/4	3,675.96	1/4	3,428.89	1/4	3,071.98	1/4	2,714.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,501.77	1/2	4,332.33	1/2	4,112.01	1/2	3,891.69	1/2	3,671.37	1/2	3,421.64	1/2	3,064.53	1/2	2,706.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,501.39	3/4	4,327.74	3/4	4,107.42	3/4	3,887.10	3/4	3,666.78	3/4	3,414.40	3/4	3,057.07	3/4	2,699.33
9		9		9		9	4,501.00	9	4,323.15	9	4,102.83	9	3,882.51	9	3,662.19	9	3,407.15	9	3,049.62	9	2,691.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,500.62	1/4	4,318.56	1/4	4,098.24	1/4	3,877.92	1/4	3,657.60	1/4	3,399.91	1/4	3,042.17	1/4	2,684.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,499.47	1/2	4,313.97	1/2	4,093.65	1/2	3,873.33	1/2	3,653.01	1/2	3,392.46	1/2	3,034.72	1/2	2,676.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.33	3/4	4,309.38	3/4	4,089.06	3/4	3,868.74	3/4	3,648.42	3/4	3,385.00	3/4	3,027.26	3/4	2,669.51
10		10		10		10	4,497.18	10	4,304.79	10	4,084.47	10	3,864.15	10	3,643.83	10	3,377.55	10	3,019.81	10	2,662.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.03	1/4	4,300.20	1/4	4,079.88	1/4	3,859.56	1/4	3,639.24	1/4	3,370.10	1/4	3,012.36	1/4	2,654.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,494.12	1/2	4,295.61	1/2	4,075.29	1/2	3,854.97	1/2	3,634.65	1/2	3,362.65	1/2	3,004.90	1/2	2,647.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,492.21	3/4	4,291.02	3/4	4,070.70	3/4	3,850.38	3/4	3,630.06	3/4	3,355.19	3/4	2,997.45	3/4	2,639.70
11		11		11		11	4,490.29	11	4,286.43	11	4,066.11	11	3,845.79	11	3,625.47	11	3,347.74	11	2,989.99	11	2,632.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,488.38	1/4	4,281.84	1/4	4,061.52	1/4	3,841.20	1/4	3,620.88	1/4	3,340.29	1/4	2,982.54	1/4	2,624.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,485.70	1/2	4,277.25	1/2	4,056.93	1/2	3,836.61	1/2	3,616.29	1/2	3,332.84	1/2	2,975.09	1/2	2,617.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,483.03	3/4	4,272.66	3/4	4,052.34	3/4	3,832.02	3/4	3,611.70	3/4	3,325.38	3/4	2,967.63	3/4	2,609.89

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29163"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	2,602.44	0	2,244.69	0	1,886.95	0	1,529.21	0	1,171.70	0	813.85	0	455.58	0	97.31	0		0	
1/4	2,594.99	1/4	2,237.24	1/4	1,879.50	1/4	1,521.76	1/4	1,164.26	1/4	806.39	1/4	448.12	1/4	89.85	1/4		1/4	
1/2	2,587.54	1/2	2,229.79	1/2	1,872.05	1/2	1,514.30	1/2	1,156.82	1/2	798.93	1/2	440.65	1/2	82.38	1/2		1/2	
3/4	2,580.08	3/4	2,222.33	3/4	1,864.59	3/4	1,506.85	3/4	1,149.37	3/4	791.46	3/4	433.19	3/4	74.92	3/4		3/4	
1	2,572.63	1	2,214.88	1	1,857.14	1	1,499.39	1	1,141.93	1	784.00	1	425.72	1	67.45	1		1	
1/4	2,565.18	1/4	2,207.43	1/4	1,849.69	1/4	1,491.94	1/4	1,134.49	1/4	776.54	1/4	418.26	1/4	59.99	1/4		1/4	
1/2	2,557.72	1/2	2,199.98	1/2	1,842.24	1/2	1,484.49	1/2	1,127.04	1/2	769.07	1/2	410.80	1/2	53.46	1/2		1/2	
3/4	2,550.27	3/4	2,192.52	3/4	1,834.78	3/4	1,477.03	3/4	1,119.60	3/4	761.61	3/4	403.33	3/4	46.93	3/4		3/4	
