



BARGE "EMS 501"

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 PORT	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-1/2	01-1/2	- 02-0/8	02-0/8	- 02-3/8	02-3/8
1 STBD	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-0/8	02-0/8	- 02-3/8	02-3/8
2 PORT	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-1/2	01-1/2	- 01-7/8	01-7/8	- 02-1/4	02-1/4
2 STBD	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-1/2	01-1/2	- 01-7/8	01-7/8	- 02-1/4	02-1/4
3 PORT	- 00-3/4	00-3/4	- 01-1/2	01-1/2	- 02-1/8	02-1/8	- 02-7/8	02-7/8	- 03-5/8	03-5/8	- 04-3/8	04-3/8
3 STBD	- 00-3/4	00-3/4	- 01-1/2	01-1/2	- 02-1/8	02-1/8	- 02-7/8	02-7/8	- 03-5/8	03-5/8	- 04-3/8	04-3/8

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

LENGTH BETWEEN DRAFT MARKS: 245'-00"

November 23, 2016

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 501"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	4.23	0	299.84	0	646.70	0	1,005.75	0	1,365.09	0	1,724.43	0	2,083.77	0	2,443.11	0	2,802.46	0	3,161.80
1/4	8.04	1/4	306.69	1/4	654.17	1/4	1,013.23	1/4	1,372.57	1/4	1,731.92	1/4	2,091.26	1/4	2,450.60	1/4	2,809.94	1/4	3,169.29
1/2	11.84	1/2	313.53	1/2	661.65	1/2	1,020.72	1/2	1,380.06	1/2	1,739.40	1/2	2,098.75	1/2	2,458.09	1/2	2,817.43	1/2	3,176.77
3/4	15.65	3/4	320.38	3/4	669.12	3/4	1,028.20	3/4	1,387.55	3/4	1,746.89	3/4	2,106.23	3/4	2,465.57	3/4	2,824.92	3/4	3,184.26
1	19.46	1	327.23	1	676.59	1	1,035.69	1	1,395.03	1	1,754.38	1	2,113.72	1	2,473.06	1	2,832.40	1	3,191.74
1/4	25.21	1/4	334.15	1/4	684.06	1/4	1,043.18	1/4	1,402.52	1/4	1,761.86	1/4	2,121.20	1/4	2,480.55	1/4	2,839.89	1/4	3,199.23
1/2	30.96	1/2	341.07	1/2	691.53	1/2	1,050.66	1/2	1,410.01	1/2	1,769.35	1/2	2,128.69	1/2	2,488.03	1/2	2,847.38	1/2	3,206.72
3/4	36.72	3/4	348.00	3/4	699.00	3/4	1,058.15	3/4	1,417.49	3/4	1,776.83	3/4	2,136.18	3/4	2,495.52	3/4	2,854.86	3/4	3,214.20
2	42.47	2	354.92	2	706.47	2	1,065.64	2	1,424.98	2	1,784.32	2	2,143.66	2	2,503.01	2	2,862.35	2	3,221.69
1/4	48.57	1/4	361.92	1/4	713.94	1/4	1,073.12	1/4	1,432.46	1/4	1,791.81	1/4	2,151.15	1/4	2,510.49	1/4	2,869.83	1/4	3,229.18
1/2	54.66	1/2	368.91	1/2	721.42	1/2	1,080.61	1/2	1,439.95	1/2	1,799.29	1/2	2,158.64	1/2	2,517.98	1/2	2,877.32	1/2	3,236.66
3/4	60.76	3/4	375.91	3/4	728.89	3/4	1,088.09	3/4	1,447.44	3/4	1,806.78	3/4	2,166.12	3/4	2,525.46	3/4	2,884.81	3/4	3,244.15
3	66.86	3	382.91	3	736.36	3	1,095.58	3	1,454.92	3	1,814.27	3	2,173.61	3	2,532.95	3	2,892.29	3	3,251.64
1/4	73.03	1/4	389.98	1/4	743.83	1/4	1,103.07	1/4	1,462.41	1/4	1,821.75	1/4	2,181.09	1/4	2,540.44	1/4	2,899.78	1/4	3,259.12
1/2	79.20	1/2	397.06	1/2	751.30	1/2	1,110.55	1/2	1,469.90	1/2	1,829.24	1/2	2,188.58	1/2	2,547.92	1/2	2,907.27	1/2	3,266.61
3/4	85.37	3/4	404.13	3/4	758.77	3/4	1,118.04	3/4	1,477.38	3/4	1,836.72	3/4	2,196.07	3/4	2,555.41	3/4	2,914.75	3/4	3,274.09
4	91.54	4	411.20	4	766.24	4	1,125.53	4	1,484.87	4	1,844.21	4	2,203.55	4	2,562.90	4	2,922.24	4	3,281.58
1/4	97.79	1/4	418.35	1/4	773.72	1/4	1,133.01	1/4	1,492.35	1/4	1,851.70	1/4	2,211.04	1/4	2,570.38	1/4	2,929.72	1/4	3,289.07
1/2	104.03	1/2	425.50	1/2	781.19	1/2	1,140.50	1/2	1,499.84	1/2	1,859.18	1/2	2,218.53	1/2	2,577.87	1/2	2,937.21	1/2	3,296.55
3/4	110.28	3/4	432.64	3/4	788.66	3/4	1,147.99	3/4	1,507.33	3/4	1,866.67	3/4	2,226.01	3/4	2,585.35	3/4	2,944.70	3/4	3,304.04
5	116.53	5	439.79	5	796.13	5	1,155.47	5	1,514.81	5	1,874.16	5	2,233.50	5	2,592.84	5	2,952.18	5	3,311.53
1/4	122.85	1/4	447.02	1/4	803.62	1/4	1,162.96	1/4	1,522.30	1/4	1,881.64	1/4	2,240.98	1/4	2,600.33	1/4	2,959.67	1/4	3,319.01
1/2	129.17	1/2	454.24	1/2	811.10	1/2	1,170.44	1/2	1,529.79	1/2	1,889.13	1/2	2,248.47	1/2	2,607.81	1/2	2,967.16	1/2	3,326.50
3/4	135.49	3/4	461.46	3/4	818.59	3/4	1,177.93	3/4	1,537.27	3/4	1,896.62	3/4	2,255.96	3/4	2,615.30	3/4	2,974.64	3/4	3,333.98
6	141.81	6	468.69	6	826.07	6	1,185.42	6	1,544.76	6	1,904.10	6	2,263.44	6	2,622.79	6	2,982.13	6	3,341.47
1/4	148.21	1/4	475.98	1/4	833.56	1/4	1,192.90	1/4	1,552.25	1/4	1,911.59	1/4	2,270.93	1/4	2,630.27	1/4	2,989.61	1/4	3,348.96
1/2	154.61	1/2	483.28	1/2	841.05	1/2	1,200.39	1/2	1,559.73	1/2	1,919.07	1/2	2,278.42	1/2	2,637.76	1/2	2,997.10	1/2	3,356.44
3/4	161.00	3/4	490.58	3/4	848.53	3/4	1,207.88	3/4	1,567.22	3/4	1,926.56	3/4	2,285.90	3/4	2,645.25	3/4	3,004.59	3/4	3,363.93
7	167.40	7	497.88	7	856.02	7	1,215.36	7	1,574.70	7	1,934.05	7	2,293.39	7	2,652.73	7	3,012.07	7	3,371.42
1/4	173.87	1/4	505.24	1/4	863.51	1/4	1,222.85	1/4	1,582.19	1/4	1,941.53	1/4	2,300.88	1/4	2,660.22	1/4	3,019.56	1/4	3,378.90
1/2	180.34	1/2	512.60	1/2	870.99	1/2	1,230.33	1/2	1,589.68	1/2	1,949.02	1/2	2,308.36	1/2	2,667.70	1/2	3,027.05	1/2	3,386.39
3/4	186.81	3/4	519.95	3/4	878.48	3/4	1,237.82	3/4	1,597.16	3/4	1,956.51	3/4	2,315.85	3/4	2,675.19	3/4	3,034.53	3/4	3,393.88
8	193.29	8	527.31	8	885.96	8	1,245.31	8	1,604.65	8	1,963.99	8	2,323.33	8	2,682.68	8	3,042.02	8	3,401.36
1/4	199.83	1/4	534.75	1/4	893.45	1/4	1,252.79	1/4	1,612.14	1/4	1,971.48	1/4	2,330.82	1/4	2,690.16	1/4	3,049.51	1/4	3,408.85
1/2	206.38	1/2	542.18	1/2	900.94	1/2	1,260.28	1/2	1,619.62	1/2	1,978.96	1/2	2,338.31	1/2	2,697.65	1/2	3,056.99	1/2	3,416.33
3/4	212.93	3/4	549.61	3/4	908.42	3/4	1,267.77	3/4	1,627.11	3/4	1,986.45	3/4	2,345.79	3/4	2,705.14	3/4	3,064.48	3/4	3,423.82
9	219.47	9	557.05	9	915.91	9	1,275.25	9	1,634.59	9	1,993.94	9	2,353.28	9	2,712.62	9	3,071.96	9	3,431.31
1/4	226.10	1/4	564.52	1/4	923.40	1/4	1,282.74	1/4	1,642.08	1/4	2,001.42	1/4	2,360.77	1/4	2,720.11	1/4	3,079.45	1/4	3,438.79
1/2	232.72	1/2	571.99	1/2	930.88	1/2	1,290.22	1/2	1,649.57	1/2	2,008.91	1/2	2,368.25	1/2	2,727.59	1/2	3,086.94	1/2	3,446.28
3/4	239.34	3/4	579.46	3/4	938.37	3/4	1,297.71	3/4	1,657.05	3/4	2,016.40	3/4	2,375.74	3/4	2,735.08	3/4	3,094.42	3/4	3,453.77
10	245.96	10	586.93	10	945.85	10	1,305.20	10	1,664.54	10	2,023.88	10	2,383.22	10	2,742.57	10	3,101.91	10	3,461.25
1/4	252.66	1/4	594.40	1/4	953.34	1/4	1,312.68	1/4	1,672.03	1/4	2,031.37	1/4	2,390.71	1/4	2,750.05	1/4	3,109.40	1/4	3,468.73
1/2	259.36	1/2	601.88	1/2	960.83	1/2	1,320.17	1/2	1,679.51	1/2	2,038.85	1/2	2,398.20	1/2	2,757.54	1/2	3,116.88	1/2	3,476.20
3/4	266.05	3/4	609.35	3/4	968.31	3/4	1,327.66	3/4	1,687.00	3/4	2,046.34	3/4	2,405.68	3/4	2,765.03	3/4	3,124.37	3/4	3,483.67
11	272.75	11	616.82	11	975.80	11	1,335.14	11	1,694.48	11	2,053.83	11	2,413.17	11	2,772.51	11	3,131.85	11	3,491.15
1/4	279.52	1/4	624.29	1/4	983.29	1/4	1,342.63	1/4	1,701.97	1/4	2,061.31	1/4	2,420.66	1/4	2,780.00	1/4	3,139.34	1/4	3,498.58
1/2	286.29	1/2	631.76	1/2	990.77	1/2	1,350.12	1/2	1,709.46	1/2	2,068.80	1/2	2,428.14	1/2	2,787.48	1/2	3,146.83	1/2	3,506.02
3/4	293.07	3/4	639.23	3/4	998.26	3/4	1,357.60	3/4	1,716.94	3/4	2,076.29	3/4	2,435.63	3/4	2,794.97	3/4	3,154.31	3/4	3,513.45

