



BARGE "MM 118"

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	- 00-0/8	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
1 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
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
4 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-7/8	- 02-7/8
4 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-3/8	- 01-3/8	01-7/8	- 01-7/8	02-3/8	- 02-3/8	02-7/8	- 02-7/8

(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 2 PORT IS - 00 1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

August 18, 2018

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 118"

ULLAGE TRIM TABLE 8" HATCH

	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	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
4 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-1/4	- 03-1/4
4 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-1/4	- 03-1/4

(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 2 PORT IS - 00 1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

August 18, 2018

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BARGE "MM 118"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,453.57	0	3,216.43	0	2,969.71	0	2,722.33	0	2,474.95	0	2,227.56	0	1,980.18	0	1,732.76	0	1,485.31	
1/4	1/4	3,450.02	1/4	3,211.29	1/4	2,964.56	1/4	2,717.18	1/4	2,469.79	1/4	2,222.41	1/4	1,975.03	1/4	1,727.60	1/4	1,480.15	
1/2	1/2	3,446.46	1/2	3,206.15	1/2	2,959.40	1/2	2,712.02	1/2	2,464.64	1/2	2,217.26	1/2	1,969.87	1/2	1,722.45	1/2	1,475.00	
3/4	3/4	3,442.90	3/4	3,201.01	3/4	2,954.25	3/4	2,706.87	3/4	2,459.49	3/4	2,212.10	3/4	1,964.72	3/4	1,717.29	3/4	1,469.84	
1	1	3,439.34	1	3,195.87	1	2,949.10	1	2,701.71	1	2,454.33	1	2,206.95	1	1,959.57	1	1,712.14	1	1,464.69	
1/4	1/4	3,434.87	1/4	3,190.73	1/4	2,943.94	1/4	2,696.56	1/4	2,449.18	1/4	2,201.80	1/4	1,954.41	1/4	1,706.98	1/4	1,459.53	
1/2	1/2	3,430.39	1/2	3,185.60	1/2	2,938.79	1/2	2,691.41	1/2	2,444.02	1/2	2,196.64	1/2	1,949.26	1/2	1,701.83	1/2	1,454.38	
3/4	3/4	3,425.92	3/4	3,180.46	3/4	2,933.64	3/4	2,686.25	3/4	2,438.87	3/4	2,191.49	3/4	1,944.11	3/4	1,696.67	3/4	1,449.22	
2	2	3,421.45	2	3,175.32	2	2,928.48	2	2,681.10	2	2,433.72	2	2,186.33	2	1,938.95	2	1,691.51	2	1,444.07	
1/4	1/4	3,416.43	1/4	3,170.18	1/4	2,923.33	1/4	2,675.95	1/4	2,428.56	1/4	2,181.18	1/4	1,933.80	1/4	1,686.36	1/4	1,438.91	
1/2	1/2	3,411.42	1/2	3,165.04	1/2	2,918.17	1/2	2,670.79	1/2	2,423.41	1/2	2,176.03	1/2	1,928.65	1/2	1,681.20	1/2	1,433.75	
3/4	3/4	3,406.41	3/4	3,159.90	3/4	2,913.02	3/4	2,665.64	3/4	2,418.26	3/4	2,170.87	3/4	1,923.50	3/4	1,676.05	3/4	1,428.60	
3	3	3,401.39	3	3,154.76	3	2,907.87	3	2,660.48	3	2,413.10	3	2,165.72	3	1,918.34	3	1,670.89	3	1,423.44	
1/4	1/4	3,396.26	1/4	3,149.62	1/4	2,902.71	1/4	2,655.33	1/4	2,407.95	1/4	2,160.57	1/4	1,913.19	1/4	1,665.74	1/4	1,418.29	
1/2	1/2	3,391.14	1/2	3,144.48	1/2	2,897.56	1/2	2,650.18	1/2	2,402.79	1/2	2,155.41	1/2	1,908.03	1/2	1,660.58	1/2	1,413.13	
3/4	3/4	3,386.01	3/4	3,139.34	3/4	2,892.40	3/4	2,645.02	3/4	2,397.64	3/4	2,150.26	3/4	1,902.88	3/4	1,655.43	3/4	1,407.98	
4	4	3,380.88	4	3,134.20	4	2,887.25	4	2,639.87	4	2,392.49	4	2,145.10	4	1,897.72	4	1,650.27	4	1,402.82	
1/4	1/4	3,375.74	1/4	3,129.06	1/4	2,882.10	1/4	2,634.71	1/4	2,387.33	1/4	2,139.95	1/4	1,892.57	1/4	1,645.12	1/4	1,397.67	
1/2	1/2	3,370.61	1/2	3,123.92	1/2	2,876.94	1/2	2,629.56	1/2	2,382.18	1/2	2,134.80	1/2	1,887.41	1/2	1,639.96	1/2	1,392.51	
3/4	3/4	3,365.47	3/4	3,118.78	3/4	2,871.79	3/4	2,624.41	3/4	2,377.02	3/4	2,129.64	3/4	1,882.26	3/4	1,634.81	3/4	1,387.36	
5	5	3,360.33	5	3,113.65	5	2,866.64	5	2,619.25	5	2,371.87	5	2,124.49	5	1,877.10	5	1,629.65	5	1,382.20	
1/4	1/4	3,355.19	1/4	3,108.51	1/4	2,861.48	1/4	2,614.10	1/4	2,366.72	1/4	2,119.33	1/4	1,871.95	1/4	1,624.50	1/4	1,377.05	
1/2	1/2	3,350.05	1/2	3,103.37	1/2	2,856.33	1/2	2,608.95	1/2	2,361.56	1/2	2,114.18	1/2	1,866.79	1/2	1,619.34	1/2	1,371.89	
3/4	3/4	3,344.91	3/4	3,098.23	3/4	2,851.17	3/4	2,603.79	3/4	2,356.41	3/4	2,109.03	3/4	1,861.64	3/4	1,614.19	3/4	1,366.74	
6	6	3,339.77	6	3,093.09	6	2,846.02	6	2,598.64	6	2,351.26	6	2,103.87	6	1,856.48	6	1,609.03	6	1,361.58	
1/4	1/4	3,334.64	1/4	3,087.95	1/4	2,840.87	1/4	2,593.48	1/4	2,346.10	1/4	2,098.72	1/4	1,851.33	1/4	1,603.88	1/4	1,356.43	
1/2	1/2	3,329.50	1/2	3,082.81	1/2	2,835.71	1/2	2,588.33	1/2	2,340.95	1/2	2,093.57	1/2	1,846.17	1/2	1,598.72	1/2	1,351.27	
3/4	3/4	3,324.36	3/4	3,077.67	3/4	2,830.56	3/4	2,583.18	3/4	2,335.79	3/4	2,088.41	3/4	1,841.02	3/4	1,593.57	3/4	1,346.12	
7	7	3,319.22	7	3,072.53	7	2,825.41	7	2,578.02	7	2,330.64	7	2,083.26	7	1,835.86	7	1,588.41	7	1,340.96	
1/4	1/4	3,314.08	1/4	3,067.39	1/4	2,820.25	1/4	2,572.87	1/4	2,325.49	1/4	2,078.10	1/4	1,830.71	1/4	1,583.26	1/4	1,335.81	
1/2	1/2	3,308.94	1/2	3,062.25	1/2	2,815.10	1/2	2,567.72	1/2	2,320.33	1/2	2,072.95	1/2	1,825.55	1/2	1,578.10	1/2	1,330.65	
3/4	3/4	3,303.80	3/4	3,057.11	3/4	2,809.94	3/4	2,562.56	3/4	2,315.18	3/4	2,067.80	3/4	1,820.39	3/4	1,572.95	3/4	1,325.50	
8	8	3,298.66	8	3,051.97	8	2,804.79	8	2,557.41	8	2,310.03	8	2,062.64	8	1,815.24	8	1,567.79	8	1,320.34	
1/4	1/4	3,293.52	1/4	3,046.83	1/4	2,799.64	1/4	2,552.25	1/4	2,304.87	1/4	2,057.49	1/4	1,810.08	1/4	1,562.63	1/4	1,315.19	
1/2	1/2	3,288.38	1/2	3,041.70	1/2	2,794.48	1/2	2,547.10	1/2	2,299.72	1/2	2,052.34	1/2	1,804.93	1/2	1,557.48	1/2	1,310.03	
3/4	3/4	3,283.24	3/4	3,036.56	3/4	2,789.33	3/4	2,541.95	3/4	2,294.56	3/4	2,047.18	3/4	1,799.77	3/4	1,552.32	3/4	1,304.87	
9	9	3,278.10	9	3,031.42	9	2,784.17	9	2,536.79	9	2,289.41	9	2,042.03	9	1,794.62	9	1,547.17	9	1,299.72	
1/4	1/4	3,272.96	1/4	3,026.28	1/4	2,779.02	1/4	2,531.64	1/4	2,284.26	1/4	2,036.87	1/4	1,789.46	1/4	1,542.01	1/4	1,294.56	
1/2	1/2	3,267.82	1/2	3,021.14	1/2	2,773.87	1/2	2,526.48	1/2	2,279.10	1/2	2,031.72	1/2	1,784.31	1/2	1,536.86	1/2	1,289.41	
3/4	3/4	3,262.68	3/4	3,016.00	3/4	2,768.71	3/4	2,521.33	3/4	2,273.95	3/4	2,026.57	3/4	1,779.15	3/4	1,531.70	3/4	1,284.25	
10	10	3,257.55	10	3,010.86	10	2,763.56	10	2,516.18	10	2,268.79	10	2,021.41	10	1,774.00	10	1,526.55	10	1,279.10	
1/4	1/4	3,252.41	1/4	3,005.72	1/4	2,758.41	1/4	2,511.02	1/4	2,263.64	1/4	2,016.26	1/4	1,768.84	1/4	1,521.39	1/4	1,273.94	
1/2	1/2	3,247.27	1/2	3,000.58	1/2	2,753.25	1/2	2,505.87	1/2	2,258.49	1/2	2,011.10	1/2	1,763.69	1/2	1,516.24	1/2	1,268.79	
3/4	3/4	3,242.13	3/4	2,995.44	3/4	2,748.10	3/4	2,500.72	3/4	2,253.33	3/4	2,005.95	3/4	1,758.53	3/4	1,511.08	3/4	1,263.63	
11	11	3,236.99	11	2,990.30	11	2,742.94	11	2,495.56	11	2,248.18	11	2,000.80	11	1,753.38	11	1,505.93	11	1,258.48	
1/4	1/4	3,231.85	1/4	2,985.15	1/4	2,737.79	1/4	2,490.41	1/4	2,243.03	1/4	1,995.64	1/4	1,748.22	1/4	1,500.77	1/4	1,253.32	
1/2	1/2	3,226.71	1/2	2,980.01	1/2	2,732.64	1/2	2,485.25	1/2	2,237.87	1/2	1,990.49	1/2	1,743.07	1/2	1,495.62	1/2	1,248.17	
3/4	3/4	3,221.57	3/4	2,974.86	3/4	2,727.48	3/4	2,480.10	3/4	2,232.72	3/4	1,985.34	3/4	1,737.91	3/4	1,490.46	3/4	1,243.01	

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 AT GAUGE POINT

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD

GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "MM 118"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,237.86	0	990.41	0	743.05	0	497.20	0	255.57	0	59.65	0		0		0		0	
1/4	1,232.70	1/4	985.25	1/4	737.93	1/4	492.05	1/4	250.96	1/4	56.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,227.55	1/2	980.10	1/2	732.81	1/2	486.89	1/2	246.35	1/2	52.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,222.39	3/4	974.94	3/4	727.68	3/4	481.74	3/4	241.74	3/4	49.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,217.24	1	969.79	1	722.56	1	476.58	1	237.13	1	45.48	1	1	1	1	1	1	1	1
1/4	1,212.08	1/4	964.63	1/4	717.44	1/4	471.43	1/4	232.62	1/4	41.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,206.93	1/2	959.48	1/2	712.32	1/2	466.28	1/2	228.11	1/2	36.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,201.77	3/4	954.32	3/4	707.20	3/4	461.12	3/4	223.60	3/4	32.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,196.62	2	949.17	2	702.08	2	455.97	2	219.09	2	28.43	2	2	2	2	2	2	2	2
1/4	1,191.46	1/4	944.01	1/4	696.96	1/4	450.81	1/4	214.66	1/4	24.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,186.31	1/2	938.86	1/2	691.84	1/2	445.66	1/2	210.24	1/2	21.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,181.15	3/4	933.70	3/4	686.73	3/4	440.50	3/4	205.82	3/4	17.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,175.99	3	928.55	3	681.61	3	435.35	3	201.40	3	14.26	3	3	3	3	3	3	3	3
1/4	1,170.84	1/4	923.39	1/4	676.49	1/4	430.19	1/4	197.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,165.68	1/2	918.23	1/2	671.37	1/2	425.04	1/2	192.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,160.53	3/4	913.08	3/4	666.25	3/4	419.88	3/4	188.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,155.37	4	907.92	4	661.14	4	414.73	4	184.02	4	4	4	4	4	4	4	4	4	4
1/4	1,150.22	1/4	902.77	1/4	656.02	1/4	409.57	1/4	179.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,145.06	1/2	897.61	1/2	650.90	1/2	404.42	1/2	175.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,139.91	3/4	892.46	3/4	645.78	3/4	399.26	3/4	171.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,134.75	5	887.30	5	640.66	5	394.11	5	166.98	5	5	5	5	5	5	5	5	5	5
1/4	1,129.60	1/4	882.15	1/4	635.55	1/4	388.95	1/4	162.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,124.44	1/2	876.99	1/2	630.43	1/2	383.80	1/2	158.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,119.29	3/4	871.84	3/4	625.31	3/4	378.64	3/4	154.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,114.13	6	866.68	6	620.19	6	373.49	6	150.29	6	6	6	6	6	6	6	6	6	6
1/4	1,108.98	1/4	861.53	1/4	615.07	1/4	368.36	1/4	146.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,103.82	1/2	856.37	1/2	609.96	1/2	363.24	1/2	142.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,098.67	3/4	851.22	3/4	604.84	3/4	358.12	3/4	138.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,093.51	7	846.06	7	599.72	7	353.00	7	133.95	7	7	7	7	7	7	7	7	7	7
1/4	1,088.36	1/4	840.91	1/4	594.60	1/4	347.95	1/4	130.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,083.20	1/2	835.75	1/2	589.48	1/2	342.91	1/2	126.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,078.05	3/4	830.60	3/4	584.37	3/4	337.86	3/4	122.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,072.89	8	825.44	8	579.25	8	332.81	8	118.76	8	8	8	8	8	8	8	8	8	8
1/4	1,067.74	1/4	820.29	1/4	574.13	1/4	327.86	1/4	115.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,062.58	1/2	815.13	1/2	569.01	1/2	322.90	1/2	111.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,057.43	3/4	809.98	3/4	563.89	3/4	317.94	3/4	107.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,052.27	9	804.82	9	558.78	9	312.98	9	104.20	9	9	9	9	9	9	9	9	9	9
1/4	1,047.11	1/4	799.67	1/4	553.65	1/4	308.11	1/4	100.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,041.96	1/2	794.51	1/2	548.53	1/2	303.24	1/2	96.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,036.80	3/4	789.35	3/4	543.41	3/4	298.37	3/4	92.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,031.65	10	784.20	10	538.29	10	293.50	10	89.17	10	10	10	10	10	10	10	10	10	10
1/4	1,026.49	1/4	779.04	1/4	533.16	1/4	288.71	1/4	85.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,021.34	1/2	773.89	1/2	528.04	1/2	283.93	1/2	81.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,016.18	3/4	768.73	3/4	522.92	3/4	279.14	3/4	77.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,011.03	11	763.58	11	517.79	11	274.36	11	74.22	11	11	11	11	11	11	11	11	11	11
1/4	1,005.87	1/4	758.45	1/4	512.65	1/4	269.66	1/4	70.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,000.72	1/2	753.32	1/2	507.50	1/2	264.97	1/2	66.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	995.56	3/4	748.18	3/4	502.35	3/4	260.27	3/4	63.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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



