



BARGE "E2MS 302"

INNAGE (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	- 00-1/8	00-1/8	- 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	- 00-1/8	00-1/8	- 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 = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 235'-09"

August 28, 2013

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

<http://www.pmacorp.net>



BARGE "E2MS 302"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

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	15.31	0	304.15	0	654.21	0	1,011.05	0	1,369.06	0	1,727.76	0	2,086.46	0	2,445.16	0	2,803.80	0	3,162.40
1/4	18.36	1/4	311.05	1/4	661.68	1/4	1,018.46	1/4	1,376.53	1/4	1,735.23	1/4	2,093.93	1/4	2,452.63	1/4	2,811.27	1/4	3,169.88
1/2	21.41	1/2	317.96	1/2	669.15	1/2	1,025.88	1/2	1,384.01	1/2	1,742.71	1/2	2,101.40	1/2	2,460.10	1/2	2,818.74	1/2	3,177.35
3/4	24.46	3/4	324.86	3/4	676.63	3/4	1,033.29	3/4	1,391.48	3/4	1,750.18	3/4	2,108.88	3/4	2,467.58	3/4	2,826.21	3/4	3,184.82
1	27.50	1	331.76	1	684.10	1	1,040.71	1	1,398.95	1	1,757.65	1	2,116.35	1	2,475.05	1	2,833.68	1	3,192.29
1/4	32.51	1/4	338.75	1/4	691.57	1/4	1,048.13	1/4	1,406.42	1/4	1,765.12	1/4	2,123.82	1/4	2,482.52	1/4	2,841.16	1/4	3,199.76
1/2	37.51	1/2	345.74	1/2	699.04	1/2	1,055.55	1/2	1,413.90	1/2	1,772.60	1/2	2,131.30	1/2	2,490.00	1/2	2,848.63	1/2	3,207.23
3/4	42.51	3/4	352.73	3/4	706.52	3/4	1,062.97	3/4	1,421.37	3/4	1,780.07	3/4	2,138.77	3/4	2,497.47	3/4	2,856.10	3/4	3,214.70
2	47.52	2	359.72	2	713.99	2	1,070.40	2	1,428.84	2	1,787.54	2	2,146.24	2	2,504.94	2	2,863.57	2	3,222.17
1/4	53.51	1/4	366.80	1/4	721.46	1/4	1,077.84	1/4	1,436.32	1/4	1,795.02	1/4	2,153.71	1/4	2,512.41	1/4	2,871.04	1/4	3,229.64
1/2	59.50	1/2	373.88	1/2	728.93	1/2	1,085.28	1/2	1,443.79	1/2	1,802.49	1/2	2,161.19	1/2	2,519.89	1/2	2,878.51	1/2	3,237.11
3/4	65.49	3/4	380.96	3/4	736.41	3/4	1,092.72	3/4	1,451.26	3/4	1,809.96	3/4	2,168.66	3/4	2,527.36	3/4	2,885.98	3/4	3,244.58
3	71.48	3	388.04	3	743.88	3	1,100.16	3	1,458.74	3	1,817.43	3	2,176.13	3	2,534.83	3	2,893.45	3	3,252.06
1/4	77.58	1/4	395.20	1/4	751.35	1/4	1,107.60	1/4	1,466.21	1/4	1,824.91	1/4	2,183.61	1/4	2,542.31	1/4	2,900.92	1/4	3,259.53
1/2	83.68	1/2	402.37	1/2	758.83	1/2	1,115.04	1/2	1,473.68	1/2	1,832.38	1/2	2,191.08	1/2	2,549.78	1/2	2,908.39	1/2	3,267.00
3/4	89.79	3/4	409.54	3/4	766.30	3/4	1,122.49	3/4	1,481.15	3/4	1,839.85	3/4	2,198.55	3/4	2,557.25	3/4	2,915.86	3/4	3,274.47
4	95.89	4	416.70	4	773.77	4	1,129.93	4	1,488.63	4	1,847.33	4	2,206.03	4	2,564.72	4	2,923.34	4	3,281.94
1/4	102.09	1/4	423.95	1/4	781.19	1/4	1,137.40	1/4	1,496.10	1/4	1,854.80	1/4	2,213.50	1/4	2,572.20	1/4	2,930.81	1/4	3,289.41
1/2	108.29	1/2	431.21	1/2	788.62	1/2	1,144.87	1/2	1,503.57	1/2	1,862.27	1/2	2,220.97	1/2	2,579.67	1/2	2,938.28	1/2	3,296.88
3/4	114.49	3/4	438.46	3/4	796.04	3/4	1,152.35	3/4	1,511.05	3/4	1,869.74	3/4	2,228.44	3/4	2,587.14	3/4	2,945.75	3/4	3,304.35
5	120.69	5	445.72	5	803.46	5	1,159.82	5	1,518.52	5	1,877.22	5	2,235.92	5	2,594.62	5	2,953.22	5	3,311.82
1/4	126.98	1/4	453.06	1/4	810.87	1/4	1,167.29	1/4	1,525.99	1/4	1,884.69	1/4	2,243.39	1/4	2,602.09	1/4	2,960.69	1/4	3,319.29
1/2	133.27	1/2	460.40	1/2	818.29	1/2	1,174.76	1/2	1,533.46	1/2	1,892.16	1/2	2,250.86	1/2	2,609.56	1/2	2,968.16	1/2	3,326.76
3/4	139.56	3/4	467.74	3/4	825.70	3/4	1,182.24	3/4	1,540.94	3/4	1,899.64	3/4	2,258.34	3/4	2,617.03	3/4	2,975.63	3/4	3,334.23
6	145.85	6	475.08	6	833.12	6	1,189.71	6	1,548.41	6	1,907.11	6	2,265.81	6	2,624.50	6	2,983.10	6	3,341.71
1/4	152.22	1/4	482.51	1/4	840.53	1/4	1,197.18	1/4	1,555.88	1/4	1,914.58	1/4	2,273.28	1/4	2,631.97	1/4	2,990.57	1/4	3,349.18
1/2	158.60	1/2	489.94	1/2	847.94	1/2	1,204.66	1/2	1,563.36	1/2	1,922.05	1/2	2,280.75	1/2	2,639.44	1/2	2,998.04	1/2	3,356.65
3/4	164.98	3/4	497.37	3/4	855.36	3/4	1,212.13	3/4	1,570.83	3/4	1,929.53	3/4	2,288.23	3/4	2,646.91	3/4	3,005.52	3/4	3,364.12
7	171.35	7	504.80	7	862.77	7	1,219.60	7	1,578.30	7	1,937.00	7	2,295.70	7	2,654.38	7	3,012.99	7	3,371.59
1/4	177.82	1/4	512.27	1/4	870.19	1/4	1,227.08	1/4	1,585.77	1/4	1,944.47	1/4	2,303.17	1/4	2,661.85	1/4	3,020.46	1/4	3,379.06
1/2	184.28	1/2	519.74	1/2	877.60	1/2	1,234.55	1/2	1,593.25	1/2	1,951.95	1/2	2,310.65	1/2	2,669.32	1/2	3,027.93	1/2	3,386.53
3/4	190.75	3/4	527.22	3/4	885.01	3/4	1,242.02	3/4	1,600.72	3/4	1,959.42	3/4	2,318.12	3/4	2,676.80	3/4	3,035.40	3/4	3,394.00
8	197.21	8	534.69	8	892.43	8	1,249.49	8	1,608.19	8	1,966.89	8	2,325.59	8	2,684.27	8	3,042.87	8	3,401.47
1/4	203.76	1/4	542.16	1/4	899.84	1/4	1,256.97	1/4	1,615.67	1/4	1,974.37	1/4	2,333.06	1/4	2,691.74	1/4	3,050.34	1/4	3,408.94
1/2	210.32	1/2	549.62	1/2	907.26	1/2	1,264.44	1/2	1,623.14	1/2	1,981.84	1/2	2,340.54	1/2	2,699.21	1/2	3,057.81	1/2	3,416.41
3/4	216.87	3/4	557.09	3/4	914.67	3/4	1,271.91	3/4	1,630.61	3/4	1,989.31	3/4	2,348.01	3/4	2,706.68	3/4	3,065.28	3/4	3,423.89
9	223.42	9	564.56	9	922.08	9	1,279.39	9	1,638.08	9	1,996.78	9	2,355.48	9	2,714.15	9	3,072.75	9	3,431.36
1/4	230.06	1/4	572.02	1/4	929.50	1/4	1,286.86	1/4	1,645.56	1/4	2,004.26	1/4	2,362.96	1/4	2,721.62	1/4	3,080.22	1/4	3,438.83
1/2	236.70	1/2	579.49	1/2	936.91	1/2	1,294.33	1/2	1,653.03	1/2	2,011.73	1/2	2,370.43	1/2	2,729.09	1/2	3,087.70	1/2	3,446.30
3/4	243.34	3/4	586.96	3/4	944.33	3/4	1,301.80	3/4	1,660.50	3/4	2,019.20	3/4	2,377.90	3/4	2,736.56	3/4	3,095.17	3/4	3,453.77
10	249.98	10	594.43	10	951.74	10	1,309.28	10	1,667.98	10	2,026.68	10	2,385.37	10	2,744.03	10	3,102.64	10	3,461.24
1/4	256.71	1/4	601.90	1/4	959.15	1/4	1,316.75	1/4	1,675.45	1/4	2,034.15	1/4	2,392.85	1/4	2,751.50	1/4	3,110.11	1/4	3,468.71
1/2	263.43	1/2	609.37	1/2	966.57	1/2	1,324.22	1/2	1,682.92	1/2	2,041.62	1/2	2,400.32	1/2	2,758.98	1/2	3,117.58	1/2	3,476.18
3/4	270.16	3/4	616.84	3/4	973.98	3/4	1,331.70	3/4	1,690.39	3/4	2,049.09	3/4	2,407.79	3/4	2,766.45	3/4	3,125.05	3/4	3,483.65
11	276.89	11	624.32	11	981.39	11	1,339.17	11	1,697.87	11	2,056.57	11	2,415.27	11	2,773.92	11	3,132.52	11	3,491.12
1/4	283.70	1/4	631.79	1/4	988.81	1/4	1,346.64	1/4	1,705.34	1/4	2,064.04	1/4	2,422.74	1/4	2,781.39	1/4	3,139.99	1/4	3,498.59
1/2	290.52	1/2	639.26	1/2	996.22	1/2	1,354.11	1/2	1,712.81	1/2	2,071.51	1/2	2,430.21	1/2	2,788.86	1/2	3,147.46	1/2	3,506.07
3/4	297.34	3/4	646.74	3/4	1,003.64	3/4	1,361.59	3/4	1,720.29	3/4	2,078.99	3/4	2,437.68	3/4	2,796.33	3/4	3,154.93	3/4	3,513.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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





BARGE "E2MS 302"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,521.01	0	3,879.61	0	4,237.51	0	4,595.06	0	4,950.79	0		0		0		0		0	
1/4	3,528.48	1/4	3,887.08	1/4	4,244.96	1/4	4,602.51	1/4	4,958.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,535.95	1/2	3,894.55	1/2	4,252.41	1/2	4,609.95	1/2	4,965.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,543.42	3/4	3,902.02	3/4	4,259.86	3/4	4,617.40	3/4	4,972.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,550.89	1	3,909.49	1	4,267.31	1	4,624.85	1	4,980.02	1		1		1		1		1	
1/4	3,558.36	1/4	3,916.97	1/4	4,274.75	1/4	4,632.30	1/4	4,986.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,565.83	1/2	3,924.44	1/2	4,282.20	1/2	4,639.75	1/2	4,992.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,573.30	3/4	3,931.91	3/4	4,289.65	3/4	4,647.20	3/4	4,999.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,580.77	2	3,939.38	2	4,297.10	2	4,654.65	2	5,005.79	2		2		2		2		2	
1/4	3,588.25	1/4	3,946.85	1/4	4,304.55	1/4	4,662.10	1/4	5,010.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,595.72	1/2	3,954.32	1/2	4,312.00	1/2	4,669.55	1/2	5,016.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,603.19	3/4	3,961.79	3/4	4,319.45	3/4	4,676.99	3/4	5,021.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,610.66	3	3,969.26	3	4,326.90	3	4,684.44	3	5,026.58	3		3		3		3		3	
1/4	3,618.13	1/4	3,976.73	1/4	4,334.35	1/4	4,691.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,625.60	1/2	3,984.20	1/2	4,341.79	1/2	4,699.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,633.07	3/4	3,991.67	3/4	4,349.24	3/4	4,706.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,640.54	4	3,999.14	4	4,356.69	4	4,714.24	4		4		4		4		4		4	
1/4	3,648.01	1/4	4,006.59	1/4	4,364.14	1/4	4,721.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,655.48	1/2	4,014.04	1/2	4,371.59	1/2	4,729.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,662.95	3/4	4,021.49	3/4	4,379.04	3/4	4,736.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,670.43	5	4,028.94	5	4,386.49	5	4,744.04	5		5		5		5		5		5	
1/4	3,677.90	1/4	4,036.39	1/4	4,393.94	1/4	4,751.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,685.37	1/2	4,043.84	1/2	4,401.39	1/2	4,758.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,692.84	3/4	4,051.29	3/4	4,408.83	3/4	4,766.38	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,700.31	6	4,058.74	6	4,416.28	6	4,773.83	6		6		6		6		6		6	
1/4	3,707.78	1/4	4,066.19	1/4	4,423.73	1/4	4,781.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,715.25	1/2	4,073.63	1/2	4,431.18	1/2	4,788.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,722.72	3/4	4,081.08	3/4	4,438.63	3/4	4,795.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,730.19	7	4,088.53	7	4,446.08	7	4,803.33	7		7		7		7		7		7	
1/4	3,737.66	1/4	4,095.98	1/4	4,453.53	1/4	4,810.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,745.13	1/2	4,103.43	1/2	4,460.98	1/2	4,818.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,752.61	3/4	4,110.88	3/4	4,468.43	3/4	4,825.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,760.08	8	4,118.33	8	4,475.87	8	4,832.84	8		8		8		8		8		8	
1/4	3,767.55	1/4	4,125.78	1/4	4,483.32	1/4	4,840.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,775.02	1/2	4,133.23	1/2	4,490.77	1/2	4,847.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,782.49	3/4	4,140.67	3/4	4,498.22	3/4	4,854.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,789.96	9	4,148.12	9	4,505.67	9	4,862.34	9		9		9		9		9		9	
1/4	3,797.43	1/4	4,155.57	1/4	4,513.12	1/4	4,869.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,804.90	1/2	4,163.02	1/2	4,520.57	1/2	4,877.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,812.37	3/4	4,170.47	3/4	4,528.02	3/4	4,884.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,819.84	10	4,177.92	10	4,535.47	10	4,891.85	10		10		10		10		10		10	
1/4	3,827.31	1/4	4,185.37	1/4	4,542.91	1/4	4,899.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,834.79	1/2	4,192.82	1/2	4,550.36	1/2	4,906.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,842.26	3/4	4,200.27	3/4	4,557.81	3/4	4,913.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,849.73	11	4,207.71	11	4,565.26	11	4,921.34	11		11		11		11		11		11	
1/4	3,857.20	1/4	4,215.16	1/4	4,572.71	1/4	4,928.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,864.67	1/2	4,222.61	1/2	4,580.16	1/2	4,936.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,872.14	3/4	4,230.06	3/4	4,587.61	3/4	4,943.43	3/4		3/4	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: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
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PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "E2MS 302"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

Table with 18 columns (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.) and 34 rows of capacity data.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK. CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE. GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





BARGE "E2MS 302"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,520.47	0	3,878.80	0	4,236.44	0	4,593.73	0	4,949.20	0		0		0		0		0	
1/4	3,527.93	1/4	3,886.27	1/4	4,243.88	1/4	4,601.17	1/4	4,956.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,535.40	1/2	3,893.73	1/2	4,251.33	1/2	4,608.61	1/2	4,963.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.86	3/4	3,901.20	3/4	4,258.77	3/4	4,616.06	3/4	4,971.10	3/4		3/4		3/4		3/4		3/4	
1	3,550.33	1	3,908.66	1	4,266.21	1	4,623.50	1	4,978.40	1		1		1		1		1	
1/4	3,557.80	1/4	3,916.13	1/4	4,273.66	1/4	4,630.95	1/4	4,984.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.26	1/2	3,923.59	1/2	4,281.10	1/2	4,638.39	1/2	4,991.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.73	3/4	3,931.06	3/4	4,288.54	3/4	4,645.83	3/4	4,997.72	3/4		3/4		3/4		3/4		3/4	
2	3,580.19	2	3,938.53	2	4,295.99	2	4,653.28	2	5,004.16	2		2		2		2		2	
1/4	3,587.66	1/4	3,945.99	1/4	4,303.43	1/4	4,660.72	1/4	5,009.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.12	1/2	3,953.46	1/2	4,310.87	1/2	4,668.16	1/2	5,014.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.59	3/4	3,960.92	3/4	4,318.32	3/4	4,675.61	3/4	5,019.74	3/4		3/4		3/4		3/4		3/4	
3	3,610.05	3	3,968.39	3	4,325.76	3	4,683.05	3	5,024.93	3		3		3		3		3	
1/4	3,617.52	1/4	3,975.85	1/4	4,333.21	1/4	4,690.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,624.98	1/2	3,983.32	1/2	4,340.65	1/2	4,697.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,632.45	3/4	3,990.78	3/4	4,348.09	3/4	4,705.38	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,639.91	4	3,998.25	4	4,355.54	4	4,712.82	4		4		4		4		4		4	
1/4	3,647.38	1/4	4,005.69	1/4	4,362.98	1/4	4,720.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,654.84	1/2	4,013.13	1/2	4,370.42	1/2	4,727.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.31	3/4	4,020.58	3/4	4,377.87	3/4	4,735.15	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,669.77	5	4,028.02	5	4,385.31	5	4,742.60	5		5		5		5		5		5	
1/4	3,677.24	1/4	4,035.47	1/4	4,392.75	1/4	4,750.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.71	1/2	4,042.91	1/2	4,400.20	1/2	4,757.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,692.17	3/4	4,050.35	3/4	4,407.64	3/4	4,764.93	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,699.64	6	4,057.80	6	4,415.08	6	4,772.37	6		6		6		6		6		6	
1/4	3,707.10	1/4	4,065.24	1/4	4,422.53	1/4	4,779.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.57	1/2	4,072.68	1/2	4,429.97	1/2	4,787.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.03	3/4	4,080.13	3/4	4,437.41	3/4	4,794.48	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,729.50	7	4,087.57	7	4,444.86	7	4,801.85	7		7		7		7		7		7	
1/4	3,736.96	1/4	4,095.01	1/4	4,452.30	1/4	4,809.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,744.43	1/2	4,102.46	1/2	4,459.74	1/2	4,816.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,751.89	3/4	4,109.90	3/4	4,467.19	3/4	4,823.96	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,759.36	8	4,117.34	8	4,474.63	8	4,831.33	8		8		8		8		8		8	
1/4	3,766.82	1/4	4,124.79	1/4	4,482.08	1/4	4,838.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,774.29	1/2	4,132.23	1/2	4,489.52	1/2	4,846.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,781.75	3/4	4,139.67	3/4	4,496.96	3/4	4,853.44	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,789.22	9	4,147.12	9	4,504.41	9	4,860.81	9		9		9		9		9		9	
1/4	3,796.68	1/4	4,154.56	1/4	4,511.85	1/4	4,868.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,804.15	1/2	4,162.00	1/2	4,519.29	1/2	4,875.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,811.62	3/4	4,169.45	3/4	4,526.74	3/4	4,882.93	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,819.08	10	4,176.89	10	4,534.18	10	4,890.30	10		10		10		10		10		10	
1/4	3,826.55	1/4	4,184.34	1/4	4,541.62	1/4	4,897.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,834.01	1/2	4,191.78	1/2	4,549.07	1/2	4,905.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,841.48	3/4	4,199.22	3/4	4,556.51	3/4	4,912.40	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,848.94	11	4,206.67	11	4,563.95	11	4,919.77	11		11		11		11		11		11	
1/4	3,856.41	1/4	4,214.11	1/4	4,571.40	1/4	4,927.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.87	1/2	4,221.55	1/2	4,578.84	1/2	4,934.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,871.34	3/4	4,229.00	3/4	4,586.28	3/4	4,941.84	3/4		3/4		3/4		3/4		3/4		3/4	

