



BARGE: E2MS 104
INNAGE TRIM TABLE

	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 CENTER	00-1/4	-00-1/4	00-1/2	-00-1/2	00-3/4	-00-3/4	01-0/8	-01-0/8	01-1/4	-01-1/4	01-1/2	-01-1/2
2 CENTER	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-1/4	00-1/4
3 CENTER	00-1/4	-00-1/4	00-3/8	-00-3/8	00-5/8	-00-5/8	00-3/4	-00-3/4	01-0/8	-01-0/8	01-1/8	-01-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

LENGTH BETWEEN DRAFT MARKS: 163'-09"

July 10, 2019

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS -00-1/2"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2"



BARGE "E2MS 104"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	4.08	0	221.38	0	470.02	0	715.25	0	960.21	0	1,208.09	0	1,455.97	0	1,703.75	0	1,951.03	0	2,198.97
1/4	4.94	1/4	226.56	1/4	475.20	1/4	720.26	1/4	965.37	1/4	1,213.26	1/4	1,461.14	1/4	1,708.90	1/4	1,956.19	1/4	2,204.14
1/2	5.80	1/2	231.74	1/2	480.38	1/2	725.27	1/2	970.54	1/2	1,218.42	1/2	1,466.30	1/2	1,714.05	1/2	1,961.36	1/2	2,209.31
3/4	6.66	3/4	236.92	3/4	485.56	3/4	730.28	3/4	975.70	3/4	1,223.58	3/4	1,471.47	3/4	1,719.20	3/4	1,966.52	3/4	2,214.47
1	7.53	1	242.10	1	490.74	1	735.29	1	980.87	1	1,228.75	1	1,476.63	1	1,724.35	1	1,971.69	1	2,219.64
1 1/4	10.11	1 1/4	247.28	1 1/4	495.92	1 1/4	740.30	1 1/4	986.03	1 1/4	1,233.91	1 1/4	1,481.79	1 1/4	1,729.50	1 1/4	1,976.85	1 1/4	2,224.80
1 1/2	12.70	1 1/2	252.46	1 1/2	501.10	1 1/2	745.30	1 1/2	991.19	1 1/2	1,239.08	1 1/2	1,486.96	1 1/2	1,734.65	1 1/2	1,982.02	1 1/2	2,229.97
3 1/4	15.29	3 1/4	257.64	3 1/4	506.28	3 1/4	750.31	3 1/4	996.36	3 1/4	1,244.24	3 1/4	1,492.12	3 1/4	1,739.79	3 1/4	1,987.19	3 1/4	2,235.13
2	17.88	2	262.82	2	511.46	2	755.32	2	1,001.52	2	1,249.40	2	1,497.29	2	1,744.94	2	1,992.35	2	2,240.30
1 1/4	22.20	1 1/4	268.00	1 1/4	516.64	1 1/4	760.33	1 1/4	1,006.69	1 1/4	1,254.57	1 1/4	1,502.45	1 1/4	1,750.09	1 1/4	1,997.52	1 1/4	2,245.47
1 1/2	26.51	1 1/2	273.18	1 1/2	521.82	1 1/2	765.34	1 1/2	1,011.85	1 1/2	1,259.73	1 1/2	1,507.61	1 1/2	1,755.24	1 1/2	2,002.68	1 1/2	2,250.63
3 1/4	30.82	3 1/4	278.36	3 1/4	527.00	3 1/4	770.34	3 1/4	1,017.02	3 1/4	1,264.90	3 1/4	1,512.77	3 1/4	1,760.39	3 1/4	2,007.85	3 1/4	2,255.80
3	35.14	3	283.54	3	532.17	3	775.35	3	1,022.18	3	1,270.06	3	1,517.93	3	1,765.54	3	2,013.01	3	2,260.96
1 1/4	40.27	1 1/4	288.72	1 1/4	537.35	1 1/4	780.38	1 1/4	1,027.34	1 1/4	1,275.23	1 1/4	1,523.09	1 1/4	1,770.69	1 1/4	2,018.18	1 1/4	2,266.13
1 1/2	45.41	1 1/2	293.90	1 1/2	542.53	1 1/2	785.41	1 1/2	1,032.51	1 1/2	1,280.39	1 1/2	1,528.25	1 1/2	1,775.84	1 1/2	2,023.34	1 1/2	2,271.29
3 1/4	50.54	3 1/4	299.08	3 1/4	547.71	3 1/4	790.44	3 1/4	1,037.67	3 1/4	1,285.55	3 1/4	1,533.41	3 1/4	1,780.98	3 1/4	2,028.51	3 1/4	2,276.46
4	55.68	4	304.26	4	552.89	4	795.48	4	1,042.84	4	1,290.72	4	1,538.57	4	1,786.13	4	2,033.68	4	2,281.62
1 1/4	60.85	1 1/4	309.44	1 1/4	558.07	1 1/4	800.51	1 1/4	1,048.00	1 1/4	1,295.88	1 1/4	1,543.73	1 1/4	1,791.28	1 1/4	2,038.84	1 1/4	2,286.79
1 1/2	66.01	1 1/2	314.62	1 1/2	563.25	1 1/2	805.54	1 1/2	1,053.17	1 1/2	1,301.05	1 1/2	1,548.89	1 1/2	1,796.43	1 1/2	2,044.01	1 1/2	2,291.96
3 1/4	71.18	3 1/4	319.80	3 1/4	568.43	3 1/4	810.58	3 1/4	1,058.33	3 1/4	1,306.21	3 1/4	1,554.05	3 1/4	1,801.58	3 1/4	2,049.17	3 1/4	2,297.12
5	76.35	5	324.98	5	573.61	5	815.61	5	1,063.49	5	1,311.38	5	1,559.21	5	1,806.73	5	2,054.34	5	2,302.29
1 1/4	81.53	1 1/4	330.16	1 1/4	578.79	1 1/4	820.78	1 1/4	1,068.66	1 1/4	1,316.54	1 1/4	1,564.37	1 1/4	1,811.88	1 1/4	2,059.50	1 1/4	2,307.45
1 1/2	86.70	1 1/2	335.34	1 1/2	583.96	1 1/2	825.94	1 1/2	1,073.82	1 1/2	1,321.70	1 1/2	1,569.53	1 1/2	1,817.02	1 1/2	2,064.67	1 1/2	2,312.62
3 1/4	91.88	3 1/4	340.52	3 1/4	589.13	3 1/4	831.10	3 1/4	1,078.99	3 1/4	1,326.87	3 1/4	1,574.70	3 1/4	1,822.17	3 1/4	2,069.83	3 1/4	2,317.78
6	97.06	6	345.70	6	594.30	6	836.27	6	1,084.15	6	1,332.03	6	1,579.86	6	1,827.32	6	2,075.00	6	2,322.95
1 1/4	102.24	1 1/4	350.88	1 1/4	599.47	1 1/4	841.43	1 1/4	1,089.31	1 1/4	1,337.20	1 1/4	1,585.02	1 1/4	1,832.47	1 1/4	2,080.17	1 1/4	2,328.11
1 1/2	107.42	1 1/2	356.06	1 1/2	604.64	1 1/2	846.60	1 1/2	1,094.48	1 1/2	1,342.36	1 1/2	1,590.18	1 1/2	1,837.62	1 1/2	2,085.33	1 1/2	2,333.28
3 1/4	112.60	3 1/4	361.24	3 1/4	609.81	3 1/4	851.76	3 1/4	1,099.64	3 1/4	1,347.52	3 1/4	1,595.34	3 1/4	1,842.77	3 1/4	2,090.50	3 1/4	2,338.45
7	117.78	7	366.42	7	614.99	7	856.93	7	1,104.81	7	1,352.69	7	1,600.50	7	1,847.92	7	2,095.66	7	2,343.61
1 1/4	122.96	1 1/4	371.60	1 1/4	620.01	1 1/4	862.09	1 1/4	1,109.97	1 1/4	1,357.85	1 1/4	1,605.66	1 1/4	1,853.07	1 1/4	2,100.83	1 1/4	2,348.77
1 1/2	128.14	1 1/2	376.78	1 1/2	625.03	1 1/2	867.25	1 1/2	1,115.14	1 1/2	1,363.02	1 1/2	1,610.82	1 1/2	1,858.21	1 1/2	2,105.99	1 1/2	2,353.93
3 1/4	133.32	3 1/4	381.96	3 1/4	630.06	3 1/4	872.42	3 1/4	1,120.30	3 1/4	1,368.18	3 1/4	1,615.98	3 1/4	1,863.36	3 1/4	2,111.16	3 1/4	2,359.09
8	138.50	8	387.14	8	635.08	8	877.58	8	1,125.46	8	1,373.35	8	1,621.14	8	1,868.51	8	2,116.33	8	2,364.25
1 1/4	143.68	1 1/4	392.32	1 1/4	640.10	1 1/4	882.75	1 1/4	1,130.63	1 1/4	1,378.51	1 1/4	1,626.30	1 1/4	1,873.66	1 1/4	2,121.49	1 1/4	2,369.41
1 1/2	148.86	1 1/2	397.50	1 1/2	645.12	1 1/2	887.91	1 1/2	1,135.79	1 1/2	1,383.67	1 1/2	1,631.47	1 1/2	1,878.81	1 1/2	2,126.66	1 1/2	2,374.57
3 1/4	154.04	3 1/4	402.68	3 1/4	650.14	3 1/4	893.07	3 1/4	1,140.96	3 1/4	1,388.84	3 1/4	1,636.63	3 1/4	1,883.96	3 1/4	2,131.82	3 1/4	2,379.74
9	159.22	9	407.86	9	655.16	9	898.24	9	1,146.12	9	1,394.00	9	1,641.79	9	1,889.11	9	2,136.99	9	2,384.90
1 1/4	164.40	1 1/4	413.04	1 1/4	660.17	1 1/4	903.40	1 1/4	1,151.28	1 1/4	1,399.17	1 1/4	1,646.95	1 1/4	1,894.26	1 1/4	2,142.15	1 1/4	2,390.06
1 1/2	169.58	1 1/2	418.22	1 1/2	665.17	1 1/2	908.57	1 1/2	1,156.45	1 1/2	1,404.33	1 1/2	1,652.12	1 1/2	1,899.40	1 1/2	2,147.32	1 1/2	2,395.22
3 1/4	174.76	3 1/4	423.40	3 1/4	670.18	3 1/4	913.73	3 1/4	1,161.61	3 1/4	1,409.49	3 1/4	1,657.28	3 1/4	1,904.55	3 1/4	2,152.48	3 1/4	2,400.38
10	179.94	10	428.58	10	675.19	10	918.90	10	1,166.78	10	1,414.66	10	1,662.45	10	1,909.70	10	2,157.65	10	2,405.54
1 1/4	185.12	1 1/4	433.76	1 1/4	680.20	1 1/4	924.06	1 1/4	1,171.94	1 1/4	1,419.82	1 1/4	1,667.61	1 1/4	1,914.87	1 1/4	2,162.82	1 1/4	2,410.70
1 1/2	190.30	1 1/2	438.94	1 1/2	685.21	1 1/2	929.22	1 1/2	1,177.11	1 1/2	1,424.99	1 1/2	1,672.77	1 1/2	1,920.03	1 1/2	2,167.98	1 1/2	2,415.86
3 1/4	195.48	3 1/4	444.12	3 1/4	690.21	3 1/4	934.39	3 1/4	1,182.27	3 1/4	1,430.15	3 1/4	1,677.94	3 1/4	1,925.20	3 1/4	2,173.15	3 1/4	2,421.02
11	200.66	11	449.30	11	695.22	11	939.55	11	1,187.43	11	1,435.32	11	1,683.10	11	1,930.36	11	2,178.31	11	2,426.18
1 1/4	205.84	1 1/4	454.48	1 1/4	700.23	1 1/4	944.72	1 1/4	1,192.60	1 1/4	1,440.48	1 1/4	1,688.26	1 1/4	1,935.53	1 1/4	2,183.48	1 1/4	2,431.34
1 1/2	211.02	1 1/2	459.66	1 1/2	705.24	1 1/2	949.88	1 1/2	1,197.76	1 1/2	1,445.64	1 1/2	1,693.43	1 1/2	1,940.69	1 1/2	2,188.64	1 1/2	2,436.50
3 1/4	216.20	3 1/4	464.84	3 1/4	710.25	3 1/4	955.05	3 1/4	1,202.93	3 1/4	1,450.81	3 1/4	1,698.59	3 1/4	1,945.86	3 1/4	2,193.81	3 1/4	2,441.66