2	2,542.81	2	2,185.07	2	1,827.33	2	1,469.58	2	1,112.15	2	754.14	2	395.87	2	40.40	2		2	
1/4	2,535.36	1/4	2,177.62	1/4	1,819.88	1/4	1,462.13	1/4	1,104.71	1/4	746.68	1/4	388.41	1/4	33.87	1/4		1/4	
1/2	2,527.91	1/2	2,170.17	1/2	1,812.42	1/2	1,454.68	1/2	1,097.27	1/2	739.21	1/2	380.94	1/2	29.20	1/2		1/2	
3/4	2,520.45	3/4	2,162.71	3/4	1,804.97	3/4	1,447.22	3/4	1,089.82	3/4	731.75	3/4	373.48	3/4	24.54	3/4		3/4	
3	2,513.00	3	2,155.26	3	1,797.51	3	1,439.77	3	1,082.38	3	724.28	3	366.01	3	19.87	3		3	
1/4	2,505.55	1/4	2,147.81	1/4	1,790.06	1/4	1,432.32	1/4	1,074.94	1/4	716.82	1/4	358.55	1/4	15.21	1/4		1/4	
1/2	2,498.10	1/2	2,140.36	1/2	1,782.61	1/2	1,424.87	1/2	1,067.49	1/2	709.36	1/2	351.09	1/2		1/2		1/2	
3/4	2,490.64	3/4	2,132.90	3/4	1,775.15	3/4	1,417.41	3/4	1,060.05	3/4	701.89	3/4	343.62	3/4		3/4		3/4	
4	2,483.19	4	2,125.45	4	1,767.70	4	1,409.96	4	1,052.60	4	694.43	4	336.16	4	4	4		4	
1/4	2,475.74	1/4	2,118.00	1/4	1,760.25	1/4	1,402.51	1/4	1,045.16	1/4	686.97	1/4	328.70	1/4		1/4		1/4	
1/2	2,468.29	1/2	2,110.54	1/2	1,752.80	1/2	1,395.06	1/2	1,037.71	1/2	679.50	1/2	321.23	1/2		1/2		1/2	
3/4	2,460.83	3/4	2,103.09	3/4	1,745.34	3/4	1,387.60	3/4	1,030.27	3/4	672.04	3/4	313.77	3/4		3/4		3/4	
5	2,453.38	5	2,095.63	5	1,737.89	5	1,380.15	5	1,022.82	5	664.57	5	306.30	5	5	5		5	
1/4	2,445.93	1/4	2,088.18	1/4	1,730.44	1/4	1,372.70	1/4	1,015.38	1/4	657.11	1/4	298.84	1/4		1/4		1/4	
1/2	2,438.48	1/2	2,080.73	1/2	1,722.99	1/2	1,365.25	1/2	1,007.92	1/2	649.65	1/2	291.37	1/2		1/2		1/2	
3/4	2,431.02	3/4	2,073.27	3/4	1,715.53	3/4	1,357.81	3/4	1,000.45	3/4	642.18	3/4	283.91	3/4		3/4		3/4	
6	2,423.57	6	2,065.82	6	1,708.08	6	1,350.36	6	992.99	6	634.72	6	276.44	6	6	6		6	
1/4	2,416.12	1/4	2,058.37	1/4	1,700.63	1/4	1,342.92	1/4	985.53	1/4	627.26	1/4	268.98	1/4		1/4		1/4	
1/2	2,408.66	1/2	2,050.92	1/2	1,693.18	1/2	1,335.47	1/2	978.06	1/2	619.79	1/2	261.52	1/2		1/2		1/2	
3/4	2,401.21	3/4	2,043.46	3/4	1,685.72	3/4	1,328.03	3/4	970.60	3/4	612.33	3/4	254.05	3/4		3/4		3/4	
7	2,393.75	7	2,036.01	7	1,678.27	7	1,320.58	7	963.13	7	604.86	7	246.59	7	7	7		7	
1/4	2,386.30	1/4	2,028.56	1/4	1,670.82	1/4	1,313.14	1/4	955.67	1/4	597.40	1/4	239.13	1/4		1/4		1/4	
1/2	2,378.85	1/2	2,021.11	1/2	1,663.36	1/2	1,305.70	1/2	948.21	1/2	589.93	1/2	231.66	1/2		1/2		1/2	
3/4	2,371.39	3/4	2,013.65	3/4	1,655.91	3/4	1,298.25	3/4	940.74	3/4	582.47	3/4	224.20	3/4		3/4		3/4	
8	2,363.94	8	2,006.20	8	1,648.45	8	1,290.81	8	933.28	8	575.00	8	216.73	8	8	8		8	
1/4	2,356.49	1/4	1,998.75	1/4	1,641.00	1/4	1,283.37	1/4	925.82	1/4	567.54	1/4	209.27	1/4		1/4		1/4	
1/2	2,349.04	1/2	1,991.30	1/2	1,633.55	1/2	1,275.92	1/2	918.35	1/2	560.08	1/2	201.81	1/2		1/2		1/2	
3/4	2,341.58	3/4	1,983.84	3/4	1,626.09	3/4	1,268.48	3/4	910.89	3/4	552.61	3/4	194.34	3/4		3/4		3/4	
9	2,334.13	9	1,976.39	9	1,618.64	9	1,261.03	9	903.42	9	545.15	9	186.88	9	9	9		9	