BARGE "MM 118"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,454.06	0	3,216.96	0	2,970.26	0	2,722.93	0	2,475.59	0	2,228.26	0	1,980.93	0	1,733.52	0	1,486.12	
1/4	1/4	3,450.50	1/4	3,211.82	1/4	2,965.11	1/4	2,717.78	1/4	2,470.44	1/4	2,223.11	1/4	1,975.77	1/4	1,728.37	1/4	1,480.97	
1/2	1/2	3,446.94	1/2	3,206.68	1/2	2,959.96	1/2	2,712.62	1/2	2,465.29	1/2	2,217.95	1/2	1,970.62	1/2	1,723.22	1/2	1,475.81	
3/4	3/4	3,443.39	3/4	3,201.54	3/4	2,954.80	3/4	2,707.47	3/4	2,460.14	3/4	2,212.80	3/4	1,965.47	3/4	1,718.06	3/4	1,470.66	
1	1	3,439.83	1	3,196.41	1	2,949.65	1	2,702.32	1	2,454.98	1	2,207.65	1	1,960.31	1	1,712.91	1	1,465.51	
1/4	1/4	3,435.35	1/4	3,191.27	1/4	2,944.50	1/4	2,697.16	1/4	2,449.83	1/4	2,202.50	1/4	1,955.16	1/4	1,707.75	1/4	1,460.35	
1/2	1/2	3,430.88	1/2	3,186.13	1/2	2,939.35	1/2	2,692.01	1/2	2,444.68	1/2	2,197.34	1/2	1,950.01	1/2	1,702.60	1/2	1,455.20	
3/4	3/4	3,426.41	3/4	3,180.99	3/4	2,934.19	3/4	2,686.86	3/4	2,439.52	3/4	2,192.19	3/4	1,944.86	3/4	1,697.45	3/4	1,450.04	
2	2	3,421.93	2	3,175.85	2	2,929.04	2	2,681.71	2	2,434.37	2	2,187.04	2	1,939.70	2	1,692.29	2	1,444.89	
1/4	1/4	3,416.92	1/4	3,170.71	1/4	2,923.89	1/4	2,676.55	1/4	2,429.22	1/4	2,181.88	1/4	1,934.55	1/4	1,687.14	1/4	1,439.74	
1/2	1/2	3,411.91	1/2	3,165.58	1/2	2,918.73	1/2	2,671.40	1/2	2,424.07	1/2	2,176.73	1/2	1,929.39	1/2	1,681.98	1/2	1,434.58	
3/4	3/4	3,406.90	3/4	3,160.44	3/4	2,913.58	3/4	2,666.25	3/4	2,418.91	3/4	2,171.58	3/4	1,924.23	3/4	1,676.83	3/4	1,429.43	
3	3	3,401.88	3	3,155.30	3	2,908.43	3	2,661.09	3	2,413.76	3	2,166.43	3	1,919.08	3	1,671.67	3	1,424.27	
1/4	1/4	3,396.76	1/4	3,150.16	1/4	2,903.28	1/4	2,655.94	1/4	2,408.61	1/4	2,161.27	1/4	1,913.92	1/4	1,666.52	1/4	1,419.12	
1/2	1/2	3,391.63	1/2	3,145.02	1/2	2,898.12	1/2	2,650.79	1/2	2,403.45	1/2	2,156.12	1/2	1,908.77	1/2	1,661.37	1/2	1,413.96	
3/4	3/4	3,386.50	3/4	3,139.88	3/4	2,892.97	3/4	2,645.64	3/4	2,398.30	3/4	2,150.97	3/4	1,903.61	3/4	1,656.21	3/4	1,408.81	
4	4	3,381.38	4	3,134.74	4	2,887.82	4	2,640.48	4	2,393.15	4	2,145.81	4	1,898.46	4	1,651.06	4	1,403.66	
1/4	1/4	3,376.24	1/4	3,129.61	1/4	2,882.67	1/4	2,635.33	1/4	2,388.00	1/4	2,140.66	1/4	1,893.30	1/4	1,645.90	1/4	1,398.50	
1/2	1/2	3,371.10	1/2	3,124.47	1/2	2,877.51	1/2	2,630.18	1/2	2,382.84	1/2	2,135.51	1/2	1,888.15	1/2	1,640.75	1/2	1,393.35	
3/4	3/4	3,365.97	3/4	3,119.33	3/4	2,872.36	3/4	2,625.03	3/4	2,377.69	3/4	2,130.36	3/4	1,883.00	3/4	1,635.59	3/4	1,388.19	
5	5	3,360.83	5	3,114.19	5	2,867.21	5	2,619.87	5	2,372.54	5	2,125.20	5	1,877.84	5	1,630.44	5	1,383.04	
1/4	1/4	3,355.69	1/4	3,109.05	1/4	2,862.05	1/4	2,614.72	1/4	2,367.39	1/4	2,120.05	1/4	1,872.69	1/4	1,625.29	1/4	1,377.88	
1/2	1/2	3,350.56	1/2	3,103.91	1/2	2,856.90	1/2	2,609.57	1/2	2,362.23	1/2	2,114.90	1/2	1,867.53	1/2	1,620.13	1/2	1,372.73	
3/4	3/4	3,345.42	3/4	3,098.78	3/4	2,851.75	3/4	2,604.41	3/4	2,357.08	3/4	2,109.75	3/4	1,862.38	3/4	1,614.98	3/4	1,367.58	
6	6	3,340.28	6	3,093.64	6	2,846.60	6	2,599.26	6	2,351.93	6	2,104.59	6	1,857.23	6	1,609.82	6	1,362.42	
1/4	1/4	3,335.14	1/4	3,088.50	1/4	2,841.44	1/4	2,594.11	1/4	2,346.77	1/4	2,099.44	1/4	1,852.07	1/4	1,604.67	1/4	1,357.27	
1/2	1/2	3,330.00	1/2	3,083.36	1/2	2,836.29	1/2	2,588.96	1/2	2,341.62	1/2	2,094.29	1/2	1,846.92	1/2	1,599.52	1/2	1,352.11	
3/4	3/4	3,324.87	3/4	3,078.22	3/4	2,831.14	3/4	2,583.80	3/4	2,336.47	3/4	2,089.13	3/4	1,841.76	3/4	1,594.36	3/4	1,346.96	
7	7	3,319.73	7	3,073.08	7	2,825.98	7	2,578.65	7	2,331.32	7	2,083.98	7	1,836.61	7	1,589.21	7	1,341.81	
1/4	1/4	3,314.59	1/4	3,067.95	1/4	2,820.83	1/4	2,573.50	1/4	2,326.16	1/4	2,078.83	1/4	1,831.45	1/4	1,584.05	1/4	1,336.65	
1/2	1/2	3,309.45	1/2	3,062.81	1/2	2,815.68	1/2	2,568.34	1/2	2,321.01	1/2	2,073.68	1/2	1,826.30	1/2	1,578.90	1/2	1,331.50	
3/4	3/4	3,304.31	3/4	3,057.67	3/4	2,810.53	3/4	2,563.19	3/4	2,315.86	3/4	2,068.52	3/4	1,821.15	3/4	1,573.74	3/4	1,326.34	
8	8	3,299.17	8	3,052.53	8	2,805.37	8	2,558.04	8	2,310.70	8	2,063.37	8	1,815.99	8	1,568.59	8	1,321.19	
1/4	1/4	3,294.04	1/4	3,047.39	1/4	2,800.22	1/4	2,552.89	1/4	2,305.55	1/4	2,058.22	1/4	1,810.84	1/4	1,563.44	1/4	1,316.03	
1/2	1/2	3,288.90	1/2	3,042.25	1/2	2,795.07	1/2	2,547.73	1/2	2,300.40	1/2	2,053.06	1/2	1,805.68	1/2	1,558.28	1/2	1,310.88	
3/4	3/4	3,283.76	3/4	3,037.12	3/4	2,789.91	3/4	2,542.58	3/4	2,295.25	3/4	2,047.91	3/4	1,800.53	3/4	1,553.13	3/4	1,305.73	
9	9	3,278.62	9	3,031.98	9	2,784.76	9	2,537.43	9	2,290.09	9	2,042.76	9	1,795.38	9	1,547.97	9	1,300.57	
1/4	1/4	3,273.48	1/4	3,026.84	1/4	2,779.61	1/4	2,532.27	1/4	2,284.94	1/4	2,037.61	1/4	1,790.22	1/4	1,542.82	1/4	1,295.42	
1/2	1/2	3,268.34	1/2	3,021.70	1/2	2,774.46	1/2	2,527.12	1/2	2,279.79	1/2	2,032.45	1/2	1,785.07	1/2	1,537.67	1/2	1,290.26	
3/4	3/4	3,263.20	3/4	3,016.56	3/4	2,769.30	3/4	2,521.97	3/4	2,274.63	3/4	2,027.30	3/4	1,779.91	3/4	1,532.51	3/4	1,285.11	
10	10	3,258.07	10	3,011.42	10	2,764.15	10	2,516.82	10	2,269.48	10	2,022.15	10	1,774.76	10	1,527.36	10	1,279.96	
1/4	1/4	3,252.93	1/4	3,006.28	1/4	2,759.00	1/4	2,511.66	1/4	2,264.33	1/4	2,016.99	1/4	1,769.60	1/4	1,522.20	1/4	1,274.80	
1/2	1/2	3,247.79	1/2	3,001.15	1/2	2,753.85	1/2	2,506.51	1/2	2,259.18	1/2	2,011.84	1/2	1,764.45	1/2	1,517.05	1/2	1,269.65	
3/4	3/4	3,242.65	3/4	2,996.01	3/4	2,748.69	3/4	2,501.36	3/4	2,254.02	3/4	2,006.69	3/4	1,759.30	3/4	1,511.89	3/4	1,264.49	
11	11	3,237.51	11	2,990.87	11	2,743.54	11	2,496.21	11	2,248.87	11	2,001.54	11	1,754.14	11	1,506.74	11	1,259.34	
1/4	1/4	3,232.37	1/4	2,985.72	1/4	2,738.39	1/4	2,491.05	1/4	2,243.72	1/4	1,996.38	1/4	1,748.99	1/4	1,501.59	1/4	1,254.18	
1/2	1/2	3,227.24	1/2	2,980.57	1/2	2,733.23	1/2	2,485.90	1/2	2,238.57	1/2	1,991.23	1/2	1,743.83	1/2	1,496.43	1/2	1,249.03	
3/4	3/4	3,222.10	3/4	2,975.41	3/4	2,728.08	3/4	2,480.75	3/4	2,233.41	3/4	1,986.08	3/4	1,738.68	3/4	1,491.28	3/4	1,243.88	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

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



BARGE "MM 118"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	1,238.72	0	991.32	0	743.95	0	497.11	0	252.20	0	47.94	0		0		0		0	
1/4	1,233.57	1/4	986.17	1/4	738.81	1/4	491.95	1/4	247.42	1/4	44.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,228.41	1/2	981.01	1/2	733.66	1/2	486.80	1/2	242.63	1/2	40.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,223.26	3/4	975.86	3/4	728.52	3/4	481.64	3/4	237.85	3/4	36.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,218.10	1	970.70	1	723.37	1	476.49	1	233.07	1	33.08	1	1	1	1	1	1	1	1
1/4	1,212.95	1/4	965.55	1/4	718.23	1/4	471.34	1/4	228.38	1/4	29.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,207.80	1/2	960.39	1/2	713.09	1/2	466.18	1/2	223.70	1/2	26.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,202.64	3/4	955.24	3/4	707.95	3/4	461.03	3/4	219.01	3/4	23.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,197.49	2	950.09	2	702.81	2	455.87	2	214.33	2	20.44	2	2	2	2	2	2	2	2
1/4	1,192.33	1/4	944.93	1/4	697.68	1/4	450.72	1/4	209.73	1/4	18.49	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,187.18	1/2	939.78	1/2	692.54	1/2	445.57	1/2	205.14	1/2	16.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,182.03	3/4	934.62	3/4	687.40	3/4	440.41	3/4	200.54	3/4	14.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,176.87	3	929.47	3	682.26	3	435.26	3	195.95	3	12.64	3	3	3	3	3	3	3	3
1/4	1,171.72	1/4	924.32	1/4	677.12	1/4	430.10	1/4	191.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,166.56	1/2	919.16	1/2	671.98	1/2	424.95	1/2	186.91	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,161.41	3/4	914.01	3/4	666.85	3/4	419.80	3/4	182.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,156.25	4	908.85	4	661.71	4	414.64	4	177.87	4	4	4	4	4	4	4	4	4	4
1/4	1,151.10	1/4	903.70	1/4	656.57	1/4	409.49	1/4	173.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,145.95	1/2	898.54	1/2	651.43	1/2	404.33	1/2	169.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,140.79	3/4	893.39	3/4	646.29	3/4	399.18	3/4	164.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,135.64	5	888.24	5	641.15	5	394.03	5	160.14	5	5	5	5	5	5	5	5	5	5
1/4	1,130.48	1/4	883.08	1/4	636.02	1/4	388.87	1/4	155.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,125.33	1/2	877.93	1/2	630.88	1/2	383.72	1/2	151.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,120.17	3/4	872.77	3/4	625.74	3/4	378.56	3/4	147.10	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,115.02	6	867.62	6	620.60	6	373.41	6	142.75	6	6	6	6	6	6	6	6	6	6
1/4	1,109.87	1/4	862.46	1/4	615.46	1/4	368.26	1/4	138.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,104.71	1/2	857.31	1/2	610.32	1/2	363.10	1/2	134.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,099.56	3/4	852.16	3/4	605.19	3/4	357.95	3/4	129.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,094.40	7	847.00	7	600.05	7	352.79	7	125.71	7	7	7	7	7	7	7	7	7	7
1/4	1,089.25	1/4	841.85	1/4	594.91	1/4	347.64	1/4	121.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,084.10	1/2	836.69	1/2	589.77	1/2	342.49	1/2	117.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,078.94	3/4	831.54	3/4	584.63	3/4	337.33	3/4	113.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,073.79	8	826.39	8	579.49	8	332.18	8	109.83	8	8	8	8	8	8	8	8	8	8
1/4	1,068.63	1/4	821.23	1/4	574.35	1/4	327.06	1/4	106.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,063.48	1/2	816.08	1/2	569.22	1/2	321.94	1/2	102.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,058.32	3/4	810.92	3/4	564.08	3/4	316.81	3/4	98.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,053.17	9	805.77	9	558.94	9	311.69	9	94.57	9	9	9	9	9	9	9	9	9	9
1/4	1,048.02	1/4	800.61	1/4	553.79	1/4	306.65	1/4	90.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,042.86	1/2	795.46	1/2	548.64	1/2	301.60	1/2	86.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,037.71	3/4	790.31	3/4	543.49	3/4	296.56	3/4	82.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,032.55	10	785.15	10	538.34	10	291.51	10	78.85	10	10	10	10	10	10	10	10	10	10
1/4	1,027.40	1/4	780.00	1/4	533.18	1/4	286.56	1/4	74.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,022.25	1/2	774.84	1/2	528.03	1/2	281.60	1/2	71.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,017.09	3/4	769.69	3/4	522.88	3/4	276.64	3/4	67.12	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,011.94	11	764.54	11	517.72	11	271.68	11	63.21	11	11	11	11	11	11	11	11	11	11
1/4	1,006.78	1/4	759.39	1/4	512.57	1/4	266.81	1/4	59.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,001.63	1/2	754.24	1/2	507.41	1/2	261.94	1/2	55.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	996.47	3/4	749.10	3/4	502.26	3/4	257.07	3/4	51.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018