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPIMS 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 TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2082
 Pearland, Texas 77588
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BARGE "E2MS 104"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,446.82	0	2,675.76	0	2,887.29	0	3,098.82	0	3,310.34	0		0		0		0		0	
1/4	2,451.98	1/4	2,680.17	1/4	2,891.70	1/4	3,103.22	1/4	3,314.75	1/4		1/4		1/4		1/4		1/4	
1/2	2,457.14	1/2	2,684.58	1/2	2,896.10	1/2	3,107.63	1/2	3,319.16	1/2		1/2		1/2		1/2		1/2	
3/4	2,462.30	3/4	2,688.98	3/4	2,900.51	3/4	3,112.04	3/4	3,323.56	3/4		3/4		3/4		3/4		3/4	
1	2,467.46	1	2,693.39	1	2,904.92	1	3,116.44	1	3,327.97	1		1		1		1		1	
1 1/4	2,472.62	1 1/4	2,697.80	1 1/4	2,909.32	1 1/4	3,120.85	1 1/4	3,332.38	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,477.78	1 1/2	2,702.20	1 1/2	2,913.73	1 1/2	3,125.26	1 1/2	3,336.78	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
1 3/4	2,482.95	1 3/4	2,706.61	1 3/4	2,918.14	1 3/4	3,129.66	1 3/4	3,341.19	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4	
2	2,488.11	2	2,711.02	2	2,922.54	2	3,134.07	2	3,345.60	2		2		2		2		2	
2 1/4	2,493.27	2 1/4	2,715.42	2 1/4	2,926.95	2 1/4	3,138.48	2 1/4	3,350.01	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	2,498.43	2 1/2	2,719.83	2 1/2	2,931.36	2 1/2	3,142.88	2 1/2	3,354.42	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	2,503.59	2 3/4	2,724.24	2 3/4	2,935.76	2 3/4	3,147.29	2 3/4	3,358.83	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4	
3	2,508.75	3	2,728.64	3	2,940.17	3	3,151.70	3	3,363.24	3		3		3		3		3	
3 1/4	2,513.91	3 1/4	2,733.05	3 1/4	2,944.58	3 1/4	3,156.10	3 1/4	3,367.63	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	2,519.07	3 1/2	2,737.46	3 1/2	2,948.99	3 1/2	3,160.51	3 1/2	3,372.03	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	2,524.23	3 3/4	2,741.87	3 3/4	2,953.39	3 3/4	3,164.92	3 3/4	3,376.42	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4	
4	2,529.39	4	2,746.27	4	2,957.80	4	3,169.33	4	3,380.81	4		4		4		4		4	
4 1/4	2,534.53	4 1/4	2,750.68	4 1/4	2,962.21	4 1/4	3,173.74	4 1/4	3,385.18	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	2,539.68	4 1/2	2,755.09	4 1/2	2,966.61	4 1/2	3,178.14	4 1/2	3,389.54	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	2,544.83	4 3/4	2,759.49	4 3/4	2,971.02	4 3/4	3,182.55	4 3/4	3,393.90	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4	
5	2,549.97	5	2,763.90	5	2,975.43	5	3,186.95	5	3,398.26	5		5		5		5		5	
5 1/4	2,555.12	5 1/4	2,768.31	5 1/4	2,979.83	5 1/4	3,191.36	5 1/4	3,402.58	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	2,560.26	5 1/2	2,772.71	5 1/2	2,984.24	5 1/2	3,195.77	5 1/2	3,406.89	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	2,565.41	5 3/4	2,777.12	5 3/4	2,988.65	5 3/4	3,200.17	5 3/4	3,411.21	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4	
6	2,570.55	6	2,781.53	6	2,993.05	6	3,204.58	6	3,415.52	6		6		6		6		6	
6 1/4	2,575.69	6 1/4	2,785.93	6 1/4	2,997.46	6 1/4	3,208.99	6 1/4	3,419.81	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	2,579.30	6 1/2	2,790.34	6 1/2	3,001.87	6 1/2	3,213.39	6 1/2	3,424.07	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	2,583.67	6 3/4	2,794.75	6 3/4	3,006.27	6 3/4	3,217.80	6 3/4	3,428.29	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4	
7	2,588.04	7	2,799.15	7	3,010.68	7	3,222.21	7	3,432.58	7		7		7		7		7	
7 1/4	2,592.41	7 1/4	2,803.56	7 1/4	3,015.09	7 1/4	3,226.61	7 1/4	3,436.74	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	2,596.78	7 1/2	2,807.97	7 1/2	3,019.49	7 1/2	3,231.02	7 1/2	3,440.89	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	2,601.15	7 3/4	2,812.37	7 3/4	3,023.90	7 3/4	3,235.43	7 3/4	3,445.06	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4	
8	2,605.53	8	2,816.78	8	3,028.31	8	3,239.83	8	3,449.33	8		8		8		8		8	
8 1/4	2,609.90	8 1/4	2,821.19	8 1/4	3,032.71	8 1/4	3,244.24	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	2,614.27	8 1/2	2,825.59	8 1/2	3,037.12	8 1/2	3,248.65	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	2,618.65	8 3/4	2,830.00	8 3/4	3,041.53	8 3/4	3,253.05	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	2,623.02	9	2,834.41	9	3,045.93	9	3,257.46	9		9		9		9		9		9	
9 1/4	2,627.39	9 1/4	2,838.81	9 1/4	3,050.34	9 1/4	3,261.87	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	2,631.76	9 1/2	2,843.22	9 1/2	3,054.75	9 1/2	3,266.27	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	2,636.14	9 3/4	2,847.63	9 3/4	3,059.16	9 3/4	3,270.68	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	2,640.51	10	2,852.04	10	3,063.56	10	3,275.09	10		10		10		10		10		10	
10 1/4	2,644.92	10 1/4	2,856.44	10 1/4	3,067.97	10 1/4	3,279.50	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	2,649.32	10 1/2	2,860.85	10 1/2	3,072.38	10 1/2	3,283.90	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	2,653.73	10 3/4	2,865.26	10 3/4	3,076.78	10 3/4	3,288.31	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	2,658.14	11	2,869.66	11	3,081.19	11	3,292.72	11		11		11		11		11		11	
11 1/4	2,662.54	11 1/4	2,874.07	11 1/4	3,085.60	11 1/4	3,297.12	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	2,666.95	11 1/2	2,878.48	11 1/2	3,090.00	11 1/2	3,301.53	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	2,671.36	11 3/4	2,882.88	11 3/4	3,094.41	11 3/4	3,305.94	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "E2MS 104"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	0.73	0	239.76	0	513.27	0	783.36	0	1,053.46	0	1,326.98	0	1,600.49	0	1,874.00	0	2,147.52	0	2,421.03
1/4	1.68	1/4	245.46	1/4	518.96	1/4	788.89	1/4	1,059.16	1/4	1,332.68	1/4	1,606.19	1/4	1,879.70	1/4	2,153.22	1/4	2,426.73
1/2	2.62	1/2	251.16	1/2	524.66	1/2	794.42	1/2	1,064.86	1/2	1,338.37	1/2	1,611.89	1/2	1,885.40	1/2	2,158.91	1/2	2,432.43
3/4	3.57	3/4	256.86	3/4	530.36	3/4	799.94	3/4	1,070.56	3/4	1,344.07	3/4	1,617.59	3/4	1,891.10	3/4	2,164.61	3/4	2,438.13
1	4.52	1	262.55	1	536.06	1	805.47	1	1,076.26	1	1,349.77	1	1,623.28	1	1,896.80	1	2,170.31	1	2,443.82
1/4	7.37	1/4	268.25	1/4	541.76	1/4	811.00	1/4	1,081.95	1/4	1,355.47	1/4	1,628.98	1/4	1,902.50	1/4	2,176.01	1/4	2,449.52
1/2	10.22	1/2	273.95	1/2	547.45	1/2	816.52	1/2	1,087.65	1/2	1,361.17	1/2	1,634.88	1/2	1,908.19	1/2	2,181.71	1/2	2,455.22
3/4	13.07	3/4	279.65	3/4	553.15	3/4	822.05	3/4	1,093.35	3/4	1,366.66	3/4	1,640.38	3/4	1,913.89	3/4	2,187.41	3/4	2,460.92
2	15.91	2	285.36	2	558.85	2	827.58	2	1,099.05	2	1,372.56	2	1,646.08	2	1,919.59	2	2,193.10	2	2,466.62
1/4	20.66	1/4	291.04	1/4	564.55	1/4	833.10	1/4	1,104.75	1/4	1,378.26	1/4	1,651.77	1/4	1,925.29	1/4	2,198.80	1/4	2,472.32
1/2	25.41	1/2	296.74	1/2	570.25	1/2	838.63	1/2	1,110.45	1/2	1,383.96	1/2	1,657.47	1/2	1,930.99	1/2	2,204.50	1/2	2,478.01
3/4	30.15	3/4	302.44	3/4	575.94	3/4	844.16	3/4	1,116.14	3/4	1,389.66	3/4	1,663.17	3/4	1,936.68	3/4	2,210.20	3/4	2,483.71
3	34.90	3	308.14	3	581.64	3	849.68	3	1,121.84	3	1,395.36	3	1,668.87	3	1,942.38	3	2,215.90	3	2,489.41
1/4	40.55	1/4	313.84	1/4	587.34	1/4	855.21	1/4	1,127.54	1/4	1,401.05	1/4	1,674.57	1/4	1,948.08	1/4	2,221.59	1/4	2,495.11
1/2	46.19	1/2	319.53	1/2	593.04	1/2	860.74	1/2	1,133.24	1/2	1,406.75	1/2	1,680.27	1/2	1,953.78	1/2	2,227.29	1/2	2,500.81
3/4	51.84	3/4	325.23	3/4	598.74	3/4	866.26	3/4	1,138.94	3/4	1,412.45	3/4	1,685.96	3/4	1,959.48	3/4	2,232.99	3/4	2,506.50
4	57.49	4	330.93	4	604.43	4	871.79	4	1,144.83	4	1,418.15	4	1,691.66	4	1,965.18	4	2,238.69	4	2,512.20
1/4	63.17	1/4	336.63	1/4	610.13	1/4	877.32	1/4	1,150.33	1/4	1,423.85	1/4	1,697.36	1/4	1,970.87	1/4	2,244.39	1/4	2,517.90
1/2	68.86	1/2	342.33	1/2	616.83	1/2	882.85	1/2	1,156.03	1/2	1,429.54	1/2	1,703.06	1/2	1,976.57	1/2	2,250.09	1/2	2,523.60
3/4	74.54	3/4	348.02	3/4	621.53	3/4	888.38	3/4	1,161.73	3/4	1,435.24	3/4	1,708.76	3/4	1,982.27	3/4	2,255.78	3/4	2,529.30
5	80.23	5	353.72	5	627.23	5	893.91	5	1,167.43	5	1,440.94	5	1,714.45	5	1,987.97	5	2,261.48	5	2,535.00
1/4	85.92	1/4	359.42	1/4	632.92	1/4	899.61	1/4	1,173.13	1/4	1,446.64	1/4	1,720.15	1/4	1,993.67	1/4	2,267.18	1/4	2,540.69
1/2	91.62	1/2	365.12	1/2	638.62	1/2	905.31	1/2	1,178.82	1/2	1,452.34	1/2	1,725.85	1/2	1,999.36	1/2	2,272.88	1/2	2,546.39
3/4	97.31	3/4	370.82	3/4	644.32	3/4	911.01	3/4	1,184.52	3/4	1,458.04	3/4	1,731.55	3/4	2,005.06	3/4	2,278.58	3/4	2,552.09
6	103.01	6	376.51	6	650.02	6	916.71	6	1,190.22	6	1,463.73	6	1,737.25	6	2,010.76	6	2,284.27	6	2,557.79
1/4	108.71	1/4	382.21	1/4	655.72	1/4	922.40	1/4	1,195.92	1/4	1,469.43	1/4	1,742.95	1/4	2,016.46	1/4	2,289.97	1/4	2,563.49
1/2	114.41	1/2	387.91	1/2	661.41	1/2	928.10	1/2	1,201.62	1/2	1,475.13	1/2	1,748.64	1/2	2,022.16	1/2	2,295.67	1/2	2,569.18
3/4	120.10	3/4	393.61	3/4	667.11	3/4	933.80	3/4	1,207.32	3/4	1,480.83	3/4	1,754.34	3/4	2,027.86	3/4	2,301.37	3/4	2,574.88
7	125.80	7	399.31	7	672.81	7	939.50	7	1,213.01	7	1,486.53	7	1,760.04	7	2,033.55	7	2,307.07	7	2,580.58
1/4	131.50	1/4	405.00	1/4	678.34	1/4	945.20	1/4	1,218.71	1/4	1,492.23	1/4	1,765.74	1/4	2,039.25	1/4	2,312.77	1/4	2,586.28
1/2	137.20	1/2	410.70	1/2	683.87	1/2	950.90	1/2	1,224.41	1/2	1,497.92	1/2	1,771.44	1/2	2,044.95	1/2	2,318.46	1/2	2,591.98
3/4	142.90	3/4	416.40	3/4	689.40	3/4	956.59	3/4	1,230.11	3/4	1,503.62	3/4	1,777.14	3/4	2,050.65	3/4	2,324.16	3/4	2,597.68
8	148.59	8	422.10	8	694.94	8	962.29	8	1,235.81	8	1,509.32	8	1,782.83	8	2,056.35	8	2,329.86	8	2,603.37
1/4	154.29	1/4	427.80	1/4	700.46	1/4	967.99	1/4	1,241.50	1/4	1,515.02	1/4	1,788.53	1/4	2,062.05	1/4	2,335.56	1/4	2,609.07
1/2	159.99	1/2	433.49	1/2	705.99	1/2	973.69	1/2	1,247.20	1/2	1,520.72	1/2	1,794.23	1/2	2,067.74	1/2	2,341.26	1/2	2,614.77
3/4	165.69	3/4	439.19	3/4	711.52	3/4	979.39	3/4	1,252.90	3/4	1,526.41	3/4	1,799.93	3/4	2,073.44	3/4	2,346.96	3/4	2,620.47
9	171.39	9	444.89	9	717.04	9	985.09	9	1,258.60	9	1,532.11	9	1,805.63	9	2,079.14	9	2,352.65	9	2,626.17
1/4	177.08	1/4	450.59	1/4	722.57	1/4	990.78	1/4	1,264.30	1/4	1,537.81	1/4	1,811.32	1/4	2,084.84	1/4	2,358.35	1/4	2,631.86
1/2	182.78	1/2	456.29	1/2	728.10	1/2	996.48	1/2	1,270.00	1/2	1,543.51	1/2	1,817.02	1/2	2,090.54	1/2	2,364.05	1/2	2,637.56
3/4	188.48	3/4	461.98	3/4	733.62	3/4	1,002.18	3/4	1,275.69	3/4	1,549.21	3/4	1,822.72	3/4	2,096.23	3/4	2,369.75	3/4	2,643.26
10	194.18	10	467.68	10	739.15	10	1,007.88	10	1,281.39	10	1,554.91	10	1,828.42	10	2,101.93	10	2,375.45	10	2,648.96
1/4	199.88	1/4	473.38	1/4	744.68	1/4	1,013.58	1/4	1,287.09	1/4	1,560.60	1/4	1,834.12	1/4	2,107.63	1/4	2,381.14	1/4	2,654.66
1/2	205.57	1/2	479.08	1/2	750.20	1/2	1,019.27	1/2	1,292.79	1/2	1,566.30	1/2	1,839.82	1/2	2,113.33	1/2	2,386.84	1/2	2,660.36
3/4	211.27	3/4	484.78	3/4	755.73	3/4	1,024.97	3/4	1,298.49	3/4	1,572.00	3/4	1,845.51	3/4	2,119.03	3/4	2,392.54	3/4	2,666.05
11	216.97	11	490.47	11	761.26	11	1,030.67	11	1,304.18	11	1,577.70	11	1,851.21	11	2,124.73	11	2,398.24	11	2,671.75
1/4	222.67	1/4	496.17	1/4	766.78	1/4	1,036.37	1/4	1,309.88	1/4	1,583.40	1/4	1,856.91	1/4	2,130.42	1/4	2,403.94	1/4	2,677.45
1/2	228.37	1/2	501.87	1/2	772.31	1/2	1,042.07	1/2	1,315.58	1/2	1,589.09	1/2	1,862.61	1/2	2,136.12	1/2	2,409.64	1/2	2,683.15
3/4	234.06	3/4	507.57	3/4	777.84	3/4	1,047.77	3/4	1,321.28	3/4	1,594.79	3/4	1,868.31	3/4	2,141.82	3/4	2,415.33	3/4	2,688.85