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



BARGE "E2MS 302"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	15.35	0	359.82	0	719.47	0	1,069.38	0	1,424.28	0	1,783.94	0	2,143.59	0	2,503.25	0	2,862.90	0	3,222.56
1/4	20.03	1/4	367.31	1/4	726.97	1/4	1,076.57	1/4	1,431.78	1/4	1,791.43	1/4	2,151.09	1/4	2,510.74	1/4	2,870.40	1/4	3,230.05
1/2	24.72	1/2	374.81	1/2	734.46	1/2	1,083.75	1/2	1,439.27	1/2	1,798.92	1/2	2,158.58	1/2	2,518.23	1/2	2,877.89	1/2	3,237.54
3/4	29.40	3/4	382.30	3/4	741.95	3/4	1,090.94	3/4	1,446.76	3/4	1,806.42	3/4	2,166.07	3/4	2,525.73	3/4	2,885.38	3/4	3,245.04
1	34.08	1	389.79	1	749.45	1	1,098.13	1	1,454.26	1	1,813.91	1	2,173.56	1	2,533.22	1	2,892.87	1	3,252.53
1/4	40.64	1/4	397.28	1/4	756.94	1/4	1,105.32	1/4	1,461.75	1/4	1,821.40	1/4	2,181.06	1/4	2,540.71	1/4	2,900.37	1/4	3,260.02
1/2	47.19	1/2	404.78	1/2	764.43	1/2	1,112.51	1/2	1,469.24	1/2	1,828.90	1/2	2,188.55	1/2	2,548.20	1/2	2,907.86	1/2	3,267.51
3/4	53.75	3/4	412.27	3/4	771.92	3/4	1,119.71	3/4	1,476.73	3/4	1,836.39	3/4	2,196.04	3/4	2,555.70	3/4	2,915.35	3/4	3,275.01
2	60.30	2	419.76	2	779.42	2	1,126.90	2	1,484.23	2	1,843.88	2	2,203.54	2	2,563.19	2	2,922.84	2	3,282.50
1/4	67.76	1/4	427.26	1/4	786.91	1/4	1,134.09	1/4	1,491.72	1/4	1,851.37	1/4	2,211.03	1/4	2,570.68	1/4	2,930.34	1/4	3,289.99
1/2	75.21	1/2	434.75	1/2	794.40	1/2	1,141.29	1/2	1,499.21	1/2	1,858.87	1/2	2,218.52	1/2	2,578.18	1/2	2,937.83	1/2	3,297.48
3/4	82.67	3/4	442.24	3/4	801.90	3/4	1,148.48	3/4	1,506.71	3/4	1,866.36	3/4	2,226.01	3/4	2,585.67	3/4	2,945.32	3/4	3,304.98
3	90.13	3	449.73	3	809.39	3	1,155.68	3	1,514.20	3	1,873.85	3	2,233.51	3	2,593.16	3	2,952.82	3	3,312.47
1/4	97.61	1/4	457.23	1/4	816.88	1/4	1,162.89	1/4	1,521.69	1/4	1,881.35	1/4	2,241.00	1/4	2,600.65	1/4	2,960.31	1/4	3,319.96
1/2	105.09	1/2	464.72	1/2	824.37	1/2	1,170.10	1/2	1,529.18	1/2	1,888.84	1/2	2,248.49	1/2	2,608.15	1/2	2,967.80	1/2	3,327.46
3/4	112.57	3/4	472.21	3/4	831.87	3/4	1,177.31	3/4	1,536.68	3/4	1,896.33	3/4	2,255.99	3/4	2,615.64	3/4	2,975.29	3/4	3,334.95
4	120.06	4	479.70	4	839.36	4	1,184.52	4	1,544.17	4	1,903.82	4	2,263.48	4	2,623.13	4	2,982.79	4	3,342.44
1/4	127.55	1/4	487.20	1/4	846.57	1/4	1,192.01	1/4	1,551.66	1/4	1,911.32	1/4	2,270.97	1/4	2,630.63	1/4	2,990.28	1/4	3,349.93
1/2	135.04	1/2	494.69	1/2	853.78	1/2	1,199.50	1/2	1,559.16	1/2	1,918.81	1/2	2,278.46	1/2	2,638.12	1/2	2,997.77	1/2	3,357.43
3/4	142.53	3/4	502.18	3/4	860.99	3/4	1,206.99	3/4	1,566.65	3/4	1,926.30	3/4	2,285.96	3/4	2,645.61	3/4	3,005.27	3/4	3,364.92
5	150.02	5	509.68	5	868.20	5	1,214.49	5	1,574.14	5	1,933.80	5	2,293.45	5	2,653.10	5	3,012.76	5	3,372.41
1/4	157.51	1/4	517.17	1/4	875.38	1/4	1,221.98	1/4	1,581.63	1/4	1,941.29	1/4	2,300.94	1/4	2,660.60	1/4	3,020.25	1/4	3,379.91
1/2	165.01	1/2	524.66	1/2	882.57	1/2	1,229.47	1/2	1,589.13	1/2	1,948.78	1/2	2,308.44	1/2	2,668.09	1/2	3,027.74	1/2	3,387.40
3/4	172.50	3/4	532.15	3/4	889.75	3/4	1,236.96	3/4	1,596.62	3/4	1,956.27	3/4	2,315.93	3/4	2,675.58	3/4	3,035.24	3/4	3,394.89
6	179.99	6	539.65	6	896.94	6	1,244.46	6	1,604.11	6	1,963.77	6	2,323.42	6	2,683.08	6	3,042.73	6	3,402.38
1/4	187.49	1/4	547.14	1/4	904.12	1/4	1,251.95	1/4	1,611.60	1/4	1,971.26	1/4	2,330.91	1/4	2,690.57	1/4	3,050.22	1/4	3,409.88
1/2	194.98	1/2	554.63	1/2	911.31	1/2	1,259.44	1/2	1,619.10	1/2	1,978.75	1/2	2,338.41	1/2	2,698.06	1/2	3,057.72	1/2	3,417.37
3/4	202.47	3/4	562.13	3/4	918.49	3/4	1,266.94	3/4	1,626.59	3/4	1,986.24	3/4	2,345.90	3/4	2,705.55	3/4	3,065.21	3/4	3,424.86
7	209.96	7	569.62	7	925.68	7	1,274.43	7	1,634.08	7	1,993.74	7	2,353.39	7	2,713.05	7	3,072.70	7	3,432.36
1/4	217.46	1/4	577.11	1/4	932.86	1/4	1,281.92	1/4	1,641.58	1/4	2,001.23	1/4	2,360.88	1/4	2,720.54	1/4	3,080.19	1/4	3,439.85
1/2	224.95	1/2	584.60	1/2	940.05	1/2	1,289.41	1/2	1,649.07	1/2	2,008.72	1/2	2,368.38	1/2	2,728.03	1/2	3,087.69	1/2	3,447.34
3/4	232.44	3/4	592.10	3/4	947.23	3/4	1,296.91	3/4	1,656.56	3/4	2,016.22	3/4	2,375.87	3/4	2,735.52	3/4	3,095.18	3/4	3,454.83
8	239.94	8	599.59	8	954.42	8	1,304.40	8	1,664.05	8	2,023.71	8	2,383.36	8	2,743.02	8	3,102.67	8	3,462.33
1/4	247.43	1/4	607.08	1/4	961.60	1/4	1,311.89	1/4	1,671.55	1/4	2,031.20	1/4	2,390.86	1/4	2,750.51	1/4	3,110.16	1/4	3,469.82
1/2	254.92	1/2	614.58	1/2	968.79	1/2	1,319.39	1/2	1,679.04	1/2	2,038.69	1/2	2,398.35	1/2	2,758.00	1/2	3,117.66	1/2	3,477.31
3/4	262.41	3/4	622.07	3/4	975.98	3/4	1,326.88	3/4	1,686.53	3/4	2,046.19	3/4	2,405.84	3/4	2,765.50	3/4	3,125.15	3/4	3,484.80
9	269.91	9	629.56	9	983.16	9	1,334.37	9	1,694.03	9	2,053.68	9	2,413.33	9	2,772.99	9	3,132.64	9	3,492.30
1/4	277.40	1/4	637.05	1/4	990.35	1/4	1,341.86	1/4	1,701.52	1/4	2,061.17	1/4	2,420.83	1/4	2,780.48	1/4	3,140.14	1/4	3,499.79
1/2	284.89	1/2	644.55	1/2	997.53	1/2	1,349.36	1/2	1,709.01	1/2	2,068.67	1/2	2,428.32	1/2	2,787.97	1/2	3,147.63	1/2	3,507.28
3/4	292.38	3/4	652.04	3/4	1,004.72	3/4	1,356.85	3/4	1,716.50	3/4	2,076.16	3/4	2,435.81	3/4	2,795.47	3/4	3,155.12	3/4	3,514.78
10	299.88	10	659.53	10	1,011.90	10	1,364.34	10	1,724.00	10	2,083.65	10	2,443.31	10	2,802.96	10	3,162.61	10	3,522.27
1/4	307.37	1/4	667.02	1/4	1,019.09	1/4	1,371.84	1/4	1,731.49	1/4	2,091.14	1/4	2,450.80	1/4	2,810.45	1/4	3,170.11	1/4	3,529.76
1/2	314.86	1/2	674.52	1/2	1,026.27	1/2	1,379.33	1/2	1,738.98	1/2	2,098.64	1/2	2,458.29	1/2	2,817.95	1/2	3,177.60	1/2	3,537.25
3/4	322.36	3/4	682.01	3/4	1,033.46	3/4	1,386.82	3/4	1,746.48	3/4	2,106.13	3/4	2,465.78	3/4	2,825.44	3/4	3,185.09	3/4	3,544.75
11	329.85	11	689.50	11	1,040.64	11	1,394.31	11	1,753.97	11	2,113.62	11	2,473.28	11	2,832.93	11	3,192.59	11	3,552.24
1/4	337.34	1/4	697.00	1/4	1,047.83	1/4	1,401.81	1/4	1,761.46	1/4	2,121.12	1/4	2,480.77	1/4	2,840.42	1/4	3,200.08	1/4	3,559.73
1/2	344.83	1/2	704.49	1/2	1,055.01	1/2	1,409.30	1/2	1,768.95	1/2	2,128.61	1/2	2,488.26	1/2	2,847.92	1/2	3,207.57	1/2	3,567.23
3/4	352.33	3/4	711.98	3/4	1,062.20	3/4	1,416.79	3/4	1,776.45	3/4	2,136.10	3/4	2,495.76	3/4	2,855.41	3/4	3,215.06	3/4	3,574.72

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 302"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,582.21	0	3,941.87	0	4,300.82	0	4,659.42	0	5,016.37	0		0		0		0		0	
1/4	3,589.70	1/4	3,949.36	1/4	4,308.29	1/4	4,666.89	1/4	5,023.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,597.20	1/2	3,956.85	1/2	4,315.76	1/2	4,674.36	1/2	5,031.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,604.69	3/4	3,964.34	3/4	4,323.23	3/4	4,681.84	3/4	5,038.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,612.18	1	3,971.84	1	4,330.70	1	4,689.31	1	5,045.70	1	1	1	1	1	1	1	1	1	1
1/4	3,619.68	1/4	3,979.33	1/4	4,338.17	1/4	4,696.78	1/4	5,052.17	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,627.17	1/2	3,986.82	1/2	4,345.64	1/2	4,704.25	1/2	5,058.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,634.66	3/4	3,994.32	3/4	4,353.12	3/4	4,711.72	3/4	5,065.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,642.15	2	4,001.81	2	4,360.59	2	4,719.19	2	5,071.57	2	2	2	2	2	2	2	2	2	2
1/4	3,649.65	1/4	4,009.30	1/4	4,368.06	1/4	4,726.66	1/4	5,076.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,657.14	1/2	4,016.79	1/2	4,375.53	1/2	4,734.13	1/2	5,082.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,664.63	3/4	4,024.29	3/4	4,383.00	3/4	4,741.60	3/4	5,087.23	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,672.12	3	4,031.78	3	4,390.47	3	4,749.07	3	5,092.45	3	3	3	3	3	3	3	3	3	3
1/4	3,679.62	1/4	4,039.27	1/4	4,397.94	1/4	4,756.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,687.11	1/2	4,046.76	1/2	4,405.41	1/2	4,764.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,694.60	3/4	4,054.26	3/4	4,412.88	3/4	4,771.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,702.10	4	4,061.75	4	4,420.35	4	4,778.96	4		4	4	4	4	4	4	4	4	4	4
1/4	3,709.59	1/4	4,069.22	1/4	4,427.82	1/4	4,786.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,717.08	1/2	4,076.69	1/2	4,435.30	1/2	4,793.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,724.57	3/4	4,084.16	3/4	4,442.77	3/4	4,801.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,732.07	5	4,091.63	5	4,450.24	5	4,808.84	5		5	5	5	5	5	5	5	5	5	5
1/4	3,739.56	1/4	4,099.10	1/4	4,457.71	1/4	4,816.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,747.05	1/2	4,106.58	1/2	4,465.18	1/2	4,823.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,754.55	3/4	4,114.05	3/4	4,472.65	3/4	4,831.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,762.04	6	4,121.52	6	4,480.12	6	4,838.72	6		6	6	6	6	6	6	6	6	6	6
1/4	3,769.53	1/4	4,128.99	1/4	4,487.59	1/4	4,846.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,777.02	1/2	4,136.46	1/2	4,495.06	1/2	4,853.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,784.52	3/4	4,143.93	3/4	4,502.53	3/4	4,860.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,792.01	7	4,151.40	7	4,510.00	7	4,868.34	7		7	7	7	7	7	7	7	7	7	7
1/4	3,799.50	1/4	4,158.87	1/4	4,517.48	1/4	4,875.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,807.00	1/2	4,166.34	1/2	4,524.95	1/2	4,883.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,814.49	3/4	4,173.81	3/4	4,532.42	3/4	4,890.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,821.98	8	4,181.28	8	4,539.89	8	4,897.96	8		8	8	8	8	8	8	8	8	8	8
1/4	3,829.47	1/4	4,188.76	1/4	4,547.36	1/4	4,905.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,836.97	1/2	4,196.23	1/2	4,554.83	1/2	4,912.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,844.46	3/4	4,203.70	3/4	4,562.30	3/4	4,920.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,851.95	9	4,211.17	9	4,569.77	9	4,927.58	9		9	9	9	9	9	9	9	9	9	9
1/4	3,859.44	1/4	4,218.64	1/4	4,577.24	1/4	4,934.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,866.94	1/2	4,226.11	1/2	4,584.71	1/2	4,942.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,874.43	3/4	4,233.58	3/4	4,592.18	3/4	4,949.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,881.92	10	4,241.05	10	4,599.66	10	4,957.20	10		10	10	10	10	10	10	10	10	10	10
1/4	3,889.42	1/4	4,248.52	1/4	4,607.13	1/4	4,964.60	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,896.91	1/2	4,255.99	1/2	4,614.60	1/2	4,972.00	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,904.40	3/4	4,263.46	3/4	4,622.07	3/4	4,979.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,911.89	11	4,270.94	11	4,629.54	11	4,986.80	11		11	11	11	11	11	11	11	11	11	11
1/4	3,919.39	1/4	4,278.41	1/4	4,637.01	1/4	4,994.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,926.88	1/2	4,285.88	1/2	4,644.48	1/2	5,001.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,934.37	3/4	4,293.35	3/4	4,651.95	3/4	5,008.97	3/4		3/4	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: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

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& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "E2MS 302"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	15.35	0	359.82	0	719.47	0	1,078.73	0	1,438.28	0	1,797.94	0	2,157.59	0	2,517.24	0	2,876.84	0	3,236.39
1/4	20.03	1/4	367.31	1/4	726.97	1/4	1,086.21	1/4	1,445.77	1/4	1,805.43	1/4	2,165.08	1/4	2,524.74	1/4	2,884.33	1/4	3,243.88
1/2	24.72	1/2	374.81	1/2	734.46	1/2	1,093.69	1/2	1,453.27	1/2	1,812.92	1/2	2,172.58	1/2	2,532.23	1/2	2,891.82	1/2	3,251.37
3/4	29.40	3/4	382.30	3/4	741.95	3/4	1,101.16	3/4	1,460.76	3/4	1,820.41	3/4	2,180.07	3/4	2,539.72	3/4	2,899.31	3/4	3,258.86
1	34.08	1	389.79	1	749.45	1	1,108.64	1	1,468.25	1	1,827.91	1	2,187.56	1	2,547.22	1	2,906.80	1	3,266.35
1/4	40.64	1/4	397.28	1/4	756.94	1/4	1,116.13	1/4	1,475.75	1/4	1,835.40	1/4	2,195.05	1/4	2,554.71	1/4	2,914.29	1/4	3,273.84
1/2	47.19	1/2	404.78	1/2	764.43	1/2	1,123.62	1/2	1,483.24	1/2	1,842.89	1/2	2,202.55	1/2	2,562.20	1/2	2,921.78	1/2	3,281.33
3/4	53.75	3/4	412.27	3/4	771.92	3/4	1,131.10	3/4	1,490.73	3/4	1,850.39	3/4	2,210.04	3/4	2,569.69	3/4	2,929.27	3/4	3,288.82
2	60.30	2	419.76	2	779.42	2	1,138.59	2	1,498.22	2	1,857.88	2	2,217.53	2	2,577.19	2	2,936.76	2	3,296.31
1/4	67.76	1/4	427.26	1/4	786.91	1/4	1,146.08	1/4	1,505.72	1/4	1,865.37	1/4	2,225.03	1/4	2,584.68	1/4	2,944.25	1/4	3,303.80
1/2	75.21	1/2	434.75	1/2	794.40	1/2	1,153.57	1/2	1,513.21	1/2	1,872.86	1/2	2,232.52	1/2	2,592.17	1/2	2,951.74	1/2	3,311.29
3/4	82.67	3/4	442.24	3/4	801.90	3/4	1,161.05	3/4	1,520.70	3/4	1,880.36	3/4	2,240.01	3/4	2,599.67	3/4	2,959.23	3/4	3,318.78
3	90.13	3	449.73	3	809.39	3	1,168.54	3	1,528.19	3	1,887.85	3	2,247.50	3	2,607.16	3	2,966.72	3	3,326.27
1/4	97.61	1/4	457.23	1/4	816.88	1/4	1,176.03	1/4	1,535.69	1/4	1,895.34	1/4	2,255.00	1/4	2,614.65	1/4	2,974.21	1/4	3,333.76
1/2	105.09	1/2	464.72	1/2	824.37	1/2	1,183.53	1/2	1,543.18	1/2	1,902.83	1/2	2,262.49	1/2	2,622.14	1/2	2,981.71	1/2	3,341.25
3/4	112.57	3/4	472.21	3/4	831.87	3/4	1,191.02	3/4	1,550.67	3/4	1,910.33	3/4	2,269.98	3/4	2,629.64	3/4	2,989.20	3/4	3,348.74
4	120.06	4	479.71	4	839.36	4	1,198.51	4	1,558.17	4	1,917.82	4	2,277.47	4	2,637.13	4	2,996.69	4	3,356.24
1/4	127.55	1/4	487.20	1/4	846.85	1/4	1,206.00	1/4	1,565.66	1/4	1,925.31	1/4	2,284.97	1/4	2,644.62	1/4	3,004.18	1/4	3,363.73
1/2	135.04	1/2	494.69	1/2	854.35	1/2	1,213.50	1/2	1,573.15	1/2	1,932.81	1/2	2,292.46	1/2	2,652.11	1/2	3,011.67	1/2	3,371.22
3/4	142.53	3/4	502.18	3/4	861.84	3/4	1,220.99	3/4	1,580.64	3/4	1,940.30	3/4	2,299.95	3/4	2,659.61	3/4	3,019.16	3/4	3,378.71
5	150.02	5	509.68	5	869.33	5	1,228.48	5	1,588.14	5	1,947.79	5	2,307.45	5	2,667.10	5	3,026.65	5	3,386.20
1/4	157.51	1/4	517.17	1/4	876.81	1/4	1,235.98	1/4	1,595.63	1/4	1,955.28	1/4	2,314.94	1/4	2,674.59	1/4	3,034.14	1/4	3,393.69
1/2	165.01	1/2	524.66	1/2	884.29	1/2	1,243.47	1/2	1,603.12	1/2	1,962.78	1/2	2,322.43	1/2	2,682.08	1/2	3,041.63	1/2	3,401.18
3/4	172.50	3/4	532.15	3/4	891.77	3/4	1,250.96	3/4	1,610.62	3/4	1,970.27	3/4	2,329.92	3/4	2,689.57	3/4	3,049.12	3/4	3,408.67
6	179.99	6	539.65	6	899.24	6	1,258.45	6	1,618.11	6	1,977.76	6	2,337.42	6	2,697.06	6	3,056.61	6	3,416.16
1/4	187.49	1/4	547.14	1/4	906.72	1/4	1,265.95	1/4	1,625.60	1/4	1,985.26	1/4	2,344.91	1/4	2,704.55	1/4	3,064.10	1/4	3,423.65
1/2	194.98	1/2	554.63	1/2	914.20	1/2	1,273.44	1/2	1,633.09	1/2	1,992.75	1/2	2,352.40	1/2	2,712.04	1/2	3,071.59	1/2	3,431.14
3/4	202.47	3/4	562.13	3/4	921.68	3/4	1,280.93	3/4	1,640.59	3/4	2,000.24	3/4	2,359.90	3/4	2,719.53	3/4	3,079.08	3/4	3,438.63
7	209.96	7	569.62	7	929.16	7	1,288.43	7	1,648.08	7	2,007.73	7	2,367.39	7	2,727.03	7	3,086.57	7	3,446.12
1/4	217.46	1/4	577.11	1/4	936.64	1/4	1,295.92	1/4	1,655.57	1/4	2,015.23	1/4	2,374.88	1/4	2,734.52	1/4	3,094.06	1/4	3,453.61
1/2	224.95	1/2	584.60	1/2	944.12	1/2	1,303.41	1/2	1,663.07	1/2	2,022.72	1/2	2,382.37	1/2	2,742.01	1/2	3,101.56	1/2	3,461.10
3/4	232.44	3/4	592.10	3/4	951.59	3/4	1,310.90	3/4	1,670.56	3/4	2,030.21	3/4	2,389.87	3/4	2,749.50	3/4	3,109.05	3/4	3,468.59
8	239.94	8	599.59	8	959.07	8	1,318.40	8	1,678.05	8	2,037.71	8	2,397.36	8	2,756.99	8	3,116.54	8	3,476.09
1/4	247.43	1/4	607.08	1/4	966.55	1/4	1,325.89	1/4	1,685.54	1/4	2,045.20	1/4	2,404.85	1/4	2,764.48	1/4	3,124.03	1/4	3,483.58
1/2	254.92	1/2	614.58	1/2	974.03	1/2	1,333.38	1/2	1,693.04	1/2	2,052.69	1/2	2,412.35	1/2	2,771.97	1/2	3,131.52	1/2	3,491.07
3/4	262.41	3/4	622.07	3/4	981.51	3/4	1,340.87	3/4	1,700.53	3/4	2,060.18	3/4	2,419.84	3/4	2,779.46	3/4	3,139.01	3/4	3,498.56
9	269.91	9	629.56	9	988.99	9	1,348.37	9	1,708.02	9	2,067.68	9	2,427.33	9	2,786.95	9	3,146.50	9	3,506.05
1/4	277.40	1/4	637.05	1/4	996.47	1/4	1,355.86	1/4	1,715.51	1/4	2,075.17	1/4	2,434.82	1/4	2,794.44	1/4	3,153.99	1/4	3,513.54
1/2	284.89	1/2	644.55	1/2	1,003.94	1/2	1,363.35	1/2	1,723.01	1/2	2,082.66	1/2	2,442.32	1/2	2,801.93	1/2	3,161.48	1/2	3,521.03
3/4	292.38	3/4	652.04	3/4	1,011.42	3/4	1,370.85	3/4	1,730.50	3/4	2,090.15	3/4	2,449.81	3/4	2,809.42	3/4	3,168.97	3/4	3,528.52
10	299.88	10	659.53	10	1,018.90	10	1,378.34	10	1,737.99	10	2,097.65	10	2,457.30	10	2,816.91	10	3,176.46	10	3,536.01
1/4	307.37	1/4	667.03	1/4	1,026.38	1/4	1,385.83	1/4	1,745.49	1/4	2,105.14	1/4	2,464.79	1/4	2,824.40	1/4	3,183.95	1/4	3,543.50
1/2	314.86	1/2	674.52	1/2	1,033.86	1/2	1,393.32	1/2	1,752.98	1/2	2,112.63	1/2	2,472.29	1/2	2,831.89	1/2	3,191.44	1/2	3,550.99
3/4	322.35	3/4	682.01	3/4	1,041.34	3/4	1,400.82	3/4	1,760.47	3/4	2,120.13	3/4	2,479.78	3/4	2,839.38	3/4	3,198.93	3/4	3,558.48
11	329.85	11	689.50	11	1,048.81	11	1,408.31	11	1,767.96	11	2,127.62	11	2,487.27	11	2,846.87	11	3,206.42	11	3,565.97
1/4	337.34	1/4	697.00	1/4	1,056.29	1/4	1,415.80	1/4	1,775.46	1/4	2,135.11	1/4	2,494.77	1/4	2,854.37	1/4	3,213.91	1/4	3,573.46
1/2	344.83	1/2	704.49	1/2	1,063.77	1/2	1,423.30	1/2	1,782.95	1/2	2,142.60	1/2	2,502.26	1/2	2,861.86	1/2	3,221.40	1/2	3,580.95
3/4	352.33	3/4	711.98	3/4	1,071.25	3/4	1,430.79	3/4	1,790.44	3/4	2,150.10	3/4	2,509.75	3/4	2,869.35	3/4	3,228.90	3/4	3,588.44

