



BARGE "MM 138"

ULLAGE (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	00-1/8	- 00-1/8	00-1/8	- 00-1/8
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	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 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
2 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
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 7'-00"
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

May 11, 2016

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

<http://www.pmacorp.net>



BARGE "MM 138"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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	5,182.76	0	4,853.48	0	4,487.14	0	4,120.81	0	3,754.47	0	3,388.13	0	3,021.80	0	2,655.46	0	2,289.13
1/4		1/4	5,179.38	1/4	4,845.85	1/4	4,479.51	1/4	4,113.18	1/4	3,746.84	1/4	3,380.50	1/4	3,014.17	1/4	2,647.82	1/4	2,281.49
1/2		1/2	5,175.99	1/2	4,838.21	1/2	4,471.87	1/2	4,105.54	1/2	3,739.20	1/2	3,372.87	1/2	3,006.53	1/2	2,640.19	1/2	2,273.86
3/4		3/4	5,172.60	3/4	4,830.58	3/4	4,464.24	3/4	4,097.91	3/4	3,731.57	3/4	3,365.24	3/4	2,998.90	3/4	2,632.56	3/4	2,266.23
1		1	5,168.08	1	4,822.95	1	4,456.61	1	4,090.28	1	3,723.94	1	3,357.61	1	2,991.27	1	2,624.93	1	2,258.60
1/4		1/4	5,163.56	1/4	4,815.32	1/4	4,448.98	1/4	4,082.65	1/4	3,716.31	1/4	3,349.98	1/4	2,983.64	1/4	2,617.30	1/4	2,250.96
1/2		1/2	5,159.03	1/2	4,807.68	1/2	4,441.35	1/2	4,075.01	1/2	3,708.67	1/2	3,342.34	1/2	2,976.00	1/2	2,609.67	1/2	2,243.33
3/4		3/4	5,154.51	3/4	4,800.05	3/4	4,433.72	3/4	4,067.38	3/4	3,701.04	3/4	3,334.71	3/4	2,968.37	3/4	2,602.04	3/4	2,235.70
2		2	5,148.86	2	4,792.42	2	4,426.09	2	4,059.75	2	3,693.41	2	3,327.08	2	2,960.74	2	2,594.41	2	2,228.07
1/4		1/4	5,143.21	1/4	4,784.79	1/4	4,418.46	1/4	4,052.12	1/4	3,685.78	1/4	3,319.45	1/4	2,953.11	1/4	2,586.77	1/4	2,220.43
1/2		1/2	5,137.55	1/2	4,777.15	1/2	4,410.82	1/2	4,044.48	1/2	3,678.15	1/2	3,311.81	1/2	2,945.47	1/2	2,579.14	1/2	2,212.80
3/4		3/4	5,131.90	3/4	4,769.52	3/4	4,403.19	3/4	4,036.85	3/4	3,670.52	3/4	3,304.18	3/4	2,937.84	3/4	2,571.51	3/4	2,205.17
3		3	5,125.12	3	4,761.89	3	4,395.56	3	4,029.22	3	3,662.89	3	3,296.55	3	2,930.21	3	2,563.88	3	2,197.54
1/4		1/4	5,118.34	1/4	4,754.26	1/4	4,387.93	1/4	4,021.59	1/4	3,655.26	1/4	3,288.92	1/4	2,922.58	1/4	2,556.24	1/4	2,189.90
1/2		1/2	5,111.55	1/2	4,746.63	1/2	4,380.29	1/2	4,013.95	1/2	3,647.62	1/2	3,281.28	1/2	2,914.95	1/2	2,548.61	1/2	2,182.27
3/4		3/4	5,104.77	3/4	4,739.00	3/4	4,372.66	3/4	4,006.32	3/4	3,639.99	3/4	3,273.65	3/4	2,907.32	3/4	2,540.98	3/4	2,174.64
4		4	5,097.28	4	4,731.37	4	4,365.03	4	3,998.69	4	3,632.36	4	3,266.02	4	2,899.69	4	2,533.35	4	2,167.01
1/4		1/4	5,089.79	1/4	4,723.74	1/4	4,357.40	1/4	3,991.06	1/4	3,624.73	1/4	3,258.39	1/4	2,892.06	1/4	2,525.71	1/4	2,159.38
1/2		1/2	5,082.29	1/2	4,716.10	1/2	4,349.76	1/2	3,983.43	1/2	3,617.09	1/2	3,250.75	1/2	2,884.42	1/2	2,518.08	1/2	2,151.75
3/4		3/4	5,074.80	3/4	4,708.47	3/4	4,342.13	3/4	3,975.80	3/4	3,609.46	3/4	3,243.12	3/4	2,876.79	3/4	2,510.45	3/4	2,144.12
5		5	5,067.17	5	4,700.84	5	4,334.50	5	3,968.17	5	3,601.83	5	3,235.49	5	2,869.16	5	2,502.82	5	2,136.49
1/4		1/4	5,059.54	1/4	4,693.21	1/4	4,326.87	1/4	3,960.54	1/4	3,594.20	1/4	3,227.86	1/4	2,861.53	1/4	2,495.18	1/4	2,128.85
1/2		1/2	5,051.91	1/2	4,685.57	1/2	4,319.23	1/2	3,952.90	1/2	3,586.56	1/2	3,220.23	1/2	2,853.89	1/2	2,487.55	1/2	2,121.22
3/4		3/4	5,044.28	3/4	4,677.94	3/4	4,311.60	3/4	3,945.27	3/4	3,578.93	3/4	3,212.60	3/4	2,846.26	3/4	2,479.92	3/4	2,113.59
6		6	5,036.65	6	4,670.31	6	4,303.97	6	3,937.64	6	3,571.30	6	3,204.97	6	2,838.63	6	2,472.29	6	2,105.96
1/4		1/4	5,029.02	1/4	4,662.68	1/4	4,296.34	1/4	3,930.01	1/4	3,563.67	1/4	3,197.34	1/4	2,831.00	1/4	2,464.66	1/4	2,098.32
1/2		1/2	5,021.38	1/2	4,655.04	1/2	4,288.71	1/2	3,922.37	1/2	3,556.03	1/2	3,189.70	1/2	2,823.36	1/2	2,457.03	1/2	2,090.69
3/4		3/4	5,013.75	3/4	4,647.41	3/4	4,281.08	3/4	3,914.74	3/4	3,548.40	3/4	3,182.07	3/4	2,815.73	3/4	2,449.40	3/4	2,083.06
7		7	5,006.12	7	4,639.78	7	4,273.45	7	3,907.11	7	3,540.77	7	3,174.44	7	2,808.10	7	2,441.77	7	2,075.43
1/4		1/4	4,998.49	1/4	4,632.15	1/4	4,265.82	1/4	3,899.48	1/4	3,533.14	1/4	3,166.81	1/4	2,800.47	1/4	2,434.13	1/4	2,067.79
1/2		1/2	4,990.85	1/2	4,624.51	1/2	4,258.18	1/2	3,891.84	1/2	3,525.51	1/2	3,159.17	1/2	2,792.83	1/2	2,426.50	1/2	2,060.16
3/4		3/4	4,983.22	3/4	4,616.88	3/4	4,250.55	3/4	3,884.21	3/4	3,517.88	3/4	3,151.54	3/4	2,785.20	3/4	2,418.87	3/4	2,052.53
8		8	4,975.59	8	4,609.25	8	4,242.92	8	3,876.58	8	3,510.25	8	3,143.91	8	2,777.57	8	2,411.24	8	2,044.90
1/4		1/4	4,967.96	1/4	4,601.62	1/4	4,235.29	1/4	3,868.95	1/4	3,502.62	1/4	3,136.28	1/4	2,769.94	1/4	2,403.60	1/4	2,037.26
1/2		1/2	4,960.32	1/2	4,593.99	1/2	4,227.65	1/2	3,861.31	1/2	3,494.98	1/2	3,128.64	1/2	2,762.31	1/2	2,395.97	1/2	2,029.63
3/4		3/4	4,952.69	3/4	4,586.36	3/4	4,220.02	3/4	3,853.68	3/4	3,487.35	3/4	3,121.01	3/4	2,754.68	3/4	2,388.34	3/4	2,022.00
9		9	4,945.06	9	4,578.73	9	4,212.39	9	3,846.05	9	3,479.72	9	3,113.38	9	2,747.05	9	2,380.71	9	2,014.37
1/4	5,200.68	1/4	4,937.43	1/4	4,571.10	1/4	4,204.76	1/4	3,838.42	1/4	3,472.09	1/4	3,105.75	1/4	2,739.41	1/4	2,373.07	1/4	2,006.74
1/2	5,200.26	1/2	4,929.79	1/2	4,563.46	1/2	4,197.12	1/2	3,830.79	1/2	3,464.45	1/2	3,098.11	1/2	2,731.78	1/2	2,365.44	1/2	1,999.11
3/4	5,199.84	3/4	4,922.16	3/4	4,555.83	3/4	4,189.49	3/4	3,823.16	3/4	3,456.82	3/4	3,090.48	3/4	2,724.15	3/4	2,357.81	3/4	1,991.48
10	5,198.68	10	4,914.53	10	4,548.20	10	4,181.86	10	3,815.53	10	3,449.19	10	3,082.85	10	2,716.52	10	2,350.18	10	1,983.85
1/4	5,197.52	1/4	4,906.90	1/4	4,540.57	1/4	4,174.23	1/4	3,807.90	1/4	3,441.56	1/4	3,075.22	1/4	2,708.88	1/4	2,342.54	1/4	1,976.21
1/2	5,196.35	1/2	4,899.27	1/2	4,532.93	1/2	4,166.59	1/2	3,800.26	1/2	3,433.92	1/2	3,067.59	1/2	2,701.25	1/2	2,334.91	1/2	1,968.58
3/4	5,195.19	3/4	4,891.64	3/4	4,525.30	3/4	4,158.96	3/4	3,792.63	3/4	3,426.29	3/4	3,059.96	3/4	2,693.62	3/4	2,327.28	3/4	1,960.95
11	5,192.93	11	4,884.01	11	4,517.67	11	4,151.33	11	3,785.00	11	3,418.66	11	3,052.33	11	2,685.99	11	2,319.65	11	1,953.32
1/4	5,190.67	1/4	4,876.38	1/4	4,510.04	1/4	4,143.70	1/4	3,777.37	1/4	3,411.03	1/4	3,044.70	1/4	2,678.35	1/4	2,312.02	1/4	1,945.68
1/2	5,188.41	1/2	4,868.74	1/2	4,502.40	1/2	4,136.07	1/2	3,769.73	1/2	3,403.39	1/2	3,037.06	1/2	2,670.72	1/2	2,304.39	1/2	1,938.05
3/4	5,186.15	3/4	4,861.11	3/4	4,494.77	3/4	4,128.44	3/4	3,762.10	3/4	3,395.76	3/4	3,029.43	3/4	2,663.09	3/4	2,296.76	3/4	1,930.42

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10-06" OFF CENTERLINE AND 44-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "MM 138"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,922.79	0	1,556.45	0	1,190.12	0	823.77	0	458.05	0	115.63	0		0		0		0	
1/4	1,915.15	1/4	1,548.82	1/4	1,182.48	1/4	816.13	1/4	450.57	1/4	108.90	1/4		1/4		1/4		1/4	
1/2	1,907.52	1/2	1,541.19	1/2	1,174.85	1/2	808.50	1/2	443.10	1/2	102.18	1/2		1/2		1/2		1/2	
3/4	1,899.89	3/4	1,533.56	3/4	1,167.22	3/4	800.86	3/4	435.63	3/4	95.45	3/4		3/4		3/4		3/4	
1	1,892.26	1	1,525.93	1	1,159.59	1	793.23	1	428.19	1	88.75	1		1		1		1	
1/4	1,884.62	1/4	1,518.29	1/4	1,151.95	1/4	785.61	1/4	420.74	1/4	82.05	1/4		1/4		1/4		1/4	
1/2	1,876.99	1/2	1,510.66	1/2	1,144.32	1/2	777.98	1/2	413.30	1/2	75.35	1/2		1/2		1/2		1/2	
3/4	1,869.36	3/4	1,503.03	3/4	1,136.69	3/4	770.36	3/4	405.86	3/4	68.65	3/4		3/4		3/4		3/4	
2	1,861.73	2	1,495.40	2	1,129.06	2	762.73	2	398.51	2	62.15	2		2		2		2	
1/4	1,854.10	1/4	1,487.76	1/4	1,121.42	1/4	755.09	1/4	391.15	1/4	55.66	1/4		1/4		1/4		1/4	
1/2	1,846.47	1/2	1,480.13	1/2	1,113.79	1/2	747.46	1/2	383.80	1/2	49.16	1/2		1/2		1/2		1/2	
3/4	1,838.84	3/4	1,472.50	3/4	1,106.16	3/4	739.83	3/4	376.45	3/4	42.67	3/4		3/4		3/4		3/4	
3	1,831.21	3	1,464.87	3	1,098.53	3	732.20	3	369.13	3	37.49	3		3		3		3	