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 TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77688
<http://www.pmacorp.net>



BARGE "E2MS 104"

2 CENTER INNAGE TABLE

GAUGE HEIGHT 15'-09"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,694.56	0	2,968.06	0	3,241.57	0	3,515.09	0	3,788.60	0	0	0	0	0	0	0	0	0	0
1/4	2,700.24	1/4	2,973.76	1/4	3,247.27	1/4	3,520.78	1/4	3,794.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,705.94	1/2	2,979.46	1/2	3,252.97	1/2	3,526.48	1/2	3,800.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,711.64	3/4	2,985.15	3/4	3,258.67	3/4	3,532.18	3/4	3,805.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,717.34	1	2,990.85	1	3,264.37	1	3,537.88	1	3,811.39	1	1	1	1	1	1	1	1	1	1
1 1/4	2,723.04	1 1/4	2,996.55	1 1/4	3,270.06	1 1/4	3,543.58	1 1/4	3,817.09	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,728.73	1 1/2	3,002.25	1 1/2	3,275.76	1 1/2	3,549.28	1 1/2	3,822.79	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,734.43	3/4	3,007.95	3/4	3,281.46	3/4	3,554.97	3/4	3,828.49	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,740.13	2	3,013.64	2	3,287.16	2	3,560.67	2	3,834.19	2	2	2	2	2	2	2	2	2	2
2 1/4	2,745.83	2 1/4	3,019.34	2 1/4	3,292.86	2 1/4	3,566.37	2 1/4	3,839.88	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2,751.53	2 1/2	3,025.04	2 1/2	3,298.55	2 1/2	3,572.07	2 1/2	3,845.58	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
3/4	2,757.23	3/4	3,030.74	3/4	3,304.25	3/4	3,577.77	3/4	3,851.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,762.92	3	3,036.44	3	3,309.95	3	3,583.46	3	3,856.97	3	3	3	3	3	3	3	3	3	3
3 1/4	2,768.62	3 1/4	3,042.14	3 1/4	3,315.65	3 1/4	3,589.16	3 1/4	3,862.66	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	2,774.32	3 1/2	3,047.83	3 1/2	3,321.35	3 1/2	3,594.86	3 1/2	3,868.34	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3/4	2,780.02	3/4	3,053.53	3/4	3,327.05	3/4	3,600.56	3/4	3,874.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,785.72	4	3,059.23	4	3,332.74	4	3,606.26	4	3,879.71	4	4	4	4	4	4	4	4	4	4
4 1/4	2,791.41	4 1/4	3,064.93	4 1/4	3,338.44	4 1/4	3,611.96	4 1/4	3,885.36	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	2,797.11	4 1/2	3,070.63	4 1/2	3,344.14	4 1/2	3,617.65	4 1/2	3,891.00	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
3/4	2,802.81	3/4	3,076.32	3/4	3,349.84	3/4	3,623.35	3/4	3,896.65	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,808.51	5	3,082.02	5	3,355.54	5	3,629.05	5	3,902.30	5	5	5	5	5	5	5	5	5	5
5 1/4	2,814.21	5 1/4	3,087.72	5 1/4	3,361.23	5 1/4	3,634.75	5 1/4	3,907.05	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	2,819.91	5 1/2	3,093.42	5 1/2	3,366.93	5 1/2	3,640.45	5 1/2	3,911.79	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
3/4	2,825.60	3/4	3,099.12	3/4	3,372.63	3/4	3,646.14	3/4	3,916.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,831.30	6	3,104.82	6	3,378.33	6	3,651.84	6	3,921.29	6	6	6	6	6	6	6	6	6	6
6 1/4	2,837.00	6 1/4	3,110.51	6 1/4	3,384.03	6 1/4	3,657.54	6 1/4	3,924.13	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	2,842.70	6 1/2	3,116.21	6 1/2	3,389.73	6 1/2	3,663.24	6 1/2	3,926.98	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
3/4	2,848.40	3/4	3,121.91	3/4	3,395.42	3/4	3,668.94	3/4	3,929.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,854.09	7	3,127.61	7	3,401.12	7	3,674.64	7	3,932.68	7	7	7	7	7	7	7	7	7	7
7 1/4	2,859.79	7 1/4	3,133.31	7 1/4	3,406.82	7 1/4	3,680.33	7 1/4	3,933.63	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	2,865.49	7 1/2	3,139.00	7 1/2	3,412.52	7 1/2	3,686.03	7 1/2	3,934.58	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
3/4	2,871.19	3/4	3,144.70	3/4	3,418.22	3/4	3,691.73	3/4	3,935.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,876.89	8	3,150.40	8	3,423.91	8	3,697.43	8	3,936.47	8	8	8	8	8	8	8	8	8	8
8 1/4	2,882.59	8 1/4	3,156.10	8 1/4	3,429.61	8 1/4	3,703.13	8 1/4	3,937.41	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	2,888.28	8 1/2	3,161.80	8 1/2	3,435.31	8 1/2	3,708.82	8 1/2	3,938.35	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
3/4	2,893.98	3/4	3,167.50	3/4	3,441.01	3/4	3,714.52	3/4	3,939.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,899.68	9	3,173.19	9	3,446.71	9	3,720.22	9	3,940.23	9	9	9	9	9	9	9	9	9	9
9 1/4	2,905.38	9 1/4	3,178.89	9 1/4	3,452.41	9 1/4	3,725.92	9 1/4	3,941.17	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	2,911.08	9 1/2	3,184.59	9 1/2	3,458.10	9 1/2	3,731.62	9 1/2	3,942.11	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
3/4	2,916.77	3/4	3,190.29	3/4	3,463.80	3/4	3,737.32	3/4	3,943.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,922.47	10	3,195.99	10	3,469.50	10	3,743.01	10	3,943.99	10	10	10	10	10	10	10	10	10	10
10 1/4	2,928.17	10 1/4	3,201.68	10 1/4	3,475.20	10 1/4	3,748.71	10 1/4	3,944.93	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	2,933.87	10 1/2	3,207.38	10 1/2	3,480.90	10 1/2	3,754.41	10 1/2	3,945.87	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
3/4	2,939.57	3/4	3,213.08	3/4	3,486.59	3/4	3,760.11	3/4	3,946.81	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,945.27	11	3,218.78	11	3,492.29	11	3,765.81	11	3,947.75	11	11	11	11	11	11	11	11	11	11
11 1/4	2,950.96	11 1/4	3,224.48	11 1/4	3,497.99	11 1/4	3,771.50	11 1/4	3,948.69	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	2,956.66	11 1/2	3,230.18	11 1/2	3,503.69	11 1/2	3,777.20	11 1/2	3,949.63	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
3/4	2,962.36	3/4	3,235.87	3/4	3,509.39	3/4	3,782.90	3/4	3,950.57	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: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "E2MS 104"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 5/8"