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "E2MS 302"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-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	3,595.93	0	3,955.48	0	4,314.34	0	4,672.85	0	5,029.55	0		0		0		0		0	
1/4	3,603.43	1/4	3,962.97	1/4	4,321.81	1/4	4,680.32	1/4	5,036.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,610.92	1/2	3,970.46	1/2	4,329.28	1/2	4,687.79	1/2	5,044.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,618.41	3/4	3,977.96	3/4	4,336.75	3/4	4,695.26	3/4	5,051.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,625.90	1	3,985.45	1	4,344.22	1	4,702.73	1	5,058.86	1	1	1	1	1	1	1	1	1	1
1/4	3,633.39	1/4	3,992.94	1/4	4,351.69	1/4	4,710.20	1/4	5,065.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,640.88	1/2	4,000.43	1/2	4,359.16	1/2	4,717.67	1/2	5,071.78	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,648.37	3/4	4,007.92	3/4	4,366.62	3/4	4,725.14	3/4	5,078.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,655.86	2	4,015.41	2	4,374.09	2	4,732.61	2	5,084.70	2	2	2	2	2	2	2	2	2	2
1/4	3,663.35	1/4	4,022.90	1/4	4,381.56	1/4	4,740.07	1/4	5,089.91	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,670.84	1/2	4,030.39	1/2	4,389.03	1/2	4,747.54	1/2	5,095.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,678.33	3/4	4,037.88	3/4	4,396.50	3/4	4,755.01	3/4	5,100.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,685.82	3	4,045.37	3	4,403.97	3	4,762.48	3	5,105.55	3	3	3	3	3	3	3	3	3	3
1/4	3,693.31	1/4	4,052.86	1/4	4,411.44	1/4	4,769.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,700.80	1/2	4,060.35	1/2	4,418.91	1/2	4,777.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,708.29	3/4	4,067.84	3/4	4,426.38	3/4	4,784.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,715.78	4	4,075.33	4	4,433.85	4	4,792.36	4		4	4	4	4	4	4	4	4	4	4
1/4	3,723.27	1/4	4,082.80	1/4	4,441.31	1/4	4,799.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,730.77	1/2	4,090.27	1/2	4,448.78	1/2	4,807.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,738.26	3/4	4,097.74	3/4	4,456.25	3/4	4,814.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,745.75	5	4,105.21	5	4,463.72	5	4,822.23	5		5	5	5	5	5	5	5	5	5	5
1/4	3,753.24	1/4	4,112.68	1/4	4,471.19	1/4	4,829.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,760.73	1/2	4,120.15	1/2	4,478.66	1/2	4,837.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,768.22	3/4	4,127.62	3/4	4,486.13	3/4	4,844.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,775.71	6	4,135.09	6	4,493.60	6	4,852.11	6		6	6	6	6	6	6	6	6	6	6
1/4	3,783.20	1/4	4,142.55	1/4	4,501.07	1/4	4,859.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,790.69	1/2	4,150.02	1/2	4,508.54	1/2	4,866.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,798.18	3/4	4,157.49	3/4	4,516.00	3/4	4,874.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,805.67	7	4,164.96	7	4,523.47	7	4,881.69	7		7	7	7	7	7	7	7	7	7	7
1/4	3,813.16	1/4	4,172.43	1/4	4,530.94	1/4	4,889.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,820.65	1/2	4,179.90	1/2	4,538.41	1/2	4,896.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,828.14	3/4	4,187.37	3/4	4,545.88	3/4	4,903.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,835.63	8	4,194.84	8	4,553.35	8	4,911.27	8		8	8	8	8	8	8	8	8	8	8
1/4	3,843.12	1/4	4,202.31	1/4	4,560.82	1/4	4,918.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,850.62	1/2	4,209.78	1/2	4,568.29	1/2	4,926.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,858.11	3/4	4,217.24	3/4	4,575.76	3/4	4,933.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,865.60	9	4,224.71	9	4,583.23	9	4,940.85	9		9	9	9	9	9	9	9	9	9	9
1/4	3,873.09	1/4	4,232.18	1/4	4,590.69	1/4	4,948.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,880.58	1/2	4,239.65	1/2	4,598.16	1/2	4,955.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,888.07	3/4	4,247.12	3/4	4,605.63	3/4	4,963.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,895.56	10	4,254.59	10	4,613.10	10	4,970.44	10		10	10	10	10	10	10	10	10	10	10
1/4	3,903.05	1/4	4,262.06	1/4	4,620.57	1/4	4,977.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,910.54	1/2	4,269.53	1/2	4,628.04	1/2	4,985.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,918.03	3/4	4,277.00	3/4	4,635.51	3/4	4,992.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,925.52	11	4,284.47	11	4,642.98	11	5,000.02	11		11	11	11	11	11	11	11	11	11	11
1/4	3,933.01	1/4	4,291.93	1/4	4,650.45	1/4	5,007.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,940.50	1/2	4,299.40	1/2	4,657.92	1/2	5,014.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,947.99	3/4	4,306.87	3/4	4,665.38	3/4	5,022.17	3/4		3/4	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: 08/27/2013 SW
CALCULATED: 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.29	0	358.30	0	715.98	0	1,063.98	0	1,417.64	0	1,775.01	0	2,131.64	0	2,488.99	0	2,846.06	0	3,203.10
1/4	19.96	1/4	365.75	1/4	723.43	1/4	1,071.13	1/4	1,425.09	1/4	1,782.44	1/4	2,139.09	1/4	2,496.43	1/4	2,853.50	1/4	3,210.51
1/2	24.62	1/2	373.21	1/2	730.88	1/2	1,078.29	1/2	1,432.53	1/2	1,789.87	1/2	2,146.53	1/2	2,503.87	1/2	2,860.94	1/2	3,217.92
3/4	29.29	3/4	380.66	3/4	738.33	3/4	1,085.44	3/4	1,439.98	3/4	1,797.30	3/4	2,153.97	3/4	2,511.31	3/4	2,868.38	3/4	3,225.33
1	33.95	1	388.11	1	745.78	1	1,092.60	1	1,447.43	1	1,804.73	1	2,161.42	1	2,518.75	1	2,875.81	1	3,232.74
1/4	40.48	1/4	395.56	1/4	753.23	1/4	1,099.82	1/4	1,454.87	1/4	1,812.16	1/4	2,168.86	1/4	2,526.19	1/4	2,883.25	1/4	3,240.15
1/2	47.01	1/2	403.01	1/2	760.68	1/2	1,107.05	1/2	1,462.32	1/2	1,819.59	1/2	2,176.30	1/2	2,533.63	1/2	2,890.69	1/2	3,247.56
3/4	53.54	3/4	410.46	3/4	768.14	3/4	1,114.27	3/4	1,469.77	3/4	1,827.02	3/4	2,183.74	3/4	2,541.07	3/4	2,898.13	3/4	3,254.97
2	60.07	2	417.92	2	775.59	2	1,121.50	2	1,477.21	2	1,834.45	2	2,191.19	2	2,548.51	2	2,905.57	2	3,262.38
1/4	67.49	1/4	425.37	1/4	783.04	1/4	1,128.72	1/4	1,484.66	1/4	1,841.88	1/4	2,198.63	1/4	2,555.95	1/4	2,913.01	1/4	3,269.79
1/2	74.92	1/2	432.82	1/2	790.49	1/2	1,135.95	1/2	1,492.11	1/2	1,849.31	1/2	2,206.07	1/2	2,563.39	1/2	2,920.45	1/2	3,277.20
3/4	82.35	3/4	440.27	3/4	797.94	3/4	1,143.17	3/4	1,499.55	3/4	1,856.74	3/4	2,213.52	3/4	2,570.83	3/4	2,927.88	3/4	3,284.61
3	89.77	3	447.72	3	805.39	3	1,150.40	3	1,507.00	3	1,864.17	3	2,220.96	3	2,578.27	3	2,935.32	3	3,292.02
1/4	97.22	1/4	455.17	1/4	812.78	1/4	1,157.64	1/4	1,514.45	1/4	1,871.60	1/4	2,228.40	1/4	2,585.71	1/4	2,942.76	1/4	3,299.43
1/2	104.68	1/2	462.62	1/2	820.17	1/2	1,164.88	1/2	1,521.89	1/2	1,879.03	1/2	2,235.85	1/2	2,593.15	1/2	2,950.20	1/2	3,306.84
3/4	112.13	3/4	470.08	3/4	827.55	3/4	1,172.11	3/4	1,529.34	3/4	1,886.46	3/4	2,243.29	3/4	2,600.59	3/4	2,957.64	3/4	3,314.25
4	119.58	4	477.53	4	834.94	4	1,179.35	4	1,536.79	4	1,893.89	4	2,250.73	4	2,608.03	4	2,965.08	4	3,321.66
1/4	127.04	1/4	484.98	1/4	842.12	1/4	1,186.80	1/4	1,544.23	1/4	1,901.32	1/4	2,258.18	1/4	2,615.47	1/4	2,972.51	1/4	3,329.07
1/2	134.51	1/2	492.43	1/2	849.30	1/2	1,194.25	1/2	1,551.68	1/2	1,908.75	1/2	2,265.62	1/2	2,622.91	1/2	2,979.95	1/2	3,336.48
3/4	141.97	3/4	499.88	3/4	856.47	3/4	1,201.69	3/4	1,559.13	3/4	1,916.18	3/4	2,273.06	3/4	2,630.35	3/4	2,987.39	3/4	3,343.89
5	149.43	5	507.33	5	863.65	5	1,209.14	5	1,566.57	5	1,923.61	5	2,280.51	5	2,637.79	5	2,994.83	5	3,351.30
1/4	156.89	1/4	514.78	1/4	870.80	1/4	1,216.59	1/4	1,574.02	1/4	1,931.04	1/4	2,287.95	1/4	2,645.22	1/4	3,002.27	1/4	3,358.70
1/2	164.36	1/2	522.24	1/2	877.96	1/2	1,224.03	1/2	1,581.46	1/2	1,938.47	1/2	2,295.40	1/2	2,652.66	1/2	3,009.71	1/2	3,366.11
3/4	171.82	3/4	529.69	3/4	885.11	3/4	1,231.48	3/4	1,588.91	3/4	1,945.90	3/4	2,302.85	3/4	2,660.10	3/4	3,017.14	3/4	3,373.52
6	179.28	6	537.14	6	892.27	6	1,238.93	6	1,596.36	6	1,953.33	6	2,310.30	6	2,667.54	6	3,024.58	6	3,380.92
1/4	186.74	1/4	544.59	1/4	899.42	1/4	1,246.37	1/4	1,603.80	1/4	1,960.76	1/4	2,317.75	1/4	2,674.98	1/4	3,032.02	1/4	3,388.32
1/2	194.21	1/2	552.04	1/2	906.58	1/2	1,253.82	1/2	1,611.25	1/2	1,968.19	1/2	2,325.20	1/2	2,682.42	1/2	3,039.46	1/2	3,395.71
3/4	201.67	3/4	559.49	3/4	913.73	3/4	1,261.27	3/4	1,618.70	3/4	1,975.62	3/4	2,332.65	3/4	2,689.85	3/4	3,046.90	3/4	3,403.11
7	209.13	7	566.95	7	920.89	7	1,268.71	7	1,626.14	7	1,983.05	7	2,340.09	7	2,697.29	7	3,054.34	7	3,410.51
1/4	216.60	1/4	574.40	1/4	928.04	1/4	1,276.16	1/4	1,633.59	1/4	1,990.48	1/4	2,347.54	1/4	2,704.73	1/4	3,061.77	1/4	3,417.68
1/2	224.06	1/2	581.85	1/2	935.20	1/2	1,283.60	1/2	1,641.04	1/2	1,997.91	1/2	2,354.99	1/2	2,712.17	1/2	3,069.21	1/2	3,424.85
3/4	231.52	3/4	589.30	3/4	942.35	3/4	1,291.05	3/4	1,648.48	3/4	2,005.34	3/4	2,362.44	3/4	2,719.61	3/4	3,076.65	3/4	3,432.01
8	238.99	8	596.75	8	949.51	8	1,298.50	8	1,655.93	8	2,012.77	8	2,369.89	8	2,727.05	8	3,084.09	8	3,439.18
1/4	246.45	1/4	604.20	1/4	956.66	1/4	1,305.94	1/4	1,663.38	1/4	2,020.20	1/4	2,377.34	1/4	2,734.49	1/4	3,091.53	1/4	3,445.87
1/2	253.91	1/2	611.65	1/2	963.81	1/2	1,313.39	1/2	1,670.82	1/2	2,027.63	1/2	2,384.79	1/2	2,741.92	1/2	3,098.97	1/2	3,452.56
3/4	261.38	3/4	619.11	3/4	970.97	3/4	1,320.84	3/4	1,678.27	3/4	2,035.06	3/4	2,392.23	3/4	2,749.36	3/4	3,106.41	3/4	3,459.25
9	268.84	9	626.56	9	978.12	9	1,328.28	9	1,685.72	9	2,042.49	9	2,399.68	9	2,756.80	9	3,113.84	9	3,465.94
1/4	276.30	1/4	634.01	1/4	985.28	1/4	1,335.73	1/4	1,693.16	1/4	2,049.91	1/4	2,407.13	1/4	2,764.24	1/4	3,121.28	1/4	3,472.16
1/2	283.76	1/2	641.46	1/2	992.43	1/2	1,343.18	1/2	1,700.61	1/2	2,057.33	1/2	2,414.58	1/2	2,771.68	1/2	3,128.72	1/2	3,478.37
3/4	291.23	3/4	648.91	3/4	999.59	3/4	1,350.62	3/4	1,708.06	3/4	2,064.76	3/4	2,422.03	3/4	2,779.12	3/4	3,136.16	3/4	3,484.58
10	298.69	10	656.36	10	1,006.74	10	1,358.07	10	1,715.50	10	2,072.18	10	2,429.48	10	2,786.55	10	3,143.60	10	3,490.79
1/4	306.14	1/4	663.81	1/4	1,013.90	1/4	1,365.52	1/4	1,722.95	1/4	2,079.60	1/4	2,436.92	1/4	2,793.99	1/4	3,151.04	1/4	3,496.54
1/2	313.59	1/2	671.27	1/2	1,021.05	1/2	1,372.96	1/2	1,730.39	1/2	2,087.02	1/2	2,444.36	1/2	2,801.43	1/2	3,158.47	1/2	3,502.28
3/4	321.05	3/4	678.72	3/4	1,028.21	3/4	1,380.41	3/4	1,737.84	3/4	2,094.45	3/4	2,451.80	3/4	2,808.87	3/4	3,165.91	3/4	3,508.03
11	328.50	11	686.17	11	1,035.36	11	1,387.86	11	1,745.29	11	2,101.87	11	2,459.24	11	2,816.31	11	3,173.35	11	3,513.77
1/4	335.95	1/4	693.62	1/4	1,042.52	1/4	1,395.30	1/4	1,752.72	1/4	2,109.31	1/4	2,466.68	1/4	2,823.75	1/4	3,180.79	1/4	3,519.03
1/2	343.40	1/2	701.07	1/2	1,049.67	1/2	1,402.75	1/2	1,760.15	1/2	2,116.76	1/2	2,474.11	1/2	2,831.18	1/2	3,188.23	1/2	3,524.30
3/4	350.85	3/4	708.52	3/4	1,056.82	3/4	1,410.20	3/4	1,767.58	3/4	2,124.20	3/4	2,481.55	3/4	2,838.62	3/4	3,195.67	3/4	3,529.56