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 501"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,520.89	0	3,867.02	0	4,192.69	0	4,498.66	0		0		0		0		0		0	
1/4	3,528.29	1/4	3,874.00	1/4	4,199.26	1/4	4,504.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,535.69	1/2	3,880.97	1/2	4,205.82	1/2	4,510.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,543.09	3/4	3,887.94	3/4	4,212.38	3/4	4,517.11	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,550.49	1	3,894.91	1	4,218.94	1	4,523.26	1		1		1		1		1		1	
1/4	3,557.86	1/4	3,901.85	1/4	4,225.47	1/4	4,529.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,565.22	1/2	3,908.79	1/2	4,232.00	1/2	4,535.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,572.59	3/4	3,915.73	3/4	4,238.53	3/4	4,541.62	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,579.96	2	3,922.67	2	4,245.06	2	4,547.73	2		2		2		2		2		2	
1/4	3,587.29	1/4	3,929.57	1/4	4,251.55	1/4	4,553.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,594.62	1/2	3,936.48	1/2	4,258.04	1/2	4,559.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,601.95	3/4	3,943.38	3/4	4,264.54	3/4	4,565.98	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,609.28	3	3,950.29	3	4,271.03	3	4,572.07	3		3		3		3		3		3	
1/4	3,616.58	1/4	3,957.16	1/4	4,277.49	1/4	4,578.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,623.88	1/2	3,964.03	1/2	4,283.95	1/2	4,584.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,631.18	3/4	3,970.90	3/4	4,290.41	3/4	4,590.21	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,638.48	4	3,977.77	4	4,296.87	4	4,596.26	4		4		4		4		4		4	
1/4	3,645.74	1/4	3,984.61	1/4	4,303.30	1/4	4,603.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,653.01	1/2	3,991.44	1/2	4,309.72	1/2	4,611.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,660.27	3/4	3,998.28	3/4	4,316.15	3/4	4,618.67	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,667.53	5	4,005.11	5	4,322.57	5	4,626.14	5		5		5		5		5		5	
1/4	3,674.76	1/4	4,011.92	1/4	4,328.96	1/4	4,633.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.99	1/2	4,018.72	1/2	4,335.36	1/2	4,641.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.22	3/4	4,025.52	3/4	4,341.75	3/4	4,648.55	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,696.45	6	4,032.32	6	4,348.14	6	4,656.02	6		6		6		6		6		6	
1/4	3,703.65	1/4	4,039.09	1/4	4,354.50	1/4	4,663.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.84	1/2	4,045.86	1/2	4,360.85	1/2	4,670.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,718.04	3/4	4,052.62	3/4	4,367.21	3/4	4,678.42	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,725.23	7	4,059.39	7	4,373.57	7	4,685.89	7		7		7		7		7		7	
1/4	3,732.40	1/4	4,066.13	1/4	4,379.89	1/4	4,693.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,739.56	1/2	4,072.86	1/2	4,386.21	1/2	4,700.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.72	3/4	4,079.59	3/4	4,392.54	3/4	4,707.82	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,753.88	8	4,086.33	8	4,398.86	8	4,715.12	8		8		8		8		8		8	
1/4	3,761.01	1/4	4,093.03	1/4	4,405.15	1/4	4,721.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.13	1/2	4,099.72	1/2	4,411.44	1/2	4,728.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.26	3/4	4,106.42	3/4	4,417.72	3/4	4,735.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,782.39	9	4,113.12	9	4,424.01	9	4,741.64	9		9		9		9		9		9	
1/4	3,789.48	1/4	4,119.79	1/4	4,430.27	1/4	4,746.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,796.57	1/2	4,126.45	1/2	4,436.52	1/2	4,752.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,803.67	3/4	4,133.12	3/4	4,442.78	3/4	4,757.44	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.76	10	4,139.78	10	4,449.03	10	4,762.71	10		10		10		10		10		10	
1/4	3,817.82	1/4	4,146.41	1/4	4,455.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,824.88	1/2	4,153.05	1/2	4,461.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,831.94	3/4	4,159.68	3/4	4,467.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,838.99	11	4,166.31	11	4,473.91	11		11		11		11		11		11		11	
1/4	3,846.00	1/4	4,172.90	1/4	4,480.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.01	1/2	4,179.50	1/2	4,486.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.02	3/4	4,186.10	3/4	4,492.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 501"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	4.23	0	299.98	0	647.02	0	1,005.68	0	1,364.64	0	1,724.16	0	2,083.68	0	2,443.20	0	2,802.72	0	3,162.24
1/4	8.04	1/4	306.83	1/4	654.49	1/4	1,013.15	1/4	1,372.13	1/4	1,731.65	1/4	2,091.17	1/4	2,450.69	1/4	2,810.21	1/4	3,169.73
1/2	11.85	1/2	313.69	1/2	661.97	1/2	1,020.61	1/2	1,379.62	1/2	1,739.14	1/2	2,098.66	1/2	2,458.18	1/2	2,817.70	1/2	3,177.22
3/4	15.66	3/4	320.54	3/4	669.44	3/4	1,028.08	3/4	1,387.11	3/4	1,746.63	3/4	2,106.15	3/4	2,465.67	3/4	2,825.19	3/4	3,184.71
1	19.47	1	327.39	1	676.92	1	1,035.55	1	1,394.60	1	1,754.12	1	2,113.64	1	2,473.16	1	2,832.68	1	3,192.20
1/4	25.22	1/4	334.31	1/4	684.39	1/4	1,043.01	1/4	1,402.09	1/4	1,761.61	1/4	2,121.13	1/4	2,480.65	1/4	2,840.17	1/4	3,199.69
1/2	30.98	1/2	341.24	1/2	691.87	1/2	1,050.48	1/2	1,409.58	1/2	1,769.10	1/2	2,128.62	1/2	2,488.14	1/2	2,847.66	1/2	3,207.18
3/4	36.74	3/4	348.17	3/4	699.34	3/4	1,057.95	3/4	1,417.07	3/4	1,776.59	3/4	2,136.11	3/4	2,495.63	3/4	2,855.15	3/4	3,214.67
2	42.49	2	355.09	2	706.81	2	1,065.41	2	1,424.56	2	1,784.08	2	2,143.60	2	2,503.12	2	2,862.64	2	3,222.16
1/4	48.59	1/4	362.09	1/4	714.29	1/4	1,072.88	1/4	1,432.05	1/4	1,791.57	1/4	2,151.09	1/4	2,510.61	1/4	2,870.13	1/4	3,229.65
1/2	54.69	1/2	369.09	1/2	721.76	1/2	1,080.35	1/2	1,439.54	1/2	1,799.06	1/2	2,158.58	1/2	2,518.10	1/2	2,877.62	1/2	3,237.14
3/4	60.79	3/4	376.09	3/4	729.24	3/4	1,087.82	3/4	1,447.03	3/4	1,806.55	3/4	2,166.07	3/4	2,525.59	3/4	2,885.11	3/4	3,244.63
3	66.89	3	383.10	3	736.71	3	1,095.28	3	1,454.52	3	1,814.04	3	2,173.56	3	2,533.08	3	2,892.60	3	3,252.12
1/4	73.06	1/4	390.17	1/4	744.19	1/4	1,102.75	1/4	1,462.01	1/4	1,821.53	1/4	2,181.05	1/4	2,540.57	1/4	2,900.09	1/4	3,259.61
1/2	79.24	1/2	397.25	1/2	751.66	1/2	1,110.22	1/2	1,469.50	1/2	1,829.02	1/2	2,188.54	1/2	2,548.06	1/2	2,907.58	1/2	3,267.10
3/4	85.41	3/4	404.32	3/4	759.14	3/4	1,117.68	3/4	1,476.99	3/4	1,836.51	3/4	2,196.03	3/4	2,555.55	3/4	2,915.07	3/4	3,274.59
4	91.58	4	411.40	4	766.61	4	1,125.15	4	1,484.48	4	1,844.00	4	2,203.52	4	2,563.04	4	2,922.56	4	3,282.08
1/4	97.83	1/4	418.55	1/4	774.09	1/4	1,132.62	1/4	1,491.97	1/4	1,851.49	1/4	2,211.01	1/4	2,570.53	1/4	2,930.05	1/4	3,289.57
1/2	104.08	1/2	425.70	1/2	781.56	1/2	1,140.08	1/2	1,499.46	1/2	1,858.98	1/2	2,218.50	1/2	2,578.02	1/2	2,937.54	1/2	3,297.06
3/4	110.33	3/4	432.85	3/4	789.04	3/4	1,147.55	3/4	1,506.95	3/4	1,866.47	3/4	2,225.99	3/4	2,585.51	3/4	2,945.03	3/4	3,304.55
5	116.58	5	440.01	5	796.51	5	1,155.02	5	1,514.44	5	1,873.96	5	2,233.48	5	2,593.00	5	2,952.52	5	3,312.04
1/4	122.91	1/4	447.23	1/4	804.00	1/4	1,162.48	1/4	1,521.93	1/4	1,881.45	1/4	2,240.97	1/4	2,600.49	1/4	2,960.01	1/4	3,319.53
1/2	129.23	1/2	454.46	1/2	811.49	1/2	1,169.95	1/2	1,529.42	1/2	1,888.94	1/2	2,248.46	1/2	2,607.98	1/2	2,967.50	1/2	3,327.02
3/4	135.56	3/4	461.69	3/4	818.98	3/4	1,177.42	3/4	1,536.91	3/4	1,896.43	3/4	2,255.95	3/4	2,615.47	3/4	2,974.99	3/4	3,334.51
6	141.88	6	468.91	6	826.47	6	1,184.88	6	1,544.40	6	1,903.92	6	2,263.44	6	2,622.96	6	2,982.48	6	3,342.00
1/4	148.28	1/4	476.21	1/4	833.94	1/4	1,192.37	1/4	1,551.89	1/4	1,911.41	1/4	2,270.93	1/4	2,630.45	1/4	2,989.97	1/4	3,349.49
1/2	154.68	1/2	483.52	1/2	841.41	1/2	1,199.86	1/2	1,559.38	1/2	1,918.90	1/2	2,278.42	1/2	2,637.94	1/2	2,997.46	1/2	3,356.98
3/4	161.08	3/4	490.82	3/4	848.87	3/4	1,207.35	3/4	1,566.87	3/4	1,926.39	3/4	2,285.91	3/4	2,645.43	3/4	3,004.95	3/4	3,364.47
7	167.48	7	498.12	7	856.34	7	1,214.84	7	1,574.36	7	1,933.88	7	2,293.40	7	2,652.92	7	3,012.44	7	3,371.96
1/4	173.95	1/4	505.48	1/4	863.81	1/4	1,222.33	1/4	1,581.85	1/4	1,941.37	1/4	2,300.89	1/4	2,660.41	1/4	3,019.93	1/4	3,379.45
1/2	180.43	1/2	512.84	1/2	871.28	1/2	1,229.82	1/2	1,589.34	1/2	1,948.86	1/2	2,308.38	1/2	2,667.90	1/2	3,027.42	1/2	3,386.94
3/4	186.90	3/4	520.21	3/4	878.74	3/4	1,237.31	3/4	1,596.83	3/4	1,956.35	3/4	2,315.87	3/4	2,675.39	3/4	3,034.91	3/4	3,394.43
8	193.38	8	527.57	8	886.21	8	1,244.80	8	1,604.32	8	1,963.84	8	2,323.36	8	2,682.88	8	3,042.40	8	3,401.92
1/4	199.93	1/4	535.01	1/4	893.68	1/4	1,252.29	1/4	1,611.81	1/4	1,971.33	1/4	2,330.85	1/4	2,690.37	1/4	3,049.89	1/4	3,409.41
1/2	206.48	1/2	542.44	1/2	901.14	1/2	1,259.78	1/2	1,619.30	1/2	1,978.82	1/2	2,338.34	1/2	2,697.86	1/2	3,057.38	1/2	3,416.90
3/4	213.03	3/4	549.88	3/4	908.61	3/4	1,267.27	3/4	1,626.79	3/4	1,986.31	3/4	2,345.83	3/4	2,705.35	3/4	3,064.87	3/4	3,424.39
9	219.58	9	557.32	9	916.08	9	1,274.76	9	1,634.28	9	1,993.80	9	2,353.32	9	2,712.84	9	3,072.36	9	3,431.88
1/4	226.20	1/4	564.79	1/4	923.54	1/4	1,282.25	1/4	1,641.77	1/4	2,001.29	1/4	2,360.81	1/4	2,720.33	1/4	3,079.85	1/4	3,439.37
1/2	232.83	1/2	572.27	1/2	931.01	1/2	1,289.74	1/2	1,649.26	1/2	2,008.78	1/2	2,368.30	1/2	2,727.82	1/2	3,087.34	1/2	3,446.86
3/4	239.45	3/4	579.74	3/4	938.48	3/4	1,297.23	3/4	1,656.75	3/4	2,016.27	3/4	2,375.79	3/4	2,735.31	3/4	3,094.83	3/4	3,454.35
10	246.08	10	587.22	10	945.94	10	1,304.72	10	1,664.24	10	2,023.76	10	2,383.28	10	2,742.80	10	3,102.32	10	3,461.84
1/4	252.78	1/4	594.69	1/4	953.41	1/4	1,312.21	1/4	1,671.73	1/4	2,031.25	1/4	2,390.77	1/4	2,750.29	1/4	3,109.81	1/4	3,469.32
1/2	259.48	1/2	602.17	1/2	960.88	1/2	1,319.70	1/2	1,679.22	1/2	2,038.74	1/2	2,398.26	1/2	2,757.78	1/2	3,117.30	1/2	3,476.79
3/4	266.18	3/4	609.64	3/4	968.34	3/4	1,327.19	3/4	1,686.71	3/4	2,046.23	3/4	2,405.75	3/4	2,765.27	3/4	3,124.79	3/4	3,484.26
11	272.88	11	617.12	11	975.81	11	1,334.68	11	1,694.20	11	2,053.72	11	2,413.24	11	2,772.76	11	3,132.28	11	3,491.73
1/4	279.66	1/4	624.59	1/4	983.28	1/4	1,342.17	1/4	1,701.69	1/4	2,061.21	1/4	2,420.73	1/4	2,780.25	1/4	3,139.77	1/4	3,499.17
1/2	286.43	1/2	632.07	1/2	990.75	1/2	1,349.66	1/2	1,709.18	1/2	2,068.70	1/2	2,428.22	1/2	2,787.74	1/2	3,147.26	1/2	3,506.61
3/4	293.21	3/4	639.54	3/4	998.21	3/4	1,357.15	3/4	1,716.67	3/4	2,076.19	3/4	2,435.71	3/4	2,795.23	3/4	3,154.75	3/4	3,514.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 501"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,521.48	0	3,867.79	0	4,193.62	0	4,499.73	0		0		0		0		0		0	
1/4	3,528.89	1/4	3,874.77	1/4	4,200.18	1/4	4,505.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,536.29	1/2	3,881.74	1/2	4,206.75	1/2	4,512.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,543.70	3/4	3,888.72	3/4	4,213.31	3/4	4,518.19	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,551.10	1	3,895.70	1	4,219.88	1	4,524.35	1		1		1		1		1		1	
1/4	3,558.47	1/4	3,902.64	1/4	4,226.41	1/4	4,530.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,565.84	1/2	3,909.58	1/2	4,232.94	1/2	4,536.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,573.21	3/4	3,916.52	3/4	4,239.47	3/4	4,542.71	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,580.58	2	3,923.46	2	4,246.01	2	4,548.83	2		2		2		2		2		2	
1/4	3,587.92	1/4	3,930.37	1/4	4,252.50	1/4	4,554.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,595.26	1/2	3,937.28	1/2	4,259.00	1/2	4,561.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,602.59	3/4	3,944.19	3/4	4,265.50	3/4	4,567.09	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,609.93	3	3,951.10	3	4,271.99	3	4,573.18	3		3		3		3		3		3	
1/4	3,617.23	1/4	3,957.97	1/4	4,278.46	1/4	4,579.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,624.53	1/2	3,964.84	1/2	4,284.92	1/2	4,585.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,631.83	3/4	3,971.72	3/4	4,291.38	3/4	4,591.33	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,639.13	4	3,978.59	4	4,297.85	4	4,597.38	4		4		4		4		4		4	
1/4	3,646.40	1/4	3,985.43	1/4	4,304.27	1/4	4,604.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,653.67	1/2	3,992.27	1/2	4,310.70	1/2	4,612.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,660.94	3/4	3,999.11	3/4	4,317.13	3/4	4,619.80	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,668.20	5	4,005.95	5	4,323.56	5	4,627.27	5		5		5		5		5		5	
1/4	3,675.44	1/4	4,012.75	1/4	4,329.95	1/4	4,634.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,682.67	1/2	4,019.56	1/2	4,336.35	1/2	4,642.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.90	3/4	4,026.36	3/4	4,342.74	3/4	4,649.69	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,697.14	6	4,033.17	6	4,349.14	6	4,657.17	6		6		6		6		6		6	
1/4	3,704.34	1/4	4,039.94	1/4	4,355.50	1/4	4,664.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.53	1/2	4,046.71	1/2	4,361.86	1/2	4,672.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,718.73	3/4	4,053.48	3/4	4,368.22	3/4	4,679.58	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,725.93	7	4,060.25	7	4,374.58	7	4,687.06	7		7		7		7		7		7	
1/4	3,733.10	1/4	4,066.99	1/4	4,380.90	1/4	4,694.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.26	1/2	4,073.73	1/2	4,387.23	1/2	4,701.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,747.43	3/4	4,080.46	3/4	4,393.56	3/4	4,708.99	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,754.59	8	4,087.20	8	4,399.88	8	4,716.30	8		8		8		8		8		8	
1/4	3,761.72	1/4	4,093.90	1/4	4,406.17	1/4	4,722.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.85	1/2	4,100.60	1/2	4,412.47	1/2	4,729.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.98	3/4	4,107.31	3/4	4,418.76	3/4	4,736.20	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,783.11	9	4,114.01	9	4,425.05	9	4,742.83	9		9		9		9		9		9	
1/4	3,790.21	1/4	4,120.68	1/4	4,431.31	1/4	4,748.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,797.31	1/2	4,127.35	1/2	4,437.56	1/2	4,753.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.40	3/4	4,134.01	3/4	4,443.82	3/4	4,758.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,811.50	10	4,140.68	10	4,450.08	10	4,763.91	10		10		10		10		10		10	
1/4	3,818.56	1/4	4,147.32	1/4	4,456.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.62	1/2	4,153.95	1/2	4,462.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,832.69	3/4	4,160.58	3/4	4,468.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,839.75	11	4,167.22	11	4,474.97	11		11		11		11		11		11		11	
1/4	3,846.76	1/4	4,173.82	1/4	4,481.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,853.77	1/2	4,180.42	1/2	4,487.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.78	3/4	4,187.02	3/4	4,493.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
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BARGE "EMS 501"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.52	0	368.58	0	729.01	0	1,089.44	0	1,450.17	0	1,810.91	0	2,171.64	0	2,532.38	0	2,893.11	0	3,253.85
1/4	22.89	1/4	376.10	1/4	736.51	1/4	1,096.96	1/4	1,457.69	1/4	1,818.42	1/4	2,179.16	1/4	2,539.89	1/4	2,900.63	1/4	3,261.36
1/2	28.25	1/2	383.61	1/2	744.01	1/2	1,104.47	1/2	1,465.20	1/2	1,825.94	1/2	2,186.67	1/2	2,547.41	1/2	2,908.14	1/2	3,268.88
3/4	33.62	3/4	391.13	3/4	751.51	3/4	1,111.99	3/4	1,472.72	3/4	1,833.45	3/4	2,194.19	3/4	2,554.92	3/4	2,915.66	3/4	3,276.39
1	38.99	1	398.64	1	759.01	1	1,119.50	1	1,480.24	1	1,840.97	1	2,201.70	1	2,562.44	1	2,923.17	1	3,283.91
1/4	46.24	1/4	406.16	1/4	766.51	1/4	1,127.02	1/4	1,487.75	1/4	1,848.49	1/4	2,209.22	1/4	2,569.95	1/4	2,930.69	1/4	3,291.42
1/2	53.48	1/2	413.67	1/2	774.01	1/2	1,134.53	1/2	1,495.27	1/2	1,856.00	1/2	2,216.73	1/2	2,577.47	1/2	2,938.20	1/2	3,298.94
3/4	60.73	3/4	421.19	3/4	781.51	3/4	1,142.05	3/4	1,502.78	3/4	1,863.52	3/4	2,224.25	3/4	2,584.98	3/4	2,945.72	3/4	3,306.45
2	67.98	2	428.70	2	789.01	2	1,149.56	2	1,510.30	2	1,871.03	2	2,231.77	2	2,592.50	2	2,953.23	2	3,313.97
1/4	75.49	1/4	436.22	1/4	796.51	1/4	1,157.08	1/4	1,517.81	1/4	1,878.55	1/4	2,239.28	1/4	2,600.02	1/4	2,960.75	1/4	3,321.48
1/2	83.01	1/2	443.73	1/2	804.01	1/2	1,164.59	1/2	1,525.33	1/2	1,886.06	1/2	2,246.80	1/2	2,607.53	1/2	2,968.26	1/2	3,329.00
3/4	90.52	3/4	451.25	3/4	811.51	3/4	1,172.11	3/4	1,532.84	3/4	1,893.58	3/4	2,254.31	3/4	2,615.05	3/4	2,975.78	3/4	3,336.51
3	98.04	3	458.76	3	819.01	3	1,179.62	3	1,540.36	3	1,901.09	3	2,261.83	3	2,622.56	3	2,983.30	3	3,344.03
1/4	105.55	1/4	466.28	1/4	826.51	1/4	1,187.14	1/4	1,547.87	1/4	1,908.61	1/4	2,269.34	1/4	2,630.08	1/4	2,990.81	1/4	3,351.55
1/2	113.07	1/2	473.79	1/2	834.01	1/2	1,194.65	1/2	1,555.39	1/2	1,916.12	1/2	2,276.86	1/2	2,637.59	1/2	2,998.33	1/2	3,359.06
3/4	120.58	3/4	481.31	3/4	841.51	3/4	1,202.17	3/4	1,562.90	3/4	1,923.64	3/4	2,284.37	3/4	2,645.11	3/4	3,005.84	3/4	3,366.58
4	128.10	4	488.82	4	849.01	4	1,209.68	4	1,570.42	4	1,931.15	4	2,291.89	4	2,652.62	4	3,013.36	4	3,374.09
1/4	135.61	1/4	496.34	1/4	856.51	1/4	1,217.20	1/4	1,577.93	1/4	1,938.67	1/4	2,299.40	1/4	2,660.14	1/4	3,020.87	1/4	3,381.61
1/2	143.13	1/2	503.85	1/2	864.01	1/2	1,224.72	1/2	1,585.45	1/2	1,946.18	1/2	2,306.92	1/2	2,667.65	1/2	3,028.39	1/2	3,389.12
3/4	150.64	3/4	511.37	3/4	871.51	3/4	1,232.23	3/4	1,592.96	3/4	1,953.70	3/4	2,314.43	3/4	2,675.17	3/4	3,035.90	3/4	3,396.64
5	158.16	5	518.88	5	879.01	5	1,239.75	5	1,600.48	5	1,961.21	5	2,321.95	5	2,682.68	5	3,043.42	5	3,404.15
1/4	165.67	1/4	526.40	1/4	886.53	1/4	1,247.26	1/4	1,608.00	1/4	1,968.73	1/4	2,329.46	1/4	2,690.20	1/4	3,050.93	1/4	3,411.67
1/2	173.19	1/2	533.91	1/2	894.04	1/2	1,254.78	1/2	1,615.51	1/2	1,976.25	1/2	2,336.98	1/2	2,697.71	1/2	3,058.45	1/2	3,419.18
3/4	180.70	3/4	541.43	3/4	901.56	3/4	1,262.29	3/4	1,623.03	3/4	1,983.76	3/4	2,344.49	3/4	2,705.23	3/4	3,065.96	3/4	3,426.70
6	188.22	6	548.94	6	909.07	6	1,269.81	6	1,630.54	6	1,991.28	6	2,352.01	6	2,712.74	6	3,073.48	6	3,434.21
1/4	195.73	1/4	556.46	1/4	916.59	1/4	1,277.32	1/4	1,638.06	1/4	1,998.79	1/4	2,359.53	1/4	2,720.26	1/4	3,080.99	1/4	3,441.73
1/2	203.25	1/2	563.97	1/2	924.10	1/2	1,284.84	1/2	1,645.57	1/2	2,006.31	1/2	2,367.04	1/2	2,727.78	1/2	3,088.51	1/2	3,449.24
3/4	210.76	3/4	571.49	3/4	931.62	3/4	1,292.35	3/4	1,653.09	3/4	2,013.82	3/4	2,374.56	3/4	2,735.29	3/4	3,096.02	3/4	3,456.76
7	218.28	7	579.00	7	939.13	7	1,299.87	7	1,660.60	7	2,021.34	7	2,382.07	7	2,742.81	7	3,103.54	7	3,464.27
1/4	225.79	1/4	586.50	1/4	946.65	1/4	1,307.38	1/4	1,668.12	1/4	2,028.85	1/4	2,389.59	1/4	2,750.32	1/4	3,111.06	1/4	3,471.79
1/2	233.31	1/2	594.00	1/2	954.16	1/2	1,314.90	1/2	1,675.63	1/2	2,036.37	1/2	2,397.10	1/2	2,757.84	1/2	3,118.57	1/2	3,479.31
3/4	240.82	3/4	601.50	3/4	961.68	3/4	1,322.41	3/4	1,683.15	3/4	2,043.88	3/4	2,404.62	3/4	2,765.35	3/4	3,126.09	3/4	3,486.82
8	248.34	8	609.00	8	969.19	8	1,329.93	8	1,690.66	8	2,051.40	8	2,412.13	8	2,772.87	8	3,133.60	8	3,494.34
1/4	255.85	1/4	616.50	1/4	976.71	1/4	1,337.44	1/4	1,698.18	1/4	2,058.91	1/4	2,419.65	1/4	2,780.38	1/4	3,141.12	1/4	3,501.85
1/2	263.37	1/2	624.00	1/2	984.23	1/2	1,344.96	1/2	1,705.69	1/2	2,066.43	1/2	2,427.16	1/2	2,787.90	1/2	3,148.63	1/2	3,509.37
3/4	270.88	3/4	631.50	3/4	991.74	3/4	1,352.48	3/4	1,713.21	3/4	2,073.94	3/4	2,434.68	3/4	2,795.41	3/4	3,156.15	3/4	3,516.88
9	278.40	9	639.00	9	999.26	9	1,359.99	9	1,720.72	9	2,081.46	9	2,442.19	9	2,802.93	9	3,163.66	9	3,524.40
1/4	285.91	1/4	646.51	1/4	1,006.77	1/4	1,367.51	1/4	1,728.24	1/4	2,088.97	1/4	2,449.71	1/4	2,810.44	1/4	3,171.18	1/4	3,531.91
1/2	293.43	1/2	654.01	1/2	1,014.29	1/2	1,375.02	1/2	1,735.76	1/2	2,096.49	1/2	2,457.22	1/2	2,817.96	1/2	3,178.69	1/2	3,539.43
3/4	300.94	3/4	661.51	3/4	1,021.80	3/4	1,382.54	3/4	1,743.27	3/4	2,104.01	3/4	2,464.74	3/4	2,825.47	3/4	3,186.21	3/4	3,546.94
10	308.46	10	669.01	10	1,029.32	10	1,390.05	10	1,750.79	10	2,111.52	10	2,472.25	10	2,832.99	10	3,193.72	10	3,554.46
1/4	315.97	1/4	676.51	1/4	1,036.83	1/4	1,397.57	1/4	1,758.30	1/4	2,119.04	1/4	2,479.77	1/4	2,840.50	1/4	3,201.24	1/4	3,561.96
1/2	323.49	1/2	684.01	1/2	1,044.35	1/2	1,405.08	1/2	1,765.82	1/2	2,126.55	1/2	2,487.29	1/2	2,848.02	1/2	3,208.75	1/2	3,569.46
3/4	331.01	3/4	691.51	3/4	1,051.86	3/4	1,412.60	3/4	1,773.33	3/4	2,134.07	3/4	2,494.80	3/4	2,855.54	3/4	3,216.27	3/4	3,576.97
11	338.52	11	699.01	11	1,059.38	11	1,420.11	11	1,780.85	11	2,141.58	11	2,502.32	11	2,863.05	11	3,223.78	11	3,584.47
1/4	346.04	1/4	706.51	1/4	1,066.89	1/4	1,427.63	1/4	1,788.36	1/4	2,149.10	1/4	2,509.83	1/4	2,870.57	1/4	3,231.30	1/4	3,591.93
1/2	353.55	1/2	714.01	1/2	1,074.41	1/2	1,435.14	1/2	1,795.88	1/2	2,156.61	1/2	2,517.35	1/2	2,878.08	1/2	3,238.82	1/2	3,599.40
3/4	361.07	3/4	721.51	3/4	1,081.92	3/4	1,442.66	3/4	1,803.39	3/4	2,164.13	3/4	2,524.86	3/4	2,885.60	3/4	3,246.33	3/4	3,606.86