1/4	2,326.68	1/4	1,968.94	1/4	1,611.19	1/4	1,253.59	1/4	895.96	1/4	537.69	1/4	179.42	1/4		1/4		1/4	
1/2	2,319.23	1/2	1,961.48	1/2	1,603.74	1/2	1,246.15	1/2	888.49	1/2	530.22	1/2	171.95	1/2		1/2		1/2	
3/4	2,311.77	3/4	1,954.03	3/4	1,596.28	3/4	1,238.70	3/4	881.03	3/4	522.76	3/4	164.49	3/4		3/4		3/4	
10	2,304.32	10	1,946.57	10	1,588.83	10	1,231.26	10	873.56	10	515.29	10	157.02	10	10	10		10	
1/4	2,296.87	1/4	1,939.12	1/4	1,581.38	1/4	1,223.82	1/4	866.10	1/4	507.83	1/4	149.56	1/4		1/4		1/4	
1/2	2,289.42	1/2	1,931.67	1/2	1,573.93	1/2	1,216.37	1/2	858.64	1/2	500.37	1/2	142.09	1/2		1/2		1/2	
3/4	2,281.96	3/4	1,924.21	3/4	1,566.47	3/4	1,208.93	3/4	851.17	3/4	492.90	3/4	134.63	3/4		3/4		3/4	
11	2,274.51	11	1,916.76	11	1,559.02	11	1,201.48	11	843.71	11	485.44	11	127.16	11	11	11		11	
1/4	2,267.06	1/4	1,909.31	1/4	1,551.57	1/4	1,194.04	1/4	836.25	1/4	477.98	1/4	119.70	1/4		1/4		1/4	
1/2	2,259.60	1/2	1,901.86	1/2	1,544.12	1/2	1,186.59	1/2	828.78	1/2	470.51	1/2	112.24	1/2		1/2		1/2	
3/4	2,252.15	3/4	1,894.40	3/4	1,536.66	3/4	1,179.15	3/4	821.32	3/4	463.05	3/4	104.77	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "KIRBY 29163"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,480.35	0	4,268.07	0	4,047.75	0	3,827.43	0	3,607.11	0	3,317.93	0	2,960.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,477.67	1/4	4,263.48	1/4	4,043.16	1/4	3,822.84	1/4	3,602.52	1/4	3,310.48	1/4	2,952.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,474.23	1/2	4,258.89	1/2	4,038.57	1/2	3,818.25	1/2	3,597.93	1/2	3,303.02	1/2	2,945.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,470.79	3/4	4,254.30	3/4	4,033.98	3/4	3,813.66	3/4	3,593.34	3/4	3,295.57	3/4	2,937.82		
1		1		1		1	4,467.34	1	4,249.71	1	4,029.39	1	3,809.07	1	3,588.75	1	3,288.11	1	2,930.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,463.90	1/4	4,245.12	1/4	4,024.80	1/4	3,804.48	1/4	3,584.16	1/4	3,280.66	1/4	2,922.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,459.70	1/2	4,240.53	1/2	4,020.21	1/2	3,799.89	1/2	3,579.57	1/2	3,273.21	1/2	2,915.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,455.49	3/4	4,235.94	3/4	4,015.62	3/4	3,795.30	3/4	3,574.98	3/4	3,265.75	3/4	2,908.01		
2		2		2		2	4,451.29	2	4,231.35	2	4,011.03	2	3,790.71	2	3,570.39	2	3,258.30	2	2,900.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,447.08	1/4	4,226.76	1/4	4,006.44	1/4	3,786.12	1/4	3,565.80	1/4	3,250.85	1/4	2,893.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,442.49	1/2	4,222.17	1/2	4,001.85	1/2	3,781.53	1/2	3,561.15	1/2	3,243.40	1/2	2,885.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,437.90	3/4	4,217.58	3/4	3,997.26	3/4	3,776.94	3/4	3,556.51	3/4	3,235.94	3/4	2,878.20		