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

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	3,534.83	0	3,755.68	0	3,975.17	0	4,194.46	0	4,412.65	0		0		0		0		0	
1/4	3,539.65	1/4	3,760.26	1/4	3,979.74	1/4	4,199.03	1/4	4,417.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,544.47	1/2	3,764.85	1/2	3,984.31	1/2	4,203.60	1/2	4,421.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,549.29	3/4	3,769.43	3/4	3,988.88	3/4	4,208.17	3/4	4,426.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,554.11	1	3,774.01	1	3,993.45	1	4,212.74	1	4,430.58	1	1	1	1	1	1	1	1	1	1
1/4	3,558.69	1/4	3,778.59	1/4	3,998.02	1/4	4,217.31	1/4	4,434.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,563.27	1/2	3,783.17	1/2	4,002.59	1/2	4,221.87	1/2	4,438.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,567.85	3/4	3,787.75	3/4	4,007.15	3/4	4,226.44	3/4	4,442.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,572.44	2	3,792.33	2	4,011.72	2	4,231.01	2	4,446.39	2	2	2	2	2	2	2	2	2	2
1/4	3,577.02	1/4	3,796.91	1/4	4,016.29	1/4	4,235.58	1/4	4,449.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,581.60	1/2	3,801.50	1/2	4,020.86	1/2	4,240.15	1/2	4,452.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,586.18	3/4	3,806.08	3/4	4,025.43	3/4	4,244.72	3/4	4,455.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,590.76	3	3,810.66	3	4,030.00	3	4,249.28	3	4,459.14	3	3	3	3	3	3	3	3	3	3
1/4	3,595.34	1/4	3,815.24	1/4	4,034.57	1/4	4,253.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,599.92	1/2	3,819.82	1/2	4,039.13	1/2	4,258.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,604.50	3/4	3,824.40	3/4	4,043.70	3/4	4,262.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,609.09	4	3,828.98	4	4,048.27	4	4,267.56	4		4	4	4	4	4	4	4	4	4	4
1/4	3,613.67	1/4	3,833.55	1/4	4,052.84	1/4	4,272.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,618.25	1/2	3,838.12	1/2	4,057.41	1/2	4,276.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,622.83	3/4	3,842.69	3/4	4,061.98	3/4	4,281.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,627.41	5	3,847.26	5	4,066.54	5	4,285.83	5		5	5	5	5	5	5	5	5	5	5
1/4	3,631.99	1/4	3,851.83	1/4	4,071.11	1/4	4,290.40	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,636.57	1/2	3,856.39	1/2	4,075.68	1/2	4,294.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,641.15	3/4	3,860.96	3/4	4,080.25	3/4	4,299.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,645.73	6	3,865.53	6	4,084.82	6	4,304.11	6		6	6	6	6	6	6	6	6	6	6
1/4	3,650.32	1/4	3,870.10	1/4	4,089.39	1/4	4,308.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,654.90	1/2	3,874.67	1/2	4,093.96	1/2	4,313.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,659.48	3/4	3,879.24	3/4	4,098.52	3/4	4,317.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,664.06	7	3,883.80	7	4,103.09	7	4,322.20	7		7	7	7	7	7	7	7	7	7	7
1/4	3,668.64	1/4	3,888.37	1/4	4,107.66	1/4	4,326.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,673.22	1/2	3,892.94	1/2	4,112.23	1/2	4,331.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,677.80	3/4	3,897.51	3/4	4,116.80	3/4	4,335.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,682.38	8	3,902.08	8	4,121.37	8	4,340.30	8		8	8	8	8	8	8	8	8	8	8
1/4	3,686.97	1/4	3,906.65	1/4	4,125.94	1/4	4,344.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,691.55	1/2	3,911.22	1/2	4,130.50	1/2	4,349.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,696.13	3/4	3,915.78	3/4	4,135.07	3/4	4,353.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,700.71	9	3,920.35	9	4,139.64	9	4,358.39	9		9	9	9	9	9	9	9	9	9	9
1/4	3,705.29	1/4	3,924.92	1/4	4,144.21	1/4	4,362.92	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,709.87	1/2	3,929.49	1/2	4,148.78	1/2	4,367.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,714.45	3/4	3,934.06	3/4	4,153.35	3/4	4,371.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,719.03	10	3,938.63	10	4,157.91	10	4,376.49	10		10	10	10	10	10	10	10	10	10	10
1/4	3,723.62	1/4	3,943.20	1/4	4,162.48	1/4	4,381.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,728.20	1/2	3,947.76	1/2	4,167.05	1/2	4,385.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,732.78	3/4	3,952.33	3/4	4,171.62	3/4	4,390.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,737.36	11	3,956.90	11	4,176.19	11	4,394.59	11		11	11	11	11	11	11	11	11	11	11
1/4	3,741.94	1/4	3,961.47	1/4	4,180.76	1/4	4,399.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,746.52	1/2	3,966.04	1/2	4,185.33	1/2	4,403.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,751.10	3/4	3,970.61	3/4	4,189.89	3/4	4,408.14	3/4		3/4	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: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "E2MS 302"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.28	0	358.20	0	716.23	0	1,073.86	0	1,431.80	0	1,789.84	0	2,147.89	0	2,505.85	0	2,863.43	0	3,220.97
1/4	19.95	1/4	365.66	1/4	723.69	1/4	1,081.31	1/4	1,439.26	1/4	1,797.30	1/4	2,155.34	1/4	2,513.30	1/4	2,870.87	1/4	3,228.39
1/2	24.61	1/2	373.12	1/2	731.15	1/2	1,088.75	1/2	1,446.72	1/2	1,804.76	1/2	2,162.80	1/2	2,520.75	1/2	2,878.32	1/2	3,235.81
3/4	29.27	3/4	380.58	3/4	738.61	3/4	1,096.20	3/4	1,454.18	3/4	1,812.22	3/4	2,170.26	3/4	2,528.20	3/4	2,885.77	3/4	3,243.23
1	33.93	1	388.03	1	746.07	1	1,103.64	1	1,461.64	1	1,819.68	1	2,177.72	1	2,535.65	1	2,893.22	1	3,250.66
1/4	40.46	1/4	395.49	1/4	753.53	1/4	1,111.09	1/4	1,469.10	1/4	1,827.14	1/4	2,185.18	1/4	2,543.10	1/4	2,900.67	1/4	3,258.08
1/2	46.98	1/2	402.95	1/2	760.98	1/2	1,118.55	1/2	1,476.56	1/2	1,834.60	1/2	2,192.64	1/2	2,550.56	1/2	2,908.12	1/2	3,265.50
3/4	53.51	3/4	410.41	3/4	768.44	3/4	1,126.00	3/4	1,484.02	3/4	1,842.06	3/4	2,200.10	3/4	2,558.01	3/4	2,915.57	3/4	3,272.92
2	60.03	2	417.87	2	775.90	2	1,133.46	2	1,491.48	2	1,849.52	2	2,207.56	2	2,565.46	2	2,923.02	2	3,280.34
1/4	67.45	1/4	425.33	1/4	783.36	1/4	1,140.91	1/4	1,498.94	1/4	1,856.98	1/4	2,215.02	1/4	2,572.91	1/4	2,930.47	1/4	3,287.76
1/2	74.88	1/2	432.79	1/2	790.82	1/2	1,148.36	1/2	1,506.39	1/2	1,864.44	1/2	2,222.48	1/2	2,580.36	1/2	2,937.91	1/2	3,295.18
3/4	82.30	3/4	440.25	3/4	798.28	3/4	1,155.82	3/4	1,513.85	3/4	1,871.90	3/4	2,229.94	3/4	2,587.81	3/4	2,945.36	3/4	3,302.60
3	89.72	3	447.71	3	805.74	3	1,163.27	3	1,521.31	3	1,879.35	3	2,237.40	3	2,595.26	3	2,952.81	3	3,310.02
1/4	97.17	1/4	455.17	1/4	813.20	1/4	1,170.73	1/4	1,528.77	1/4	1,886.81	1/4	2,244.86	1/4	2,602.71	1/4	2,960.26	1/4	3,317.44
1/2	104.62	1/2	462.62	1/2	820.66	1/2	1,178.19	1/2	1,536.23	1/2	1,894.27	1/2	2,252.31	1/2	2,610.16	1/2	2,967.71	1/2	3,324.86
3/4	112.07	3/4	470.08	3/4	828.12	3/4	1,185.65	3/4	1,543.69	3/4	1,901.73	3/4	2,259.77	3/4	2,617.61	3/4	2,975.16	3/4	3,332.28
4	119.52	4	477.54	4	835.57	4	1,193.11	4	1,551.15	4	1,909.19	4	2,267.23	4	2,625.06	4	2,982.61	4	3,339.70
1/4	126.97	1/4	485.00	1/4	843.03	1/4	1,200.57	1/4	1,558.61	1/4	1,916.65	1/4	2,274.69	1/4	2,632.51	1/4	2,990.06	1/4	3,347.12
1/2	134.43	1/2	492.46	1/2	850.49	1/2	1,208.03	1/2	1,566.07	1/2	1,924.11	1/2	2,282.15	1/2	2,639.96	1/2	2,997.51	1/2	3,354.54
3/4	141.89	3/4	499.92	3/4	857.95	3/4	1,215.49	3/4	1,573.53	3/4	1,931.57	3/4	2,289.61	3/4	2,647.41	3/4	3,004.95	3/4	3,361.96
5	149.35	5	507.38	5	865.41	5	1,222.94	5	1,580.99	5	1,939.03	5	2,297.07	5	2,654.86	5	3,012.40	5	3,369.38
1/4	156.81	1/4	514.84	1/4	872.86	1/4	1,230.40	1/4	1,588.45	1/4	1,946.49	1/4	2,304.53	1/4	2,662.31	1/4	3,019.85	1/4	3,376.80
1/2	164.26	1/2	522.30	1/2	880.30	1/2	1,237.86	1/2	1,595.90	1/2	1,953.95	1/2	2,311.99	1/2	2,669.75	1/2	3,027.30	1/2	3,384.22
3/4	171.72	3/4	529.76	3/4	887.74	3/4	1,245.32	3/4	1,603.36	3/4	1,961.41	3/4	2,319.45	3/4	2,677.20	3/4	3,034.75	3/4	3,391.63
6	179.18	6	537.21	6	895.19	6	1,252.78	6	1,610.82	6	1,968.86	6	2,326.91	6	2,684.65	6	3,042.20	6	3,399.05
1/4	186.64	1/4	544.67	1/4	902.63	1/4	1,260.24	1/4	1,618.28	1/4	1,976.32	1/4	2,334.37	1/4	2,692.10	1/4	3,049.65	1/4	3,406.46
1/2	194.10	1/2	552.13	1/2	910.08	1/2	1,267.70	1/2	1,625.74	1/2	1,983.78	1/2	2,341.82	1/2	2,699.55	1/2	3,057.10	1/2	3,413.86
3/4	201.56	3/4	559.59	3/4	917.52	3/4	1,275.16	3/4	1,633.20	3/4	1,991.24	3/4	2,349.28	3/4	2,707.00	3/4	3,064.55	3/4	3,421.27
7	209.02	7	567.05	7	924.97	7	1,282.62	7	1,640.66	7	1,998.70	7	2,356.74	7	2,714.45	7	3,071.99	7	3,428.68
1/4	216.48	1/4	574.51	1/4	932.41	1/4	1,290.08	1/4	1,648.12	1/4	2,006.16	1/4	2,364.20	1/4	2,721.90	1/4	3,079.44	1/4	3,435.86
1/2	223.94	1/2	581.97	1/2	939.86	1/2	1,297.54	1/2	1,655.58	1/2	2,013.62	1/2	2,371.66	1/2	2,729.35	1/2	3,086.89	1/2	3,443.04
3/4	231.40	3/4	589.43	3/4	947.30	3/4	1,305.00	3/4	1,663.04	3/4	2,021.08	3/4	2,379.12	3/4	2,736.79	3/4	3,094.34	3/4	3,450.22
8	238.85	8	596.89	8	954.75	8	1,312.46	8	1,670.50	8	2,028.54	8	2,386.58	8	2,744.24	8	3,101.79	8	3,457.40
1/4	246.31	1/4	604.35	1/4	962.19	1/4	1,319.91	1/4	1,677.96	1/4	2,036.00	1/4	2,394.04	1/4	2,751.69	1/4	3,109.24	1/4	3,464.10
1/2	253.77	1/2	611.80	1/2	969.64	1/2	1,327.37	1/2	1,685.42	1/2	2,043.46	1/2	2,401.50	1/2	2,759.14	1/2	3,116.69	1/2	3,470.80
3/4	261.23	3/4	619.26	3/4	977.08	3/4	1,334.83	3/4	1,692.87	3/4	2,050.92	3/4	2,408.96	3/4	2,766.59	3/4	3,124.14	3/4	3,477.50
9	268.69	9	626.72	9	984.53	9	1,342.29	9	1,700.33	9	2,058.38	9	2,416.42	9	2,774.04	9	3,131.59	9	3,484.20
1/4	276.15	1/4	634.18	1/4	991.97	1/4	1,349.75	1/4	1,707.79	1/4	2,065.83	1/4	2,423.88	1/4	2,781.49	1/4	3,139.03	1/4	3,490.42
1/2	283.61	1/2	641.64	1/2	999.42	1/2	1,357.21	1/2	1,715.25	1/2	2,073.29	1/2	2,431.34	1/2	2,788.94	1/2	3,146.48	1/2	3,496.64
3/4	291.07	3/4	649.10	3/4	1,006.86	3/4	1,364.67	3/4	1,722.71	3/4	2,080.75	3/4	2,438.79	3/4	2,796.39	3/4	3,153.93	3/4	3,502.86
10	298.53	10	656.56	10	1,014.30	10	1,372.13	10	1,730.17	10	2,088.21	10	2,446.25	10	2,803.83	10	3,161.38	10	3,509.08
1/4	305.99	1/4	664.02	1/4	1,021.75	1/4	1,379.59	1/4	1,737.63	1/4	2,095.67	1/4	2,453.70	1/4	2,811.28	1/4	3,168.83	1/4	3,514.83
1/2	313.44	1/2	671.48	1/2	1,029.19	1/2	1,387.05	1/2	1,745.09	1/2	2,103.13	1/2	2,461.15	1/2	2,818.73	1/2	3,176.28	1/2	3,520.57
3/4	320.90	3/4	678.94	3/4	1,036.64	3/4	1,394.51	3/4	1,752.55	3/4	2,110.59	3/4	2,468.60	3/4	2,826.18	3/4	3,183.73	3/4	3,526.31
11	328.36	11	686.39	11	1,044.08	11	1,401.97	11	1,760.01	11	2,118.05	11	2,476.05	11	2,833.63	11	3,191.18	11	3,532.05
1/4	335.82	1/4	693.85	1/4	1,051.53	1/4	1,409.43	1/4	1,767.47	1/4	2,125.51	1/4	2,483.50	1/4	2,841.08	1/4	3,198.63	1/4	3,537.31
1/2	343.28	1/2	701.31	1/2	1,058.97	1/2	1,416.88	1/2	1,774.93	1/2	2,132.97	1/2	2,490.95	1/2	2,848.53	1/2	3,206.08	1/2	3,542.57
3/4	350.74	3/4	708.77	3/4	1,066.42	3/4	1,424.34	3/4	1,782.38	3/4	2,140.43	3/4	2,498.40	3/4	2,855.98	3/4	3,213.52	3/4	3,547.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,553.10	0	3,773.87	0	3,993.28	0	4,212.48	0	4,430.57	0		0		0		0		0	
1/4	3,557.92	1/4	3,778.45	1/4	3,997.84	1/4	4,217.05	1/4	4,435.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,562.74	1/2	3,783.03	1/2	4,002.41	1/2	4,221.62	1/2	4,439.53	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,567.55	3/4	3,787.61	3/4	4,006.98	3/4	4,226.18	3/4	4,444.01	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,572.37	1	3,792.19	1	4,011.54	1	4,230.75	1	4,448.49	1	1	1	1	1	1	1	1	1	1
1/4	3,576.95	1/4	3,796.76	1/4	4,016.11	1/4	4,235.32	1/4	4,452.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,581.53	1/2	3,801.34	1/2	4,020.68	1/2	4,239.88	1/2	4,456.39	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,586.11	3/4	3,805.92	3/4	4,025.24	3/4	4,244.45	3/4	4,460.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,590.69	2	3,810.50	2	4,029.81	2	4,249.02	2	4,464.29	2	2	2	2	2	2	2	2	2	2
1/4	3,595.27	1/4	3,815.08	1/4	4,034.38	1/4	4,253.58	1/4	4,467.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,599.85	1/2	3,819.66	1/2	4,038.94	1/2	4,258.15	1/2	4,470.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,604.43	3/4	3,824.24	3/4	4,043.51	3/4	4,262.72	3/4	4,473.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,609.01	3	3,828.82	3	4,048.08	3	4,267.28	3	4,477.03	3	3	3	3	3	3	3	3	3	3
1/4	3,613.59	1/4	3,833.40	1/4	4,052.64	1/4	4,271.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,618.17	1/2	3,837.98	1/2	4,057.21	1/2	4,276.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,622.75	3/4	3,842.56	3/4	4,061.78	3/4	4,280.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,627.33	4	3,847.14	4	4,066.34	4	4,285.55	4		4	4	4	4	4	4	4	4	4	4
1/4	3,631.91	1/4	3,851.70	1/4	4,070.91	1/4	4,290.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,636.49	1/2	3,856.27	1/2	4,075.48	1/2	4,294.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,641.07	3/4	3,860.84	3/4	4,080.04	3/4	4,299.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,645.64	5	3,865.41	5	4,084.61	5	4,303.82	5		5	5	5	5	5	5	5	5	5	5
1/4	3,650.22	1/4	3,869.97	1/4	4,089.18	1/4	4,308.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,654.80	1/2	3,874.54	1/2	4,093.75	1/2	4,312.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,659.38	3/4	3,879.11	3/4	4,098.31	3/4	4,317.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,663.96	6	3,883.67	6	4,102.88	6	4,322.09	6		6	6	6	6	6	6	6	6	6	6
1/4	3,668.54	1/4	3,888.24	1/4	4,107.45	1/4	4,326.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,673.12	1/2	3,892.81	1/2	4,112.01	1/2	4,331.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,677.70	3/4	3,897.37	3/4	4,116.58	3/4	4,335.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,682.28	7	3,901.94	7	4,121.15	7	4,340.17	7		7	7	7	7	7	7	7	7	7	7
1/4	3,686.86	1/4	3,906.51	1/4	4,125.71	1/4	4,344.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,691.44	1/2	3,911.07	1/2	4,130.28	1/2	4,349.21	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,696.02	3/4	3,915.64	3/4	4,134.85	3/4	4,353.73	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,700.60	8	3,920.21	8	4,139.41	8	4,358.25	8		8	8	8	8	8	8	8	8	8	8
1/4	3,705.18	1/4	3,924.77	1/4	4,143.98	1/4	4,362.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,709.76	1/2	3,929.34	1/2	4,148.55	1/2	4,367.30	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,714.34	3/4	3,933.91	3/4	4,153.11	3/4	4,371.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,718.91	9	3,938.47	9	4,157.68	9	4,376.34	9		9	9	9	9	9	9	9	9	9	9
1/4	3,723.49	1/4	3,943.04	1/4	4,162.25	1/4	4,380.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,728.07	1/2	3,947.61	1/2	4,166.81	1/2	4,385.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,732.65	3/4	3,952.17	3/4	4,171.38	3/4	4,389.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,737.23	10	3,956.74	10	4,175.95	10	4,394.43	10		10	10	10	10	10	10	10	10	10	10
1/4	3,741.81	1/4	3,961.31	1/4	4,180.51	1/4	4,398.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,746.39	1/2	3,965.87	1/2	4,185.08	1/2	4,403.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,750.97	3/4	3,970.44	3/4	4,189.65	3/4	4,407.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,755.55	11	3,975.01	11	4,194.21	11	4,412.51	11		11	11	11	11	11	11	11	11	11	11
1/4	3,760.13	1/4	3,979.58	1/4	4,198.78	1/4	4,417.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,764.71	1/2	3,984.14	1/2	4,203.35	1/2	4,421.54	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,769.29	3/4	3,988.71	3/4	4,207.92	3/4	4,426.05	3/4		3/4	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: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	433	0	1,021	0	1,641	0	2,206	0		0		0		0		0	
1/4	5	1/4	444	1/4	1,034	1/4	1,653	1/4	2,216	1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	456	1/2	1,047	1/2	1,666	1/2	2,227	1/2		1/2		1/2		1/2		1/2	
3/4	16	3/4	467	3/4	1,060	3/4	1,678	3/4	2,237	3/4		3/4		3/4		3/4		3/4	
1	21	1	479	1	1,073	1	1,691	1	2,247	1		1		1		1		1	
1/4	28	1/4	490	1/4	1,086	1/4	1,703	1/4	2,257	1/4		1/4		1/4		1/4		1/4	
1/2	35	1/2	502	1/2	1,099	1/2	1,716	1/2	2,267	1/2		1/2		1/2		1/2		1/2	
3/4	41	3/4	513	3/4	1,111	3/4	1,729	3/4	2,277	3/4		3/4		3/4		3/4		3/4	
2	48	2	525	2	1,124	2	1,741	2	2,287	2		2		2		2		2	
1/4	56	1/4	537	1/4	1,137	1/4	1,753	1/4	2,297	1/4		1/4		1/4		1/4		1/4	
1/2	63	1/2	549	1/2	1,150	1/2	1,766	1/2	2,306	1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	560	3/4	1,163	3/4	1,778	3/4	2,316	3/4		3/4		3/4		3/4		3/4	
3	78	3	572	3	1,176	3	1,791	3	2,326	3		3		3		3		3	
1/4	86	1/4	584	1/4	1,189	1/4	1,803	1/4	2,335	1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	596	1/2	1,202	1/2	1,815	1/2	2,344	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	608	3/4	1,215	3/4	1,827	3/4	2,353	3/4		3/4		3/4		3/4		3/4	
4	111	4	620	4	1,228	4	1,840	4	2,362	4		4		4		4		4	
1/4	120	1/4	632	1/4	1,241	1/4	1,852	1/4	2,371	1/4		1/4		1/4		1/4		1/4	
1/2	128	1/2	644	1/2	1,254	1/2	1,864	1/2	2,380	1/2		1/2		1/2		1/2		1/2	
3/4	137	3/4	656	3/4	1,267	3/4	1,876	3/4	2,389	3/4		3/4		3/4		3/4		3/4	
5	146	5	669	5	1,280	5	1,888	5	2,397	5		5		5		5		5	
1/4	155	1/4	681	1/4	1,293	1/4	1,900	1/4	2,406	1/4		1/4		1/4		1/4		1/4	
1/2	164	1/2	693	1/2	1,306	1/2	1,912	1/2	2,414	1/2		1/2		1/2		1/2		1/2	
3/4	173	3/4	705	3/4	1,319	3/4	1,924	3/4	2,422	3/4		3/4		3/4		3/4		3/4	
6	183	6	718	6	1,332	6	1,936	6	2,430	6		6		6		6		6	
1/4	192	1/4	730	1/4	1,345	1/4	1,948	1/4	2,438	1/4		1/4		1/4		1/4		1/4	
1/2	202	1/2	742	1/2	1,358	1/2	1,960	1/2	2,445	1/2		1/2		1/2		1/2		1/2	
3/4	211	3/4	755	3/4	1,371	3/4	1,971	3/4	2,453	3/4		3/4		3/4		3/4		3/4	
7	221	7	767	7	1,384	7	1,983	7	2,460	7		7		7		7		7	
1/4	231	1/4	780	1/4	1,397	1/4	1,995	1/4	2,467	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	792	1/2	1,410	1/2	2,006	1/2	2,473	1/2		1/2		1/2		1/2		1/2	
3/4	251	3/4	805	3/4	1,423	3/4	2,018	3/4	2,480	3/4		3/4		3/4		3/4		3/4	
8	261	8	817	8	1,436	8	2,030	8	2,487	8		8		8		8		8	
1/4	271	1/4	830	1/4	1,449	1/4	2,041	1/4	2,492	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	843	1/2	1,461	1/2	2,052	1/2	2,498	1/2		1/2		1/2		1/2		1/2	
3/4	292	3/4	855	3/4	1,474	3/4	2,064	3/4	2,503	3/4		3/4		3/4		3/4		3/4	
9	302	9	868	9	1,487	9	2,075	9	2,508	9		9		9		9		9	
1/4	313	1/4	880	1/4	1,500	1/4	2,086	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	324	1/2	893	1/2	1,513	1/2	2,098	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	334	3/4	906	3/4	1,526	3/4	2,109	3/4		3/4		3/4		3/4		3/4		3/4	
10	345	10	919	10	1,539	10	2,120	10		10		10		10		10		10	
1/4	356	1/4	931	1/4	1,551	1/4	2,131	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	367	1/2	944	1/2	1,564	1/2	2,142	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378	3/4	957	3/4	1,577	3/4	2,153	3/4		3/4		3/4		3/4		3/4		3/4	
11	388	11	970	11	1,590	11	2,163	11		11		11		11		11		11	
1/4	400	1/4	983	1/4	1,602	1/4	2,174	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	411	1/2	995	1/2	1,615	1/2	2,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	422	3/4	1,008	3/4	1,628	3/4	2,195	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2 1/2" DIAMETER STANDPIPE.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/213

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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Pearland, Texas 77588
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BARGE "E2MS 302"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	100	0	257	0	412	0		0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	106	1/2	263	1/2	417	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	109	3/4	267	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	112	1	270	1	423	1		1		1		1		1		1	
1/4	4	1/4	115	1/4	273	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	277	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	280	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	284	2	434	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	290	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	294	3/4	442	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	137	3	297	3	445	3		3		3		3		3		3	
1/4	15	1/4	140	1/4	300	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	304	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	307	3/4	452	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	150	4	311	4	455	4		4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	156	1/2	317	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	320	3/4	462	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	324	5	465	5		5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	169	1/2	330	1/2	469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	334	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	337	6	474	6		6		6		6		6		6	
1/4	39	1/4	179	1/4	340	1/4	476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	343	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	347	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	189	7	350	7	482	7		7		7		7		7		7	
1/4	49	1/4	192	1/4	353	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	356	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	199	3/4	360	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	202	8	363	8	489	8		8		8		8		8		8	
1/4	59	1/4	206	1/4	366	1/4	491	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	209	1/2	369	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	372	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	216	9	375	9	496	9		9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	382	1/2	499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	226	3/4	385	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	229	10	388	10	502	10		10		10		10		10		10	
1/4	80	1/4	233	1/4	391	1/4	502	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	236	1/2	394	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	397	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	243	11	400	11	502	11		11		11		11		11		11	
1/4	92	1/4	246	1/4	403	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	250	1/2	406	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	253	3/4	409	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE.

STRAPPED: 08/27/2013 SW
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ALL PRIOR TO 08/2013

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BARGE "E2MS 302"

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	00-1/8	- 00-1/8	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	00-1/8	- 00-1/8	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 = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-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: 235'-09"

August 28, 2013

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

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BARGE "E2MS 302"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0		0	4,714.24	0	4,356.69	0	3,999.14	0	3,640.54	0	3,281.94	0	2,923.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,706.79	1/4	4,349.24	1/4	3,991.67	1/4	3,633.07	1/4	3,274.47	1/4	2,915.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,699.34	1/2	4,341.79	1/2	3,984.20	1/2	3,625.60	1/2	3,267.00	1/2	2,908.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,691.89	3/4	4,334.35	3/4	3,976.73	3/4	3,618.13	3/4	3,259.53	3/4	2,900.92		
1	1	1	1	1	1	1	1	1	5,026.58	1	4,684.44	1	4,326.90	1	3,969.26	1	3,610.66	1	3,252.06	1	2,893.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,021.39	1/4	4,676.99	1/4	4,319.45	1/4	3,961.79	1/4	3,603.19	1/4	3,244.58	1/4	2,885.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,016.19	1/2	4,669.55	1/2	4,312.00	1/2	3,954.32	1/2	3,595.72	1/2	3,237.11	1/2	2,878.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,010.99	3/4	4,662.10	3/4	4,304.55	3/4	3,946.85	3/4	3,588.25	3/4	3,229.64	3/4	2,871.04
2	2	2	2	2	2	2	2	2	5,005.79	2	4,654.65	2	4,297.10	2	3,939.38	2	3,580.77	2	3,222.17	2	2,863.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,999.35	1/4	4,647.20	1/4	4,289.65	1/4	3,931.91	1/4	3,573.30	1/4	3,214.70	1/4	2,856.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,992.91	1/2	4,639.75	1/2	4,282.20	1/2	3,924.44	1/2	3,565.83	1/2	3,207.23	1/2	2,848.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,986.46	3/4	4,632.30	3/4	4,274.75	3/4	3,916.97	3/4	3,558.36	3/4	3,199.76	3/4	2,841.16
3	3	3	3	3	3	3	3	3	4,980.02	3	4,624.85	3	4,267.31	3	3,909.49	3	3,550.89	3	3,192.29	3	2,833.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,972.71	1/4	4,617.40	1/4	4,259.86	1/4	3,902.02	1/4	3,543.42	1/4	3,184.82	1/4	2,826.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,965.41	1/2	4,609.95	1/2	4,252.41	1/2	3,894.55	1/2	3,535.95	1/2	3,177.35	1/2	2,818.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,958.10	3/4	4,602.51	3/4	4,244.96	3/4	3,887.08	3/4	3,528.48	3/4	3,169.88	3/4	2,811.27
4	4	4	4	4	4	4	4	4	4,950.79	4	4,595.06	4	4,237.51	4	3,879.61	4	3,521.01	4	3,162.40	4	2,803.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.43	1/4	4,587.61	1/4	4,230.06	1/4	3,872.14	1/4	3,513.54	1/4	3,154.93	1/4	2,796.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,936.07	1/2	4,580.16	1/2	4,222.61	1/2	3,864.67	1/2	3,506.07	1/2	3,147.46	1/2	2,788.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,928.71	3/4	4,572.71	3/4	4,215.16	3/4	3,857.20	3/4	3,498.59	3/4	3,139.99	3/4	2,781.39
5	5	5	5	5	5	5	5	5	4,921.34	5	4,565.26	5	4,207.71	5	3,849.73	5	3,491.12	5	3,132.52	5	2,773.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,913.97	1/4	4,557.81	1/4	4,200.27	1/4	3,842.26	1/4	3,483.65	1/4	3,125.05	1/4	2,766.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,906.60	1/2	4,550.36	1/2	4,192.82	1/2	3,834.79	1/2	3,476.18	1/2	3,117.58	1/2	2,758.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.22	3/4	4,542.91	3/4	4,185.37	3/4	3,827.31	3/4	3,468.71	3/4	3,110.11	3/4	2,751.50
6	6	6	6	6	6	6	6	6	4,891.85	6	4,535.47	6	4,177.92	6	3,819.84	6	3,461.24	6	3,102.64	6	2,744.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,884.47	1/4	4,528.02	1/4	4,170.47	1/4	3,812.37	1/4	3,453.77	1/4	3,095.17	1/4	2,736.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,877.09	1/2	4,520.57	1/2	4,163.02	1/2	3,804.90	1/2	3,446.30	1/2	3,087.70	1/2	2,729.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,869.72	3/4	4,513.12	3/4	4,155.57	3/4	3,797.43	3/4	3,438.83	3/4	3,080.22	3/4	2,721.62
7	7	7	7	7	7	7	7	7	4,862.34	7	4,505.67	7	4,148.12	7	3,789.96	7	3,431.36	7	3,072.75	7	2,714.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,854.96	1/4	4,498.22	1/4	4,140.67	1/4	3,782.49	1/4	3,423.89	1/4	3,065.28	1/4	2,706.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.59	1/2	4,490.77	1/2	4,133.23	1/2	3,775.02	1/2	3,416.41	1/2	3,057.81	1/2	2,699.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,840.21	3/4	4,483.32	3/4	4,125.78	3/4	3,767.55	3/4	3,408.94	3/4	3,050.34	3/4	2,691.74
8	8	8	8	8	8	8	8	8	4,832.84	8	4,475.87	8	4,118.33	8	3,760.08	8	3,401.47	8	3,042.87	8	2,684.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,825.46	1/4	4,468.43	1/4	4,110.88	1/4	3,752.61	1/4	3,394.00	1/4	3,035.40	1/4	2,676.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,818.09	1/2	4,460.98	1/2	4,103.43	1/2	3,745.13	1/2	3,386.53	1/2	3,027.93	1/2	2,669.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,810.71	3/4	4,453.53	3/4	4,095.98	3/4	3,737.66	3/4	3,379.06	3/4	3,020.46	3/4	2,661.85
9	9	9	9	9	9	9	9	9	4,803.33	9	4,446.08	9	4,088.53	9	3,730.19	9	3,371.59	9	3,012.99	9	2,654.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,795.96	1/4	4,438.63	1/4	4,081.08	1/4	3,722.72	1/4	3,364.12	1/4	3,005.52	1/4	2,646.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,788.58	1/2	4,431.18	1/2	4,073.63	1/2	3,715.25	1/2	3,356.65	1/2	2,998.04	1/2	2,639.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,781.21	3/4	4,423.73	3/4	4,066.19	3/4	3,707.78	3/4	3,349.18	3/4	2,990.57	3/4	2,631.97
10	10	10	10	10	10	10	10	10	4,773.83	10	4,416.28	10	4,058.74	10	3,700.31	10	3,341.71	10	2,983.10	10	2,624.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,766.38	1/4	4,408.83	1/4	4,051.29	1/4	3,692.84	1/4	3,334.23	1/4	2,975.63	1/4	2,617.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,758.93	1/2	4,401.39	1/2	4,043.84	1/2	3,685.37	1/2	3,326.76	1/2	2,968.16	1/2	2,609.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,751.48	3/4	4,393.94	3/4	4,036.39	3/4	3,677.90	3/4	3,319.29	3/4	2,960.69	3/4	2,602.09
11	11	11	11	11	11	11	11	11	4,744.04	11	4,386.49	11	4,028.94	11	3,670.43	11	3,311.82	11	2,953.22	11	2,594.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,736.59	1/4	4,379.04	1/4	4,021.49	1/4	3,662.95	1/4	3,304.35	1/4	2,945.75	1/4	2,587.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,729.14	1/2	4,371.59	1/2	4,014.04	1/2	3,655.48	1/2	3,296.88	1/2	2,938.28	1/2	2,579.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,721.69	3/4	4,364.14	3/4	4,006.59	3/4	3,648.01	3/4	3,289.41	3/4	2,930.81	3/4	2,572.20