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	0.73	0	215.00	0	460.17	0	705.09	0	950.02	0	1,195.20	0	1,440.38	0	1,685.56	0	1,930.74	0	2,175.92
1/4	1.58	1/4	220.11	1/4	465.28	1/4	710.19	1/4	955.13	1/4	1,200.31	1/4	1,445.49	1/4	1,690.67	1/4	1,935.85	1/4	2,181.03
1/2	2.43	1/2	225.21	1/2	470.38	1/2	715.28	1/2	960.24	1/2	1,205.42	1/2	1,450.60	1/2	1,695.78	1/2	1,940.96	1/2	2,186.14
3/4	3.28	3/4	230.32	3/4	475.49	3/4	720.38	3/4	965.35	3/4	1,210.53	3/4	1,455.71	3/4	1,700.89	3/4	1,946.06	3/4	2,191.24
1	4.13	1	235.43	1	480.60	1	725.47	1	970.46	1	1,215.63	1	1,460.81	1	1,705.99	1	1,951.17	1	2,196.35
1 1/4	6.68	1 1/4	240.54	1 1/4	485.71	1 1/4	730.57	1 1/4	975.56	1 1/4	1,220.74	1 1/4	1,465.92	1 1/4	1,711.10	1 1/4	1,956.28	1 1/4	2,201.46
1 1/2	9.23	1 1/2	245.65	1 1/2	490.81	1 1/2	735.66	1 1/2	980.67	1 1/2	1,225.85	1 1/2	1,471.03	1 1/2	1,716.21	1 1/2	1,961.39	1 1/2	2,206.57
3 1/4	11.79	3 1/4	250.75	3 1/4	495.92	3 1/4	740.75	3 1/4	985.78	3 1/4	1,230.96	3 1/4	1,476.14	3 1/4	1,721.32	3 1/4	1,966.50	3 1/4	2,211.67
2	14.34	2	255.86	2	501.03	2	745.85	2	990.89	2	1,236.07	2	1,481.25	2	1,726.42	2	1,971.60	2	2,216.78
2 1/4	18.59	2 1/4	260.97	2 1/4	506.14	2 1/4	750.94	2 1/4	995.99	2 1/4	1,241.17	2 1/4	1,486.35	2 1/4	1,731.53	2 1/4	1,976.71	2 1/4	2,221.89
2 1/2	22.85	2 1/2	266.08	2 1/2	511.25	2 1/2	756.04	2 1/2	1,001.10	2 1/2	1,246.28	2 1/2	1,491.46	2 1/2	1,736.64	2 1/2	1,981.82	2 1/2	2,227.00
3 1/2	27.10	3 1/2	271.18	3 1/2	516.35	3 1/2	761.13	3 1/2	1,006.21	3 1/2	1,251.39	3 1/2	1,496.57	3 1/2	1,741.75	3 1/2	1,986.93	3 1/2	2,232.11
3	31.36	3	276.29	3	521.46	3	766.23	3	1,011.32	3	1,256.50	3	1,501.68	3	1,746.86	3	1,992.04	3	2,237.21
3 1/4	36.42	3 1/4	281.40	3 1/4	526.57	3 1/4	771.32	3 1/4	1,016.43	3 1/4	1,261.61	3 1/4	1,506.78	3 1/4	1,751.96	3 1/4	1,997.14	3 1/4	2,242.32
1 1/2	41.48	1 1/2	286.51	1 1/2	531.68	1 1/2	776.42	1 1/2	1,021.53	1 1/2	1,266.71	1 1/2	1,511.89	1 1/2	1,757.07	1 1/2	2,002.25	1 1/2	2,247.43
3 3/4	46.55	3 3/4	291.61	3 3/4	536.78	3 3/4	781.51	3 3/4	1,026.64	3 3/4	1,271.82	3 3/4	1,517.00	3 3/4	1,762.18	3 3/4	2,007.36	3 3/4	2,252.54
4	51.61	4	296.72	4	541.89	4	786.61	4	1,031.75	4	1,276.93	4	1,522.11	4	1,767.29	4	2,012.47	4	2,257.65
4 1/4	56.71	4 1/4	301.83	4 1/4	547.00	4 1/4	791.71	4 1/4	1,036.86	4 1/4	1,282.04	4 1/4	1,527.22	4 1/4	1,772.40	4 1/4	2,017.57	4 1/4	2,262.75
1 1/2	61.80	1 1/2	306.94	1 1/2	552.11	1 1/2	796.80	1 1/2	1,041.97	1 1/2	1,287.15	1 1/2	1,532.32	1 1/2	1,777.50	1 1/2	2,022.68	1 1/2	2,267.86
3 1/2	66.90	3 1/2	312.05	3 1/2	557.21	3 1/2	801.90	3 1/2	1,047.07	3 1/2	1,292.25	3 1/2	1,537.43	3 1/2	1,782.61	3 1/2	2,027.79	3 1/2	2,272.97
5	71.99	5	317.15	5	562.32	5	807.00	5	1,052.18	5	1,297.36	5	1,542.54	5	1,787.72	5	2,032.90	5	2,278.08
1 1/4	77.10	1 1/4	322.26	1 1/4	567.43	1 1/4	812.11	1 1/4	1,057.29	1 1/4	1,302.47	1 1/4	1,547.65	1 1/4	1,792.83	1 1/4	2,038.01	1 1/4	2,283.19
1 1/2	82.20	1 1/2	327.37	1 1/2	572.54	1 1/2	817.22	1 1/2	1,062.40	1 1/2	1,307.58	1 1/2	1,552.76	1 1/2	1,797.94	1 1/2	2,043.11	1 1/2	2,288.29
3 1/4	87.31	3 1/4	332.48	3 1/4	577.65	3 1/4	822.33	3 1/4	1,067.51	3 1/4	1,312.68	3 1/4	1,557.86	3 1/4	1,803.04	3 1/4	2,048.22	3 1/4	2,293.40
6	92.41	6	337.58	6	582.75	6	827.43	6	1,072.61	6	1,317.79	6	1,562.97	6	1,808.15	6	2,053.33	6	2,298.51
1 1/4	97.52	1 1/4	342.69	1 1/4	587.86	1 1/4	832.54	1 1/4	1,077.72	1 1/4	1,322.90	1 1/4	1,568.08	1 1/4	1,813.26	1 1/4	2,058.44	1 1/4	2,303.62
1 1/2	102.63	1 1/2	347.80	1 1/2	592.97	1 1/2	837.65	1 1/2	1,082.83	1 1/2	1,328.01	1 1/2	1,573.19	1 1/2	1,818.37	1 1/2	2,063.55	1 1/2	2,308.73
3 1/4	107.74	3 1/4	352.91	3 1/4	598.08	3 1/4	842.76	3 1/4	1,087.94	3 1/4	1,333.12	3 1/4	1,578.30	3 1/4	1,823.47	3 1/4	2,068.65	3 1/4	2,313.83
7	112.84	7	358.01	7	603.18	7	847.87	7	1,093.04	7	1,338.22	7	1,583.40	7	1,828.58	7	2,073.76	7	2,318.94
1 1/4	117.95	1 1/4	363.12	1 1/4	608.28	1 1/4	852.97	1 1/4	1,098.15	1 1/4	1,343.33	1 1/4	1,588.51	1 1/4	1,833.69	1 1/4	2,078.87	1 1/4	2,324.05
1 1/2	123.06	1 1/2	368.23	1 1/2	613.38	1 1/2	858.08	1 1/2	1,103.26	1 1/2	1,348.44	1 1/2	1,593.62	1 1/2	1,838.80	1 1/2	2,083.98	1 1/2	2,329.16
3 1/4	128.17	3 1/4	373.34	3 1/4	618.48	3 1/4	863.19	3 1/4	1,108.37	3 1/4	1,353.55	3 1/4	1,598.73	3 1/4	1,843.91	3 1/4	2,089.09	3 1/4	2,334.26
8	133.28	8	378.45	8	623.58	8	868.30	8	1,113.48	8	1,358.66	8	1,603.83	8	1,849.01	8	2,094.19	8	2,339.37
1 1/4	138.38	1 1/4	383.55	1 1/4	628.67	1 1/4	873.41	1 1/4	1,118.58	1 1/4	1,363.76	1 1/4	1,608.94	1 1/4	1,854.12	1 1/4	2,099.30	1 1/4	2,344.48
1 1/2	143.49	1 1/2	388.66	1 1/2	633.77	1 1/2	878.51	1 1/2	1,123.69	1 1/2	1,368.87	1 1/2	1,614.05	1 1/2	1,859.23	1 1/2	2,104.41	1 1/2	2,349.59
3 1/4	148.60	3 1/4	393.77	3 1/4	638.86	3 1/4	883.62	3 1/4	1,128.80	3 1/4	1,373.98	3 1/4	1,619.16	3 1/4	1,864.34	3 1/4	2,109.52	3 1/4	2,354.70
9	153.71	9	398.88	9	643.96	9	888.73	9	1,133.91	9	1,379.09	9	1,624.27	9	1,869.45	9	2,114.62	9	2,359.80
1 1/4	158.81	1 1/4	403.98	1 1/4	649.05	1 1/4	893.84	1 1/4	1,139.02	1 1/4	1,384.20	1 1/4	1,629.37	1 1/4	1,874.55	1 1/4	2,119.73	1 1/4	2,364.91
1 1/2	163.92	1 1/2	409.09	1 1/2	654.14	1 1/2	898.94	1 1/2	1,144.12	1 1/2	1,389.30	1 1/2	1,634.48	1 1/2	1,879.66	1 1/2	2,124.84	1 1/2	2,370.02
3 1/4	169.03	3 1/4	414.20	3 1/4	659.24	3 1/4	904.05	3 1/4	1,149.23	3 1/4	1,394.41	3 1/4	1,639.59	3 1/4	1,884.77	3 1/4	2,129.95	3 1/4	2,375.13
10	174.14	10	419.31	10	664.33	10	909.16	10	1,154.34	10	1,399.52	10	1,644.70	10	1,889.88	10	2,135.06	10	2,380.24
1 1/4	179.25	1 1/4	424.41	1 1/4	669.43	1 1/4	914.27	1 1/4	1,159.45	1 1/4	1,404.63	1 1/4	1,649.81	1 1/4	1,894.99	1 1/4	2,140.16	1 1/4	2,385.34
1 1/2	184.35	1 1/2	429.52	1 1/2	674.52	1 1/2	919.38	1 1/2	1,164.56	1 1/2	1,409.73	1 1/2	1,654.91	1 1/2	1,900.09	1 1/2	2,145.27	1 1/2	2,390.45
3 1/4	189.46	3 1/4	434.63	3 1/4	679.62	3 1/4	924.48	3 1/4	1,169.66	3 1/4	1,414.84	3 1/4	1,660.02	3 1/4	1,905.20	3 1/4	2,150.38	3 1/4	2,395.56
11	194.57	11	439.74	11	684.71	11	929.59	11	1,174.77	11	1,419.95	11	1,665.13	11	1,910.31	11	2,155.49	11	2,400.67
1 1/4	199.68	1 1/4	444.85	1 1/4	689.81	1 1/4	934.70	1 1/4	1,179.88	1 1/4	1,425.06	1 1/4	1,670.24	1 1/4	1,915.42	1 1/4	2,160.60	1 1/4	2,405.78
1 1/2	204.78	1 1/2	449.95	1 1/2	694.90	1 1/2	939.81	1 1/2	1,184.99	1 1/2	1,430.17	1 1/2	1,675.35	1 1/2	1,920.52	1 1/2	2,165.70	1 1/2	2,410.88
3 1/4	209.89	3 1/4	455.06	3 1/4	700.00	3 1/4	944.92	3 1/4	1,190.10	3 1/4	1,435.27	3 1/4	1,680.45	3 1/4	1,925.63	3 1/4	2,170.81	3 1/4	2,415.99

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 TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" 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.pmtacorp.net>