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 501"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,614.32	0	3,961.85	0	4,288.90	0	4,596.25	0		0		0		0		0		0	
1/4	3,621.75	1/4	3,968.85	1/4	4,295.50	1/4	4,602.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,629.18	1/2	3,975.85	1/2	4,302.09	1/2	4,608.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,636.61	3/4	3,982.86	3/4	4,308.68	3/4	4,614.79	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,644.04	1	3,989.86	1	4,315.27	1	4,620.97	1		1		1		1		1		1	
1/4	3,651.44	1/4	3,996.83	1/4	4,321.83	1/4	4,627.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.83	1/2	4,003.79	1/2	4,328.38	1/2	4,633.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.23	3/4	4,010.76	3/4	4,334.94	3/4	4,639.41	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,673.63	2	4,017.73	2	4,341.50	2	4,645.55	2		2		2		2		2		2	
1/4	3,680.99	1/4	4,024.66	1/4	4,348.02	1/4	4,651.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.35	1/2	4,031.60	1/2	4,354.54	1/2	4,657.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.71	3/4	4,038.53	3/4	4,361.07	3/4	4,663.89	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,703.07	3	4,045.46	3	4,367.59	3	4,670.00	3		3		3		3		3		3	
1/4	3,710.40	1/4	4,052.36	1/4	4,374.08	1/4	4,676.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.73	1/2	4,059.26	1/2	4,380.57	1/2	4,682.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,725.05	3/4	4,066.16	3/4	4,387.05	3/4	4,688.24	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,732.38	4	4,073.06	4	4,393.54	4	4,694.31	4		4		4		4		4		4	
1/4	3,739.67	1/4	4,079.92	1/4	4,400.00	1/4	4,701.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,746.97	1/2	4,086.79	1/2	4,406.45	1/2	4,709.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754.26	3/4	4,093.65	3/4	4,412.91	3/4	4,716.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,761.55	5	4,100.52	5	4,419.36	5	4,724.31	5		5		5		5		5		5	
1/4	3,768.81	1/4	4,107.35	1/4	4,425.78	1/4	4,731.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,776.07	1/2	4,114.18	1/2	4,432.20	1/2	4,739.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,783.33	3/4	4,121.01	3/4	4,438.62	3/4	4,746.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,790.59	6	4,127.84	6	4,445.04	6	4,754.30	6		6		6		6		6		6	
1/4	3,797.81	1/4	4,134.64	1/4	4,451.43	1/4	4,761.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,805.04	1/2	4,141.44	1/2	4,457.81	1/2	4,769.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,812.26	3/4	4,148.23	3/4	4,464.20	3/4	4,776.79	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,819.48	7	4,155.03	7	4,470.58	7	4,784.29	7		7		7		7		7		7	
1/4	3,826.67	1/4	4,161.79	1/4	4,476.93	1/4	4,791.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,833.86	1/2	4,168.55	1/2	4,483.29	1/2	4,798.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,841.05	3/4	4,175.32	3/4	4,489.64	3/4	4,806.30	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,848.24	8	4,182.08	8	4,495.99	8	4,813.64	8		8		8		8		8		8	
1/4	3,855.40	1/4	4,188.81	1/4	4,502.31	1/4	4,820.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,862.56	1/2	4,195.53	1/2	4,508.62	1/2	4,826.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,869.71	3/4	4,202.26	3/4	4,514.94	3/4	4,833.59	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,876.87	9	4,208.99	9	4,521.26	9	4,840.25	9		9		9		9		9		9	
1/4	3,883.99	1/4	4,215.68	1/4	4,527.54	1/4	4,845.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,891.11	1/2	4,222.38	1/2	4,533.83	1/2	4,850.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,898.23	3/4	4,229.07	3/4	4,540.11	3/4	4,856.11	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,905.36	10	4,235.76	10	4,546.39	10	4,861.40	10		10		10		10		10		10	
1/4	3,912.44	1/4	4,242.42	1/4	4,552.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,919.53	1/2	4,249.08	1/2	4,558.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,926.62	3/4	4,255.74	3/4	4,565.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,933.71	11	4,262.40	11	4,571.39	11		11		11		11		11		11		11	
1/4	3,940.74	1/4	4,269.03	1/4	4,577.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,947.78	1/2	4,275.65	1/2	4,583.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,954.81	3/4	4,282.28	3/4	4,590.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 501"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.51	0	368.40	0	721.85	0	1,061.30	0	1,414.87	0	1,774.32	0	2,133.56	0	2,493.28	0	2,852.99	0	3,212.72
1/4	22.87	1/4	375.91	1/4	728.95	1/4	1,068.49	1/4	1,422.36	1/4	1,781.80	1/4	2,141.05	1/4	2,500.77	1/4	2,860.48	1/4	3,220.21
1/2	28.24	1/2	383.42	1/2	736.05	1/2	1,075.68	1/2	1,429.86	1/2	1,789.27	1/2	2,148.55	1/2	2,508.26	1/2	2,867.98	1/2	3,227.71
3/4	33.60	3/4	390.93	3/4	743.16	3/4	1,082.86	3/4	1,437.35	3/4	1,796.75	3/4	2,156.05	3/4	2,515.75	3/4	2,875.47	3/4	3,235.20
1	38.97	1	398.44	1	750.26	1	1,090.05	1	1,444.85	1	1,804.23	1	2,163.55	1	2,523.25	1	2,882.96	1	3,242.70
1/4	46.21	1/4	405.96	1/4	757.36	1/4	1,097.24	1/4	1,452.34	1/4	1,811.71	1/4	2,171.04	1/4	2,530.74	1/4	2,890.46	1/4	3,250.19
1/2	53.46	1/2	413.47	1/2	764.46	1/2	1,104.42	1/2	1,459.83	1/2	1,819.18	1/2	2,178.54	1/2	2,538.23	1/2	2,897.95	1/2	3,257.68
3/4	60.70	3/4	420.98	3/4	771.56	3/4	1,111.61	3/4	1,467.33	3/4	1,826.66	3/4	2,186.04	3/4	2,545.72	3/4	2,905.45	3/4	3,265.18
2	67.94	2	428.49	2	778.67	2	1,118.80	2	1,474.82	2	1,834.14	2	2,193.54	2	2,553.21	2	2,912.94	2	3,272.67
1/4	75.45	1/4	436.00	1/4	785.77	1/4	1,125.98	1/4	1,482.32	1/4	1,841.62	1/4	2,201.03	1/4	2,560.70	1/4	2,920.44	1/4	3,280.17
1/2	82.96	1/2	443.51	1/2	792.87	1/2	1,133.17	1/2	1,489.81	1/2	1,849.09	1/2	2,208.53	1/2	2,568.20	1/2	2,927.93	1/2	3,287.66
3/4	90.48	3/4	451.02	3/4	799.97	3/4	1,140.36	3/4	1,497.30	3/4	1,856.57	3/4	2,216.03	3/4	2,575.69	3/4	2,935.42	3/4	3,295.16
3	97.99	3	458.53	3	807.07	3	1,147.54	3	1,504.80	3	1,864.05	3	2,223.52	3	2,583.19	3	2,942.92	3	3,302.65
1/4	105.50	1/4	466.05	1/4	814.18	1/4	1,154.73	1/4	1,512.29	1/4	1,871.53	1/4	2,231.02	1/4	2,590.68	1/4	2,950.41	1/4	3,310.14
1/2	113.01	1/2	473.56	1/2	821.28	1/2	1,161.92	1/2	1,519.79	1/2	1,879.00	1/2	2,238.52	1/2	2,598.18	1/2	2,957.91	1/2	3,317.64
3/4	120.52	3/4	481.07	3/4	828.38	3/4	1,169.10	3/4	1,527.28	3/4	1,886.48	3/4	2,246.02	3/4	2,605.67	3/4	2,965.40	3/4	3,325.13
4	128.03	4	488.58	4	835.48	4	1,176.29	4	1,534.77	4	1,893.96	4	2,253.51	4	2,613.17	4	2,972.90	4	3,332.63
1/4	135.54	1/4	496.08	1/4	842.58	1/4	1,183.47	1/4	1,542.27	1/4	1,901.44	1/4	2,261.01	1/4	2,620.66	1/4	2,980.39	1/4	3,340.12
1/2	143.06	1/2	503.58	1/2	849.69	1/2	1,190.66	1/2	1,549.76	1/2	1,908.91	1/2	2,268.51	1/2	2,628.15	1/2	2,987.89	1/2	3,347.62
3/4	150.57	3/4	511.08	3/4	856.79	3/4	1,197.85	3/4	1,557.26	3/4	1,916.39	3/4	2,276.01	3/4	2,635.65	3/4	2,995.38	3/4	3,355.11
5	158.08	5	518.58	5	863.89	5	1,205.03	5	1,564.75	5	1,923.87	5	2,283.50	5	2,643.14	5	3,002.87	5	3,362.61
1/4	165.59	1/4	526.08	1/4	870.70	1/4	1,212.53	1/4	1,572.24	1/4	1,931.35	1/4	2,291.00	1/4	2,650.64	1/4	3,010.37	1/4	3,370.10
1/2	173.10	1/2	533.58	1/2	877.50	1/2	1,220.02	1/2	1,579.74	1/2	1,938.82	1/2	2,298.50	1/2	2,658.13	1/2	3,017.86	1/2	3,377.59
3/4	180.61	3/4	541.08	3/4	884.31	3/4	1,227.52	3/4	1,587.23	3/4	1,946.30	3/4	2,305.99	3/4	2,665.63	3/4	3,025.36	3/4	3,385.09
6	188.12	6	548.58	6	891.11	6	1,235.01	6	1,594.73	6	1,953.78	6	2,313.49	6	2,673.12	6	3,032.85	6	3,392.58
1/4	195.64	1/4	556.07	1/4	897.92	1/4	1,242.50	1/4	1,602.22	1/4	1,961.26	1/4	2,320.98	1/4	2,680.62	1/4	3,040.35	1/4	3,400.08
1/2	203.15	1/2	563.56	1/2	904.73	1/2	1,250.00	1/2	1,609.72	1/2	1,968.73	1/2	2,328.47	1/2	2,688.11	1/2	3,047.84	1/2	3,407.57
3/4	210.66	3/4	571.05	3/4	911.53	3/4	1,257.49	3/4	1,617.21	3/4	1,976.21	3/4	2,335.97	3/4	2,695.60	3/4	3,055.34	3/4	3,415.07
7	218.17	7	578.53	7	918.34	7	1,264.99	7	1,624.70	7	1,983.69	7	2,343.46	7	2,703.10	7	3,062.83	7	3,422.56
1/4	225.68	1/4	585.69	1/4	925.46	1/4	1,272.48	1/4	1,632.20	1/4	1,991.17	1/4	2,350.95	1/4	2,710.59	1/4	3,070.32	1/4	3,430.06
1/2	233.19	1/2	592.85	1/2	932.58	1/2	1,279.98	1/2	1,639.69	1/2	1,998.64	1/2	2,358.44	1/2	2,718.09	1/2	3,077.82	1/2	3,437.55
3/4	240.70	3/4	600.01	3/4	939.71	3/4	1,287.47	3/4	1,647.19	3/4	2,006.12	3/4	2,365.93	3/4	2,725.58	3/4	3,085.31	3/4	3,445.04
8	248.22	8	607.17	8	946.83	8	1,294.96	8	1,654.68	8	2,013.60	8	2,373.42	8	2,733.08	8	3,092.81	8	3,452.54
1/4	255.73	1/4	614.33	1/4	953.95	1/4	1,302.46	1/4	1,662.16	1/4	2,021.10	1/4	2,380.91	1/4	2,740.57	1/4	3,100.30	1/4	3,460.03
1/2	263.24	1/2	621.50	1/2	961.08	1/2	1,309.95	1/2	1,669.63	1/2	2,028.59	1/2	2,388.40	1/2	2,748.06	1/2	3,107.80	1/2	3,467.53
3/4	270.75	3/4	628.67	3/4	968.20	3/4	1,317.45	3/4	1,677.11	3/4	2,036.09	3/4	2,395.90	3/4	2,755.56	3/4	3,115.29	3/4	3,475.02
9	278.26	9	635.84	9	975.32	9	1,324.94	9	1,684.59	9	2,043.59	9	2,403.39	9	2,763.05	9	3,122.78	9	3,482.52
1/4	285.77	1/4	643.00	1/4	982.44	1/4	1,332.43	1/4	1,692.07	1/4	2,051.09	1/4	2,410.88	1/4	2,770.55	1/4	3,130.28	1/4	3,490.01
1/2	293.28	1/2	650.17	1/2	989.57	1/2	1,339.93	1/2	1,699.54	1/2	2,058.58	1/2	2,418.37	1/2	2,778.04	1/2	3,137.77	1/2	3,497.50
3/4	300.80	3/4	657.34	3/4	996.69	3/4	1,347.42	3/4	1,707.02	3/4	2,066.08	3/4	2,425.86	3/4	2,785.54	3/4	3,145.27	3/4	3,505.00
10	308.31	10	664.51	10	1,003.81	10	1,354.92	10	1,714.50	10	2,073.58	10	2,433.35	10	2,793.03	10	3,152.76	10	3,512.49
1/4	315.82	1/4	671.68	1/4	1,011.00	1/4	1,362.41	1/4	1,721.98	1/4	2,081.08	1/4	2,440.84	1/4	2,800.53	1/4	3,160.26	1/4	3,519.97
1/2	323.33	1/2	678.84	1/2	1,018.19	1/2	1,369.90	1/2	1,729.45	1/2	2,088.57	1/2	2,448.33	1/2	2,808.02	1/2	3,167.75	1/2	3,527.46
3/4	330.84	3/4	686.01	3/4	1,025.37	3/4	1,377.40	3/4	1,736.93	3/4	2,096.07	3/4	2,455.82	3/4	2,815.51	3/4	3,175.25	3/4	3,534.94
11	338.35	11	693.18	11	1,032.56	11	1,384.89	11	1,744.41	11	2,103.57	11	2,463.32	11	2,823.01	11	3,182.74	11	3,542.42
1/4	345.86	1/4	700.35	1/4	1,039.74	1/4	1,392.39	1/4	1,751.89	1/4	2,111.06	1/4	2,470.81	1/4	2,830.50	1/4	3,190.23	1/4	3,549.86
1/2	353.38	1/2	707.51	1/2	1,046.93	1/2	1,399.88	1/2	1,759.36	1/2	2,118.56	1/2	2,478.30	1/2	2,838.00	1/2	3,197.73	1/2	3,557.30
3/4	360.89	3/4	714.68	3/4	1,054.12	3/4	1,407.37	3/4	1,766.84	3/4	2,126.06	3/4	2,485.79	3/4	2,845.49	3/4	3,205.22	3/4	3,564.75

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 501"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,572.19	0	3,918.72	0	4,223.36	0	4,493.01	0		0		0		0		0		0	
1/4	3,579.60	1/4	3,925.70	1/4	4,229.17	1/4	4,498.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,587.01	1/2	3,932.68	1/2	4,234.98	1/2	4,503.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,594.42	3/4	3,939.66	3/4	4,240.78	3/4	4,509.19	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,601.82	1	3,946.64	1	4,246.59	1	4,514.59	1		1		1		1		1		1	
1/4	3,609.20	1/4	3,953.59	1/4	4,252.36	1/4	4,519.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.57	1/2	3,960.54	1/2	4,258.13	1/2	4,525.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.95	3/4	3,967.48	3/4	4,263.90	3/4	4,530.67	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,631.32	2	3,974.43	2	4,269.67	2	4,536.03	2		2		2		2		2		2	
1/4	3,638.66	1/4	3,981.34	1/4	4,275.41	1/4	4,541.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,646.00	1/2	3,988.26	1/2	4,281.15	1/2	4,546.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,653.35	3/4	3,995.17	3/4	4,286.88	3/4	4,552.01	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,660.69	3	4,002.08	3	4,292.62	3	4,557.34	3		3		3		3		3		3	
1/4	3,667.99	1/4	4,008.96	1/4	4,298.32	1/4	4,562.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,675.30	1/2	4,015.84	1/2	4,304.03	1/2	4,567.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.60	3/4	4,022.72	3/4	4,309.73	3/4	4,573.22	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,689.91	4	4,029.60	4	4,315.43	4	4,578.51	4		4		4		4		4		4	
1/4	3,697.18	1/4	4,036.44	1/4	4,321.10	1/4	4,585.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.45	1/2	4,043.28	1/2	4,326.77	1/2	4,591.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,711.73	3/4	4,050.13	3/4	4,332.44	3/4	4,598.65	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,719.00	5	4,056.97	5	4,338.11	5	4,605.36	5		5		5		5		5		5	
1/4	3,726.24	1/4	4,063.02	1/4	4,343.74	1/4	4,612.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.47	1/2	4,069.06	1/2	4,349.38	1/2	4,618.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.71	3/4	4,075.11	3/4	4,355.01	3/4	4,625.49	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,747.95	6	4,081.15	6	4,360.65	6	4,632.21	6		6		6		6		6		6	
1/4	3,755.15	1/4	4,087.16	1/4	4,366.25	1/4	4,638.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,762.36	1/2	4,093.18	1/2	4,371.85	1/2	4,645.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,769.56	3/4	4,099.19	3/4	4,377.45	3/4	4,652.34	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,776.77	7	4,105.20	7	4,383.05	7	4,659.06	7		7		7		7		7		7	
1/4	3,783.93	1/4	4,111.17	1/4	4,388.62	1/4	4,665.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.10	1/2	4,117.15	1/2	4,394.18	1/2	4,672.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.27	3/4	4,123.13	3/4	4,399.75	3/4	4,678.71	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,805.44	8	4,129.10	8	4,405.31	8	4,685.26	8		8		8		8		8		8	
1/4	3,812.58	1/4	4,135.05	1/4	4,410.85	1/4	4,691.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,819.71	1/2	4,140.99	1/2	4,416.38	1/2	4,696.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,826.85	3/4	4,146.93	3/4	4,421.91	3/4	4,702.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,833.98	9	4,152.87	9	4,427.44	9	4,708.73	9		9		9		9		9		9	
1/4	3,841.09	1/4	4,158.78	1/4	4,432.94	1/4	4,713.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.19	1/2	4,164.69	1/2	4,438.44	1/2	4,717.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,855.29	3/4	4,170.60	3/4	4,443.94	3/4	4,722.23	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,862.39	10	4,176.51	10	4,449.43	10	4,726.74	10		10		10		10		10		10	
1/4	3,869.46	1/4	4,182.38	1/4	4,454.90	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,876.52	1/2	4,188.26	1/2	4,460.36	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,883.59	3/4	4,194.13	3/4	4,465.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,890.66	11	4,200.00	11	4,471.29	11		11		11		11		11		11		11	
1/4	3,897.67	1/4	4,205.84	1/4	4,476.72	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,904.69	1/2	4,211.68	1/2	4,482.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,911.70	3/4	4,217.52	3/4	4,487.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "EMS 501"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.56	0	369.46	0	730.76	0	1,092.06	0	1,453.67	0	1,815.28	0	2,176.89	0	2,538.33	0	2,899.76	0	3,261.19
1/4	22.94	1/4	377.00	1/4	738.28	1/4	1,099.60	1/4	1,461.21	1/4	1,822.81	1/4	2,184.42	1/4	2,545.86	1/4	2,907.29	1/4	3,268.72
1/2	28.32	1/2	384.53	1/2	745.80	1/2	1,107.13	1/2	1,468.74	1/2	1,830.35	1/2	2,191.96	1/2	2,553.39	1/2	2,914.82	1/2	3,276.25
3/4	33.70	3/4	392.06	3/4	753.31	3/4	1,114.67	3/4	1,476.27	3/4	1,837.88	3/4	2,199.49	3/4	2,560.92	3/4	2,922.35	3/4	3,283.78
1	39.08	1	399.60	1	760.83	1	1,122.20	1	1,483.81	1	1,845.41	1	2,207.02	1	2,568.45	1	2,929.88	1	3,291.31
1/4	46.35	1/4	407.13	1/4	768.35	1/4	1,129.73	1/4	1,491.34	1/4	1,852.95	1/4	2,214.55	1/4	2,575.98	1/4	2,937.41	1/4	3,298.84
1/2	53.61	1/2	414.66	1/2	775.87	1/2	1,137.27	1/2	1,498.87	1/2	1,860.48	1/2	2,222.08	1/2	2,583.51	1/2	2,944.94	1/2	3,306.37
3/4	60.88	3/4	422.20	3/4	783.39	3/4	1,144.80	3/4	1,506.41	3/4	1,868.02	3/4	2,229.61	3/4	2,591.04	3/4	2,952.47	3/4	3,313.90
2	68.14	2	429.73	2	790.91	2	1,152.33	2	1,513.94	2	1,875.55	2	2,237.14	2	2,598.57	2	2,960.00	2	3,321.43
1/4	75.67	1/4	437.26	1/4	798.42	1/4	1,159.87	1/4	1,521.47	1/4	1,883.08	1/4	2,244.67	1/4	2,606.10	1/4	2,967.53	1/4	3,328.96
1/2	83.21	1/2	444.79	1/2	805.94	1/2	1,167.40	1/2	1,529.01	1/2	1,890.62	1/2	2,252.20	1/2	2,613.63	1/2	2,975.06	1/2	3,336.49
3/4	90.74	3/4	452.33	3/4	813.46	3/4	1,174.93	3/4	1,536.54	3/4	1,898.15	3/4	2,259.73	3/4	2,621.16	3/4	2,982.59	3/4	3,344.02
3	98.27	3	459.86	3	820.98	3	1,182.47	3	1,544.07	3	1,905.68	3	2,267.26	3	2,628.69	3	2,990.12	3	3,351.55
1/4	105.81	1/4	467.39	1/4	828.50	1/4	1,190.00	1/4	1,551.61	1/4	1,913.22	1/4	2,274.79	1/4	2,636.22	1/4	2,997.65	1/4	3,359.09
1/2	113.34	1/2	474.93	1/2	836.02	1/2	1,197.53	1/2	1,559.14	1/2	1,920.75	1/2	2,282.32	1/2	2,643.75	1/2	3,005.18	1/2	3,366.62
3/4	120.87	3/4	482.46	3/4	843.53	3/4	1,205.07	3/4	1,566.68	3/4	1,928.28	3/4	2,289.85	3/4	2,651.28	3/4	3,012.71	3/4	3,374.15
4	128.40	4	489.99	4	851.05	4	1,212.60	4	1,574.21	4	1,935.82	4	2,297.38	4	2,658.81	4	3,020.24	4	3,381.69
1/4	135.94	1/4	497.53	1/4	858.57	1/4	1,220.13	1/4	1,581.74	1/4	1,943.35	1/4	2,304.91	1/4	2,666.34	1/4	3,027.77	1/4	3,389.22
1/2	143.47	1/2	505.06	1/2	866.09	1/2	1,227.67	1/2	1,589.28	1/2	1,950.88	1/2	2,312.44	1/2	2,673.87	1/2	3,035.30	1/2	3,396.75
3/4	151.00	3/4	512.59	3/4	873.61	3/4	1,235.20	3/4	1,596.81	3/4	1,958.42	3/4	2,319.97	3/4	2,681.40	3/4	3,042.83	3/4	3,404.28
5	158.54	5	520.13	5	881.13	5	1,242.73	5	1,604.34	5	1,965.95	5	2,327.50	5	2,688.93	5	3,050.36	5	3,411.82
1/4	166.07	1/4	527.66	1/4	888.66	1/4	1,250.27	1/4	1,611.88	1/4	1,973.48	1/4	2,335.03	1/4	2,696.46	1/4	3,057.89	1/4	3,419.35
1/2	173.60	1/2	535.19	1/2	896.19	1/2	1,257.80	1/2	1,619.41	1/2	1,981.02	1/2	2,342.56	1/2	2,703.99	1/2	3,065.42	1/2	3,426.88
3/4	181.14	3/4	542.73	3/4	903.73	3/4	1,265.34	3/4	1,626.94	3/4	1,988.55	3/4	2,350.09	3/4	2,711.52	3/4	3,072.95	3/4	3,434.42
6	188.67	6	550.26	6	911.26	6	1,272.87	6	1,634.48	6	1,996.08	6	2,357.62	6	2,719.05	6	3,080.48	6	3,441.95
1/4	196.20	1/4	557.79	1/4	918.79	1/4	1,280.40	1/4	1,642.01	1/4	2,003.62	1/4	2,365.15	1/4	2,726.58	1/4	3,088.01	1/4	3,449.48
1/2	203.74	1/2	565.32	1/2	926.33	1/2	1,287.94	1/2	1,649.54	1/2	2,011.15	1/2	2,372.68	1/2	2,734.11	1/2	3,095.54	1/2	3,457.02
3/4	211.27	3/4	572.86	3/4	933.86	3/4	1,295.47	3/4	1,657.08	3/4	2,018.69	3/4	2,380.21	3/4	2,741.64	3/4	3,103.07	3/4	3,464.55
7	218.80	7	580.39	7	941.39	7	1,303.00	7	1,664.61	7	2,026.22	7	2,387.74	7	2,749.17	7	3,110.60	7	3,472.08
1/4	226.34	1/4	587.91	1/4	948.93	1/4	1,310.54	1/4	1,672.14	1/4	2,033.75	1/4	2,395.27	1/4	2,756.70	1/4	3,118.13	1/4	3,479.62
1/2	233.87	1/2	595.43	1/2	956.46	1/2	1,318.07	1/2	1,679.68	1/2	2,041.29	1/2	2,402.80	1/2	2,764.23	1/2	3,125.66	1/2	3,487.15
3/4	241.40	3/4	602.95	3/4	964.00	3/4	1,325.60	3/4	1,687.21	3/4	2,048.82	3/4	2,410.33	3/4	2,771.76	3/4	3,133.19	3/4	3,494.68
8	248.93	8	610.46	8	971.53	8	1,333.14	8	1,694.74	8	2,056.35	8	2,417.86	8	2,779.29	8	3,140.72	8	3,502.21
1/4	256.47	1/4	617.98	1/4	979.06	1/4	1,340.67	1/4	1,702.28	1/4	2,063.89	1/4	2,425.39	1/4	2,786.82	1/4	3,148.25	1/4	3,509.74
1/2	264.00	1/2	625.50	1/2	986.60	1/2	1,348.20	1/2	1,709.81	1/2	2,071.42	1/2	2,432.92	1/2	2,794.35	1/2	3,155.78	1/2	3,517.27
3/4	271.53	3/4	633.02	3/4	994.13	3/4	1,355.74	3/4	1,717.35	3/4	2,078.95	3/4	2,440.45	3/4	2,801.88	3/4	3,163.31	3/4	3,524.80
9	279.07	9	640.54	9	1,001.66	9	1,363.27	9	1,724.88	9	2,086.49	9	2,447.98	9	2,809.41	9	3,170.84	9	3,532.33
1/4	286.60	1/4	648.06	1/4	1,009.20	1/4	1,370.80	1/4	1,732.41	1/4	2,094.02	1/4	2,455.51	1/4	2,816.94	1/4	3,178.37	1/4	3,539.86
1/2	294.13	1/2	655.57	1/2	1,016.73	1/2	1,378.34	1/2	1,739.95	1/2	2,101.55	1/2	2,463.04	1/2	2,824.47	1/2	3,185.90	1/2	3,547.39
3/4	301.67	3/4	663.09	3/4	1,024.26	3/4	1,385.87	3/4	1,747.48	3/4	2,109.09	3/4	2,470.57	3/4	2,832.00	3/4	3,193.43	3/4	3,554.92
10	309.20	10	670.61	10	1,031.80	10	1,393.40	10	1,755.01	10	2,116.62	10	2,478.10	10	2,839.53	10	3,200.96	10	3,562.45
1/4	316.73	1/4	678.13	1/4	1,039.33	1/4	1,400.94	1/4	1,762.55	1/4	2,124.15	1/4	2,485.63	1/4	2,847.06	1/4	3,208.49	1/4	3,570.00
1/2	324.27	1/2	685.65	1/2	1,046.86	1/2	1,408.47	1/2	1,770.08	1/2	2,131.69	1/2	2,493.16	1/2	2,854.59	1/2	3,216.02	1/2	3,577.53
3/4	331.80	3/4	693.17	3/4	1,054.40	3/4	1,416.01	3/4	1,777.61	3/4	2,139.22	3/4	2,500.68	3/4	2,862.12	3/4	3,223.55	3/4	3,585.06
11	339.33	11	700.69	11	1,061.93	11	1,423.54	11	1,785.15	11	2,146.75	11	2,508.21	11	2,869.65	11	3,231.08	11	3,592.59
1/4	346.86	1/4	708.20	1/4	1,069.46	1/4	1,431.07	1/4	1,792.68	1/4	2,154.29	1/4	2,515.74	1/4	2,877.17	1/4	3,238.61	1/4	3,600.12
1/2	354.40	1/2	715.72	1/2	1,077.00	1/2	1,438.61	1/2	1,800.21	1/2	2,161.82	1/2	2,523.27	1/2	2,884.70	1/2	3,246.14	1/2	3,607.65
3/4	361.93	3/4	723.24	3/4	1,084.53	3/4	1,446.14	3/4	1,807.75	3/4	2,169.36	3/4	2,530.80	3/4	2,892.23	3/4	3,253.66	3/4	3,615.18