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

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	2,564.72	0	2,206.03	0	1,847.33	0	1,488.63	0	1,129.93	0	773.77	0	416.70	0	95.89	0		0	
1/4	2,557.25	1/4	2,198.55	1/4	1,839.85	1/4	1,481.15	1/4	1,122.49	1/4	766.30	1/4	409.54	1/4	89.79	1/4		1/4	
1/2	2,549.78	1/2	2,191.08	1/2	1,832.38	1/2	1,473.68	1/2	1,115.04	1/2	758.83	1/2	402.37	1/2	83.68	1/2		1/2	
3/4	2,542.31	3/4	2,183.61	3/4	1,824.91	3/4	1,466.21	3/4	1,107.60	3/4	751.35	3/4	395.20	3/4	77.58	3/4		3/4	
1	2,534.83	1	2,176.13	1	1,817.43	1	1,458.74	1	1,100.16	1	743.88	1	388.04	1	71.48	1		1	
1/4	2,527.36	1/4	2,168.66	1/4	1,809.96	1/4	1,451.26	1/4	1,092.72	1/4	736.41	1/4	380.96	1/4	65.49	1/4		1/4	
1/2	2,519.89	1/2	2,161.19	1/2	1,802.49	1/2	1,443.79	1/2	1,085.28	1/2	728.93	1/2	373.88	1/2	59.50	1/2		1/2	
3/4	2,512.41	3/4	2,153.71	3/4	1,795.02	3/4	1,436.32	3/4	1,077.84	3/4	721.46	3/4	366.80	3/4	53.51	3/4		3/4	
2	2,504.94	2	2,146.24	2	1,787.54	2	1,428.84	2	1,070.40	2	713.99	2	359.72	2	47.52	2		2	
1/4	2,497.47	1/4	2,138.77	1/4	1,780.07	1/4	1,421.37	1/4	1,062.97	1/4	706.52	1/4	352.73	1/4	42.51	1/4		1/4	
1/2	2,490.00	1/2	2,131.30	1/2	1,772.60	1/2	1,413.90	1/2	1,055.55	1/2	699.04	1/2	345.74	1/2	37.51	1/2		1/2	
3/4	2,482.52	3/4	2,123.82	3/4	1,765.12	3/4	1,406.42	3/4	1,048.13	3/4	691.57	3/4	338.75	3/4	32.51	3/4		3/4	
3	2,475.05	3	2,116.35	3	1,757.65	3	1,398.95	3	1,040.71	3	684.10	3	331.76	3	27.50	3		3	
1/4	2,467.58	1/4	2,108.88	1/4	1,750.18	1/4	1,391.48	1/4	1,033.29	1/4	676.63	1/4	324.86	1/4	24.46	1/4		1/4	
1/2	2,460.10	1/2	2,101.40	1/2	1,742.71	1/2	1,384.01	1/2	1,025.88	1/2	669.15	1/2	317.96	1/2	21.41	1/2		1/2	
3/4	2,452.63	3/4	2,093.93	3/4	1,735.23	3/4	1,376.53	3/4	1,018.46	3/4	661.68	3/4	311.05	3/4	18.36	3/4		3/4	
4	2,445.16	4	2,086.46	4	1,727.76	4	1,369.06	4	1,011.05	4	654.21	4	304.15	4	15.31	4		4	
1/4	2,437.68	1/4	2,078.99	1/4	1,720.29	1/4	1,361.59	1/4	1,003.64	1/4	646.74	1/4	297.34	1/4		1/4		1/4	
1/2	2,430.21	1/2	2,071.51	1/2	1,712.81	1/2	1,354.11	1/2	996.22	1/2	639.26	1/2	290.52	1/2		1/2		1/2	
3/4	2,422.74	3/4	2,064.04	3/4	1,705.34	3/4	1,346.64	3/4	988.81	3/4	631.79	3/4	283.70	3/4		3/4		3/4	
5	2,415.27	5	2,056.57	5	1,697.87	5	1,339.17	5	981.39	5	624.32	5	276.89	5		5		5	
1/4	2,407.79	1/4	2,049.09	1/4	1,690.39	1/4	1,331.70	1/4	973.98	1/4	616.84	1/4	270.16	1/4		1/4		1/4	
1/2	2,400.32	1/2	2,041.62	1/2	1,682.92	1/2	1,324.22	1/2	966.57	1/2	609.37	1/2	263.43	1/2		1/2		1/2	
3/4	2,392.85	3/4	2,034.15	3/4	1,675.45	3/4	1,316.75	3/4	959.15	3/4	601.90	3/4	256.71	3/4		3/4		3/4	
6	2,385.37	6	2,026.68	6	1,667.98	6	1,309.28	6	951.74	6	594.43	6	249.98	6		6		6	
1/4	2,377.90	1/4	2,019.20	1/4	1,660.50	1/4	1,301.80	1/4	944.33	1/4	586.96	1/4	243.34	1/4		1/4		1/4	
1/2	2,370.43	1/2	2,011.73	1/2	1,653.03	1/2	1,294.33	1/2	936.91	1/2	579.49	1/2	236.70	1/2		1/2		1/2	
3/4	2,362.96	3/4	2,004.26	3/4	1,645.56	3/4	1,286.86	3/4	929.50	3/4	572.02	3/4	230.06	3/4		3/4		3/4	
7	2,355.48	7	1,996.78	7	1,638.08	7	1,279.39	7	922.08	7	564.56	7	223.42	7		7		7	
1/4	2,348.01	1/4	1,989.31	1/4	1,630.61	1/4	1,271.91	1/4	914.67	1/4	557.09	1/4	216.87	1/4		1/4		1/4	
1/2	2,340.54	1/2	1,981.84	1/2	1,623.14	1/2	1,264.44	1/2	907.26	1/2	549.62	1/2	210.32	1/2		1/2		1/2	
3/4	2,333.06	3/4	1,974.37	3/4	1,615.67	3/4	1,256.97	3/4	899.84	3/4	542.16	3/4	203.76	3/4		3/4		3/4	
8	2,325.59	8	1,966.89	8	1,608.19	8	1,249.49	8	892.43	8	534.69	8	197.21	8		8		8	
1/4	2,318.12	1/4	1,959.42	1/4	1,600.72	1/4	1,242.02	1/4	885.01	1/4	527.22	1/4	190.75	1/4		1/4		1/4	
1/2	2,310.65	1/2	1,951.95	1/2	1,593.25	1/2	1,234.55	1/2	877.60	1/2	519.74	1/2	184.28	1/2		1/2		1/2	
3/4	2,303.17	3/4	1,944.47	3/4	1,585.77	3/4	1,227.08	3/4	870.19	3/4	512.27	3/4	177.82	3/4		3/4		3/4	
9	2,295.70	9	1,937.00	9	1,578.30	9	1,219.60	9	862.77	9	504.80	9	171.35	9		9		9	
1/4	2,288.23	1/4	1,929.53	1/4	1,570.83	1/4	1,212.13	1/4	855.36	1/4	497.37	1/4	164.98	1/4		1/4		1/4	
1/2	2,280.75	1/2	1,922.05	1/2	1,563.36	1/2	1,204.66	1/2	847.94	1/2	489.94	1/2	158.60	1/2		1/2		1/2	
3/4	2,273.28	3/4	1,914.58	3/4	1,555.88	3/4	1,197.18	3/4	840.53	3/4	482.51	3/4	152.22	3/4		3/4		3/4	
10	2,265.81	10	1,907.11	10	1,548.41	10	1,189.71	10	833.12	10	475.08	10	145.85	10		10		10	
1/4	2,258.34	1/4	1,899.64	1/4	1,540.94	1/4	1,182.24	1/4	825.70	1/4	467.74	1/4	139.56	1/4		1/4		1/4	
1/2	2,250.86	1/2	1,892.16	1/2	1,533.46	1/2	1,174.76	1/2	818.29	1/2	460.40	1/2	133.27	1/2		1/2		1/2	
3/4	2,243.39	3/4	1,884.69	3/4	1,525.99	3/4	1,167.29	3/4	810.87	3/4	453.06	3/4	126.98	3/4		3/4		3/4	
11	2,235.92	11	1,877.22	11	1,518.52	11	1,159.82	11	803.46	11	445.72	11	120.69	11		11		11	
1/4	2,228.44	1/4	1,869.74	1/4	1,511.05	1/4	1,152.35	1/4	796.04	1/4	438.46	1/4	114.49	1/4		1/4		1/4	
1/2	2,220.97	1/2	1,862.27	1/2	1,503.57	1/2	1,144.87	1/2	788.62	1/2	431.21	1/2	108.29	1/2		1/2		1/2	
3/4	2,213.50	3/4	1,854.80	3/4	1,496.10	3/4	1,137.40	3/4	781.19	3/4	423.95	3/4	102.09	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED: 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
0		0		0		0		0	4,705.38	0	4,348.09	0	3,990.78	0	3,632.45	0	3,274.11	0	2,915.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,697.94	1/4	4,340.65	1/4	3,983.32	1/4	3,624.98	1/4	3,266.65	1/4	2,908.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,690.49	1/2	4,333.21	1/2	3,975.85	1/2	3,617.52	1/2	3,259.18	1/2	2,900.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,024.93	3/4	4,683.05	3/4	4,325.76	3/4	3,968.39	3/4	3,610.05	3/4	3,251.72	3/4	2,893.38
1	1	1	1	1	1	1	1	1	5,019.74	1	4,675.61	1	4,318.32	1	3,960.92	1	3,602.59	1	3,244.25	1	2,885.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,014.54	1/4	4,668.16	1/4	4,310.87	1/4	3,953.46	1/4	3,595.12	1/4	3,236.79	1/4	2,878.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,009.35	1/2	4,660.72	1/2	4,303.43	1/2	3,945.99	1/2	3,587.66	1/2	3,229.32	1/2	2,870.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,004.16	3/4	4,653.28	3/4	4,295.99	3/4	3,938.53	3/4	3,580.19	3/4	3,221.86	3/4	2,863.52
2	2	2	2	2	2	2	2	2	4,997.72	2	4,645.83	2	4,288.54	2	3,931.06	2	3,572.73	2	3,214.39	2	2,856.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,991.28	1/4	4,638.39	1/4	4,281.10	1/4	3,923.59	1/4	3,565.26	1/4	3,206.93	1/4	2,848.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,984.84	1/2	4,630.95	1/2	4,273.66	1/2	3,916.13	1/2	3,557.80	1/2	3,199.46	1/2	2,841.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,978.40	3/4	4,623.50	3/4	4,266.21	3/4	3,908.66	3/4	3,550.33	3/4	3,192.00	3/4	2,833.66
3	3	3	3	3	3	3	3	3	4,971.10	3	4,616.06	3	4,258.77	3	3,901.20	3	3,542.86	3	3,184.53	3	2,826.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.80	1/4	4,608.62	1/4	4,251.33	1/4	3,893.73	1/4	3,535.40	1/4	3,177.07	1/4	2,818.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,956.50	1/2	4,601.17	1/2	4,243.88	1/2	3,886.27	1/2	3,527.93	1/2	3,169.60	1/2	2,811.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,949.20	3/4	4,593.73	3/4	4,236.44	3/4	3,878.80	3/4	3,520.47	3/4	3,162.13	3/4	2,803.80
4	4	4	4	4	4	4	4	4	4,941.84	4	4,586.28	4	4,229.00	4	3,871.34	4	3,513.00	4	3,154.67	4	2,796.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,934.48	1/4	4,578.84	1/4	4,221.55	1/4	3,863.87	1/4	3,505.54	1/4	3,147.20	1/4	2,788.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,927.13	1/2	4,571.40	1/2	4,214.11	1/2	3,856.41	1/2	3,498.07	1/2	3,139.74	1/2	2,781.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,919.77	3/4	4,563.95	3/4	4,206.67	3/4	3,848.94	3/4	3,490.61	3/4	3,132.27	3/4	2,773.94
5	5	5	5	5	5	5	5	5	4,912.40	5	4,556.51	5	4,199.22	5	3,841.48	5	3,483.14	5	3,124.81	5	2,766.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,905.03	1/4	4,549.07	1/4	4,191.78	1/4	3,834.01	1/4	3,475.68	1/4	3,117.34	1/4	2,759.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,897.67	1/2	4,541.62	1/2	4,184.34	1/2	3,826.55	1/2	3,468.21	1/2	3,109.88	1/2	2,751.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,890.30	3/4	4,534.18	3/4	4,176.89	3/4	3,819.08	3/4	3,460.75	3/4	3,102.41	3/4	2,744.08
6	6	6	6	6	6	6	6	6	4,882.93	6	4,526.74	6	4,169.45	6	3,811.62	6	3,453.28	6	3,094.95	6	2,736.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,875.55	1/4	4,519.29	1/4	4,162.00	1/4	3,804.15	1/4	3,445.82	1/4	3,087.48	1/4	2,729.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,868.18	1/2	4,511.85	1/2	4,154.56	1/2	3,796.68	1/2	3,438.35	1/2	3,080.02	1/2	2,721.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,860.81	3/4	4,504.41	3/4	4,147.12	3/4	3,789.22	3/4	3,430.89	3/4	3,072.55	3/4	2,714.22
7	7	7	7	7	7	7	7	7	4,853.44	7	4,496.96	7	4,139.67	7	3,781.75	7	3,423.42	7	3,065.09	7	2,706.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,846.07	1/4	4,489.52	1/4	4,132.23	1/4	3,774.29	1/4	3,415.95	1/4	3,057.62	1/4	2,699.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,838.70	1/2	4,482.08	1/2	4,124.79	1/2	3,766.82	1/2	3,408.49	1/2	3,050.15	1/2	2,691.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,831.33	3/4	4,474.63	3/4	4,117.34	3/4	3,759.36	3/4	3,401.02	3/4	3,042.69	3/4	2,684.36
8	8	8	8	8	8	8	8	8	4,823.96	8	4,467.19	8	4,109.90	8	3,751.89	8	3,393.56	8	3,035.22	8	2,676.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.59	1/4	4,459.75	1/4	4,102.46	1/4	3,744.43	1/4	3,386.09	1/4	3,027.76	1/4	2,669.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,809.22	1/2	4,452.30	1/2	4,095.01	1/2	3,736.96	1/2	3,378.63	1/2	3,020.29	1/2	2,661.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,801.85	3/4	4,444.86	3/4	4,087.57	3/4	3,729.50	3/4	3,371.16	3/4	3,012.83	3/4	2,654.49
9	9	9	9	9	9	9	9	9	4,794.48	9	4,437.41	9	4,080.13	9	3,722.03	9	3,363.70	9	3,005.36	9	2,647.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,787.11	1/4	4,429.97	1/4	4,072.68	1/4	3,714.57	1/4	3,356.23	1/4	2,997.90	1/4	2,639.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,779.74	1/2	4,422.53	1/2	4,065.24	1/2	3,707.10	1/2	3,348.77	1/2	2,990.43	1/2	2,632.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,772.37	3/4	4,415.08	3/4	4,057.80	3/4	3,699.64	3/4	3,341.30	3/4	2,982.97	3/4	2,624.63
10	10	10	10	10	10	10	10	10	4,764.93	10	4,407.64	10	4,050.35	10	3,692.17	10	3,333.84	10	2,975.50	10	2,617.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,757.49	1/4	4,400.20	1/4	4,042.91	1/4	3,684.71	1/4	3,326.37	1/4	2,968.04	1/4	2,609.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,750.04	1/2	4,392.75	1/2	4,035.47	1/2	3,677.24	1/2	3,318.91	1/2	2,960.57	1/2	2,602.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,742.60	3/4	4,385.31	3/4	4,028.02	3/4	3,669.77	3/4	3,311.44	3/4	2,953.11	3/4	2,594.77
11	11	11	11	11	11	11	11	11	4,735.15	11	4,377.87	11	4,020.58	11	3,662.31	11	3,303.98	11	2,945.64	11	2,587.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,727.71	1/4	4,370.42	1/4	4,013.13	1/4	3,654.84	1/4	3,296.51	1/4	2,938.18	1/4	2,579.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,720.27	1/2	4,362.98	1/2	4,005.69	1/2	3,647.38	1/2	3,289.04	1/2	2,930.71	1/2	2,572.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,712.82	3/4	4,355.54	3/4	3,998.25	3/4	3,639.91	3/4	3,281.58	3/4	2,923.24	3/4	2,564.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	2,557.43	0	2,199.00	0	1,840.56	0	1,482.13	0	1,123.69	0	765.76	0	409.21	0	89.71	0		0	
1/4	2,549.97	1/4	2,191.53	1/4	1,833.10	1/4	1,474.66	1/4	1,116.23	1/4	758.29	1/4	402.05	1/4	83.61	1/4		1/4	
1/2	2,542.50	1/2	2,184.06	1/2	1,825.63	1/2	1,467.19	1/2	1,108.76	1/2	750.82	1/2	394.89	1/2	77.51	1/2		1/2	
3/4	2,535.03	3/4	2,176.60	3/4	1,818.16	3/4	1,459.73	3/4	1,101.29	3/4	743.36	3/4	387.73	3/4	71.41	3/4		3/4	
1	2,527.57	1	2,169.13	1	1,810.69	1	1,452.26	1	1,093.83	1	735.89	1	380.65	1	65.43	1		1	
1/4	2,520.10	1/4	2,161.66	1/4	1,803.23	1/4	1,444.79	1/4	1,086.37	1/4	728.42	1/4	373.58	1/4	59.45	1/4		1/4	
1/2	2,512.63	1/2	2,154.20	1/2	1,795.76	1/2	1,437.32	1/2	1,078.91	1/2	720.95	1/2	366.51	1/2	53.46	1/2		1/2	
3/4	2,505.16	3/4	2,146.73	3/4	1,788.29	3/4	1,429.86	3/4	1,071.44	3/4	713.49	3/4	359.43	3/4	47.48	3/4		3/4	
2	2,497.70	2	2,139.26	2	1,780.83	2	1,422.39	2	1,063.98	2	706.02	2	352.45	2	42.48	2		2	
1/4	2,490.23	1/4	2,131.79	1/4	1,773.36	1/4	1,414.92	1/4	1,056.52	1/4	698.55	1/4	345.46	1/4	37.48	1/4		1/4	
1/2	2,482.76	1/2	2,124.33	1/2	1,765.89	1/2	1,407.46	1/2	1,049.06	1/2	691.08	1/2	338.48	1/2	32.48	1/2		1/2	
3/4	2,475.29	3/4	2,116.86	3/4	1,758.42	3/4	1,399.99	3/4	1,041.60	3/4	683.62	3/4	331.49	3/4	27.48	3/4		3/4	
3	2,467.83	3	2,109.39	3	1,750.96	3	1,392.52	3	1,034.14	3	676.15	3	324.60	3	24.44	3		3	
1/4	2,460.36	1/4	2,101.92	1/4	1,743.49	1/4	1,385.05	1/4	1,026.69	1/4	668.68	1/4	317.70	1/4	21.39	1/4		1/4	
1/2	2,452.89	1/2	2,094.46	1/2	1,736.02	1/2	1,377.59	1/2	1,019.24	1/2	661.21	1/2	310.80	1/2	18.35	1/2		1/2	
3/4	2,445.42	3/4	2,086.99	3/4	1,728.55	3/4	1,370.12	3/4	1,011.78	3/4	653.75	3/4	303.90	3/4	15.30	3/4		3/4	
4	2,437.96	4	2,079.52	4	1,721.09	4	1,362.65	4	1,004.33	4	646.28	4	297.09	4		4		4	
1/4	2,430.49	1/4	2,072.05	1/4	1,713.62	1/4	1,355.18	1/4	996.88	1/4	638.81	1/4	290.28	1/4		1/4		1/4	
1/2	2,423.02	1/2	2,064.59	1/2	1,706.15	1/2	1,347.72	1/2	989.42	1/2	631.34	1/2	283.47	1/2		1/2		1/2	
3/4	2,415.55	3/4	2,057.12	3/4	1,698.68	3/4	1,340.25	3/4	981.97	3/4	623.88	3/4	276.66	3/4		3/4		3/4	
5	2,408.09	5	2,049.65	5	1,691.22	5	1,332.78	5	974.52	5	616.41	5	269.94	5		5		5	
1/4	2,400.62	1/4	2,042.18	1/4	1,683.75	1/4	1,325.31	1/4	967.07	1/4	608.94	1/4	263.22	1/4		1/4		1/4	
1/2	2,393.15	1/2	2,034.72	1/2	1,676.28	1/2	1,317.85	1/2	959.61	1/2	601.48	1/2	256.50	1/2		1/2		1/2	
3/4	2,385.68	3/4	2,027.25	3/4	1,668.81	3/4	1,310.38	3/4	952.16	3/4	594.01	3/4	249.77	3/4		3/4		3/4	
6	2,378.22	6	2,019.78	6	1,661.35	6	1,302.91	6	944.71	6	586.54	6	243.14	6		6		6	
1/4	2,370.75	1/4	2,012.31	1/4	1,653.88	1/4	1,295.44	1/4	937.25	1/4	579.07	1/4	236.50	1/4		1/4		1/4	
1/2	2,363.28	1/2	2,004.85	1/2	1,646.41	1/2	1,287.98	1/2	929.80	1/2	571.61	1/2	229.87	1/2		1/2		1/2	
3/4	2,355.81	3/4	1,997.38	3/4	1,638.94	3/4	1,280.51	3/4	922.35	3/4	564.14	3/4	223.24	3/4		3/4		3/4	
7	2,348.35	7	1,989.91	7	1,631.48	7	1,273.04	7	914.89	7	556.67	7	216.69	7		7		7	
1/4	2,340.88	1/4	1,982.44	1/4	1,624.01	1/4	1,265.57	1/4	907.44	1/4	549.20	1/4	210.14	1/4		1/4		1/4	
1/2	2,333.41	1/2	1,974.98	1/2	1,616.54	1/2	1,258.11	1/2	899.99	1/2	541.74	1/2	203.59	1/2		1/2		1/2	
3/4	2,325.95	3/4	1,967.51	3/4	1,609.07	3/4	1,250.64	3/4	892.53	3/4	534.27	3/4	197.05	3/4		3/4		3/4	
8	2,318.48	8	1,960.04	8	1,601.61	8	1,243.17	8	885.08	8	526.80	8	190.59	8		8		8	
1/4	2,311.01	1/4	1,952.58	1/4	1,594.14	1/4	1,235.70	1/4	877.63	1/4	519.33	1/4	184.13	1/4		1/4		1/4	
1/2	2,303.54	1/2	1,945.11	1/2	1,586.67	1/2	1,228.24	1/2	870.17	1/2	511.87	1/2	177.67	1/2		1/2		1/2	
3/4	2,296.08	3/4	1,937.64	3/4	1,579.21	3/4	1,220.77	3/4	862.72	3/4	504.40	3/4	171.21	3/4		3/4		3/4	
9	2,288.61	9	1,930.17	9	1,571.74	9	1,213.30	9	855.27	9	496.98	9	164.84	9		9		9	
1/4	2,281.14	1/4	1,922.71	1/4	1,564.27	1/4	1,205.84	1/4	847.81	1/4	489.55	1/4	158.47	1/4		1/4		1/4	
1/2	2,273.67	1/2	1,915.24	1/2	1,556.80	1/2	1,198.37	1/2	840.36	1/2	482.13	1/2	152.09	1/2		1/2		1/2	
3/4	2,266.21	3/4	1,907.77	3/4	1,549.34	3/4	1,190.90	3/4	832.91	3/4	474.70	3/4	145.72	3/4		3/4		3/4	
10	2,258.74	10	1,900.30	10	1,541.87	10	1,183.43	10	825.45	10	467.37	10	139.44	10		10		10	
1/4	2,251.27	1/4	1,892.84	1/4	1,534.40	1/4	1,175.97	1/4	818.00	1/4	460.03	1/4	133.16	1/4		1/4		1/4	
1/2	2,243.80	1/2	1,885.37	1/2	1,526.93	1/2	1,168.50	1/2	810.55	1/2	452.70	1/2	126.87	1/2		1/2		1/2	
3/4	2,236.34	3/4	1,877.90	3/4	1,519.47	3/4	1,161.03	3/4	803.09	3/4	445.36	3/4	120.59	3/4		3/4		3/4	
11	2,228.87	11	1,870.43	11	1,512.00	11	1,153.56	11	795.63	11	438.11	11	114.39	11		11		11	
1/4	2,221.40	1/4	1,862.97	1/4	1,504.53	1/4	1,146.10	1/4	788.16	1/4	430.86	1/4	108.20	1/4		1/4		1/4	
1/2	2,213.93	1/2	1,855.50	1/2	1,497.06	1/2	1,138.63	1/2	780.69	1/2	423.62	1/2	102.00	1/2		1/2		1/2	
3/4	2,206.47	3/4	1,848.03	3/4	1,489.60	3/4	1,131.16	3/4	773.23	3/4	416.37	3/4	95.81	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED: 08/28/2013 CL
PRINTED: 08/28/2013 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "E2MS 302"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0	4,756.54	0	4,397.94	0	4,039.27	0	3,679.62	0	3,319.96	0	2,960.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.45	1/4	4,749.07	1/4	4,390.47	1/4	4,031.78	1/4	3,672.12	1/4	3,312.47	1/4	2,952.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.23	1/2	4,741.60	1/2	4,383.00	1/2	4,024.29	1/2	3,664.63	1/2	3,304.98	1/2	2,945.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,082.01	3/4	4,734.13	3/4	4,375.53	3/4	4,016.79	3/4	3,657.14	3/4	3,297.48	3/4	2,937.83
