BARGE "E2MS 103"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**
1 CENTER	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 3 CENTER IS 00-3/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8'

LENGTH BETWEEN DRAFT MARKS: 166'-09"

August 1, 2018

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

http://www.pmacorp.net

BARGE "E2MS 103"

1 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,312.20	0	3,095.84	0	2,879.47	0	2,663.12	0	2,416.60	0	2,164.80	0	1,913.00	0	1,661.91
1/4		1/4		1/4	3,307.69	1/4	3,091.33	1/4	2,874.96	1/4	2,658.63	1/4	2,411.35	1/4	2,159.55	1/4	1,907.75	1/4	1,656.67
1/2		1/2		1/2	3,303.19	1/2	3,086.82	1/2	2,870.46	1/2	2,654.14	1/2	2,406.10	1/2	2,154.31	1/2	1,902.51	1/2	1,651.42
3/4		3/4	3,492.26	3/4	3,298.68	3/4	3,082.31	3/4	2,865.95	3/4	2,649.64	3/4	2,400.86	3/4	2,149.06	3/4	1,897.26	3/4	1,646.18
1		1	3,491.39	1	3,294.17	1	3,077.81	1	2,861.44	1	2,645.15	1	2,395.61	1	2,143.81	1	1,892.02	1	1,640.94
1/4		1/4	3,490.51	1/4	3,289.66	1/4	3,073.30	1/4	2,856.93	1/4	2,640.66	1/4	2,390.37	1/4	2,138.57	1/4	1,886.77	1/4	1,635.69
1/2		1/2	3,489.64	1/2	3,285.16	1/2	3,068.79	1/2	2,852.43	1/2	2,636.17	1/2	2,385.12	1/2	2,133.32	1/2	1,881.52	1/2	1,630.45
3/4		3/4	3,488.76	3/4	3,280.65	3/4	3,064.28	3/4	2,847.92	3/4	2,631.67	3/4	2,379.88	3/4	2,128.08	3/4	1,876.28	3/4	1,625.21
2		2	3,486.13	2	3,276.14	2	3,059.78	2	2,843.41	2	2,626.43	2	2,374.63	2	2,122.83	2	1,871.05	2	1,619.96
1/4		1/4	3,483.50	1/4	3,271.63	1/4	3,055.27	1/4	2,838.90	1/4	2,621.18	1/4	2,369.38	1/4	2,117.59	1/4	1,865.82	1/4	1,614.72
1/2		1/2	3,480.87	1/2	3,267.12	1/2	3,050.76	1/2	2,834.40	1/2	2,615.94	1/2	2,364.14	1/2	2,112.34	1/2	1,860.59	1/2	1,609.48
3/4		3/4	3,478.24	3/4	3,262.62	3/4	3,046.25	3/4	2,829.89	3/4	2,610.69	3/4	2,358.89	3/4	2,107.09	3/4	1,855.37	3/4	1,604.24
3		3	3,473.86	3	3,258.11	3	3,041.74	3	2,825.38	3	2,605.44	3	2,353.65	3	2,101.85	3	1,850.14	3	1,598.99
1/4		1/4	3,469.48	1/4	3,253.60	1/4	3,037.24	1/4	2,820.87	1/4	2,600.20	1/4	2,348.40	1/4	2,096.60	1/4	1,844.91	1/4	1,593.75
1/2		1/2	3,465.10	1/2	3,249.09	1/2	3,032.73	1/2	2,816.36	1/2	2,594.95	1/2	2,343.15	1/2	2,091.36	1/2	1,839.68	1/2	1,588.51
3/4		3/4	3,460.72	3/4	3,244.59	3/4	3,028.22	3/4	2,811.86	3/4	2,589.71	3/4	2,337.91	3/4	2,086.11	3/4	1,834.45	3/4	1,583.26
4		4	3,456.26	4	3,240.08	4	3,023.71	4	2,807.35	4	2,584.46	4	2,332.66	4	2,080.86	4	1,829.23	4	1,578.02
1/4		1/4	3,451.80	1/4	3,235.57	1/4	3,019.21	1/4	2,802.84	1/4	2,579.22	1/4	2,327.42	1/4	2,075.62	1/4	1,824.00	1/4	1,572.78
1/2		1/2	3,447.33	1/2	3,231.06	1/2	3,014.70	1/2	2,798.33	1/2	2,573.97	1/2	2,322.17	1/2	2,070.37	1/2	1,818.77	1/2	1,567.54
3/4		3/4	3,442.87	3/4	3,226.56	3/4	3,010.19	3/4	2,793.83	3/4	2,568.72	3/4	2,316.93	3/4	2,065.13	3/4	1,813.54	3/4	1,562.29
5		5	3,438.38	5	3,222.05	5	3,005.68	5	2,789.32	5	2,563.48	5	2,311.68	5	2,059.88	5	1,808.31	5	1,557.05
1/4		1/4	3,433.88	1/4	3,217.54	1/4	3,001.18	1/4	2,784.81	1/4	2,558.23	1/4	2,306.43	1/4	2,054.64	1/4	1,803.09	1/4	1,551.81
1/2		1/2	3,429.39	1/2	3,213.03	1/2	2,996.67	1/2	2,780.30	1/2	2,552.99	1/2	2,301.19	1/2	2,049.39	1/2	1,797.86	1/2	1,546.56