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 58'-00" FORWARD OF AFT BULKHEAD

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





BARGE "EMS 501"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,559.69	0	3,757.36	0	3,934.55	0	4,091.99	0		0		0		0		0		0	
1/4	3,563.99	1/4	3,761.24	1/4	3,938.02	1/4	4,095.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,568.30	1/2	3,765.12	1/2	3,941.48	1/2	4,098.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,572.61	3/4	3,769.00	3/4	3,944.95	3/4	4,101.16	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,576.92	1	3,772.88	1	3,948.42	1	4,104.22	1		1		1		1		1		1	
1/4	3,581.19	1/4	3,776.73	1/4	3,951.86	1/4	4,107.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,585.47	1/2	3,780.57	1/2	3,955.29	1/2	4,110.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,589.74	3/4	3,784.42	3/4	3,958.72	3/4	4,113.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,594.02	2	3,788.27	2	3,962.16	2	4,116.32	2		2		2		2		2		2	
1/4	3,598.25	1/4	3,792.08	1/4	3,965.56	1/4	4,119.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,602.49	1/2	3,795.89	1/2	3,968.96	1/2	4,122.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,606.73	3/4	3,799.70	3/4	3,972.36	3/4	4,125.28	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,610.97	3	3,803.51	3	3,975.76	3	4,128.27	3		3		3		3		3		3	
1/4	3,615.18	1/4	3,807.29	1/4	3,979.12	1/4	4,131.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,619.38	1/2	3,811.06	1/2	3,982.49	1/2	4,134.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.59	3/4	3,814.84	3/4	3,985.86	3/4	4,137.13	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,627.80	4	3,818.62	4	3,989.22	4	4,140.09	4		4		4		4		4		4	
1/4	3,631.97	1/4	3,822.36	1/4	3,992.55	1/4	4,144.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,636.14	1/2	3,826.10	1/2	3,995.89	1/2	4,148.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.31	3/4	3,829.85	3/4	3,999.22	3/4	4,153.22	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,644.48	5	3,833.59	5	4,002.55	5	4,157.60	5		5		5		5		5		5	
1/4	3,648.62	1/4	3,837.30	1/4	4,005.85	1/4	4,161.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,652.75	1/2	3,841.01	1/2	4,009.14	1/2	4,166.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,656.89	3/4	3,844.71	3/4	4,012.44	3/4	4,170.72	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,661.03	6	3,848.42	6	4,015.74	6	4,175.10	6		6		6		6		6		6	
1/4	3,665.13	1/4	3,852.10	1/4	4,019.00	1/4	4,179.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,669.23	1/2	3,855.77	1/2	4,022.26	1/2	4,183.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,673.34	3/4	3,859.45	3/4	4,025.53	3/4	4,188.23	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,677.44	7	3,863.12	7	4,028.79	7	4,192.61	7		7		7		7		7		7	
1/4	3,681.51	1/4	3,866.76	1/4	4,032.02	1/4	4,196.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,685.57	1/2	3,870.40	1/2	4,035.25	1/2	4,201.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.64	3/4	3,874.04	3/4	4,038.48	3/4	4,205.25	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,693.71	8	3,877.68	8	4,041.70	8	4,209.47	8		8		8		8		8		8	
1/4	3,697.75	1/4	3,881.28	1/4	4,044.90	1/4	4,213.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,701.78	1/2	3,884.89	1/2	4,048.09	1/2	4,216.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,705.81	3/4	3,888.50	3/4	4,051.29	3/4	4,220.06	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,709.85	9	3,892.10	9	4,054.48	9	4,223.59	9		9		9		9		9		9	
1/4	3,713.85	1/4	3,895.67	1/4	4,057.64	1/4	4,225.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.85	1/2	3,899.24	1/2	4,060.80	1/2	4,227.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.85	3/4	3,902.82	3/4	4,063.96	3/4	4,230.07	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,725.85	10	3,906.39	10	4,067.12	10	4,232.23	10		10		10		10		10		10	
1/4	3,729.81	1/4	3,909.92	1/4	4,070.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.78	1/2	3,913.46	1/2	4,073.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,737.74	3/4	3,917.00	3/4	4,076.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,741.71	11	3,920.54	11	4,079.63	11		11		11		11		11		11		11	
1/4	3,745.62	1/4	3,924.04	1/4	4,082.72	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,749.54	1/2	3,927.54	1/2	4,085.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,753.45	3/4	3,931.04	3/4	4,088.90	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 501"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.56	0	368.89	0	729.62	0	1,086.90	0	1,443.10	0	1,798.06	0	2,155.37	0	2,516.12	0	2,876.98	0	3,237.87
1/4	22.94	1/4	376.41	1/4	737.12	1/4	1,094.31	1/4	1,450.52	1/4	1,805.43	1/4	2,162.89	1/4	2,523.63	1/4	2,884.50	1/4	3,245.39
1/2	28.32	1/2	383.94	1/2	744.63	1/2	1,101.72	1/2	1,457.94	1/2	1,812.80	1/2	2,170.41	1/2	2,531.14	1/2	2,892.02	1/2	3,252.91
3/4	33.70	3/4	391.46	3/4	752.14	3/4	1,109.13	3/4	1,465.36	3/4	1,820.17	3/4	2,177.93	3/4	2,538.65	3/4	2,899.54	3/4	3,260.42
1	39.08	1	398.98	1	759.64	1	1,116.54	1	1,472.79	1	1,827.54	1	2,185.45	1	2,546.17	1	2,907.06	1	3,267.94
1/4	46.34	1/4	406.50	1/4	767.15	1/4	1,123.95	1/4	1,480.21	1/4	1,834.90	1/4	2,192.97	1/4	2,553.69	1/4	2,914.57	1/4	3,275.46
1/2	53.59	1/2	414.02	1/2	774.66	1/2	1,131.36	1/2	1,487.63	1/2	1,842.27	1/2	2,200.49	1/2	2,561.20	1/2	2,922.09	1/2	3,282.98
3/4	60.84	3/4	421.54	3/4	782.16	3/4	1,138.77	3/4	1,495.05	3/4	1,849.64	3/4	2,208.01	3/4	2,568.72	3/4	2,929.61	3/4	3,290.50
2	68.09	2	429.06	2	789.67	2	1,146.18	2	1,502.48	2	1,857.01	2	2,215.53	2	2,576.24	2	2,937.13	2	3,298.02
1/4	75.61	1/4	436.58	1/4	797.18	1/4	1,153.61	1/4	1,509.90	1/4	1,864.37	1/4	2,223.05	1/4	2,583.76	1/4	2,944.65	1/4	3,305.54
1/2	83.14	1/2	444.11	1/2	804.68	1/2	1,161.03	1/2	1,517.32	1/2	1,871.74	1/2	2,230.57	1/2	2,591.28	1/2	2,952.17	1/2	3,313.05
3/4	90.66	3/4	451.63	3/4	812.19	3/4	1,168.45	3/4	1,524.75	3/4	1,879.11	3/4	2,238.09	3/4	2,598.80	3/4	2,959.68	3/4	3,320.57
3	98.18	3	459.15	3	819.69	3	1,175.87	3	1,532.17	3	1,886.48	3	2,245.61	3	2,606.32	3	2,967.20	3	3,328.09
1/4	105.70	1/4	466.67	1/4	827.20	1/4	1,183.30	1/4	1,539.59	1/4	1,893.84	1/4	2,253.13	1/4	2,613.83	1/4	2,974.72	1/4	3,335.62
1/2	113.22	1/2	474.19	1/2	834.71	1/2	1,190.72	1/2	1,547.01	1/2	1,901.21	1/2	2,260.65	1/2	2,621.35	1/2	2,982.24	1/2	3,343.16
3/4	120.74	3/4	481.71	3/4	842.21	3/4	1,198.14	3/4	1,554.44	3/4	1,908.58	3/4	2,268.17	3/4	2,628.87	3/4	2,989.76	3/4	3,350.69
4	128.26	4	489.23	4	849.72	4	1,205.57	4	1,561.86	4	1,915.95	4	2,275.69	4	2,636.39	4	2,997.28	4	3,358.23
1/4	135.79	1/4	496.75	1/4	857.13	1/4	1,212.99	1/4	1,569.28	1/4	1,923.31	1/4	2,283.21	1/4	2,643.91	1/4	3,004.80	1/4	3,365.76
1/2	143.31	1/2	504.27	1/2	864.54	1/2	1,220.41	1/2	1,576.71	1/2	1,930.68	1/2	2,290.73	1/2	2,651.43	1/2	3,012.31	1/2	3,373.29
3/4	150.83	3/4	511.80	3/4	871.95	3/4	1,227.83	3/4	1,584.13	3/4	1,938.05	3/4	2,298.25	3/4	2,658.94	3/4	3,019.83	3/4	3,380.83
5	158.35	5	519.32	5	879.36	5	1,235.26	5	1,591.55	5	1,945.42	5	2,305.77	5	2,666.46	5	3,027.35	5	3,388.36
1/4	165.87	1/4	526.84	1/4	886.78	1/4	1,242.68	1/4	1,598.97	1/4	1,952.78	1/4	2,313.28	1/4	2,673.98	1/4	3,034.87	1/4	3,395.89
1/2	173.39	1/2	534.36	1/2	894.20	1/2	1,250.10	1/2	1,606.40	1/2	1,960.15	1/2	2,320.79	1/2	2,681.50	1/2	3,042.39	1/2	3,403.43
3/4	180.91	3/4	541.88	3/4	901.63	3/4	1,257.53	3/4	1,613.82	3/4	1,967.52	3/4	2,328.30	3/4	2,689.02	3/4	3,049.91	3/4	3,410.96
6	188.44	6	549.40	6	909.05	6	1,264.95	6	1,621.24	6	1,974.89	6	2,335.82	6	2,696.54	6	3,057.43	6	3,418.49
1/4	195.95	1/4	556.92	1/4	916.46	1/4	1,272.37	1/4	1,628.61	1/4	1,982.41	1/4	2,343.33	1/4	2,704.06	1/4	3,064.94	1/4	3,426.03
1/2	203.47	1/2	564.44	1/2	923.87	1/2	1,279.79	1/2	1,635.98	1/2	1,989.93	1/2	2,350.84	1/2	2,711.57	1/2	3,072.46	1/2	3,433.56
3/4	210.99	3/4	571.97	3/4	931.28	3/4	1,287.22	3/4	1,643.35	3/4	1,997.45	3/4	2,358.35	3/4	2,719.09	3/4	3,079.98	3/4	3,441.09
7	218.51	7	579.49	7	938.69	7	1,294.64	7	1,650.71	7	2,004.97	7	2,365.87	7	2,726.61	7	3,087.50	7	3,448.63
1/4	226.03	1/4	586.99	1/4	946.11	1/4	1,302.06	1/4	1,658.08	1/4	2,012.49	1/4	2,373.38	1/4	2,734.13	1/4	3,095.02	1/4	3,456.16
1/2	233.54	1/2	594.50	1/2	953.52	1/2	1,309.48	1/2	1,665.45	1/2	2,020.01	1/2	2,380.89	1/2	2,741.65	1/2	3,102.54	1/2	3,463.69
3/4	241.06	3/4	602.01	3/4	960.93	3/4	1,316.91	3/4	1,672.82	3/4	2,027.53	3/4	2,388.40	3/4	2,749.17	3/4	3,110.05	3/4	3,471.22
8	248.58	8	609.51	8	968.34	8	1,324.33	8	1,680.18	8	2,035.05	8	2,395.92	8	2,756.69	8	3,117.57	8	3,478.75
1/4	256.10	1/4	617.02	1/4	975.75	1/4	1,331.75	1/4	1,687.55	1/4	2,042.57	1/4	2,403.43	1/4	2,764.20	1/4	3,125.09	1/4	3,486.28
1/2	263.62	1/2	624.53	1/2	983.16	1/2	1,339.18	1/2	1,694.92	1/2	2,050.09	1/2	2,410.94	1/2	2,771.72	1/2	3,132.61	1/2	3,493.81
3/4	271.14	3/4	632.03	3/4	990.57	3/4	1,346.60	3/4	1,702.29	3/4	2,057.61	3/4	2,418.45	3/4	2,779.24	3/4	3,140.13	3/4	3,501.34
9	278.67	9	639.54	9	997.98	9	1,354.02	9	1,709.65	9	2,065.13	9	2,425.97	9	2,786.76	9	3,147.65	9	3,508.87
1/4	286.18	1/4	647.05	1/4	1,005.39	1/4	1,361.44	1/4	1,717.02	1/4	2,072.65	1/4	2,433.48	1/4	2,794.28	1/4	3,155.17	1/4	3,516.40
1/2	293.70	1/2	654.55	1/2	1,012.80	1/2	1,368.87	1/2	1,724.39	1/2	2,080.17	1/2	2,440.99	1/2	2,801.80	1/2	3,162.68	1/2	3,523.93
3/4	301.22	3/4	662.06	3/4	1,020.21	3/4	1,376.29	3/4	1,731.76	3/4	2,087.69	3/4	2,448.50	3/4	2,809.31	3/4	3,170.20	3/4	3,531.46
10	308.74	10	669.56	10	1,027.62	10	1,383.71	10	1,739.12	10	2,095.21	10	2,456.02	10	2,816.83	10	3,177.72	10	3,539.00
1/4	316.25	1/4	677.07	1/4	1,035.03	1/4	1,391.14	1/4	1,746.49	1/4	2,102.73	1/4	2,463.53	1/4	2,824.35	1/4	3,185.24	1/4	3,546.53
1/2	323.77	1/2	684.58	1/2	1,042.44	1/2	1,398.56	1/2	1,753.86	1/2	2,110.25	1/2	2,471.04	1/2	2,831.87	1/2	3,192.76	1/2	3,554.06
3/4	331.29	3/4	692.08	3/4	1,049.85	3/4	1,405.98	3/4	1,761.23	3/4	2,117.77	3/4	2,478.55	3/4	2,839.39	3/4	3,200.28	3/4	3,561.59
11	338.81	11	699.59	11	1,057.26	11	1,413.40	11	1,768.59	11	2,125.29	11	2,486.07	11	2,846.91	11	3,207.80	11	3,569.12
1/4	346.33	1/4	707.10	1/4	1,064.67	1/4	1,420.83	1/4	1,775.96	1/4	2,132.81	1/4	2,493.58	1/4	2,854.43	1/4	3,215.31	1/4	3,576.65
1/2	353.85	1/2	714.60	1/2	1,072.08	1/2	1,428.25	1/2	1,783.33	1/2	2,140.33	1/2	2,501.09	1/2	2,861.94	1/2	3,222.83	1/2	3,584.18
3/4	361.37	3/4	722.11	3/4	1,079.49	3/4	1,435.67	3/4	1,790.70	3/4	2,147.85	3/4	2,508.60	3/4	2,869.46	3/4	3,230.35	3/4	3,591.71

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 58'-00" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 501"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,573.33	0	3,860.06	0	4,126.29	0	4,372.79	0		0		0		0		0		0	
1/4	3,579.50	1/4	3,865.80	1/4	4,131.62	1/4	4,377.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,585.66	1/2	3,871.53	1/2	4,136.94	1/2	4,382.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,591.82	3/4	3,877.27	3/4	4,142.26	3/4	4,387.52	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,597.99	1	3,883.00	1	4,147.59	1	4,392.44	1		1		1		1		1		1	
1/4	3,604.12	1/4	3,888.70	1/4	4,152.88	1/4	4,397.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,610.25	1/2	3,894.40	1/2	4,158.17	1/2	4,402.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,616.38	3/4	3,900.10	3/4	4,163.46	3/4	4,407.07	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,622.50	2	3,905.80	2	4,168.74	2	4,411.95	2		2		2		2		2		2	
1/4	3,628.60	1/4	3,911.47	1/4	4,174.00	1/4	4,416.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,634.69	1/2	3,917.14	1/2	4,179.26	1/2	4,421.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.79	3/4	3,922.80	3/4	4,184.51	3/4	4,426.48	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,646.88	3	3,928.47	3	4,189.77	3	4,431.33	3		3		3		3		3		3	
1/4	3,652.94	1/4	3,934.10	1/4	4,194.99	1/4	4,436.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.01	1/2	3,939.73	1/2	4,200.21	1/2	4,440.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,665.07	3/4	3,945.37	3/4	4,205.43	3/4	4,445.76	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,671.13	4	3,951.00	4	4,210.65	4	4,450.56	4		4		4		4		4		4	
1/4	3,677.15	1/4	3,956.60	1/4	4,215.84	1/4	4,455.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,683.18	1/2	3,962.19	1/2	4,221.02	1/2	4,463.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.21	3/4	3,967.79	3/4	4,226.21	3/4	4,469.26	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,695.23	5	3,973.39	5	4,231.40	5	4,475.49	5		5		5		5		5		5	
1/4	3,701.22	1/4	3,978.95	1/4	4,236.55	1/4	4,481.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.22	1/2	3,984.52	1/2	4,241.70	1/2	4,487.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.21	3/4	3,990.08	3/4	4,246.85	3/4	4,494.19	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,719.20	6	3,995.64	6	4,252.01	6	4,500.42	6		6		6		6		6		6	
1/4	3,725.16	1/4	4,001.17	1/4	4,257.12	1/4	4,506.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.12	1/2	4,006.70	1/2	4,262.24	1/2	4,512.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,737.07	3/4	4,012.23	3/4	4,267.36	3/4	4,519.11	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,743.03	7	4,017.76	7	4,272.48	7	4,525.35	7		7		7		7		7		7	
1/4	3,748.95	1/4	4,023.26	1/4	4,277.56	1/4	4,531.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,754.88	1/2	4,028.75	1/2	4,282.65	1/2	4,537.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,760.80	3/4	4,034.25	3/4	4,287.73	3/4	4,543.56	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,766.72	8	4,039.74	8	4,292.81	8	4,549.63	8		8		8		8		8		8	
1/4	3,772.61	1/4	4,045.20	1/4	4,297.86	1/4	4,555.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,778.50	1/2	4,050.66	1/2	4,302.91	1/2	4,560.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,784.39	3/4	4,056.12	3/4	4,307.96	3/4	4,565.78	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,790.28	9	4,061.58	9	4,313.01	9	4,571.17	9		9		9		9		9		9	
1/4	3,796.14	1/4	4,067.01	1/4	4,318.03	1/4	4,575.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,801.99	1/2	4,072.44	1/2	4,323.04	1/2	4,579.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,807.85	3/4	4,077.86	3/4	4,328.06	3/4	4,583.22	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,813.70	10	4,083.29	10	4,333.07	10	4,587.23	10		10		10		10		10		10	
1/4	3,819.52	1/4	4,088.68	1/4	4,338.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,825.34	1/2	4,094.08	1/2	4,343.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,831.16	3/4	4,099.47	3/4	4,348.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,836.98	11	4,104.86	11	4,353.00	11		11		11		11		11		11		11	
1/4	3,842.75	1/4	4,110.22	1/4	4,357.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.52	1/2	4,115.58	1/2	4,362.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,854.29	3/4	4,120.93	3/4	4,367.84	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 501"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	110	0	280	0	449	0		0		0		0		0		0	
1/4	1	1/4	113	1/4	284	1/4	452	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	116	1/2	287	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	119	3/4	291	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	123	1	295	1	462	1		1		1		1		1		1	
1/4	4	1/4	126	1/4	298	1/4	465	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	129	1/2	302	1/2	468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	133	3/4	306	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	136	2	309	2	474	2		2		2		2		2		2	
1/4	10	1/4	139	1/4	313	1/4	477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	143	1/2	317	1/2	479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	146	3/4	320	3/4	482	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	150	3	324	3	485	3		3		3		3		3		3	
1/4	17	1/4	153	1/4	328	1/4	488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	18	1/2	157	1/2	331	1/2	491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	20	3/4	160	3/4	335	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
4	22	4	163	4	339	4	496	4		4		4		4		4		4	
1/4	24	1/4	167	1/4	342	1/4	499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	171	1/2	346	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	174	3/4	350	3/4	504	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	178	5	353	5	507	5		5		5		5		5		5	
1/4	33	1/4	181	1/4	357	1/4	509	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	185	1/2	360	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	38	3/4	188	3/4	364	3/4	514	3/4		3/4		3/4		3/4		3/4		3/4	
6	40	6	192	6	368	6	517	6		6		6		6		6		6	
1/4	43	1/4	195	1/4	371	1/4	519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	199	1/2	375	1/2	521	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48	3/4	203	3/4	378	3/4	524	3/4		3/4		3/4		3/4		3/4		3/4	
7	51	7	206	7	382	7	526	7		7		7		7		7		7	
1/4	53	1/4	210	1/4	385	1/4	528	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	214	1/2	389	1/2	530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	59	3/4	217	3/4	392	3/4	532	3/4		3/4		3/4		3/4		3/4		3/4	
8	61	8	221	8	396	8	534	8		8		8		8		8		8	
1/4	64	1/4	225	1/4	399	1/4	536	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67	1/2	228	1/2	403	1/2	538	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	232	3/4	406	3/4	539	3/4		3/4		3/4		3/4		3/4		3/4	
9	73	9	236	9	410	9	541	9		9		9		9		9		9	
1/4	76	1/4	239	1/4	413	1/4	543	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	79	1/2	243	1/2	416	1/2	544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	247	3/4	420	3/4	546	3/4		3/4		3/4		3/4		3/4		3/4	
10	85	10	250	10	423	10	547	10		10		10		10		10		10	
1/4	88	1/4	254	1/4	426	1/4	548	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	91	1/2	258	1/2	430	1/2	549	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	94	3/4	261	3/4	433	3/4	550	3/4		3/4		3/4		3/4		3/4		3/4	
11	97	11	265	11	436	11	551	11		11		11		11		11		11	
1/4	100	1/4	269	1/4	439	1/4	552	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	103	1/2	272	1/2	443	1/2	552	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	106	3/4	276	3/4	446	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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
GAUGE POINT: TOP LIP OF 8" HATCH OPPOSITE HINGE.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/23/2016 CL

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BARGE "EMS 501"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 3'-00"