BARGE "MM 118"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,907.88	0	3,643.65	0	3,368.72	0	3,093.07	0	2,817.42	0	2,541.76	0	2,266.11	0	1,990.40	0	1,714.66	
1/4	1/4	3,903.92	1/4	3,637.92	1/4	3,362.98	1/4	3,087.33	1/4	2,811.67	1/4	2,536.02	1/4	2,260.36	1/4	1,984.65	1/4	1,708.92	
1/2	1/2	3,899.95	1/2	3,632.19	1/2	3,357.24	1/2	3,081.58	1/2	2,805.93	1/2	2,530.28	1/2	2,254.62	1/2	1,978.91	1/2	1,703.18	
3/4	3/4	3,895.99	3/4	3,626.47	3/4	3,351.50	3/4	3,075.84	3/4	2,800.19	3/4	2,524.53	3/4	2,248.88	3/4	1,973.16	3/4	1,697.43	
1	1	3,892.02	1	3,620.74	1	3,345.75	1	3,070.10	1	2,794.44	1	2,518.79	1	2,243.14	1	1,967.42	1	1,691.69	
1/4	1/4	3,887.04	1/4	3,615.01	1/4	3,340.01	1/4	3,064.36	1/4	2,788.70	1/4	2,513.05	1/4	2,237.39	1/4	1,961.67	1/4	1,685.94	
1/2	1/2	3,882.05	1/2	3,609.29	1/2	3,334.27	1/2	3,058.61	1/2	2,782.96	1/2	2,507.30	1/2	2,231.65	1/2	1,955.93	1/2	1,680.20	
3/4	3/4	3,877.07	3/4	3,603.56	3/4	3,328.53	3/4	3,052.87	3/4	2,777.22	3/4	2,501.56	3/4	2,225.91	3/4	1,950.19	3/4	1,674.45	
2	2	3,872.08	2	3,597.83	2	3,322.78	2	3,047.13	2	2,771.47	2	2,495.82	2	2,220.16	2	1,944.44	2	1,668.71	
1/4	1/4	3,866.50	1/4	3,592.11	1/4	3,317.04	1/4	3,041.39	1/4	2,765.73	1/4	2,490.08	1/4	2,214.42	1/4	1,938.70	1/4	1,662.97	
1/2	1/2	3,860.91	1/2	3,586.38	1/2	3,311.30	1/2	3,035.64	1/2	2,759.99	1/2	2,484.33	1/2	2,208.68	1/2	1,932.95	1/2	1,657.22	
3/4	3/4	3,855.32	3/4	3,580.65	3/4	3,305.55	3/4	3,029.90	3/4	2,754.25	3/4	2,478.59	3/4	2,202.94	3/4	1,927.21	3/4	1,651.48	
3	3	3,849.74	3	3,574.93	3	3,299.81	3	3,024.16	3	2,748.50	3	2,472.85	3	2,197.19	3	1,921.46	3	1,645.73	
1/4	1/4	3,844.02	1/4	3,569.20	1/4	3,294.07	1/4	3,018.41	1/4	2,742.76	1/4	2,467.11	1/4	2,191.45	1/4	1,915.72	1/4	1,639.99	
1/2	1/2	3,838.31	1/2	3,563.47	1/2	3,288.33	1/2	3,012.67	1/2	2,737.02	1/2	2,461.36	1/2	2,185.71	1/2	1,909.97	1/2	1,634.24	
3/4	3/4	3,832.60	3/4	3,557.75	3/4	3,282.58	3/4	3,006.93	3/4	2,731.27	3/4	2,455.62	3/4	2,179.96	3/4	1,904.23	3/4	1,628.50	
4	4	3,826.88	4	3,552.02	4	3,276.84	4	3,001.19	4	2,725.53	4	2,449.88	4	2,174.22	4	1,898.49	4	1,622.75	
1/4	1/4	3,821.16	1/4	3,546.30	1/4	3,271.10	1/4	2,995.44	1/4	2,719.79	1/4	2,444.13	1/4	2,168.47	1/4	1,892.74	1/4	1,617.01	
1/2	1/2	3,815.43	1/2	3,540.57	1/2	3,265.35	1/2	2,989.70	1/2	2,714.05	1/2	2,438.39	1/2	2,162.73	1/2	1,887.00	1/2	1,611.27	
3/4	3/4	3,809.71	3/4	3,534.84	3/4	3,259.61	3/4	2,983.96	3/4	2,708.30	3/4	2,432.65	3/4	2,156.98	3/4	1,881.25	3/4	1,605.52	
5	5	3,803.99	5	3,529.12	5	3,253.87	5	2,978.21	5	2,702.56	5	2,426.91	5	2,151.24	5	1,875.51	5	1,599.78	
1/4	1/4	3,798.26	1/4	3,523.39	1/4	3,248.13	1/4	2,972.47	1/4	2,696.82	1/4	2,421.16	1/4	2,145.49	1/4	1,869.76	1/4	1,594.03	
1/2	1/2	3,792.53	1/2	3,517.66	1/2	3,242.38	1/2	2,966.73	1/2	2,691.07	1/2	2,415.42	1/2	2,139.75	1/2	1,864.02	1/2	1,588.29	
3/4	3/4	3,786.81	3/4	3,511.94	3/4	3,236.64	3/4	2,960.99	3/4	2,685.33	3/4	2,409.68	3/4	2,134.01	3/4	1,858.27	3/4	1,582.54	
6	6	3,781.08	6	3,506.21	6	3,230.90	6	2,955.24	6	2,679.59	6	2,403.93	6	2,128.26	6	1,852.53	6	1,576.80	
1/4	1/4	3,775.36	1/4	3,500.48	1/4	3,225.15	1/4	2,949.50	1/4	2,673.85	1/4	2,398.19	1/4	2,122.52	1/4	1,846.79	1/4	1,571.05	
1/2	1/2	3,769.63	1/2	3,494.76	1/2	3,219.41	1/2	2,943.76	1/2	2,668.10	1/2	2,392.45	1/2	2,116.77	1/2	1,841.04	1/2	1,565.31	
3/4	3/4	3,763.90	3/4	3,489.03	3/4	3,213.67	3/4	2,938.01	3/4	2,662.36	3/4	2,386.71	3/4	2,111.03	3/4	1,835.30	3/4	1,559.57	
7	7	3,758.18	7	3,483.30	7	3,207.93	7	2,932.27	7	2,656.62	7	2,380.96	7	2,105.28	7	1,829.55	7	1,553.82	
1/4	1/4	3,752.45	1/4	3,477.58	1/4	3,202.18	1/4	2,926.53	1/4	2,650.87	1/4	2,375.22	1/4	2,099.54	1/4	1,823.81	1/4	1,548.08	
1/2	1/2	3,746.72	1/2	3,471.85	1/2	3,196.44	1/2	2,920.79	1/2	2,645.13	1/2	2,369.48	1/2	2,093.80	1/2	1,818.06	1/2	1,542.33	
3/4	3/4	3,741.00	3/4	3,466.12	3/4	3,190.70	3/4	2,915.04	3/4	2,639.39	3/4	2,363.73	3/4	2,088.05	3/4	1,812.32	3/4	1,536.59	
8	8	3,735.27	8	3,460.40	8	3,184.96	8	2,909.30	8	2,633.65	8	2,357.99	8	2,082.31	8	1,806.58	8	1,530.84	
1/4	1/4	3,729.54	1/4	3,454.67	1/4	3,179.21	1/4	2,903.56	1/4	2,627.90	1/4	2,352.25	1/4	2,076.56	1/4	1,800.83	1/4	1,525.10	
1/2	1/2	3,723.82	1/2	3,448.94	1/2	3,173.47	1/2	2,897.82	1/2	2,622.16	1/2	2,346.51	1/2	2,070.82	1/2	1,795.09	1/2	1,519.36	
3/4	3/4	3,718.09	3/4	3,443.22	3/4	3,167.73	3/4	2,892.07	3/4	2,616.42	3/4	2,340.76	3/4	2,065.07	3/4	1,789.34	3/4	1,513.61	
9	9	3,712.36	9	3,437.49	9	3,161.98	9	2,886.33	9	2,610.68	9	2,335.02	9	2,059.33	9	1,783.60	9	1,507.87	
1/4	1/4	3,706.64	1/4	3,431.77	1/4	3,156.24	1/4	2,880.59	1/4	2,604.93	1/4	2,329.28	1/4	2,053.58	1/4	1,777.85	1/4	1,502.12	
1/2	1/2	3,700.91	1/2	3,426.04	1/2	3,150.50	1/2	2,874.84	1/2	2,599.19	1/2	2,323.54	1/2	2,047.84	1/2	1,772.11	1/2	1,496.38	
3/4	3/4	3,695.18	3/4	3,420.31	3/4	3,144.76	3/4	2,869.10	3/4	2,593.45	3/4	2,317.79	3/4	2,042.10	3/4	1,766.36	3/4	1,490.63	
10	10	3,689.46	10	3,414.59	10	3,139.01	10	2,863.36	10	2,587.70	10	2,312.05	10	2,036.35	10	1,760.62	10	1,484.89	
1/4	1/4	3,683.73	1/4	3,408.86	1/4	3,133.27	1/4	2,857.62	1/4	2,581.96	1/4	2,306.31	1/4	2,030.61	1/4	1,754.88	1/4	1,479.14	
1/2	1/2	3,678.00	1/2	3,403.13	1/2	3,127.53	1/2	2,851.87	1/2	2,576.22	1/2	2,300.56	1/2	2,024.86	1/2	1,749.13	1/2	1,473.40	
3/4	3/4	3,672.28	3/4	3,397.41	3/4	3,121.78	3/4	2,846.13	3/4	2,570.48	3/4	2,294.82	3/4	2,019.12	3/4	1,743.39	3/4	1,467.66	
11	11	3,666.55	11	3,391.68	11	3,116.04	11	2,840.39	11	2,564.73	11	2,289.08	11	2,013.37	11	1,737.64	11	1,461.91	
1/4	1/4	3,660.83	1/4	3,385.94	1/4	3,110.30	1/4	2,834.64	1/4	2,558.99	1/4	2,283.34	1/4	2,007.63	1/4	1,731.90	1/4	1,456.17	
1/2	1/2	3,655.10	1/2	3,380.20	1/2	3,104.56	1/2	2,828.90	1/2	2,553.25	1/2	2,277.59	1/2	2,001.88	1/2	1,726.15	1/2	1,450.42	
3/4	3/4	3,649.37	3/4	3,374.46	3/4	3,098.81	3/4	2,823.16	3/4	2,547.50	3/4	2,271.85	3/4	1,996.14	3/4	1,720.41	3/4	1,444.68	

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 AT GAUGE POINT

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "MM 118"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	1,438.93	0	1,163.20	0	888.25	0	624.43	0	348.70	0	75.28	0		0		0		0	
1/4	1,433.19	1/4	1,157.46	1/4	882.77	1/4	618.68	1/4	342.96	1/4	69.56	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,427.44	1/2	1,151.71	1/2	877.29	1/2	612.94	1/2	337.22	1/2	63.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,421.70	3/4	1,145.97	3/4	871.80	3/4	607.19	3/4	331.47	3/4	58.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,415.96	1	1,140.22	1	866.32	1	601.45	1	325.73	1	52.39	1	1	1	1	1	1	1	1
1/4	1,410.21	1/4	1,134.48	1/4	860.84	1/4	595.71	1/4	319.99	1/4	47.20	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,404.47	1/2	1,128.74	1/2	855.36	1/2	589.96	1/2	314.26	1/2	42.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,398.72	3/4	1,122.99	3/4	849.88	3/4	584.22	3/4	308.53	3/4	36.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,392.98	2	1,117.25	2	844.40	2	578.47	2	302.79	2	31.60	2	2	2	2	2	2	2	2
1/4	1,387.23	1/4	1,111.50	1/4	838.92	1/4	572.73	1/4	297.06	1/4	27.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,381.49	1/2	1,105.76	1/2	833.44	1/2	566.98	1/2	291.33	1/2	23.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,375.75	3/4	1,100.01	3/4	827.96	3/4	561.24	3/4	285.60	3/4	19.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,370.00	3	1,094.27	3	822.48	3	555.50	3	279.87	3	15.81	3	3	3	3	3	3	3	3
1/4	1,364.26	1/4	1,088.53	1/4	817.01	1/4	549.75	1/4	274.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,358.51	1/2	1,082.78	1/2	811.53	1/2	544.01	1/2	268.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,352.77	3/4	1,077.04	3/4	806.05	3/4	538.26	3/4	262.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,347.02	4	1,071.29	4	800.57	4	532.52	4	256.91	4		4	4	4	4	4	4	4	4
1/4	1,341.28	1/4	1,065.55	1/4	795.09	1/4	526.78	1/4	251.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,335.53	1/2	1,059.80	1/2	789.61	1/2	521.03	1/2	245.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,329.79	3/4	1,054.06	3/4	784.14	3/4	515.29	3/4	239.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,324.05	5	1,048.31	5	778.66	5	509.54	5	233.93	5		5	5	5	5	5	5	5	5
1/4	1,318.30	1/4	1,042.57	1/4	773.18	1/4	503.80	1/4	228.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,312.56	1/2	1,036.83	1/2	767.70	1/2	498.05	1/2	222.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,306.81	3/4	1,031.08	3/4	762.22	3/4	492.31	3/4	216.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,301.07	6	1,025.34	6	756.74	6	486.57	6	210.95	6		6	6	6	6	6	6	6	6
1/4	1,295.32	1/4	1,019.59	1/4	751.27	1/4	480.82	1/4	205.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,289.58	1/2	1,013.85	1/2	745.79	1/2	475.08	1/2	199.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,283.83	3/4	1,008.10	3/4	740.31	3/4	469.33	3/4	193.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,278.09	7	1,002.36	7	734.83	7	463.59	7	187.98	7		7	7	7	7	7	7	7	7
1/4	1,272.35	1/4	996.61	1/4	729.35	1/4	457.84	1/4	182.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,266.60	1/2	990.87	1/2	723.87	1/2	452.10	1/2	176.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,260.86	3/4	985.13	3/4	718.40	3/4	446.36	3/4	171.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,255.11	8	979.38	8	712.92	8	440.61	8	165.81	8		8	8	8	8	8	8	8	8
1/4	1,249.37	1/4	973.64	1/4	707.44	1/4	434.87	1/4	160.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,243.62	1/2	967.89	1/2	701.96	1/2	429.12	1/2	154.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,237.88	3/4	962.15	3/4	696.48	3/4	423.38	3/4	149.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,232.14	9	956.40	9	691.00	9	417.64	9	143.91	9		9	9	9	9	9	9	9	9
1/4	1,226.39	1/4	950.66	1/4	685.52	1/4	411.89	1/4	138.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,220.65	1/2	944.92	1/2	680.04	1/2	406.15	1/2	132.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,214.90	3/4	939.17	3/4	674.56	3/4	400.40	3/4	126.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,209.16	10	933.43	10	669.07	10	394.66	10	121.21	10		10	10	10	10	10	10	10	10
1/4	1,203.41	1/4	927.68	1/4	663.59	1/4	388.91	1/4	115.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,197.67	1/2	921.94	1/2	658.11	1/2	383.17	1/2	109.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,191.92	3/4	916.19	3/4	652.62	3/4	377.43	3/4	103.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,186.18	11	910.45	11	647.14	11	371.68	11	98.23	11		11	11	11	11	11	11	11	11
1/4	1,180.44	1/4	904.90	1/4	641.46	1/4	365.94	1/4	92.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,174.69	1/2	899.35	1/2	635.78	1/2	360.19	1/2	86.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,168.95	3/4	893.80	3/4	630.10	3/4	354.45	3/4	81.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