3/4		3/4	3,424.90	3/4	3,208.53	3/4	2,992.16	3/4	2,775.80	3/4	2,547.74	3/4	2,295.94	3/4	2,044.14	3/4	1,792.63	3/4	1,541.32
6		6	3,420.39	6	3,204.02	6	2,987.65	6	2,771.29	6	2,542.50	6	2,290.70	6	2,038.90	6	1,787.40	6	1,536.08
1/4		1/4	3,415.88	1/4	3,199.51	1/4	2,983.15	1/4	2,766.78	1/4	2,537.25	1/4	2,285.45	1/4	2,033.65	1/4	1,782.17	1/4	1,530.84
1/2		1/2	3,411.37	1/2	3,195.00	1/2	2,978.64	1/2	2,762.27	1/2	2,532.00	1/2	2,280.21	1/2	2,028.41	1/2	1,776.94	1/2	1,525.59
3/4		3/4	3,406.86	3/4	3,190.50	3/4	2,974.13	3/4	2,757.77	3/4	2,526.76	3/4	2,274.96	3/4	2,023.16	3/4	1,771.72	3/4	1,520.35
7		7	3,402.35	7	3,185.99	7	2,969.62	7	2,753.26	7	2,521.51	7	2,269.71	7	2,017.92	7	1,766.49	7	1,515.11
1/4		1/4	3,397.85	1/4	3,181.48	1/4	2,965.12	1/4	2,748.75	1/4	2,516.27	1/4	2,264.47	1/4	2,012.67	1/4	1,761.26	1/4	1,509.86
1/2		1/2	3,393.34	1/2	3,176.97	1/2	2,960.61	1/2	2,744.24	1/2	2,511.02	1/2	2,259.22	1/2	2,007.42	1/2	1,756.03	1/2	1,504.62
3/4		3/4	3,388.83	3/4	3,172.47	3/4	2,956.10	3/4	2,739.74	3/4	2,505.77	3/4	2,253.98	3/4	2,002.18	3/4	1,750.80	3/4	1,499.38
8		8	3,384.32	8	3,167.96	8	2,951.59	8	2,735.23	8	2,500.53	8	2,248.73	8	1,996.93	8	1,745.58	8	1,494.13
1/4		1/4	3,379.81	1/4	3,163.45	1/4	2,947.09	1/4	2,730.72	1/4	2,495.28	1/4	2,243.48	1/4	1,991.69	1/4	1,740.35	1/4	1,488.89
1/2		1/2	3,375.31	1/2	3,158.94	1/2	2,942.58	1/2	2,726.21	1/2	2,490.04	1/2	2,238.24	1/2	1,986.44	1/2	1,735.12	1/2	1,483.65
3/4		3/4	3,370.80	3/4	3,154.43	3/4	2,938.07	3/4	2,721.71	3/4	2,484.79	3/4	2,232.99	3/4	1,981.19	3/4	1,729.89	3/4	1,478.40
9		9	3,366.29	9	3,149.93	9	2,933.56	9	2,717.20	9	2,479.55	9	2,227.75	9	1,975.95	9	1,724.66	9	1,473.16
1/4		1/4	3,361.78	1/4	3,145.42	1/4	2,929.05	1/4	2,712.69	1/4	2,474.30	1/4	2,222.50	1/4	1,970.70	1/4	1,719.44	1/4	1,467.91
1/2		1/2	3,357.28	1/2	3,140.91	1/2	2,924.55	1/2	2,708.18	1/2	2,469.05	1/2	2,217.26	1/2	1,965.46	1/2	1,714.21	1/2	1,462.67
3/4		3/4	3,352.77	3/4	3,136.40	3/4	2,920.04	3/4	2,703.67	3/4	2,463.81	3/4	2,212.01	3/4	1,960.21	3/4	1,708.98	3/4	1,457.42
10		10	3,348.26	10	3,131.90	10	2,915.53	10	2,699.17	10	2,458.56	10	2,206.76	10	1,954.97	10	1,703.75	10	1,452.18
1/4		1/4	3,343.75	1/4	3,127.39	1/4	2,911.02	1/4	2,694.66	1/4	2,453.32	1/4	2,201.52	1/4	1,949.72	1/4	1,698.52	1/4	1,446.94
1/2		1/2	3,339.25	1/2	3,122.88	1/2	2,906.52	1/2	2,690.15	1/2	2,448.07	1/2	2,196.27	1/2	1,944.47	1/2	1,693.30	1/2	1,441.69
3/4		3/4	3,334.74	3/4	3,118.37	3/4	2,902.01	3/4	2,685.64	3/4	2,442.83	3/4	2,191.03	3/4	1,939.23	3/4	1,688.07	3/4	1,436.45
11		11	3,330.23	11	3,113.87	11	2,897.50	11	2,681.14	11	2,437.58	11	2,185.78	11	1,933.98	11	1,682.84	11	1,431.20
1/4		1/4	3,325.72	1/4	3,109.36	1/4	2,892.99	1/4	2,676.63	1/4	2,432.33	1/4	2,180.54	1/4	1,928.74	1/4	1,677.61	1/4	1,425.96
1/2		1/2	3,321.22	1/2	3,104.85	1/2	2,888.49	1/2	2,672.12	1/2	2,427.09	1/2	2,175.29	1/2	1,923.49	1/2	1,672.38	1/2	1,420.71
3/4		3/4	3,316.71	3/4	3,100.34	3/4	2,883.98	3/4	2,667.61	3/4	2,421.84	3/4	2,170.04	3/4	1,918.25	3/4	1,667.15	3/4	1,415.47