1/4	1,823.57	1/4	1,457.23	1/4	1,090.90	1/4	724.56	1/4	361.81	1/4	32.32	1/4		1/4		1/4		1/4	
1/2	1,815.94	1/2	1,449.60	1/2	1,083.27	1/2	716.93	1/2	354.49	1/2	27.14	1/2		1/2		1/2		1/2	
3/4	1,808.31	3/4	1,441.97	3/4	1,075.64	3/4	709.30	3/4	347.17	3/4	21.97	3/4		3/4		3/4		3/4	
4	1,800.68	4	1,434.34	4	1,068.01	4	701.67	4	339.94	4		4		4		4		4	
1/4	1,793.04	1/4	1,426.70	1/4	1,060.37	1/4	694.03	1/4	332.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,785.41	1/2	1,419.07	1/2	1,052.74	1/2	686.40	1/2	325.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,777.78	3/4	1,411.44	3/4	1,045.11	3/4	678.77	3/4	318.26	3/4		3/4		3/4		3/4		3/4	
5	1,770.15	5	1,403.81	5	1,037.48	5	671.14	5	311.06	5		5		5		5		5	
1/4	1,762.51	1/4	1,396.18	1/4	1,029.84	1/4	663.50	1/4	303.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.88	1/2	1,388.55	1/2	1,022.21	1/2	655.87	1/2	296.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,747.25	3/4	1,380.92	3/4	1,014.58	3/4	648.24	3/4	289.48	3/4		3/4		3/4		3/4		3/4	
6	1,739.62	6	1,373.29	6	1,006.95	6	640.61	6	282.38	6		6		6		6		6	
1/4	1,731.98	1/4	1,365.65	1/4	999.31	1/4	632.98	1/4	275.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,724.35	1/2	1,358.02	1/2	991.68	1/2	625.35	1/2	268.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.72	3/4	1,350.39	3/4	984.05	3/4	617.72	3/4	261.07	3/4		3/4		3/4		3/4		3/4	
7	1,709.09	7	1,342.76	7	976.42	7	610.09	7	254.00	7		7		7		7		7	
1/4	1,701.46	1/4	1,335.12	1/4	968.78	1/4	602.45	1/4	246.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,693.83	1/2	1,327.49	1/2	961.15	1/2	594.82	1/2	239.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,686.20	3/4	1,319.86	3/4	953.52	3/4	587.19	3/4	232.78	3/4		3/4		3/4		3/4		3/4	
8	1,678.57	8	1,312.23	8	945.89	8	579.56	8	225.80	8		8		8		8		8	
1/4	1,670.93	1/4	1,304.59	1/4	938.26	1/4	571.92	1/4	218.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,663.30	1/2	1,296.96	1/2	930.63	1/2	564.29	1/2	211.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,655.67	3/4	1,289.33	3/4	923.00	3/4	556.66	3/4	204.86	3/4		3/4		3/4		3/4		3/4	
9	1,648.04	9	1,281.70	9	915.37	9	549.03	9	197.91	9		9		9		9		9	
1/4	1,640.40	1/4	1,274.06	1/4	907.73	1/4	541.39	1/4	190.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,632.77	1/2	1,266.43	1/2	900.10	1/2	533.76	1/2	184.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,625.14	3/4	1,258.80	3/4	892.47	3/4	526.13	3/4	177.07	3/4		3/4		3/4		3/4		3/4	
10	1,617.51	10	1,251.17	10	884.84	10	518.55	10	170.22	10		10		10		10		10	
1/4	1,609.87	1/4	1,243.54	1/4	877.20	1/4	510.96	1/4	163.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,602.24	1/2	1,235.91	1/2	869.57	1/2	503.38	1/2	156.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,594.61	3/4	1,228.28	3/4	861.94	3/4	495.80	3/4	149.66	3/4		3/4		3/4		3/4		3/4	
11	1,586.98	11	1,220.65	11	854.31	11	488.23	11	142.83	11		11		11		11		11	
1/4	1,579.34	1/4	1,213.01	1/4	846.67	1/4	480.66	1/4	136.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,571.71	1/2	1,205.38	1/2	839.04	1/2	473.09	1/2	129.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,564.08	3/4	1,197.75	3/4	831.41	3/4	465.52	3/4	122.36	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	5,190.67	0	4,876.38	0	4,510.04	0	4,143.70	0	3,777.37	0	3,411.03	0	3,044.70	0	2,678.35	0	2,312.02
1/4		1/4	5,188.41	1/4	4,868.74	1/4	4,502.40	1/4	4,136.07	1/4	3,769.73	1/4	3,403.39	1/4	3,037.06	1/4	2,670.72	1/4	2,304.39
1/2		1/2	5,186.15	1/2	4,861.11	1/2	4,494.77	1/2	4,128.44	1/2	3,762.10	1/2	3,395.76	1/2	3,029.43	1/2	2,663.09	1/2	2,296.76
3/4		3/4	5,182.76	3/4	4,853.48	3/4	4,487.14	3/4	4,120.81	3/4	3,754.47	3/4	3,388.13	3/4	3,021.80	3/4	2,655.46	3/4	2,289.13
1		1	5,179.38	1	4,845.85	1	4,479.51	1	4,113.18	1	3,746.84	1	3,380.50	1	3,014.17	1	2,647.82	1	2,281.49
1/4		1/4	5,175.99	1/4	4,838.21	1/4	4,471.87	1/4	4,105.54	1/4	3,739.20	1/4	3,372.87	1/4	3,006.53	1/4	2,640.19	1/4	2,273.86
1/2		1/2	5,172.60	1/2	4,830.58	1/2	4,464.24	1/2	4,097.91	1/2	3,731.57	1/2	3,365.24	1/2	2,998.90	1/2	2,632.56	1/2	2,266.23
3/4		3/4	5,168.08	3/4	4,822.95	3/4	4,456.61	3/4	4,090.28	3/4	3,723.94	3/4	3,357.61	3/4	2,991.27	3/4	2,624.93	3/4	2,258.60
2		2	5,163.56	2	4,815.32	2	4,448.98	2	4,082.65	2	3,716.31	2	3,349.98	2	2,983.64	2	2,617.30	2	2,250.96
1/4		1/4	5,159.03	1/4	4,807.68	1/4	4,441.35	1/4	4,075.01	1/4	3,708.67	1/4	3,342.34	1/4	2,976.00	1/4	2,609.67	1/4	2,243.33
1/2		1/2	5,154.51	1/2	4,800.05	1/2	4,433.72	1/2	4,067.38	1/2	3,701.04	1/2	3,334.71	1/2	2,968.37	1/2	2,602.04	1/2	2,235.70
3/4		3/4	5,148.86	3/4	4,792.42	3/4	4,426.09	3/4	4,059.75	3/4	3,693.41	3/4	3,327.08	3/4	2,960.74	3/4	2,594.41	3/4	2,228.07
3		3	5,143.21	3	4,784.79	3	4,418.46	3	4,052.12	3	3,685.78	3	3,319.45	3	2,953.11	3	2,586.77	3	2,220.43
1/4		1/4	5,137.55	1/4	4,777.15	1/4	4,410.82	1/4	4,044.48	1/4	3,678.15	1/4	3,311.81	1/4	2,945.47	1/4	2,579.14	1/4	2,212.80
1/2		1/2	5,131.90	1/2	4,769.52	1/2	4,403.19	1/2	4,036.85	1/2	3,670.52	1/2	3,304.18	1/2	2,937.84	1/2	2,571.51	1/2	2,205.17
3/4		3/4	5,125.12	3/4	4,761.89	3/4	4,395.56	3/4	4,029.22	3/4	3,662.89	3/4	3,296.55	3/4	2,930.21	3/4	2,563.88	3/4	2,197.54
4		4	5,118.34	4	4,754.26	4	4,387.93	4	4,021.59	4	3,655.26	4	3,288.92	4	2,922.58	4	2,556.24	4	2,189.90
1/4		1/4	5,111.55	1/4	4,746.63	1/4	4,380.29	1/4	4,013.95	1/4	3,647.62	1/4	3,281.28	1/4	2,914.95	1/4	2,548.61	1/4	2,182.27
1/2		1/2	5,104.77	1/2	4,739.00	1/2	4,372.66	1/2	4,006.32	1/2	3,639.99	1/2	3,273.65	1/2	2,907.32	1/2	2,540.98	1/2	2,174.64
3/4		3/4	5,097.28	3/4	4,731.37	3/4	4,365.03	3/4	3,998.69	3/4	3,632.36	3/4	3,266.02	3/4	2,899.69	3/4	2,533.35	3/4	2,167.01
5		5	5,089.79	5	4,723.74	5	4,357.40	5	3,991.06	5	3,624.73	5	3,258.39	5	2,892.06	5	2,525.71	5	2,159.38
1/4		1/4	5,082.29	1/4	4,716.10	1/4	4,349.76	1/4	3,983.43	1/4	3,617.09	1/4	3,250.75	1/4	2,884.42	1/4	2,518.08	1/4	2,151.75
1/2		1/2	5,074.80	1/2	4,708.47	1/2	4,342.13	1/2	3,975.80	1/2	3,609.46	1/2	3,243.12	1/2	2,876.79	1/2	2,510.45	1/2	2,144.12
3/4		3/4	5,067.17	3/4	4,700.84	3/4	4,334.50	3/4	3,968.17	3/4	3,601.83	3/4	3,235.49	3/4	2,869.16	3/4	2,502.82	3/4	2,136.49
6		6	5,059.54	6	4,693.21	6	4,326.87	6	3,960.54	6	3,594.20	6	3,227.86	6	2,861.53	6	2,495.18	6	2,128.85
1/4		1/4	5,051.91	1/4	4,685.57	1/4	4,319.23	1/4	3,952.90	1/4	3,586.56	1/4	3,220.23	1/4	2,853.89	1/4	2,487.55	1/4	2,121.22
1/2		1/2	5,044.28	1/2	4,677.94	1/2	4,311.60	1/2	3,945.27	1/2	3,578.93	1/2	3,212.60	1/2	2,846.26	1/2	2,479.92	1/2	2,113.59
3/4		3/4	5,036.65	3/4	4,670.31	3/4	4,303.97	3/4	3,937.64	3/4	3,571.30	3/4	3,204.97	3/4	2,838.63	3/4	2,472.29	3/4	2,105.96
7		7	5,029.02	7	4,662.68	7	4,296.34	7	3,930.01	7	3,563.67	7	3,197.34	7	2,831.00	7	2,464.66	7	2,098.32
1/4		1/4	5,021.38	1/4	4,655.04	1/4	4,288.71	1/4	3,922.37	1/4	3,556.03	1/4	3,189.70	1/4	2,823.36	1/4	2,457.03	1/4	2,090.69
1/2		1/2	5,013.75	1/2	4,647.41	1/2	4,281.08	1/2	3,914.74	1/2	3,548.40	1/2	3,182.07	1/2	2,815.73	1/2	2,449.40	1/2	2,083.06
3/4		3/4	5,006.12	3/4	4,639.78	3/4	4,273.45	3/4	3,907.11	3/4	3,540.77	3/4	3,174.44	3/4	2,808.10	3/4	2,441.77	3/4	2,075.43
8		8	4,998.49	8	4,632.15	8	4,265.82	8	3,899.48	8	3,533.14	8	3,166.81	8	2,800.47	8	2,434.13	8	2,067.79
1/4		1/4	4,990.85	1/4	4,624.51	1/4	4,258.18	1/4	3,891.84	1/4	3,525.51	1/4	3,159.17	1/4	2,792.83	1/4	2,426.50	1/4	2,060.16
1/2		1/2	4,983.22	1/2	4,616.88	1/2	4,250.55	1/2	3,884.21	1/2	3,517.88	1/2	3,151.54	1/2	2,785.20	1/2	2,418.87	1/2	2,052.53
3/4		3/4	4,975.59	3/4	4,609.25	3/4	4,242.92	3/4	3,876.58	3/4	3,510.25	3/4	3,143.91	3/4	2,777.57	3/4	2,411.24	3/4	2,044.90
9		9	4,967.96	9	4,601.62	9	4,235.29	9	3,868.95	9	3,502.62	9	3,136.28	9	2,769.94	9	2,403.60	9	2,037.26
1/4		1/4	4,960.32	1/4	4,593.99	1/4	4,227.65	1/4	3,861.31	1/4	3,494.98	1/4	3,128.64	1/4	2,762.31	1/4	2,395.97	1/4	2,029.63
1/2		1/2	4,952.69	1/2	4,586.36	1/2	4,220.02	1/2	3,853.68	1/2	3,487.35	1/2	3,121.01	1/2	2,754.68	1/2	2,388.34	1/2	2,022.00