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BARGE "MM 118"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,921.82	0	3,657.47	0	3,382.41	0	3,106.63	0	2,830.85	0	2,555.06	0	2,279.28	0	2,003.43	0	1,727.57	
1/4	1/4	3,917.86	1/4	3,651.74	1/4	3,376.67	1/4	3,100.88	1/4	2,825.10	1/4	2,549.32	1/4	2,273.53	1/4	1,997.68	1/4	1,721.82	
1/2	1/2	3,913.89	1/2	3,646.01	1/2	3,370.92	1/2	3,095.14	1/2	2,819.36	1/2	2,543.57	1/2	2,267.79	1/2	1,991.94	1/2	1,716.08	
3/4	3/4	3,909.93	3/4	3,640.28	3/4	3,365.18	3/4	3,089.39	3/4	2,813.61	3/4	2,537.83	3/4	2,262.04	3/4	1,986.19	3/4	1,710.33	
1	1	3,905.96	1	3,634.55	1	3,359.43	1	3,083.65	1	2,807.86	1	2,532.08	1	2,256.30	1	1,980.44	1	1,704.58	
1/4	1/4	3,900.97	1/4	3,628.82	1/4	3,353.69	1/4	3,077.90	1/4	2,802.12	1/4	2,526.33	1/4	2,250.55	1/4	1,974.70	1/4	1,698.84	
1/2	1/2	3,895.98	1/2	3,623.09	1/2	3,347.94	1/2	3,072.16	1/2	2,796.37	1/2	2,520.59	1/2	2,244.81	1/2	1,968.95	1/2	1,693.09	
3/4	3/4	3,891.00	3/4	3,617.37	3/4	3,342.20	3/4	3,066.41	3/4	2,790.63	3/4	2,514.84	3/4	2,239.06	3/4	1,963.20	3/4	1,687.34	
2	2	3,886.01	2	3,611.64	2	3,336.45	2	3,060.67	2	2,784.88	2	2,509.10	2	2,233.31	2	1,957.45	2	1,681.59	
1/4	1/4	3,880.42	1/4	3,605.91	1/4	3,330.70	1/4	3,054.92	1/4	2,779.14	1/4	2,503.35	1/4	2,227.57	1/4	1,951.71	1/4	1,675.85	
1/2	1/2	3,874.83	1/2	3,600.18	1/2	3,324.96	1/2	3,049.18	1/2	2,773.39	1/2	2,497.61	1/2	2,221.82	1/2	1,945.96	1/2	1,670.10	
3/4	3/4	3,869.24	3/4	3,594.45	3/4	3,319.21	3/4	3,043.43	3/4	2,767.65	3/4	2,491.86	3/4	2,216.07	3/4	1,940.21	3/4	1,664.35	
3	3	3,863.65	3	3,588.72	3	3,313.47	3	3,037.68	3	2,761.90	3	2,486.12	3	2,210.33	3	1,934.47	3	1,658.61	
1/4	1/4	3,857.94	1/4	3,582.99	1/4	3,307.72	1/4	3,031.94	1/4	2,756.15	1/4	2,480.37	1/4	2,204.58	1/4	1,928.72	1/4	1,652.86	
1/2	1/2	3,852.22	1/2	3,577.26	1/2	3,301.98	1/2	3,026.19	1/2	2,750.41	1/2	2,474.63	1/2	2,198.83	1/2	1,922.97	1/2	1,647.11	
3/4	3/4	3,846.50	3/4	3,571.53	3/4	3,296.23	3/4	3,020.45	3/4	2,744.66	3/4	2,468.88	3/4	2,193.09	3/4	1,917.23	3/4	1,641.36	
4	4	3,840.79	4	3,565.80	4	3,290.49	4	3,014.70	4	2,738.92	4	2,463.13	4	2,187.34	4	1,911.48	4	1,635.62	
1/4	1/4	3,835.06	1/4	3,560.07	1/4	3,284.74	1/4	3,008.96	1/4	2,733.17	1/4	2,457.39	1/4	2,181.59	1/4	1,905.73	1/4	1,629.87	
1/2	1/2	3,829.34	1/2	3,554.34	1/2	3,279.00	1/2	3,003.21	1/2	2,727.43	1/2	2,451.64	1/2	2,175.84	1/2	1,899.98	1/2	1,624.12	
3/4	3/4	3,823.61	3/4	3,548.61	3/4	3,273.25	3/4	2,997.47	3/4	2,721.68	3/4	2,445.90	3/4	2,170.10	3/4	1,894.24	3/4	1,618.38	
5	5	3,817.89	5	3,542.89	5	3,267.50	5	2,991.72	5	2,715.94	5	2,440.15	5	2,164.35	5	1,888.49	5	1,612.63	
1/4	1/4	3,812.16	1/4	3,537.16	1/4	3,261.76	1/4	2,985.97	1/4	2,710.19	1/4	2,434.41	1/4	2,158.60	1/4	1,882.74	1/4	1,606.88	
1/2	1/2	3,806.43	1/2	3,531.43	1/2	3,256.01	1/2	2,980.23	1/2	2,704.45	1/2	2,428.66	1/2	2,152.86	1/2	1,877.00	1/2	1,601.13	
3/4	3/4	3,800.70	3/4	3,525.70	3/4	3,250.27	3/4	2,974.48	3/4	2,698.70	3/4	2,422.92	3/4	2,147.11	3/4	1,871.25	3/4	1,595.39	
6	6	3,794.97	6	3,519.97	6	3,244.52	6	2,968.74	6	2,692.95	6	2,417.17	6	2,141.36	6	1,865.50	6	1,589.64	
1/4	1/4	3,789.24	1/4	3,514.24	1/4	3,238.78	1/4	2,962.99	1/4	2,687.21	1/4	2,411.42	1/4	2,135.62	1/4	1,859.75	1/4	1,583.89	
1/2	1/2	3,783.51	1/2	3,508.51	1/2	3,233.03	1/2	2,957.25	1/2	2,681.46	1/2	2,405.68	1/2	2,129.87	1/2	1,854.01	1/2	1,578.15	
3/4	3/4	3,777.78	3/4	3,502.78	3/4	3,227.29	3/4	2,951.50	3/4	2,675.72	3/4	2,399.93	3/4	2,124.12	3/4	1,848.26	3/4	1,572.40	
7	7	3,772.05	7	3,497.05	7	3,221.54	7	2,945.76	7	2,669.97	7	2,394.19	7	2,118.37	7	1,842.51	7	1,566.65	
1/4	1/4	3,766.32	1/4	3,491.32	1/4	3,215.79	1/4	2,940.01	1/4	2,664.23	1/4	2,388.44	1/4	2,112.63	1/4	1,836.77	1/4	1,560.91	
1/2	1/2	3,760.60	1/2	3,485.59	1/2	3,210.05	1/2	2,934.27	1/2	2,658.48	1/2	2,382.70	1/2	2,106.88	1/2	1,831.02	1/2	1,555.16	
3/4	3/4	3,754.87	3/4	3,479.86	3/4	3,204.30	3/4	2,928.52	3/4	2,652.74	3/4	2,376.95	3/4	2,101.13	3/4	1,825.27	3/4	1,549.41	
8	8	3,749.14	8	3,474.14	8	3,198.56	8	2,922.77	8	2,646.99	8	2,371.21	8	2,095.39	8	1,819.52	8	1,543.66	
1/4	1/4	3,743.41	1/4	3,468.41	1/4	3,192.81	1/4	2,917.03	1/4	2,641.24	1/4	2,365.46	1/4	2,089.64	1/4	1,813.78	1/4	1,537.92	
1/2	1/2	3,737.68	1/2	3,462.68	1/2	3,187.07	1/2	2,911.28	1/2	2,635.50	1/2	2,359.72	1/2	2,083.89	1/2	1,808.03	1/2	1,532.17	
3/4	3/4	3,731.95	3/4	3,456.95	3/4	3,181.32	3/4	2,905.54	3/4	2,629.75	3/4	2,353.97	3/4	2,078.14	3/4	1,802.28	3/4	1,526.42	
9	9	3,726.22	9	3,451.22	9	3,175.58	9	2,899.79	9	2,624.01	9	2,348.22	9	2,072.40	9	1,796.54	9	1,520.68	
1/4	1/4	3,720.49	1/4	3,445.49	1/4	3,169.83	1/4	2,894.05	1/4	2,618.26	1/4	2,342.48	1/4	2,066.65	1/4	1,790.79	1/4	1,514.93	
1/2	1/2	3,714.76	1/2	3,439.76	1/2	3,164.09	1/2	2,888.30	1/2	2,612.52	1/2	2,336.73	1/2	2,060.90	1/2	1,785.04	1/2	1,509.18	
3/4	3/4	3,709.03	3/4	3,434.03	3/4	3,158.34	3/4	2,882.56	3/4	2,606.77	3/4	2,330.99	3/4	2,055.16	3/4	1,779.29	3/4	1,503.43	
10	10	3,703.30	10	3,428.30	10	3,152.59	10	2,876.81	10	2,601.03	10	2,325.24	10	2,049.41	10	1,773.55	10	1,497.69	
1/4	1/4	3,697.57	1/4	3,422.57	1/4	3,146.85	1/4	2,871.06	1/4	2,595.28	1/4	2,319.50	1/4	2,043.66	1/4	1,767.80	1/4	1,491.94	
1/2	1/2	3,691.85	1/2	3,416.84	1/2	3,141.10	1/2	2,865.32	1/2	2,589.54	1/2	2,313.75	1/2	2,037.91	1/2	1,762.05	1/2	1,486.19	
3/4	3/4	3,686.12	3/4	3,411.11	3/4	3,135.36	3/4	2,859.57	3/4	2,583.79	3/4	2,308.01	3/4	2,032.17	3/4	1,756.31	3/4	1,480.45	
11	11	3,680.39	11	3,405.38	11	3,129.61	11	2,853.83	11	2,578.04	11	2,302.26	11	2,026.42	11	1,750.56	11	1,474.70	
1/4	1/4	3,674.66	1/4	3,399.64	1/4	3,123.87	1/4	2,848.08	1/4	2,572.30	1/4	2,296.51	1/4	2,020.67	1/4	1,744.81	1/4	1,468.95	
1/2	1/2	3,668.93	1/2	3,393.90	1/2	3,118.12	1/2	2,842.34	1/2	2,566.55	1/2	2,290.77	1/2	2,014.93	1/2	1,739.07	1/2	1,463.20	
3/4	3/4	3,663.20	3/4	3,388.16	3/4	3,112.38	3/4	2,836.59	3/4	2,560.81	3/4	2,285.02	3/4	2,009.18	3/4	1,733.32	3/4	1,457.46	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD

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



BARGE "MM 118"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-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	1,451.71	0	1,175.85	0	900.02	0	624.72	0	348.87	0	75.31	0		0		0		0	
1/4	1,445.96	1/4	1,170.10	1/4	894.28	1/4	618.98	1/4	343.12	1/4	69.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,440.22	1/2	1,164.36	1/2	888.55	1/2	613.23	1/2	337.38	1/2	63.87	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,434.47	3/4	1,158.61	3/4	882.81	3/4	607.48	3/4	331.63	3/4	58.14	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,428.72	1	1,152.86	1	877.07	1	601.73	1	325.88	1	52.42	1	1	1	1	1	1	1	1
1/4	1,422.97	1/4	1,147.11	1/4	871.34	1/4	595.99	1/4	320.15	1/4	47.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,417.23	1/2	1,141.37	1/2	865.61	1/2	590.24	1/2	314.41	1/2	42.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,411.48	3/4	1,135.62	3/4	859.87	3/4	584.49	3/4	308.67	3/4	36.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,405.73	2	1,129.87	2	854.14	2	578.75	2	302.94	2	31.62	2	2	2	2	2	2	2	2
1/4	1,399.99	1/4	1,124.13	1/4	848.41	1/4	573.00	1/4	297.20	1/4	27.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,394.24	1/2	1,118.38	1/2	842.68	1/2	567.25	1/2	291.47	1/2	23.71	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,388.49	3/4	1,112.63	3/4	836.95	3/4	561.51	3/4	285.74	3/4	19.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,382.74	3	1,106.88	3	831.22	3	555.76	3	280.00	3	15.81	3	3	3	3	3	3	3	3
1/4	1,377.00	1/4	1,101.14	1/4	825.49	1/4	550.01	1/4	274.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,371.25	1/2	1,095.39	1/2	819.75	1/2	544.27	1/2	268.52	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,365.50	3/4	1,089.64	3/4	814.02	3/4	538.52	3/4	262.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,359.76	4	1,083.90	4	808.29	4	532.77	4	257.03	4		4	4	4	4	4	4	4	4
1/4	1,354.01	1/4	1,078.15	1/4	802.56	1/4	527.02	1/4	251.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,348.26	1/2	1,072.40	1/2	796.83	1/2	521.28	1/2	245.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,342.52	3/4	1,066.65	3/4	791.10	3/4	515.53	3/4	239.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,336.77	5	1,060.91	5	785.37	5	509.78	5	234.04	5		5	5	5	5	5	5	5	5
1/4	1,331.02	1/4	1,055.16	1/4	779.64	1/4	504.04	1/4	228.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,325.27	1/2	1,049.41	1/2	773.90	1/2	498.29	1/2	222.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,319.53	3/4	1,043.67	3/4	768.17	3/4	492.54	3/4	216.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,313.78	6	1,037.92	6	762.44	6	486.80	6	211.05	6		6	6	6	6	6	6	6	6
1/4	1,308.03	1/4	1,032.17	1/4	756.71	1/4	481.05	1/4	205.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,302.29	1/2	1,026.42	1/2	750.98	1/2	475.30	1/2	199.56	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,296.54	3/4	1,020.68	3/4	745.25	3/4	469.56	3/4	193.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,290.79	7	1,014.93	7	739.52	7	463.81	7	188.07	7		7	7	7	7	7	7	7	7
1/4	1,285.04	1/4	1,009.18	1/4	733.79	1/4	458.06	1/4	182.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,279.30	1/2	1,003.44	1/2	728.05	1/2	452.32	1/2	176.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,273.55	3/4	997.69	3/4	722.32	3/4	446.57	3/4	171.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,267.80	8	991.94	8	716.59	8	440.82	8	165.89	8		8	8	8	8	8	8	8	8
1/4	1,262.06	1/4	986.20	1/4	710.86	1/4	435.07	1/4	160.41	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,256.31	1/2	980.45	1/2	705.13	1/2	429.33	1/2	154.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,250.56	3/4	974.70	3/4	699.40	3/4	423.58	3/4	149.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,244.81	9	968.95	9	693.67	9	417.83	9	143.98	9		9	9	9	9	9	9	9	9
1/4	1,239.07	1/4	963.21	1/4	687.93	1/4	412.09	1/4	138.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,233.32	1/2	957.46	1/2	682.18	1/2	406.34	1/2	132.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227.57	3/4	951.71	3/4	676.44	3/4	400.59	3/4	126.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,221.83	10	945.97	10	670.70	10	394.85	10	121.26	10		10	10	10	10	10	10	10	10
1/4	1,216.08	1/4	940.22	1/4	664.95	1/4	389.10	1/4	115.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,210.33	1/2	934.47	1/2	659.20	1/2	383.35	1/2	109.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,204.58	3/4	928.72	3/4	653.46	3/4	377.61	3/4	104.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,198.84	11	922.98	11	647.71	11	371.86	11	98.28	11		11	11	11	11	11	11	11	11
1/4	1,193.09	1/4	917.24	1/4	641.96	1/4	366.11	1/4	92.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,187.34	1/2	911.50	1/2	636.22	1/2	360.36	1/2	86.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,181.60	3/4	905.76	3/4	630.47	3/4	354.62	3/4	81.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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BARGE "MM 118"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,914.06	0	3,649.41	0	3,374.07	0	3,097.97	0	2,821.88	0	2,545.79	0	2,269.70	0	1,993.55	0	1,717.38	
1/4	1/4	3,910.09	1/4	3,643.67	1/4	3,368.31	1/4	3,092.22	1/4	2,816.13	1/4	2,540.04	1/4	2,263.95	1/4	1,987.79	1/4	1,711.63	
1/2	1/2	3,906.12	1/2	3,637.94	1/2	3,362.56	1/2	3,086.47	1/2	2,810.38	1/2	2,534.29	1/2	2,258.20	1/2	1,982.04	1/2	1,705.88	
3/4	3/4	3,902.15	3/4	3,632.20	3/4	3,356.81	3/4	3,080.72	3/4	2,804.63	3/4	2,528.54	3/4	2,252.44	3/4	1,976.28	3/4	1,700.12	
1	1	3,898.18	1	3,626.47	1	3,351.06	1	3,074.97	1	2,798.88	1	2,522.78	1	2,246.69	1	1,970.53	1	1,694.37	
1/4	1/4	3,893.19	1/4	3,620.73	1/4	3,345.31	1/4	3,069.21	1/4	2,793.12	1/4	2,517.03	1/4	2,240.94	1/4	1,964.78	1/4	1,688.61	
1/2	1/2	3,888.19	1/2	3,615.00	1/2	3,339.55	1/2	3,063.46	1/2	2,787.37	1/2	2,511.28	1/2	2,235.19	1/2	1,959.02	1/2	1,682.86	
3/4	3/4	3,883.20	3/4	3,609.26	3/4	3,333.80	3/4	3,057.71	3/4	2,781.62	3/4	2,505.53	3/4	2,229.44	3/4	1,953.27	3/4	1,677.11	
2	2	3,878.21	2	3,603.52	2	3,328.05	2	3,051.96	2	2,775.87	2	2,499.78	2	2,223.69	2	1,947.52	2	1,671.35	
1/4	1/4	3,872.61	1/4	3,597.79	1/4	3,322.30	1/4	3,046.21	1/4	2,770.12	1/4	2,494.02	1/4	2,217.93	1/4	1,941.76	1/4	1,665.60	
1/2	1/2	3,867.02	1/2	3,592.05	1/2	3,316.55	1/2	3,040.46	1/2	2,764.36	1/2	2,488.27	1/2	2,212.18	1/2	1,936.01	1/2	1,659.85	
3/4	3/4	3,861.42	3/4	3,586.32	3/4	3,310.79	3/4	3,034.70	3/4	2,758.61	3/4	2,482.52	3/4	2,206.42	3/4	1,930.26	3/4	1,654.09	
3	3	3,855.83	3	3,580.58	3	3,305.04	3	3,028.95	3	2,752.86	3	2,476.77	3	2,200.67	3	1,924.50	3	1,648.34	
1/4	1/4	3,850.11	1/4	3,574.85	1/4	3,299.29	1/4	3,023.20	1/4	2,747.11	1/4	2,471.02	1/4	2,194.91	1/4	1,918.75	1/4	1,642.59	
1/2	1/2	3,844.38	1/2	3,569.11	1/2	3,293.54	1/2	3,017.45	1/2	2,741.36	1/2	2,465.26	1/2	2,189.16	1/2	1,913.00	1/2	1,636.83	
3/4	3/4	3,838.66	3/4	3,563.38	3/4	3,287.79	3/4	3,011.70	3/4	2,735.60	3/4	2,459.51	3/4	2,183.41	3/4	1,907.24	3/4	1,631.08	
4	4	3,832.94	4	3,557.64	4	3,282.03	4	3,005.94	4	2,729.85	4	2,453.76	4	2,177.65	4	1,901.49	4	1,625.33	
1/4	1/4	3,827.20	1/4	3,551.90	1/4	3,276.28	1/4	3,000.19	1/4	2,724.10	1/4	2,448.01	1/4	2,171.90	1/4	1,895.74	1/4	1,619.57	
1/2	1/2	3,821.47	1/2	3,546.17	1/2	3,270.53	1/2	2,994.44	1/2	2,718.35	1/2	2,442.26	1/2	2,166.15	1/2	1,889.98	1/2	1,613.82	
3/4	3/4	3,815.74	3/4	3,540.43	3/4	3,264.78	3/4	2,988.69	3/4	2,712.60	3/4	2,436.51	3/4	2,160.39	3/4	1,884.23	3/4	1,608.07	
5	5	3,810.01	5	3,534.70	5	3,259.03	5	2,982.94	5	2,706.84	5	2,430.75	5	2,154.64	5	1,878.48	5	1,602.31	
1/4	1/4	3,804.27	1/4	3,528.96	1/4	3,253.28	1/4	2,977.18	1/4	2,701.09	1/4	2,425.00	1/4	2,148.89	1/4	1,872.72	1/4	1,596.56	
1/2	1/2	3,798.53	1/2	3,523.23	1/2	3,247.52	1/2	2,971.43	1/2	2,695.34	1/2	2,419.25	1/2	2,143.13	1/2	1,866.97	1/2	1,590.81	
3/4	3/4	3,792.80	3/4	3,517.49	3/4	3,241.77	3/4	2,965.68	3/4	2,689.59	3/4	2,413.50	3/4	2,137.38	3/4	1,861.22	3/4	1,585.05	
6	6	3,787.06	6	3,511.76	6	3,236.02	6	2,959.93	6	2,683.84	6	2,407.75	6	2,131.63	6	1,855.46	6	1,579.30	
1/4	1/4	3,781.32	1/4	3,506.02	1/4	3,230.27	1/4	2,954.18	1/4	2,678.09	1/4	2,401.99	1/4	2,125.87	1/4	1,849.71	1/4	1,573.55	
1/2	1/2	3,775.59	1/2	3,500.29	1/2	3,224.52	1/2	2,948.42	1/2	2,672.33	1/2	2,396.24	1/2	2,120.12	1/2	1,843.96	1/2	1,567.79	
3/4	3/4	3,769.85	3/4	3,494.55	3/4	3,218.76	3/4	2,942.67	3/4	2,666.58	3/4	2,390.49	3/4	2,114.37	3/4	1,838.20	3/4	1,562.04	
7	7	3,764.12	7	3,488.81	7	3,213.01	7	2,936.92	7	2,660.83	7	2,384.74	7	2,108.61	7	1,832.45	7	1,556.29	
1/4	1/4	3,758.38	1/4	3,483.08	1/4	3,207.26	1/4	2,931.17	1/4	2,655.08	1/4	2,378.99	1/4	2,102.86	1/4	1,826.70	1/4	1,550.53	
1/2	1/2	3,752.65	1/2	3,477.34	1/2	3,201.51	1/2	2,925.42	1/2	2,649.33	1/2	2,373.23	1/2	2,097.11	1/2	1,820.94	1/2	1,544.78	
3/4	3/4	3,746.91	3/4	3,471.61	3/4	3,195.76	3/4	2,919.67	3/4	2,643.57	3/4	2,367.48	3/4	2,091.35	3/4	1,815.19	3/4	1,539.03	
8	8	3,741.18	8	3,465.87	8	3,190.00	8	2,913.91	8	2,637.82	8	2,361.73	8	2,085.60	8	1,809.44	8	1,533.27	
1/4	1/4	3,735.44	1/4	3,460.14	1/4	3,184.25	1/4	2,908.16	1/4	2,632.07	1/4	2,355.98	1/4	2,079.85	1/4	1,803.68	1/4	1,527.52	
1/2	1/2	3,729.71	1/2	3,454.40	1/2	3,178.50	1/2	2,902.41	1/2	2,626.32	1/2	2,350.23	1/2	2,074.09	1/2	1,797.93	1/2	1,521.77	
3/4	3/4	3,723.97	3/4	3,448.67	3/4	3,172.75	3/4	2,896.66	3/4	2,620.57	3/4	2,344.48	3/4	2,068.34	3/4	1,792.18	3/4	1,516.01	
9	9	3,718.23	9	3,442.93	9	3,167.00	9	2,890.91	9	2,614.81	9	2,338.72	9	2,062.59	9	1,786.42	9	1,510.26	
1/4	1/4	3,712.50	1/4	3,437.19	1/4	3,161.24	1/4	2,885.15	1/4	2,609.06	1/4	2,332.97	1/4	2,056.83	1/4	1,780.67	1/4	1,504.51	
1/2	1/2	3,706.76	1/2	3,431.46	1/2	3,155.49	1/2	2,879.40	1/2	2,603.31	1/2	2,327.22	1/2	2,051.08	1/2	1,774.92	1/2	1,498.75	
3/4	3/4	3,701.03	3/4	3,425.72	3/4	3,149.74	3/4	2,873.65	3/4	2,597.56	3/4	2,321.47	3/4	2,045.33	3/4	1,769.16	3/4	1,493.00	
10	10	3,695.29	10	3,419.99	10	3,143.99	10	2,867.90	10	2,591.81	10	2,315.72	10	2,039.57	10	1,763.41	10	1,487.25	
1/4	1/4	3,689.56	1/4	3,414.25	1/4	3,138.24	1/4	2,862.15	1/4	2,586.05	1/4	2,309.96	1/4	2,033.82	1/4	1,757.66	1/4	1,481.49	
1/2	1/2	3,683.82	1/2	3,408.52	1/2	3,132.49	1/2	2,856.39	1/2	2,580.30	1/2	2,304.21	1/2	2,028.07	1/2	1,751.90	1/2	1,475.74	
3/4	3/4	3,678.09	3/4	3,402.78	3/4	3,126.73	3/4	2,850.64	3/4	2,574.55	3/4	2,298.46	3/4	2,022.31	3/4	1,746.15	3/4	1,469.99	
11	11	3,672.35	11	3,397.05	11	3,120.98	11	2,844.89	11	2,568.80	11	2,292.71	11	2,016.56	11	1,740.40	11	1,464.23	
1/4	1/4	3,666.61	1/4	3,391.30	1/4	3,115.23	1/4	2,839.14	1/4	2,563.05	1/4	2,286.96	1/4	2,010.81	1/4	1,734.64	1/4	1,458.48	
1/2	1/2	3,660.88	1/2	3,385.56	1/2	3,109.48	1/2	2,833.39	1/2	2,557.30	1/2	2,281.20	1/2	2,005.05	1/2	1,728.89	1/2	1,452.73	
3/4	3/4	3,655.14	3/4	3,379.81	3/4	3,103.73	3/4	2,827.63	3/4	2,551.54	3/4	2,275.45	3/4	1,999.30	3/4	1,723.14	3/4	1,446.97	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD

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



BARGE "MM 118"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,435.47	1/4	1,159.30	1/4	884.18	1/4	619.66	1/4	343.50	1/4	69.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,429.71	1/2	1,153.55	1/2	878.69	1/2	613.90	1/2	337.75	1/2	63.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,423.96	3/4	1,147.80	3/4	873.19	3/4	608.15	3/4	332.00	3/4	58.21	3/4		3/4		3/4		3/4		3/4	
1	1,418.21	1	1,142.04	1	867.70	1	602.40	1	326.24	1	52.48	1		1		1		1		1	
1/4	1,412.45	1/4	1,136.29	1/4	862.21	1/4	596.64	1/4	320.50	1/4	47.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,406.70	1/2	1,130.54	1/2	856.72	1/2	590.89	1/2	314.76	1/2	42.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,400.94	3/4	1,124.78	3/4	851.24	3/4	585.14	3/4	309.01	3/4	36.86	3/4		3/4		3/4		3/4		3/4	
2	1,395.19	2	1,119.03	2	845.75	2	579.38	2	303.27	2	31.65	2		2		2		2		2	
1/4	1,389.44	1/4	1,113.27	1/4	840.26	1/4	573.63	1/4	297.53	1/4	27.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,383.68	1/2	1,107.52	1/2	834.77	1/2	567.88	1/2	291.79	1/2	23.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,377.93	3/4	1,101.77	3/4	829.28	3/4	562.13	3/4	286.05	3/4	19.78	3/4		3/4		3/4		3/4		3/4	
3	1,372.18	3	1,096.01	3	823.80	3	556.37	3	280.31	3	15.83	3		3		3		3		3	
1/4	1,366.42	1/4	1,090.26	1/4	818.31	1/4	550.62	1/4	274.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,360.67	1/2	1,084.51	1/2	812.82	1/2	544.87	1/2	268.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,354.92	3/4	1,078.75	3/4	807.33	3/4	539.11	3/4	263.06	3/4		3/4		3/4		3/4		3/4		3/4	
4	1,349.16	4	1,073.00	4	801.85	4	533.36	4	257.31	4		4		4		4		4		4	
1/4	1,343.41	1/4	1,067.25	1/4	796.36	1/4	527.61	1/4	251.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,337.66	1/2	1,061.49	1/2	790.87	1/2	521.85	1/2	245.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,331.90	3/4	1,055.74	3/4	785.38	3/4	516.10	3/4	240.05	3/4		3/4		3/4		3/4		3/4		3/4	
5	1,326.15	5	1,049.99	5	779.90	5	510.35	5	234.30	5		5		5		5		5		5	
1/4	1,320.40	1/4	1,044.23	1/4	774.41	1/4	504.59	1/4	228.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,314.64	1/2	1,038.48	1/2	768.92	1/2	498.84	1/2	222.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,308.89	3/4	1,032.73	3/4	763.44	3/4	493.09	3/4	217.04	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,303.14	6	1,026.97	6	757.95	6	487.33	6	211.29	6		6		6		6		6		6	
1/4	1,297.38	1/4	1,021.22	1/4	752.46	1/4	481.58	1/4	205.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,291.63	1/2	1,015.47	1/2	746.97	1/2	475.83	1/2	199.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,285.88	3/4	1,009.71	3/4	741.49	3/4	470.07	3/4	194.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,280.12	7	1,003.96	7	736.00	7	464.32	7	188.27	7		7		7		7		7		7	
1/4	1,274.37	1/4	998.21	1/4	730.51	1/4	458.57	1/4	182.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,268.62	1/2	992.45	1/2	725.02	1/2	452.81	1/2	177.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,262.86	3/4	986.70	3/4	719.54	3/4	447.06	3/4	171.62	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,257.11	8	980.95	8	714.05	8	441.31	8	166.07	8		8		8		8		8		8	
1/4	1,251.36	1/4	975.19	1/4	708.56	1/4	435.55	1/4	160.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,245.60	1/2	969.44	1/2	703.07	1/2	429.80	1/2	155.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,239.85	3/4	963.69	3/4	697.59	3/4	424.05	3/4	149.62	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,234.10	9	957.93	9	692.10	9	418.30	9	144.14	9		9		9		9		9		9	
1/4	1,228.34	1/4	952.18	1/4	686.61	1/4	412.54	1/4	138.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,222.59	1/2	946.43	1/2	681.12	1/2	406.79	1/2	132.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,216.84	3/4	940.67	3/4	675.62	3/4	401.04	3/4	127.08	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,211.08	10	934.92	10	670.13	10	395.28	10	121.40	10		10		10		10		10		10	
1/4	1,205.33	1/4	929.17	1/4	664.64	1/4	389.53	1/4	115.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,199.58	1/2	923.41	1/2	659.15	1/2	383.78	1/2	109.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,193.82	3/4	917.66	3/4	653.66	3/4	378.02	3/4	104.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,188.07	11	911.91	11	648.16	11	372.27	11	98.38	11		11		11		11		11		11	
1/4	1,182.32	1/4	906.35	1/4	642.47	1/4	366.52	1/4	92.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,176.56	1/2	900.79	1/2	636.79	1/2	360.76	1/2	86.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,170.81	3/4	895.23	3/4	631.10	3/4	355.01	3/4	81.14	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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BARGE "MM 118"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	3,918.83	0	3,650.60	0	3,375.16	0	3,099.03	0	2,822.90	0	2,546.77	0	2,270.64	0	1,994.44	0	1,718.23	
1/4	1/4	3,914.86	1/4	3,644.87	1/4	3,369.41	1/4	3,093.28	1/4	2,817.15	1/4	2,541.02	1/4	2,264.89	1/4	1,988.69	1/4	1,712.48	
1/2	1/2	3,910.89	1/2	3,639.13	1/2	3,363.65	1/2	3,087.52	1/2	2,811.40	1/2	2,535.27	1/2	2,259.14	1/2	1,982.93	1/2	1,706.73	
3/4	3/4	3,905.89	3/4	3,633.39	3/4	3,357.90	3/4	3,081.77	3/4	2,805.64	3/4	2,529.51	3/4	2,253.37	3/4	1,977.18	3/4	1,700.97	
1	1	3,900.90	1	3,627.66	1	3,352.15	1	3,076.02	1	2,799.89	1	2,523.76	1	2,247.63	1	1,971.42	1	1,695.22	
1/4	1/4	3,895.90	1/4	3,621.92	1/4	3,346.40	1/4	3,070.27	1/4	2,794.14	1/4	2,518.01	1/4	2,241.88	1/4	1,965.67	1/4	1,689.46	
1/2	1/2	3,890.91	1/2	3,616.18	1/2	3,340.64	1/2	3,064.51	1/2	2,788.38	1/2	2,512.25	1/2	2,236.13	1/2	1,959.91	1/2	1,683.71	
3/4	3/4	3,885.31	3/4	3,610.45	3/4	3,334.89	3/4	3,058.76	3/4	2,782.63	3/4	2,506.50	3/4	2,230.37	3/4	1,954.16	3/4	1,677.95	
2	2	3,879.72	2	3,604.71	2	3,329.14	2	3,053.01	2	2,776.88	2	2,500.75	2	2,224.61	2	1,948.41	2	1,672.20	
1/4	1/4	3,874.12	1/4	3,598.97	1/4	3,323.39	1/4	3,047.26	1/4	2,771.13	1/4	2,495.00	1/4	2,218.86	1/4	1,942.65	1/4	1,666.45	
1/2	1/2	3,868.53	1/2	3,593.24	1/2	3,317.63	1/2	3,041.50	1/2	2,765.37	1/2	2,489.24	1/2	2,213.10	1/2	1,936.90	1/2	1,660.69	
3/4	3/4	3,862.80	3/4	3,587.50	3/4	3,311.88	3/4	3,035.75	3/4	2,759.62	3/4	2,483.49	3/4	2,207.35	3/4	1,931.14	3/4	1,654.94	
3	3	3,857.08	3	3,581.76	3	3,306.13	3	3,030.00	3	2,753.87	3	2,477.74	3	2,201.60	3	1,925.39	3	1,649.18	
1/4	1/4	3,851.36	1/4	3,576.03	1/4	3,300.37	1/4	3,024.25	1/4	2,748.12	1/4	2,471.99	1/4	2,195.84	1/4	1,919.63	1/4	1,643.43	
1/2	1/2	3,845.63	1/2	3,570.29	1/2	3,294.62	1/2	3,018.49	1/2	2,742.36	1/2	2,466.23	1/2	2,190.09	1/2	1,913.88	1/2	1,637.67	
3/4	3/4	3,839.90	3/4	3,564.56	3/4	3,288.87	3/4	3,012.74	3/4	2,736.61	3/4	2,460.48	3/4	2,184.33	3/4	1,908.13	3/4	1,631.92	
4	4	3,834.16	4	3,558.82	4	3,283.12	4	3,006.99	4	2,730.86	4	2,454.73	4	2,178.58	4	1,902.37	4	1,626.16	
1/4	1/4	3,828.43	1/4	3,553.08	1/4	3,277.36	1/4	3,001.23	1/4	2,725.10	1/4	2,448.98	1/4	2,172.82	1/4	1,896.62	1/4	1,620.41	
1/2	1/2	3,822.70	1/2	3,547.35	1/2	3,271.61	1/2	2,995.48	1/2	2,719.35	1/2	2,443.22	1/2	2,167.07	1/2	1,890.86	1/2	1,614.66	
3/4	3/4	3,816.96	3/4	3,541.61	3/4	3,265.86	3/4	2,989.73	3/4	2,713.60	3/4	2,437.47	3/4	2,161.31	3/4	1,885.11	3/4	1,608.90	
5	5	3,811.22	5	3,535.87	5	3,260.11	5	2,983.98	5	2,707.85	5	2,431.72	5	2,155.56	5	1,879.35	5	1,603.15	
1/4	1/4	3,805.49	1/4	3,530.14	1/4	3,254.35	1/4	2,978.22	1/4	2,702.09	1/4	2,425.96	1/4	2,149.81	1/4	1,873.60	1/4	1,597.39	
1/2	1/2	3,799.75	1/2	3,524.40	1/2	3,248.60	1/2	2,972.47	1/2	2,696.34	1/2	2,420.21	1/2	2,144.05	1/2	1,867.85	1/2	1,591.64	
3/4	3/4	3,794.02	3/4	3,518.66	3/4	3,242.85	3/4	2,966.72	3/4	2,690.59	3/4	2,414.46	3/4	2,138.30	3/4	1,862.09	3/4	1,585.88	
6	6	3,788.28	6	3,512.93	6	3,237.10	6	2,960.97	6	2,684.84	6	2,408.71	6	2,132.54	6	1,856.34	6	1,580.13	
1/4	1/4	3,782.54	1/4	3,507.19	1/4	3,231.34	1/4	2,955.21	1/4	2,679.08	1/4	2,402.95	1/4	2,126.79	1/4	1,850.58	1/4	1,574.38	
1/2	1/2	3,776.81	1/2	3,501.45	1/2	3,225.59	1/2	2,949.46	1/2	2,673.33	1/2	2,397.20	1/2	2,121.03	1/2	1,844.83	1/2	1,568.62	
3/4	3/4	3,771.07	3/4	3,495.72	3/4	3,219.84	3/4	2,943.71	3/4	2,667.58	3/4	2,391.45	3/4	2,115.28	3/4	1,839.07	3/4	1,562.87	
7	7	3,765.33	7	3,489.98	7	3,214.08	7	2,937.95	7	2,661.83	7	2,385.70	7	2,109.53	7	1,833.32	7	1,557.11	
1/4	1/4	3,759.60	1/4	3,484.24	1/4	3,208.33	1/4	2,932.20	1/4	2,656.07	1/4	2,379.94	1/4	2,103.77	1/4	1,827.57	1/4	1,551.36	
1/2	1/2	3,753.86	1/2	3,478.51	1/2	3,202.58	1/2	2,926.45	1/2	2,650.32	1/2	2,374.19	1/2	2,098.02	1/2	1,821.81	1/2	1,545.60	
3/4	3/4	3,748.12	3/4	3,472.77	3/4	3,196.83	3/4	2,920.70	3/4	2,644.57	3/4	2,368.44	3/4	2,092.26	3/4	1,816.06	3/4	1,539.85	
8	8	3,742.39	8	3,467.03	8	3,191.07	8	2,914.94	8	2,638.81	8	2,362.68	8	2,086.51	8	1,810.30	8	1,534.10	
1/4	1/4	3,736.65	1/4	3,461.30	1/4	3,185.32	1/4	2,909.19	1/4	2,633.06	1/4	2,356.93	1/4	2,080.75	1/4	1,804.55	1/4	1,528.34	
1/2	1/2	3,730.91	1/2	3,455.56	1/2	3,179.57	1/2	2,903.44	1/2	2,627.31	1/2	2,351.18	1/2	2,075.00	1/2	1,798.79	1/2	1,522.59	
3/4	3/4	3,725.18	3/4	3,449.83	3/4	3,173.82	3/4	2,897.69	3/4	2,621.56	3/4	2,345.43	3/4	2,069.25	3/4	1,793.04	3/4	1,516.83	
9	9	3,719.44	9	3,444.09	9	3,168.06	9	2,891.93	9	2,615.80	9	2,339.67	9	2,063.49	9	1,787.29	9	1,511.08	
1/4	1/4	3,713.70	1/4	3,438.35	1/4	3,162.31	1/4	2,886.18	1/4	2,610.05	1/4	2,333.92	1/4	2,057.74	1/4	1,781.53	1/4	1,505.32	
1/2	1/2	3,707.97	1/2	3,432.62	1/2	3,156.56	1/2	2,880.43	1/2	2,604.30	1/2	2,328.17	1/2	2,051.98	1/2	1,775.78	1/2	1,499.57	
3/4	3/4	3,702.23	3/4	3,426.88	3/4	3,150.80	3/4	2,874.67	3/4	2,598.55	3/4	2,322.42	3/4	2,046.23	3/4	1,770.02	3/4	1,493.82	
10	10	3,696.49	10	3,421.14	10	3,145.05	10	2,868.92	10	2,592.79	10	2,316.66	10	2,040.47	10	1,764.27	10	1,488.06	
1/4	1/4	3,690.76	1/4	3,415.41	1/4	3,139.30	1/4	2,863.17	1/4	2,587.04	1/4	2,310.91	1/4	2,034.72	1/4	1,758.51	1/4	1,482.31	
1/2	1/2	3,685.02	1/2	3,409.67	1/2	3,133.55	1/2	2,857.42	1/2	2,581.29	1/2	2,305.16	1/2	2,028.97	1/2	1,752.76	1/2	1,476.55	
3/4	3/4	3,679.29	3/4	3,403.92	3/4	3,127.79	3/4	2,851.66	3/4	2,575.53	3/4	2,299.40	3/4	2,023.21	3/4	1,747.01	3/4	1,470.80	
11	11	3,673.55	11	3,398.17	11	3,122.04	11	2,845.91	11	2,569.78	11	2,293.65	11	2,017.46	11	1,741.25	11	1,465.04	
1/4	1/4	3,667.81	1/4	3,392.42	1/4	3,116.29	1/4	2,840.16	1/4	2,564.03	1/4	2,287.90	1/4	2,011.70	1/4	1,735.50	1/4	1,459.29	
1/2	1/2	3,926.77	1/2	3,662.08	1/2	3,386.67	1/2	3,110.54	1/2	2,834.41	1/2	2,558.28	1/2	2,282.15	1/2	1,729.74	1/2	1,453.54	
3/4	3/4	3,922.80	3/4	3,656.34	3/4	3,380.91	3/4	3,104.78	3/4	2,828.65	3/4	2,552.52	3/4	2,276.39	3/4	1,723.99	3/4	1,447.78	