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 103"

1 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,410.23	0	1,158.50	0	906.78	0	660.21	0	408.81	0	156.36	0		0		0		0	
1/4	1,404.98	1/4	1,153.26	1/4	901.54	1/4	655.13	1/4	403.55	1/4	151.10	1/4		1/4		1/4		1/4	
1/2	1,399.74	1/2	1,148.02	1/2	896.29	1/2	650.04	1/2	398.29	1/2	145.84	1/2		1/2		1/2		1/2	
3/4	1,394.49	3/4	1,142.77	3/4	891.05	3/4	644.95	3/4	393.03	3/4	140.58	3/4		3/4		3/4		3/4	
1	1,389.25	1	1,137.53	1	885.81	1	639.83	1	387.77	1	135.32	1		1		1		1	
1/4	1,384.01	1/4	1,132.28	1/4	880.56	1/4	634.70	1/4	382.51	1/4	130.06	1/4		1/4		1/4		1/4	
1/2	1,378.76	1/2	1,127.04	1/2	875.32	1/2	629.58	1/2	377.25	1/2	124.80	1/2		1/2		1/2		1/2	
3/4	1,373.52	3/4	1,121.80	3/4	870.07	3/4	624.45	3/4	372.00	3/4	119.54	3/4		3/4		3/4		3/4	
2	1,368.27	2	1,116.55	2	864.83	2	619.19	2	366.74	2	114.28	2		2		2		2	
1/4	1,363.03	1/4	1,111.31	1/4	859.59	1/4	613.93	1/4	361.48	1/4	109.02	1/4		1/4		1/4		1/4	
1/2	1,357.78	1/2	1,106.06	1/2	854.34	1/2	608.67	1/2	356.22	1/2	103.76	1/2		1/2		1/2		1/2	
3/4	1,352.54	3/4	1,100.82	3/4	849.10	3/4	603.41	3/4	350.96	3/4	98.50	3/4		3/4		3/4		3/4	
3	1,347.30	3	1,095.57	3	843.85	3	598.15	3	345.70	3	93.24	3		3		3		3	
1/4	1,342.05	1/4	1,090.33	1/4	838.61	1/4	592.89	1/4	340.44	1/4	87.99	1/4		1/4		1/4		1/4	
1/2	1,336.81	1/2	1,085.09	1/2	833.36	1/2	587.63	1/2	335.18	1/2	82.73	1/2		1/2		1/2		1/2	
3/4	1,331.56	3/4	1,079.84	3/4	828.12	3/4	582.38	3/4	329.92	3/4	77.47	3/4		3/4		3/4		3/4	
4	1,326.32	4	1,074.60	4	823.01	4	577.12	4	324.66	4	72.22	4		4		4		4	
1/4	1,321.08	1/4	1,069.35	1/4	817.90	1/4	571.86	1/4	319.40	1/4	66.98	1/4		1/4		1/4		1/4	
1/2	1,315.83	1/2	1,064.11	1/2	812.79	1/2	566.60	1/2	314.14	1/2	61.73	1/2		1/2		1/2		1/2	
3/4	1,310.59	3/4	1,058.86	3/4	807.68	3/4	561.34	3/4	308.88	3/4	56.48	3/4		3/4		3/4		3/4	
5	1,305.34	5	1,053.62	5	802.59	5	556.08	5	303.62	5	51.27	5		5		5		5	
1/4	1,300.10	1/4	1,048.38	1/4	797.50	1/4	550.82	1/4	298.36	1/4	46.06	1/4		1/4		1/4		1/4	
1/2	1,294.85	1/2	1,043.13	1/2	792.41	1/2	545.56	1/2	293.10	1/2	40.84	1/2		1/2		1/2		1/2	
3/4	1,289.61	3/4	1,037.89	3/4	787.33	3/4	540.30	3/4	287.84	3/4	35.63	3/4		3/4		3/4		3/4	
6	1,284.37	6	1,032.64	6	782.24	6	535.04	6	282.58	6	31.25	6		6		6		6	
1/4	1,279.12	1/4	1,027.40	1/4	777.15	1/4	529.78	1/4	277.32	1/4	26.87	1/4		1/4		1/4		1/4	
1/2	1,273.88	1/2	1,022.16	1/2	772.07	1/2	524.52	1/2	272.06	1/2	22.49	1/2		1/2		1/2		1/2	
3/4	1,268.63	3/4	1,016.91	3/4	766.98	3/4	519.26	3/4	266.81	3/4	18.11	3/4		3/4		3/4		3/4	
7	1,263.39	7	1,011.67	7	761.89	7	514.00	7	261.55	7	15.48	7		7		7		7	
1/4	1,258.14	1/4	1,006.42	1/4	756.80	1/4	508.74	1/4	256.29	1/4	12.85	1/4		1/4		1/4		1/4	
1/2	1,252.90	1/2	1,001.18	1/2	751.72	1/2	503.48	1/2	251.03	1/2	10.22	1/2		1/2		1/2		1/2	
3/4	1,247.66	3/4	995.93	3/4	746.63	3/4	498.22	3/4	245.77	3/4	7.59	3/4		3/4		3/4		3/4	
8	1,242.41	8	990.69	8	741.54	8	492.96	8	240.51	8	6.71	8		8		8		8	
1/4	1,237.17	1/4	985.45	1/4	736.46	1/4	487.70	1/4	235.25	1/4	5.84	1/4		1/4		1/4		1/4	
1/2	1,231.92	1/2	980.20	1/2	731.37	1/2	482.44	1/2	229.99	1/2	4.96	1/2		1/2		1/2		1/2	
3/4	1,226.68	3/4	974.96	3/4	726.28	3/4	477.19	3/4	224.73	3/4	4.09	3/4		3/4		3/4		3/4	
9	1,221.44	9	969.71	9	721.20	9	471.93	9	219.47	9		9		9		9		9	
1/4	1,216.19	1/4	964.47	1/4	716.12	1/4	466.67	1/4	214.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,210.95	1/2	959.23	1/2	711.04	1/2	461.41	1/2	208.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,205.70	3/4	953.98	3/4	705.97	3/4	456.15	3/4	203.69	3/4		3/4		3/4		3/4		3/4	
10	1,200.46	10	948.74	10	700.89	10	450.89	10	198.43	10		10		10		10		10	
1/4	1,195.21	1/4	943.49	1/4	695.81	1/4	445.63	1/4	193.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,189.97	1/2	938.25	1/2	690.73	1/2	440.37	1/2	187.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,184.73	3/4	933.00	3/4	685.65	3/4	435.11	3/4	182.65	3/4		3/4		3/4		3/4		3/4	
11	1,179.48	11	927.76	11	680.56	11	429.85	11	177.39	11		11		11		11		11	
1/4	1,174.24	1/4	922.52	1/4	675.47	1/4	424.59	1/4	172.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,168.99	1/2	917.27	1/2	670.39	1/2	419.33	1/2	166.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,163.75	3/4	912.03	3/4	665.30	3/4	414.07	3/4	161.62	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL
CALCULATED : 08/01/2018 CL
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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

BARGE "E2MS 103"