3/4		3/4	4,945.06	3/4	4,578.73	3/4	4,212.39	3/4	3,846.05	3/4	3,479.72	3/4	3,113.38	3/4	2,747.05	3/4	2,380.71	3/4	2,014.37
10	5,200.68	10	4,937.43	10	4,571.10	10	4,204.76	10	3,838.42	10	3,472.09	10	3,105.75	10	2,739.41	10	2,373.07	10	2,006.74
1/4	5,200.26	1/4	4,929.79	1/4	4,563.46	1/4	4,197.12	1/4	3,830.79	1/4	3,464.45	1/4	3,098.11	1/4	2,731.78	1/4	2,365.44	1/4	1,999.11
1/2	5,199.84	1/2	4,922.16	1/2	4,555.83	1/2	4,189.49	1/2	3,823.16	1/2	3,456.82	1/2	3,090.48	1/2	2,724.15	1/2	2,357.81	1/2	1,991.48
3/4	5,198.68	3/4	4,914.53	3/4	4,548.20	3/4	4,181.86	3/4	3,815.53	3/4	3,449.19	3/4	3,082.85	3/4	2,716.52	3/4	2,350.18	3/4	1,983.85
11	5,197.52	11	4,906.90	11	4,540.57	11	4,174.23	11	3,807.90	11	3,441.56	11	3,075.22	11	2,708.88	11	2,342.54	11	1,976.21
1/4	5,196.35	1/4	4,899.27	1/4	4,532.93	1/4	4,166.59	1/4	3,800.26	1/4	3,433.92	1/4	3,067.59	1/4	2,701.25	1/4	2,334.91	1/4	1,968.58
1/2	5,195.19	1/2	4,891.64	1/2	4,525.30	1/2	4,158.96	1/2	3,792.63	1/2	3,426.29	1/2	3,059.96	1/2	2,693.62	1/2	2,327.28	1/2	1,960.95
3/4	5,192.93	3/4	4,884.01	3/4	4,517.67	3/4	4,151.33	3/4	3,785.00	3/4	3,418.66	3/4	3,052.33	3/4	2,685.99	3/4	2,319.65	3/4	1,953.32

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10-06" OFF CENTERLINE AND 44-03" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	1,945.68	0	1,579.34	0	1,213.01	0	846.67	0	480.66	0	136.01	0		0		0		0	
1/4	1,938.05	1/4	1,571.71	1/4	1,205.38	1/4	839.04	1/4	473.09	1/4	129.18	1/4		1/4		1/4		1/4	
1/2	1,930.42	1/2	1,564.08	1/2	1,197.75	1/2	831.41	1/2	465.52	1/2	122.36	1/2		1/2		1/2		1/2	
3/4	1,922.79	3/4	1,556.45	3/4	1,190.12	3/4	823.77	3/4	458.05	3/4	115.63	3/4		3/4		3/4		3/4	
1	1,915.15	1	1,548.82	1	1,182.48	1	816.13	1	450.57	1	108.90	1		1		1		1	
1/4	1,907.52	1/4	1,541.19	1/4	1,174.85	1/4	808.50	1/4	443.10	1/4	102.18	1/4		1/4		1/4		1/4	
1/2	1,899.89	1/2	1,533.56	1/2	1,167.22	1/2	800.86	1/2	435.63	1/2	95.45	1/2		1/2		1/2		1/2	
3/4	1,892.26	3/4	1,525.93	3/4	1,159.59	3/4	793.23	3/4	428.19	3/4	88.75	3/4		3/4		3/4		3/4	
2	1,884.62	2	1,518.29	2	1,151.95	2	785.61	2	420.74	2	82.05	2		2		2		2	
1/4	1,876.99	1/4	1,510.66	1/4	1,144.32	1/4	777.98	1/4	413.30	1/4	75.35	1/4		1/4		1/4		1/4	
1/2	1,869.36	1/2	1,503.03	1/2	1,136.69	1/2	770.36	1/2	405.86	1/2	68.65	1/2		1/2		1/2		1/2	
3/4	1,861.73	3/4	1,495.40	3/4	1,129.06	3/4	762.73	3/4	398.51	3/4	62.15	3/4		3/4		3/4		3/4	
3	1,854.10	3	1,487.76	3	1,121.42	3	755.09	3	391.15	3	55.66	3		3		3		3	
1/4	1,846.47	1/4	1,480.13	1/4	1,113.79	1/4	747.46	1/4	383.80	1/4	49.16	1/4		1/4		1/4		1/4	
1/2	1,838.84	1/2	1,472.50	1/2	1,106.16	1/2	739.83	1/2	376.45	1/2	42.67	1/2		1/2		1/2		1/2	
3/4	1,831.21	3/4	1,464.87	3/4	1,098.53	3/4	732.20	3/4	369.13	3/4	37.49	3/4		3/4		3/4		3/4	
4	1,823.57	4	1,457.23	4	1,090.90	4	724.56	4	361.81	4	32.32	4		4		4		4	
1/4	1,815.94	1/4	1,449.60	1/4	1,083.27	1/4	716.93	1/4	354.49	1/4	27.14	1/4		1/4		1/4		1/4	
1/2	1,808.31	1/2	1,441.97	1/2	1,075.64	1/2	709.30	1/2	347.17	1/2	21.97	1/2		1/2		1/2		1/2	
3/4	1,800.68	3/4	1,434.34	3/4	1,068.01	3/4	701.67	3/4	339.94	3/4		3/4		3/4		3/4		3/4	
5	1,793.04	5	1,426.70	5	1,060.37	5	694.03	5	332.71	5		5		5		5		5	
1/4	1,785.41	1/4	1,419.07	1/4	1,052.74	1/4	686.40	1/4	325.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,777.78	1/2	1,411.44	1/2	1,045.11	1/2	678.77	1/2	318.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,770.15	3/4	1,403.81	3/4	1,037.48	3/4	671.14	3/4	311.06	3/4		3/4		3/4		3/4		3/4	
6	1,762.51	6	1,396.18	6	1,029.84	6	663.50	6	303.87	6		6		6		6		6	
1/4	1,754.88	1/4	1,388.55	1/4	1,022.21	1/4	655.87	1/4	296.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,747.25	1/2	1,380.92	1/2	1,014.58	1/2	648.24	1/2	289.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,739.62	3/4	1,373.29	3/4	1,006.95	3/4	640.61	3/4	282.38	3/4		3/4		3/4		3/4		3/4	
7	1,731.98	7	1,365.65	7	999.31	7	632.98	7	275.27	7		7		7		7		7	
1/4	1,724.35	1/4	1,358.02	1/4	991.68	1/4	625.35	1/4	268.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,716.72	1/2	1,350.39	1/2	984.05	1/2	617.72	1/2	261.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,709.09	3/4	1,342.76	3/4	976.42	3/4	610.09	3/4	254.00	3/4		3/4		3/4		3/4		3/4	
8	1,701.46	8	1,335.12	8	968.78	8	602.45	8	246.92	8		8		8		8		8	
1/4	1,693.83	1/4	1,327.49	1/4	961.15	1/4	594.82	1/4	239.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,686.20	1/2	1,319.86	1/2	953.52	1/2	587.19	1/2	232.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,678.57	3/4	1,312.23	3/4	945.89	3/4	579.56	3/4	225.80	3/4		3/4		3/4		3/4		3/4	
9	1,670.93	9	1,304.59	9	938.26	9	571.92	9	218.82	9		9		9		9		9	
1/4	1,663.30	1/4	1,296.96	1/4	930.63	1/4	564.29	1/4	211.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,655.67	1/2	1,289.33	1/2	923.00	1/2	556.66	1/2	204.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,648.04	3/4	1,281.70	3/4	915.37	3/4	549.03	3/4	197.91	3/4		3/4		3/4		3/4		3/4	
10	1,640.40	10	1,274.06	10	907.73	10	541.39	10	190.96	10		10		10		10		10	
1/4	1,632.77	1/4	1,266.43	1/4	900.10	1/4	533.76	1/4	184.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,625.14	1/2	1,258.80	1/2	892.47	1/2	526.13	1/2	177.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,617.51	3/4	1,251.17	3/4	884.84	3/4	518.55	3/4	170.22	3/4		3/4		3/4		3/4		3/4	
11	1,609.87	11	1,243.54	11	877.20	11	510.96	11	163.36	11		11		11		11		11	
1/4	1,602.24	1/4	1,235.91	1/4	869.57	1/4	503.38	1/4	156.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,594.61	1/2	1,228.28	1/2	861.94	1/2	495.80	1/2	149.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,586.98	3/4	1,220.65	3/4	854.31	3/4	488.23	3/4	142.83	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	4,902.19	0	4,603.70	0	4,260.77	0	3,917.04	0	3,573.31	0	3,229.58	0	2,885.86	0	2,542.13	0	2,198.40	
1/4	1/4	4,899.81	1/4	4,596.58	1/4	4,253.60	1/4	3,909.88	1/4	3,566.15	1/4	3,222.42	1/4	2,878.69	1/4	2,534.96	1/4	2,191.24	
1/2	1/2	4,897.42	1/2	4,589.47	1/2	4,246.44	1/2	3,902.72	1/2	3,558.99	1/2	3,215.26	1/2	2,871.53	1/2	2,527.80	1/2	2,184.08	
3/4	3/4	4,893.98	3/4	4,582.36	3/4	4,239.28	3/4	3,895.56	3/4	3,551.83	3/4	3,208.10	3/4	2,864.37	3/4	2,520.64	3/4	2,176.92	
1	1	4,890.53	1	4,575.25	1	4,232.12	1	3,888.40	1	3,544.67	1	3,200.94	1	2,857.21	1	2,513.48	1	2,169.76	
1/4	1/4	4,887.09	1/4	4,568.14	1/4	4,224.96	1/4	3,881.23	1/4	3,537.50	1/4	3,193.78	1/4	2,850.05	1/4	2,506.32	1/4	2,162.59	
1/2	1/2	4,883.64	1/2	4,561.03	1/2	4,217.80	1/2	3,874.07	1/2	3,530.34	1/2	3,186.62	1/2	2,842.89	1/2	2,499.16	1/2	2,155.43	
3/4	3/4	4,879.14	3/4	4,553.92	3/4	4,210.64	3/4	3,866.91	3/4	3,523.18	3/4	3,179.46	3/4	2,835.73	3/4	2,492.00	3/4	2,148.27	
2	2	4,874.63	2	4,546.81	2	4,203.48	2	3,859.75	2	3,516.02	2	3,172.30	2	2,828.57	2	2,484.84	2	2,141.11	
1/4	1/4	4,870.13	1/4	4,539.69	1/4	4,196.32	1/4	3,852.59	1/4	3,508.86	1/4	3,165.13	1/4	2,821.40	1/4	2,477.68	1/4	2,133.95	
1/2	1/2	4,865.62	1/2	4,532.58	1/2	4,189.16	1/2	3,845.43	1/2	3,501.70	1/2	3,157.97	1/2	2,814.24	1/2	2,470.52	1/2	2,126.79	
3/4	3/4	4,860.05	3/4	4,525.47	3/4	4,182.00	3/4	3,838.27	3/4	3,494.54	3/4	3,150.81	3/4	2,807.08	3/4	2,463.36	3/4	2,119.63	
3	3	4,854.48	3	4,518.36	3	4,174.84	3	3,831.11	3	3,487.38	3	3,143.65	3	2,799.92	3	2,456.20	3	2,112.47	
1/4	1/4	4,848.91	1/4	4,511.25	1/4	4,167.67	1/4	3,823.94	1/4	3,480.22	1/4	3,136.49	1/4	2,792.76	1/4	2,449.03	1/4	2,105.30	
1/2	1/2	4,843.34	1/2	4,504.14	1/2	4,160.51	1/2	3,816.78	1/2	3,473.06	1/2	3,129.33	1/2	2,785.60	1/2	2,441.87	1/2	2,098.14	
3/4	3/4	4,836.76	3/4	4,497.01	3/4	4,153.35	3/4	3,809.62	3/4	3,465.90	3/4	3,122.17	3/4	2,778.44	3/4	2,434.71	3/4	2,090.98	
4	4	4,830.18	4	4,489.87	4	4,146.19	4	3,802.46	4	3,458.74	4	3,115.01	4	2,771.28	4	2,427.55	4	2,083.82	
1/4	1/4	4,823.60	1/4	4,482.74	1/4	4,139.03	1/4	3,795.30	1/4	3,451.57	1/4	3,107.84	1/4	2,764.12	1/4	2,420.39	1/4	2,076.66	
1/2	1/2	4,817.02	1/2	4,475.60	1/2	4,131.87	1/2	3,788.14	1/2	3,444.41	1/2	3,100.68	1/2	2,756.96	1/2	2,413.23	1/2	2,069.50	