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 AT GAUGE POINT

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "MM 118"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,442.03	0	1,165.82	0	889.67	0	614.00	0	337.80	0	63.95	0		0		0		0	
1/4	1,436.27	1/4	1,160.07	1/4	883.92	1/4	608.25	1/4	332.05	1/4	58.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,430.52	1/2	1,154.31	1/2	878.18	1/2	602.49	1/2	326.30	1/2	52.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,424.76	3/4	1,148.56	3/4	872.44	3/4	596.74	3/4	320.55	3/4	47.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,419.01	1	1,142.80	1	866.70	1	590.98	1	314.81	1	42.07	1	1	1	1	1	1	1	1
1/4	1,413.26	1/4	1,137.05	1/4	860.96	1/4	585.23	1/4	309.06	1/4	36.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,407.50	1/2	1,131.30	1/2	855.22	1/2	579.48	1/2	303.32	1/2	31.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,401.75	3/4	1,125.54	3/4	849.48	3/4	573.72	3/4	297.58	3/4	27.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,395.99	2	1,119.79	2	843.74	2	567.97	2	291.84	2	23.74	2	2	2	2	2	2	2	2
1/4	1,390.24	1/4	1,114.03	1/4	838.00	1/4	562.21	1/4	286.10	1/4	19.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,384.48	1/2	1,108.28	1/2	832.27	1/2	556.46	1/2	280.36	1/2	15.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,378.73	3/4	1,102.52	3/4	826.53	3/4	550.71	3/4	274.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,372.98	3	1,096.77	3	820.79	3	544.95	3	268.86	3		3	3	3	3	3	3	3	3
1/4	1,367.22	1/4	1,091.02	1/4	815.05	1/4	539.20	1/4	263.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,361.47	1/2	1,085.26	1/2	809.31	1/2	533.44	1/2	257.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,355.71	3/4	1,079.51	3/4	803.57	3/4	527.69	3/4	251.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,349.96	4	1,073.75	4	797.83	4	521.93	4	245.85	4		4	4	4	4	4	4	4	4
1/4	1,344.20	1/4	1,068.00	1/4	792.10	1/4	516.18	1/4	240.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,338.45	1/2	1,062.24	1/2	786.36	1/2	510.43	1/2	234.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,332.70	3/4	1,056.49	3/4	780.62	3/4	504.67	3/4	228.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,326.94	5	1,050.73	5	774.88	5	498.92	5	222.83	5		5	5	5	5	5	5	5	5
1/4	1,321.19	1/4	1,044.98	1/4	769.14	1/4	493.16	1/4	217.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,315.43	1/2	1,039.23	1/2	763.40	1/2	487.41	1/2	211.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,309.68	3/4	1,033.47	3/4	757.67	3/4	481.66	3/4	205.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,303.92	6	1,027.72	6	751.93	6	475.90	6	199.81	6		6	6	6	6	6	6	6	6
1/4	1,298.17	1/4	1,021.96	1/4	746.19	1/4	470.15	1/4	194.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,292.42	1/2	1,016.21	1/2	740.45	1/2	464.39	1/2	188.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,286.66	3/4	1,010.45	3/4	734.71	3/4	458.64	3/4	182.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,280.91	7	1,004.70	7	728.97	7	452.89	7	177.20	7		7	7	7	7	7	7	7	7
1/4	1,275.15	1/4	998.95	1/4	723.23	1/4	447.13	1/4	171.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,269.40	1/2	993.19	1/2	717.50	1/2	441.38	1/2	166.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,263.64	3/4	987.44	3/4	711.76	3/4	435.62	3/4	160.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,257.89	8	981.68	8	706.02	8	429.87	8	155.13	8		8	8	8	8	8	8	8	8
1/4	1,252.14	1/4	975.93	1/4	700.28	1/4	424.11	1/4	149.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,246.38	1/2	970.17	1/2	694.54	1/2	418.36	1/2	144.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,240.63	3/4	964.42	3/4	688.79	3/4	412.61	3/4	138.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,234.87	9	958.67	9	683.04	9	406.85	9	132.79	9		9	9	9	9	9	9	9	9
1/4	1,229.12	1/4	952.91	1/4	677.29	1/4	401.10	1/4	127.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,223.36	1/2	947.16	1/2	671.54	1/2	395.34	1/2	121.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,217.61	3/4	941.40	3/4	665.79	3/4	389.59	3/4	115.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,211.86	10	935.65	10	660.03	10	383.84	10	109.91	10		10	10	10	10	10	10	10	10
1/4	1,206.10	1/4	929.89	1/4	654.28	1/4	378.08	1/4	104.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,200.35	1/2	924.14	1/2	648.52	1/2	372.33	1/2	98.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,194.59	3/4	918.39	3/4	642.77	3/4	366.57	3/4	92.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,188.84	11	912.65	11	637.02	11	360.82	11	86.90	11		11	11	11	11	11	11	11	11
1/4	1,183.08	1/4	906.90	1/4	631.26	1/4	355.07	1/4	81.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,177.33	1/2	901.15	1/2	625.51	1/2	349.31	1/2	75.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,171.58	3/4	895.41	3/4	619.75	3/4	343.56	3/4	69.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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BARGE "MM 118"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,273.89	0	3,146.10	0	3,009.62	0	2,872.81	0	2,736.01	0	2,498.13	0	2,227.04	0	1,955.93	0	1,686.28	
1/4	1/4	3,272.76	1/4	3,143.25	1/4	3,006.77	1/4	2,869.96	1/4	2,733.16	1/4	2,492.48	1/4	2,221.39	1/4	1,950.28	1/4	1,680.62	
1/2	1/2	3,271.63	1/2	3,140.41	1/2	3,003.92	1/2	2,867.11	1/2	2,730.31	1/2	2,486.83	1/2	2,215.75	1/2	1,944.63	1/2	1,674.97	
3/4	3/4	3,270.50	3/4	3,137.57	3/4	3,001.07	3/4	2,864.26	3/4	2,727.46	3/4	2,481.18	3/4	2,210.10	3/4	1,938.98	3/4	1,669.31	
1	1	3,268.38	1	3,134.72	1	2,998.22	1	2,861.41	1	2,724.61	1	2,475.54	1	2,204.45	1	1,933.33	1	1,663.66	
1/4	1/4	3,266.26	1/4	3,131.88	1/4	2,995.37	1/4	2,858.56	1/4	2,721.76	1/4	2,469.89	1/4	2,198.80	1/4	1,927.69	1/4	1,658.00	
1/2	1/2	3,264.15	1/2	3,129.04	1/2	2,992.52	1/2	2,855.71	1/2	2,718.91	1/2	2,464.24	1/2	2,193.16	1/2	1,922.04	1/2	1,652.34	
3/4	3/4	3,262.03	3/4	3,126.20	3/4	2,989.67	3/4	2,852.86	3/4	2,716.06	3/4	2,458.59	3/4	2,187.51	3/4	1,916.39	3/4	1,646.68	
2	2	3,259.33	2	3,123.35	2	2,986.82	2	2,850.01	2	2,713.24	2	2,452.95	2	2,181.86	2	1,910.74	2	1,641.02	
1/4	1/4	3,256.62	1/4	3,120.51	1/4	2,983.97	1/4	2,847.16	1/4	2,710.42	1/4	2,447.30	1/4	2,176.21	1/4	1,905.09	1/4	1,635.36	
1/2	1/2	3,253.92	1/2	3,117.67	1/2	2,981.12	1/2	2,844.31	1/2	2,707.61	1/2	2,441.65	1/2	2,170.57	1/2	1,899.44	1/2	1,629.70	
3/4	3/4	3,251.22	3/4	3,114.83	3/4	2,978.27	3/4	2,841.46	3/4	2,704.79	3/4	2,436.00	3/4	2,164.92	3/4	1,893.80	3/4	1,624.04	
3	3	3,248.39	3	3,111.98	3	2,975.42	3	2,838.61	3	2,699.83	3	2,430.36	3	2,159.27	3	1,888.15	3	1,618.38	
1/4	1/4	3,245.56	1/4	3,109.14	1/4	2,972.57	1/4	2,835.76	1/4	2,694.87	1/4	2,424.71	1/4	2,153.62	1/4	1,882.50	1/4	1,612.72	
1/2	1/2	3,242.73	1/2	3,106.30	1/2	2,969.72	1/2	2,832.91	1/2	2,689.92	1/2	2,419.06	1/2	2,147.97	1/2	1,876.85	1/2	1,607.06	
3/4	3/4	3,239.90	3/4	3,103.45	3/4	2,966.87	3/4	2,830.06	3/4	2,684.96	3/4	2,413.41	3/4	2,142.33	3/4	1,871.20	3/4	1,601.40	
4	4	3,237.06	4	3,100.61	4	2,964.02	4	2,827.21	4	2,679.29	4	2,407.77	4	2,136.68	4	1,865.63	4	1,595.73	
1/4	1/4	3,234.22	1/4	3,097.77	1/4	2,961.17	1/4	2,824.36	1/4	2,673.61	1/4	2,402.12	1/4	2,131.03	1/4	1,860.05	1/4	1,590.07	
1/2	1/2	3,231.38	1/2	3,094.93	1/2	2,958.32	1/2	2,821.51	1/2	2,667.94	1/2	2,396.47	1/2	2,125.38	1/2	1,854.48	1/2	1,584.41	
3/4	3/4	3,228.54	3/4	3,092.08	3/4	2,955.47	3/4	2,818.66	3/4	2,662.26	3/4	2,390.82	3/4	2,119.73	3/4	1,848.90	3/4	1,578.75	
5	5	3,225.69	5	3,089.24	5	2,952.62	5	2,815.81	5	2,656.59	5	2,385.18	5	2,114.08	5	1,843.36	5	1,573.09	
1/4	1/4	3,222.85	1/4	3,086.40	1/4	2,949.77	1/4	2,812.96	1/4	2,650.92	1/4	2,379.53	1/4	2,108.43	1/4	1,837.81	1/4	1,567.43	
1/2	1/2	3,220.01	1/2	3,083.55	1/2	2,946.92	1/2	2,810.11	1/2	2,645.25	1/2	2,373.88	1/2	2,102.79	1/2	1,832.27	1/2	1,561.77	
3/4	3/4	3,217.17	3/4	3,080.71	3/4	2,944.07	3/4	2,807.26	3/4	2,639.58	3/4	2,368.23	3/4	2,097.14	3/4	1,826.72	3/4	1,556.11	
6	6	3,214.32	6	3,077.87	6	2,941.22	6	2,804.41	6	2,633.91	6	2,362.58	6	2,091.49	6	1,821.17	6	1,550.45	
1/4	1/4	3,211.48	1/4	3,075.03	1/4	2,938.37	1/4	2,801.56	1/4	2,628.24	1/4	2,356.94	1/4	2,085.84	1/4	1,815.62	1/4	1,544.79	
1/2	1/2	3,208.64	1/2	3,072.18	1/2	2,935.52	1/2	2,798.71	1/2	2,622.58	1/2	2,351.29	1/2	2,080.19	1/2	1,810.07	1/2	1,539.13	
3/4	3/4	3,205.79	3/4	3,069.34	3/4	2,932.67	3/4	2,795.86	3/4	2,616.91	3/4	2,345.64	3/4	2,074.54	3/4	1,804.51	3/4	1,533.47	
7	7	3,202.95	7	3,066.50	7	2,929.82	7	2,793.01	7	2,611.24	7	2,339.99	7	2,068.90	7	1,798.96	7	1,527.82	
1/4	1/4	3,200.11	1/4	3,063.65	1/4	2,926.97	1/4	2,790.16	1/4	2,605.57	1/4	2,334.35	1/4	2,063.25	1/4	1,793.41	1/4	1,522.17	
1/2	1/2	3,197.27	1/2	3,060.81	1/2	2,924.12	1/2	2,787.31	1/2	2,599.90	1/2	2,328.70	1/2	2,057.60	1/2	1,787.85	1/2	1,516.52	
3/4	3/4	3,194.42	3/4	3,057.97	3/4	2,921.26	3/4	2,784.46	3/4	2,594.23	3/4	2,323.05	3/4	2,051.95	3/4	1,782.30	3/4	1,510.87	
8	8	3,191.58	8	3,055.13	8	2,918.41	8	2,781.61	8	2,588.57	8	2,317.40	8	2,046.30	8	1,776.67	8	1,505.22	
1/4	1/4	3,188.74	1/4	3,052.28	1/4	2,915.56	1/4	2,778.76	1/4	2,582.91	1/4	2,311.76	1/4	2,040.65	1/4	1,771.04	1/4	1,499.57	
1/2	1/2	3,185.90	1/2	3,049.44	1/2	2,912.71	1/2	2,775.91	1/2	2,577.25	1/2	2,306.11	1/2	2,035.01	1/2	1,765.41	1/2	1,493.93	
3/4	3/4	3,183.05	3/4	3,046.60	3/4	2,909.86	3/4	2,773.06	3/4	2,571.59	3/4	2,300.46	3/4	2,029.36	3/4	1,759.78	3/4	1,488.28	
9	9	3,180.21	9	3,043.76	9	2,907.01	9	2,770.21	9	2,565.94	9	2,294.81	9	2,023.71	9	1,754.13	9	1,482.63	
1/4	1/4	3,177.37	1/4	3,040.91	1/4	2,904.16	1/4	2,767.36	1/4	2,560.28	1/4	2,289.17	1/4	2,018.06	1/4	1,748.47	1/4	1,476.99	
1/2	1/2	3,174.52	1/2	3,038.07	1/2	2,901.31	1/2	2,764.51	1/2	2,554.62	1/2	2,283.52	1/2	2,012.41	1/2	1,742.82	1/2	1,471.34	
3/4	3/4	3,171.68	3/4	3,035.23	3/4	2,898.46	3/4	2,761.66	3/4	2,548.97	3/4	2,277.87	3/4	2,006.76	3/4	1,737.17	3/4	1,465.69	
10	10	3,168.84	10	3,032.38	10	2,895.61	10	2,758.81	10	2,543.32	10	2,272.22	10	2,001.12	10	1,731.51	10	1,460.05	
1/4	1/4	3,166.00	1/4	3,029.54	1/4	2,892.76	1/4	2,755.96	1/4	2,537.67	1/4	2,266.58	1/4	1,995.47	1/4	1,725.86	1/4	1,454.40	
1/2	1/2	3,163.15	1/2	3,026.70	1/2	2,889.91	1/2	2,753.11	1/2	2,532.02	1/2	2,260.93	1/2	1,989.82	1/2	1,720.20	1/2	1,448.75	
3/4	3/4	3,160.31	3/4	3,023.86	3/4	2,887.06	3/4	2,750.26	3/4	2,526.37	3/4	2,255.28	3/4	1,984.17	3/4	1,714.55	3/4	1,443.11	
11	11	3,157.47	11	3,021.01	11	2,884.21	11	2,747.41	11	2,520.72	11	2,249.63	11	1,978.52	11	1,708.89	11	1,437.46	
1/4	1/4	3,154.62	1/4	3,018.16	1/4	2,881.36	1/4	2,744.56	1/4	2,515.07	1/4	2,243.99	1/4	1,972.87	1/4	1,703.24	1/4	1,431.81	
1/2	1/2	3,151.78	1/2	3,015.32	1/2	2,878.51	1/2	2,741.71	1/2	2,509.42	1/2	2,238.34	1/2	1,967.22	1/2	1,697.59	1/2	1,426.17	
3/4	3/4	3,275.02	3/4	3,148.94	3/4	3,012.47	3/4	2,875.66	3/4	2,738.86	3/4	2,503.77	3/4	2,232.69	3/4	1,961.58	3/4	1,420.52	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

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



BARGE "MM 118"

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,414.87	0	1,143.62	0	872.89	0	612.84	0	340.87	0	69.24	0		0		0		0	
1/4	1,409.23	1/4	1,137.96	1/4	867.44	1/4	607.18	1/4	335.16	1/4	63.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,403.58	1/2	1,132.30	1/2	861.99	1/2	601.52	1/2	329.46	1/2	57.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,397.93	3/4	1,126.65	3/4	856.53	3/4	595.86	3/4	323.75	3/4	52.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,392.29	1	1,120.99	1	851.13	1	590.19	1	318.06	1	46.98	1	1	1	1	1	1	1	1
1/4	1,386.64	1/4	1,115.33	1/4	845.73	1/4	584.53	1/4	312.36	1/4	41.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,380.99	1/2	1,109.68	1/2	840.33	1/2	578.87	1/2	306.67	1/2	36.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,375.35	3/4	1,104.02	3/4	834.92	3/4	573.20	3/4	300.97	3/4	31.46	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,369.70	2	1,098.36	2	829.54	2	567.54	2	295.28	2	27.53	2	2	2	2	2	2	2	2
1/4	1,364.05	1/4	1,092.70	1/4	824.15	1/4	561.88	1/4	289.59	1/4	23.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,358.41	1/2	1,087.05	1/2	818.77	1/2	556.22	1/2	283.90	1/2	19.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,352.76	3/4	1,081.39	3/4	813.38	3/4	550.55	3/4	278.21	3/4	15.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,347.11	3	1,075.73	3	808.00	3	544.89	3	272.51	3		3	3	3	3	3	3	3	3
1/4	1,341.47	1/4	1,070.08	1/4	802.61	1/4	539.23	1/4	266.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,335.82	1/2	1,064.42	1/2	797.23	1/2	533.57	1/2	261.11	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,330.17	3/4	1,058.76	3/4	791.84	3/4	527.90	3/4	255.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,324.53	4	1,053.10	4	786.46	4	522.24	4	249.71	4		4	4	4	4	4	4	4	4
1/4	1,318.88	1/4	1,047.45	1/4	781.07	1/4	516.58	1/4	244.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,313.23	1/2	1,041.79	1/2	775.69	1/2	510.92	1/2	238.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,307.59	3/4	1,036.13	3/4	770.30	3/4	505.25	3/4	232.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,301.94	5	1,030.48	5	764.91	5	499.59	5	226.90	5		5	5	5	5	5	5	5	5
1/4	1,296.29	1/4	1,024.82	1/4	759.53	1/4	493.93	1/4	221.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,290.65	1/2	1,019.16	1/2	754.14	1/2	488.26	1/2	215.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,285.00	3/4	1,013.50	3/4	748.76	3/4	482.60	3/4	209.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,279.35	6	1,007.85	6	743.37	6	476.94	6	204.09	6		6	6	6	6	6	6	6	6
1/4	1,273.71	1/4	1,002.19	1/4	737.99	1/4	471.28	1/4	198.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,268.06	1/2	996.53	1/2	732.60	1/2	465.61	1/2	192.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,262.41	3/4	990.87	3/4	727.22	3/4	459.95	3/4	186.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,256.76	7	985.22	7	721.83	7	454.29	7	181.48	7		7	7	7	7	7	7	7	7
1/4	1,251.10	1/4	979.56	1/4	716.45	1/4	448.63	1/4	175.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,245.45	1/2	973.90	1/2	711.06	1/2	442.96	1/2	170.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,239.79	3/4	968.25	3/4	705.68	3/4	437.30	3/4	164.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,234.13	8	962.59	8	700.29	8	431.64	8	159.53	8		8	8	8	8	8	8	8	8
1/4	1,228.48	1/4	956.93	1/4	694.91	1/4	425.97	1/4	154.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,222.82	1/2	951.27	1/2	689.52	1/2	420.31	1/2	148.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,217.16	3/4	945.62	3/4	684.14	3/4	414.65	3/4	143.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,211.51	9	939.96	9	678.73	9	408.99	9	137.58	9		9	9	9	9	9	9	9	9
1/4	1,205.85	1/4	934.30	1/4	673.33	1/4	403.32	1/4	131.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,200.19	1/2	928.65	1/2	667.93	1/2	397.66	1/2	126.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,194.53	3/4	922.99	3/4	662.53	3/4	392.00	3/4	120.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,188.88	10	917.33	10	657.12	10	386.34	10	114.93	10		10	10	10	10	10	10	10	10
1/4	1,183.22	1/4	911.67	1/4	651.71	1/4	380.67	1/4	109.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,177.56	1/2	906.02	1/2	646.31	1/2	375.01	1/2	103.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,171.91	3/4	900.36	3/4	640.90	3/4	369.35	3/4	97.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,166.25	11	894.86	11	635.30	11	363.65	11	92.07	11		11	11	11	11	11	11	11	11
1/4	1,160.59	1/4	889.35	1/4	629.70	1/4	357.96	1/4	86.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,154.93	1/2	883.85	1/2	624.11	1/2	352.27	1/2	80.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,149.28	3/4	878.34	3/4	618.51	3/4	346.57	3/4	74.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT
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BARGE "MM 118"