3		3		3		3	4,433.31	3	4,212.99	3	3,992.67	3	3,772.35	3	3,551.86	3	3,228.49	3	2,870.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,428.72	1/4	4,208.40	1/4	3,988.08	1/4	3,767.76	1/4	3,547.22	1/4	3,221.04	1/4	2,863.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,424.13	1/2	4,203.81	1/2	3,983.49	1/2	3,763.17	1/2	3,542.19	1/2	3,213.59	1/2	2,855.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,419.54	3/4	4,199.22	3/4	3,978.90	3/4	3,758.58	3/4	3,537.15	3/4	3,206.13	3/4	2,848.39		
4		4		4		4	4,414.95	4	4,194.63	4	3,974.31	4	3,753.99	4	3,532.12	4	3,198.68	4	2,840.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.36	1/4	4,190.04	1/4	3,969.72	1/4	3,749.40	1/4	3,527.09	1/4	3,191.23	1/4	2,833.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.77	1/2	4,185.45	1/2	3,965.13	1/2	3,744.81	1/2	3,521.61	1/2	3,183.78	1/2	2,826.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,401.18	3/4	4,180.86	3/4	3,960.54	3/4	3,740.22	3/4	3,516.14	3/4	3,176.32	3/4	2,818.57		
5		5		5		5	4,396.59	5	4,176.27	5	3,955.95	5	3,735.63	5	3,510.66	5	3,168.87	5	2,811.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,392.00	1/4	4,171.68	1/4	3,951.36	1/4	3,731.04	1/4	3,505.19	1/4	3,161.42	1/4	2,803.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,387.41	1/2	4,167.09	1/2	3,946.77	1/2	3,726.45	1/2	3,499.27	1/2	3,153.96	1/2	2,796.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,382.82	3/4	4,162.50	3/4	3,942.18	3/4	3,721.86	3/4	3,493.36	3/4	3,146.51	3/4	2,788.76		
6		6		6		6	4,378.23	6	4,157.91	6	3,937.59	6	3,717.27	6	3,487.44	6	3,139.05	6	2,781.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,373.64	1/4	4,153.32	1/4	3,933.00	1/4	3,712.68	1/4	3,481.53	1/4	3,131.60	1/4	2,773.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,369.05	1/2	4,148.73	1/2	3,928.41	1/2	3,708.09	1/2	3,475.17	1/2	3,124.15	1/2	2,766.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.46	3/4	4,144.14	3/4	3,923.82	3/4	3,703.50	3/4	3,468.81	3/4	3,116.69	3/4	2,758.95		
7		7		7		7	4,359.87	7	4,139.55	7	3,919.23	7	3,698.91	7	3,462.45	7	3,109.24	7	2,751.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,355.28	1/4	4,134.96	1/4	3,914.64	1/4	3,694.32	1/4	3,456.09	1/4	3,101.79	1/4	2,744.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,350.69	1/2	4,130.37	1/2	3,910.05	1/2	3,689.73	1/2	3,449.29	1/2	3,094.34	1/2	2,736.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,346.10	3/4	4,125.78	3/4	3,905.46	3/4	3,685.14	3/4	3,442.49	3/4	3,086.88	3/4	2,729.14		
8		8		8		8	4,341.51	8	4,121.19	8	3,900.87	8	3,680.55	8	3,435.69	8	3,079.43	8	2,721.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.15	1/4	4,336.92	1/4	4,116.60	1/4	3,896.28	1/4	3,675.96	1/4	3,428.89	1/4	3,071.98	1/4	2,714.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,501.77	1/2	4,332.33	1/2	4,112.01	1/2	3,891.69	1/2	3,671.37	1/2	3,421.64	1/2	3,064.53	1/2	2,706.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,501.39	3/4	4,327.74	3/4	4,107.42	3/4	3,887.10	3/4	3,666.78	3/4	3,414.40	3/4	3,057.07	3/4	2,699.33