2 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,728.23	0	3,453.70	0	3,179.17	0	2,904.64	0	2,630.11	0	2,355.58	0	2,081.04	0	1,806.51
1/4		1/4		1/4	3,722.51	1/4	3,447.98	1/4	3,173.45	1/4	2,898.92	1/4	2,624.39	1/4	2,349.86	1/4	2,075.33	1/4	1,800.79
1/2		1/2		1/2	3,716.79	1/2	3,442.26	1/2	3,167.73	1/2	2,893.20	1/2	2,618.67	1/2	2,344.14	1/2	2,069.61	1/2	1,795.07
3/4		3/4	3,951.03	3/4	3,711.07	3/4	3,436.54	3/4	3,162.01	3/4	2,887.48	3/4	2,612.95	3/4	2,338.42	3/4	2,063.89	3/4	1,789.36
1		1	3,950.08	1	3,705.35	1	3,430.82	1	3,156.29	1	2,881.76	1	2,607.23	1	2,332.70	1	2,058.17	1	1,783.64
1/4		1/4	3,949.12	1/4	3,699.63	1/4	3,425.10	1/4	3,150.57	1/4	2,876.04	1/4	2,601.51	1/4	2,326.98	1/4	2,052.45	1/4	1,777.92
1/2		1/2	3,948.17	1/2	3,693.92	1/2	3,419.38	1/2	3,144.85	1/2	2,870.32	1/2	2,595.79	1/2	2,321.26	1/2	2,046.73	1/2	1,772.20
3/4		3/4	3,947.22	3/4	3,688.20	3/4	3,413.66	3/4	3,139.13	3/4	2,864.60	3/4	2,590.07	3/4	2,315.54	3/4	2,041.01	3/4	1,766.48
2		2	3,944.36	2	3,682.48	2	3,407.95	2	3,133.41	2	2,858.88	2	2,584.35	2	2,309.82	2	2,035.29	2	1,760.76
1/4		1/4	3,941.50	1/4	3,676.76	1/4	3,402.23	1/4	3,127.69	1/4	2,853.16	1/4	2,578.63	1/4	2,304.10	1/4	2,029.57	1/4	1,755.04
1/2		1/2	3,938.64	1/2	3,671.04	1/2	3,396.51	1/2	3,121.98	1/2	2,847.44	1/2	2,572.91	1/2	2,298.38	1/2	2,023.85	1/2	1,749.32
3/4		3/4	3,935.78	3/4	3,665.32	3/4	3,390.79	3/4	3,116.26	3/4	2,841.72	3/4	2,567.19	3/4	2,292.66	3/4	2,018.13	3/4	1,743.60
3		3	3,931.02	3	3,659.60	3	3,385.07	3	3,110.54	3	2,836.01	3	2,561.47	3	2,286.94	3	2,012.41	3	1,737.88
1/4		1/4	3,926.26	1/4	3,653.88	1/4	3,379.35	1/4	3,104.82	1/4	2,830.29	1/4	2,555.75	1/4	2,281.22	1/4	2,006.69	1/4	1,732.16
1/2		1/2	3,921.49	1/2	3,648.16	1/2	3,373.63	1/2	3,099.10	1/2	2,824.57	1/2	2,550.04	1/2	2,275.50	1/2	2,000.97	1/2	1,726.44
3/4		3/4	3,916.73	3/4	3,642.44	3/4	3,367.91	3/4	3,093.38	3/4	2,818.85	3/4	2,544.32	3/4	2,269.78	3/4	1,995.25	3/4	1,720.72
4		4	3,911.06	4	3,636.72	4	3,362.19	4	3,087.66	4	2,813.13	4	2,538.60	4	2,264.07	4	1,989.53	4	1,715.00
1/4		1/4	3,905.39	1/4	3,631.00	1/4	3,356.47	1/4	3,081.94	1/4	2,807.41	1/4	2,532.88	1/4	2,258.35	1/4	1,983.81	1/4	1,709.28
1/2		1/2	3,899.72	1/2	3,625.28	1/2	3,350.75	1/2	3,076.22	1/2	2,801.69	1/2	2,527.16	1/2	2,252.63	1/2	1,978.10	1/2	1,703.56
3/4		3/4	3,894.05	3/4	3,619.56	3/4	3,345.03	3/4	3,070.50	3/4	2,795.97	3/4	2,521.44	3/4	2,246.91	3/4	1,972.38	3/4	1,697.84
5		5	3,888.35	5	3,613.84	5	3,339.31	5	3,064.78	5	2,790.25	5	2,515.72	5	2,241.19	5	1,966.66	5	1,692.13
1/4		1/4	3,882.64	1/4	3,608.12	1/4	3,333.59	1/4	3,059.06	1/4	2,784.53	1/4	2,510.00	1/4	2,235.47	1/4	1,960.94	1/4	1,686.41
1/2		1/2	3,876.94	1/2	3,602.40	1/2	3,327.87	1/2	3,053.34	1/2	2,778.81	1/2	2,504.28	1/2	2,229.75	1/2	1,955.22	1/2	1,680.69
3/4		3/4	3,871.23	3/4	3,596.69	3/4	3,322.15	3/4	3,047.62	3/4	2,773.09	3/4	2,498.56	3/4	2,224.03	3/4	1,949.50	3/4	1,674.97
6		6	3,865.51	6	3,590.97	6	3,316.43	6	3,041.90	6	2,767.37	6	2,492.84	6	2,218.31	6	1,943.78	6	1,669.25
1/4		1/4	3,859.78	1/4	3,585.25	1/4	3,310.72	1/4	3,036.18	1/4	2,761.65	1/4	2,487.12	1/4	2,212.59	1/4	1,938.06	1/4	1,663.53
1/2		1/2	3,854.06	1/2	3,579.53	1/2	3,305.00	1/2	3,030.46	1/2	2,755.93	1/2	2,481.40	1/2	2,206.87	1/2	1,932.34	1/2	1,657.81
3/4		3/4	3,848.34	3/4	3,573.81	3/4	3,299.28	3/4	3,024.75	3/4	2,750.21	3/4	2,475.68	3/4	2,201.15	3/4	1,926.62	3/4	1,652.09
7		7	3,842.62	7	3,568.09	7	3,293.56	7	3,019.03	7	2,744.49	7	2,469.96	7	2,195.43	7	1,920.90	7	1,646.37
1/4		1/4	3,836.90	1/4	3,562.37	1/4	3,287.84	1/4	3,013.31	1/4	2,738.78	1/4	2,464.24	1/4	2,189.71	1/4	1,915.18	1/4	1,640.65
1/2		1/2	3,831.18	1/2	3,556.65	1/2	3,282.12	1/2	3,007.59	1/2	2,733.06	1/2	2,458.52	1/2	2,183.99	1/2	1,909.46	1/2	1,634.93
3/4		3/4	3,825.46	3/4	3,550.93	3/4	3,276.40	3/4	3,001.87	3/4	2,727.34	3/4	2,452.81	3/4	2,178.27	3/4	1,903.74	3/4	1,629.21
8		8	3,819.74	8	3,545.21	8	3,270.68	8	2,996.15	8	2,721.62	8	2,447.09	8	2,172.55	8	1,898.02	8	1,623.49
1/4		1/4	3,814.02	1/4	3,539.49	1/4	3,264.96	1/4	2,990.43	1/4	2,715.90	1/4	2,441.37	1/4	2,166.84	1/4	1,892.30	1/4	1,617.77
1/2		1/2	3,808.30	1/2	3,533.77	1/2	3,259.24	1/2	2,984.71	1/2	2,710.18	1/2	2,435.65	1/2	2,161.12	1/2	1,886.58	1/2	1,612.05
3/4		3/4	3,802.58	3/4	3,528.05	3/4	3,253.52	3/4	2,978.99	3/4	2,704.46	3/4	2,429.93	3/4	2,155.40	3/4	1,880.87	3/4	1,606.33
9		9	3,796.86	9	3,522.33	9	3,247.80	9	2,973.27	9	2,698.74	9	2,424.21	9	2,149.68	9	1,875.15	9	1,600.61
1/4		1/4	3,791.15	1/4	3,516.61	1/4	3,242.08	1/4	2,967.55	1/4	2,693.02	1/4	2,418.49	1/4	2,143.96	1/4	1,869.43	1/4	1,594.90
1/2		1/2	3,785.43	1/2	3,510.89	1/2	3,236.36	1/2	2,961.83	1/2	2,687.30	1/2	2,412.77	1/2	2,138.24	1/2	1,863.71	1/2	1,589.18
3/4		3/4	3,779.71	3/4	3,505.18	3/4	3,230.64	3/4	2,956.11	3/4	2,681.58	3/4	2,407.05	3/4	2,132.52	3/4	1,857.99	3/4	1,583.46
10		10	3,773.99	10	3,499.46	10	3,224.92	10	2,950.39	10	2,675.86	10	2,401.33	10	2,126.80	10	1,852.27	10	1,577.74
1/4		1/4	3,768.27	1/4	3,493.74	1/4	3,219.21	1/4	2,944.67	1/4	2,670.14	1/4	2,395.61	1/4	2,121.08	1/4	1,846.55	1/4	1,572.02
1/2		1/2	3,762.55	1/2	3,488.02	1/2	3,213.49	1/2	2,938.95	1/2	2,664.42	1/2	2,389.89	1/2	2,115.36	1/2	1,840.83	1/2	1,566.30
3/4		3/4	3,756.83	3/4	3,482.30	3/4	3,207.77	3/4	2,933.24	3/4	2,658.70	3/4	2,384.17	3/4	2,109.64	3/4	1,835.11	3/4	1,560.58
11		11	3,751.11	11	3,476.58	11	3,202.05	11	2,927.52	11	2,652.98	11	2,378.45	11	2,103.92	11	1,829.39	11	1,554.86
1/4		1/4	3,745.39	1/4	3,470.86	1/4	3,196.33	1/4	2,921.80	1/4	2,647.27	1/4	2,372.73	1/4	2,098.20	1/4	1,823.67	1/4	1,549.14
1/2		1/2	3,739.67	1/2	3,465.14	1/2	3,190.61	1/2	2,916.08	1/2	2,641.55	1/2	2,367.01	1/2	2,092.48	1/2	1,817.95	1/2	1,543.42
3/4		3/4	3,733.95	3/4	3,459.42	3/4	3,184.89	3/4	2,910.36	3/4	2,635.83	3/4	2,361.30	3/4	2,086.76	3/4	1,812.23	3/4	1,537.70