BARGE "E2MS 104"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 5/8"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,421.10	0	2,686.28	0	2,911.46	0	3,156.64	0	3,401.82	0		0		0		0		0	
1/4	2,426.21	1/4	2,671.39	1/4	2,916.57	1/4	3,161.74	1/4	3,406.92	1/4		1/4		1/4		1/4		1/4	
1/2	2,431.31	1/2	2,676.49	1/2	2,921.67	1/2	3,166.85	1/2	3,412.03	1/2		1/2		1/2		1/2		1/2	
3/4	2,436.42	3/4	2,681.60	3/4	2,926.78	3/4	3,171.96	3/4	3,417.14	3/4		3/4		3/4		3/4		3/4	
1	2,441.53	1	2,686.71	1	2,931.89	1	3,177.07	1	3,422.25	1		1		1		1		1	
1 1/4	2,446.64	1 1/4	2,691.82	1 1/4	2,937.00	1 1/4	3,182.18	1 1/4	3,427.36	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,451.75	1 1/2	2,696.93	1 1/2	2,942.10	1 1/2	3,187.28	1 1/2	3,432.46	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,456.85	3/4	2,702.03	3/4	2,947.21	3/4	3,192.39	3/4	3,437.57	3/4		3/4		3/4		3/4		3/4	
2	2,461.96	2	2,707.14	2	2,952.32	2	3,197.50	2	3,442.68	2		2		2		2		2	
1 1/4	2,467.07	1 1/4	2,712.25	1 1/4	2,957.43	1 1/4	3,202.61	1 1/4	3,447.78	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,472.18	1 1/2	2,717.36	1 1/2	2,962.54	1 1/2	3,207.72	1 1/2	3,452.88	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,477.29	3/4	2,722.46	3/4	2,967.64	3/4	3,212.82	3/4	3,457.98	3/4		3/4		3/4		3/4		3/4	
3	2,482.39	3	2,727.57	3	2,972.75	3	3,217.93	3	3,463.08	3		3		3		3		3	
1 1/4	2,487.50	1 1/4	2,732.68	1 1/4	2,977.86	1 1/4	3,223.04	1 1/4	3,468.18	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,492.61	1 1/2	2,737.79	1 1/2	2,982.97	1 1/2	3,228.15	1 1/2	3,473.27	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,497.72	3/4	2,742.90	3/4	2,988.08	3/4	3,233.25	3/4	3,478.37	3/4		3/4		3/4		3/4		3/4	
4	2,502.83	4	2,748.00	4	2,993.18	4	3,238.36	4	3,483.46	4		4		4		4		4	
1 1/4	2,507.93	1 1/4	2,753.11	1 1/4	2,998.29	1 1/4	3,243.47	1 1/4	3,488.52	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,513.04	1 1/2	2,758.22	1 1/2	3,003.40	1 1/2	3,248.58	1 1/2	3,493.59	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,518.15	3/4	2,763.33	3/4	3,008.51	3/4	3,253.69	3/4	3,498.66	3/4		3/4		3/4		3/4		3/4	
5	2,523.26	5	2,768.44	5	3,013.62	5	3,258.79	5	3,503.72	5		5		5		5		5	
1 1/4	2,528.36	1 1/4	2,773.54	1 1/4	3,018.72	1 1/4	3,263.90	1 1/4	3,507.97	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,533.47	1 1/2	2,778.65	1 1/2	3,023.83	1 1/2	3,269.01	1 1/2	3,512.22	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,538.58	3/4	2,783.76	3/4	3,028.94	3/4	3,274.12	3/4	3,516.48	3/4		3/4		3/4		3/4		3/4	
6	2,543.69	6	2,788.87	6	3,034.05	6	3,279.23	6	3,520.73	6		6		6		6		6	
1 1/4	2,548.80	1 1/4	2,793.98	1 1/4	3,039.15	1 1/4	3,284.33	1 1/4	3,525.29	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,553.90	1 1/2	2,799.08	1 1/2	3,044.26	1 1/2	3,289.44	1 1/2	3,529.84	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,559.01	3/4	2,804.19	3/4	3,049.37	3/4	3,294.55	3/4	3,534.39	3/4		3/4		3/4		3/4		3/4	
7	2,564.12	7	2,809.30	7	3,054.48	7	3,299.66	7	3,539.94	7		7		7		7		7	
1 1/4	2,569.23	1 1/4	2,814.41	1 1/4	3,059.59	1 1/4	3,304.77	1 1/4	3,544.79	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,574.34	1 1/2	2,819.52	1 1/2	3,064.69	1 1/2	3,309.87	1 1/2	3,549.64	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,579.44	3/4	2,824.62	3/4	3,069.80	3/4	3,314.98	3/4	3,554.49	3/4		3/4		3/4		3/4		3/4	
8	2,584.55	8	2,829.73	8	3,074.91	8	3,320.09	8	3,559.34	8		8		8		8		8	
1 1/4	2,589.66	1 1/4	2,834.84	1 1/4	3,080.02	1 1/4	3,325.20	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,594.77	1 1/2	2,839.95	1 1/2	3,085.13	1 1/2	3,330.31	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,599.88	3/4	2,845.05	3/4	3,090.23	3/4	3,335.41	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,604.98	9	2,850.16	9	3,095.34	9	3,340.52	9		9		9		9		9		9	
1 1/4	2,610.09	1 1/4	2,855.27	1 1/4	3,100.45	1 1/4	3,345.63	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,615.20	1 1/2	2,860.38	1 1/2	3,105.56	1 1/2	3,350.74	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,620.31	3/4	2,865.49	3/4	3,110.67	3/4	3,355.84	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,625.41	10	2,870.59	10	3,115.77	10	3,360.95	10		10		10		10		10		10	
1 1/4	2,630.52	1 1/4	2,875.70	1 1/4	3,120.88	1 1/4	3,366.06	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,635.63	1 1/2	2,880.81	1 1/2	3,125.99	1 1/2	3,371.17	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,640.74	3/4	2,885.92	3/4	3,131.10	3/4	3,376.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,645.85	11	2,891.03	11	3,136.20	11	3,381.38	11		11		11		11		11		11	
1 1/4	2,650.95	1 1/4	2,896.13	1 1/4	3,141.31	1 1/4	3,386.49	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	2,656.06	1 1/2	2,901.24	1 1/2	3,146.42	1 1/2	3,391.60	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	2,661.17	3/4	2,906.35	3/4	3,151.53	3/4	3,396.71	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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 104
ULLAGE TRIM TABLE

	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 CENTER	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 CENTER	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/8	01-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

LENGTH BETWEEN DRAFT MARKS: 163'-09"

July 10, 2019

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



BARGE "E2MS 104"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																	
	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.	10 FT.	11 FT.						
0	0	3,429.33	0	3,239.83	0	3,028.31	0	2,816.78	0	2,605.53	0	2,364.25	0	2,116.33	0	1,868.51	0	1,621.14
1/4	1/4	3,428.46	1/4	3,235.43	1/4	3,023.90	1/4	2,812.37	1/4	2,601.16	1/4	2,359.09	1/4	2,111.16	1/4	1,863.36	1/4	1,615.98
1/2	1/2	3,427.60	1/2	3,231.02	1/2	3,019.49	1/2	2,807.97	1/2	2,596.78	1/2	2,353.93	1/2	2,105.99	1/2	1,858.21	1/2	1,610.82
3/4	3/4	3,426.74	3/4	3,226.61	3/4	3,015.09	3/4	2,803.56	3/4	2,582.41	3/4	2,346.77	3/4	2,100.83	3/4	1,853.07	3/4	1,605.66
1	1	3,425.88	1	3,222.21	1	3,010.68	1	2,799.15	1	2,588.04	1	2,343.61	1	2,095.66	1	1,847.92	1	1,600.50
1/4	1/4	3,423.29	1/4	3,217.80	1/4	3,006.27	1/4	2,794.75	1/4	2,583.67	1/4	2,338.45	1/4	2,090.50	1/4	1,842.77	1/4	1,595.34
1/2	1/2	3,420.70	1/2	3,213.39	1/2	3,001.87	1/2	2,790.34	1/2	2,579.30	1/2	2,333.28	1/2	2,085.33	1/2	1,837.62	1/2	1,590.18
3/4	3/4	3,418.11	3/4	3,208.99	3/4	2,997.46	3/4	2,785.93	3/4	2,574.92	3/4	2,326.11	3/4	2,080.17	3/4	1,832.47	3/4	1,585.02
2	2	3,415.52	2	3,204.58	2	2,993.05	2	2,781.53	2	2,570.55	2	2,322.95	2	2,075.00	2	1,827.32	2	1,579.86
1/4	1/4	3,411.21	1/4	3,200.17	1/4	2,988.65	1/4	2,777.12	1/4	2,565.41	1/4	2,317.78	1/4	2,069.83	1/4	1,822.17	1/4	1,574.70
1/2	1/2	3,406.89	1/2	3,195.77	1/2	2,984.24	1/2	2,772.71	1/2	2,560.26	1/2	2,312.62	1/2	2,064.67	1/2	1,817.02	1/2	1,569.53
3/4	3/4	3,402.58	3/4	3,191.36	3/4	2,979.83	3/4	2,768.31	3/4	2,555.12	3/4	2,307.45	3/4	2,059.50	3/4	1,811.88	3/4	1,564.37
3	3	3,398.26	3	3,186.95	3	2,975.43	3	2,763.90	3	2,549.97	3	2,302.29	3	2,054.34	3	1,806.73	3	1,559.21
1/4	1/4	3,393.90	1/4	3,182.55	1/4	2,971.02	1/4	2,759.49	1/4	2,544.83	1/4	2,297.12	1/4	2,049.17	1/4	1,801.58	1/4	1,554.05
1/2	1/2	3,389.54	1/2	3,178.14	1/2	2,966.61	1/2	2,755.09	1/2	2,539.68	1/2	2,291.96	1/2	2,044.01	1/2	1,796.43	1/2	1,548.89
3/4	3/4	3,385.18	3/4	3,173.73	3/4	2,962.21	3/4	2,750.68	3/4	2,534.53	3/4	2,286.79	3/4	2,038.84	3/4	1,791.28	3/4	1,543.73
4	4	3,380.81	4	3,169.32	4	2,957.80	4	2,746.27	4	2,529.39	4	2,281.62	4	2,033.68	4	1,786.13	4	1,538.57
1/4	1/4	3,376.42	1/4	3,164.92	1/4	2,953.39	1/4	2,741.87	1/4	2,524.23	1/4	2,276.46	1/4	2,028.51	1/4	1,780.98	1/4	1,533.41
1/2	1/2	3,372.03	1/2	3,160.51	1/2	2,948.98	1/2	2,737.46	1/2	2,519.07	1/2	2,271.29	1/2	2,023.34	1/2	1,775.84	1/2	1,528.25
3/4	3/4	3,367.63	3/4	3,156.10	3/4	2,944.58	3/4	2,733.05	3/4	2,513.91	3/4	2,266.13	3/4	2,018.18	3/4	1,770.69	3/4	1,523.09
5	5	3,363.24	5	3,151.70	5	2,940.17	5	2,728.64	5	2,508.75	5	2,260.96	5	2,013.01	5	1,765.54	5	1,517.93
1/4	1/4	3,358.83	1/4	3,147.29	1/4	2,935.76	1/4	2,724.24	1/4	2,503.59	1/4	2,255.80	1/4	2,007.85	1/4	1,760.39	1/4	1,512.77
1/2	1/2	3,354.42	1/2	3,142.88	1/2	2,931.36	1/2	2,719.83	1/2	2,498.43	1/2	2,250.63	1/2	2,002.68	1/2	1,755.24	1/2	1,507.61
3/4	3/4	3,350.01	3/4	3,138.48	3/4	2,926.95	3/4	2,715.42	3/4	2,493.27	3/4	2,245.47	3/4	1,997.52	3/4	1,750.09	3/4	1,502.46
6	6	3,345.60	6	3,134.07	6	2,922.54	6	2,711.02	6	2,488.11	6	2,240.30	6	1,992.35	6	1,744.94	6	1,497.29
1/4	1/4	3,341.19	1/4	3,129.66	1/4	2,918.14	1/4	2,706.61	1/4	2,482.95	1/4	2,235.13	1/4	1,987.19	1/4	1,739.79	1/4	1,492.12
1/2	1/2	3,336.78	1/2	3,125.26	1/2	2,913.73	1/2	2,702.20	1/2	2,477.78	1/2	2,229.97	1/2	1,982.02	1/2	1,734.65	1/2	1,486.96
3/4	3/4	3,332.38	3/4	3,120.85	3/4	2,909.32	3/4	2,697.80	3/4	2,472.62	3/4	2,224.80	3/4	1,976.85	3/4	1,729.50	3/4	1,481.79
7	7	3,327.97	7	3,116.44	7	2,904.92	7	2,693.39	7	2,467.48	7	2,219.64	7	1,971.69	7	1,724.35	7	1,476.63
1/4	1/4	3,323.56	1/4	3,112.04	1/4	2,900.51	1/4	2,688.98	1/4	2,462.30	1/4	2,214.47	1/4	1,966.82	1/4	1,719.20	1/4	1,471.47
1/2	1/2	3,319.16	1/2	3,107.63	1/2	2,896.10	1/2	2,684.58	1/2	2,457.14	1/2	2,209.31	1/2	1,961.36	1/2	1,714.05	1/2	1,466.30
3/4	3/4	3,314.75	3/4	3,103.22	3/4	2,891.70	3/4	2,680.17	3/4	2,451.98	3/4	2,204.14	3/4	1,956.19	3/4	1,708.90	3/4	1,461.14
8	8	3,310.34	8	3,098.82	8	2,887.29	8	2,675.76	8	2,446.82	8	2,198.97	8	1,951.03	8	1,703.75	8	1,455.97
1/4	1/4	3,305.94	1/4	3,094.41	1/4	2,882.88	1/4	2,671.36	1/4	2,441.66	1/4	2,193.81	1/4	1,945.86	1/4	1,698.59	1/4	1,450.81
1/2	1/2	3,301.53	1/2	3,090.00	1/2	2,878.48	1/2	2,666.95	1/2	2,436.50	1/2	2,188.64	1/2	1,940.69	1/2	1,693.43	1/2	1,445.64
3/4	3/4	3,297.12	3/4	3,085.60	3/4	2,874.07	3/4	2,662.54	3/4	2,431.34	3/4	2,183.48	3/4	1,935.53	3/4	1,688.26	3/4	1,440.48
9	9	3,292.72	9	3,081.19	9	2,869.66	9	2,658.14	9	2,426.18	9	2,178.31	9	1,930.36	9	1,683.10	9	1,435.32
1/4	1/4	3,288.31	1/4	3,076.78	1/4	2,865.26	1/4	2,653.73	1/4	2,421.02	1/4	2,173.15	1/4	1,925.20	1/4	1,677.94	1/4	1,430.16
1/2	1/2	3,283.90	1/2	3,072.38	1/2	2,860.85	1/2	2,649.32	1/2	2,415.86	1/2	2,167.98	1/2	1,920.03	1/2	1,672.77	1/2	1,424.99
3/4	3/4	3,279.50	3/4	3,067.97	3/4	2,856.44	3/4	2,644.92	3/4	2,410.70	3/4	2,162.82	3/4	1,914.87	3/4	1,667.61	3/4	1,419.82
10	10	3,275.09	10	3,063.56	10	2,852.04	10	2,640.51	10	2,405.54	10	2,157.65	10	1,909.70	10	1,662.45	10	1,414.66
1/4	1/4	3,270.68	1/4	3,059.15	1/4	2,847.63	1/4	2,636.14	1/4	2,400.38	1/4	2,152.48	1/4	1,904.55	1/4	1,657.28	1/4	1,409.49
1/2	1/2	3,266.27	1/2	3,054.75	1/2	2,843.22	1/2	2,631.76	1/2	2,395.22	1/2	2,147.32	1/2	1,899.40	1/2	1,652.12	1/2	1,404.33
3/4	3/4	3,261.87	3/4	3,050.34	3/4	2,838.81	3/4	2,627.39	3/4	2,390.06	3/4	2,142.15	3/4	1,894.26	3/4	1,646.96	3/4	1,399.17
11	11	3,257.46	11	3,045.93	11	2,834.41	11	2,623.02	11	2,384.90	11	2,136.99	11	1,889.11	11	1,641.79	11	1,394.00
1/4	1/4	3,253.05	1/4	3,041.53	1/4	2,830.00	1/4	2,618.65	1/4	2,379.74	1/4	2,131.82	1/4	1,883.96	1/4	1,636.63	1/4	1,388.84
1/2	1/2	3,248.65	1/2	3,037.12	1/2	2,825.59	1/2	2,614.27	1/2	2,374.57	1/2	2,126.66	1/2	1,878.81	1/2	1,631.47	1/2	1,383.67
3/4	3/4	3,244.24	3/4	3,032.71	3/4	2,821.19	3/4	2,609.90	3/4	2,369.41	3/4	2,121.49	3/4	1,873.66	3/4	1,626.30	3/4	1,378.51