9		9		9		9	4,501.00	9	4,323.15	9	4,102.83	9	3,882.51	9	3,662.19	9	3,407.15	9	3,049.62	9	2,691.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,500.62	1/4	4,318.56	1/4	4,098.24	1/4	3,877.92	1/4	3,657.60	1/4	3,399.91	1/4	3,042.17	1/4	2,684.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,499.47	1/2	4,313.97	1/2	4,093.65	1/2	3,873.33	1/2	3,653.01	1/2	3,392.46	1/2	3,034.72	1/2	2,676.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.33	3/4	4,309.38	3/4	4,089.06	3/4	3,868.74	3/4	3,648.42	3/4	3,385.00	3/4	3,027.26	3/4	2,669.51
10		10		10		10	4,497.18	10	4,304.79	10	4,084.47	10	3,864.15	10	3,643.83	10	3,377.55	10	3,019.81	10	2,662.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.03	1/4	4,300.20	1/4	4,079.88	1/4	3,859.56	1/4	3,639.24	1/4	3,370.10	1/4	3,012.36	1/4	2,654.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,494.12	1/2	4,295.61	1/2	4,075.29	1/2	3,854.97	1/2	3,634.65	1/2	3,362.65	1/2	3,004.90	1/2	2,647.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,492.21	3/4	4,291.02	3/4	4,070.70	3/4	3,850.38	3/4	3,630.06	3/4	3,355.19	3/4	2,997.45	3/4	2,639.70
11		11		11		11	4,490.29	11	4,286.43	11	4,066.11	11	3,845.79	11	3,625.47	11	3,347.74	11	2,989.99	11	2,632.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,488.38	1/4	4,281.84	1/4	4,061.52	1/4	3,841.20	1/4	3,620.88	1/4	3,340.29	1/4	2,982.54	1/4	2,624.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,485.70	1/2	4,277.25	1/2	4,056.93	1/2	3,836.61	1/2	3,616.29	1/2	3,332.84	1/2	2,975.09	1/2	2,617.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,483.03	3/4	4,272.66	3/4	4,052.34	3/4	3,832.02	3/4	3,611.70	3/4	3,325.38	3/4	2,967.63	3/4	2,609.89

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 DEVICE".
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 29163"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	2,602.44	0	2,244.69	0	1,886.95	0	1,529.21	0	1,171.70	0	813.85	0	455.58	0	97.31	0		0	
1/4	2,594.99	1/4	2,237.24	1/4	1,879.50	1/4	1,521.76	1/4	1,164.26	1/4	806.39	1/4	448.12	1/4	89.85	1/4		1/4	
1/2	2,587.54	1/2	2,229.79	1/2	1,872.05	1/2	1,514.30	1/2	1,156.82	1/2	798.93	1/2	440.65	1/2	82.38	1/2		1/2	
3/4	2,580.08	3/4	2,222.33	3/4	1,864.59	3/4	1,506.85	3/4	1,149.37	3/4	791.46	3/4	433.19	3/4	74.92	3/4		3/4	
1	2,572.63	1	2,214.88	1	1,857.14	1	1,499.39	1	1,141.93	1	784.00	1	425.72	1	67.45	1		1	
1/4	2,565.18	1/4	2,207.43	1/4	1,849.69	1/4	1,491.94	1/4	1,134.49	1/4	776.54	1/4	418.26	1/4	59.99	1/4		1/4	
1/2	2,557.72	1/2	2,199.98	1/2	1,842.24	1/2	1,484.49	1/2	1,127.04	1/2	769.07	1/2	410.80	1/2	53.46	1/2		1/2	
3/4	2,550.27	3/4	2,192.52	3/4	1,834.78	3/4	1,477.03	3/4	1,119.60	3/4	761.61	3/4	403.33	3/4	46.93	3/4		3/4	
2	2,542.81	2	2,185.07	2	1,827.33	2	1,469.58	2	1,112.15	2	754.14	2	395.87	2	40.40	2		2	
1/4	2,535.36	1/4	2,177.62	1/4	1,819.88	1/4	1,462.13	1/4	1,104.71	1/4	746.68	1/4	388.41	1/4	33.87	1/4		1/4	
1/2	2,527.91	1/2	2,170.17	1/2	1,812.42	1/2	1,454.68	1/2	1,097.27	1/2	739.21	1/2	380.94	1/2	29.20	1/2		1/2	