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 103"

2 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,531.98	0	1,257.45	0	982.92	0	713.71	0	440.72	0	166.20	0		0		0		0	
1/4	1,526.26	1/4	1,251.73	1/4	977.20	1/4	708.17	1/4	435.00	1/4	160.48	1/4		1/4		1/4		1/4	
1/2	1,520.54	1/2	1,246.01	1/2	971.48	1/2	702.62	1/2	429.28	1/2	154.76	1/2		1/2		1/2		1/2	
3/4	1,514.82	3/4	1,240.29	3/4	965.76	3/4	697.07	3/4	423.56	3/4	149.04	3/4		3/4		3/4		3/4	
1	1,509.10	1	1,234.57	1	960.04	1	691.52	1	417.85	1	143.32	1		1		1		1	
1/4	1,503.39	1/4	1,228.85	1/4	954.32	1/4	685.97	1/4	412.13	1/4	137.60	1/4		1/4		1/4		1/4	
1/2	1,497.67	1/2	1,223.13	1/2	948.60	1/2	680.42	1/2	406.41	1/2	131.89	1/2		1/2		1/2		1/2	
3/4	1,491.95	3/4	1,217.42	3/4	942.88	3/4	674.88	3/4	400.69	3/4	126.17	3/4		3/4		3/4		3/4	
2	1,486.23	2	1,211.70	2	937.16	2	669.24	2	394.97	2	120.45	2		2		2		2	
1/4	1,480.51	1/4	1,205.98	1/4	931.45	1/4	663.60	1/4	389.25	1/4	114.73	1/4		1/4		1/4		1/4	
1/2	1,474.79	1/2	1,200.26	1/2	925.73	1/2	657.97	1/2	383.53	1/2	109.01	1/2		1/2		1/2		1/2	
3/4	1,469.07	3/4	1,194.54	3/4	920.01	3/4	652.33	3/4	377.81	3/4	103.29	3/4		3/4		3/4		3/4	
3	1,463.35	3	1,188.82	3	914.29	3	646.61	3	372.09	3	97.57	3		3		3		3	
1/4	1,457.63	1/4	1,183.10	1/4	908.57	1/4	640.89	1/4	366.37	1/4	91.85	1/4		1/4		1/4		1/4	
1/2	1,451.91	1/2	1,177.38	1/2	902.85	1/2	635.18	1/2	360.65	1/2	86.14	1/2		1/2		1/2		1/2	
3/4	1,446.19	3/4	1,171.66	3/4	897.13	3/4	629.46	3/4	354.93	3/4	80.42	3/4		3/4		3/4		3/4	
4	1,440.47	4	1,165.94	4	891.49	4	623.74	4	349.22	4	74.72	4		4		4		4	
1/4	1,434.75	1/4	1,160.22	1/4	885.86	1/4	618.02	1/4	343.50	1/4	69.01	1/4		1/4		1/4		1/4	
1/2	1,429.03	1/2	1,154.50	1/2	880.22	1/2	612.30	1/2	337.78	1/2	63.31	1/2		1/2		1/2		1/2	
3/4	1,423.31	3/4	1,148.78	3/4	874.59	3/4	606.58	3/4	332.06	3/4	57.60	3/4		3/4		3/4		3/4	
5	1,417.59	5	1,143.06	5	869.04	5	600.86	5	326.34	5	51.93	5		5		5		5	
1/4	1,411.87	1/4	1,137.34	1/4	863.49	1/4	595.14	1/4	320.62	1/4	46.26	1/4		1/4		1/4		1/4	
1/2	1,406.16	1/2	1,131.62	1/2	857.94	1/2	589.42	1/2	314.90	1/2	40.59	1/2		1/2		1/2		1/2	
3/4	1,400.44	3/4	1,125.90	3/4	852.39	3/4	583.70	3/4	309.18	3/4	34.92	3/4		3/4		3/4		3/4	
6	1,394.72	6	1,120.19	6	846.84	6	577.98	6	303.46	6	30.16	6		6		6		6	
1/4	1,389.00	1/4	1,114.47	1/4	841.29	1/4	572.26	1/4	297.74	1/4	25.39	1/4		1/4		1/4		1/4	
1/2	1,383.28	1/2	1,108.75	1/2	835.75	1/2	566.54	1/2	292.02	1/2	20.63	1/2		1/2		1/2		1/2	
3/4	1,377.56	3/4	1,103.03	3/4	830.20	3/4	560.83	3/4	286.30	3/4	15.87	3/4		3/4		3/4		3/4	
7	1,371.84	7	1,097.31	7	824.65	7	555.11	7	280.58	7	13.01	7		7		7		7	
1/4	1,366.12	1/4	1,091.59	1/4	819.10	1/4	549.39	1/4	274.87	1/4	10.15	1/4		1/4		1/4		1/4	
1/2	1,360.40	1/2	1,085.87	1/2	813.56	1/2	543.67	1/2	269.15	1/2	7.29	1/2		1/2		1/2		1/2	
3/4	1,354.68	3/4	1,080.15	3/4	808.01	3/4	537.95	3/4	263.43	3/4	4.43	3/4		3/4		3/4		3/4	
8	1,348.96	8	1,074.43	8	802.46	8	532.23	8	257.71	8	3.48	8		8		8		8	
1/4	1,343.24	1/4	1,068.71	1/4	796.92	1/4	526.51	1/4	251.99	1/4	2.53	1/4		1/4		1/4		1/4	
1/2	1,337.52	1/2	1,062.99	1/2	791.37	1/2	520.79	1/2	246.27	1/2	1.58	1/2		1/2		1/2		1/2	
3/4	1,331.80	3/4	1,057.27	3/4	785.82	3/4	515.07	3/4	240.55	3/4	0.63	3/4		3/4		3/4		3/4	
9	1,326.08	9	1,051.55	9	780.28	9	509.35	9	234.83	9		9		9		9		9	
1/4	1,320.36	1/4	1,045.83	1/4	774.73	1/4	503.63	1/4	229.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,314.64	1/2	1,040.11	1/2	769.18	1/2	497.91	1/2	223.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,308.93	3/4	1,034.39	3/4	763.64	3/4	492.20	3/4	217.67	3/4		3/4		3/4		3/4		3/4	
10	1,303.21	10	1,028.67	10	758.09	10	486.48	10	211.95	10		10		10		10		10	
1/4	1,297.49	1/4	1,022.96	1/4	752.54	1/4	480.76	1/4	206.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,291.77	1/2	1,017.24	1/2	747.00	1/2	475.04	1/2	200.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,286.05	3/4	1,011.52	3/4	741.45	3/4	469.32	3/4	194.80	3/4		3/4		3/4		3/4		3/4	
11	1,280.33	11	1,005.80	11	735.90	11	463.60	11	189.08	11		11		11		11		11	
1/4	1,274.61	1/4	1,000.08	1/4	730.35	1/4	457.88	1/4	183.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,268.89	1/2	994.36	1/2	724.81	1/2	452.16	1/2	177.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,263.17	3/4	988.64	3/4	719.26	3/4	446.44	3/4	171.92	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL
CALCULATED : 08/01/2018 CL
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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