3/4	3/4	4,809.91	3/4	4,468.44	3/4	4,124.71	3/4	3,780.98	3/4	3,437.25	3/4	3,093.52	3/4	2,749.80	3/4	2,406.07	3/4	2,062.34	
5	5	4,802.80	5	4,461.28	5	4,117.55	5	3,773.82	5	3,430.09	5	3,086.36	5	2,742.64	5	2,398.91	5	2,055.18	
1/4	1/4	4,795.69	1/4	4,454.11	1/4	4,110.38	1/4	3,766.66	1/4	3,422.93	1/4	3,079.20	1/4	2,735.47	1/4	2,391.74	1/4	2,048.02	
1/2	1/2	4,788.58	1/2	4,446.95	1/2	4,103.22	1/2	3,759.50	1/2	3,415.77	1/2	3,072.04	1/2	2,728.31	1/2	2,384.58	1/2	2,040.86	
3/4	3/4	4,781.47	3/4	4,439.79	3/4	4,096.06	3/4	3,752.34	3/4	3,408.61	3/4	3,064.88	3/4	2,721.15	3/4	2,377.42	3/4	2,033.70	
6	6	4,774.36	6	4,432.63	6	4,088.90	6	3,745.18	6	3,401.45	6	3,057.72	6	2,713.99	6	2,370.26	6	2,026.54	
1/4	1/4	4,767.25	1/4	4,425.47	1/4	4,081.74	1/4	3,738.01	1/4	3,394.28	1/4	3,050.56	1/4	2,706.83	1/4	2,363.10	1/4	2,019.37	
1/2	1/2	4,760.14	1/2	4,418.31	1/2	4,074.58	1/2	3,730.85	1/2	3,387.12	1/2	3,043.40	1/2	2,699.67	1/2	2,355.94	1/2	2,012.21	
3/4	3/4	4,753.03	3/4	4,411.15	3/4	4,067.42	3/4	3,723.69	3/4	3,379.96	3/4	3,036.24	3/4	2,692.51	3/4	2,348.78	3/4	2,005.05	
7	7	4,745.92	7	4,403.99	7	4,060.26	7	3,716.53	7	3,372.80	7	3,029.08	7	2,685.35	7	2,341.62	7	1,997.89	
1/4	1/4	4,738.80	1/4	4,396.82	1/4	4,053.10	1/4	3,709.37	1/4	3,365.64	1/4	3,021.91	1/4	2,678.18	1/4	2,334.46	1/4	1,990.73	
1/2	1/2	4,731.69	1/2	4,389.66	1/2	4,045.94	1/2	3,702.21	1/2	3,358.48	1/2	3,014.75	1/2	2,671.02	1/2	2,327.30	1/2	1,983.57	
3/4	3/4	4,724.58	3/4	4,382.50	3/4	4,038.78	3/4	3,695.05	3/4	3,351.32	3/4	3,007.59	3/4	2,663.86	3/4	2,320.14	3/4	1,976.41	
8	8	4,717.47	8	4,375.34	8	4,031.62	8	3,687.89	8	3,344.16	8	3,000.43	8	2,656.70	8	2,312.98	8	1,969.25	
1/4	1/4	4,710.36	1/4	4,368.18	1/4	4,024.45	1/4	3,680.72	1/4	3,337.00	1/4	2,993.27	1/4	2,649.54	1/4	2,305.81	1/4	1,962.08	
1/2	1/2	4,703.25	1/2	4,361.02	1/2	4,017.29	1/2	3,673.56	1/2	3,329.84	1/2	2,986.11	1/2	2,642.38	1/2	2,298.65	1/2	1,954.92	
3/4	3/4	4,696.14	3/4	4,353.86	3/4	4,010.13	3/4	3,666.40	3/4	3,322.68	3/4	2,978.95	3/4	2,635.22	3/4	2,291.49	3/4	1,947.76	
9	9	4,689.03	9	4,346.70	9	4,002.97	9	3,659.24	9	3,315.52	9	2,971.79	9	2,628.06	9	2,284.33	9	1,940.60	
1/4	1/4	4,681.91	1/4	4,339.54	1/4	3,995.81	1/4	3,652.08	1/4	3,308.35	1/4	2,964.62	1/4	2,620.90	1/4	2,277.17	1/4	1,933.44	
1/2	1/2	4,674.80	1/2	4,332.38	1/2	3,988.65	1/2	3,644.92	1/2	3,301.19	1/2	2,957.46	1/2	2,613.74	1/2	2,270.01	1/2	1,926.28	
3/4	4,913.43	3/4	4,667.69	3/4	4,325.22	3/4	3,981.49	3/4	3,637.76	3/4	3,294.03	3/4	2,950.30	3/4	2,606.58	3/4	2,262.85	3/4	1,919.12
10	4,913.04	10	4,660.58	10	4,318.06	10	3,974.33	10	3,630.60	10	3,286.87	10	2,943.14	10	2,599.42	10	2,255.69	10	1,911.96
1/4	4,912.64	1/4	4,653.47	1/4	4,310.89	1/4	3,967.16	1/4	3,623.44	1/4	3,279.71	1/4	2,935.98	1/4	2,592.25	1/4	2,248.52	1/4	1,904.80
1/2	4,912.25	1/2	4,646.36	1/2	4,303.73	1/2	3,960.00	1/2	3,616.28	1/2	3,272.55	1/2	2,928.82	1/2	2,585.09	1/2	2,241.36	1/2	1,897.64
3/4	4,910.93	3/4	4,639.25	3/4	4,296.57	3/4	3,952.84	3/4	3,609.12	3/4	3,265.39	3/4	2,921.66	3/4	2,577.93	3/4	2,234.20	3/4	1,890.48
11	4,909.61	11	4,632.14	11	4,289.41	11	3,945.68	11	3,601.96	11	3,258.23	11	2,914.50	11	2,570.77	11	2,227.04	11	1,883.32
1/4	4,908.28	1/4	4,625.03	1/4	4,282.25	1/4	3,938.52	1/4	3,594.79	1/4	3,251.06	1/4	2,907.34	1/4	2,563.61	1/4	2,219.88	1/4	1,876.15
1/2	4,906.96	1/2	4,617.92	1/2	4,275.09	1/2	3,931.36	1/2	3,587.63	1/2	3,243.90	1/2	2,900.18	1/2	2,556.45	1/2	2,212.72	1/2	1,868.99
3/4	4,904.58	3/4	4,610.81	3/4	4,267.93	3/4	3,924.20	3/4	3,580.47	3/4	3,236.74	3/4	2,893.02	3/4	2,549.29	3/4	2,205.56	3/4	1,861.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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	1,854.67	0	1,510.94	0	1,167.22	0	823.49	0	479.76	0	136.03	0		0		0		0	
1/4	1,847.51	1/4	1,503.78	1/4	1,160.05	1/4	816.32	1/4	472.60	1/4	128.87	1/4		1/4		1/4		1/4	
1/2	1,840.35	1/2	1,496.62	1/2	1,152.89	1/2	809.16	1/2	465.44	1/2	121.71	1/2		1/2		1/2		1/2	
3/4	1,833.19	3/4	1,489.46	3/4	1,145.73	3/4	802.00	3/4	458.28	3/4	114.55	3/4		3/4		3/4		3/4	
1	1,826.03	1	1,482.30	1	1,138.57	1	794.84	1	451.12	1	107.39	1		1		1		1	
1/4	1,818.86	1/4	1,475.14	1/4	1,131.41	1/4	787.68	1/4	443.95	1/4	100.22	1/4		1/4		1/4		1/4	
1/2	1,811.70	1/2	1,467.98	1/2	1,124.25	1/2	780.52	1/2	436.79	1/2	93.06	1/2		1/2		1/2		1/2	
3/4	1,804.54	3/4	1,460.82	3/4	1,117.09	3/4	773.36	3/4	429.63	3/4	85.90	3/4		3/4		3/4		3/4	
2	1,797.38	2	1,453.66	2	1,109.93	2	766.20	2	422.47	2	78.74	2		2		2		2	
1/4	1,790.22	1/4	1,446.49	1/4	1,102.76	1/4	759.04	1/4	415.31	1/4	71.58	1/4		1/4		1/4		1/4	
1/2	1,783.06	1/2	1,439.33	1/2	1,095.60	1/2	751.88	1/2	408.15	1/2	64.42	1/2		1/2		1/2		1/2	
3/4	1,775.90	3/4	1,432.17	3/4	1,088.44	3/4	744.72	3/4	400.99	3/4	57.26	3/4		3/4		3/4		3/4	
3	1,768.74	3	1,425.01	3	1,081.28	3	737.56	3	393.83	3	50.61	3		3		3		3	
1/4	1,761.58	1/4	1,417.85	1/4	1,074.12	1/4	730.39	1/4	386.66	1/4	43.71	1/4		1/4		1/4		1/4	
1/2	1,754.42	1/2	1,410.69	1/2	1,066.96	1/2	723.23	1/2	379.50	1/2	36.80	1/2		1/2		1/2		1/2	
3/4	1,747.26	3/4	1,403.53	3/4	1,059.80	3/4	716.07	3/4	372.34	3/4	30.19	3/4		3/4		3/4		3/4	
4	1,740.10	4	1,396.37	4	1,052.64	4	708.91	4	370.18	4	26.58	4		4		4		4	
1/4	1,733.10	1/4	1,389.20	1/4	1,045.48	1/4	701.75	1/4	365.52	1/4	21.46	1/4		1/4		1/4		1/4	
1/2	1,725.99	1/2	1,382.04	1/2	1,038.32	1/2	694.59	1/2	360.86	1/2	16.35	1/2		1/2		1/2		1/2	
3/4	1,718.78	3/4	1,374.88	3/4	1,031.16	3/4	687.43	3/4	351.20	3/4		3/4		3/4		3/4		3/4	
5	1,711.56	5	1,367.72	5	1,024.00	5	680.27	5	341.54	5		5		5		5		5	
1/4	1,704.35	1/4	1,360.56	1/4	1,016.83	1/4	673.10	1/4	331.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,697.13	1/2	1,353.40	1/2	1,009.67	1/2	665.94	1/2	322.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,689.97	3/4	1,346.24	3/4	1,002.51	3/4	658.78	3/4	315.06	3/4		3/4		3/4		3/4		3/4	
6	1,682.81	6	1,339.08	6	995.35	6	651.62	6	307.90	6		6		6		6		6	
1/4	1,675.64	1/4	1,331.92	1/4	988.19	1/4	644.46	1/4	300.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,668.48	1/2	1,324.76	1/2	981.03	1/2	637.30	1/2	293.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,661.32	3/4	1,317.60	3/4	973.87	3/4	630.14	3/4	286.41	3/4		3/4		3/4		3/4		3/4	
7	1,654.16	7	1,310.44	7	966.71	7	622.98	7	279.25	7		7		7		7		7	
1/4	1,647.00	1/4	1,303.27	1/4	959.54	1/4	615.82	1/4	272.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.84	1/2	1,296.11	1/2	952.38	1/2	608.66	1/2	264.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,632.68	3/4	1,288.95	3/4	945.22	3/4	601.50	3/4	257.77	3/4		3/4		3/4		3/4		3/4	
8	1,625.52	8	1,281.79	8	938.06	8	594.34	8	250.61	8		8		8		8		8	
1/4	1,618.36	1/4	1,274.63	1/4	930.90	1/4	587.17	1/4	243.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,611.20	1/2	1,267.47	1/2	923.74	1/2	580.01	1/2	236.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,604.04	3/4	1,260.31	3/4	916.58	3/4	572.85	3/4	229.12	3/4		3/4		3/4		3/4		3/4	
9	1,596.88	9	1,253.15	9	909.42	9	565.69	9	221.96	9		9		9		9		9	
1/4	1,589.71	1/4	1,245.98	1/4	902.26	1/4	558.53	1/4	214.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,582.55	1/2	1,238.82	1/2	895.10	1/2	551.37	1/2	207.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,575.39	3/4	1,231.66	3/4	887.94	3/4	544.21	3/4	200.48	3/4		3/4		3/4		3/4		3/4	
10	1,568.23	10	1,224.50	10	880.78	10	537.05	10	193.32	10		10		10		10		10	
1/4	1,561.07	1/4	1,217.34	1/4	873.61	1/4	529.88	1/4	186.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,553.91	1/2	1,210.18	1/2	866.45	1/2	522.72	1/2	179.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,546.75	3/4	1,203.02	3/4	859.29	3/4	515.56	3/4	171.84	3/4		3/4		3/4		3/4		3/4	
11	1,539.59	11	1,195.86	11	852.13	11	508.40	11	164.68	11		11		11		11		11	