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 TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-08" 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 104"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,373.35	0	1,125.46	0	877.58	0	635.08	0	387.14	0	138.50	0	0	0	0	0	0	0	0
1/4	1,368.18	1/4	1,120.30	1/4	872.42	1/4	630.06	1/4	381.96	1/4	133.32	1/4		1/4		1/4		1/4	
1/2	1,363.02	1/2	1,115.14	1/2	867.25	1/2	625.03	1/2	376.78	1/2	128.14	1/2		1/2		1/2		1/2	
3/4	1,357.85	3/4	1,109.97	3/4	862.09	3/4	620.01	3/4	371.60	3/4	122.96	3/4		3/4		3/4		3/4	
1	1,352.69	1	1,104.81	1	856.93	1	614.99	1	366.42	1	117.78	1		1		1		1	
1 1/4	1,347.52	1 1/4	1,099.64	1 1/4	851.76	1 1/4	609.81	1 1/4	361.24	1 1/4	112.60	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,342.36	1 1/2	1,094.48	1 1/2	846.60	1 1/2	604.64	1 1/2	356.06	1 1/2	107.42	1 1/2		1 1/2		1 1/2		1 1/2	
3/2	1,337.20	3/2	1,089.31	3/2	841.43	3/2	599.47	3/2	350.88	3/2	102.24	3/2		3/2		3/2		3/2	
2	1,332.03	2	1,084.15	2	836.27	2	594.30	2	345.70	2	97.06	2		2		2		2	
2 1/4	1,326.87	2 1/4	1,078.99	2 1/4	831.10	2 1/4	589.13	2 1/4	340.52	2 1/4	91.88	2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	1,321.70	2 1/2	1,073.82	2 1/2	825.94	2 1/2	583.98	2 1/2	335.34	2 1/2	86.70	2 1/2		2 1/2		2 1/2		2 1/2	
5/2	1,316.54	5/2	1,068.66	5/2	820.78	5/2	578.79	5/2	330.16	5/2	81.52	5/2		5/2		5/2		5/2	
3	1,311.37	3	1,063.49	3	815.61	3	573.61	3	324.98	3	76.35	3		3		3		3	
3 1/4	1,306.21	3 1/4	1,058.33	3 1/4	810.58	3 1/4	568.43	3 1/4	319.80	3 1/4	71.18	3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	1,301.05	3 1/2	1,053.16	3 1/2	805.54	3 1/2	563.25	3 1/2	314.62	3 1/2	66.01	3 1/2		3 1/2		3 1/2		3 1/2	
4	1,295.88	4	1,048.00	4	800.51	4	558.07	4	309.44	4	60.85	4		4		4		4	
4 1/4	1,290.72	4 1/4	1,042.84	4 1/4	795.48	4 1/4	552.89	4 1/4	304.26	4 1/4	55.68	4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	1,285.55	4 1/2	1,037.67	4 1/2	790.44	4 1/2	547.71	4 1/2	299.08	4 1/2	50.54	4 1/2		4 1/2		4 1/2		4 1/2	
5/2	1,280.39	5/2	1,032.51	5/2	785.41	5/2	542.53	5/2	293.90	5/2	45.41	5/2		5/2		5/2		5/2	
3 3/4	1,275.23	3 3/4	1,027.34	3 3/4	780.38	3 3/4	537.35	3 3/4	288.72	3 3/4	40.27	3 3/4		3 3/4		3 3/4		3 3/4	
5	1,270.06	5	1,022.18	5	775.35	5	532.17	5	283.54	5	35.14	5		5		5		5	
5 1/4	1,264.90	5 1/4	1,017.02	5 1/4	770.34	5 1/4	527.00	5 1/4	278.35	5 1/4	30.02	5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	1,259.73	5 1/2	1,011.85	5 1/2	765.34	5 1/2	521.82	5 1/2	273.18	5 1/2	26.51	5 1/2		5 1/2		5 1/2		5 1/2	
6	1,254.57	6	1,006.69	6	760.33	6	516.64	6	268.00	6	22.20	6		6		6		6	
6 1/4	1,249.40	6 1/4	1,001.52	6 1/4	755.32	6 1/4	511.46	6 1/4	262.82	6 1/4	17.88	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	1,244.24	6 1/2	996.36	6 1/2	750.31	6 1/2	506.28	6 1/2	257.64	6 1/2	16.29	6 1/2		6 1/2		6 1/2		6 1/2	
7	1,239.08	7	991.19	7	745.30	7	501.10	7	252.46	7	12.70	7		7		7		7	
7 1/4	1,233.91	7 1/4	986.03	7 1/4	740.30	7 1/4	495.92	7 1/4	247.28	7 1/4	10.11	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	1,228.75	7 1/2	980.87	7 1/2	735.29	7 1/2	490.74	7 1/2	242.10	7 1/2	7.53	7 1/2		7 1/2		7 1/2		7 1/2	
8	1,223.58	8	975.70	8	730.28	8	485.56	8	236.92	8	6.66	8		8		8		8	
8 1/4	1,218.42	8 1/4	970.54	8 1/4	725.27	8 1/4	480.38	8 1/4	231.74	8 1/4	5.80	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	1,213.26	8 1/2	965.37	8 1/2	720.26	8 1/2	475.20	8 1/2	226.56	8 1/2	4.94	8 1/2		8 1/2		8 1/2		8 1/2	
9	1,208.09	9	960.21	9	715.25	9	470.02	9	221.38	9	4.08	9		9		9		9	
9 1/4	1,202.93	9 1/4	955.05	9 1/4	710.25	9 1/4	464.84	9 1/4	216.20	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	1,197.76	9 1/2	949.88	9 1/2	705.24	9 1/2	459.66	9 1/2	211.02	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
10	1,192.60	10	944.72	10	700.23	10	454.48	10	205.84	10		10		10		10		10	
10 1/4	1,187.43	10 1/4	939.55	10 1/4	695.22	10 1/4	449.30	10 1/4	200.66	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	1,182.27	10 1/2	934.39	10 1/2	690.21	10 1/2	444.12	10 1/2	195.48	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
11	1,177.11	11	929.22	11	685.21	11	438.94	11	190.30	11		11		11		11		11	
11 1/4	1,171.94	11 1/4	924.06	11 1/4	680.20	11 1/4	433.76	11 1/4	185.12	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	1,166.78	11 1/2	918.90	11 1/2	675.19	11 1/2	428.58	11 1/2	179.94	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
12	1,161.61	12	913.73	12	670.18	12	423.40	12	174.76	12		12		12		12		12	
12 1/4	1,156.45	12 1/4	908.57	12 1/4	665.17	12 1/4	418.22	12 1/4	169.58	12 1/4		12 1/4		12 1/4		12 1/4		12 1/4	
12 1/2	1,151.28	12 1/2	903.40	12 1/2	660.17	12 1/2	413.04	12 1/2	164.40	12 1/2		12 1/2		12 1/2		12 1/2		12 1/2	
13	1,146.12	13	898.24	13	655.16	13	407.86	13	159.22	13		13		13		13		13	
13 1/4	1,140.96	13 1/4	893.07	13 1/4	650.14	13 1/4	402.68	13 1/4	154.04	13 1/4		13 1/4		13 1/4		13 1/4		13 1/4	
13 1/2	1,135.79	13 1/2	887.91	13 1/2	645.12	13 1/2	397.50	13 1/2	148.86	13 1/2		13 1/2		13 1/2		13 1/2		13 1/2	
14	1,130.63	14	882.75	14	640.10	14	392.32	14	143.68	14		14		14		14		14	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANGELS AND SUPERCEDS
ALL PRIOR TO 07/2019

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



BARGE "E2MS 104"