BARGE "E2MS 103"

3 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,287.82	0	3,046.12	0	2,804.43	0	2,562.73	0	2,321.04	0	2,079.35	0	1,837.65	0	1,595.96
1/4		1/4		1/4	3,282.78	1/4	3,041.09	1/4	2,799.39	1/4	2,557.70	1/4	2,316.00	1/4	2,074.31	1/4	1,832.62	1/4	1,590.92
1/2		1/2		1/2	3,277.75	1/2	3,036.05	1/2	2,794.36	1/2	2,552.66	1/2	2,310.97	1/2	2,069.28	1/2	1,827.58	1/2	1,585.89
3/4		3/4	3,483.91	3/4	3,272.71	3/4	3,031.02	3/4	2,789.32	3/4	2,547.63	3/4	2,305.93	3/4	2,064.24	3/4	1,822.55	3/4	1,580.85
1		1	3,483.07	1	3,267.68	1	3,025.98	1	2,784.29	1	2,542.59	1	2,300.90	1	2,059.20	1	1,817.51	1	1,575.82
1/4		1/4	3,482.23	1/4	3,262.64	1/4	3,020.95	1/4	2,779.25	1/4	2,537.56	1/4	2,295.86	1/4	2,054.17	1/4	1,812.47	1/4	1,570.78
1/2		1/2	3,481.40	1/2	3,257.61	1/2	3,015.91	1/2	2,774.22	1/2	2,532.52	1/2	2,290.83	1/2	2,049.13	1/2	1,807.44	1/2	1,565.75
3/4		3/4	3,480.56	3/4	3,252.57	3/4	3,010.88	3/4	2,769.18	3/4	2,527.49	3/4	2,285.79	3/4	2,044.10	3/4	1,802.40	3/4	1,560.71
2		2	3,478.04	2	3,247.54	2	3,005.84	2	2,764.15	2	2,522.45	2	2,280.76	2	2,039.06	2	1,797.37	2	1,555.67
1/4		1/4	3,475.52	1/4	3,242.50	1/4	3,000.81	1/4	2,759.11	1/4	2,517.42	1/4	2,275.72	1/4	2,034.03	1/4	1,792.33	1/4	1,550.64
1/2		1/2	3,473.01	1/2	3,237.46	1/2	2,995.77	1/2	2,754.08	1/2	2,512.38	1/2	2,270.69	1/2	2,028.99	1/2	1,787.30	1/2	1,545.60
3/4		3/4	3,470.49	3/4	3,232.43	3/4	2,990.74	3/4	2,749.04	3/4	2,507.35	3/4	2,265.65	3/4	2,023.96	3/4	1,782.26	3/4	1,540.57
3		3	3,466.30	3	3,227.39	3	2,985.70	3	2,744.01	3	2,502.31	3	2,260.62	3	2,018.92	3	1,777.23	3	1,535.53
1/4		1/4	3,462.10	1/4	3,222.36	1/4	2,980.66	1/4	2,738.97	1/4	2,497.28	1/4	2,255.58	1/4	2,013.89	1/4	1,772.19	1/4	1,530.50
1/2		1/2	3,457.91	1/2	3,217.32	1/2	2,975.63	1/2	2,733.93	1/2	2,492.24	1/2	2,250.55	1/2	2,008.85	1/2	1,767.16	1/2	1,525.46
3/4		3/4	3,453.72	3/4	3,212.29	3/4	2,970.59	3/4	2,728.90	3/4	2,487.21	3/4	2,245.51	3/4	2,003.82	3/4	1,762.12	3/4	1,520.43
4		4	3,448.72	4	3,207.25	4	2,965.56	4	2,723.86	4	2,482.17	4	2,240.48	4	1,998.78	4	1,757.09	4	1,515.39
1/4		1/4	3,443.73	1/4	3,202.22	1/4	2,960.52	1/4	2,718.83	1/4	2,477.13	1/4	2,235.44	1/4	1,993.75	1/4	1,752.05	1/4	1,510.36
1/2		1/2	3,438.74	1/2	3,197.18	1/2	2,955.49	1/2	2,713.79	1/2	2,472.10	1/2	2,230.40	1/2	1,988.71	1/2	1,747.02	1/2	1,505.32
3/4		3/4	3,433.75	3/4	3,192.15	3/4	2,950.45	3/4	2,708.76	3/4	2,467.06	3/4	2,225.37	3/4	1,983.68	3/4	1,741.98	3/4	1,500.29
5		5	3,428.73	5	3,187.11	5	2,945.42	5	2,703.72	5	2,462.03	5	2,220.33	5	1,978.64	5	1,736.95	5	1,495.25
1/4		1/4	3,423.70	1/4	3,182.08	1/4	2,940.38	1/4	2,698.69	1/4	2,456.99	1/4	2,215.30	1/4	1,973.60	1/4	1,731.91	1/4	1,490.22
1/2		1/2	3,418.68	1/2	3,177.04	1/2	2,935.35	1/2	2,693.65	1/2	2,451.96	1/2	2,210.26	1/2	1,968.57	1/2	1,726.87	1/2	1,485.18
3/4		3/4	3,413.66	3/4	3,172.01	3/4	2,930.31	3/4	2,688.62	3/4	2,446.92	3/4	2,205.23	3/4	1,963.53	3/4	1,721.84	3/4	1,480.15
6		6	3,408.63	6	3,166.97	6	2,925.28	6	2,683.58	6	2,441.89	6	2,200.19	6	1,958.50	6	1,716.80	6	1,475.11