3/4	2,520.45	3/4	2,162.71	3/4	1,804.97	3/4	1,447.22	3/4	1,089.82	3/4	731.75	3/4	373.48	3/4	24.54	3/4		3/4	
3	2,513.00	3	2,155.26	3	1,797.51	3	1,439.77	3	1,082.38	3	724.28	3	366.01	3	19.87	3		3	
1/4	2,505.55	1/4	2,147.81	1/4	1,790.06	1/4	1,432.32	1/4	1,074.94	1/4	716.82	1/4	358.55	1/4	15.21	1/4		1/4	
1/2	2,498.10	1/2	2,140.36	1/2	1,782.61	1/2	1,424.87	1/2	1,067.49	1/2	709.36	1/2	351.09	1/2		1/2		1/2	
3/4	2,490.64	3/4	2,132.90	3/4	1,775.15	3/4	1,417.41	3/4	1,060.05	3/4	701.89	3/4	343.62	3/4		3/4		3/4	
4	2,483.19	4	2,125.45	4	1,767.70	4	1,409.96	4	1,052.60	4	694.43	4	336.16	4	4	4		4	
1/4	2,475.74	1/4	2,118.00	1/4	1,760.25	1/4	1,402.51	1/4	1,045.16	1/4	686.97	1/4	328.70	1/4		1/4		1/4	
1/2	2,468.29	1/2	2,110.54	1/2	1,752.80	1/2	1,395.06	1/2	1,037.71	1/2	679.50	1/2	321.23	1/2		1/2		1/2	
3/4	2,460.83	3/4	2,103.09	3/4	1,745.34	3/4	1,387.60	3/4	1,030.27	3/4	672.04	3/4	313.77	3/4		3/4		3/4	
5	2,453.38	5	2,095.63	5	1,737.89	5	1,380.15	5	1,022.82	5	664.57	5	306.30	5	5	5		5	
1/4	2,445.93	1/4	2,088.18	1/4	1,730.44	1/4	1,372.70	1/4	1,015.38	1/4	657.11	1/4	298.84	1/4		1/4		1/4	
1/2	2,438.48	1/2	2,080.73	1/2	1,722.99	1/2	1,365.25	1/2	1,007.92	1/2	649.65	1/2	291.37	1/2		1/2		1/2	
3/4	2,431.02	3/4	2,073.27	3/4	1,715.53	3/4	1,357.81	3/4	1,000.45	3/4	642.18	3/4	283.91	3/4		3/4		3/4	
6	2,423.57	6	2,065.82	6	1,708.08	6	1,350.36	6	992.99	6	634.72	6	276.44	6	6	6		6	
1/4	2,416.12	1/4	2,058.37	1/4	1,700.63	1/4	1,342.92	1/4	985.53	1/4	627.26	1/4	268.98	1/4		1/4		1/4	
1/2	2,408.66	1/2	2,050.92	1/2	1,693.18	1/2	1,335.47	1/2	978.06	1/2	619.79	1/2	261.52	1/2		1/2		1/2	
3/4	2,401.21	3/4	2,043.46	3/4	1,685.72	3/4	1,328.03	3/4	970.60	3/4	612.33	3/4	254.05	3/4		3/4		3/4	
7	2,393.75	7	2,036.01	7	1,678.27	7	1,320.58	7	963.13	7	604.86	7	246.59	7	7	7		7	
1/4	2,386.30	1/4	2,028.56	1/4	1,670.82	1/4	1,313.14	1/4	955.67	1/4	597.40	1/4	239.13	1/4		1/4		1/4	
1/2	2,378.85	1/2	2,021.11	1/2	1,663.36	1/2	1,305.70	1/2	948.21	1/2	589.93	1/2	231.66	1/2		1/2		1/2	
3/4	2,371.39	3/4	2,013.65	3/4	1,655.91	3/4	1,298.25	3/4	940.74	3/4	582.47	3/4	224.20	3/4		3/4		3/4	
8	2,363.94	8	2,006.20	8	1,648.45	8	1,290.81	8	933.28	8	575.00	8	216.73	8	8	8		8	
1/4	2,356.49	1/4	1,998.75	1/4	1,641.00	1/4	1,283.37	1/4	925.82	1/4	567.54	1/4	209.27	1/4		1/4		1/4	
1/2	2,349.04	1/2	1,991.30	1/2	1,633.55	1/2	1,275.92	1/2	918.35	1/2	560.08	1/2	201.81	1/2		1/2		1/2	
3/4	2,341.58	3/4	1,983.84	3/4	1,626.09	3/4	1,268.48	3/4	910.89	3/4	552.61	3/4	194.34	3/4		3/4		3/4	
9	2,334.13	9	1,976.39	9	1,618.64	9	1,261.03	9	903.42	9	545.15	9	186.88	9	9	9		9	
1/4	2,326.68	1/4	1,968.94	1/4	1,611.19	1/4	1,253.59	1/4	895.96	1/4	537.69	1/4	179.42	1/4		1/4		1/4	
1/2	2,319.23	1/2	1,961.48	1/2	1,603.74	1/2	1,246.15	1/2	888.49	1/2	530.22	1/2	171.95	1/2		1/2		1/2	
3/4	2,311.77	3/4	1,954.03	3/4	1,596.28	3/4	1,238.70	3/4	881.03	3/4	522.76	3/4	164.49	3/4		3/4		3/4	
10	2,304.32	10	1,946.57	10	1,588.83	10	1,231.26	10	873.56	10	515.29	10	157.02	10	10	10		10	