**2 CENTER
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	3,720.22	0	3,446.71	0	3,173.19	0	2,899.68	0	2,626.17	0	2,352.65	0	2,079.14	0	1,805.63	0
1/4	1/4	1/4	1/4	3,714.52	1/4	3,441.01	1/4	3,167.50	1/4	2,893.98	1/4	2,620.47	1/4	2,346.96	1/4	2,073.44	1/4	1,799.93	1/4
1/2	1/2	1/2	1/2	3,708.82	1/2	3,435.31	1/2	3,161.80	1/2	2,888.28	1/2	2,614.77	1/2	2,341.26	1/2	2,067.74	1/2	1,794.23	1/2
3/4	3/4	3/4	3/4	3,703.13	3/4	3,429.61	3/4	3,156.10	3/4	2,884.69	3/4	2,609.07	3/4	2,335.56	3/4	2,062.05	3/4	1,788.53	3/4
1	1	3,936.47	1	3,697.43	1	3,423.91	1	3,150.40	1	2,876.89	1	2,603.37	1	2,329.86	1	2,056.35	1	1,782.83	1
1/4	1/4	3,935.52	1/4	3,691.73	1/4	3,418.22	1/4	3,144.70	1/4	2,871.19	1/4	2,597.68	1/4	2,324.16	1/4	2,050.65	1/4	1,777.14	1/4
1/2	1/2	3,934.58	1/2	3,688.03	1/2	3,412.52	1/2	3,139.00	1/2	2,865.49	1/2	2,591.98	1/2	2,318.46	1/2	2,044.95	1/2	1,771.44	1/2
3/4	3/4	3,933.63	3/4	3,680.33	3/4	3,406.82	3/4	3,133.31	3/4	2,859.79	3/4	2,586.28	3/4	2,312.77	3/4	2,039.25	3/4	1,765.74	3/4
2	2	3,932.68	2	3,674.64	2	3,401.12	2	3,127.61	2	2,854.09	2	2,580.58	2	2,307.07	2	2,033.55	2	1,760.04	2
1/4	1/4	3,929.83	1/4	3,668.94	1/4	3,395.42	1/4	3,121.91	1/4	2,848.40	1/4	2,574.88	1/4	2,301.37	1/4	2,027.86	1/4	1,754.34	1/4
1/2	1/2	3,926.98	1/2	3,663.24	1/2	3,389.73	1/2	3,116.21	1/2	2,842.70	1/2	2,569.18	1/2	2,022.16	1/2	2,022.16	1/2	1,748.64	1/2
3/4	3/4	3,924.13	3/4	3,657.54	3/4	3,384.03	3/4	3,110.51	3/4	2,837.00	3/4	2,563.49	3/4	2,289.97	3/4	2,016.46	3/4	1,742.95	3/4
3	3	3,921.29	3	3,651.84	3	3,378.33	3	3,104.82	3	2,831.30	3	2,557.79	3	2,284.27	3	2,010.76	3	1,737.25	3
1/4	1/4	3,916.54	1/4	3,646.14	1/4	3,372.63	1/4	3,099.12	1/4	2,825.60	1/4	2,552.09	1/4	2,278.58	1/4	2,005.06	1/4	1,731.55	1/4
1/2	1/2	3,911.79	1/2	3,640.45	1/2	3,368.93	1/2	3,093.42	1/2	2,819.91	1/2	2,546.39	1/2	2,272.88	1/2	1,999.36	1/2	1,726.85	1/2
3/4	3/4	3,907.05	3/4	3,634.75	3/4	3,361.23	3/4	3,087.72	3/4	2,814.21	3/4	2,540.69	3/4	2,267.18	3/4	1,993.67	3/4	1,720.15	3/4
4	4	3,902.30	4	3,629.05	4	3,355.54	4	3,082.02	4	2,808.51	4	2,535.00	4	2,261.48	4	1,987.97	4	1,714.45	4
1/4	1/4	3,896.85	1/4	3,623.35	1/4	3,349.84	1/4	3,076.32	1/4	2,802.81	1/4	2,529.30	1/4	2,255.78	1/4	1,982.27	1/4	1,708.76	1/4
1/2	1/2	3,891.00	1/2	3,617.65	1/2	3,344.14	1/2	3,070.63	1/2	2,797.11	1/2	2,523.60	1/2	2,250.09	1/2	1,976.57	1/2	1,703.06	1/2
3/4	3/4	3,885.36	3/4	3,611.96	3/4	3,338.44	3/4	3,064.93	3/4	2,791.41	3/4	2,517.90	3/4	2,244.39	3/4	1,970.87	3/4	1,697.36	3/4
5	5	3,879.71	5	3,606.26	5	3,332.74	5	3,059.23	5	2,785.72	5	2,512.20	5	2,238.69	5	1,965.18	5	1,691.66	5
1/4	1/4	3,874.02	1/4	3,600.56	1/4	3,327.05	1/4	3,053.53	1/4	2,780.02	1/4	2,506.50	1/4	2,232.99	1/4	1,959.48	1/4	1,685.96	1/4
1/2	1/2	3,868.34	1/2	3,594.86	1/2	3,321.35	1/2	3,047.83	1/2	2,774.32	1/2	2,500.81	1/2	2,227.29	1/2	1,953.78	1/2	1,680.27	1/2
3/4	3/4	3,862.66	3/4	3,589.16	3/4	3,315.65	3/4	3,042.14	3/4	2,768.62	3/4	2,495.11	3/4	2,221.59	3/4	1,948.08	3/4	1,674.57	3/4
6	6	3,856.97	6	3,583.46	6	3,309.95	6	3,036.44	6	2,762.92	6	2,489.41	6	2,215.90	6	1,942.38	6	1,668.87	6
1/4	1/4	3,851.28	1/4	3,577.77	1/4	3,304.25	1/4	3,030.74	1/4	2,757.23	1/4	2,483.71	1/4	2,210.20	1/4	1,936.68	1/4	1,663.17	1/4
1/2	1/2	3,845.58	1/2	3,572.07	1/2	3,298.55	1/2	3,025.04	1/2	2,751.53	1/2	2,478.01	1/2	2,204.50	1/2	1,930.99	1/2	1,657.47	1/2
3/4	3/4	3,839.88	3/4	3,566.37	3/4	3,292.86	3/4	3,019.34	3/4	2,745.83	3/4	2,472.32	3/4	2,198.80	3/4	1,925.29	3/4	1,651.77	3/4
7	7	3,834.19	7	3,560.67	7	3,287.16	7	3,013.64	7	2,740.13	7	2,466.62	7	2,193.10	7	1,919.59	7	1,646.08	7
1/4	1/4	3,828.49	1/4	3,554.97	1/4	3,281.46	1/4	3,007.95	1/4	2,734.43	1/4	2,460.92	1/4	2,187.41	1/4	1,913.89	1/4	1,640.38	1/4
1/2	1/2	3,822.79	1/2	3,549.28	1/2	3,275.76	1/2	3,002.25	1/2	2,728.73	1/2	2,455.22	1/2	2,181.71	1/2	1,908.19	1/2	1,634.68	1/2
3/4	3/4	3,817.09	3/4	3,543.58	3/4	3,270.06	3/4	2,996.55	3/4	2,723.04	3/4	2,449.52	3/4	2,176.01	3/4	1,902.50	3/4	1,628.98	3/4
8	8	3,811.39	8	3,537.88	8	3,264.37	8	2,990.85	8	2,717.34	8	2,443.82	8	2,170.31	8	1,896.80	8	1,623.28	8
1/4	1/4	3,805.69	1/4	3,532.18	1/4	3,258.67	1/4	2,985.15	1/4	2,711.64	1/4	2,438.13	1/4	2,164.61	1/4	1,891.10	1/4	1,617.59	1/4
1/2	1/2	3,800.00	1/2	3,526.48	1/2	3,252.97	1/2	2,979.46	1/2	2,705.94	1/2	2,432.43	1/2	2,158.91	1/2	1,885.40	1/2	1,611.89	1/2
3/4	3/4	3,794.30	3/4	3,520.78	3/4	3,247.27	3/4	2,973.76	3/4	2,700.24	3/4	2,426.73	3/4	2,153.22	3/4	1,879.70	3/4	1,606.19	3/4
9	9	3,788.60	9	3,515.09	9	3,241.57	9	2,968.06	9	2,694.55	9	2,421.03	9	2,147.52	9	1,874.00	9	1,600.49	9
1/4	1/4	3,782.90	1/4	3,509.39	1/4	3,235.87	1/4	2,962.36	1/4	2,688.85	1/4	2,415.33	1/4	2,141.82	1/4	1,868.31	1/4	1,594.79	1/4
1/2	1/2	3,777.20	1/2	3,503.69	1/2	3,230.18	1/2	2,956.68	1/2	2,683.15	1/2	2,409.84	1/2	2,136.12	1/2	1,862.61	1/2	1,589.08	1/2
3/4	3/4	3,771.51	3/4	3,497.99	3/4	3,224.48	3/4	2,950.96	3/4	2,677.45	3/4	2,403.94	3/4	2,130.42	3/4	1,856.91	3/4	1,583.40	3/4
10	10	3,765.81	10	3,492.29	10	3,218.78	10	2,945.27	10	2,671.75	10	2,398.24	10	2,124.73	10	1,851.21	10	1,577.70	10
1/4	1/4	3,760.11	1/4	3,486.60	1/4	3,213.08	1/4	2,939.57	1/4	2,666.05	1/4	2,392.54	1/4	2,119.03	1/4	1,845.51	1/4	1,572.00	1/4
1/2	1/2	3,754.41	1/2	3,480.90	1/2	3,207.38	1/2	2,933.87	1/2	2,660.36	1/2	2,386.84	1/2	2,113.33	1/2	1,839.82	1/2	1,566.30	1/2
3/4	3/4	3,748.71	3/4	3,475.20	3/4	3,201.69	3/4	2,928.17	3/4	2,654.66	3/4	2,381.14	3/4	2,107.63	3/4	1,834.12	3/4	1,560.60	3/4
11	11	3,743.01	11	3,469.50	11	3,195.99	11	2,922.47	11	2,648.96	11	2,375.45	11	2,101.93	11	1,828.42	11	1,554.91	11
1/4	1/4	3,737.32	1/4	3,463.80	1/4	3,190.29	1/4	2,916.78	1/4	2,643.26	1/4	2,369.75	1/4	2,098.23	1/4	1,822.72	1/4	1,549.21	1/4
1/2	1/2	3,731.62	1/2	3,458.10	1/2	3,184.59	1/2	2,911.08	1/2	2,637.56	1/2	2,364.05	1/2	2,090.54	1/2	1,817.02	1/2	1,543.51	1/2
3/4	3/4	3,725.92	3/4	3,452.41	3/4	3,178.89	3/4	2,905.38	3/4	2,631.87	3/4	2,358.35	3/4	2,084.84	3/4	1,811.32	3/4	1,537.81	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-00" 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 104"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,532.11	0	1,258.60	0	985.09	0	717.04	0	444.89	0	171.39	0	0	0	0	0	0	0	0
1/4	1,526.41	1/4	1,252.90	1/4	979.39	1/4	711.52	1/4	439.19	1/4	165.69	1/4							
1/2	1,520.72	1/2	1,247.20	1/2	973.69	1/2	705.99	1/2	433.49	1/2	159.99	1/2							
3/4	1,515.02	3/4	1,241.50	3/4	967.99	3/4	700.46	3/4	427.80	3/4	154.29	3/4							
1	1,509.32	1	1,235.81	1	962.29	1	694.94	1	422.10	1	148.59	1							
1 1/4	1,503.62	1 1/4	1,230.11	1 1/4	956.59	1 1/4	689.40	1 1/4	416.40	1 1/4	142.90	1 1/4							
1 1/2	1,497.92	1 1/2	1,224.41	1 1/2	950.90	1 1/2	683.87	1 1/2	410.70	1 1/2	137.20	1 1/2							
3/4	1,492.23	3/4	1,218.71	3/4	945.20	3/4	678.34	3/4	405.00	3/4	131.50	3/4							
2	1,486.53	2	1,213.01	2	939.50	2	672.81	2	399.31	2	125.80	2							
1 1/4	1,480.83	1 1/4	1,207.32	1 1/4	933.80	1 1/4	667.11	1 1/4	393.61	1 1/4	120.10	1 1/4							
1 1/2	1,475.13	1 1/2	1,201.62	1 1/2	928.10	1 1/2	661.41	1 1/2	387.91	1 1/2	114.41	1 1/2							
3/4	1,469.43	3/4	1,195.92	3/4	922.41	3/4	655.72	3/4	382.21	3/4	108.71	3/4							
3	1,463.73	3	1,190.22	3	916.71	3	650.02	3	376.51	3	103.01	3							
1 1/4	1,458.04	1 1/4	1,184.52	1 1/4	911.01	1 1/4	644.32	1 1/4	370.82	1 1/4	97.31	1 1/4							
1 1/2	1,452.34	1 1/2	1,178.82	1 1/2	905.31	1 1/2	638.62	1 1/2	365.12	1 1/2	91.62	1 1/2							
3/4	1,446.64	3/4	1,173.13	3/4	899.61	3/4	632.92	3/4	359.42	3/4	85.92	3/4							
4	1,440.94	4	1,167.43	4	893.91	4	627.23	4	353.72	4	80.23	4							
1 1/4	1,435.24	1 1/4	1,161.73	1 1/4	888.38	1 1/4	621.53	1 1/4	348.02	1 1/4	74.54	1 1/4							
1 1/2	1,429.54	1 1/2	1,156.03	1 1/2	882.85	1 1/2	615.83	1 1/2	342.33	1 1/2	68.86	1 1/2							
3/4	1,423.85	3/4	1,150.33	3/4	877.32	3/4	610.13	3/4	336.63	3/4	63.17	3/4							
5	1,418.15	5	1,144.63	5	871.79	5	604.43	5	330.93	5	57.49	5							
1 1/4	1,412.45	1 1/4	1,138.94	1 1/4	866.26	1 1/4	598.74	1 1/4	325.23	1 1/4	51.84	1 1/4							
1 1/2	1,406.75	1 1/2	1,133.24	1 1/2	860.74	1 1/2	593.04	1 1/2	319.53	1 1/2	46.19	1 1/2							
3/4	1,401.05	3/4	1,127.54	3/4	855.21	3/4	587.34	3/4	313.84	3/4	40.55	3/4							
6	1,395.36	6	1,121.84	6	849.68	6	581.64	6	308.14	6	34.90	6							
1 1/4	1,389.66	1 1/4	1,116.14	1 1/4	844.16	1 1/4	575.94	1 1/4	302.44	1 1/4	30.15	1 1/4							
1 1/2	1,383.96	1 1/2	1,110.45	1 1/2	838.63	1 1/2	570.25	1 1/2	296.74	1 1/2	25.41	1 1/2							
3/4	1,378.26	3/4	1,104.75	3/4	833.10	3/4	564.55	3/4	291.04	3/4	20.66	3/4							
7	1,372.56	7	1,099.05	7	827.58	7	558.85	7	285.35	7	15.91	7							
1 1/4	1,366.86	1 1/4	1,093.36	1 1/4	822.05	1 1/4	553.15	1 1/4	279.65	1 1/4	13.07	1 1/4							
1 1/2	1,361.17	1 1/2	1,087.65	1 1/2	816.52	1 1/2	547.45	1 1/2	273.95	1 1/2	10.22	1 1/2							
3/4	1,355.47	3/4	1,081.95	3/4	811.00	3/4	541.76	3/4	268.25	3/4	7.37	3/4							
8	1,349.77	8	1,076.26	8	805.47	8	536.06	8	262.55	8	4.52	8							
1 1/4	1,344.07	1 1/4	1,070.56	1 1/4	799.94	1 1/4	530.36	1 1/4	256.86	1 1/4	3.57	1 1/4							
1 1/2	1,338.37	1 1/2	1,064.86	1 1/2	794.42	1 1/2	524.66	1 1/2	251.16	1 1/2	2.62	1 1/2							
3/4	1,332.68	3/4	1,059.16	3/4	788.89	3/4	518.96	3/4	245.46	3/4	1.68	3/4							
9	1,326.98	9	1,053.46	9	783.36	9	513.27	9	239.76	9	0.73	9							
1 1/4	1,321.28	1 1/4	1,047.77	1 1/4	777.84	1 1/4	507.57	1 1/4	234.06	1 1/4		1 1/4							
1 1/2	1,315.58	1 1/2	1,042.07	1 1/2	772.31	1 1/2	501.87	1 1/2	228.37	1 1/2		1 1/2							
3/4	1,309.88	3/4	1,036.37	3/4	766.78	3/4	496.17	3/4	222.67	3/4		3/4							
10	1,304.18	10	1,030.67	10	761.26	10	490.47	10	216.97	10		10							
1 1/4	1,298.49	1 1/4	1,024.97	1 1/4	755.73	1 1/4	484.78	1 1/4	211.27	1 1/4		1 1/4							
1 1/2	1,292.79	1 1/2	1,019.27	1 1/2	750.20	1 1/2	479.08	1 1/2	205.57	1 1/2		1 1/2							
3/4	1,287.09	3/4	1,013.56	3/4	744.68	3/4	473.38	3/4	199.88	3/4		3/4							
11	1,281.39	11	1,007.88	11	739.15	11	467.68	11	194.18	11		11							
1 1/4	1,275.69	1 1/4	1,002.18	1 1/4	733.62	1 1/4	461.98	1 1/4	188.48	1 1/4		1 1/4							
1 1/2	1,270.00	1 1/2	996.48	1 1/2	728.10	1 1/2	456.29	1 1/2	182.78	1 1/2		1 1/2							
3/4	1,264.30	3/4	990.78	3/4	722.57	3/4	450.59	3/4	177.08	3/4		3/4							