1/4		1/4	3,403.61	1/4	3,161.94	1/4	2,920.24	1/4	2,678.55	1/4	2,436.85	1/4	2,195.16	1/4	1,953.46	1/4	1,711.77	1/4	1,470.07
1/2		1/2	3,398.58	1/2	3,156.90	1/2	2,915.21	1/2	2,673.51	1/2	2,431.82	1/2	2,190.12	1/2	1,948.43	1/2	1,706.73	1/2	1,465.04
3/4		3/4	3,393.56	3/4	3,151.86	3/4	2,910.17	3/4	2,668.48	3/4	2,426.78	3/4	2,185.09	3/4	1,943.39	3/4	1,701.70	3/4	1,460.00
7		7	3,388.52	7	3,146.83	7	2,905.14	7	2,663.44	7	2,421.75	7	2,180.05	7	1,938.36	7	1,696.66	7	1,454.97
1/4		1/4	3,383.49	1/4	3,141.79	1/4	2,900.10	1/4	2,658.41	1/4	2,416.71	1/4	2,175.02	1/4	1,933.32	1/4	1,691.63	1/4	1,449.93
1/2		1/2	3,378.45	1/2	3,136.76	1/2	2,895.06	1/2	2,653.37	1/2	2,411.68	1/2	2,169.98	1/2	1,928.29	1/2	1,686.59	1/2	1,444.90
3/4		3/4	3,373.42	3/4	3,131.72	3/4	2,890.03	3/4	2,648.33	3/4	2,406.64	3/4	2,164.95	3/4	1,923.25	3/4	1,681.56	3/4	1,439.86
8		8	3,368.38	8	3,126.69	8	2,884.99	8	2,643.30	8	2,401.61	8	2,159.91	8	1,918.22	8	1,676.52	8	1,434.83
1/4		1/4	3,363.35	1/4	3,121.65	1/4	2,879.96	1/4	2,638.26	1/4	2,396.57	1/4	2,154.88	1/4	1,913.18	1/4	1,671.49	1/4	1,429.79
1/2		1/2	3,358.31	1/2	3,116.62	1/2	2,874.92	1/2	2,633.23	1/2	2,391.53	1/2	2,149.84	1/2	1,908.15	1/2	1,666.45	1/2	1,424.76
3/4		3/4	3,353.28	3/4	3,111.58	3/4	2,869.89	3/4	2,628.19	3/4	2,386.50	3/4	2,144.80	3/4	1,903.11	3/4	1,661.42	3/4	1,419.72
9		9	3,348.24	9	3,106.55	9	2,864.85	9	2,623.16	9	2,381.46	9	2,139.77	9	1,898.08	9	1,656.38	9	1,414.69
1/4		1/4	3,343.21	1/4	3,101.51	1/4	2,859.82	1/4	2,618.12	1/4	2,376.43	1/4	2,134.73	1/4	1,893.04	1/4	1,651.35	1/4	1,409.65
1/2		1/2	3,338.17	1/2	3,096.48	1/2	2,854.78	1/2	2,613.09	1/2	2,371.39	1/2	2,129.70	1/2	1,888.00	1/2	1,646.31	1/2	1,404.62
3/4		3/4	3,333.14	3/4	3,091.44	3/4	2,849.75	3/4	2,608.05	3/4	2,366.36	3/4	2,124.66	3/4	1,882.97	3/4	1,641.27	3/4	1,399.58
10		10	3,328.10	10	3,086.41	10	2,844.71	10	2,603.02	10	2,361.32	10	2,119.63	10	1,877.93	10	1,636.24	10	1,394.55
1/4		1/4	3,323.06	1/4	3,081.37	1/4	2,839.68	1/4	2,597.98	1/4	2,356.29	1/4	2,114.59	1/4	1,872.90	1/4	1,631.20	1/4	1,389.51
1/2		1/2	3,318.03	1/2	3,076.34	1/2	2,834.64	1/2	2,592.95	1/2	2,351.25	1/2	2,109.56	1/2	1,867.86	1/2	1,626.17	1/2	1,384.47
3/4		3/4	3,312.99	3/4	3,071.30	3/4	2,829.61	3/4	2,587.91	3/4	2,346.22	3/4	2,104.52	3/4	1,862.83	3/4	1,621.13	3/4	1,379.44
11		11	3,307.96	11	3,066.26	11	2,824.57	11	2,582.88	11	2,341.18	11	2,099.49	11	1,857.79	11	1,616.10	11	1,374.40
1/4		1/4	3,302.92	1/4	3,061.23	1/4	2,819.53	1/4	2,577.84	1/4	2,336.15	1/4	2,094.45	1/4	1,852.76	1/4	1,611.06	1/4	1,369.37
1/2		1/2	3,297.89	1/2	3,056.19	1/2	2,814.50	1/2	2,572.81	1/2	2,331.11	1/2	2,089.42	1/2	1,847.72	1/2	1,606.03	1/2	1,364.33
3/4		3/4	3,292.85	3/4	3,051.16	3/4	2,809.46	3/4	2,567.77	3/4	2,326.08	3/4	2,084.38	3/4	1,842.69	3/4	1,600.99	3/4	1,359.30

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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

BARGE "E2MS 103"