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	1,091	0	2,182	0		0		0		0		0		0		0	
1/4	23	1/4	1,114	1/4	2,205	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,137	1/2	2,228	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	68	3/4	1,159	3/4	2,250	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	91	1	1,182	1	2,273	1		1		1		1		1		1		1	
1/4	114	1/4	1,205	1/4	2,296	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	136	1/2	1,228	1/2	2,319	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159	3/4	1,250	3/4	2,341	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	182	2	1,273	2	2,364	2		2		2		2		2		2		2	
1/4	205	1/4	1,296	1/4	2,387	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	227	1/2	1,318	1/2	2,410	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	250	3/4	1,341	3/4	2,432	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	273	3	1,364	3	2,455	3		3		3		3		3		3		3	
1/4	296	1/4	1,387	1/4	2,478	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	1,409	1/2	2,500	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	341	3/4	1,432	3/4	2,523	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	364	4	1,455	4	2,546	4		4		4		4		4		4		4	
1/4	386	1/4	1,478	1/4	2,569	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	409	1/2	1,500	1/2	2,591	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	432	3/4	1,523	3/4	2,614	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	455	5	1,546	5	2,637	5		5		5		5		5		5		5	
1/4	477	1/4	1,568	1/4	2,660	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	500	1/2	1,591	1/2	2,682	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	523	3/4	1,614	3/4	2,705	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	546	6	1,637	6	2,728	6		6		6		6		6		6		6	
1/4	568	1/4	1,659	1/4	2,751	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	591	1/2	1,682	1/2	2,773	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	614	3/4	1,705	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	636	7	1,728	7		7		7		7		7		7		7		7	
1/4	659	1/4	1,750	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	682	1/2	1,773	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	705	3/4	1,796	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	727	8	1,819	8		8		8		8		8		8		8		8	
1/4	750	1/4	1,841	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	773	1/2	1,864	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	796	3/4	1,887	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	818	9	1,909	9		9		9		9		9		9		9		9	
1/4	841	1/4	1,932	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	864	1/2	1,955	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	887	3/4	1,978	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	909	10	2,000	10		10		10		10		10		10		10		10	
1/4	932	1/4	2,023	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	955	1/2	2,046	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	977	3/4	2,069	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	1,000	11	2,091	11		11		11		11		11		11		11		11	
1/4	1,023	1/4	2,114	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,046	1/2	2,137	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,068	3/4	2,160	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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
GAUGE POINT: TOP LIP OF MANWAY OPPOSITE HINGE

STRAPPED: 11/18/2016 SW
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BARGE "EMS 501"

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 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	02-0/8	- 02-0/8	02-3/8	- 02-3/8
1 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
3 PORT	00-3/4	- 00-3/4	01-1/2	- 01-1/2	02-1/8	- 02-1/8	02-7/8	- 02-7/8	03-5/8	- 03-5/8	04-3/8	- 04-3/8
3 STBD	00-3/4	- 00-3/4	01-1/2	- 01-1/2	02-1/8	- 02-1/8	02-7/8	- 02-7/8	03-5/8	- 03-5/8	04-3/8	- 04-3/8

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

LENGTH BETWEEN DRAFT MARKS: 245'-00"

November 23, 2016

PRECISION MEASUREMENT
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BARGE "EMS 501"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,611.20	0	4,309.72	0	3,991.44	0	3,653.01	0	3,296.56	0	2,937.21	0	2,577.87
1/4		1/4		1/4		1/4	4,603.74	1/4	4,303.30	1/4	3,984.61	1/4	3,645.74	1/4	3,289.07	1/4	2,929.73	1/4	2,570.38
1/2		1/2		1/2		1/2	4,596.27	1/2	4,296.87	1/2	3,977.77	1/2	3,638.48	1/2	3,281.58	1/2	2,922.24	1/2	2,562.90
3/4		3/4		3/4		3/4	4,590.22	3/4	4,290.41	3/4	3,970.90	3/4	3,631.18	3/4	3,274.10	3/4	2,914.75	3/4	2,555.41
1		1		1		1	4,584.17	1	4,283.95	1	3,964.03	1	3,623.88	1	3,266.61	1	2,907.27	1	2,547.93
1/4		1/4		1/4		1/4	4,578.12	1/4	4,277.49	1/4	3,957.16	1/4	3,616.59	1/4	3,259.12	1/4	2,899.78	1/4	2,540.44
1/2		1/2		1/2		1/2	4,572.07	1/2	4,271.03	1/2	3,950.29	1/2	3,609.29	1/2	3,251.64	1/2	2,892.30	1/2	2,532.95
3/4		3/4		3/4		3/4	4,565.99	3/4	4,264.54	3/4	3,943.39	3/4	3,601.96	3/4	3,244.15	3/4	2,884.81	3/4	2,525.47
2		2		2		2	4,559.90	2	4,258.05	2	3,936.48	2	3,594.62	2	3,236.67	2	2,877.32	2	2,517.98
1/4		1/4		1/4		1/4	4,553.82	1/4	4,251.55	1/4	3,929.58	1/4	3,587.29	1/4	3,229.18	1/4	2,869.84	1/4	2,510.49
1/2		1/2		1/2		1/2	4,547.74	1/2	4,245.06	1/2	3,922.67	1/2	3,579.96	1/2	3,221.69	1/2	2,862.35	1/2	2,503.01
3/4		3/4		3/4		3/4	4,541.62	3/4	4,238.53	3/4	3,915.73	3/4	3,572.59	3/4	3,214.21	3/4	2,854.86	3/4	2,495.52
3		3		3		3	4,535.50	3	4,232.00	3	3,908.80	3	3,565.22	3	3,206.72	3	2,847.38	3	2,488.04
1/4		1/4		1/4		1/4	4,529.38	1/4	4,225.47	1/4	3,901.86	1/4	3,557.86	1/4	3,199.23	1/4	2,839.89	1/4	2,480.55
1/2		1/2		1/2		1/2	4,523.27	1/2	4,218.95	1/2	3,894.92	1/2	3,550.49	1/2	3,191.75	1/2	2,832.41	1/2	2,473.06
3/4		3/4		3/4		3/4	4,517.11	3/4	4,212.38	3/4	3,887.94	3/4	3,543.09	3/4	3,184.26	3/4	2,824.92	3/4	2,465.58
4		4		4		4	4,510.96	4	4,205.82	4	3,880.97	4	3,535.69	4	3,176.78	4	2,817.43	4	2,458.09
1/4		1/4		1/4		1/4	4,504.81	1/4	4,199.26	1/4	3,874.00	1/4	3,528.29	1/4	3,169.29	1/4	2,809.95	1/4	2,450.60
1/2		1/2		1/2		1/2	4,498.66	1/2	4,192.70	1/2	3,867.03	1/2	3,520.89	1/2	3,161.80	1/2	2,802.46	1/2	2,443.12
3/4		3/4		3/4		3/4	4,492.47	3/4	4,186.10	3/4	3,860.02	3/4	3,513.45	3/4	3,154.32	3/4	2,794.97	3/4	2,435.63
5		5		5		5	4,486.29	5	4,179.50	5	3,853.01	5	3,506.02	5	3,146.83	5	2,787.49	5	2,428.15
1/4		1/4		1/4		1/4	4,480.10	1/4	4,172.91	1/4	3,846.00	1/4	3,498.58	1/4	3,139.34	1/4	2,780.00	1/4	2,420.66
1/2		1/2		1/2		1/2	4,473.91	1/2	4,166.31	1/2	3,839.00	1/2	3,491.15	1/2	3,131.86	1/2	2,772.51	1/2	2,413.17
3/4		3/4		3/4		3/4	4,467.69	3/4	4,159.68	3/4	3,831.94	3/4	3,483.67	3/4	3,124.37	3/4	2,765.03	3/4	2,405.69
6		6		6		6	4,461.47	6	4,153.05	6	3,824.88	6	3,476.20	6	3,116.88	6	2,757.54	6	2,398.20
1/4		1/4		1/4		1/4	4,455.25	1/4	4,146.42	1/4	3,817.82	1/4	3,468.73	1/4	3,109.40	1/4	2,750.06	1/4	2,390.71
1/2		1/2		1/2		1/2	4,762.71	1/2	4,449.03	1/2	3,810.76	1/2	3,461.25	1/2	3,101.91	1/2	2,742.57	1/2	2,383.23
3/4		3/4		3/4		3/4	4,757.44	3/4	4,442.78	3/4	3,803.67	3/4	3,453.77	3/4	3,094.43	3/4	2,735.08	3/4	2,375.74
7		7		7		7	4,752.18	7	4,436.52	7	3,796.58	7	3,446.28	7	3,086.94	7	2,727.60	7	2,368.25
1/4		1/4		1/4		1/4	4,746.91	1/4	4,430.27	1/4	3,789.48	1/4	3,438.80	1/4	3,079.45	1/4	2,720.11	1/4	2,360.77
1/2		1/2		1/2		1/2	4,741.65	1/2	4,424.02	1/2	3,782.39	1/2	3,431.31	1/2	3,071.97	1/2	2,712.62	1/2	2,353.28
3/4		3/4		3/4		3/4	4,735.02	3/4	4,417.73	3/4	3,775.26	3/4	3,423.82	3/4	3,064.48	3/4	2,705.14	3/4	2,345.80
8		8		8		8	4,728.39	8	4,411.44	8	3,768.14	8	3,416.34	8	3,056.99	8	2,697.65	8	2,338.31
1/4		1/4		1/4		1/4	4,721.76	1/4	4,405.15	1/4	3,761.01	1/4	3,408.85	1/4	3,049.51	1/4	2,690.17	1/4	2,330.82
1/2		1/2		1/2		1/2	4,715.13	1/2	4,398.86	1/2	3,753.88	1/2	3,401.36	1/2	3,042.02	1/2	2,682.68	1/2	2,323.34
3/4		3/4		3/4		3/4	4,707.82	3/4	4,392.54	3/4	3,746.72	3/4	3,393.88	3/4	3,034.54	3/4	2,675.19	3/4	2,315.85
9		9		9		9	4,700.51	9	4,386.22	9	3,739.56	9	3,386.39	9	3,027.05	9	2,667.71	9	2,308.36
1/4		1/4		1/4		1/4	4,693.20	1/4	4,379.89	1/4	3,732.40	1/4	3,378.91	1/4	3,019.56	1/4	2,660.22	1/4	2,300.88
1/2		1/2		1/2		1/2	4,685.90	1/2	4,373.57	1/2	3,725.24	1/2	3,371.42	1/2	3,012.08	1/2	2,652.73	1/2	2,293.39
3/4		3/4		3/4		3/4	4,678.43	3/4	4,367.21	3/4	3,718.04	3/4	3,363.93	3/4	3,004.59	3/4	2,645.25	3/4	2,285.91
10		10		10		10	4,670.96	10	4,360.86	10	3,710.85	10	3,356.45	10	2,997.10	10	2,637.76	10	2,278.42
1/4		1/4		1/4		1/4	4,663.49	1/4	4,354.50	1/4	3,703.65	1/4	3,348.96	1/4	2,989.62	1/4	2,630.28	1/4	2,270.93
1/2		1/2		1/2		1/2	4,656.02	1/2	4,348.14	1/2	3,696.45	1/2	3,341.47	1/2	2,982.13	1/2	2,622.79	1/2	2,263.45
3/4		3/4		3/4		3/4	4,648.55	3/4	4,341.75	3/4	3,689.23	3/4	3,333.99	3/4	2,974.64	3/4	2,615.30	3/4	2,255.96
11		11		11		11	4,641.08	11	4,335.36	11	3,682.00	11	3,326.50	11	2,967.16	11	2,607.82	11	2,248.47
1/4		1/4		1/4		1/4	4,633.61	1/4	4,328.97	1/4	3,674.77	1/4	3,319.01	1/4	2,959.67	1/4	2,600.33	1/4	2,240.99
1/2		1/2		1/2		1/2	4,626.14	1/2	4,322.58	1/2	3,667.54	1/2	3,311.53	1/2	2,952.19	1/2	2,592.84	1/2	2,233.50
3/4		3/4		3/4		3/4	4,618.67	3/4	4,316.15	3/4	3,660.27	3/4	3,304.04	3/4	2,944.70	3/4	2,585.36	3/4	2,226.01

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 501"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,218.53	0	1,859.19	0	1,499.84	0	1,140.50	0	781.19	0	425.50	0	104.04	0		0		0	
1/4	2,211.04	1/4	1,851.70	1/4	1,492.36	1/4	1,133.02	1/4	773.72	1/4	418.35	1/4	97.79	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,203.56	1/2	1,844.21	1/2	1,484.87	1/2	1,125.53	1/2	766.25	1/2	411.20	1/2	91.54	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,196.07	3/4	1,836.73	3/4	1,477.38	3/4	1,118.04	3/4	758.78	3/4	404.13	3/4	85.37	3/4	3/4	3/4	3/4	3/4	3/4
1	2,188.58	1	1,829.24	1	1,469.90	1	1,110.56	1	751.30	1	397.06	1	79.20	1	1	1	1	1	1
1/4	2,181.10	1/4	1,821.75	1/4	1,462.41	1/4	1,103.07	1/4	743.83	1/4	389.99	1/4	73.03	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,173.61	1/2	1,814.27	1/2	1,454.93	1/2	1,095.58	1/2	736.36	1/2	382.91	1/2	66.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,166.12	3/4	1,806.78	3/4	1,447.44	3/4	1,088.10	3/4	728.89	3/4	375.91	3/4	60.76	3/4	3/4	3/4	3/4	3/4	3/4
2	2,158.64	2	1,799.30	2	1,439.95	2	1,080.61	2	721.42	2	368.92	2	54.67	2	2	2	2	2	2
1/4	2,151.15	1/4	1,791.81	1/4	1,432.47	1/4	1,073.12	1/4	713.95	1/4	361.92	1/4	48.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,143.67	1/2	1,784.32	1/2	1,424.98	1/2	1,065.64	1/2	706.48	1/2	354.92	1/2	42.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,136.18	3/4	1,776.84	3/4	1,417.49	3/4	1,058.15	3/4	699.00	3/4	348.00	3/4	36.72	3/4	3/4	3/4	3/4	3/4	3/4
3	2,128.69	3	1,769.35	3	1,410.01	3	1,050.67	3	691.53	3	341.08	3	30.97	3	3	3	3	3	3
1/4	2,121.21	1/4	1,761.86	1/4	1,402.52	1/4	1,043.18	1/4	684.06	1/4	334.15	1/4	25.21	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,113.72	1/2	1,754.38	1/2	1,395.04	1/2	1,035.69	1/2	676.59	1/2	327.23	1/2	19.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,106.23	3/4	1,746.89	3/4	1,387.55	3/4	1,028.21	3/4	669.12	3/4	320.38	3/4	15.65	3/4	3/4	3/4	3/4	3/4	3/4
4	2,098.75	4	1,739.41	4	1,380.06	4	1,020.72	4	661.65	4	313.54	4	11.85	4	4	4	4	4	4
1/4	2,091.26	1/4	1,731.92	1/4	1,372.58	1/4	1,013.23	1/4	654.18	1/4	306.69	1/4	8.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,083.78	1/2	1,724.43	1/2	1,365.09	1/2	1,005.75	1/2	646.71	1/2	299.84	1/2	4.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,076.29	3/4	1,716.95	3/4	1,357.60	3/4	998.26	3/4	639.23	3/4	293.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,068.80	5	1,709.46	5	1,350.12	5	990.78	5	631.76	5	286.30	5		5	5	5	5	5	5
1/4	2,061.32	1/4	1,701.97	1/4	1,342.63	1/4	983.29	1/4	624.29	1/4	279.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,053.83	1/2	1,694.49	1/2	1,335.15	1/2	975.80	1/2	616.82	1/2	272.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,046.34	3/4	1,687.00	3/4	1,327.66	3/4	968.32	3/4	609.35	3/4	266.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,038.86	6	1,679.51	6	1,320.17	6	960.83	6	601.88	6	259.36	6		6	6	6	6	6	6
1/4	2,031.37	1/4	1,672.03	1/4	1,312.69	1/4	953.34	1/4	594.41	1/4	252.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,023.88	1/2	1,664.54	1/2	1,305.20	1/2	945.86	1/2	586.94	1/2	245.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,016.40	3/4	1,657.06	3/4	1,297.71	3/4	938.37	3/4	579.46	3/4	239.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,008.91	7	1,649.57	7	1,290.23	7	930.88	7	571.99	7	232.72	7		7	7	7	7	7	7
1/4	2,001.43	1/4	1,642.08	1/4	1,282.74	1/4	923.40	1/4	564.52	1/4	226.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,993.94	1/2	1,634.60	1/2	1,275.25	1/2	915.91	1/2	557.05	1/2	219.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,986.45	3/4	1,627.11	3/4	1,267.77	3/4	908.43	3/4	549.62	3/4	212.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,978.97	8	1,619.62	8	1,260.28	8	900.94	8	542.18	8	206.38	8		8	8	8	8	8	8
1/4	1,971.48	1/4	1,612.14	1/4	1,252.80	1/4	893.45	1/4	534.75	1/4	199.83	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,963.99	1/2	1,604.65	1/2	1,245.31	1/2	885.97	1/2	527.32	1/2	193.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,956.51	3/4	1,597.17	3/4	1,237.82	3/4	878.48	3/4	519.96	3/4	186.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,949.02	9	1,589.68	9	1,230.34	9	870.99	9	512.60	9	180.34	9		9	9	9	9	9	9
1/4	1,941.54	1/4	1,582.19	1/4	1,222.85	1/4	863.51	1/4	505.24	1/4	173.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,934.05	1/2	1,574.71	1/2	1,215.36	1/2	856.02	1/2	497.88	1/2	167.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,926.56	3/4	1,567.22	3/4	1,207.88	3/4	848.54	3/4	490.58	3/4	161.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,919.08	10	1,559.73	10	1,200.39	10	841.05	10	483.28	10	154.61	10		10	10	10	10	10	10
1/4	1,911.59	1/4	1,552.25	1/4	1,192.91	1/4	833.56	1/4	475.99	1/4	148.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,904.10	1/2	1,544.76	1/2	1,185.42	1/2	826.08	1/2	468.69	1/2	141.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,896.62	3/4	1,537.28	3/4	1,177.93	3/4	818.59	3/4	461.46	3/4	135.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,889.13	11	1,529.79	11	1,170.45	11	811.10	11	454.24	11	129.17	11		11	11	11	11	11	11
1/4	1,881.65	1/4	1,522.30	1/4	1,162.96	1/4	803.62	1/4	447.02	1/4	122.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,874.16	1/2	1,514.82	1/2	1,155.47	1/2	796.13	1/2	439.80	1/2	116.53	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,866.67	3/4	1,507.33	3/4	1,147.99	3/4	788.66	3/4	432.65	3/4	110.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
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BARGE "EMS 501"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,627.28	0	4,323.56	0	4,005.95	0	3,668.21	0	3,312.05	0	2,952.53	0	2,593.01
1/4		1/4		1/4		1/4	4,619.80	1/4	4,317.13	1/4	3,999.11	1/4	3,660.94	1/4	3,304.56	1/4	2,945.04	1/4	2,585.52
1/2		1/2		1/2		1/2	4,612.33	1/2	4,310.70	1/2	3,992.27	1/2	3,653.67	1/2	3,297.07	1/2	2,937.55	1/2	2,578.03
3/4		3/4		3/4		3/4	4,604.86	3/4	4,304.28	3/4	3,985.43	3/4	3,646.40	3/4	3,289.58	3/4	2,930.06	3/4	2,570.54
1		1		1		1	4,597.39	1	4,297.85	1	3,978.59	1	3,639.14	1	3,282.09	1	2,922.57	1	2,563.05
1/4		1/4		1/4		1/4	4,591.33	1/4	4,291.38	1/4	3,971.72	1/4	3,631.83	1/4	3,274.60	1/4	2,915.08	1/4	2,555.56
1/2		1/2		1/2		1/2	4,585.28	1/2	4,284.92	1/2	3,964.84	1/2	3,624.53	1/2	3,267.11	1/2	2,907.59	1/2	2,548.07
3/4		3/4		3/4		3/4	4,579.23	3/4	4,278.46	3/4	3,957.97	3/4	3,617.23	3/4	3,259.62	3/4	2,900.10	3/4	2,540.58
2		2		2		2	4,573.18	2	4,272.00	2	3,951.10	2	3,609.93	2	3,252.13	2	2,892.61	2	2,533.09
1/4		1/4		1/4		1/4	4,567.09	1/4	4,265.50	1/4	3,944.19	1/4	3,602.59	1/4	3,244.64	1/4	2,885.12	1/4	2,525.60
1/2		1/2		1/2		1/2	4,561.00	1/2	4,259.00	1/2	3,937.28	1/2	3,595.26	1/2	3,237.15	1/2	2,877.63	1/2	2,518.11
3/4		3/4		3/4		3/4	4,554.92	3/4	4,252.50	3/4	3,930.37	3/4	3,587.92	3/4	3,229.66	3/4	2,870.14	3/4	2,510.62
3		3		3		3	4,548.83	3	4,246.01	3	3,923.47	3	3,580.59	3	3,222.17	3	2,862.65	3	2,503.13
1/4		1/4		1/4		1/4	4,542.71	1/4	4,239.48	1/4	3,916.52	1/4	3,573.21	1/4	3,214.68	1/4	2,855.16	1/4	2,495.64
1/2		1/2		1/2		1/2	4,536.59	1/2	4,232.94	1/2	3,909.58	1/2	3,565.84	1/2	3,207.19	1/2	2,847.67	1/2	2,488.15
3/4		3/4		3/4		3/4	4,530.47	3/4	4,226.41	3/4	3,902.64	3/4	3,558.47	3/4	3,199.70	3/4	2,840.18	3/4	2,480.66
4		4		4		4	4,524.35	4	4,219.88	4	3,895.70	4	3,551.10	4	3,192.21	4	2,832.69	4	2,473.17
1/4		1/4		1/4		1/4	4,518.19	1/4	4,213.32	1/4	3,888.72	1/4	3,543.70	1/4	3,184.72	1/4	2,825.20	1/4	2,465.68
1/2		1/2		1/2		1/2	4,512.04	1/2	4,206.75	1/2	3,881.74	1/2	3,536.30	1/2	3,177.23	1/2	2,817.71	1/2	2,458.19
3/4		3/4		3/4		3/4	4,505.89	3/4	4,200.19	3/4	3,874.77	3/4	3,528.89	3/4	3,169.74	3/4	2,810.22	3/4	2,450.70
5		5		5		5	4,499.73	5	4,193.62	5	3,867.79	5	3,521.49	5	3,162.25	5	2,802.73	5	2,443.21
1/4		1/4		1/4		1/4	4,493.54	1/4	4,187.02	1/4	3,860.78	1/4	3,514.05	1/4	3,154.76	1/4	2,795.24	1/4	2,435.72
1/2		1/2		1/2		1/2	4,487.35	1/2	4,180.42	1/2	3,853.77	1/2	3,506.61	1/2	3,147.27	1/2	2,787.75	1/2	2,428.23
3/4		3/4		3/4		3/4	4,481.16	3/4	4,173.82	3/4	3,846.76	3/4	3,499.17	3/4	3,139.78	3/4	2,780.26	3/4	2,420.74
6		6		6		6	4,474.97	6	4,167.22	6	3,839.75	6	3,491.73	6	3,132.29	6	2,772.77	6	2,413.25
1/4		1/4		1/4		1/4	4,468.75	1/4	4,160.59	1/4	3,832.69	1/4	3,484.26	1/4	3,124.80	1/4	2,765.28	1/4	2,405.76
1/2		1/2		1/2		1/2	4,462.53	1/2	4,153.95	1/2	3,825.63	1/2	3,476.79	1/2	3,117.31	1/2	2,757.79	1/2	2,398.27
3/4		3/4		3/4		3/4	4,456.30	3/4	4,147.32	3/4	3,818.56	3/4	3,469.32	3/4	3,109.82	3/4	2,750.30	3/4	2,390.78
7		7		7	4,763.91	7	4,450.08	7	4,140.68	7	3,811.50	7	3,461.85	7	3,102.33	7	2,742.81	7	2,383.29
1/4		1/4		1/4	4,758.64	1/4	4,443.82	1/4	4,134.02	1/4	3,804.40	1/4	3,454.36	1/4	3,094.84	1/4	2,735.32	1/4	2,375.80
1/2		1/2		1/2	4,753.37	1/2	4,437.57	1/2	4,127.35	1/2	3,797.31	1/2	3,446.87	1/2	3,087.35	1/2	2,727.83	1/2	2,368.31
3/4		3/4		3/4	4,748.10	3/4	4,431.31	3/4	4,120.68	3/4	3,790.21	3/4	3,439.38	3/4	3,079.86	3/4	2,720.34	3/4	2,360.82
8		8		8	4,742.83	8	4,425.05	8	4,114.01	8	3,783.12	8	3,431.89	8	3,072.37	8	2,712.85	8	2,353.33
1/4		1/4		1/4	4,736.20	1/4	4,418.76	1/4	4,107.31	1/4	3,775.99	1/4	3,424.40	1/4	3,064.88	1/4	2,705.36	1/4	2,345.84
1/2		1/2		1/2	4,729.57	1/2	4,412.47	1/2	4,100.61	1/2	3,768.85	1/2	3,416.91	1/2	3,057.39	1/2	2,697.87	1/2	2,338.35
3/4		3/4		3/4	4,722.94	3/4	4,406.18	3/4	4,093.90	3/4	3,761.72	3/4	3,409.42	3/4	3,049.90	3/4	2,690.38	3/4	2,330.86
9		9		9	4,716.30	9	4,399.88	9	4,087.20	9	3,754.59	9	3,401.93	9	3,042.41	9	2,682.89	9	2,323.37
1/4		1/4		1/4	4,708.99	1/4	4,393.56	1/4	4,080.46	1/4	3,747.43	1/4	3,394.44	1/4	3,034.92	1/4	2,675.40	1/4	2,315.88
1/2		1/2		1/2	4,701.68	1/2	4,387.23	1/2	4,073.73	1/2	3,740.26	1/2	3,386.95	1/2	3,027.43	1/2	2,667.91	1/2	2,308.39
3/4		3/4		3/4	4,694.37	3/4	4,380.91	3/4	4,066.99	3/4	3,733.10	3/4	3,379.46	3/4	3,019.94	3/4	2,660.42	3/4	2,300.90
10		10		10	4,687.06	10	4,374.58	10	4,060.25	10	3,725.93	10	3,371.97	10	3,012.45	10	2,652.93	10	2,293.41
1/4		1/4		1/4	4,679.59	1/4	4,368.22	1/4	4,053.48	1/4	3,718.74	1/4	3,364.48	1/4	3,004.96	1/4	2,645.44	1/4	2,285.92
1/2		1/2		1/2	4,672.11	1/2	4,361.86	1/2	4,046.71	1/2	3,711.54	1/2	3,356.99	1/2	2,997.47	1/2	2,637.95	1/2	2,278.43
3/4		3/4		3/4	4,664.64	3/4	4,355.50	3/4	4,039.94	3/4	3,704.34	3/4	3,349.50	3/4	2,989.98	3/4	2,630.46	3/4	2,270.94
11		11		11	4,657.17	11	4,349.14	11	4,033.17	11	3,697.14	11	3,342.01	11	2,982.49	11	2,622.97	11	2,263.45
1/4		1/4		1/4	4,649.69	1/4	4,342.75	1/4	4,026.37	1/4	3,689.91	1/4	3,334.52	1/4	2,975.00	1/4	2,615.48	1/4	2,255.96
1/2		1/2		1/2	4,642.22	1/2	4,336.35	1/2	4,019.56	1/2	3,682.67	1/2	3,327.03	1/2	2,967.51	1/2	2,607.99	1/2	2,248.47
3/4		3/4		3/4	4,634.75	3/4	4,329.96	3/4	4,012.75	3/4	3,675.44	3/4	3,319.54	3/4	2,960.02	3/4	2,600.50	3/4	2,240.98