1/4	1,532.42	1/4	1,188.70	1/4	844.97	1/4	501.24	1/4	157.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,525.26	1/2	1,181.54	1/2	837.81	1/2	494.08	1/2	150.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,518.10	3/4	1,174.38	3/4	830.65	3/4	486.92	3/4	143.19	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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



BARGE "MM 138"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	4,906.96	0	4,617.92	0	4,275.09	0	3,931.36	0	3,587.63	0	3,243.90	0	2,900.18	0	2,556.45	0	2,212.72	
1/4	1/4	4,904.58	1/4	4,610.81	1/4	4,267.93	1/4	3,924.20	1/4	3,580.47	1/4	3,236.74	1/4	2,893.02	1/4	2,549.29	1/4	2,205.56	
1/2	1/2	4,902.19	1/2	4,603.70	1/2	4,260.77	1/2	3,917.04	1/2	3,573.31	1/2	3,229.58	1/2	2,885.86	1/2	2,542.13	1/2	2,198.40	
3/4	3/4	4,899.81	3/4	4,596.58	3/4	4,253.60	3/4	3,909.88	3/4	3,566.15	3/4	3,222.42	3/4	2,878.69	3/4	2,534.96	3/4	2,191.24	
1	1	4,897.42	1	4,589.47	1	4,246.44	1	3,902.72	1	3,558.99	1	3,215.26	1	2,871.53	1	2,527.80	1	2,184.08	
1/4	1/4	4,893.98	1/4	4,582.36	1/4	4,239.28	1/4	3,895.56	1/4	3,551.83	1/4	3,208.10	1/4	2,864.37	1/4	2,520.64	1/4	2,176.92	
1/2	1/2	4,890.53	1/2	4,575.25	1/2	4,232.12	1/2	3,888.40	1/2	3,544.67	1/2	3,200.94	1/2	2,857.21	1/2	2,513.48	1/2	2,169.76	
3/4	3/4	4,887.09	3/4	4,568.14	3/4	4,224.96	3/4	3,881.23	3/4	3,537.50	3/4	3,193.78	3/4	2,850.05	3/4	2,506.32	3/4	2,162.59	
2	2	4,883.64	2	4,561.03	2	4,217.80	2	3,874.07	2	3,530.34	2	3,186.62	2	2,842.89	2	2,499.16	2	2,155.43	
1/4	1/4	4,879.14	1/4	4,553.92	1/4	4,210.64	1/4	3,866.91	1/4	3,523.18	1/4	3,179.46	1/4	2,835.73	1/4	2,492.00	1/4	2,148.27	
1/2	1/2	4,874.63	1/2	4,546.81	1/2	4,203.48	1/2	3,859.75	1/2	3,516.02	1/2	3,172.30	1/2	2,828.57	1/2	2,484.84	1/2	2,141.11	
3/4	3/4	4,870.13	3/4	4,539.69	3/4	4,196.32	3/4	3,852.59	3/4	3,508.86	3/4	3,165.13	3/4	2,821.40	3/4	2,477.68	3/4	2,133.95	
3	3	4,865.62	3	4,532.58	3	4,189.16	3	3,845.43	3	3,501.70	3	3,157.97	3	2,814.24	3	2,470.52	3	2,126.79	
1/4	1/4	4,860.05	1/4	4,525.47	1/4	4,182.00	1/4	3,838.27	1/4	3,494.54	1/4	3,150.81	1/4	2,807.08	1/4	2,463.36	1/4	2,119.63	
1/2	1/2	4,854.48	1/2	4,518.36	1/2	4,174.84	1/2	3,831.11	1/2	3,487.38	1/2	3,143.65	1/2	2,799.92	1/2	2,456.20	1/2	2,112.47	
3/4	3/4	4,848.91	3/4	4,511.25	3/4	4,167.67	3/4	3,823.94	3/4	3,480.22	3/4	3,136.49	3/4	2,792.76	3/4	2,449.03	3/4	2,105.30	
4	4	4,843.34	4	4,504.14	4	4,160.51	4	3,816.78	4	3,473.06	4	3,129.33	4	2,785.60	4	2,441.87	4	2,098.14	
1/4	1/4	4,836.76	1/4	4,497.01	1/4	4,153.35	1/4	3,809.62	1/4	3,465.90	1/4	3,122.17	1/4	2,778.44	1/4	2,434.71	1/4	2,090.98	
1/2	1/2	4,830.18	1/2	4,489.87	1/2	4,146.19	1/2	3,802.46	1/2	3,458.74	1/2	3,115.01	1/2	2,771.28	1/2	2,427.55	1/2	2,083.82	
3/4	3/4	4,823.60	3/4	4,482.74	3/4	4,139.03	3/4	3,795.30	3/4	3,451.57	3/4	3,107.84	3/4	2,764.12	3/4	2,420.39	3/4	2,076.66	
5	5	4,817.02	5	4,475.60	5	4,131.87	5	3,788.14	5	3,444.41	5	3,100.68	5	2,756.96	5	2,413.23	5	2,069.50	
1/4	1/4	4,809.91	1/4	4,468.44	1/4	4,124.71	1/4	3,780.98	1/4	3,437.25	1/4	3,093.52	1/4	2,749.80	1/4	2,406.07	1/4	2,062.34	
1/2	1/2	4,802.80	1/2	4,461.28	1/2	4,117.55	1/2	3,773.82	1/2	3,430.09	1/2	3,086.36	1/2	2,742.64	1/2	2,398.91	1/2	2,055.18	
3/4	3/4	4,795.69	3/4	4,454.11	3/4	4,110.38	3/4	3,766.66	3/4	3,422.93	3/4	3,079.20	3/4	2,735.47	3/4	2,391.74	3/4	2,048.02	
6	6	4,788.58	6	4,446.95	6	4,103.22	6	3,759.50	6	3,415.77	6	3,072.04	6	2,728.31	6	2,384.58	6	2,040.86	
1/4	1/4	4,781.47	1/4	4,439.79	1/4	4,096.06	1/4	3,752.34	1/4	3,408.61	1/4	3,064.88	1/4	2,721.15	1/4	2,377.42	1/4	2,033.70	
1/2	1/2	4,774.36	1/2	4,432.63	1/2	4,088.90	1/2	3,745.18	1/2	3,401.45	1/2	3,057.72	1/2	2,713.99	1/2	2,370.26	1/2	2,026.54	
3/4	3/4	4,767.25	3/4	4,425.47	3/4	4,081.74	3/4	3,738.01	3/4	3,394.28	3/4	3,050.56	3/4	2,706.83	3/4	2,363.10	3/4	2,019.37	
7	7	4,760.14	7	4,418.31	7	4,074.58	7	3,730.85	7	3,387.12	7	3,043.40	7	2,699.67	7	2,355.94	7	2,012.21	
1/4	1/4	4,753.03	1/4	4,411.15	1/4	4,067.42	1/4	3,723.69	1/4	3,379.96	1/4	3,036.24	1/4	2,692.51	1/4	2,348.78	1/4	2,005.05	
1/2	1/2	4,745.92	1/2	4,403.99	1/2	4,060.26	1/2	3,716.53	1/2	3,372.80	1/2	3,029.08	1/2	2,685.35	1/2	2,341.62	1/2	1,997.89	
3/4	3/4	4,738.80	3/4	4,396.82	3/4	4,053.10	3/4	3,709.37	3/4	3,365.64	3/4	3,021.91	3/4	2,678.18	3/4	2,334.46	3/4	1,990.73	
8	8	4,731.69	8	4,389.66	8	4,045.94	8	3,702.21	8	3,358.48	8	3,014.75	8	2,671.02	8	2,327.30	8	1,983.57	
1/4	1/4	4,724.58	1/4	4,382.50	1/4	4,038.78	1/4	3,695.05	1/4	3,351.32	1/4	3,007.59	1/4	2,663.86	1/4	2,320.14	1/4	1,976.41	
1/2	1/2	4,717.47	1/2	4,375.34	1/2	4,031.62	1/2	3,687.89	1/2	3,344.16	1/2	3,000.43	1/2	2,656.70	1/2	2,312.98	1/2	1,969.25	
3/4	3/4	4,710.36	3/4	4,368.18	3/4	4,024.45	3/4	3,680.72	3/4	3,337.00	3/4	2,993.27	3/4	2,649.54	3/4	2,305.81	3/4	1,962.08	
9	9	4,703.25	9	4,361.02	9	4,017.29	9	3,673.56	9	3,329.84	9	2,986.11	9	2,642.38	9	2,298.65	9	1,954.92	
1/4	1/4	4,696.14	1/4	4,353.86	1/4	4,010.13	1/4	3,666.40	1/4	3,322.68	1/4	2,978.95	1/4	2,635.22	1/4	2,291.49	1/4	1,947.76	
1/2	1/2	4,689.03	1/2	4,346.70	1/2	4,002.97	1/2	3,659.24	1/2	3,315.52	1/2	2,971.79	1/2	2,628.06	1/2	2,284.33	1/2	1,940.60	
3/4	3/4	4,681.91	3/4	4,339.54	3/4	3,995.81	3/4	3,652.08	3/4	3,308.35	3/4	2,964.62	3/4	2,620.90	3/4	2,277.17	3/4	1,933.44	
10	10	4,674.80	10	4,332.38	10	3,988.65	10	3,644.92	10	3,301.19	10	2,957.46	10	2,613.74	10	2,270.01	10	1,926.28	
1/4	4,913.43	1/4	4,667.69	1/4	4,325.22	1/4	3,981.49	1/4	3,637.76	1/4	3,294.03	1/4	2,950.30	1/4	2,606.58	1/4	2,262.85	1/4	1,919.12
1/2	4,913.04	1/2	4,660.58	1/2	4,318.06	1/2	3,974.33	1/2	3,630.60	1/2	3,286.87	1/2	2,943.14	1/2	2,599.42	1/2	2,255.69	1/2	1,911.96
3/4	4,912.64	3/4	4,653.47	3/4	4,310.89	3/4	3,967.16	3/4	3,623.44	3/4	3,279.71	3/4	2,935.98	3/4	2,592.25	3/4	2,248.52	3/4	1,904.80
11	4,912.25	11	4,646.36	11	4,303.73	11	3,960.00	11	3,616.28	11	3,272.55	11	2,928.82	11	2,585.09	11	2,241.36	11	1,897.64
1/4	4,910.93	1/4	4,639.25	1/4	4,296.57	1/4	3,952.84	1/4	3,609.12	1/4	3,265.39	1/4	2,921.66	1/4	2,577.93	1/4	2,234.20	1/4	1,890.48
1/2	4,909.61	1/2	4,632.14	1/2	4,289.41	1/2	3,945.68	1/2	3,601.96	1/2	3,258.23	1/2	2,914.50	1/2	2,570.77	1/2	2,227.04	1/2	1,883.32
3/4	4,908.28	3/4	4,625.03	3/4	4,282.25	3/4	3,938.52	3/4	3,594.79	3/4	3,251.06	3/4	2,907.34	3/4	2,563.61	3/4	2,219.88	3/4	1,876.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10-06" OFF CENTERLINE AND 41-06" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,868.99	0	1,525.26	0	1,181.54	0	837.81	0	494.08	0	150.35	0		0		0		0	
1/4	1,861.83	1/4	1,518.10	1/4	1,174.38	1/4	830.65	1/4	486.92	1/4	143.19	1/4		1/4		1/4		1/4	
1/2	1,854.67	1/2	1,510.94	1/2	1,167.22	1/2	823.49	1/2	479.76	1/2	136.03	1/2		1/2		1/2		1/2	
3/4	1,847.51	3/4	1,503.78	3/4	1,160.05	3/4	816.32	3/4	472.60	3/4	128.87	3/4		3/4		3/4		3/4	
1	1,840.35	1	1,496.62	1	1,152.89	1	809.16	1	465.44	1	121.71	1		1		1		1	
1/4	1,833.19	1/4	1,489.46	1/4	1,145.73	1/4	802.00	1/4	458.28	1/4	114.55	1/4		1/4		1/4		1/4	
1/2	1,826.03	1/2	1,482.30	1/2	1,138.57	1/2	794.84	1/2	451.12	1/2	107.39	1/2		1/2		1/2		1/2	
3/4	1,818.86	3/4	1,475.14	3/4	1,131.41	3/4	787.68	3/4	443.95	3/4	100.22	3/4		3/4		3/4		3/4	
2	1,811.70	2	1,467.98	2	1,124.25	2	780.52	2	436.79	2	93.06	2		2		2		2	
1/4	1,804.54	1/4	1,460.82	1/4	1,117.09	1/4	773.36	1/4	429.63	1/4	85.90	1/4		1/4		1/4		1/4	
1/2	1,797.38	1/2	1,453.66	1/2	1,109.93	1/2	766.20	1/2	422.47	1/2	78.74	1/2		1/2		1/2		1/2	
3/4	1,790.22	3/4	1,446.49	3/4	1,102.76	3/4	759.04	3/4	415.31	3/4	71.58	3/4		3/4		3/4		3/4	
3	1,783.06	3	1,439.33	3	1,095.60	3	751.88	3	408.15	3	64.42	3		3		3		3	
1/4	1,775.90	1/4	1,432.17	1/4	1,088.44	1/4	744.72	1/4	400.99	1/4	57.52	1/4		1/4		1/4		1/4	
1/2	1,768.74	1/2	1,425.01	1/2	1,081.28	1/2	737.56	1/2	393.83	1/2	50.61	1/2		1/2		1/2		1/2	
3/4	1,761.58	3/4	1,417.85	3/4	1,074.12	3/4	730.39	3/4	386.66	3/4	43.71	3/4		3/4		3/4		3/4	
4	1,754.42	4	1,410.69	4	1,066.96	4	723.23	4	379.50	4	36.80	4		4		4		4	
1/4	1,747.31	1/4	1,403.53	1/4	1,059.80	1/4	716.07	1/4	374.84	1/4	31.69	1/4		1/4		1/4		1/4	
1/2	1,740.21	1/2	1,396.37	1/2	1,052.64	1/2	708.91	1/2	370.18	1/2	26.58	1/2		1/2		1/2		1/2	