1	1	1	1	1	1	1	1	1	5,076.79	1	4,726.66	1	4,368.06	1	4,009.30	1	3,649.65	1	3,289.99	1	2,930.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,071.57	1/4	4,719.19	1/4	4,360.59	1/4	4,001.81	1/4	3,642.15	1/4	3,282.50	1/4	2,922.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,065.10	1/2	4,711.72	1/2	4,353.12	1/2	3,994.32	1/2	3,634.66	1/2	3,275.01	1/2	2,915.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,058.64	3/4	4,704.25	3/4	4,345.64	3/4	3,986.82	3/4	3,627.17	3/4	3,267.51	3/4	2,907.86
2	2	2	2	2	2	2	2	2	5,052.17	2	4,696.78	2	4,338.17	2	3,979.33	2	3,619.68	2	3,260.02	2	2,900.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,045.70	1/4	4,689.31	1/4	4,330.70	1/4	3,971.84	1/4	3,612.18	1/4	3,252.53	1/4	2,892.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,038.37	1/2	4,681.83	1/2	4,323.23	1/2	3,964.34	1/2	3,604.69	1/2	3,245.04	1/2	2,885.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,031.03	3/4	4,674.36	3/4	4,315.76	3/4	3,956.85	3/4	3,597.20	3/4	3,237.54	3/4	2,877.89
3	3	3	3	3	3	3	3	3	5,023.70	3	4,666.89	3	4,308.29	3	3,949.36	3	3,589.70	3	3,230.05	3	2,870.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,016.37	1/4	4,659.42	1/4	4,300.82	1/4	3,941.87	1/4	3,582.21	1/4	3,222.56	1/4	2,862.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,008.97	1/2	4,651.95	1/2	4,293.35	1/2	3,934.37	1/2	3,574.72	1/2	3,215.06	1/2	2,855.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,001.58	3/4	4,644.48	3/4	4,285.88	3/4	3,926.88	3/4	3,567.23	3/4	3,207.57	3/4	2,847.92
4	4	4	4	4	4	4	4	4	4,994.19	4	4,637.01	4	4,278.41	4	3,919.39	4	3,559.73	4	3,200.08	4	2,840.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,986.80	1/4	4,629.54	1/4	4,270.94	1/4	3,911.89	1/4	3,552.24	1/4	3,192.59	1/4	2,832.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,979.40	1/2	4,622.07	1/2	4,263.46	1/2	3,904.40	1/2	3,544.75	1/2	3,185.09	1/2	2,825.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,972.00	3/4	4,614.60	3/4	4,255.99	3/4	3,896.91	3/4	3,537.25	3/4	3,177.60	3/4	2,817.95
5	5	5	5	5	5	5	5	5	4,964.60	5	4,607.13	5	4,248.52	5	3,889.42	5	3,529.76	5	3,170.11	5	2,810.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,957.20	1/4	4,599.66	1/4	4,241.05	1/4	3,881.92	1/4	3,522.27	1/4	3,162.61	1/4	2,802.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,949.80	1/2	4,592.18	1/2	4,233.58	1/2	3,874.43	1/2	3,514.78	1/2	3,155.12	1/2	2,795.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,942.39	3/4	4,584.71	3/4	4,226.11	3/4	3,866.94	3/4	3,507.28	3/4	3,147.63	3/4	2,787.97
6	6	6	6	6	6	6	6	6	4,934.99	6	4,577.24	6	4,218.64	6	3,859.44	6	3,499.79	6	3,140.14	6	2,780.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,927.58	1/4	4,569.77	1/4	4,211.17	1/4	3,851.95	1/4	3,492.30	1/4	3,132.64	1/4	2,772.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,920.18	1/2	4,562.30	1/2	4,203.70	1/2	3,844.46	1/2	3,484.80	1/2	3,125.15	1/2	2,765.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,912.77	3/4	4,554.83	3/4	4,196.23	3/4	3,836.97	3/4	3,477.31	3/4	3,117.66	3/4	2,758.00
7	7	7	7	7	7	7	7	7	4,905.37	7	4,547.36	7	4,188.76	7	3,829.47	7	3,469.82	7	3,110.16	7	2,750.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,897.96	1/4	4,539.89	1/4	4,181.28	1/4	3,821.98	1/4	3,462.33	1/4	3,102.67	1/4	2,743.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.56	1/2	4,532.42	1/2	4,173.81	1/2	3,814.49	1/2	3,454.83	1/2	3,095.18	1/2	2,735.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.15	3/4	4,524.95	3/4	4,166.34	3/4	3,807.00	3/4	3,447.34	3/4	3,087.69	3/4	2,728.03
8	8	8	8	8	8	8	8	8	4,875.75	8	4,517.48	8	4,158.87	8	3,799.50	8	3,439.85	8	3,080.19	8	2,720.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,868.34	1/4	4,510.00	1/4	4,151.40	1/4	3,792.01	1/4	3,432.36	1/4	3,072.70	1/4	2,713.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,860.94	1/2	4,502.53	1/2	4,143.93	1/2	3,784.52	1/2	3,424.86	1/2	3,065.21	1/2	2,705.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,853.53	3/4	4,495.06	3/4	4,136.46	3/4	3,777.02	3/4	3,417.37	3/4	3,057.72	3/4	2,698.06
9	9	9	9	9	9	9	9	9	4,846.13	9	4,487.59	9	4,128.99	9	3,769.53	9	3,409.88	9	3,050.22	9	2,690.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,838.72	1/4	4,480.12	1/4	4,121.52	1/4	3,762.04	1/4	3,402.38	1/4	3,042.73	1/4	2,683.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,831.25	1/2	4,472.65	1/2	4,114.05	1/2	3,754.55	1/2	3,394.89	1/2	3,035.24	1/2	2,675.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,823.78	3/4	4,465.18	3/4	4,106.58	3/4	3,747.05	3/4	3,387.40	3/4	3,027.74	3/4	2,668.09
10	10	10	10	10	10	10	10	10	4,816.31	10	4,457.71	10	4,099.10	10	3,739.56	10	3,379.91	10	3,020.25	10	2,660.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.84	1/4	4,450.24	1/4	4,091.63	1/4	3,732.07	1/4	3,372.41	1/4	3,012.76	1/4	2,653.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,801.37	1/2	4,442.77	1/2	4,084.16	1/2	3,724.57	1/2	3,364.92	1/2	3,005.27	1/2	2,645.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.90	3/4	4,435.30	3/4	4,076.69	3/4	3,717.08	3/4	3,357.43	3/4	2,997.77	3/4	2,638.12
11	11	11	11	11	11	11	11	11	4,786.43	11	4,427.82	11	4,069.22	11	3,709.59	11	3,349.93	11	2,990.28	11	2,630.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.96	1/4	4,420.35	1/4	4,061.75	1/4	3,702.10	1/4	3,342.44	1/4	2,982.79	1/4	2,623.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,771.49	1/2	4,412.88	1/2	4,054.26	1/2	3,694.60	1/2	3,334.95	1/2	2,975.29	1/2	2,615.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,764.01	3/4	4,405.41	3/4	4,046.76	3/4	3,687.11	3/4	3,327.46	3/4	2,967.80	3/4	2,608.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,600.65	0	2,241.00	0	1,881.35	0	1,521.69	0	1,162.89	0	816.88	0	457.23	0	97.61	0		0	
1/4	2,593.16	1/4	2,233.51	1/4	1,873.85	1/4	1,514.20	1/4	1,155.68	1/4	809.39	1/4	449.73	1/4	90.13	1/4		1/4	
1/2	2,585.67	1/2	2,226.01	1/2	1,866.36	1/2	1,506.71	1/2	1,148.48	1/2	801.90	1/2	442.24	1/2	82.67	1/2		1/2	
3/4	2,578.18	3/4	2,218.52	3/4	1,858.87	3/4	1,499.21	3/4	1,141.29	3/4	794.40	3/4	434.75	3/4	75.21	3/4		3/4	
1	2,570.68	1	2,211.03	1	1,851.37	1	1,491.72	1	1,134.09	1	786.91	1	427.26	1	67.76	1		1	
1/4	2,563.19	1/4	2,203.54	1/4	1,843.88	1/4	1,484.23	1/4	1,126.90	1/4	779.42	1/4	419.76	1/4	60.30	1/4		1/4	
1/2	2,555.70	1/2	2,196.04	1/2	1,836.39	1/2	1,476.73	1/2	1,119.71	1/2	771.92	1/2	412.27	1/2	53.75	1/2		1/2	
3/4	2,548.20	3/4	2,188.55	3/4	1,828.90	3/4	1,469.24	3/4	1,112.51	3/4	764.43	3/4	404.78	3/4	47.19	3/4		3/4	
2	2,540.71	2	2,181.06	2	1,821.40	2	1,461.75	2	1,105.32	2	756.94	2	397.28	2	40.64	2		2	
1/4	2,533.22	1/4	2,173.56	1/4	1,813.91	1/4	1,454.26	1/4	1,098.13	1/4	749.45	1/4	389.79	1/4	34.08	1/4		1/4	
1/2	2,525.73	1/2	2,166.07	1/2	1,806.42	1/2	1,446.76	1/2	1,090.94	1/2	741.95	1/2	382.30	1/2	29.40	1/2		1/2	
3/4	2,518.23	3/4	2,158.58	3/4	1,798.92	3/4	1,439.27	3/4	1,083.75	3/4	734.46	3/4	374.81	3/4	24.72	3/4		3/4	
3	2,510.74	3	2,151.09	3	1,791.43	3	1,431.78	3	1,076.57	3	726.97	3	367.31	3	20.03	3		3	
1/4	2,503.25	1/4	2,143.59	1/4	1,783.94	1/4	1,424.28	1/4	1,069.38	1/4	719.47	1/4	359.82	1/4	15.35	1/4		1/4	
1/2	2,495.76	1/2	2,136.10	1/2	1,776.45	1/2	1,416.79	1/2	1,062.20	1/2	711.98	1/2	352.33	1/2		1/2		1/2	
3/4	2,488.26	3/4	2,128.61	3/4	1,768.95	3/4	1,409.30	3/4	1,055.01	3/4	704.49	3/4	344.83	3/4		3/4		3/4	
4	2,480.77	4	2,121.12	4	1,761.46	4	1,401.81	4	1,047.83	4	697.00	4	337.34	4		4		4	
1/4	2,473.28	1/4	2,113.62	1/4	1,753.97	1/4	1,394.31	1/4	1,040.64	1/4	689.50	1/4	329.85	1/4		1/4		1/4	
1/2	2,465.78	1/2	2,106.13	1/2	1,746.48	1/2	1,386.82	1/2	1,033.46	1/2	682.01	1/2	322.36	1/2		1/2		1/2	
3/4	2,458.29	3/4	2,098.64	3/4	1,738.98	3/4	1,379.33	3/4	1,026.27	3/4	674.52	3/4	314.86	3/4		3/4		3/4	
5	2,450.80	5	2,091.14	5	1,731.49	5	1,371.84	5	1,019.09	5	667.02	5	307.37	5		5		5	
1/4	2,443.31	1/4	2,083.65	1/4	1,724.00	1/4	1,364.34	1/4	1,011.90	1/4	659.53	1/4	299.88	1/4		1/4		1/4	
1/2	2,435.81	1/2	2,076.16	1/2	1,716.50	1/2	1,356.85	1/2	1,004.72	1/2	652.04	1/2	292.38	1/2		1/2		1/2	
3/4	2,428.32	3/4	2,068.67	3/4	1,709.01	3/4	1,349.36	3/4	997.53	3/4	644.55	3/4	284.89	3/4		3/4		3/4	
6	2,420.83	6	2,061.17	6	1,701.52	6	1,341.86	6	990.35	6	637.05	6	277.40	6		6		6	
1/4	2,413.33	1/4	2,053.68	1/4	1,694.03	1/4	1,334.37	1/4	983.16	1/4	629.56	1/4	269.91	1/4		1/4		1/4	
1/2	2,405.84	1/2	2,046.19	1/2	1,686.53	1/2	1,326.88	1/2	975.98	1/2	622.07	1/2	262.41	1/2		1/2		1/2	
3/4	2,398.35	3/4	2,038.69	3/4	1,679.04	3/4	1,319.39	3/4	968.79	3/4	614.58	3/4	254.92	3/4		3/4		3/4	
7	2,390.86	7	2,031.20	7	1,671.55	7	1,311.89	7	961.60	7	607.08	7	247.43	7		7		7	
1/4	2,383.36	1/4	2,023.71	1/4	1,664.05	1/4	1,304.40	1/4	954.42	1/4	599.59	1/4	239.94	1/4		1/4		1/4	
1/2	2,375.87	1/2	2,016.22	1/2	1,656.56	1/2	1,296.91	1/2	947.23	1/2	592.10	1/2	232.44	1/2		1/2		1/2	
3/4	2,368.38	3/4	2,008.72	3/4	1,649.07	3/4	1,289.41	3/4	940.05	3/4	584.60	3/4	224.95	3/4		3/4		3/4	
8	2,360.88	8	2,001.23	8	1,641.58	8	1,281.92	8	932.86	8	577.11	8	217.46	8		8		8	
1/4	2,353.39	1/4	1,993.74	1/4	1,634.08	1/4	1,274.43	1/4	925.68	1/4	569.62	1/4	209.96	1/4		1/4		1/4	
1/2	2,345.90	1/2	1,986.24	1/2	1,626.59	1/2	1,266.94	1/2	918.49	1/2	562.13	1/2	202.47	1/2		1/2		1/2	
3/4	2,338.41	3/4	1,978.75	3/4	1,619.10	3/4	1,259.44	3/4	911.31	3/4	554.63	3/4	194.98	3/4		3/4		3/4	
9	2,330.91	9	1,971.26	9	1,611.60	9	1,251.95	9	904.12	9	547.14	9	187.49	9		9		9	
1/4	2,323.42	1/4	1,963.77	1/4	1,604.11	1/4	1,244.46	1/4	896.94	1/4	539.65	1/4	179.99	1/4		1/4		1/4	
1/2	2,315.93	1/2	1,956.27	1/2	1,596.62	1/2	1,236.96	1/2	889.75	1/2	532.15	1/2	172.50	1/2		1/2		1/2	
3/4	2,308.44	3/4	1,948.78	3/4	1,589.13	3/4	1,229.47	3/4	882.57	3/4	524.66	3/4	165.01	3/4		3/4		3/4	
10	2,300.94	10	1,941.29	10	1,581.63	10	1,221.98	10	875.38	10	517.17	10	157.51	10		10		10	
1/4	2,293.45	1/4	1,933.80	1/4	1,574.14	1/4	1,214.49	1/4	868.20	1/4	509.68	1/4	150.02	1/4		1/4		1/4	
1/2	2,285.96	1/2	1,926.30	1/2	1,566.65	1/2	1,206.99	1/2	860.99	1/2	502.18	1/2	142.53	1/2		1/2		1/2	
3/4	2,278.46	3/4	1,918.81	3/4	1,559.16	3/4	1,199.50	3/4	853.78	3/4	494.69	3/4	135.04	3/4		3/4		3/4	
11	2,270.97	11	1,911.32	11	1,551.66	11	1,192.01	11	846.57	11	487.20	11	127.55	11		11		11	
1/4	2,263.48	1/4	1,903.82	1/4	1,544.17	1/4	1,184.52	1/4	839.36	1/4	479.70	1/4	120.06	1/4		1/4		1/4	
1/2	2,255.99	1/2	1,896.33	1/2	1,536.68	1/2	1,177.31	1/2	831.87	1/2	472.21	1/2	112.57	1/2		1/2		1/2	
3/4	2,248.49	3/4	1,888.84	3/4	1,529.18	3/4	1,170.10	3/4	824.37	3/4	464.72	3/4	105.09	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0		0	4,799.83	0	4,441.31	0	4,082.80	0	3,723.27	0	3,363.73	0	3,004.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,792.36	1/4	4,433.85	1/4	4,075.33	1/4	3,715.78	1/4	3,356.24	1/4	2,996.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,784.89	1/2	4,426.38	1/2	4,067.84	1/2	3,708.29	1/2	3,348.74	1/2	2,989.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,777.42	3/4	4,418.91	3/4	4,060.35	3/4	3,700.80	3/4	3,341.25	3/4	2,981.71		
1		1		1		1		1	4,769.95	1	4,411.44	1	4,052.86	1	3,693.31	1	3,333.76	1	2,974.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,105.55	1/4	4,762.48	1/4	4,403.97	1/4	4,045.37	1/4	3,685.82	1/4	3,326.27	1/4	2,966.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,100.34	1/2	4,755.01	1/2	4,396.50	1/2	4,037.88	1/2	3,678.33	1/2	3,318.78	1/2	2,959.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,095.12	3/4	4,747.54	3/4	4,389.03	3/4	4,030.39	3/4	3,670.84	3/4	3,311.29	3/4	2,951.74
2		2		2		2		2	5,089.91	2	4,740.07	2	4,381.56	2	4,022.90	2	3,663.35	2	3,303.80	2	2,944.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,084.70	1/4	4,732.61	1/4	4,374.09	1/4	4,015.41	1/4	3,655.86	1/4	3,296.31	1/4	2,936.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,078.24	1/2	4,725.14	1/2	4,366.62	1/2	4,007.92	1/2	3,648.37	1/2	3,288.82	1/2	2,929.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.78	3/4	4,717.67	3/4	4,359.16	3/4	4,000.43	3/4	3,640.88	3/4	3,281.33	3/4	2,921.78
3		3		3		3		3	5,065.32	3	4,710.20	3	4,351.69	3	3,992.94	3	3,633.39	3	3,273.84	3	2,914.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,058.86	1/4	4,702.73	1/4	4,344.22	1/4	3,985.45	1/4	3,625.90	1/4	3,266.35	1/4	2,906.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,051.53	1/2	4,695.26	1/2	4,336.75	1/2	3,977.96	1/2	3,618.41	1/2	3,258.86	1/2	2,899.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,044.21	3/4	4,687.79	3/4	4,329.28	3/4	3,970.46	3/4	3,610.92	3/4	3,251.37	3/4	2,891.82
4		4		4		4		4	5,036.88	4	4,680.32	4	4,321.81	4	3,962.97	4	3,603.43	4	3,243.88	4	2,884.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,029.55	1/4	4,672.85	1/4	4,314.34	1/4	3,955.48	1/4	3,595.93	1/4	3,236.39	1/4	2,876.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,022.17	1/2	4,665.38	1/2	4,306.87	1/2	3,947.99	1/2	3,588.44	1/2	3,228.90	1/2	2,869.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,014.79	3/4	4,657.92	3/4	4,299.40	3/4	3,940.50	3/4	3,580.95	3/4	3,221.40	3/4	2,861.86
5		5		5		5		5	5,007.40	5	4,650.45	5	4,291.93	5	3,933.01	5	3,573.46	5	3,213.91	5	2,854.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,000.02	1/4	4,642.98	1/4	4,284.47	1/4	3,925.52	1/4	3,565.97	1/4	3,206.42	1/4	2,846.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,992.63	1/2	4,635.51	1/2	4,277.00	1/2	3,918.03	1/2	3,558.48	1/2	3,198.93	1/2	2,839.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,985.23	3/4	4,628.04	3/4	4,269.53	3/4	3,910.54	3/4	3,550.99	3/4	3,191.44	3/4	2,831.89
6		6		6		6		6	4,977.84	6	4,620.57	6	4,262.06	6	3,903.05	6	3,543.50	6	3,183.95	6	2,824.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,970.44	1/4	4,613.10	1/4	4,254.59	1/4	3,895.56	1/4	3,536.01	1/4	3,176.46	1/4	2,816.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,963.04	1/2	4,605.63	1/2	4,247.12	1/2	3,888.07	1/2	3,528.52	1/2	3,168.97	1/2	2,809.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,955.65	3/4	4,598.16	3/4	4,239.65	3/4	3,880.58	3/4	3,521.03	3/4	3,161.48	3/4	2,801.93
7		7		7		7		7	4,948.25	7	4,590.69	7	4,232.18	7	3,873.09	7	3,513.54	7	3,153.99	7	2,794.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,940.85	1/4	4,583.23	1/4	4,224.71	1/4	3,865.60	1/4	3,506.05	1/4	3,146.50	1/4	2,786.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,933.46	1/2	4,575.76	1/2	4,217.24	1/2	3,858.11	1/2	3,498.56	1/2	3,139.01	1/2	2,779.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,926.06	3/4	4,568.29	3/4	4,209.78	3/4	3,850.62	3/4	3,491.07	3/4	3,131.52	3/4	2,771.97
8		8		8		8		8	4,918.67	8	4,560.82	8	4,202.31	8	3,843.12	8	3,483.58	8	3,124.03	8	2,764.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,911.27	1/4	4,553.35	1/4	4,194.84	1/4	3,835.63	1/4	3,476.09	1/4	3,116.54	1/4	2,756.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,903.88	1/2	4,545.88	1/2	4,187.37	1/2	3,828.14	1/2	3,468.59	1/2	3,109.05	1/2	2,749.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,896.48	3/4	4,538.41	3/4	4,179.90	3/4	3,820.65	3/4	3,461.10	3/4	3,101.56	3/4	2,742.01
9		9		9		9		9	4,889.09	9	4,530.94	9	4,172.43	9	3,813.16	9	3,453.61	9	3,094.06	9	2,734.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,881.69	1/4	4,523.47	1/4	4,164.96	1/4	3,805.67	1/4	3,446.12	1/4	3,086.57	1/4	2,727.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,874.29	1/2	4,516.00	1/2	4,157.49	1/2	3,798.18	1/2	3,438.63	1/2	3,079.08	1/2	2,719.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,866.90	3/4	4,508.54	3/4	4,150.02	3/4	3,790.69	3/4	3,431.14	3/4	3,071.59	3/4	2,712.04
10		10		10		10		10	4,859.50	10	4,501.07	10	4,142.55	10	3,783.20	10	3,423.65	10	3,064.10	10	2,704.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,852.11	1/4	4,493.60	1/4	4,135.09	1/4	3,775.71	1/4	3,416.16	1/4	3,056.61	1/4	2,697.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,844.64	1/2	4,486.13	1/2	4,127.62	1/2	3,768.22	1/2	3,408.67	1/2	3,049.12	1/2	2,689.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,837.17	3/4	4,478.66	3/4	4,120.15	3/4	3,760.73	3/4	3,401.18	3/4	3,041.63	3/4	2,682.08
11		11		11		11		11	4,829.70	11	4,471.19	11	4,112.68	11	3,753.24	11	3,393.69	11	3,034.14	11	2,674.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,822.23	1/4	4,463.72	1/4	4,105.21	1/4	3,745.75	1/4	3,386.20	1/4	3,026.65	1/4	2,667.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,814.76	1/2	4,456.25	1/2	4,097.74	1/2	3,738.26	1/2	3,378.71	1/2	3,019.16	1/2	2,659.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,807.30	3/4	4,448.78	3/4	4,090.27	3/4	3,730.77	3/4	3,371.22	3/4	3,011.67	3/4	2,652.11