3 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,354.26	0	1,112.57	0	870.87	0	629.64	0	388.07	0	146.39	0		0		0		0	
1/4	1,349.23	1/4	1,107.53	1/4	865.84	1/4	624.62	1/4	383.04	1/4	141.36	1/4		1/4		1/4		1/4	
1/2	1,344.19	1/2	1,102.50	1/2	860.80	1/2	619.60	1/2	378.00	1/2	136.32	1/2		1/2		1/2		1/2	
3/4	1,339.16	3/4	1,097.46	3/4	855.77	3/4	614.58	3/4	372.97	3/4	131.29	3/4		3/4		3/4		3/4	
1	1,334.12	1	1,092.43	1	850.73	1	609.56	1	367.93	1	126.25	1		1		1		1	
1/4	1,329.09	1/4	1,087.39	1/4	845.70	1/4	604.53	1/4	362.90	1/4	121.22	1/4		1/4		1/4		1/4	
1/2	1,324.05	1/2	1,082.36	1/2	840.66	1/2	599.51	1/2	357.86	1/2	116.18	1/2		1/2		1/2		1/2	
3/4	1,319.02	3/4	1,077.32	3/4	835.63	3/4	594.49	3/4	352.83	3/4	111.15	3/4		3/4		3/4		3/4	
2	1,313.98	2	1,072.29	2	830.59	2	589.46	2	347.79	2	106.11	2		2		2		2	
1/4	1,308.94	1/4	1,067.25	1/4	825.56	1/4	584.43	1/4	342.76	1/4	101.08	1/4		1/4		1/4		1/4	
1/2	1,303.91	1/2	1,062.22	1/2	820.52	1/2	579.40	1/2	337.72	1/2	96.04	1/2		1/2		1/2		1/2	
3/4	1,298.87	3/4	1,057.18	3/4	815.49	3/4	574.37	3/4	332.69	3/4	91.01	3/4		3/4		3/4		3/4	
3	1,293.84	3	1,052.14	3	810.45	3	569.33	3	327.65	3	85.97	3		3		3		3	
1/4	1,288.80	1/4	1,047.11	1/4	805.41	1/4	564.30	1/4	322.62	1/4	80.94	1/4		1/4		1/4		1/4	
1/2	1,283.77	1/2	1,042.07	1/2	800.38	1/2	559.26	1/2	317.58	1/2	75.91	1/2		1/2		1/2		1/2	
3/4	1,278.73	3/4	1,037.04	3/4	795.34	3/4	554.23	3/4	312.55	3/4	70.87	3/4		3/4		3/4		3/4	
4	1,273.70	4	1,032.00	4	790.31	4	549.19	4	307.51	4	65.85	4		4		4		4	
1/4	1,268.66	1/4	1,026.97	1/4	785.28	1/4	544.16	1/4	302.48	1/4	60.83	1/4		1/4		1/4		1/4	
1/2	1,263.63	1/2	1,021.93	1/2	780.25	1/2	539.12	1/2	297.44	1/2	55.81	1/2		1/2		1/2		1/2	
3/4	1,258.59	3/4	1,016.90	3/4	775.22	3/4	534.09	3/4	292.41	3/4	50.78	3/4		3/4		3/4		3/4	
5	1,253.56	5	1,011.86	5	770.20	5	529.05	5	287.37	5	45.79	5		5		5		5	
1/4	1,248.52	1/4	1,006.83	1/4	765.18	1/4	524.02	1/4	282.34	1/4	40.80	1/4		1/4		1/4		1/4	
1/2	1,243.49	1/2	1,001.79	1/2	760.15	1/2	518.98	1/2	277.30	1/2	35.81	1/2		1/2		1/2		1/2	
3/4	1,238.45	3/4	996.76	3/4	755.13	3/4	513.95	3/4	272.27	3/4	30.82	3/4		3/4		3/4		3/4	
6	1,233.42	6	991.72	6	750.11	6	508.91	6	267.23	6	26.62	6		6		6		6	
1/4	1,228.38	1/4	986.69	1/4	745.09	1/4	503.88	1/4	262.20	1/4	22.43	1/4		1/4		1/4		1/4	
1/2	1,223.34	1/2	981.65	1/2	740.07	1/2	498.84	1/2	257.16	1/2	18.24	1/2		1/2		1/2		1/2	
3/4	1,218.31	3/4	976.62	3/4	735.05	3/4	493.81	3/4	252.13	3/4	14.04	3/4		3/4		3/4		3/4	
7	1,213.27	7	971.58	7	730.03	7	488.77	7	247.09	7	11.53	7		7		7		7	
1/4	1,208.24	1/4	966.54	1/4	725.01	1/4	483.74	1/4	242.06	1/4	9.01	1/4		1/4		1/4		1/4	
1/2	1,203.20	1/2	961.51	1/2	719.99	1/2	478.70	1/2	237.02	1/2	6.49	1/2		1/2		1/2		1/2	
3/4	1,198.17	3/4	956.47	3/4	714.97	3/4	473.67	3/4	231.99	3/4	3.98	3/4		3/4		3/4		3/4	
8	1,193.13	8	951.44	8	709.95	8	468.63	8	226.95	8	3.14	8		8		8		8	
1/4	1,188.10	1/4	946.40	1/4	704.93	1/4	463.60	1/4	221.92	1/4	2.30	1/4		1/4		1/4		1/4	
1/2	1,183.06	1/2	941.37	1/2	699.91	1/2	458.56	1/2	216.88	1/2	1.46	1/2		1/2		1/2		1/2	
3/4	1,178.03	3/4	936.33	3/4	694.89	3/4	453.53	3/4	211.85	3/4	0.63	3/4		3/4		3/4		3/4	
9	1,172.99	9	931.30	9	689.87	9	448.49	9	206.81	9		9		9		9		9	
1/4	1,167.96	1/4	926.26	1/4	684.85	1/4	443.46	1/4	201.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,162.92	1/2	921.23	1/2	679.84	1/2	438.42	1/2	196.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,157.89	3/4	916.19	3/4	674.82	3/4	433.39	3/4	191.71	3/4		3/4		3/4		3/4		3/4	
10	1,152.85	10	911.16	10	669.80	10	428.35	10	186.67	10		10		10		10		10	
1/4	1,147.82	1/4	906.12	1/4	664.78	1/4	423.32	1/4	181.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,142.78	1/2	901.09	1/2	659.76	1/2	418.28	1/2	176.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,137.74	3/4	896.05	3/4	654.74	3/4	413.25	3/4	171.57	3/4		3/4		3/4		3/4		3/4	
11	1,132.71	11	891.01	11	649.72	11	408.21	11	166.53	11		11		11		11		11	
1/4	1,127.67	1/4	885.98	1/4	644.70	1/4	403.18	1/4	161.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,122.64	1/2	880.94	1/2	639.68	1/2	398.14	1/2	156.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,117.60	3/4	875.91	3/4	634.66	3/4	393.11	3/4	151.43	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL
CALCULATED : 08/01/2018 CL
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2018

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