3/4	1,733.10	3/4	1,389.20	3/4	1,045.48	3/4	701.75	3/4	365.52	3/4	21.46	3/4		3/4		3/4		3/4	
5	1,725.99	5	1,382.04	5	1,038.32	5	694.59	5	360.86	5	16.35	5		5		5		5	
1/4	1,718.78	1/4	1,374.88	1/4	1,031.16	1/4	687.43	1/4	351.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,711.56	1/2	1,367.72	1/2	1,024.00	1/2	680.27	1/2	341.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.35	3/4	1,360.56	3/4	1,016.83	3/4	673.10	3/4	331.88	3/4		3/4		3/4		3/4		3/4	
6	1,697.13	6	1,353.40	6	1,009.67	6	665.94	6	322.22	6		6		6		6		6	
1/4	1,689.97	1/4	1,346.24	1/4	1,002.51	1/4	658.78	1/4	315.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,682.81	1/2	1,339.08	1/2	995.35	1/2	651.62	1/2	307.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,675.64	3/4	1,331.92	3/4	988.19	3/4	644.46	3/4	300.73	3/4		3/4		3/4		3/4		3/4	
7	1,668.48	7	1,324.76	7	981.03	7	637.30	7	293.57	7		7		7		7		7	
1/4	1,661.32	1/4	1,317.60	1/4	973.87	1/4	630.14	1/4	286.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,654.16	1/2	1,310.44	1/2	966.71	1/2	622.98	1/2	279.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,647.00	3/4	1,303.27	3/4	959.54	3/4	615.82	3/4	272.09	3/4		3/4		3/4		3/4		3/4	
8	1,639.84	8	1,296.11	8	952.38	8	608.66	8	264.93	8		8		8		8		8	
1/4	1,632.68	1/4	1,288.95	1/4	945.22	1/4	601.50	1/4	257.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,625.52	1/2	1,281.79	1/2	938.06	1/2	594.34	1/2	250.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,618.36	3/4	1,274.63	3/4	930.90	3/4	587.17	3/4	243.44	3/4		3/4		3/4		3/4		3/4	
9	1,611.20	9	1,267.47	9	923.74	9	580.01	9	236.28	9		9		9		9		9	
1/4	1,604.04	1/4	1,260.31	1/4	916.58	1/4	572.85	1/4	229.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,596.88	1/2	1,253.15	1/2	909.42	1/2	565.69	1/2	221.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,589.71	3/4	1,245.98	3/4	902.26	3/4	558.53	3/4	214.80	3/4		3/4		3/4		3/4		3/4	
10	1,582.55	10	1,238.82	10	895.10	10	551.37	10	207.64	10		10		10		10		10	
1/4	1,575.39	1/4	1,231.66	1/4	887.94	1/4	544.21	1/4	200.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,568.23	1/2	1,224.50	1/2	880.78	1/2	537.05	1/2	193.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,561.07	3/4	1,217.34	3/4	873.61	3/4	529.88	3/4	186.16	3/4		3/4		3/4		3/4		3/4	
11	1,553.91	11	1,210.18	11	866.45	11	522.72	11	179.00	11		11		11		11		11	
1/4	1,546.75	1/4	1,203.02	1/4	859.29	1/4	515.56	1/4	171.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,539.59	1/2	1,195.86	1/2	852.13	1/2	508.40	1/2	164.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,532.42	3/4	1,188.70	3/4	844.97	3/4	501.24	3/4	157.51	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "MM 138"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	4,691.00	0	4,463.85	0	4,211.13	0	3,958.41	0	3,705.69	0	3,405.26	0	3,040.99	0	2,676.72	0	2,312.07	
1/4	1/4	4,689.05	1/4	4,458.59	1/4	4,205.87	1/4	3,953.15	1/4	3,700.43	1/4	3,397.67	1/4	3,033.40	1/4	2,669.13	1/4	2,304.36	
1/2	1/2	4,686.33	1/2	4,453.32	1/2	4,200.60	1/2	3,947.88	1/2	3,695.16	1/2	3,390.08	1/2	3,025.81	1/2	2,661.54	1/2	2,296.89	
3/4	3/4	4,683.60	3/4	4,448.06	3/4	4,195.34	3/4	3,942.62	3/4	3,689.90	3/4	3,382.49	3/4	3,018.22	3/4	2,653.95	3/4	2,289.43	
1	1	4,680.88	1	4,442.79	1	4,190.07	1	3,937.35	1	3,684.63	1	3,374.91	1	3,010.64	1	2,646.36	1	2,281.96	
1/4	1/4	4,678.15	1/4	4,437.53	1/4	4,184.81	1/4	3,932.09	1/4	3,679.37	1/4	3,367.32	1/4	3,003.05	1/4	2,638.77	1/4	2,274.50	
1/2	1/2	4,674.64	1/2	4,432.26	1/2	4,179.54	1/2	3,926.82	1/2	3,674.10	1/2	3,359.73	1/2	2,995.46	1/2	2,631.18	1/2	2,266.91	
3/4	3/4	4,671.14	3/4	4,427.00	3/4	4,174.28	3/4	3,921.56	3/4	3,668.84	3/4	3,352.14	3/4	2,987.87	3/4	2,623.59	3/4	2,259.32	
2	2	4,667.63	2	4,421.73	2	4,169.01	2	3,916.29	2	3,663.57	2	3,344.55	2	2,980.28	2	2,616.01	2	2,251.74	
1/4	1/4	4,664.12	1/4	4,416.47	1/4	4,163.75	1/4	3,911.03	1/4	3,658.31	1/4	3,336.96	1/4	2,972.69	1/4	2,608.42	1/4	2,244.15	
1/2	1/2	4,659.83	1/2	4,411.20	1/2	4,158.48	1/2	3,905.76	1/2	3,653.04	1/2	3,329.37	1/2	2,965.10	1/2	2,600.83	1/2	2,236.56	
3/4	3/4	4,655.54	3/4	4,405.94	3/4	4,153.22	3/4	3,900.50	3/4	3,647.78	3/4	3,321.78	3/4	2,957.51	3/4	2,593.24	3/4	2,228.97	
3	3	4,651.25	3	4,400.67	3	4,147.95	3	3,895.23	3	3,642.51	3	3,314.20	3	2,949.92	3	2,585.65	3	2,221.38	
1/4	1/4	4,646.96	1/4	4,395.41	1/4	4,142.69	1/4	3,889.97	1/4	3,637.25	1/4	3,306.61	1/4	2,942.33	1/4	2,578.06	1/4	2,213.79	
1/2	1/2	4,641.99	1/2	4,390.14	1/2	4,137.42	1/2	3,884.70	1/2	3,631.89	1/2	3,299.02	1/2	2,934.74	1/2	2,570.47	1/2	2,206.20	
3/4	3/4	4,637.02	3/4	4,384.88	3/4	4,132.16	3/4	3,879.44	3/4	3,626.52	3/4	3,291.43	3/4	2,927.15	3/4	2,562.88	3/4	2,198.61	
4	4	4,632.04	4	4,379.61	4	4,126.89	4	3,874.17	4	3,621.16	4	3,283.84	4	2,919.57	4	2,555.30	4	2,191.02	
1/4	1/4	4,627.07	1/4	4,374.35	1/4	4,121.63	1/4	3,868.91	1/4	3,615.80	1/4	3,276.25	1/4	2,911.98	1/4	2,547.71	1/4	2,183.43	
1/2	1/2	4,621.81	1/2	4,369.08	1/2	4,116.36	1/2	3,863.64	1/2	3,610.10	1/2	3,268.66	1/2	2,904.39	1/2	2,540.12	1/2	2,175.84	
3/4	3/4	4,616.54	3/4	4,363.82	3/4	4,111.10	3/4	3,858.38	3/4	3,604.41	3/4	3,261.07	3/4	2,896.80	3/4	2,532.53	3/4	2,168.25	
5	5	4,611.28	5	4,358.55	5	4,105.83	5	3,853.11	5	3,598.71	5	3,253.48	5	2,889.21	5	2,524.94	5	2,160.67	
1/4	1/4	4,606.01	1/4	4,353.29	1/4	4,100.57	1/4	3,847.85	1/4	3,593.02	1/4	3,245.89	1/4	2,881.62	1/4	2,517.35	1/4	2,153.08	
1/2	1/2	4,600.75	1/2	4,348.02	1/2	4,095.30	1/2	3,842.58	1/2	3,588.98	1/2	3,238.30	1/2	2,874.03	1/2	2,509.76	1/2	2,145.49	
3/4	3/4	4,595.48	3/4	4,342.76	3/4	4,090.04	3/4	3,837.32	3/4	3,580.93	3/4	3,230.71	3/4	2,866.44	3/4	2,502.17	3/4	2,137.90	
6	6	4,590.22	6	4,337.49	6	4,084.77	6	3,832.05	6	3,574.89	6	3,223.13	6	2,858.86	6	2,494.58	6	2,130.31	
1/4	1/4	4,584.95	1/4	4,332.23	1/4	4,079.51	1/4	3,826.79	1/4	3,568.85	1/4	3,215.54	1/4	2,851.27	1/4	2,486.99	1/4	2,122.72	
1/2	1/2	4,579.69	1/2	4,326.96	1/2	4,074.24	1/2	3,821.52	1/2	3,562.46	1/2	3,207.95	1/2	2,843.68	1/2	2,479.40	1/2	2,115.13	
3/4	3/4	4,574.42	3/4	4,321.70	3/4	4,068.98	3/4	3,816.26	3/4	3,556.08	3/4	3,200.36	3/4	2,836.09	3/4	2,471.81	3/4	2,107.54	
7	7	4,569.16	7	4,316.43	7	4,063.71	7	3,810.99	7	3,549.69	7	3,192.77	7	2,828.50	7	2,464.23	7	2,099.96	
1/4	1/4	4,563.89	1/4	4,311.17	1/4	4,058.45	1/4	3,805.73	1/4	3,543.31	1/4	3,185.18	1/4	2,820.91	1/4	2,456.64	1/4	2,092.37	
1/2	1/2	4,558.63	1/2	4,305.90	1/2	4,053.18	1/2	3,800.46	1/2	3,536.58	1/2	3,177.59	1/2	2,813.32	1/2	2,449.05	1/2	2,084.78	
3/4	3/4	4,553.36	3/4	4,300.64	3/4	4,047.92	3/4	3,795.20	3/4	3,529.84	3/4	3,170.00	3/4	2,805.73	3/4	2,441.46	3/4	2,077.19	
8	8	4,548.10	8	4,295.37	8	4,042.65	8	3,789.93	8	3,523.11	8	3,162.42	8	2,798.14	8	2,433.87	8	2,069.60	
1/4	1/4	4,542.83	1/4	4,290.11	1/4	4,037.39	1/4	3,784.67	1/4	3,516.38	1/4	3,154.83	1/4	2,790.55	1/4	2,426.28	1/4	2,062.01	
1/2	1/2	4,537.57	1/2	4,284.84	1/2	4,032.12	1/2	3,779.40	1/2	3,509.30	1/2	3,147.24	1/2	2,782.96	1/2	2,418.69	1/2	2,054.42	
3/4	3/4	4,532.30	3/4	4,279.58	3/4	4,026.86	3/4	3,774.14	3/4	3,502.22	3/4	3,139.65	3/4	2,775.37	3/4	2,411.10	3/4	2,046.83	
9	9	4,527.04	9	4,274.31	9	4,021.59	9	3,768.87	9	3,495.15	9	3,132.06	9	2,767.79	9	2,403.52	9	2,039.24	
1/4	4,703.35	1/4	4,521.77	1/4	4,269.05	1/4	4,016.33	1/4	3,763.61	1/4	3,488.07	1/4	3,124.47	1/4	2,760.20	1/4	2,395.93	1/4	2,031.65
1/2	4,702.89	1/2	4,516.50	1/2	4,263.78	1/2	4,011.06	1/2	3,758.34	1/2	3,480.65	1/2	3,116.88	1/2	2,752.61	1/2	2,388.34	1/2	2,024.06
3/4	4,702.43	3/4	4,511.24	3/4	4,258.52	3/4	4,005.80	3/4	3,753.08	3/4	3,473.23	3/4	3,109.29	3/4	2,745.02	3/4	2,380.75	3/4	2,016.47
10	4,701.97	10	4,505.97	10	4,253.25	10	4,000.53	10	3,747.81	10	3,465.81	10	3,101.70	10	2,737.43	10	2,373.16	10	2,008.89
1/4	4,701.51	1/4	4,500.71	1/4	4,247.99	1/4	3,995.27	1/4	3,742.55	1/4	3,458.39	1/4	3,094.11	1/4	2,729.84	1/4	2,365.57	1/4	2,001.30
1/2	4,700.35	1/2	4,495.44	1/2	4,242.72	1/2	3,990.00	1/2	3,737.28	1/2	3,450.80	1/2	3,086.52	1/2	2,722.25	1/2	2,357.98	1/2	1,993.71