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 302"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04 1/4"

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	2,644.62	0	2,284.97	0	1,925.31	0	1,565.66	0	1,206.00	0	846.85	0	487.20	0	127.55	0		0	
1/4	2,637.13	1/4	2,277.47	1/4	1,917.82	1/4	1,558.17	1/4	1,198.51	1/4	839.36	1/4	479.71	1/4	120.06	1/4		1/4	
1/2	2,629.64	1/2	2,269.98	1/2	1,910.33	1/2	1,550.67	1/2	1,191.02	1/2	831.87	1/2	472.21	1/2	112.57	1/2		1/2	
3/4	2,622.14	3/4	2,262.49	3/4	1,902.83	3/4	1,543.18	3/4	1,183.53	3/4	824.37	3/4	464.72	3/4	105.09	3/4		3/4	
1	2,614.65	1	2,255.00	1	1,895.34	1	1,535.69	1	1,176.03	1	816.88	1	457.23	1	97.61	1		1	
1/4	2,607.16	1/4	2,247.50	1/4	1,887.85	1/4	1,528.19	1/4	1,168.54	1/4	809.39	1/4	449.73	1/4	90.13	1/4		1/4	
1/2	2,599.67	1/2	2,240.01	1/2	1,880.36	1/2	1,520.70	1/2	1,161.05	1/2	801.90	1/2	442.24	1/2	82.67	1/2		1/2	
3/4	2,592.17	3/4	2,232.52	3/4	1,872.86	3/4	1,513.21	3/4	1,153.57	3/4	794.40	3/4	434.75	3/4	75.21	3/4		3/4	
2	2,584.68	2	2,225.03	2	1,865.37	2	1,505.72	2	1,146.08	2	786.91	2	427.26	2	67.76	2		2	
1/4	2,577.19	1/4	2,217.53	1/4	1,857.88	1/4	1,498.22	1/4	1,138.59	1/4	779.42	1/4	419.76	1/4	60.30	1/4		1/4	
1/2	2,569.69	1/2	2,210.04	1/2	1,850.39	1/2	1,490.73	1/2	1,131.10	1/2	771.92	1/2	412.27	1/2	53.75	1/2		1/2	
3/4	2,562.20	3/4	2,202.55	3/4	1,842.89	3/4	1,483.24	3/4	1,123.62	3/4	764.43	3/4	404.78	3/4	47.19	3/4		3/4	
3	2,554.71	3	2,195.05	3	1,835.40	3	1,475.75	3	1,116.13	3	756.94	3	397.28	3	40.64	3		3	
1/4	2,547.22	1/4	2,187.56	1/4	1,827.91	1/4	1,468.25	1/4	1,108.64	1/4	749.45	1/4	389.79	1/4	34.08	1/4		1/4	
1/2	2,539.72	1/2	2,180.07	1/2	1,820.41	1/2	1,460.76	1/2	1,101.16	1/2	741.95	1/2	382.30	1/2	29.40	1/2		1/2	
3/4	2,532.23	3/4	2,172.58	3/4	1,812.92	3/4	1,453.27	3/4	1,093.69	3/4	734.46	3/4	374.81	3/4	24.72	3/4		3/4	
4	2,524.74	4	2,165.08	4	1,805.43	4	1,445.77	4	1,086.21	4	726.97	4	367.31	4	20.03	4		4	
1/4	2,517.24	1/4	2,157.59	1/4	1,797.94	1/4	1,438.28	1/4	1,078.73	1/4	719.47	1/4	359.82	1/4	15.35	1/4		1/4	
1/2	2,509.75	1/2	2,150.10	1/2	1,790.44	1/2	1,430.79	1/2	1,071.25	1/2	711.98	1/2	352.33	1/2		1/2		1/2	
3/4	2,502.26	3/4	2,142.60	3/4	1,782.95	3/4	1,423.30	3/4	1,063.77	3/4	704.49	3/4	344.83	3/4		3/4		3/4	
5	2,494.77	5	2,135.11	5	1,775.46	5	1,415.80	5	1,056.29	5	697.00	5	337.34	5		5		5	
1/4	2,487.27	1/4	2,127.62	1/4	1,767.96	1/4	1,408.31	1/4	1,048.81	1/4	689.50	1/4	329.85	1/4		1/4		1/4	
1/2	2,479.78	1/2	2,120.13	1/2	1,760.47	1/2	1,400.82	1/2	1,041.34	1/2	682.01	1/2	322.36	1/2		1/2		1/2	
3/4	2,472.29	3/4	2,112.63	3/4	1,752.98	3/4	1,393.32	3/4	1,033.86	3/4	674.52	3/4	314.86	3/4		3/4		3/4	
6	2,464.79	6	2,105.14	6	1,745.49	6	1,385.83	6	1,026.38	6	667.03	6	307.37	6		6		6	
1/4	2,457.30	1/4	2,097.65	1/4	1,737.99	1/4	1,378.34	1/4	1,018.90	1/4	659.53	1/4	299.88	1/4		1/4		1/4	
1/2	2,449.81	1/2	2,090.15	1/2	1,730.50	1/2	1,370.85	1/2	1,011.42	1/2	652.04	1/2	292.39	1/2		1/2		1/2	
3/4	2,442.32	3/4	2,082.66	3/4	1,723.01	3/4	1,363.35	3/4	1,003.94	3/4	644.55	3/4	284.89	3/4		3/4		3/4	
7	2,434.82	7	2,075.17	7	1,715.51	7	1,355.86	7	996.47	7	637.05	7	277.40	7		7		7	
1/4	2,427.33	1/4	2,067.68	1/4	1,708.02	1/4	1,348.37	1/4	988.99	1/4	629.56	1/4	269.91	1/4		1/4		1/4	
1/2	2,419.84	1/2	2,060.18	1/2	1,700.53	1/2	1,340.87	1/2	981.51	1/2	622.07	1/2	262.41	1/2		1/2		1/2	
3/4	2,412.35	3/4	2,052.69	3/4	1,693.04	3/4	1,333.38	3/4	974.03	3/4	614.58	3/4	254.92	3/4		3/4		3/4	
8	2,404.85	8	2,045.20	8	1,685.54	8	1,325.89	8	966.55	8	607.08	8	247.43	8		8		8	
1/4	2,397.36	1/4	2,037.71	1/4	1,678.05	1/4	1,318.40	1/4	959.07	1/4	599.59	1/4	239.94	1/4		1/4		1/4	
1/2	2,389.87	1/2	2,030.21	1/2	1,670.56	1/2	1,310.90	1/2	951.59	1/2	592.10	1/2	232.44	1/2		1/2		1/2	
3/4	2,382.37	3/4	2,022.72	3/4	1,663.07	3/4	1,303.41	3/4	944.12	3/4	584.60	3/4	224.95	3/4		3/4		3/4	
9	2,374.88	9	2,015.23	9	1,655.57	9	1,295.92	9	936.64	9	577.11	9	217.46	9		9		9	
1/4	2,367.39	1/4	2,007.73	1/4	1,648.08	1/4	1,288.43	1/4	929.16	1/4	569.62	1/4	209.96	1/4		1/4		1/4	
1/2	2,359.90	1/2	2,000.24	1/2	1,640.59	1/2	1,280.93	1/2	921.68	1/2	562.13	1/2	202.47	1/2		1/2		1/2	
3/4	2,352.40	3/4	1,992.75	3/4	1,633.09	3/4	1,273.44	3/4	914.20	3/4	554.63	3/4	194.98	3/4		3/4		3/4	
10	2,344.91	10	1,985.26	10	1,625.60	10	1,265.95	10	906.72	10	547.14	10	187.49	10		10		10	
1/4	2,337.42	1/4	1,977.76	1/4	1,618.11	1/4	1,258.45	1/4	899.24	1/4	539.65	1/4	179.99	1/4		1/4		1/4	
1/2	2,329.92	1/2	1,970.27	1/2	1,610.62	1/2	1,250.96	1/2	891.77	1/2	532.15	1/2	172.50	1/2		1/2		1/2	
3/4	2,322.43	3/4	1,962.78	3/4	1,603.12	3/4	1,243.47	3/4	884.29	3/4	524.66	3/4	165.01	3/4		3/4		3/4	
11	2,314.94	11	1,955.28	11	1,595.63	11	1,235.98	11	876.81	11	517.17	11	157.51	11		11		11	
1/4	2,307.45	1/4	1,947.79	1/4	1,588.14	1/4	1,228.48	1/4	869.33	1/4	509.68	1/4	150.02	1/4		1/4		1/4	
1/2	2,299.95	1/2	1,940.30	1/2	1,580.64	1/2	1,220.99	1/2	861.84	1/2	502.18	1/2	142.53	1/2		1/2		1/2	
3/4	2,292.46	3/4	1,932.81	3/4	1,573.15	3/4	1,213.50	3/4	854.35	3/4	494.69	3/4	135.04	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4		1/4	4,258.42	1/4	4,039.13	1/4	3,819.82	1/4	3,599.92	1/4	3,306.84	1/4	2,950.20		
1/2		1/2		1/2		1/2	4,459.14	1/2	4,249.28	1/2	4,030.00	1/2	3,810.66	1/2	3,590.76	1/2	3,292.02	1/2	2,935.32		
3/4		3/4		3/4		3/4	4,455.95	3/4	4,244.72	3/4	4,025.43	3/4	3,806.08	3/4	3,586.18	3/4	3,284.61	3/4	2,927.88		
1	1	1	1	1	1	1	4,452.76	1	4,240.15	1	4,020.86	1	3,801.50	1	3,581.60	1	3,277.20	1	2,920.45		
1/4		1/4		1/4		1/4	4,449.57	1/4	4,235.58	1/4	4,016.29	1/4	3,796.91	1/4	3,577.02	1/4	3,269.79	1/4	2,913.01		
1/2		1/2		1/2		1/2	4,446.39	1/2	4,231.01	1/2	4,011.72	1/2	3,792.33	1/2	3,572.44	1/2	3,262.38	1/2	2,905.57		
3/4		3/4		3/4		3/4	4,442.43	3/4	4,226.44	3/4	4,007.15	3/4	3,787.75	3/4	3,567.85	3/4	3,254.97	3/4	2,898.13		
2	2	2	2	2	2	2	4,438.48	2	4,221.87	2	4,002.59	2	3,783.17	2	3,563.27	2	3,247.56	2	2,890.69		
1/4		1/4		1/4		1/4	4,434.53	1/4	4,217.31	1/4	3,998.02	1/4	3,778.59	1/4	3,558.69	1/4	3,240.15	1/4	2,883.25		
1/2		1/2		1/2		1/2	4,430.58	1/2	4,212.74	1/2	3,993.45	1/2	3,774.01	1/2	3,554.11	1/2	3,232.74	1/2	2,875.81		
3/4		3/4		3/4		3/4	4,426.10	3/4	4,208.17	3/4	3,988.88	3/4	3,769.43	3/4	3,549.29	3/4	3,225.33	3/4	2,868.38		
3	3	3	3	3	3	3	4,421.62	3	4,203.60	3	3,984.31	3	3,764.85	3	3,544.47	3	3,217.92	3	2,860.94		
1/4		1/4		1/4		1/4	4,417.13	1/4	4,199.03	1/4	3,979.74	1/4	3,760.26	1/4	3,539.65	1/4	3,210.51	1/4	2,853.50		
1/2		1/2		1/2		1/2	4,412.65	1/2	4,194.46	1/2	3,975.17	1/2	3,755.68	1/2	3,534.83	1/2	3,203.10	1/2	2,846.06		
3/4		3/4		3/4		3/4	4,408.14	3/4	4,189.89	3/4	3,970.61	3/4	3,751.10	3/4	3,529.56	3/4	3,195.67	3/4	2,838.62		
4	4	4	4	4	4	4	4,403.62	4	4,185.33	4	3,966.04	4	3,746.52	4	3,524.30	4	3,189.23	4	2,831.18		
1/4		1/4		1/4		1/4	4,399.11	1/4	4,180.76	1/4	3,961.47	1/4	3,741.94	1/4	3,519.03	1/4	3,180.79	1/4	2,823.75		
1/2		1/2		1/2		1/2	4,394.59	1/2	4,176.19	1/2	3,956.90	1/2	3,737.36	1/2	3,513.77	1/2	3,173.35	1/2	2,816.31		
3/4		3/4		3/4		3/4	4,390.07	3/4	4,171.62	3/4	3,952.33	3/4	3,732.78	3/4	3,508.03	3/4	3,165.91	3/4	2,808.87		
5	5	5	5	5	5	5	4,385.54	5	4,167.05	5	3,947.76	5	3,728.20	5	3,502.28	5	3,158.47	5	2,801.43		
1/4		1/4		1/4		1/4	4,381.02	1/4	4,162.48	1/4	3,943.20	1/4	3,723.62	1/4	3,496.54	1/4	3,151.04	1/4	2,793.99		
1/2		1/2		1/2		1/2	4,376.49	1/2	4,157.91	1/2	3,938.63	1/2	3,719.03	1/2	3,490.79	1/2	3,143.60	1/2	2,786.55		
3/4		3/4		3/4		3/4	4,371.97	3/4	4,153.35	3/4	3,934.06	3/4	3,714.45	3/4	3,484.58	3/4	3,136.16	3/4	2,779.12		
6	6	6	6	6	6	6	4,367.44	6	4,148.78	6	3,929.49	6	3,709.87	6	3,478.37	6	3,128.72	6	2,771.68		
1/4		1/4		1/4		1/4	4,362.92	1/4	4,144.21	1/4	3,924.92	1/4	3,705.29	1/4	3,472.16	1/4	3,121.28	1/4	2,764.24		
1/2		1/2		1/2		1/2	4,358.39	1/2	4,139.64	1/2	3,920.35	1/2	3,700.71	1/2	3,465.94	1/2	3,113.84	1/2	2,756.80		
3/4		3/4		3/4		3/4	4,353.87	3/4	4,135.07	3/4	3,915.78	3/4	3,696.13	3/4	3,459.25	3/4	3,106.41	3/4	2,749.36		
7	7	7	7	7	7	7	4,349.35	7	4,130.50	7	3,911.22	7	3,691.55	7	3,452.56	7	3,098.97	7	2,741.92		
1/4		1/4		1/4		1/4	4,344.82	1/4	4,125.94	1/4	3,906.65	1/4	3,686.97	1/4	3,445.87	1/4	3,091.53	1/4	2,734.49		
1/2		1/2		1/2		1/2	4,340.30	1/2	4,121.37	1/2	3,902.08	1/2	3,682.38	1/2	3,439.18	1/2	3,084.09	1/2	2,727.05		
3/4		3/4		3/4		3/4	4,335.77	3/4	4,116.80	3/4	3,897.51	3/4	3,677.80	3/4	3,432.01	3/4	3,076.65	3/4	2,719.61		
8	8	8	8	8	8	8	4,331.25	8	4,112.23	8	3,892.94	8	3,673.22	8	3,424.85	8	3,069.21	8	2,712.17		
1/4		1/4		1/4		1/4	4,326.73	1/4	4,107.66	1/4	3,888.37	1/4	3,668.64	1/4	3,417.68	1/4	3,061.77	1/4	2,704.73		
1/2		1/2		1/2		1/2	4,322.20	1/2	4,103.09	1/2	3,883.80	1/2	3,664.06	1/2	3,410.51	1/2	3,054.34	1/2	2,697.29		
3/4		3/4		3/4		3/4	4,317.68	3/4	4,098.52	3/4	3,879.24	3/4	3,659.48	3/4	3,403.11	3/4	3,046.90	3/4	2,689.85		
9	9	9	9	9	9	9	4,313.15	9	4,093.96	9	3,874.67	9	3,654.90	9	3,395.71	9	3,039.46	9	2,682.42		
1/4		1/4		1/4		1/4	4,308.63	1/4	4,089.39	1/4	3,870.10	1/4	3,650.32	1/4	3,388.32	1/4	3,032.02	1/4	2,674.98		
1/2		1/2		1/2		1/2	4,304.11	1/2	4,084.82	1/2	3,865.53	1/2	3,645.73	1/2	3,380.92	1/2	3,024.58	1/2	2,667.54		
3/4		3/4		3/4		3/4	4,299.54	3/4	4,080.25	3/4	3,860.96	3/4	3,641.15	3/4	3,373.52	3/4	3,017.14	3/4	2,660.10		
10	10	10	10	10	10	10	4,294.97	10	4,075.68	10	3,856.39	10	3,636.57	10	3,366.11	10	3,009.71	10	2,652.66		
1/4		1/4		1/4		1/4	4,290.40	1/4	4,071.11	1/4	3,851.83	1/4	3,631.99	1/4	3,358.70	1/4	3,002.27	1/4	2,645.22		
1/2		1/2		1/2		1/2	4,285.83	1/2	4,066.54	1/2	3,847.26	1/2	3,627.41	1/2	3,351.30	1/2	2,994.83	1/2	2,637.79		
3/4		3/4		3/4		3/4	4,281.26	3/4	4,061.98	3/4	3,842.69	3/4	3,622.83	3/4	3,343.89	3/4	2,987.39	3/4	2,630.35		
11	11	11	11	11	11	11	4,276.70	11	4,057.41	11	3,838.12	11	3,618.25	11	3,336.48	11	2,979.95	11	2,622.91		
1/4		1/4		1/4		1/4	4,272.13	1/4	4,052.84	1/4	3,833.55	1/4	3,613.67	1/4	3,329.07	1/4	2,972.51	1/4	2,615.47		
1/2		1/2		1/2		1/2	4,267.56	1/2	4,048.27	1/2	3,828.98	1/2	3,609.09	1/2	3,321.66	1/2	2,965.08	1/2	2,608.03		
3/4		3/4		3/4		3/4	4,262.99	3/4	4,043.70	3/4	3,824.40	3/4	3,604.50	3/4	3,314.25	3/4	2,957.64	3/4	2,600.59		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 302"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

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	2,593.15	0	2,235.85	0	1,879.03	0	1,521.89	0	1,164.88	0	820.17	0	462.62	0	104.68	0		0	
1/4	2,585.71	1/4	2,228.40	1/4	1,871.60	1/4	1,514.45	1/4	1,157.64	1/4	812.78	1/4	455.17	1/4	97.22	1/4		1/4	
1/2	2,578.27	1/2	2,220.96	1/2	1,864.17	1/2	1,507.00	1/2	1,150.40	1/2	805.39	1/2	447.72	1/2	89.77	1/2		1/2	
3/4	2,570.83	3/4	2,213.52	3/4	1,856.74	3/4	1,499.55	3/4	1,143.17	3/4	797.94	3/4	440.27	3/4	82.35	3/4		3/4	
1	2,563.39	1	2,206.07	1	1,849.31	1	1,492.11	1	1,135.95	1	790.49	1	432.82	1	74.92	1		1	
1/4	2,555.95	1/4	2,198.63	1/4	1,841.88	1/4	1,484.66	1/4	1,128.72	1/4	783.04	1/4	425.37	1/4	67.49	1/4		1/4	
1/2	2,548.51	1/2	2,191.19	1/2	1,834.45	1/2	1,477.21	1/2	1,121.50	1/2	775.59	1/2	417.92	1/2	60.07	1/2		1/2	
3/4	2,541.07	3/4	2,183.74	3/4	1,827.02	3/4	1,469.77	3/4	1,114.27	3/4	768.14	3/4	410.46	3/4	53.54	3/4		3/4	
2	2,533.63	2	2,176.30	2	1,819.59	2	1,462.32	2	1,107.05	2	760.68	2	403.01	2	47.01	2		2	
1/4	2,526.19	1/4	2,168.86	1/4	1,812.16	1/4	1,454.87	1/4	1,099.82	1/4	753.23	1/4	395.56	1/4	40.48	1/4		1/4	
1/2	2,518.75	1/2	2,161.42	1/2	1,804.73	1/2	1,447.43	1/2	1,092.60	1/2	745.78	1/2	388.11	1/2	33.95	1/2		1/2	
3/4	2,511.31	3/4	2,153.97	3/4	1,797.30	3/4	1,439.98	3/4	1,085.44	3/4	738.33	3/4	380.66	3/4	29.29	3/4		3/4	
3	2,503.87	3	2,146.53	3	1,789.87	3	1,432.53	3	1,078.29	3	730.88	3	373.21	3	24.62	3		3	
1/4	2,496.43	1/4	2,139.09	1/4	1,782.44	1/4	1,425.09	1/4	1,071.13	1/4	723.43	1/4	365.75	1/4	19.96	1/4		1/4	
1/2	2,488.99	1/2	2,131.64	1/2	1,775.01	1/2	1,417.64	1/2	1,063.98	1/2	715.98	1/2	358.30	1/2	15.29	1/2		1/2	
3/4	2,481.55	3/4	2,124.20	3/4	1,767.58	3/4	1,410.19	3/4	1,056.82	3/4	708.52	3/4	350.85	3/4		3/4		3/4	
4	2,474.11	4	2,116.76	4	1,760.15	4	1,402.75	4	1,049.67	4	701.07	4	343.40	4		4		4	
1/4	2,466.68	1/4	2,109.31	1/4	1,752.72	1/4	1,395.30	1/4	1,042.52	1/4	693.62	1/4	335.95	1/4		1/4		1/4	
1/2	2,459.24	1/2	2,101.87	1/2	1,745.29	1/2	1,387.86	1/2	1,035.36	1/2	686.17	1/2	328.50	1/2		1/2		1/2	
3/4	2,451.80	3/4	2,094.45	3/4	1,737.84	3/4	1,380.41	3/4	1,028.21	3/4	678.72	3/4	321.05	3/4		3/4		3/4	
5	2,444.36	5	2,087.02	5	1,730.39	5	1,372.96	5	1,021.05	5	671.27	5	313.59	5		5		5	
1/4	2,436.92	1/4	2,079.60	1/4	1,722.95	1/4	1,365.52	1/4	1,013.90	1/4	663.81	1/4	306.14	1/4		1/4		1/4	
1/2	2,429.48	1/2	2,072.18	1/2	1,715.50	1/2	1,358.07	1/2	1,006.74	1/2	656.36	1/2	298.69	1/2		1/2		1/2	
3/4	2,422.03	3/4	2,064.76	3/4	1,708.05	3/4	1,350.62	3/4	999.59	3/4	648.91	3/4	291.23	3/4		3/4		3/4	
6	2,414.58	6	2,057.33	6	1,700.61	6	1,343.18	6	992.43	6	641.46	6	283.76	6		6		6	
1/4	2,407.13	1/4	2,049.91	1/4	1,693.16	1/4	1,335.73	1/4	985.28	1/4	634.01	1/4	276.30	1/4		1/4		1/4	
1/2	2,399.68	1/2	2,042.49	1/2	1,685.72	1/2	1,328.28	1/2	978.12	1/2	626.56	1/2	268.84	1/2		1/2		1/2	
3/4	2,392.23	3/4	2,035.06	3/4	1,678.27	3/4	1,320.84	3/4	970.97	3/4	619.11	3/4	261.38	3/4		3/4		3/4	
7	2,384.79	7	2,027.63	7	1,670.82	7	1,313.39	7	963.81	7	611.65	7	253.91	7		7		7	
1/4	2,377.34	1/4	2,020.20	1/4	1,663.38	1/4	1,305.94	1/4	956.66	1/4	604.20	1/4	246.45	1/4		1/4		1/4	
1/2	2,369.89	1/2	2,012.77	1/2	1,655.93	1/2	1,298.50	1/2	949.51	1/2	596.75	1/2	238.99	1/2		1/2		1/2	
3/4	2,362.44	3/4	2,005.34	3/4	1,648.48	3/4	1,291.05	3/4	942.35	3/4	589.30	3/4	231.52	3/4		3/4		3/4	
8	2,354.99	8	1,997.91	8	1,641.04	8	1,283.60	8	935.20	8	581.85	8	224.06	8		8		8	
1/4	2,347.54	1/4	1,990.48	1/4	1,633.59	1/4	1,276.16	1/4	928.04	1/4	574.40	1/4	216.60	1/4		1/4		1/4	
1/2	2,340.09	1/2	1,983.05	1/2	1,626.14	1/2	1,268.71	1/2	920.89	1/2	566.95	1/2	209.13	1/2		1/2		1/2	
3/4	2,332.65	3/4	1,975.62	3/4	1,618.70	3/4	1,261.26	3/4	913.73	3/4	559.49	3/4	201.67	3/4		3/4		3/4	
9	2,325.20	9	1,968.19	9	1,611.25	9	1,253.82	9	906.58	9	552.04	9	194.21	9		9		9	
1/4	2,317.75	1/4	1,960.76	1/4	1,603.80	1/4	1,246.37	1/4	899.42	1/4	544.59	1/4	186.74	1/4		1/4		1/4	
1/2	2,310.30	1/2	1,953.33	1/2	1,596.36	1/2	1,238.93	1/2	892.27	1/2	537.14	1/2	179.28	1/2		1/2		1/2	
3/4	2,302.85	3/4	1,945.90	3/4	1,588.91	3/4	1,231.48	3/4	885.11	3/4	529.69	3/4	171.82	3/4		3/4		3/4	
10	2,295.40	10	1,938.47	10	1,581.46	10	1,224.03	10	877.96	10	522.24	10	164.36	10		10		10	
1/4	2,287.95	1/4	1,931.04	1/4	1,574.02	1/4	1,216.59	1/4	870.80	1/4	514.78	1/4	156.89	1/4		1/4		1/4	
1/2	2,280.51	1/2	1,923.61	1/2	1,566.57	1/2	1,209.14	1/2	863.65	1/2	507.33	1/2	149.43	1/2		1/2		1/2	
3/4	2,273.06	3/4	1,916.18	3/4	1,559.12	3/4	1,201.69	3/4	856.47	3/4	499.88	3/4	141.97	3/4		3/4		3/4	
11	2,265.62	11	1,908.75	11	1,551.68	11	1,194.25	11	849.30	11	492.43	11	134.51	11		11		11	
1/4	2,258.18	1/4	1,901.32	1/4	1,544.23	1/4	1,186.80	1/4	842.12	1/4	484.98	1/4	127.04	1/4		1/4		1/4	
1/2	2,250.73	1/2	1,893.89	1/2	1,536.79	1/2	1,179.35	1/2	834.94	1/2	477.53	1/2	119.58	1/2		1/2		1/2	
3/4	2,243.29	3/4	1,886.46	3/4	1,529.34	3/4	1,172.11	3/4	827.55	3/4	470.08	3/4	112.13	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013