4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,311.70	0	3,184.02	0	3,047.66	0	2,910.99	0	2,774.32	0	2,535.29	0	2,260.99	0	1,986.65	0	1,712.32	
1/4	1/4	3,310.57	1/4	3,181.18	1/4	3,044.81	1/4	2,908.14	1/4	2,771.47	1/4	2,529.58	1/4	2,255.27	1/4	1,980.94	1/4	1,706.60	
1/2	1/2	3,309.44	1/2	3,178.34	1/2	3,041.97	1/2	2,905.30	1/2	2,768.63	1/2	2,523.86	1/2	2,249.56	1/2	1,975.22	1/2	1,700.88	
3/4	3/4	3,308.31	3/4	3,175.50	3/4	3,039.12	3/4	2,902.45	3/4	2,765.78	3/4	2,518.15	3/4	2,243.84	3/4	1,969.51	3/4	1,695.17	
1	1	3,306.19	1	3,172.66	1	3,036.27	1	2,899.60	1	2,762.93	1	2,512.43	1	2,238.13	1	1,963.79	1	1,689.45	
1/4	1/4	3,304.08	1/4	3,169.82	1/4	3,033.42	1/4	2,896.75	1/4	2,760.08	1/4	2,506.72	1/4	2,232.41	1/4	1,958.08	1/4	1,683.74	
1/2	1/2	3,301.96	1/2	3,166.98	1/2	3,030.58	1/2	2,893.91	1/2	2,757.24	1/2	2,501.01	1/2	2,226.70	1/2	1,952.36	1/2	1,678.02	
3/4	3/4	3,299.85	3/4	3,164.14	3/4	3,027.73	3/4	2,891.06	3/4	2,754.39	3/4	2,495.29	3/4	2,220.99	3/4	1,946.65	3/4	1,672.31	
2	2	3,297.15	2	3,161.30	2	3,024.88	2	2,888.21	2	2,751.57	2	2,489.58	2	2,215.27	2	1,940.93	2	1,666.59	
1/4	1/4	3,294.45	1/4	3,158.46	1/4	3,022.03	1/4	2,885.36	1/4	2,748.76	1/4	2,483.86	1/4	2,209.55	1/4	1,935.22	1/4	1,660.88	
1/2	1/2	3,291.75	1/2	3,155.62	1/2	3,019.19	1/2	2,882.52	1/2	2,745.94	1/2	2,478.15	1/2	2,203.84	1/2	1,929.50	1/2	1,655.16	
3/4	3/4	3,289.05	3/4	3,152.78	3/4	3,016.34	3/4	2,879.67	3/4	2,743.13	3/4	2,472.43	3/4	2,198.12	3/4	1,923.79	3/4	1,649.45	
3	3	3,286.22	3	3,149.94	3	3,013.49	3	2,876.82	3	2,738.18	3	2,466.72	3	2,192.41	3	1,918.07	3	1,643.73	
1/4	1/4	3,283.39	1/4	3,147.10	1/4	3,010.65	1/4	2,873.98	1/4	2,733.22	1/4	2,461.00	1/4	2,186.69	1/4	1,912.35	1/4	1,638.02	
1/2	1/2	3,280.57	1/2	3,144.26	1/2	3,007.80	1/2	2,871.13	1/2	2,728.27	1/2	2,455.29	1/2	2,180.98	1/2	1,906.64	1/2	1,632.30	
3/4	3/4	3,277.74	3/4	3,141.42	3/4	3,004.95	3/4	2,868.28	3/4	2,723.31	3/4	2,449.57	3/4	2,175.26	3/4	1,900.92	3/4	1,626.58	
4	4	3,274.90	4	3,138.58	4	3,002.10	4	2,865.43	4	2,717.64	4	2,443.86	4	2,169.55	4	1,895.21	4	1,620.87	
1/4	1/4	3,272.06	1/4	3,135.74	1/4	2,999.26	1/4	2,862.59	1/4	2,711.97	1/4	2,438.14	1/4	2,163.83	1/4	1,889.49	1/4	1,615.15	
1/2	1/2	3,269.22	1/2	3,132.90	1/2	2,996.41	1/2	2,859.74	1/2	2,706.30	1/2	2,432.43	1/2	2,158.12	1/2	1,883.78	1/2	1,609.44	
3/4	3/4	3,266.38	3/4	3,130.06	3/4	2,993.56	3/4	2,856.89	3/4	2,700.63	3/4	2,426.71	3/4	2,152.40	3/4	1,878.06	3/4	1,603.72	
5	5	3,263.54	5	3,127.22	5	2,990.71	5	2,854.04	5	2,694.96	5	2,421.00	5	2,146.69	5	1,872.35	5	1,598.01	
1/4	1/4	3,260.70	1/4	3,124.38	1/4	2,987.87	1/4	2,851.20	1/4	2,689.29	1/4	2,415.28	1/4	2,140.97	1/4	1,866.63	1/4	1,592.29	
1/2	1/2	3,257.86	1/2	3,121.54	1/2	2,985.02	1/2	2,848.35	1/2	2,683.61	1/2	2,409.57	1/2	2,135.25	1/2	1,860.92	1/2	1,586.58	
3/4	3/4	3,255.02	3/4	3,118.70	3/4	2,982.17	3/4	2,845.50	3/4	2,677.94	3/4	2,403.86	3/4	2,129.54	3/4	1,855.20	3/4	1,580.86	
6	6	3,252.18	6	3,115.86	6	2,979.33	6	2,842.66	6	2,672.27	6	2,398.14	6	2,123.82	6	1,849.48	6	1,575.15	
1/4	1/4	3,249.34	1/4	3,113.02	1/4	2,976.48	1/4	2,839.81	1/4	2,666.60	1/4	2,392.43	1/4	2,118.11	1/4	1,843.77	1/4	1,569.43	
1/2	1/2	3,246.50	1/2	3,110.18	1/2	2,973.63	1/2	2,836.96	1/2	2,660.93	1/2	2,386.71	1/2	2,112.39	1/2	1,838.05	1/2	1,563.71	
3/4	3/4	3,243.66	3/4	3,107.34	3/4	2,970.78	3/4	2,834.11	3/4	2,655.26	3/4	2,381.00	3/4	2,106.68	3/4	1,832.34	3/4	1,558.00	
7	7	3,240.82	7	3,104.50	7	2,967.94	7	2,831.27	7	2,649.55	7	2,375.28	7	2,100.96	7	1,826.62	7	1,552.28	
1/4	1/4	3,237.98	1/4	3,101.66	1/4	2,965.09	1/4	2,828.42	1/4	2,643.85	1/4	2,369.57	1/4	2,095.25	1/4	1,820.91	1/4	1,546.57	
1/2	1/2	3,235.14	1/2	3,098.82	1/2	2,962.24	1/2	2,825.57	1/2	2,638.15	1/2	2,363.85	1/2	2,089.53	1/2	1,815.19	1/2	1,540.85	
3/4	3/4	3,232.30	3/4	3,095.98	3/4	2,959.39	3/4	2,822.72	3/4	2,632.44	3/4	2,358.14	3/4	2,083.82	3/4	1,809.48	3/4	1,535.14	
8	8	3,229.46	8	3,093.14	8	2,956.55	8	2,819.88	8	2,626.73	8	2,352.42	8	2,078.10	8	1,803.76	8	1,529.42	
1/4	1/4	3,226.62	1/4	3,090.30	1/4	2,953.70	1/4	2,817.03	1/4	2,621.01	1/4	2,346.71	1/4	2,072.39	1/4	1,798.05	1/4	1,523.71	
1/2	1/2	3,223.78	1/2	3,087.46	1/2	2,950.85	1/2	2,814.18	1/2	2,615.30	1/2	2,340.99	1/2	2,066.67	1/2	1,792.33	1/2	1,517.99	
3/4	3/4	3,220.94	3/4	3,084.62	3/4	2,948.01	3/4	2,811.33	3/4	2,609.58	3/4	2,335.28	3/4	2,060.95	3/4	1,786.62	3/4	1,512.28	
9	9	3,218.10	9	3,081.78	9	2,945.16	9	2,808.49	9	2,603.87	9	2,329.56	9	2,055.24	9	1,780.90	9	1,506.56	
1/4	1/4	3,215.26	1/4	3,078.94	1/4	2,942.31	1/4	2,805.64	1/4	2,598.16	1/4	2,323.85	1/4	2,049.52	1/4	1,775.18	1/4	1,500.85	
1/2	1/2	3,212.42	1/2	3,076.10	1/2	2,939.46	1/2	2,802.79	1/2	2,592.44	1/2	2,318.14	1/2	2,043.81	1/2	1,769.47	1/2	1,495.13	
3/4	3/4	3,209.58	3/4	3,073.26	3/4	2,936.62	3/4	2,799.95	3/4	2,586.73	3/4	2,312.42	3/4	2,038.09	3/4	1,763.75	3/4	1,489.41	
10	10	3,206.74	10	3,070.42	10	2,933.77	10	2,797.10	10	2,581.01	10	2,306.71	10	2,032.38	10	1,758.04	10	1,483.70	
1/4	1/4	3,203.90	1/4	3,067.58	1/4	2,930.92	1/4	2,794.25	1/4	2,575.30	1/4	2,300.99	1/4	2,026.66	1/4	1,752.32	1/4	1,477.98	
1/2	1/2	3,201.06	1/2	3,064.74	1/2	2,928.07	1/2	2,791.40	1/2	2,569.58	1/2	2,295.28	1/2	2,020.95	1/2	1,746.61	1/2	1,472.27	
3/4	3/4	3,198.22	3/4	3,061.90	3/4	2,925.23	3/4	2,788.56	3/4	2,563.87	3/4	2,289.56	3/4	2,015.23	3/4	1,740.89	3/4	1,466.55	
11	11	3,195.38	11	3,059.05	11	2,922.38	11	2,785.71	11	2,558.15	11	2,283.85	11	2,009.52	11	1,735.18	11	1,460.84	
1/4	1/4	3,192.54	1/4	3,056.20	1/4	2,919.53	1/4	2,782.86	1/4	2,552.44	1/4	2,278.13	1/4	2,003.80	1/4	1,729.46	1/4	1,455.12	
1/2	1/2	3,189.70	1/2	3,053.35	1/2	2,916.68	1/2	2,780.01	1/2	2,546.72	1/2	2,272.42	1/2	1,998.09	1/2	1,723.75	1/2	1,449.41	
3/4	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	3,312.83	3,186.86	

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 AT GAUGE POINT
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 8" DIAMETER HATCH OR 1" DIAMETER CAP ON "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8" HATCH) LOCATED 10'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD

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



BARGE "MM 118"

4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,437.98	0	1,163.64	0	889.34	0	615.55	0	341.22	0	69.21	0		0		0		0	
1/4	1,432.26	1/4	1,157.92	1/4	883.63	1/4	609.84	1/4	335.51	1/4	63.52	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,426.55	1/2	1,152.21	1/2	877.93	1/2	604.12	1/2	329.79	1/2	57.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,420.83	3/4	1,146.49	3/4	872.22	3/4	598.41	3/4	324.08	3/4	52.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,415.11	1	1,140.78	1	866.52	1	592.69	1	318.37	1	46.96	1	1	1	1	1	1	1	1
1/4	1,409.40	1/4	1,135.06	1/4	860.82	1/4	586.98	1/4	312.67	1/4	41.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,403.68	1/2	1,129.34	1/2	855.12	1/2	581.26	1/2	306.96	1/2	36.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,397.97	3/4	1,123.63	3/4	849.42	3/4	575.55	3/4	301.26	3/4	31.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,392.25	2	1,117.91	2	843.72	2	569.83	2	295.56	2	27.52	2	2	2	2	2	2	2	2
1/4	1,386.54	1/4	1,112.20	1/4	838.02	1/4	564.12	1/4	289.85	1/4	23.59	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,380.82	1/2	1,106.48	1/2	832.32	1/2	558.40	1/2	284.15	1/2	19.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,375.11	3/4	1,100.77	3/4	826.62	3/4	552.69	3/4	278.45	3/4	15.73	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,369.39	3	1,095.05	3	820.92	3	546.97	3	272.74	3		3	3	3	3	3	3	3	3
1/4	1,363.68	1/4	1,089.34	1/4	815.22	1/4	541.26	1/4	267.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,357.96	1/2	1,083.62	1/2	809.52	1/2	535.54	1/2	261.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,352.25	3/4	1,077.91	3/4	803.82	3/4	529.82	3/4	255.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,346.53	4	1,072.19	4	798.12	4	524.11	4	249.89	4		4	4	4	4	4	4	4	4
1/4	1,340.81	1/4	1,066.48	1/4	792.42	1/4	518.39	1/4	244.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,335.10	1/2	1,060.76	1/2	786.72	1/2	512.68	1/2	238.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,329.38	3/4	1,055.04	3/4	781.03	3/4	506.96	3/4	232.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,323.67	5	1,049.33	5	775.33	5	501.25	5	227.03	5		5	5	5	5	5	5	5	5
1/4	1,317.95	1/4	1,043.61	1/4	769.63	1/4	495.53	1/4	221.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,312.24	1/2	1,037.90	1/2	763.93	1/2	489.82	1/2	215.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,306.52	3/4	1,032.18	3/4	758.23	3/4	484.10	3/4	209.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,300.81	6	1,026.47	6	752.53	6	478.39	6	204.17	6		6	6	6	6	6	6	6	6
1/4	1,295.09	1/4	1,020.75	1/4	746.83	1/4	472.67	1/4	198.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,289.38	1/2	1,015.04	1/2	741.13	1/2	466.96	1/2	192.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,283.66	3/4	1,009.32	3/4	735.43	3/4	461.24	3/4	187.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,277.94	7	1,003.61	7	729.73	7	455.53	7	181.51	7		7	7	7	7	7	7	7	7
1/4	1,272.23	1/4	997.89	1/4	724.03	1/4	449.81	1/4	176.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,266.51	1/2	992.17	1/2	718.33	1/2	444.10	1/2	170.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,260.80	3/4	986.46	3/4	712.63	3/4	438.38	3/4	164.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,255.08	8	980.74	8	706.93	8	432.67	8	159.53	8		8	8	8	8	8	8	8	8
1/4	1,249.37	1/4	975.03	1/4	701.23	1/4	426.95	1/4	154.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,243.65	1/2	969.31	1/2	695.53	1/2	421.24	1/2	148.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,237.94	3/4	963.60	3/4	689.83	3/4	415.52	3/4	143.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,232.22	9	957.88	9	684.12	9	409.81	9	137.54	9		9	9	9	9	9	9	9	9
1/4	1,226.51	1/4	952.17	1/4	678.41	1/4	404.09	1/4	131.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,220.79	1/2	946.45	1/2	672.70	1/2	398.38	1/2	126.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,215.08	3/4	940.74	3/4	666.99	3/4	392.66	3/4	120.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,209.36	10	935.02	10	661.27	10	386.94	10	114.88	10		10	10	10	10	10	10	10	10
1/4	1,203.64	1/4	929.31	1/4	655.56	1/4	381.23	1/4	109.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,197.93	1/2	923.59	1/2	649.84	1/2	375.51	1/2	103.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,192.21	3/4	917.87	3/4	644.13	3/4	369.80	3/4	97.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,186.50	11	912.17	11	638.41	11	364.08	11	92.03	11		11	11	11	11	11	11	11	11
1/4	1,180.78	1/4	906.46	1/4	632.70	1/4	358.37	1/4	86.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,175.07	1/2	900.75	1/2	626.98	1/2	352.65	1/2	80.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,169.35	3/4	895.04	3/4	621.27	3/4	346.94	3/4	74.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2018 CL
CALCULATED: 08/17/2018 CL
PRINTED: 08/18/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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