3/4	4,699.18	3/4	4,490.18	3/4	4,237.46	3/4	3,984.74	3/4	3,732.02	3/4	3,443.21	3/4	3,078.93	3/4	2,714.66	3/4	2,350.39	3/4	1,986.12
11	4,698.02	11	4,484.91	11	4,232.19	11	3,979.47	11	3,726.75	11	3,435.62	11	3,071.35	11	2,707.08	11	2,342.80	11	1,978.53
1/4	4,696.85	1/4	4,479.65	1/4	4,226.93	1/4	3,974.21	1/4	3,721.49	1/4	3,428.03	1/4	3,063.76	1/4	2,699.49	1/4	2,335.21	1/4	1,970.94
1/2	4,694.90	1/2	4,474.38	1/2	4,221.66	1/2	3,968.94	1/2	3,716.22	1/2	3,420.44	1/2	3,056.17	1/2	2,691.90	1/2	2,327.50	1/2	1,963.35
3/4	4,692.95	3/4	4,469.12	3/4	4,216.40	3/4	3,963.68	3/4	3,710.96	3/4	3,412.85	3/4	3,048.58	3/4	2,684.31	3/4	2,319.78	3/4	1,955.76

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10-06" 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 138"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,948.18	0	1,583.90	0	1,219.63	0	856.20	0	492.88	0	128.85	0		0		0		0	
1/4	1,940.59	1/4	1,576.31	1/4	1,212.04	1/4	848.65	1/4	485.30	1/4	121.27	1/4		1/4		1/4		1/4	
1/2	1,933.00	1/2	1,568.72	1/2	1,204.45	1/2	841.09	1/2	477.72	1/2	113.69	1/2		1/2		1/2		1/2	
3/4	1,925.41	3/4	1,561.13	3/4	1,196.86	3/4	833.54	3/4	470.13	3/4	106.10	3/4		3/4		3/4		3/4	
1	1,917.82	1	1,553.55	1	1,189.28	1	825.98	1	462.55	1	98.52	1		1		1		1	
1/4	1,910.23	1/4	1,545.96	1/4	1,181.69	1/4	818.43	1/4	454.97	1/4	90.94	1/4		1/4		1/4		1/4	
1/2	1,902.64	1/2	1,538.37	1/2	1,174.10	1/2	810.87	1/2	447.38	1/2	83.35	1/2		1/2		1/2		1/2	
3/4	1,895.05	3/4	1,530.78	3/4	1,166.51	3/4	803.32	3/4	439.80	3/4	75.77	3/4		3/4		3/4		3/4	
2	1,887.46	2	1,523.19	2	1,158.92	2	795.76	2	432.21	2	68.18	2		2		2		2	
1/4	1,879.87	1/4	1,515.60	1/4	1,151.33	1/4	788.21	1/4	424.63	1/4	60.60	1/4		1/4		1/4		1/4	
1/2	1,872.28	1/2	1,508.01	1/2	1,143.74	1/2	780.66	1/2	417.05	1/2	53.83	1/2		1/2		1/2		1/2	
3/4	1,864.69	3/4	1,500.42	3/4	1,136.15	3/4	773.10	3/4	409.46	3/4	47.06	3/4		3/4		3/4		3/4	
3	1,857.11	3	1,492.84	3	1,128.57	3	765.55	3	401.88	3	40.29	3		3		3		3	
1/4	1,849.52	1/4	1,485.25	1/4	1,120.98	1/4	758.00	1/4	394.30	1/4	33.52	1/4		1/4		1/4		1/4	
1/2	1,841.93	1/2	1,477.66	1/2	1,113.39	1/2	750.44	1/2	386.71	1/2	26.85	1/2		1/2		1/2		1/2	
3/4	1,834.34	3/4	1,470.07	3/4	1,105.80	3/4	742.89	3/4	379.13	3/4	23.77	3/4		3/4		3/4		3/4	
4	1,826.75	4	1,462.48	4	1,098.21	4	735.33	4	371.54	4	18.90	4		4		4		4	
1/4	1,819.16	1/4	1,454.89	1/4	1,090.62	1/4	727.78	1/4	363.96	1/4	14.03	1/4		1/4		1/4		1/4	
1/2	1,811.57	1/2	1,447.30	1/2	1,083.03	1/2	720.23	1/2	356.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,803.98	3/4	1,439.71	3/4	1,075.44	3/4	712.67	3/4	348.79	3/4		3/4		3/4		3/4		3/4	
5	1,796.40	5	1,432.12	5	1,067.85	5	705.12	5	341.20	5		5		5		5		5	
1/4	1,788.81	1/4	1,424.53	1/4	1,060.26	1/4	697.57	1/4	333.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,781.22	1/2	1,416.94	1/2	1,052.68	1/2	690.01	1/2	326.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,773.63	3/4	1,409.35	3/4	1,045.10	3/4	682.44	3/4	318.45	3/4		3/4		3/4		3/4		3/4	
6	1,766.04	6	1,401.77	6	1,037.52	6	674.88	6	310.87	6		6		6		6		6	
1/4	1,758.45	1/4	1,394.18	1/4	1,029.94	1/4	667.32	1/4	303.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,750.86	1/2	1,386.59	1/2	1,022.39	1/2	659.73	1/2	295.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.27	3/4	1,379.00	3/4	1,014.83	3/4	652.15	3/4	288.12	3/4		3/4		3/4		3/4		3/4	
7	1,735.68	7	1,371.41	7	1,007.28	7	644.56	7	280.53	7		7		7		7		7	
1/4	1,728.09	1/4	1,363.82	1/4	999.73	1/4	636.98	1/4	272.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,720.50	1/2	1,356.23	1/2	992.17	1/2	629.40	1/2	265.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,712.91	3/4	1,348.64	3/4	984.62	3/4	621.81	3/4	257.78	3/4		3/4		3/4		3/4		3/4	
8	1,705.33	8	1,341.06	8	977.06	8	614.23	8	250.20	8		8		8		8		8	
1/4	1,697.74	1/4	1,333.47	1/4	969.51	1/4	606.65	1/4	242.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,690.15	1/2	1,325.88	1/2	961.95	1/2	599.06	1/2	235.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,682.56	3/4	1,318.29	3/4	954.40	3/4	591.48	3/4	227.45	3/4		3/4		3/4		3/4		3/4	
9	1,674.97	9	1,310.70	9	946.84	9	583.89	9	219.86	9		9		9		9		9	
1/4	1,667.38	1/4	1,303.11	1/4	939.29	1/4	576.31	1/4	212.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,659.79	1/2	1,295.52	1/2	931.74	1/2	568.73	1/2	204.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,652.20	3/4	1,287.93	3/4	924.18	3/4	561.14	3/4	197.11	3/4		3/4		3/4		3/4		3/4	
10	1,644.62	10	1,280.35	10	916.63	10	553.56	10	189.52	10		10		10		10		10	
1/4	1,637.03	1/4	1,272.76	1/4	909.08	1/4	545.98	1/4	181.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,629.44	1/2	1,265.17	1/2	901.52	1/2	538.39	1/2	174.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,621.85	3/4	1,257.58	3/4	893.97	3/4	530.81	3/4	166.77	3/4		3/4		3/4		3/4		3/4	
11	1,614.26	11	1,249.99	11	886.41	11	523.22	11	159.19	11		11		11		11		11	
1/4	1,606.67	1/4	1,242.40	1/4	878.86	1/4	515.64	1/4	151.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,599.08	1/2	1,234.81	1/2	871.31	1/2	508.05	1/2	144.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,591.49	3/4	1,227.22	3/4	863.75	3/4	500.47	3/4	136.44	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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



BARGE "MM 138"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	4,694.90	0	4,474.38	0	4,221.66	0	3,968.94	0	3,716.22	0	3,420.44	0	3,056.17	0	2,691.90	0	2,327.50	
1/4	1/4	4,692.95	1/4	4,469.12	1/4	4,216.40	1/4	3,963.68	1/4	3,710.96	1/4	3,412.85	1/4	3,048.58	1/4	2,684.31	1/4	2,319.78	
1/2	1/2	4,691.00	1/2	4,463.85	1/2	4,211.13	1/2	3,958.41	1/2	3,705.69	1/2	3,405.26	1/2	3,040.99	1/2	2,676.72	1/2	2,312.07	
3/4	3/4	4,689.05	3/4	4,458.59	3/4	4,205.87	3/4	3,953.15	3/4	3,700.43	3/4	3,397.67	3/4	3,033.40	3/4	2,669.13	3/4	2,304.36	
1	1	4,686.33	1	4,453.32	1	4,200.60	1	3,947.88	1	3,695.16	1	3,390.08	1	3,025.81	1	2,661.54	1	2,296.89	
1/4	1/4	4,683.60	1/4	4,448.06	1/4	4,195.34	1/4	3,942.62	1/4	3,689.90	1/4	3,382.49	1/4	3,018.22	1/4	2,653.95	1/4	2,289.43	
1/2	1/2	4,680.88	1/2	4,442.79	1/2	4,190.07	1/2	3,937.35	1/2	3,684.63	1/2	3,374.91	1/2	3,010.64	1/2	2,646.36	1/2	2,281.96	
3/4	3/4	4,678.15	3/4	4,437.53	3/4	4,184.81	3/4	3,932.09	3/4	3,679.37	3/4	3,367.32	3/4	3,003.05	3/4	2,638.77	3/4	2,274.50	
2	2	4,674.64	2	4,432.26	2	4,179.54	2	3,926.82	2	3,674.10	2	3,359.73	2	2,995.46	2	2,631.18	2	2,266.91	
1/4	1/4	4,671.14	1/4	4,427.00	1/4	4,174.28	1/4	3,921.56	1/4	3,668.84	1/4	3,352.14	1/4	2,987.87	1/4	2,623.59	1/4	2,259.32	
1/2	1/2	4,667.63	1/2	4,421.73	1/2	4,169.01	1/2	3,916.29	1/2	3,663.57	1/2	3,344.55	1/2	2,980.28	1/2	2,616.01	1/2	2,251.74	
3/4	3/4	4,664.12	3/4	4,416.47	3/4	4,163.75	3/4	3,911.03	3/4	3,658.31	3/4	3,336.96	3/4	2,972.69	3/4	2,608.42	3/4	2,244.15	
3	3	4,659.83	3	4,411.20	3	4,158.48	3	3,905.76	3	3,653.04	3	3,329.37	3	2,965.10	3	2,600.83	3	2,236.56	
1/4	1/4	4,655.54	1/4	4,405.94	1/4	4,153.22	1/4	3,900.50	1/4	3,647.78	1/4	3,321.78	1/4	2,957.51	1/4	2,593.24	1/4	2,228.97	
1/2	1/2	4,651.25	1/2	4,400.67	1/2	4,147.95	1/2	3,895.23	1/2	3,642.51	1/2	3,314.20	1/2	2,949.92	1/2	2,585.65	1/2	2,221.38	
3/4	3/4	4,646.96	3/4	4,395.41	3/4	4,142.69	3/4	3,889.97	3/4	3,637.25	3/4	3,306.61	3/4	2,942.33	3/4	2,578.06	3/4	2,213.79	
4	4	4,641.99	4	4,390.14	4	4,137.42	4	3,884.70	4	3,631.89	4	3,299.02	4	2,934.74	4	2,570.47	4	2,206.20	
1/4	1/4	4,637.02	1/4	4,384.88	1/4	4,132.16	1/4	3,879.44	1/4	3,626.52	1/4	3,291.43	1/4	2,927.15	1/4	2,562.88	1/4	2,198.61	
1/2	1/2	4,632.04	1/2	4,379.61	1/2	4,126.89	1/2	3,874.17	1/2	3,621.16	1/2	3,283.84	1/2	2,919.57	1/2	2,555.30	1/2	2,191.02	
3/4	3/4	4,627.07	3/4	4,374.35	3/4	4,121.63	3/4	3,868.91	3/4	3,615.80	3/4	3,276.25	3/4	2,911.98	3/4	2,547.71	3/4	2,183.43	
5	5	4,621.81	5	4,369.08	5	4,116.36	5	3,863.64	5	3,610.10	5	3,268.66	5	2,904.39	5	2,540.12	5	2,175.84	