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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



BARGE "E2MS 104"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 5/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	2 3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	6 1/4
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	7 1/4
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	8 3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	9 1/4
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	9 3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	10 1/4
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	10 3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	11 1/4
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	11 3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" 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 104"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 5/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2
0	1,371.43	0	1,126.25	0	881.07	0	636.31	0	391.21	0	146.05	0	0	0	0	0	0	0	0
1/4	1,366.32	1/4	1,121.14	1/4	875.96	1/4	631.22	1/4	386.11	1/4	140.94	1/4							
1/2	1,361.21	1/2	1,116.03	1/2	870.85	1/2	626.12	1/2	381.00	1/2	135.83	1/2							
3/4	1,356.10	3/4	1,110.92	3/4	865.74	3/4	621.03	3/4	375.89	3/4	130.72	3/4							
1	1,350.99	1	1,105.81	1	860.64	1	615.93	1	370.78	1	125.61	1							
1 1/4	1,345.89	1 1/4	1,100.71	1 1/4	855.53	1 1/4	610.83	1 1/4	365.68	1 1/4	120.51	1 1/4							
1 1/2	1,340.78	1 1/2	1,095.60	1 1/2	850.42	1 1/2	605.73	1 1/2	360.57	1 1/2	115.40	1 1/2							
3/4	1,335.67	3/4	1,090.49	3/4	845.31	3/4	600.63	3/4	355.46	3/4	110.29	3/4							
2	1,330.56	2	1,085.38	2	840.20	2	595.52	2	350.35	2	105.18	2							
2 1/4	1,325.45	2 1/4	1,080.28	2 1/4	835.10	2 1/4	590.42	2 1/4	345.25	2 1/4	100.08	2 1/4							
2 1/2	1,320.35	2 1/2	1,075.17	2 1/2	829.99	2 1/2	585.31	2 1/2	340.14	2 1/2	94.97	2 1/2							
3/4	1,315.24	3/4	1,070.06	3/4	824.88	3/4	580.20	3/4	335.03	3/4	89.86	3/4							
3	1,310.13	3	1,064.95	3	819.77	3	575.09	3	329.92	3	84.76	3							
3 1/4	1,305.02	3 1/4	1,059.84	3 1/4	814.66	3 1/4	569.98	3 1/4	324.81	3 1/4	79.65	3 1/4							
3 1/2	1,299.91	3 1/2	1,054.74	3 1/2	809.56	3 1/2	564.88	3 1/2	319.71	3 1/2	74.54	3 1/2							
4	1,294.81	4	1,049.63	4	804.45	4	559.77	4	314.60	4	69.44	4							
4 1/4	1,289.70	4 1/4	1,044.52	4 1/4	799.35	4 1/4	554.66	4 1/4	309.49	4 1/4	64.35	4 1/4							
4 1/2	1,284.59	4 1/2	1,039.41	4 1/2	794.25	4 1/2	549.55	4 1/2	304.38	4 1/2	59.25	4 1/2							
5	1,279.48	5	1,034.30	5	789.16	5	544.45	5	299.28	5	54.16	5							
5 1/4	1,274.38	5 1/4	1,029.20	5 1/4	784.06	5 1/4	539.34	5 1/4	294.17	5 1/4	49.08	5 1/4							
5 1/2	1,269.27	5 1/2	1,024.09	5 1/2	778.96	5 1/2	534.23	5 1/2	289.06	5 1/2	44.02	5 1/2							
6	1,264.16	6	1,018.98	6	773.87	6	529.12	6	283.95	6	38.95	6							
6 1/4	1,259.05	6 1/4	1,013.87	6 1/4	768.78	6 1/4	524.01	6 1/4	278.85	6 1/4	33.89	6 1/4							
6 1/2	1,253.94	6 1/2	1,008.76	6 1/2	763.68	6 1/2	518.91	6 1/2	273.74	6 1/2	28.73	6 1/2							
7	1,248.84	7	1,003.66	7	758.59	7	513.80	7	268.63	7	24.98	7							
7 1/4	1,243.73	7 1/4	998.55	7 1/4	753.49	7 1/4	508.69	7 1/4	263.52	7 1/4	20.72	7 1/4							
7 1/2	1,238.62	7 1/2	993.44	7 1/2	748.40	7 1/2	503.58	7 1/2	258.41	7 1/2	16.47	7 1/2							
8	1,233.51	8	988.33	8	743.30	8	498.48	8	253.31	8	13.06	8							
8 1/4	1,228.40	8 1/4	983.23	8 1/4	738.21	8 1/4	493.37	8 1/4	248.20	8 1/4	10.51	8 1/4							
8 1/2	1,223.30	8 1/2	978.12	8 1/2	733.11	8 1/2	488.26	8 1/2	243.09	8 1/2	7.96	8 1/2							
9	1,218.19	9	973.01	9	728.02	9	483.15	9	237.98	9	5.41	9							
9 1/4	1,213.08	9 1/4	967.90	9 1/4	722.92	9 1/4	478.05	9 1/4	232.88	9 1/4	3.70	9 1/4							
9 1/2	1,207.97	9 1/2	962.79	9 1/2	717.83	9 1/2	472.94	9 1/2	227.77	9 1/2	2.85	9 1/2							
10	1,202.86	10	957.69	10	712.73	10	467.83	10	222.66	10	2.00	10							
10 1/4	1,197.75	10 1/4	952.58	10 1/4	707.64	10 1/4	462.72	10 1/4	217.55	10 1/4	1.15	10 1/4							
10 1/2	1,192.65	10 1/2	947.47	10 1/2	702.54	10 1/2	457.61	10 1/2	212.45	10 1/2	0.73	10 1/2							
11	1,187.54	11	942.36	11	697.45	11	452.51	11	207.34	11		11							
11 1/4	1,182.43	11 1/4	937.25	11 1/4	692.35	11 1/4	447.40	11 1/4	202.23	11 1/4		11 1/4							
11 1/2	1,177.33	11 1/2	932.15	11 1/2	687.26	11 1/2	442.29	11 1/2	197.12	11 1/2		11 1/2							
12	1,172.22	12	927.04	12	682.17	12	437.18	12	192.01	12		12							
12 1/4	1,167.11	12 1/4	921.93	12 1/4	677.07	12 1/4	432.08	12 1/4	186.91	12 1/4		12 1/4							
12 1/2	1,162.00	12 1/2	916.82	12 1/2	671.98	12 1/2	426.97	12 1/2	181.80	12 1/2		12 1/2							
13	1,156.89	13	911.71	13	666.88	13	421.86	13	176.69	13		13							
13 1/4	1,151.79	13 1/4	906.61	13 1/4	661.79	13 1/4	416.75	13 1/4	171.58	13 1/4		13 1/4							
13 1/2	1,146.68	13 1/2	901.50	13 1/2	656.69	13 1/2	411.65	13 1/2	166.48	13 1/2		13 1/2							
14	1,141.57	14	896.39	14	651.60	14	406.54	14	161.37	14		14							
14 1/4	1,136.46	14 1/4	891.28	14 1/4	646.50	14 1/4	401.43	14 1/4	156.26	14 1/4		14 1/4							
14 1/2	1,131.35	14 1/2	886.18	14 1/2	641.41	14 1/2	396.32	14 1/2	151.15	14 1/2		14 1/2							

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 7/10/2019 JS
CALCULATED: 07/10/2019 CL
PRINTED: 07/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2019

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