BARGE "E2MS 302"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4		1/4	4,276.42	1/4	4,057.21	1/4	3,837.98	1/4	3,618.17	1/4	3,324.86	1/4	2,967.71
1/2		1/2		1/2		1/2	4,477.03	1/2	4,267.28	1/2	4,048.08	1/2	3,828.82	1/2	3,609.01	1/2	3,310.02	1/2	2,952.81
3/4		3/4		3/4		3/4	4,473.85	3/4	4,262.72	3/4	4,043.51	3/4	3,824.24	3/4	3,604.43	3/4	3,302.60	3/4	2,945.36
1	1	1	1	1	1	1	4,470.66	1	4,258.15	1	4,038.94	1	3,819.66	1	3,599.85	1	3,305.18	1	2,937.91
1/4		1/4		1/4		1/4	4,467.47	1/4	4,253.58	1/4	4,034.38	1/4	3,815.08	1/4	3,595.27	1/4	3,287.76	1/4	2,930.47
1/2		1/2		1/2		1/2	4,464.29	1/2	4,249.02	1/2	4,029.81	1/2	3,810.50	1/2	3,590.69	1/2	3,280.34	1/2	2,923.02
3/4		3/4		3/4		3/4	4,460.34	3/4	4,244.45	3/4	4,025.24	3/4	3,805.92	3/4	3,586.11	3/4	3,272.92	3/4	2,915.57
2	2	2	2	2	2	2	4,456.39	2	4,239.88	2	4,020.68	2	3,801.34	2	3,581.53	2	3,265.50	2	2,908.12
1/4		1/4		1/4		1/4	4,452.44	1/4	4,235.32	1/4	4,016.11	1/4	3,796.76	1/4	3,576.95	1/4	3,258.08	1/4	2,900.67
1/2		1/2		1/2		1/2	4,448.49	1/2	4,230.75	1/2	4,011.54	1/2	3,792.19	1/2	3,572.37	1/2	3,250.66	1/2	2,893.22
3/4		3/4		3/4		3/4	4,444.01	3/4	4,226.18	3/4	4,006.98	3/4	3,787.61	3/4	3,567.55	3/4	3,243.23	3/4	2,885.77
3	3	3	3	3	3	3	4,439.53	3	4,221.62	3	4,002.41	3	3,783.03	3	3,562.74	3	3,235.81	3	2,878.32
1/4		1/4		1/4		1/4	4,435.05	1/4	4,217.05	1/4	3,997.84	1/4	3,778.45	1/4	3,557.92	1/4	3,228.39	1/4	2,870.87
1/2		1/2		1/2		1/2	4,430.57	1/2	4,212.48	1/2	3,993.28	1/2	3,773.87	1/2	3,553.10	1/2	3,220.97	1/2	2,863.43
3/4		3/4		3/4		3/4	4,426.05	3/4	4,207.92	3/4	3,988.71	3/4	3,769.29	3/4	3,547.84	3/4	3,213.52	3/4	2,855.98
4	4	4	4	4	4	4	4,421.54	4	4,203.35	4	3,984.14	4	3,764.71	4	3,542.57	4	3,206.08	4	2,848.53
1/4		1/4		1/4		1/4	4,417.03	1/4	4,198.78	1/4	3,979.58	1/4	3,760.13	1/4	3,537.31	1/4	3,198.63	1/4	2,841.08
1/2		1/2		1/2		1/2	4,412.51	1/2	4,194.21	1/2	3,975.01	1/2	3,755.55	1/2	3,532.05	1/2	3,191.18	1/2	2,833.63
3/4		3/4		3/4		3/4	4,407.99	3/4	4,189.65	3/4	3,970.44	3/4	3,750.97	3/4	3,526.31	3/4	3,183.73	3/4	2,826.18
5	5	5	5	5	5	5	4,403.47	5	4,185.08	5	3,965.87	5	3,746.39	5	3,520.57	5	3,176.28	5	2,818.73
1/4		1/4		1/4		1/4	4,398.95	1/4	4,180.51	1/4	3,961.31	1/4	3,741.81	1/4	3,514.83	1/4	3,168.83	1/4	2,811.28
1/2		1/2		1/2		1/2	4,394.43	1/2	4,175.95	1/2	3,956.74	1/2	3,737.23	1/2	3,509.08	1/2	3,161.38	1/2	2,803.83
3/4		3/4		3/4		3/4	4,389.91	3/4	4,171.38	3/4	3,952.17	3/4	3,732.65	3/4	3,502.86	3/4	3,153.93	3/4	2,796.39
6	6	6	6	6	6	6	4,385.38	6	4,166.81	6	3,947.61	6	3,728.07	6	3,496.64	6	3,146.48	6	2,788.94
1/4		1/4		1/4		1/4	4,380.86	1/4	4,162.25	1/4	3,943.04	1/4	3,723.49	1/4	3,490.42	1/4	3,139.04	1/4	2,781.49
1/2		1/2		1/2		1/2	4,376.34	1/2	4,157.68	1/2	3,938.47	1/2	3,718.91	1/2	3,484.20	1/2	3,131.59	1/2	2,774.04
3/4		3/4		3/4		3/4	4,371.82	3/4	4,153.11	3/4	3,933.91	3/4	3,714.34	3/4	3,477.50	3/4	3,124.14	3/4	2,766.59
7	7	7	7	7	7	7	4,367.30	7	4,148.55	7	3,929.34	7	3,709.76	7	3,470.80	7	3,116.69	7	2,759.14
1/4		1/4		1/4		1/4	4,362.77	1/4	4,143.98	1/4	3,924.77	1/4	3,705.18	1/4	3,464.10	1/4	3,109.24	1/4	2,751.69
1/2		1/2		1/2		1/2	4,358.25	1/2	4,139.41	1/2	3,920.21	1/2	3,700.60	1/2	3,457.40	1/2	3,101.79	1/2	2,744.24
3/4		3/4		3/4		3/4	4,353.73	3/4	4,134.85	3/4	3,915.64	3/4	3,696.02	3/4	3,450.22	3/4	3,094.34	3/4	2,736.79
8	8	8	8	8	8	8	4,349.21	8	4,130.28	8	3,911.07	8	3,691.44	8	3,443.04	8	3,086.89	8	2,729.35
1/4		1/4		1/4		1/4	4,344.69	1/4	4,125.71	1/4	3,906.51	1/4	3,686.86	1/4	3,435.86	1/4	3,079.44	1/4	2,721.90
1/2		1/2		1/2		1/2	4,340.17	1/2	4,121.15	1/2	3,901.94	1/2	3,682.28	1/2	3,428.68	1/2	3,071.99	1/2	2,714.45
3/4		3/4		3/4		3/4	4,335.65	3/4	4,116.58	3/4	3,897.37	3/4	3,677.70	3/4	3,421.27	3/4	3,064.55	3/4	2,707.00
9	9	9	9	9	9	9	4,331.13	9	4,112.01	9	3,892.81	9	3,673.12	9	3,413.86	9	3,057.10	9	2,699.55
1/4		1/4		1/4		1/4	4,326.61	1/4	4,107.45	1/4	3,888.24	1/4	3,668.54	1/4	3,406.46	1/4	3,049.65	1/4	2,692.10
1/2		1/2		1/2		1/2	4,322.09	1/2	4,102.88	1/2	3,883.67	1/2	3,663.96	1/2	3,399.05	1/2	3,042.20	1/2	2,684.65
3/4		3/4		3/4		3/4	4,317.52	3/4	4,098.31	3/4	3,879.11	3/4	3,659.38	3/4	3,391.63	3/4	3,034.75	3/4	2,677.20
10	10	10	10	10	10	10	4,312.95	10	4,093.75	10	3,874.54	10	3,654.80	10	3,384.22	10	3,027.30	10	2,669.75
1/4		1/4		1/4		1/4	4,308.38	1/4	4,089.18	1/4	3,869.97	1/4	3,650.22	1/4	3,376.80	1/4	3,019.85	1/4	2,662.31
1/2		1/2		1/2		1/2	4,303.82	1/2	4,084.61	1/2	3,865.41	1/2	3,645.64	1/2	3,369.38	1/2	3,012.40	1/2	2,654.86
3/4		3/4		3/4		3/4	4,299.25	3/4	4,080.04	3/4	3,860.84	3/4	3,641.07	3/4	3,361.96	3/4	3,004.95	3/4	2,647.41
11	11	11	11	11	11	11	4,294.68	11	4,075.48	11	3,856.27	11	3,636.49	11	3,354.54	11	2,997.51	11	2,639.96
1/4		1/4		1/4		1/4	4,290.12	1/4	4,070.91	1/4	3,851.70	1/4	3,631.91	1/4	3,347.12	1/4	2,990.06	1/4	2,632.51
1/2		1/2		1/2		1/2	4,285.55	1/2	4,066.34	1/2	3,847.14	1/2	3,627.33	1/2	3,339.70	1/2	2,982.61	1/2	2,625.06
3/4		3/4		3/4		3/4	4,280.98	3/4	4,061.78	3/4	3,842.56	3/4	3,622.75	3/4	3,332.28	3/4	2,975.16	3/4	2,617.61

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "E2MS 302"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

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	2,610.16	0	2,252.31	0	1,894.27	0	1,536.23	0	1,178.19	0	820.66	0	462.62	0	104.62	0		0	
1/4	2,602.71	1/4	2,244.86	1/4	1,886.81	1/4	1,528.77	1/4	1,170.73	1/4	813.20	1/4	455.17	1/4	97.17	1/4		1/4	
1/2	2,595.26	1/2	2,237.40	1/2	1,879.35	1/2	1,521.31	1/2	1,163.27	1/2	805.74	1/2	447.71	1/2	89.72	1/2		1/2	
3/4	2,587.81	3/4	2,229.94	3/4	1,871.90	3/4	1,513.85	3/4	1,155.82	3/4	798.28	3/4	440.25	3/4	82.30	3/4		3/4	
1	2,580.36	1	2,222.48	1	1,864.44	1	1,506.39	1	1,148.36	1	790.82	1	432.79	1	74.88	1		1	
1/4	2,572.91	1/4	2,215.02	1/4	1,856.98	1/4	1,498.94	1/4	1,140.91	1/4	783.36	1/4	425.33	1/4	67.45	1/4		1/4	
1/2	2,565.46	1/2	2,207.56	1/2	1,849.52	1/2	1,491.48	1/2	1,133.46	1/2	775.90	1/2	417.87	1/2	60.03	1/2		1/2	
3/4	2,558.01	3/4	2,200.10	3/4	1,842.06	3/4	1,484.02	3/4	1,126.00	3/4	768.44	3/4	410.41	3/4	53.51	3/4		3/4	
2	2,550.56	2	2,192.64	2	1,834.60	2	1,476.56	2	1,118.55	2	760.98	2	402.95	2	46.98	2		2	
1/4	2,543.11	1/4	2,185.18	1/4	1,827.14	1/4	1,469.10	1/4	1,111.09	1/4	753.53	1/4	395.49	1/4	40.46	1/4		1/4	
1/2	2,535.65	1/2	2,177.72	1/2	1,819.68	1/2	1,461.64	1/2	1,103.64	1/2	746.07	1/2	388.03	1/2	33.93	1/2		1/2	
3/4	2,528.20	3/4	2,170.26	3/4	1,812.22	3/4	1,454.18	3/4	1,096.20	3/4	738.61	3/4	380.58	3/4	29.27	3/4		3/4	
3	2,520.75	3	2,162.80	3	1,804.76	3	1,446.72	3	1,088.75	3	731.15	3	373.12	3	24.61	3		3	
1/4	2,513.30	1/4	2,155.34	1/4	1,797.30	1/4	1,439.26	1/4	1,081.31	1/4	723.69	1/4	365.66	1/4	19.95	1/4		1/4	
1/2	2,505.85	1/2	2,147.89	1/2	1,789.84	1/2	1,431.80	1/2	1,073.86	1/2	716.23	1/2	358.20	1/2	15.28	1/2		1/2	
3/4	2,498.40	3/4	2,140.43	3/4	1,782.38	3/4	1,424.34	3/4	1,066.42	3/4	708.77	3/4	350.74	3/4		3/4		3/4	
4	2,490.95	4	2,132.97	4	1,774.93	4	1,416.88	4	1,058.97	4	701.31	4	343.28	4		4		4	
1/4	2,483.50	1/4	2,125.51	1/4	1,767.47	1/4	1,409.42	1/4	1,051.53	1/4	693.85	1/4	335.82	1/4		1/4		1/4	
1/2	2,476.05	1/2	2,118.05	1/2	1,760.01	1/2	1,401.97	1/2	1,044.08	1/2	686.39	1/2	328.36	1/2		1/2		1/2	
3/4	2,468.60	3/4	2,110.59	3/4	1,752.55	3/4	1,394.51	3/4	1,036.64	3/4	678.94	3/4	320.90	3/4		3/4		3/4	
5	2,461.15	5	2,103.13	5	1,745.09	5	1,387.05	5	1,029.19	5	671.48	5	313.44	5		5		5	
1/4	2,453.70	1/4	2,095.67	1/4	1,737.63	1/4	1,379.59	1/4	1,021.75	1/4	664.02	1/4	305.99	1/4		1/4		1/4	
1/2	2,446.25	1/2	2,088.21	1/2	1,730.17	1/2	1,372.13	1/2	1,014.30	1/2	656.56	1/2	298.53	1/2		1/2		1/2	
3/4	2,438.79	3/4	2,080.75	3/4	1,722.71	3/4	1,364.67	3/4	1,006.86	3/4	649.10	3/4	291.07	3/4		3/4		3/4	
6	2,431.34	6	2,073.29	6	1,715.25	6	1,357.21	6	999.42	6	641.64	6	283.61	6		6		6	
1/4	2,423.88	1/4	2,065.83	1/4	1,707.79	1/4	1,349.75	1/4	991.97	1/4	634.18	1/4	276.15	1/4		1/4		1/4	
1/2	2,416.42	1/2	2,058.38	1/2	1,700.33	1/2	1,342.29	1/2	984.53	1/2	626.72	1/2	268.69	1/2		1/2		1/2	
3/4	2,408.96	3/4	2,050.92	3/4	1,692.87	3/4	1,334.83	3/4	977.08	3/4	619.26	3/4	261.23	3/4		3/4		3/4	
7	2,401.50	7	2,043.46	7	1,685.42	7	1,327.37	7	969.64	7	611.80	7	253.77	7		7		7	
1/4	2,394.04	1/4	2,036.00	1/4	1,677.96	1/4	1,319.91	1/4	962.19	1/4	604.35	1/4	246.31	1/4		1/4		1/4	
1/2	2,386.58	1/2	2,028.54	1/2	1,670.50	1/2	1,312.46	1/2	954.75	1/2	596.89	1/2	238.85	1/2		1/2		1/2	
3/4	2,379.12	3/4	2,021.08	3/4	1,663.04	3/4	1,305.00	3/4	947.30	3/4	589.43	3/4	231.40	3/4		3/4		3/4	
8	2,371.66	8	2,013.62	8	1,655.58	8	1,297.54	8	939.86	8	581.97	8	223.94	8		8		8	
1/4	2,364.20	1/4	2,006.16	1/4	1,648.12	1/4	1,290.08	1/4	932.41	1/4	574.51	1/4	216.48	1/4		1/4		1/4	
1/2	2,356.74	1/2	1,998.70	1/2	1,640.66	1/2	1,282.62	1/2	924.97	1/2	567.05	1/2	209.02	1/2		1/2		1/2	
3/4	2,349.28	3/4	1,991.24	3/4	1,633.20	3/4	1,275.16	3/4	917.52	3/4	559.59	3/4	201.56	3/4		3/4		3/4	
9	2,341.82	9	1,983.78	9	1,625.74	9	1,267.70	9	910.08	9	552.13	9	194.10	9		9		9	
1/4	2,334.37	1/4	1,976.32	1/4	1,618.28	1/4	1,260.24	1/4	902.63	1/4	544.67	1/4	186.64	1/4		1/4		1/4	
1/2	2,326.91	1/2	1,968.86	1/2	1,610.82	1/2	1,252.78	1/2	895.19	1/2	537.21	1/2	179.18	1/2		1/2		1/2	
3/4	2,319.45	3/4	1,961.41	3/4	1,603.36	3/4	1,245.32	3/4	887.74	3/4	529.76	3/4	171.72	3/4		3/4		3/4	
10	2,311.99	10	1,953.95	10	1,595.90	10	1,237.86	10	880.30	10	522.30	10	164.26	10		10		10	
1/4	2,304.53	1/4	1,946.49	1/4	1,588.45	1/4	1,230.40	1/4	872.86	1/4	514.84	1/4	156.81	1/4		1/4		1/4	
1/2	2,297.07	1/2	1,939.03	1/2	1,580.99	1/2	1,222.94	1/2	865.41	1/2	507.38	1/2	149.35	1/2		1/2		1/2	
3/4	2,289.61	3/4	1,931.57	3/4	1,573.53	3/4	1,215.49	3/4	857.95	3/4	499.92	3/4	141.89	3/4		3/4		3/4	
11	2,282.15	11	1,924.11	11	1,566.07	11	1,208.03	11	850.49	11	492.46	11	134.43	11		11		11	
1/4	2,274.69	1/4	1,916.65	1/4	1,558.61	1/4	1,200.57	1/4	843.03	1/4	485.00	1/4	126.97	1/4		1/4		1/4	
1/2	2,267.23	1/2	1,909.19	1/2	1,551.15	1/2	1,193.11	1/2	835.57	1/2	477.54	1/2	119.52	1/2		1/2		1/2	
3/4	2,259.77	3/4	1,901.73	3/4	1,543.69	3/4	1,185.65	3/4	828.12	3/4	470.08	3/4	112.07	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/27/2013 SW
CALCULATED : 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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



BARGE "E2MS 302"

SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4	2,503	1/4	2,064	1/4	1,474	1/4	855	1/4	292	1/4		1/4		1/4		1/4	
1/2		1/2	2,497	1/2	2,052	1/2	1,461	1/2	842	1/2	281	1/2		1/2		1/2		1/2	
3/4		3/4	2,492	3/4	2,041	3/4	1,448	3/4	830	3/4	271	3/4		3/4		3/4		3/4	
1	1	1	2,487	1	2,029	1	1,435	1	817	1	261	1	1	1	1	1	1	1	1
1/4		1/4	2,480	1/4	2,018	1/4	1,422	1/4	805	1/4	251	1/4		1/4		1/4		1/4	
1/2		1/2	2,473	1/2	2,006	1/2	1,409	1/2	792	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	2,467	3/4	1,995	3/4	1,397	3/4	779	3/4	231	3/4		3/4		3/4		3/4	
2	2	2	2,460	2	1,983	2	1,384	2	767	2	221	2	2	2	2	2	2	2	2
1/4		1/4	2,452	1/4	1,971	1/4	1,371	1/4	755	1/4	211	1/4		1/4		1/4		1/4	
1/2		1/2	2,445	1/2	1,959	1/2	1,358	1/2	742	1/2	202	1/2		1/2		1/2		1/2	
3/4		3/4	2,437	3/4	1,948	3/4	1,345	3/4	730	3/4	192	3/4		3/4		3/4		3/4	
3	3	3	2,430	3	1,936	3	1,332	3	717	3	182	3	3	3	3	3	3	3	3
1/4		1/4	2,422	1/4	1,924	1/4	1,319	1/4	705	1/4	173	1/4		1/4		1/4		1/4	
1/2		1/2	2,413	1/2	1,912	1/2	1,306	1/2	693	1/2	164	1/2		1/2		1/2		1/2	
3/4		3/4	2,405	3/4	1,900	3/4	1,293	3/4	681	3/4	155	3/4		3/4		3/4		3/4	
4	4	4	2,397	4	1,888	4	1,280	4	668	4	146	4	4	4	4	4	4	4	4
1/4		1/4	2,388	1/4	1,876	1/4	1,267	1/4	656	1/4	137	1/4		1/4		1/4		1/4	
1/2		1/2	2,380	1/2	1,864	1/2	1,254	1/2	644	1/2	128	1/2		1/2		1/2		1/2	
3/4		3/4	2,371	3/4	1,852	3/4	1,241	3/4	632	3/4	119	3/4		3/4		3/4		3/4	
5	5	5	2,362	5	1,839	5	1,228	5	620	5	111	5	5	5	5	5	5	5	5
1/4		1/4	2,353	1/4	1,827	1/4	1,215	1/4	608	1/4	102	1/4		1/4		1/4		1/4	
1/2		1/2	2,344	1/2	1,815	1/2	1,202	1/2	596	1/2	94	1/2		1/2		1/2		1/2	
3/4		3/4	2,335	3/4	1,803	3/4	1,189	3/4	584	3/4	86	3/4		3/4		3/4		3/4	
6	6	6	2,325	6	1,790	6	1,176	6	572	6	78	6	6	6	6	6	6	6	6
1/4		1/4	2,316	1/4	1,778	1/4	1,163	1/4	560	1/4	70	1/4		1/4		1/4		1/4	
1/2		1/2	2,306	1/2	1,766	1/2	1,150	1/2	548	1/2	63	1/2		1/2		1/2		1/2	
3/4		3/4	2,297	3/4	1,753	3/4	1,137	3/4	537	3/4	55	3/4		3/4		3/4		3/4	
7	7	7	2,287	7	1,741	7	1,124	7	525	7	48	7	7	7	7	7	7	7	7
1/4		1/4	2,277	1/4	1,728	1/4	1,111	1/4	513	1/4	41	1/4		1/4		1/4		1/4	
1/2		1/2	2,267	1/2	1,716	1/2	1,098	1/2	502	1/2	35	1/2		1/2		1/2		1/2	
3/4		3/4	2,257	3/4	1,703	3/4	1,085	3/4	490	3/4	28	3/4		3/4		3/4		3/4	
8	8	8	2,247	8	1,691	8	1,072	8	478	8	21	8	8	8	8	8	8	8	8
1/4		1/4	2,237	1/4	1,678	1/4	1,059	1/4	467	1/4	16	1/4		1/4		1/4		1/4	
1/2		1/2	2,226	1/2	1,665	1/2	1,047	1/2	456	1/2	10	1/2		1/2		1/2		1/2	
3/4		3/4	2,216	3/4	1,653	3/4	1,034	3/4	444	3/4	5	3/4		3/4		3/4		3/4	
9	9	9	2,206	9	1,640	9	1,021	9	433	9	0	9	9	9	9	9	9	9	9
1/4		1/4	2,195	1/4	1,628	1/4	1,008	1/4	422	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	2,184	1/2	1,615	1/2	995	1/2	410	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	2,174	3/4	1,602	3/4	982	3/4	399	3/4		3/4		3/4		3/4		3/4	
10	10	10	2,163	10	1,589	10	969	10	388	10	10	10	10	10	10	10	10	10	10
1/4		1/4	2,152	1/4	1,577	1/4	957	1/4	377	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	2,141	1/2	1,564	1/2	944	1/2	366	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	2,130	3/4	1,551	3/4	931	3/4	355	3/4		3/4		3/4		3/4		3/4	
11	11	11	2,120	11	1,538	11	918	11	345	11	11	11	11	11	11	11	11	11	11
1/4		1/4	2,108	1/4	1,525	1/4	906	1/4	334	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	2,097	1/2	1,513	1/2	893	1/2	323	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	2,086	3/4	1,500	3/4	880	3/4	313	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 2 1/2" DIAMETER STANDPIPE.

STRAPPED: 08/27/2013 SW
CALCULATED: 08/28/2013 CL
PRINTED: 08/28/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2013

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