1/4	2,296.87	1/4	1,939.12	1/4	1,581.38	1/4	1,223.82	1/4	866.10	1/4	507.83	1/4	149.56	1/4		1/4		1/4	
1/2	2,289.42	1/2	1,931.67	1/2	1,573.93	1/2	1,216.37	1/2	858.64	1/2	500.37	1/2	142.09	1/2		1/2		1/2	
3/4	2,281.96	3/4	1,924.21	3/4	1,566.47	3/4	1,208.93	3/4	851.17	3/4	492.90	3/4	134.63	3/4		3/4		3/4	
11	2,274.51	11	1,916.76	11	1,559.02	11	1,201.48	11	843.71	11	485.44	11	127.16	11	11	11		11	
1/4	2,267.06	1/4	1,909.31	1/4	1,551.57	1/4	1,194.04	1/4	836.25	1/4	477.98	1/4	119.70	1/4		1/4		1/4	
1/2	2,259.60	1/2	1,901.86	1/2	1,544.12	1/2	1,186.59	1/2	828.78	1/2	470.51	1/2	112.24	1/2		1/2		1/2	
3/4	2,252.15	3/4	1,894.40	3/4	1,536.66	3/4	1,179.15	3/4	821.32	3/4	463.05	3/4	104.77	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/22/2011 INSP
RECALCULATED: 12/03/2021 SW
REPRINTED: 12/03/2021 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2021

PRECISION MEASUREMENT
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BARGE "KIRBY 29163"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30031"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	5	1/4	442	1/4	1,027	1/4	1,642	1/4	2,202	1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	453	1/2	1,040	1/2	1,655	1/2	2,212	1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	464	3/4	1,053	3/4	1,667	3/4	2,222	3/4		3/4		3/4		3/4		3/4	
1	21	1	475	1	1,065	1	1,680	1	2,232	1		1		1		1		1	
1/4	28	1/4	487	1/4	1,078	1/4	1,692	1/4	2,242	1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	498	1/2	1,091	1/2	1,705	1/2	2,252	1/2		1/2		1/2		1/2		1/2	
3/4	41	3/4	510	3/4	1,104	3/4	1,717	3/4	2,262	3/4		3/4		3/4		3/4		3/4	
2	48	2	522	2	1,117	2	1,729	2	2,272	2		2		2		2		2	
1/4	55	1/4	533	1/4	1,130	1/4	1,742	1/4	2,282	1/4		1/4		1/4		1/4		1/4	
1/2	63	1/2	545	1/2	1,143	1/2	1,754	1/2	2,291	1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	557	3/4	1,156	3/4	1,766	3/4	2,301	3/4		3/4		3/4		3/4		3/4	
3	78	3	568	3	1,168	3	1,779	3	2,310	3		3		3		3		3	
1/4	86	1/4	580	1/4	1,181	1/4	1,791	1/4	2,319	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	592	1/2	1,194	1/2	1,803	1/2	2,328	1/2		1/2		1/2		1/2		1/2	
3/4	102	3/4	604	3/4	1,207	3/4	1,815	3/4	2,338	3/4		3/4		3/4		3/4		3/4	
4	110	4	616	4	1,220	4	1,827	4	2,347	4		4		4		4		4	
1/4	119	1/4	628	1/4	1,233	1/4	1,839	1/4	2,355	1/4		1/4		1/4		1/4		1/4	
1/2	128	1/2	640	1/2	1,246	1/2	1,852	1/2	2,364	1/2		1/2		1/2		1/2		1/2	
3/4	136	3/4	652	3/4	1,259	3/4	1,864	3/4	2,373	3/4		3/4		3/4		3/4		3/4	
5	145	5	664	5	1,272	5	1,876	5	2,381	5		5		5		5		5	
1/4	154	1/4	676	1/4	1,284	1/4	1,887	1/4	2,390	1/4		1/4		1/4		1/4		1/4	
1/2	163	1/2	689	1/2	1,297	1/2	1,899	1/2	2,398	1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	701	3/4	1,310	3/4	1,911	3/4	2,406	3/4		3/4		3/4		3/4		3/4	
6	181	6	713	6	1,323	6	1,923	6	2,414	6		6		6		6		6	
1/4	191	1/4	725	1/4	1,336	1/4	1,935	1/4	2,421	1/4		1/4		1/4		1/4		1/4	
1/2	200	1/2	738	1/2	1,349	1/2	1,947	1/2	2,429	1/2		1/2		1/2		1/2		1/2	