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 501"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,233.49	0	1,873.97	0	1,514.45	0	1,155.02	0	796.52	0	440.01	0	116.58	0		0		0	
1/4	2,226.00	1/4	1,866.48	1/4	1,506.96	1/4	1,147.55	1/4	789.04	1/4	432.86	1/4	110.34	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,218.51	1/2	1,858.99	1/2	1,499.47	1/2	1,140.09	1/2	781.57	1/2	425.70	1/2	104.09	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,211.02	3/4	1,851.50	3/4	1,491.98	3/4	1,132.62	3/4	774.09	3/4	418.55	3/4	97.84	3/4	3/4	3/4	3/4	3/4	3/4
1	2,203.53	1	1,844.01	1	1,484.49	1	1,125.15	1	766.62	1	411.40	1	91.59	1	1	1	1	1	1
1/4	2,196.04	1/4	1,836.52	1/4	1,477.00	1/4	1,117.68	1/4	759.14	1/4	404.33	1/4	85.41	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,188.55	1/2	1,829.03	1/2	1,469.51	1/2	1,110.22	1/2	751.67	1/2	397.25	1/2	79.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,181.06	3/4	1,821.54	3/4	1,462.02	3/4	1,102.75	3/4	744.19	3/4	390.17	3/4	73.06	3/4	3/4	3/4	3/4	3/4	3/4
2	2,173.57	2	1,814.05	2	1,454.53	2	1,095.28	2	736.72	2	383.10	2	66.89	2	2	2	2	2	2
1/4	2,166.08	1/4	1,806.56	1/4	1,447.04	1/4	1,087.82	1/4	729.24	1/4	376.10	1/4	60.79	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,158.59	1/2	1,799.07	1/2	1,439.55	1/2	1,080.35	1/2	721.77	1/2	369.10	1/2	54.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,151.10	3/4	1,791.58	3/4	1,432.06	3/4	1,072.88	3/4	714.29	3/4	362.09	3/4	48.59	3/4	3/4	3/4	3/4	3/4	3/4
3	2,143.61	3	1,784.09	3	1,424.57	3	1,065.42	3	706.82	3	355.09	3	42.49	3	3	3	3	3	3
1/4	2,136.12	1/4	1,776.60	1/4	1,417.08	1/4	1,057.95	1/4	699.34	1/4	348.17	1/4	36.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,128.63	1/2	1,769.11	1/2	1,409.59	1/2	1,050.48	1/2	691.87	1/2	341.24	1/2	30.98	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,121.14	3/4	1,761.62	3/4	1,402.10	3/4	1,043.02	3/4	684.39	3/4	334.32	3/4	25.22	3/4	3/4	3/4	3/4	3/4	3/4
4	2,113.65	4	1,754.13	4	1,394.61	4	1,035.55	4	676.92	4	327.39	4	19.47	4	4	4	4	4	4
1/4	2,106.16	1/4	1,746.64	1/4	1,387.12	1/4	1,028.08	1/4	669.44	1/4	320.54	1/4	15.66	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,098.67	1/2	1,739.15	1/2	1,379.63	1/2	1,020.62	1/2	661.97	1/2	313.69	1/2	11.85	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,091.18	3/4	1,731.66	3/4	1,372.14	3/4	1,013.15	3/4	654.49	3/4	306.84	3/4	8.04	3/4	3/4	3/4	3/4	3/4	3/4
5	2,083.69	5	1,724.17	5	1,364.65	5	1,005.68	5	647.02	5	299.99	5	4.23	5	5	5	5	5	5
1/4	2,076.20	1/4	1,716.68	1/4	1,357.16	1/4	998.21	1/4	639.54	1/4	293.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,068.71	1/2	1,709.19	1/2	1,349.67	1/2	990.75	1/2	632.07	1/2	286.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,061.22	3/4	1,701.70	3/4	1,342.18	3/4	983.28	3/4	624.59	3/4	279.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,053.73	6	1,694.21	6	1,334.69	6	975.81	6	617.12	6	272.88	6		6	6	6	6	6	6
1/4	2,046.24	1/4	1,686.72	1/4	1,327.20	1/4	968.35	1/4	609.64	1/4	266.18	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,038.75	1/2	1,679.23	1/2	1,319.71	1/2	960.88	1/2	602.17	1/2	259.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,031.26	3/4	1,671.74	3/4	1,312.22	3/4	953.41	3/4	594.69	3/4	252.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,023.77	7	1,664.25	7	1,304.73	7	945.95	7	587.22	7	246.08	7		7	7	7	7	7	7
1/4	2,016.28	1/4	1,656.76	1/4	1,297.24	1/4	938.48	1/4	579.74	1/4	239.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,008.79	1/2	1,649.27	1/2	1,289.75	1/2	931.01	1/2	572.27	1/2	232.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.30	3/4	1,641.78	3/4	1,282.26	3/4	923.55	3/4	564.79	3/4	226.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,993.81	8	1,634.29	8	1,274.77	8	916.08	8	557.32	8	219.58	8		8	8	8	8	8	8
1/4	1,986.32	1/4	1,626.80	1/4	1,267.28	1/4	908.61	1/4	549.88	1/4	213.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,978.83	1/2	1,619.31	1/2	1,259.79	1/2	901.14	1/2	542.44	1/2	206.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,971.34	3/4	1,611.82	3/4	1,252.30	3/4	893.68	3/4	535.01	3/4	199.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,963.85	9	1,604.33	9	1,244.81	9	886.21	9	527.57	9	193.38	9		9	9	9	9	9	9
1/4	1,956.36	1/4	1,596.84	1/4	1,237.32	1/4	878.74	1/4	520.21	1/4	186.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,948.87	1/2	1,589.35	1/2	1,229.83	1/2	871.28	1/2	512.85	1/2	180.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,941.38	3/4	1,581.86	3/4	1,222.34	3/4	863.81	3/4	505.48	3/4	173.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,933.89	10	1,574.37	10	1,214.85	10	856.34	10	498.12	10	167.48	10		10	10	10	10	10	10
1/4	1,926.40	1/4	1,566.88	1/4	1,207.36	1/4	848.88	1/4	490.82	1/4	161.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,918.91	1/2	1,559.39	1/2	1,199.87	1/2	841.41	1/2	483.52	1/2	154.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,911.42	3/4	1,551.90	3/4	1,192.38	3/4	833.94	3/4	476.22	3/4	148.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,903.93	11	1,544.41	11	1,184.89	11	826.48	11	468.91	11	141.88	11		11	11	11	11	11	11
1/4	1,896.44	1/4	1,536.92	1/4	1,177.42	1/4	818.99	1/4	461.69	1/4	135.56	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,888.95	1/2	1,529.43	1/2	1,169.95	1/2	811.50	1/2	454.46	1/2	129.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,881.46	3/4	1,521.94	3/4	1,162.49	3/4	804.01	3/4	447.23	3/4	122.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "EMS 501"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,716.81	0	4,412.91	0	4,093.66	0	3,754.26	0	3,396.64	0	3,035.91	0	2,675.17
1/4		1/4		1/4		1/4	4,709.31	1/4	4,406.46	1/4	4,086.79	1/4	3,746.97	1/4	3,389.13	1/4	3,028.39	1/4	2,667.66
1/2		1/2		1/2		1/2	4,701.82	1/2	4,400.00	1/2	4,079.93	1/2	3,739.68	1/2	3,381.61	1/2	3,020.88	1/2	2,660.14
3/4		3/4		3/4		3/4	4,694.32	3/4	4,393.55	3/4	4,073.06	3/4	3,732.38	3/4	3,374.10	3/4	3,013.36	3/4	2,652.63
1		1		1		1	4,688.24	1	4,387.06	1	4,066.16	1	3,725.06	1	3,366.58	1	3,005.85	1	2,645.11
1/4		1/4		1/4		1/4	4,682.16	1/4	4,380.57	1/4	4,059.27	1/4	3,717.73	1/4	3,359.07	1/4	2,998.33	1/4	2,637.60
1/2		1/2		1/2		1/2	4,676.08	1/2	4,374.08	1/2	4,052.37	1/2	3,710.40	1/2	3,351.55	1/2	2,990.82	1/2	2,630.08
3/4		3/4		3/4		3/4	4,670.01	3/4	4,367.59	3/4	4,045.47	3/4	3,703.08	3/4	3,344.03	3/4	2,983.30	3/4	2,622.57
2		2		2		2	4,663.89	2	4,361.07	2	4,038.53	2	3,695.71	2	3,336.52	2	2,975.78	2	2,615.05
1/4		1/4		1/4		1/4	4,657.78	1/4	4,354.55	1/4	4,031.60	1/4	3,688.35	1/4	3,329.00	1/4	2,968.27	1/4	2,607.53
1/2		1/2		1/2		1/2	4,651.67	1/2	4,348.03	1/2	4,024.67	1/2	3,680.99	1/2	3,321.49	1/2	2,960.75	1/2	2,600.02
3/4		3/4		3/4		3/4	4,645.56	3/4	4,341.50	3/4	4,017.73	3/4	3,673.63	3/4	3,313.97	3/4	2,953.24	3/4	2,592.50
3		3		3		3	4,639.41	3	4,334.95	3	4,010.77	3	3,666.24	3	3,306.46	3	2,945.72	3	2,584.99
1/4		1/4		1/4		1/4	4,633.27	1/4	4,328.39	1/4	4,003.80	1/4	3,658.84	1/4	3,298.94	1/4	2,938.21	1/4	2,577.47
1/2		1/2		1/2		1/2	4,627.12	1/2	4,321.83	1/2	3,996.83	1/2	3,651.44	1/2	3,291.43	1/2	2,930.69	1/2	2,569.96
3/4		3/4		3/4		3/4	4,620.97	3/4	4,315.27	3/4	3,989.86	3/4	3,644.05	3/4	3,283.91	3/4	2,923.18	3/4	2,562.44
4		4		4		4	4,614.79	4	4,308.68	4	3,982.86	4	3,636.62	4	3,276.40	4	2,915.66	4	2,554.93
1/4		1/4		1/4		1/4	4,608.61	1/4	4,302.09	1/4	3,975.86	1/4	3,629.19	1/4	3,268.88	1/4	2,908.15	1/4	2,547.41
1/2		1/2		1/2		1/2	4,602.43	1/2	4,295.50	1/2	3,968.86	1/2	3,621.76	1/2	3,261.37	1/2	2,900.63	1/2	2,539.90
3/4		3/4		3/4		3/4	4,596.25	3/4	4,288.91	3/4	3,961.86	3/4	3,614.33	3/4	3,253.85	3/4	2,893.12	3/4	2,532.38
5		5		5		5	4,590.04	5	4,282.28	5	3,954.82	5	3,606.87	5	3,246.34	5	2,885.60	5	2,524.87
1/4		1/4		1/4		1/4	4,583.82	1/4	4,275.66	1/4	3,947.78	1/4	3,599.40	1/4	3,238.82	1/4	2,878.09	1/4	2,517.35
1/2		1/2		1/2		1/2	4,577.61	1/2	4,269.03	1/2	3,940.75	1/2	3,591.94	1/2	3,231.30	1/2	2,870.57	1/2	2,509.84
3/4		3/4		3/4		3/4	4,571.39	3/4	4,262.41	3/4	3,933.71	3/4	3,584.47	3/4	3,223.79	3/4	2,863.06	3/4	2,502.32
6		6		6		6	4,565.14	6	4,255.75	6	3,926.62	6	3,576.97	6	3,216.27	6	2,855.54	6	2,494.81
1/4		1/4		1/4		1/4	4,558.89	1/4	4,249.09	1/4	3,919.54	1/4	3,569.47	1/4	3,208.76	1/4	2,848.02	1/4	2,487.29
1/2		1/2		1/2		1/2	4,552.65	1/2	4,242.43	1/2	3,912.45	1/2	3,561.97	1/2	3,201.24	1/2	2,840.51	1/2	2,479.77
3/4		3/4		3/4		3/4	4,546.40	3/4	4,235.77	3/4	3,905.36	3/4	3,554.46	3/4	3,193.73	3/4	2,832.99	3/4	2,472.26
7		7		7		7	4,556.11	7	4,540.11	7	4,229.08	7	3,898.24	7	3,546.95	7	3,186.21	7	2,825.48
1/4		1/4		1/4		1/4	4,850.83	1/4	4,533.83	1/4	4,222.38	1/4	3,891.12	1/4	3,539.43	1/4	3,178.70	1/4	2,817.96
1/2		1/2		1/2		1/2	4,845.54	1/2	4,527.55	1/2	4,215.69	1/2	3,884.00	1/2	3,531.92	1/2	3,171.18	1/2	2,810.45
3/4		3/4		3/4		3/4	4,840.25	3/4	4,521.26	3/4	4,208.99	3/4	3,876.87	3/4	3,524.40	3/4	3,163.67	3/4	2,802.93
8		8		8		8	4,833.60	8	4,514.95	8	4,202.27	8	3,869.72	8	3,516.89	8	3,156.15	8	2,795.42
1/4		1/4		1/4		1/4	4,826.95	1/4	4,508.63	1/4	4,195.54	1/4	3,862.56	1/4	3,509.37	1/4	3,148.64	1/4	2,787.90
1/2		1/2		1/2		1/2	4,820.29	1/2	4,502.31	1/2	4,188.81	1/2	3,855.41	1/2	3,501.86	1/2	3,141.12	1/2	2,780.39
3/4		3/4		3/4		3/4	4,813.64	3/4	4,495.99	3/4	4,182.08	3/4	3,848.25	3/4	3,494.34	3/4	3,133.61	3/4	2,772.87
9		9		9		9	4,806.31	9	4,489.64	9	4,175.32	9	3,841.06	9	3,486.83	9	3,126.09	9	2,765.36
1/4		1/4		1/4		1/4	4,798.97	1/4	4,483.29	1/4	4,168.56	1/4	3,833.87	1/4	3,479.31	1/4	3,118.58	1/4	2,757.84
1/2		1/2		1/2		1/2	4,791.63	1/2	4,476.94	1/2	4,161.80	1/2	3,826.68	1/2	3,471.79	1/2	3,111.06	1/2	2,750.33
3/4		3/4		3/4		3/4	4,784.30	3/4	4,470.59	3/4	4,155.03	3/4	3,819.49	3/4	3,464.28	3/4	3,103.54	3/4	2,742.81
10		10		10		10	4,776.80	10	4,464.20	10	4,148.24	10	3,812.26	10	3,456.76	10	3,096.03	10	2,735.30
1/4		1/4		1/4		1/4	4,769.30	1/4	4,457.82	1/4	4,141.44	1/4	3,805.04	1/4	3,449.25	1/4	3,088.51	1/4	2,727.78
1/2		1/2		1/2		1/2	4,761.80	1/2	4,451.43	1/2	4,134.64	1/2	3,797.82	1/2	3,441.73	1/2	3,081.00	1/2	2,720.26
3/4		3/4		3/4		3/4	4,754.30	3/4	4,445.04	3/4	4,127.85	3/4	3,790.59	3/4	3,434.22	3/4	3,073.48	3/4	2,712.75
11		11		11		11	4,746.80	11	4,438.62	11	4,121.02	11	3,783.33	11	3,426.70	11	3,065.97	11	2,705.23
1/4		1/4		1/4		1/4	4,739.31	1/4	4,432.20	1/4	4,114.19	1/4	3,776.07	1/4	3,419.19	1/4	3,058.45	1/4	2,697.72
1/2		1/2		1/2		1/2	4,731.81	1/2	4,425.78	1/2	4,107.35	1/2	3,768.81	1/2	3,411.67	1/2	3,050.94	1/2	2,690.20
3/4		3/4		3/4		3/4	4,724.31	3/4	4,419.36	3/4	4,100.52	3/4	3,761.56	3/4	3,404.16	3/4	3,043.42	3/4	2,682.69