1/4	1/4	4,616.54	1/4	4,363.82	1/4	4,111.10	1/4	3,858.38	1/4	3,604.41	1/4	3,261.07	1/4	2,896.80	1/4	2,532.53	1/4	2,168.25	
1/2	1/2	4,611.28	1/2	4,358.55	1/2	4,105.83	1/2	3,853.11	1/2	3,598.71	1/2	3,253.48	1/2	2,889.21	1/2	2,524.94	1/2	2,160.67	
3/4	3/4	4,606.01	3/4	4,353.29	3/4	4,100.57	3/4	3,847.85	3/4	3,593.02	3/4	3,245.89	3/4	2,881.62	3/4	2,517.35	3/4	2,153.08	
6	6	4,600.75	6	4,348.02	6	4,095.30	6	3,842.58	6	3,588.98	6	3,238.30	6	2,874.03	6	2,509.76	6	2,145.49	
1/4	1/4	4,595.48	1/4	4,342.76	1/4	4,090.04	1/4	3,837.32	1/4	3,580.93	1/4	3,230.71	1/4	2,866.44	1/4	2,502.17	1/4	2,137.90	
1/2	1/2	4,590.22	1/2	4,337.49	1/2	4,084.77	1/2	3,832.05	1/2	3,574.89	1/2	3,223.13	1/2	2,858.86	1/2	2,494.58	1/2	2,130.31	
3/4	3/4	4,584.95	3/4	4,332.23	3/4	4,079.51	3/4	3,826.79	3/4	3,568.85	3/4	3,215.54	3/4	2,851.27	3/4	2,486.99	3/4	2,122.72	
7	7	4,579.69	7	4,326.96	7	4,074.24	7	3,821.52	7	3,562.46	7	3,207.95	7	2,843.68	7	2,479.40	7	2,115.13	
1/4	1/4	4,574.42	1/4	4,321.70	1/4	4,068.98	1/4	3,816.26	1/4	3,556.08	1/4	3,200.36	1/4	2,836.09	1/4	2,471.81	1/4	2,107.54	
1/2	1/2	4,569.16	1/2	4,316.43	1/2	4,063.71	1/2	3,810.99	1/2	3,549.69	1/2	3,192.77	1/2	2,828.50	1/2	2,464.23	1/2	2,099.96	
3/4	3/4	4,563.89	3/4	4,311.17	3/4	4,058.45	3/4	3,805.73	3/4	3,543.31	3/4	3,185.18	3/4	2,820.91	3/4	2,456.64	3/4	2,092.37	
8	8	4,558.63	8	4,305.90	8	4,053.18	8	3,800.46	8	3,536.58	8	3,177.59	8	2,813.32	8	2,449.05	8	2,084.78	
1/4	1/4	4,553.36	1/4	4,300.64	1/4	4,047.92	1/4	3,795.20	1/4	3,529.84	1/4	3,170.00	1/4	2,805.73	1/4	2,441.46	1/4	2,077.19	
1/2	1/2	4,548.10	1/2	4,295.37	1/2	4,042.65	1/2	3,789.93	1/2	3,523.11	1/2	3,162.42	1/2	2,798.14	1/2	2,433.87	1/2	2,069.60	
3/4	3/4	4,542.83	3/4	4,290.11	3/4	4,037.39	3/4	3,784.67	3/4	3,516.38	3/4	3,154.83	3/4	2,790.55	3/4	2,426.28	3/4	2,062.01	
9	9	4,537.57	9	4,284.84	9	4,032.12	9	3,779.40	9	3,509.30	9	3,147.24	9	2,782.96	9	2,418.69	9	2,054.42	
1/4	1/4	4,532.30	1/4	4,279.58	1/4	4,026.86	1/4	3,774.14	1/4	3,502.22	1/4	3,139.65	1/4	2,775.37	1/4	2,411.10	1/4	2,046.83	
1/2	1/2	4,527.04	1/2	4,274.31	1/2	4,021.59	1/2	3,768.87	1/2	3,495.15	1/2	3,132.06	1/2	2,767.79	1/2	2,403.52	1/2	2,039.24	
3/4	4,703.35	3/4	4,521.77	3/4	4,269.05	3/4	4,016.33	3/4	3,763.61	3/4	3,488.07	3/4	3,124.47	3/4	2,760.20	3/4	2,395.93	3/4	2,031.65
10	4,702.89	10	4,516.50	10	4,263.78	10	4,011.06	10	3,758.34	10	3,480.65	10	3,116.88	10	2,752.61	10	2,388.34	10	2,024.06
1/4	4,702.43	1/4	4,511.24	1/4	4,258.52	1/4	4,005.80	1/4	3,753.08	1/4	3,473.23	1/4	3,109.29	1/4	2,745.02	1/4	2,380.75	1/4	2,016.47
1/2	4,701.97	1/2	4,505.97	1/2	4,253.25	1/2	4,000.53	1/2	3,747.81	1/2	3,465.81	1/2	3,101.70	1/2	2,737.43	1/2	2,373.16	1/2	2,008.89
3/4	4,701.51	3/4	4,500.71	3/4	4,247.99	3/4	3,995.27	3/4	3,742.55	3/4	3,458.39	3/4	3,094.11	3/4	2,729.84	3/4	2,365.57	3/4	2,001.30
11	4,700.35	11	4,495.44	11	4,242.72	11	3,990.00	11	3,737.28	11	3,450.80	11	3,086.52	11	2,722.25	11	2,357.98	11	1,993.71
1/4	4,699.18	1/4	4,490.18	1/4	4,237.46	1/4	3,984.74	1/4	3,732.02	1/4	3,443.21	1/4	3,078.93	1/4	2,714.66	1/4	2,350.39	1/4	1,986.12
1/2	4,698.02	1/2	4,484.91	1/2	4,232.19	1/2	3,979.47	1/2	3,726.75	1/2	3,435.62	1/2	3,071.35	1/2	2,707.08	1/2	2,342.80	1/2	1,978.53
3/4	4,696.85	3/4	4,479.65	3/4	4,226.93	3/4	3,974.21	3/4	3,721.49	3/4	3,428.03	3/4	3,063.76	3/4	2,699.49	3/4	2,335.21	3/4	1,970.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10-06" 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 138"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,963.35	0	1,599.08	0	1,234.81	0	871.31	0	508.05	0	144.02	0		0		0		0	
1/4	1,955.76	1/4	1,591.49	1/4	1,227.22	1/4	863.75	1/4	500.47	1/4	136.44	1/4		1/4		1/4		1/4	
1/2	1,948.18	1/2	1,583.90	1/2	1,219.63	1/2	856.20	1/2	492.88	1/2	128.85	1/2		1/2		1/2		1/2	
3/4	1,940.59	3/4	1,576.31	3/4	1,212.04	3/4	848.65	3/4	485.30	3/4	121.27	3/4		3/4		3/4		3/4	
1	1,933.00	1	1,568.72	1	1,204.45	1	841.09	1	477.72	1	113.69	1		1		1		1	
1/4	1,925.41	1/4	1,561.13	1/4	1,196.86	1/4	833.54	1/4	470.13	1/4	106.10	1/4		1/4		1/4		1/4	
1/2	1,917.82	1/2	1,553.55	1/2	1,189.28	1/2	825.98	1/2	462.55	1/2	98.52	1/2		1/2		1/2		1/2	
3/4	1,910.23	3/4	1,545.96	3/4	1,181.69	3/4	818.43	3/4	454.97	3/4	90.94	3/4		3/4		3/4		3/4	
2	1,902.64	2	1,538.37	2	1,174.10	2	810.87	2	447.38	2	83.35	2		2		2		2	
1/4	1,895.05	1/4	1,530.78	1/4	1,166.51	1/4	803.32	1/4	439.80	1/4	75.77	1/4		1/4		1/4		1/4	
1/2	1,887.46	1/2	1,523.19	1/2	1,158.92	1/2	795.76	1/2	432.21	1/2	68.18	1/2		1/2		1/2		1/2	
3/4	1,879.87	3/4	1,515.60	3/4	1,151.33	3/4	788.21	3/4	424.63	3/4	60.60	3/4		3/4		3/4		3/4	
3	1,872.28	3	1,508.01	3	1,143.74	3	780.66	3	417.05	3	53.83	3		3		3		3	
1/4	1,864.69	1/4	1,500.42	1/4	1,136.15	1/4	773.10	1/4	409.46	1/4	47.06	1/4		1/4		1/4		1/4	
1/2	1,857.11	1/2	1,492.84	1/2	1,128.57	1/2	765.55	1/2	401.88	1/2	40.29	1/2		1/2		1/2		1/2	
3/4	1,849.52	3/4	1,485.25	3/4	1,120.98	3/4	758.00	3/4	394.30	3/4	33.52	3/4		3/4		3/4		3/4	
4	1,841.93	4	1,477.66	4	1,113.39	4	750.44	4	386.71	4	28.65	4		4		4		4	
1/4	1,834.34	1/4	1,470.07	1/4	1,105.80	1/4	742.89	1/4	379.13	1/4	23.77	1/4		1/4		1/4		1/4	
1/2	1,826.75	1/2	1,462.48	1/2	1,098.21	1/2	735.33	1/2	371.54	1/2	18.90	1/2		1/2		1/2		1/2	
3/4	1,819.16	3/4	1,454.89	3/4	1,090.62	3/4	727.78	3/4	363.96	3/4	14.03	3/4		3/4		3/4		3/4	
5	1,811.57	5	1,447.30	5	1,083.03	5	720.23	5	356.37	5		5		5		5		5	
1/4	1,803.98	1/4	1,439.71	1/4	1,075.44	1/4	712.67	1/4	348.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,796.40	1/2	1,432.12	1/2	1,067.85	1/2	705.12	1/2	341.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,788.81	3/4	1,424.53	3/4	1,060.26	3/4	697.57	3/4	333.62	3/4		3/4		3/4		3/4		3/4	
6	1,781.22	6	1,416.94	6	1,052.68	6	690.01	6	326.04	6		6		6		6		6	
1/4	1,773.63	1/4	1,409.35	1/4	1,045.10	1/4	682.44	1/4	318.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,766.04	1/2	1,401.77	1/2	1,037.52	1/2	674.88	1/2	310.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.45	3/4	1,394.18	3/4	1,029.94	3/4	667.32	3/4	303.29	3/4		3/4		3/4		3/4		3/4	
7	1,750.86	7	1,386.59	7	1,022.39	7	659.73	7	295.70	7		7		7		7		7	
1/4	1,743.27	1/4	1,379.00	1/4	1,014.83	1/4	652.15	1/4	288.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,735.68	1/2	1,371.41	1/2	1,007.28	1/2	644.56	1/2	280.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.09	3/4	1,363.82	3/4	999.73	3/4	636.98	3/4	272.95	3/4		3/4		3/4		3/4		3/4	
8	1,720.50	8	1,356.23	8	992.17	8	629.40	8	265.37	8		8		8		8		8	
1/4	1,712.91	1/4	1,348.64	1/4	984.62	1/4	621.81	1/4	257.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.33	1/2	1,341.06	1/2	977.06	1/2	614.23	1/2	250.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.74	3/4	1,333.47	3/4	969.51	3/4	606.65	3/4	242.62	3/4		3/4		3/4		3/4		3/4	
9	1,690.15	9	1,325.88	9	961.95	9	599.06	9	235.03	9		9		9		9		9	
1/4	1,682.56	1/4	1,318.29	1/4	954.40	1/4	591.48	1/4	227.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,674.97	1/2	1,310.70	1/2	946.84	1/2	583.89	1/2	219.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,667.38	3/4	1,303.11	3/4	939.29	3/4	576.31	3/4	212.28	3/4		3/4		3/4		3/4		3/4	
10	1,659.79	10	1,295.52	10	931.74	10	568.73	10	204.69	10		10		10		10		10	
1/4	1,652.20	1/4	1,287.93	1/4	924.18	1/4	561.14	1/4	197.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,644.62	1/2	1,280.35	1/2	916.63	1/2	553.56	1/2	189.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,637.03	3/4	1,272.76	3/4	909.08	3/4	545.98	3/4	181.94	3/4		3/4		3/4		3/4		3/4	
11	1,629.44	11	1,265.17	11	901.52	11	538.39	11	174.36	11		11		11		11		11	
1/4	1,621.85	1/4	1,257.58	1/4	893.97	1/4	530.81	1/4	166.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,614.26	1/2	1,249.99	1/2	886.41	1/2	523.22	1/2	159.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,606.67	3/4	1,242.40	3/4	878.86	3/4	515.64	3/4	151.61	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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