3/4	210	3/4	750	3/4	1,362	3/4	1,958	3/4	2,436	3/4		3/4		3/4		3/4		3/4	
7	220	7	762	7	1,375	7	1,970	7	2,444	7		7		7		7		7	
1/4	229	1/4	775	1/4	1,388	1/4	1,982	1/4	2,450	1/4		1/4		1/4		1/4		1/4	
1/2	239	1/2	787	1/2	1,400	1/2	1,993	1/2	2,457	1/2		1/2		1/2		1/2		1/2	
3/4	249	3/4	799	3/4	1,413	3/4	2,005	3/4	2,464	3/4		3/4		3/4		3/4		3/4	
8	259	8	812	8	1,426	8	2,016	8	2,470	8		8		8		8		8	
1/4	270	1/4	824	1/4	1,439	1/4	2,027	1/4	2,476	1/4		1/4		1/4		1/4		1/4	
1/2	280	1/2	837	1/2	1,452	1/2	2,039	1/2	2,481	1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	849	3/4	1,464	3/4	2,050	3/4	2,486	3/4		3/4		3/4		3/4		3/4	
9	300	9	862	9	1,477	9	2,061	9	2,492	9		9		9		9		9	
1/4	311	1/4	875	1/4	1,490	1/4	2,072	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	887	1/2	1,503	1/2	2,084	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	332	3/4	900	3/4	1,516	3/4	2,095	3/4		3/4		3/4		3/4		3/4		3/4	
10	343	10	912	10	1,528	10	2,106	10		10		10		10		10		10	
1/4	353	1/4	925	1/4	1,541	1/4	2,117	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	364	1/2	938	1/2	1,554	1/2	2,127	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375	3/4	951	3/4	1,566	3/4	2,138	3/4		3/4		3/4		3/4		3/4		3/4	
11	386	11	963	11	1,579	11	2,149	11		11		11		11		11		11	
1/4	397	1/4	976	1/4	1,592	1/4	2,160	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	408	1/2	989	1/2	1,604	1/2	2,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	419	3/4	1,002	3/4	1,617	3/4	2,181	3/4		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 AT GAUGE POINT.

STRAPPED: 11/24/2021 JS
CALCULATED: 11/24/2021 CL
PRINTED: 11/24/2021 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 29163"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "SMI 30031"

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	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1		1		1		1		1		1	
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2		2		2		2		2		2	
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3		3		3		3		3		3	
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4		4		4		4		4		4	
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5		5		5		5		5		5	
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6		6		6		6		6		6	
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7		7		7		7		7		7	
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8		8		8		8		8		8	
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9		9		9		9		9		9	
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10		10		10		10		10		10	
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11		11		11		11		11		11	
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		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 AT GAUGE POINT.

STRAPPED: 11/24/2021 JS
CALCULATED: 11/24/2021 CL
PRINTED: 11/24/2021 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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