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 501"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,314.44	0	1,953.70	0	1,592.97	0	1,232.24	0	871.52	0	511.37	0	150.65	0		0		0	
1/4	2,306.92	1/4	1,946.19	1/4	1,585.45	1/4	1,224.72	1/4	864.02	1/4	503.86	1/4	143.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,299.41	1/2	1,938.67	1/2	1,577.94	1/2	1,217.20	1/2	856.52	1/2	496.34	1/2	135.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,291.89	3/4	1,931.16	3/4	1,570.42	3/4	1,209.69	3/4	849.02	3/4	488.83	3/4	128.10	3/4	3/4	3/4	3/4	3/4	3/4
1	2,284.38	1	1,923.64	1	1,562.91	1	1,202.17	1	841.51	1	481.31	1	120.59	1	1	1	1	1	1
1/4	2,276.86	1/4	1,916.13	1/4	1,555.39	1/4	1,194.66	1/4	834.01	1/4	473.80	1/4	113.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,269.35	1/2	1,908.61	1/2	1,547.88	1/2	1,187.14	1/2	826.51	1/2	466.28	1/2	105.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,261.83	3/4	1,901.10	3/4	1,540.36	3/4	1,179.63	3/4	819.01	3/4	458.77	3/4	98.04	3/4	3/4	3/4	3/4	3/4	3/4
2	2,254.32	2	1,893.58	2	1,532.85	2	1,172.11	2	811.51	2	451.25	2	90.53	2	2	2	2	2	2
1/4	2,246.80	1/4	1,886.07	1/4	1,525.33	1/4	1,164.60	1/4	804.01	1/4	443.74	1/4	83.01	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,239.29	1/2	1,878.55	1/2	1,517.82	1/2	1,157.08	1/2	796.51	1/2	436.22	1/2	75.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,231.77	3/4	1,871.04	3/4	1,510.30	3/4	1,149.57	3/4	789.01	3/4	428.71	3/4	67.98	3/4	3/4	3/4	3/4	3/4	3/4
3	2,224.25	3	1,863.52	3	1,502.79	3	1,142.05	3	781.51	3	421.19	3	60.73	3	3	3	3	3	3
1/4	2,216.74	1/4	1,856.00	1/4	1,495.27	1/4	1,134.54	1/4	774.01	1/4	413.68	1/4	53.49	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,209.22	1/2	1,848.49	1/2	1,487.76	1/2	1,127.02	1/2	766.51	1/2	406.16	1/2	46.24	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,201.71	3/4	1,840.97	3/4	1,480.24	3/4	1,119.51	3/4	759.01	3/4	398.65	3/4	38.99	3/4	3/4	3/4	3/4	3/4	3/4
4	2,194.19	4	1,833.46	4	1,472.72	4	1,111.99	4	751.51	4	391.13	4	33.63	4	4	4	4	4	4
1/4	2,186.68	1/4	1,825.94	1/4	1,465.21	1/4	1,104.47	1/4	744.01	1/4	383.62	1/4	28.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,179.16	1/2	1,818.43	1/2	1,457.69	1/2	1,096.96	1/2	736.51	1/2	376.10	1/2	22.89	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,171.65	3/4	1,810.91	3/4	1,450.18	3/4	1,089.44	3/4	729.01	3/4	368.59	3/4	17.52	3/4	3/4	3/4	3/4	3/4	3/4
5	2,164.13	5	1,803.40	5	1,442.66	5	1,081.93	5	721.51	5	361.07	5		5	5	5	5	5	5
1/4	2,156.62	1/4	1,795.88	1/4	1,435.15	1/4	1,074.41	1/4	714.01	1/4	353.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,149.10	1/2	1,788.37	1/2	1,427.63	1/2	1,066.90	1/2	706.51	1/2	346.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,141.59	3/4	1,780.85	3/4	1,420.12	3/4	1,059.38	3/4	699.01	3/4	338.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,134.07	6	1,773.34	6	1,412.60	6	1,051.87	6	691.51	6	331.01	6		6	6	6	6	6	6
1/4	2,126.56	1/4	1,765.82	1/4	1,405.09	1/4	1,044.35	1/4	684.01	1/4	323.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,119.04	1/2	1,758.31	1/2	1,397.57	1/2	1,036.84	1/2	676.51	1/2	315.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,111.53	3/4	1,750.79	3/4	1,390.06	3/4	1,029.32	3/4	669.01	3/4	308.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,104.01	7	1,743.28	7	1,382.54	7	1,021.81	7	661.51	7	300.95	7		7	7	7	7	7	7
1/4	2,096.49	1/4	1,735.76	1/4	1,375.03	1/4	1,014.29	1/4	654.01	1/4	293.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,088.98	1/2	1,728.24	1/2	1,367.51	1/2	1,006.78	1/2	646.51	1/2	285.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,081.46	3/4	1,720.73	3/4	1,360.00	3/4	999.26	3/4	639.01	3/4	278.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,073.95	8	1,713.21	8	1,352.48	8	991.75	8	631.51	8	270.89	8		8	8	8	8	8	8
1/4	2,066.43	1/4	1,705.70	1/4	1,344.96	1/4	984.23	1/4	624.01	1/4	263.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,058.92	1/2	1,698.18	1/2	1,337.45	1/2	976.71	1/2	616.51	1/2	255.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,051.40	3/4	1,690.67	3/4	1,329.93	3/4	969.20	3/4	609.01	3/4	248.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,043.89	9	1,683.15	9	1,322.42	9	961.68	9	601.51	9	240.83	9		9	9	9	9	9	9
1/4	2,036.37	1/4	1,675.64	1/4	1,314.90	1/4	954.17	1/4	594.01	1/4	233.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,028.86	1/2	1,668.12	1/2	1,307.39	1/2	946.65	1/2	586.51	1/2	225.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,021.34	3/4	1,660.61	3/4	1,299.87	3/4	939.14	3/4	579.01	3/4	218.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,013.83	10	1,653.09	10	1,292.36	10	931.62	10	571.49	10	210.77	10		10	10	10	10	10	10
1/4	2,006.31	1/4	1,645.58	1/4	1,284.84	1/4	924.11	1/4	563.98	1/4	203.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,998.80	1/2	1,638.06	1/2	1,277.33	1/2	916.59	1/2	556.46	1/2	195.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,991.28	3/4	1,630.55	3/4	1,269.81	3/4	909.08	3/4	548.95	3/4	188.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,983.77	11	1,623.03	11	1,262.30	11	901.56	11	541.43	11	180.71	11		11	11	11	11	11	11
1/4	1,976.25	1/4	1,615.52	1/4	1,254.78	1/4	894.05	1/4	533.92	1/4	173.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.73	1/2	1,608.00	1/2	1,247.27	1/2	886.53	1/2	526.40	1/2	165.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.22	3/4	1,600.48	3/4	1,239.75	3/4	879.02	3/4	518.89	3/4	158.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "EMS 501"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,598.65	0	4,332.45	0	4,050.13	0	3,711.73	0	3,355.12	0	2,995.38	0	2,635.65
1/4		1/4		1/4		1/4	4,591.94	1/4	4,326.78	1/4	4,043.29	1/4	3,704.46	1/4	3,347.62	1/4	2,987.89	1/4	2,628.16
1/2		1/2		1/2		1/2	4,585.23	1/2	4,321.11	1/2	4,036.44	1/2	3,697.19	1/2	3,340.13	1/2	2,980.40	1/2	2,620.66
3/4		3/4		3/4		3/4	4,578.51	3/4	4,315.44	3/4	4,029.60	3/4	3,689.92	3/4	3,332.63	3/4	2,972.90	3/4	2,613.17
1		1		1		1	4,573.22	1	4,309.74	1	4,022.72	1	3,682.61	1	3,325.14	1	2,965.41	1	2,605.68
1/4		1/4		1/4		1/4	4,567.93	1/4	4,304.03	1/4	4,015.84	1/4	3,675.30	1/4	3,317.64	1/4	2,957.91	1/4	2,598.18
1/2		1/2		1/2		1/2	4,562.64	1/2	4,298.33	1/2	4,008.96	1/2	3,668.00	1/2	3,310.15	1/2	2,950.42	1/2	2,590.69
3/4		3/4		3/4		3/4	4,557.34	3/4	4,292.63	3/4	4,002.09	3/4	3,660.69	3/4	3,302.66	3/4	2,942.92	3/4	2,583.19
2		2		2		2	4,552.02	2	4,286.89	2	3,995.17	2	3,653.35	2	3,295.16	2	2,935.43	2	2,575.70
1/4		1/4		1/4		1/4	4,546.69	1/4	4,281.15	1/4	3,988.26	1/4	3,646.01	1/4	3,287.67	1/4	2,927.94	1/4	2,568.20
1/2		1/2		1/2		1/2	4,541.36	1/2	4,275.41	1/2	3,981.35	1/2	3,638.67	1/2	3,280.17	1/2	2,920.44	1/2	2,560.71
3/4		3/4		3/4		3/4	4,536.04	3/4	4,269.68	3/4	3,974.43	3/4	3,631.33	3/4	3,272.68	3/4	2,912.95	3/4	2,553.22
3		3		3		3	4,530.68	3	4,263.91	3	3,967.49	3	3,623.95	3	3,265.18	3	2,905.45	3	2,545.72
1/4		1/4		1/4		1/4	4,525.31	1/4	4,258.13	1/4	3,960.54	1/4	3,616.58	1/4	3,257.69	1/4	2,897.96	1/4	2,538.23
1/2		1/2		1/2		1/2	4,519.95	1/2	4,252.36	1/2	3,953.59	1/2	3,609.20	1/2	3,250.19	1/2	2,890.46	1/2	2,530.74
3/4		3/4		3/4		3/4	4,514.59	3/4	4,246.59	3/4	3,946.65	3/4	3,601.83	3/4	3,242.70	3/4	2,882.97	3/4	2,523.25
4		4		4		4	4,509.20	4	4,240.79	4	3,939.67	4	3,594.42	4	3,235.21	4	2,875.47	4	2,515.76
1/4		1/4		1/4		1/4	4,503.80	1/4	4,234.98	1/4	3,932.68	1/4	3,587.01	1/4	3,227.71	1/4	2,867.98	1/4	2,508.27
1/2		1/2		1/2		1/2	4,498.41	1/2	4,229.17	1/2	3,925.70	1/2	3,579.60	1/2	3,220.22	1/2	2,860.49	1/2	2,500.78
3/4		3/4		3/4		3/4	4,493.01	3/4	4,223.37	3/4	3,918.72	3/4	3,572.19	3/4	3,212.72	3/4	2,852.99	3/4	2,493.29
5		5		5		5	4,487.58	5	4,217.53	5	3,911.71	5	3,564.75	5	3,205.23	5	2,845.50	5	2,485.79
1/4		1/4		1/4		1/4	4,482.15	1/4	4,211.69	1/4	3,904.69	1/4	3,557.31	1/4	3,197.73	1/4	2,838.00	1/4	2,478.30
1/2		1/2		1/2		1/2	4,476.72	1/2	4,205.85	1/2	3,897.68	1/2	3,549.86	1/2	3,190.24	1/2	2,830.51	1/2	2,470.81
3/4		3/4		3/4		3/4	4,471.29	3/4	4,200.01	3/4	3,890.66	3/4	3,542.42	3/4	3,182.74	3/4	2,823.01	3/4	2,463.32
6		6		6		6	4,465.83	6	4,194.13	6	3,883.59	6	3,534.94	6	3,175.25	6	2,815.52	6	2,455.83
1/4		1/4		1/4		1/4	4,460.37	1/4	4,188.26	1/4	3,876.53	1/4	3,527.46	1/4	3,167.76	1/4	2,808.02	1/4	2,448.34
1/2		1/2		1/2		1/2	4,454.90	1/2	4,182.39	1/2	3,869.46	1/2	3,519.98	1/2	3,160.26	1/2	2,800.53	1/2	2,440.85
3/4		3/4		3/4		3/4	4,449.44	3/4	4,176.51	3/4	3,862.39	3/4	3,512.50	3/4	3,152.77	3/4	2,793.04	3/4	2,433.36
7		7		7		7	4,443.94	7	4,170.60	7	3,855.29	7	3,505.00	7	3,145.27	7	2,785.54	7	2,425.86
1/4		1/4		1/4		1/4	4,438.44	1/4	4,164.70	1/4	3,848.19	1/4	3,497.51	1/4	3,137.78	1/4	2,778.05	1/4	2,418.37
1/2		1/2		1/2		1/2	4,432.95	1/2	4,158.79	1/2	3,841.09	1/2	3,490.02	1/2	3,130.28	1/2	2,770.55	1/2	2,410.88
3/4		3/4		3/4		3/4	4,427.45	3/4	4,152.88	3/4	3,833.99	3/4	3,482.52	3/4	3,122.79	3/4	2,763.06	3/4	2,403.39
8		8		8		8	4,421.92	8	4,146.94	8	3,826.85	8	3,475.03	8	3,115.30	8	2,755.56	8	2,395.90
1/4		1/4		1/4		1/4	4,416.38	1/4	4,140.99	1/4	3,819.72	1/4	3,467.53	1/4	3,107.80	1/4	2,748.07	1/4	2,388.41
1/2		1/2		1/2		1/2	4,410.85	1/2	4,135.05	1/2	3,812.58	1/2	3,460.04	1/2	3,100.31	1/2	2,740.58	1/2	2,380.92
3/4		3/4		3/4		3/4	4,405.32	3/4	4,129.11	3/4	3,805.45	3/4	3,452.54	3/4	3,092.81	3/4	2,733.08	3/4	2,373.43
9		9		9		9	4,400.00	9	4,123.13	9	3,798.28	9	3,445.05	9	3,085.32	9	2,725.59	9	2,365.94
1/4		1/4		1/4		1/4	4,394.19	1/4	4,117.16	1/4	3,791.11	1/4	3,437.55	1/4	3,077.82	1/4	2,718.09	1/4	2,358.44
1/2		1/2		1/2		1/2	4,388.62	1/2	4,111.18	1/2	3,783.94	1/2	3,430.06	1/2	3,070.33	1/2	2,710.60	1/2	2,350.95
3/4		3/4		3/4		3/4	4,383.05	3/4	4,105.20	3/4	3,776.77	3/4	3,422.57	3/4	3,062.83	3/4	2,703.10	3/4	2,343.46
10		10		10		10	4,377.45	10	4,099.19	10	3,769.57	10	3,415.07	10	3,055.34	10	2,695.61	10	2,335.97
1/4		1/4		1/4		1/4	4,371.85	1/4	4,093.18	1/4	3,762.36	1/4	3,407.58	1/4	3,047.85	1/4	2,688.11	1/4	2,328.48
1/2		1/2		1/2		1/2	4,366.25	1/2	4,087.17	1/2	3,755.16	1/2	3,400.08	1/2	3,040.35	1/2	2,680.62	1/2	2,320.99
3/4		3/4		3/4		3/4	4,360.65	3/4	4,081.16	3/4	3,747.96	3/4	3,392.59	3/4	3,032.86	3/4	2,673.13	3/4	2,313.50
11		11		11		11	4,355.02	11	4,075.11	11	3,740.72	11	3,385.09	11	3,025.36	11	2,665.63	11	2,306.00
1/4		1/4		1/4		1/4	4,349.38	1/4	4,069.07	1/4	3,733.48	1/4	3,377.60	1/4	3,017.87	1/4	2,658.14	1/4	2,298.50
1/2		1/2		1/2		1/2	4,343.75	1/2	4,063.02	1/2	3,726.24	1/2	3,370.10	1/2	3,010.37	1/2	2,650.64	1/2	2,291.00
3/4		3/4		3/4		3/4	4,338.11	3/4	4,056.98	3/4	3,719.00	3/4	3,362.61	3/4	3,002.88	3/4	2,643.15	3/4	2,283.51

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 501"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,276.01	0	1,916.40	0	1,557.26	0	1,197.85	0	856.79	0	511.08	0	150.57	0		0		0	
1/4	2,268.51	1/4	1,908.92	1/4	1,549.77	1/4	1,190.67	1/4	849.69	1/4	503.58	1/4	143.06	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,261.02	1/2	1,901.44	1/2	1,542.27	1/2	1,183.48	1/2	842.59	1/2	496.08	1/2	135.55	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,253.52	3/4	1,893.96	3/4	1,534.78	3/4	1,176.29	3/4	835.49	3/4	488.59	3/4	128.04	3/4	3/4	3/4	3/4	3/4	3/4
1	2,246.02	1	1,886.49	1	1,527.29	1	1,169.11	1	828.39	1	481.07	1	120.53	1	1	1	1	1	1
1/4	2,238.52	1/4	1,879.01	1/4	1,519.79	1/4	1,161.92	1/4	821.28	1/4	473.56	1/4	113.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,231.03	1/2	1,871.53	1/2	1,512.30	1/2	1,154.73	1/2	814.18	1/2	466.05	1/2	105.50	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,223.53	3/4	1,864.05	3/4	1,504.80	3/4	1,147.55	3/4	807.08	3/4	458.54	3/4	97.99	3/4	3/4	3/4	3/4	3/4	3/4
2	2,216.03	2	1,856.58	2	1,497.31	2	1,140.36	2	799.98	2	451.03	2	90.48	2	2	2	2	2	2
1/4	2,208.53	1/4	1,849.10	1/4	1,489.81	1/4	1,133.17	1/4	792.88	1/4	443.52	1/4	82.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,201.04	1/2	1,841.62	1/2	1,482.32	1/2	1,125.99	1/2	785.77	1/2	436.01	1/2	75.46	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,193.54	3/4	1,834.14	3/4	1,474.83	3/4	1,118.80	3/4	778.67	3/4	428.49	3/4	67.95	3/4	3/4	3/4	3/4	3/4	3/4
3	2,186.04	3	1,826.67	3	1,467.33	3	1,111.61	3	771.57	3	420.98	3	60.70	3	3	3	3	3	3
1/4	2,178.55	1/4	1,819.19	1/4	1,459.84	1/4	1,104.43	1/4	764.47	1/4	413.47	1/4	53.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,171.05	1/2	1,811.71	1/2	1,452.34	1/2	1,097.24	1/2	757.37	1/2	405.96	1/2	46.22	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,163.55	3/4	1,804.23	3/4	1,444.85	3/4	1,090.05	3/4	750.26	3/4	398.45	3/4	38.97	3/4	3/4	3/4	3/4	3/4	3/4
4	2,156.05	4	1,796.76	4	1,437.36	4	1,082.87	4	743.16	4	390.94	4	33.61	4	4	4	4	4	4
1/4	2,148.56	1/4	1,789.28	1/4	1,429.86	1/4	1,075.68	1/4	736.06	1/4	383.43	1/4	28.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,141.06	1/2	1,781.80	1/2	1,422.37	1/2	1,068.50	1/2	728.96	1/2	375.91	1/2	22.88	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,133.56	3/4	1,774.32	3/4	1,414.87	3/4	1,061.31	3/4	721.86	3/4	368.40	3/4	17.51	3/4	3/4	3/4	3/4	3/4	3/4
5	2,126.06	5	1,766.85	5	1,407.38	5	1,054.12	5	714.69	5	360.89	5		5	5	5	5	5	5
1/4	2,118.57	1/4	1,759.37	1/4	1,399.89	1/4	1,046.94	1/4	707.52	1/4	353.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,111.07	1/2	1,751.89	1/2	1,392.39	1/2	1,039.75	1/2	700.35	1/2	345.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,103.57	3/4	1,744.41	3/4	1,384.90	3/4	1,032.56	3/4	693.18	3/4	338.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,096.08	6	1,736.94	6	1,377.40	6	1,025.38	6	686.02	6	330.85	6		6	6	6	6	6	6
1/4	2,088.58	1/4	1,729.46	1/4	1,369.91	1/4	1,018.19	1/4	678.85	1/4	323.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,081.08	1/2	1,721.98	1/2	1,362.41	1/2	1,011.00	1/2	671.68	1/2	315.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,073.58	3/4	1,714.50	3/4	1,354.92	3/4	1,003.82	3/4	664.51	3/4	308.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,066.09	7	1,707.03	7	1,347.43	7	996.69	7	657.35	7	300.80	7		7	7	7	7	7	7
1/4	2,058.59	1/4	1,699.55	1/4	1,339.93	1/4	989.57	1/4	650.18	1/4	293.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,051.09	1/2	1,692.07	1/2	1,332.44	1/2	982.45	1/2	643.01	1/2	285.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,043.59	3/4	1,684.59	3/4	1,324.94	3/4	975.33	3/4	635.84	3/4	278.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,036.10	8	1,677.12	8	1,317.45	8	968.20	8	628.67	8	270.75	8		8	8	8	8	8	8
1/4	2,028.60	1/4	1,669.64	1/4	1,309.96	1/4	961.08	1/4	621.51	1/4	263.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,021.10	1/2	1,662.16	1/2	1,302.46	1/2	953.96	1/2	614.34	1/2	255.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,013.60	3/4	1,654.68	3/4	1,294.97	3/4	946.83	3/4	607.17	3/4	248.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,006.13	9	1,647.19	9	1,287.47	9	939.71	9	600.01	9	240.71	9		9	9	9	9	9	9
1/4	1,998.65	1/4	1,639.70	1/4	1,279.98	1/4	932.59	1/4	592.86	1/4	233.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,991.17	1/2	1,632.20	1/2	1,272.49	1/2	925.47	1/2	585.70	1/2	225.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,983.69	3/4	1,624.71	3/4	1,264.99	3/4	918.34	3/4	578.54	3/4	218.17	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,976.22	10	1,617.21	10	1,257.50	10	911.54	10	571.05	10	210.66	10		10	10	10	10	10	10
1/4	1,968.74	1/4	1,609.72	1/4	1,250.00	1/4	904.73	1/4	563.56	1/4	203.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,961.26	1/2	1,602.23	1/2	1,242.51	1/2	897.93	1/2	556.07	1/2	195.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,953.78	3/4	1,594.73	3/4	1,235.02	3/4	891.12	3/4	548.58	3/4	188.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,946.31	11	1,587.24	11	1,227.52	11	884.31	11	541.08	11	180.62	11		11	11	11	11	11	11
1/4	1,938.83	1/4	1,579.74	1/4	1,220.03	1/4	877.51	1/4	533.58	1/4	173.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,931.35	1/2	1,572.25	1/2	1,212.53	1/2	870.70	1/2	526.08	1/2	165.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,923.87	3/4	1,564.76	3/4	1,205.04	3/4	863.90	3/4	518.58	3/4	158.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
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BARGE "EMS 501"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,157.59	0	4,002.55	0	3,833.59	0	3,644.48	0	3,411.82	0	3,050.36	0	2,688.93
1/4		1/4		1/4		1/4	4,153.22	1/4	3,999.22	1/4	3,829.85	1/4	3,640.31	1/4	3,404.28	1/4	3,042.83	1/4	2,681.40
1/2		1/2		1/2		1/2	4,148.84	1/2	3,995.88	1/2	3,826.10	1/2	3,636.14	1/2	3,396.75	1/2	3,035.30	1/2	2,673.87
3/4		3/4		3/4		3/4	4,144.46	3/4	3,992.55	3/4	3,822.36	3/4	3,631.96	3/4	3,389.22	3/4	3,027.77	3/4	2,666.34
1		1		1		1	4,140.09	1	3,989.22	1	3,818.62	1	3,627.79	1	3,381.68	1	3,020.24	1	2,658.81
1/4		1/4		1/4		1/4	4,137.13	1/4	3,985.85	1/4	3,814.84	1/4	3,623.59	1/4	3,374.15	1/4	3,012.71	1/4	2,651.28
1/2		1/2		1/2		1/2	4,134.18	1/2	3,982.49	1/2	3,811.06	1/2	3,619.38	1/2	3,366.62	1/2	3,005.18	1/2	2,643.75
3/4		3/4		3/4		3/4	4,131.22	3/4	3,979.12	3/4	3,807.29	3/4	3,615.18	3/4	3,359.08	3/4	2,997.65	3/4	2,636.22
2		2		2		2	4,128.27	2	3,975.76	2	3,803.51	2	3,610.97	2	3,351.55	2	2,990.12	2	2,628.69
1/4		1/4		1/4		1/4	4,125.28	1/4	3,972.36	1/4	3,799.70	1/4	3,606.73	1/4	3,344.02	1/4	2,982.59	1/4	2,621.16
1/2		1/2		1/2		1/2	4,122.29	1/2	3,968.96	1/2	3,795.89	1/2	3,602.49	1/2	3,336.49	1/2	2,975.06	1/2	2,613.63
3/4		3/4		3/4		3/4	4,119.30	3/4	3,965.56	3/4	3,792.08	3/4	3,598.25	3/4	3,328.96	3/4	2,967.53	3/4	2,606.10
3		3		3		3	4,116.31	3	3,962.16	3	3,788.26	3	3,594.01	3	3,321.43	3	2,960.00	3	2,598.57
1/4		1/4		1/4		1/4	4,113.29	1/4	3,958.72	1/4	3,784.42	1/4	3,589.74	1/4	3,313.90	1/4	2,952.47	1/4	2,591.04
1/2		1/2		1/2		1/2	4,110.27	1/2	3,955.29	1/2	3,780.57	1/2	3,585.47	1/2	3,306.37	1/2	2,944.94	1/2	2,583.51
3/4		3/4		3/4		3/4	4,107.24	3/4	3,951.85	3/4	3,776.73	3/4	3,581.19	3/4	3,298.84	3/4	2,937.41	3/4	2,575.98
4		4		4		4	4,104.22	4	3,948.42	4	3,772.88	4	3,576.92	4	3,291.31	4	2,929.88	4	2,568.45
1/4		1/4		1/4		1/4	4,101.16	1/4	3,944.95	1/4	3,769.00	1/4	3,572.61	1/4	3,283.78	1/4	2,922.35	1/4	2,560.92
1/2		1/2		1/2		1/2	4,098.11	1/2	3,941.48	1/2	3,765.12	1/2	3,568.30	1/2	3,276.25	1/2	2,914.82	1/2	2,553.39
3/4		3/4		3/4		3/4	4,095.05	3/4	3,938.01	3/4	3,761.24	3/4	3,563.99	3/4	3,268.72	3/4	2,907.29	3/4	2,545.86
5		5		5		5	4,091.99	5	3,934.55	5	3,757.36	5	3,559.68	5	3,261.19	5	2,899.76	5	2,538.33
1/4		1/4		1/4		1/4	4,088.90	1/4	3,931.04	1/4	3,753.45	1/4	3,555.34	1/4	3,253.66	1/4	2,892.23	1/4	2,530.80
1/2		1/2		1/2		1/2	4,085.81	1/2	3,927.54	1/2	3,749.54	1/2	3,551.00	1/2	3,246.13	1/2	2,884.70	1/2	2,523.27
3/4		3/4		3/4		3/4	4,082.72	3/4	3,924.04	3/4	3,745.62	3/4	3,546.66	3/4	3,238.60	3/4	2,877.17	3/4	2,515.74
6		6		6		6	4,079.62	6	3,920.53	6	3,741.71	6	3,542.32	6	3,231.07	6	2,869.64	6	2,508.21
1/4		1/4		1/4		1/4	4,076.50	1/4	3,917.00	1/4	3,737.74	1/4	3,537.94	1/4	3,223.54	1/4	2,862.11	1/4	2,500.68
1/2		1/2		1/2		1/2	4,073.37	1/2	3,913.46	1/2	3,733.78	1/2	3,533.56	1/2	3,216.01	1/2	2,854.58	1/2	2,493.15
3/4		3/4		3/4		3/4	4,070.25	3/4	3,909.92	3/4	3,729.81	3/4	3,529.19	3/4	3,208.48	3/4	2,847.05	3/4	2,485.62
7		7		7	4,232.23	7	4,067.12	7	3,906.39	7	3,725.85	7	3,524.81	7	3,200.95	7	2,839.52	7	2,478.09
1/4		1/4		1/4	4,230.07	1/4	4,063.96	1/4	3,902.81	1/4	3,721.85	1/4	3,520.41	1/4	3,193.43	1/4	2,831.99	1/4	2,470.56
1/2		1/2		1/2	4,227.91	1/2	4,060.80	1/2	3,899.24	1/2	3,717.85	1/2	3,516.02	1/2	3,185.90	1/2	2,824.46	1/2	2,463.03
3/4		3/4		3/4	4,225.75	3/4	4,057.64	3/4	3,895.67	3/4	3,713.85	3/4	3,511.63	3/4	3,178.37	3/4	2,816.94	3/4	2,455.50
8		8		8	4,223.59	8	4,054.48	8	3,892.10	8	3,709.85	8	3,507.23	8	3,170.84	8	2,809.41	8	2,447.97
1/4		1/4		1/4	4,220.06	1/4	4,051.29	1/4	3,888.49	1/4	3,705.81	1/4	3,502.84	1/4	3,163.31	1/4	2,801.88	1/4	2,440.45
1/2		1/2		1/2	4,216.53	1/2	4,048.09	1/2	3,884.89	1/2	3,701.78	1/2	3,498.45	1/2	3,155.78	1/2	2,794.35	1/2	2,432.92
3/4		3/4		3/4	4,213.00	3/4	4,044.90	3/4	3,881.28	3/4	3,697.74	3/4	3,494.05	3/4	3,148.25	3/4	2,786.82	3/4	2,425.39
9		9		9	4,209.47	9	4,041.70	9	3,877.68	9	3,693.71	9	3,489.66	9	3,140.72	9	2,779.29	9	2,417.86
1/4		1/4		1/4	4,205.25	1/4	4,038.47	1/4	3,874.04	1/4	3,689.64	1/4	3,485.26	1/4	3,133.19	1/4	2,771.76	1/4	2,410.33
1/2		1/2		1/2	4,201.04	1/2	4,035.25	1/2	3,870.40	1/2	3,685.57	1/2	3,480.87	1/2	3,125.66	1/2	2,764.23	1/2	2,402.80
3/4		3/4		3/4	4,196.82	3/4	4,032.02	3/4	3,866.76	3/4	3,681.50	3/4	3,476.48	3/4	3,118.13	3/4	2,756.70	3/4	2,395.27
10		10		10	4,192.61	10	4,028.79	10	3,863.12	10	3,677.44	10	3,472.08	10	3,110.60	10	2,749.17	10	2,387.74
1/4		1/4		1/4	4,188.23	1/4	4,025.52	1/4	3,859.44	1/4	3,673.33	1/4	3,464.55	1/4	3,103.07	1/4	2,741.64	1/4	2,380.21
1/2		1/2		1/2	4,183.85	1/2	4,022.26	1/2	3,855.77	1/2	3,669.23	1/2	3,457.02	1/2	3,095.54	1/2	2,734.11	1/2	2,372.68
3/4		3/4		3/4	4,179.48	3/4	4,019.00	3/4	3,852.10	3/4	3,665.13	3/4	3,449.48	3/4	3,088.01	3/4	2,726.58	3/4	2,365.15
11		11		11	4,175.10	11	4,015.74	11	3,848.42	11	3,661.03	11	3,441.95	11	3,080.48	11	2,719.05	11	2,357.62
1/4		1/4		1/4	4,170.72	1/4	4,012.44	1/4	3,844.71	1/4	3,656.89	1/4	3,434.42	1/4	3,072.95	1/4	2,711.52	1/4	2,350.09
1/2		1/2		1/2	4,166.35	1/2	4,009.14	1/2	3,841.00	1/2	3,652.75	1/2	3,426.88	1/2	3,065.42	1/2	2,703.99	1/2	2,342.56
3/4		3/4		3/4	4,161.97	3/4	4,005.84	3/4	3,837.30	3/4	3,648.61	3/4	3,419.35	3/4	3,057.89	3/4	2,696.46	3/4	2,335.03

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 58'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 501"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,327.50	0	1,965.95	0	1,604.34	0	1,242.73	0	881.13	0	520.12	0	158.54	0		0		0	
1/4	2,319.97	1/4	1,958.42	1/4	1,596.81	1/4	1,235.20	1/4	873.61	1/4	512.59	1/4	151.00	1/4		1/4		1/4	
1/2	2,312.44	1/2	1,950.88	1/2	1,589.27	1/2	1,227.67	1/2	866.09	1/2	505.06	1/2	143.47	1/2		1/2		1/2	
3/4	2,304.91	3/4	1,943.35	3/4	1,581.74	3/4	1,220.13	3/4	858.57	3/4	497.53	3/4	135.94	3/4		3/4		3/4	
1	2,297.38	1	1,935.82	1	1,574.21	1	1,212.60	1	851.05	1	489.99	1	128.40	1		1		1	
1/4	2,289.85	1/4	1,928.28	1/4	1,566.67	1/4	1,205.07	1/4	843.53	1/4	482.46	1/4	120.87	1/4		1/4		1/4	
1/2	2,282.32	1/2	1,920.75	1/2	1,559.14	1/2	1,197.53	1/2	836.01	1/2	474.93	1/2	113.34	1/2		1/2		1/2	
3/4	2,274.79	3/4	1,913.21	3/4	1,551.61	3/4	1,190.00	3/4	828.50	3/4	467.39	3/4	105.80	3/4		3/4		3/4	
2	2,267.26	2	1,905.68	2	1,544.07	2	1,182.47	2	820.98	2	459.86	2	98.27	2		2		2	
1/4	2,259.73	1/4	1,898.15	1/4	1,536.54	1/4	1,174.93	1/4	813.46	1/4	452.33	1/4	90.74	1/4		1/4		1/4	
1/2	2,252.20	1/2	1,890.61	1/2	1,529.01	1/2	1,167.40	1/2	805.94	1/2	444.79	1/2	83.20	1/2		1/2		1/2	
3/4	2,244.67	3/4	1,883.08	3/4	1,521.47	3/4	1,159.86	3/4	798.42	3/4	437.26	3/4	75.67	3/4		3/4		3/4	
3	2,237.14	3	1,875.55	3	1,513.94	3	1,152.33	3	790.90	3	429.73	3	68.14	3		3		3	
1/4	2,229.61	1/4	1,868.01	1/4	1,506.41	1/4	1,144.80	1/4	783.39	1/4	422.19	1/4	60.87	1/4		1/4		1/4	
1/2	2,222.08	1/2	1,860.48	1/2	1,498.87	1/2	1,137.26	1/2	775.87	1/2	414.66	1/2	53.61	1/2		1/2		1/2	
3/4	2,214.55	3/4	1,852.95	3/4	1,491.34	3/4	1,129.73	3/4	768.35	3/4	407.13	3/4	46.35	3/4		3/4		3/4	
4	2,207.02	4	1,845.41	4	1,483.81	4	1,122.20	4	760.83	4	399.59	4	39.08	4		4		4	
1/4	2,199.49	1/4	1,837.88	1/4	1,476.27	1/4	1,114.66	1/4	753.31	1/4	392.06	1/4	33.70	1/4		1/4		1/4	
1/2	2,191.95	1/2	1,830.35	1/2	1,468.74	1/2	1,107.13	1/2	745.79	1/2	384.53	1/2	28.32	1/2		1/2		1/2	
3/4	2,184.42	3/4	1,822.81	3/4	1,461.20	3/4	1,099.60	3/4	738.28	3/4	377.00	3/4	22.94	3/4		3/4		3/4	
5	2,176.89	5	1,815.28	5	1,453.67	5	1,092.06	5	730.76	5	369.46	5	17.56	5		5		5	
1/4	2,169.35	1/4	1,807.75	1/4	1,446.14	1/4	1,084.53	1/4	723.24	1/4	361.93	1/4		1/4		1/4		1/4	
1/2	2,161.82	1/2	1,800.21	1/2	1,438.60	1/2	1,077.00	1/2	715.72	1/2	354.40	1/2		1/2		1/2		1/2	
3/4	2,154.29	3/4	1,792.68	3/4	1,431.07	3/4	1,069.46	3/4	708.20	3/4	346.86	3/4		3/4		3/4		3/4	
6	2,146.75	6	1,785.15	6	1,423.54	6	1,061.93	6	700.68	6	339.33	6		6		6		6	
1/4	2,139.22	1/4	1,777.61	1/4	1,416.00	1/4	1,054.40	1/4	693.17	1/4	331.80	1/4		1/4		1/4		1/4	
1/2	2,131.69	1/2	1,770.08	1/2	1,408.47	1/2	1,046.86	1/2	685.65	1/2	324.26	1/2		1/2		1/2		1/2	
3/4	2,124.15	3/4	1,762.54	3/4	1,400.94	3/4	1,039.33	3/4	678.13	3/4	316.73	3/4		3/4		3/4		3/4	
7	2,116.62	7	1,755.01	7	1,393.40	7	1,031.80	7	670.61	7	309.20	7		7		7		7	
1/4	2,109.09	1/4	1,747.48	1/4	1,385.87	1/4	1,024.26	1/4	663.09	1/4	301.66	1/4		1/4		1/4		1/4	
1/2	2,101.55	1/2	1,739.94	1/2	1,378.34	1/2	1,016.73	1/2	655.57	1/2	294.13	1/2		1/2		1/2		1/2	
3/4	2,094.02	3/4	1,732.41	3/4	1,370.80	3/4	1,009.19	3/4	648.05	3/4	286.60	3/4		3/4		3/4		3/4	
8	2,086.49	8	1,724.88	8	1,363.27	8	1,001.66	8	640.54	8	279.07	8		8		8		8	
1/4	2,078.95	1/4	1,717.34	1/4	1,355.74	1/4	994.13	1/4	633.02	1/4	271.53	1/4		1/4		1/4		1/4	
1/2	2,071.42	1/2	1,709.81	1/2	1,348.20	1/2	986.59	1/2	625.50	1/2	264.00	1/2		1/2		1/2		1/2	
3/4	2,063.88	3/4	1,702.28	3/4	1,340.67	3/4	979.06	3/4	617.98	3/4	256.47	3/4		3/4		3/4		3/4	
9	2,056.35	9	1,694.74	9	1,333.14	9	971.53	9	610.46	9	248.93	9		9		9		9	
1/4	2,048.82	1/4	1,687.21	1/4	1,325.60	1/4	963.99	1/4	602.94	1/4	241.40	1/4		1/4		1/4		1/4	
1/2	2,041.28	1/2	1,679.68	1/2	1,318.07	1/2	956.46	1/2	595.43	1/2	233.87	1/2		1/2		1/2		1/2	
3/4	2,033.75	3/4	1,672.14	3/4	1,310.53	3/4	948.93	3/4	587.91	3/4	226.33	3/4		3/4		3/4		3/4	
10	2,026.22	10	1,664.61	10	1,303.00	10	941.39	10	580.39	10	218.80	10		10		10		10	
1/4	2,018.68	1/4	1,657.08	1/4	1,295.47	1/4	933.86	1/4	572.86	1/4	211.27	1/4		1/4		1/4		1/4	
1/2	2,011.15	1/2	1,649.54	1/2	1,287.93	1/2	926.33	1/2	565.32	1/2	203.73	1/2		1/2		1/2		1/2	
3/4	2,003.62	3/4	1,642.01	3/4	1,280.40	3/4	918.79	3/4	557.79	3/4	196.20	3/4		3/4		3/4		3/4	
11	1,996.08	11	1,634.48	11	1,272.87	11	911.26	11	550.26	11	188.67	11		11		11		11	
1/4	1,988.55	1/4	1,626.94	1/4	1,265.33	1/4	903.73	1/4	542.72	1/4	181.13	1/4		1/4		1/4		1/4	
1/2	1,981.02	1/2	1,619.41	1/2	1,257.80	1/2	896.19	1/2	535.19	1/2	173.60	1/2		1/2		1/2		1/2	
3/4	1,973.48	3/4	1,611.87	3/4	1,250.27	3/4	888.66	3/4	527.66	3/4	166.07	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 501"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,469.26	0	4,226.21	0	3,967.79	0	3,689.20	0	3,380.82	0	3,019.83	0	2,658.94
1/4		1/4		1/4		1/4	4,463.03	1/4	4,221.02	1/4	3,962.19	1/4	3,683.18	1/4	3,373.29	1/4	3,012.31	1/4	2,651.42
1/2		1/2		1/2		1/2	4,456.79	1/2	4,215.83	1/2	3,956.59	1/2	3,677.15	1/2	3,365.76	1/2	3,004.79	1/2	2,643.91
3/4		3/4		3/4		3/4	4,450.56	3/4	4,210.65	3/4	3,951.00	3/4	3,671.12	3/4	3,358.22	3/4	2,997.28	3/4	2,636.39
1		1		1		1	4,445.75	1	4,205.43	1	3,945.36	1	3,665.06	1	3,350.69	1	2,989.76	1	2,628.87
1/4		1/4		1/4		1/4	4,440.94	1/4	4,200.21	1/4	3,939.73	1/4	3,659.00	1/4	3,343.16	1/4	2,982.24	1/4	2,621.35
1/2		1/2		1/2		1/2	4,436.13	1/2	4,194.98	1/2	3,934.10	1/2	3,652.94	1/2	3,335.62	1/2	2,974.72	1/2	2,613.83
3/4		3/4		3/4		3/4	4,431.32	3/4	4,189.76	3/4	3,928.47	3/4	3,646.88	3/4	3,328.09	3/4	2,967.20	3/4	2,606.31
2		2		2		2	4,426.48	2	4,184.51	2	3,922.80	2	3,640.79	2	3,320.57	2	2,959.68	2	2,598.79
1/4		1/4		1/4		1/4	4,421.64	1/4	4,179.25	1/4	3,917.13	1/4	3,634.69	1/4	3,313.05	1/4	2,952.16	1/4	2,591.28
1/2		1/2		1/2		1/2	4,416.79	1/2	4,174.00	1/2	3,911.47	1/2	3,628.60	1/2	3,305.53	1/2	2,944.65	1/2	2,583.76
3/4		3/4		3/4		3/4	4,411.95	3/4	4,168.74	3/4	3,905.80	3/4	3,622.50	3/4	3,298.02	3/4	2,937.13	3/4	2,576.24
3		3		3		3	4,407.07	3	4,163.45	3	3,900.10	3	3,616.37	3	3,290.50	3	2,929.61	3	2,568.72
1/4		1/4		1/4		1/4	4,402.19	1/4	4,158.16	1/4	3,894.40	1/4	3,610.24	1/4	3,282.98	1/4	2,922.09	1/4	2,561.20
1/2		1/2		1/2		1/2	4,397.31	1/2	4,152.87	1/2	3,888.70	1/2	3,604.12	1/2	3,275.46	1/2	2,914.57	1/2	2,553.68
3/4		3/4		3/4		3/4	4,392.43	3/4	4,147.59	3/4	3,883.00	3/4	3,597.99	3/4	3,267.94	3/4	2,907.05	3/4	2,546.17
4		4		4		4	4,387.52	4	4,142.26	4	3,877.26	4	3,591.82	4	3,260.42	4	2,899.53	4	2,538.65
1/4		1/4		1/4		1/4	4,382.61	1/4	4,136.94	1/4	3,871.53	1/4	3,585.66	1/4	3,252.90	1/4	2,892.02	1/4	2,531.14
1/2		1/2		1/2		1/2	4,377.70	1/2	4,131.61	1/2	3,865.79	1/2	3,579.50	1/2	3,245.39	1/2	2,884.50	1/2	2,523.63
3/4		3/4		3/4		3/4	4,372.78	3/4	4,126.29	3/4	3,860.06	3/4	3,573.33	3/4	3,237.87	3/4	2,876.98	3/4	2,516.12
5		5		5		5	4,367.84	5	4,120.93	5	3,854.29	5	3,567.14	5	3,230.35	5	2,869.46	5	2,508.60
1/4		1/4		1/4		1/4	4,362.89	1/4	4,115.57	1/4	3,848.52	1/4	3,560.94	1/4	3,222.83	1/4	2,861.94	1/4	2,501.09
1/2		1/2		1/2		1/2	4,357.94	1/2	4,110.22	1/2	3,842.75	1/2	3,554.74	1/2	3,215.31	1/2	2,854.42	1/2	2,493.58
3/4		3/4		3/4		3/4	4,353.00	3/4	4,104.86	3/4	3,836.98	3/4	3,548.54	3/4	3,207.79	3/4	2,846.91	3/4	2,486.07
6		6		6		6	4,348.02	6	4,099.47	6	3,831.16	6	3,542.31	6	3,200.27	6	2,839.39	6	2,478.55
1/4		1/4		1/4		1/4	4,343.03	1/4	4,094.07	1/4	3,825.34	1/4	3,536.08	1/4	3,192.76	1/4	2,831.87	1/4	2,471.04
1/2		1/2		1/2		1/2	4,338.05	1/2	4,088.68	1/2	3,819.52	1/2	3,529.85	1/2	3,185.24	1/2	2,824.35	1/2	2,463.53
3/4		3/4		3/4	4,587.23	3/4	4,333.07	3/4	4,083.29	3/4	3,813.70	3/4	3,523.62	3/4	3,177.72	3/4	2,816.83	3/4	2,456.02
7		7		7	4,583.21	7	4,328.06	7	4,077.86	7	3,807.84	7	3,517.37	7	3,170.20	7	2,809.31	7	2,448.50
1/4		1/4		1/4	4,579.20	1/4	4,323.04	1/4	4,072.44	1/4	3,801.99	1/4	3,511.12	1/4	3,162.68	1/4	2,801.79	1/4	2,440.99
1/2		1/2		1/2	4,575.18	1/2	4,318.03	1/2	4,067.01	1/2	3,796.13	1/2	3,504.87	1/2	3,155.16	1/2	2,794.28	1/2	2,433.48
3/4		3/4		3/4	4,571.17	3/4	4,313.01	3/4	4,061.58	3/4	3,790.28	3/4	3,498.62	3/4	3,147.65	3/4	2,786.76	3/4	2,425.97
8		8		8	4,565.78	8	4,307.96	8	4,056.12	8	3,784.39	8	3,492.37	8	3,140.13	8	2,779.24	8	2,418.45
1/4		1/4		1/4	4,560.40	1/4	4,302.91	1/4	4,050.66	1/4	3,778.50	1/4	3,486.12	1/4	3,132.61	1/4	2,771.72	1/4	2,410.94
1/2		1/2		1/2	4,555.01	1/2	4,297.86	1/2	4,045.20	1/2	3,772.61	1/2	3,479.87	1/2	3,125.09	1/2	2,764.20	1/2	2,403.43
3/4		3/4		3/4	4,549.63	3/4	4,292.81	3/4	4,039.74	3/4	3,766.72	3/4	3,473.62	3/4	3,117.57	3/4	2,756.68	3/4	2,395.92
9		9		9	4,543.56	9	4,287.73	9	4,034.24	9	3,760.80	9	3,467.37	9	3,110.05	9	2,749.16	9	2,388.40
1/4		1/4		1/4	4,537.49	1/4	4,282.64	1/4	4,028.75	1/4	3,754.88	1/4	3,461.12	1/4	3,102.53	1/4	2,741.65	1/4	2,380.89
1/2		1/2		1/2	4,531.41	1/2	4,277.56	1/2	4,023.25	1/2	3,748.95	1/2	3,454.87	1/2	3,095.02	1/2	2,734.13	1/2	2,373.38
3/4		3/4		3/4	4,525.34	3/4	4,272.48	3/4	4,017.76	3/4	3,743.03	3/4	3,448.63	3/4	3,087.50	3/4	2,726.61	3/4	2,365.87
10		10		10	4,519.11	10	4,267.36	10	4,012.23	10	3,737.07	10	3,441.09	10	3,079.98	10	2,719.09	10	2,358.35
1/4		1/4		1/4	4,512.88	1/4	4,262.24	1/4	4,006.70	1/4	3,731.11	1/4	3,433.56	1/4	3,072.46	1/4	2,711.57	1/4	2,350.84
1/2		1/2		1/2	4,506.65	1/2	4,257.12	1/2	4,001.17	1/2	3,725.16	1/2	3,426.02	1/2	3,064.94	1/2	2,704.05	1/2	2,343.33
3/4		3/4		3/4	4,500.42	3/4	4,252.00	3/4	3,995.64	3/4	3,719.20	3/4	3,418.49	3/4	3,057.42	3/4	2,696.54	3/4	2,335.82
11		11		11	4,494.19	11	4,246.85	11	3,990.08	11	3,713.21	11	3,410.96	11	3,049.90	11	2,689.02	11	2,328.30
1/4		1/4		1/4	4,487.95	1/4	4,241.70	1/4	3,984.51	1/4	3,707.21	1/4	3,403.42	1/4	3,042.39	1/4	2,681.50	1/4	2,320.79
1/2		1/2		1/2	4,481.72	1/2	4,236.55	1/2	3,978.95	1/2	3,701.22	1/2	3,395.89	1/2	3,034.87	1/2	2,673.98	1/2	2,313.28
3/4		3/4		3/4	4,475.49	3/4	4,231.39	3/4	3,973.39	3/4	3,695.23	3/4	3,388.36	3/4	3,027.35	3/4	2,666.46	3/4	2,305.77

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 58'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 501"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,298.25	0	1,938.05	0	1,584.13	0	1,227.83	0	871.95	0	511.79	0	150.83	0		0		0	
1/4	2,290.73	1/4	1,930.68	1/4	1,576.70	1/4	1,220.41	1/4	864.54	1/4	504.27	1/4	143.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,283.21	1/2	1,923.31	1/2	1,569.28	1/2	1,212.99	1/2	857.13	1/2	496.75	1/2	135.78	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,275.69	3/4	1,915.94	3/4	1,561.86	3/4	1,205.56	3/4	849.72	3/4	489.23	3/4	128.26	3/4	3/4	3/4	3/4	3/4	3/4
1	2,268.17	1	1,908.58	1	1,554.44	1	1,198.14	1	842.21	1	481.71	1	120.74	1	1	1	1	1	1
1/4	2,260.65	1/4	1,901.21	1/4	1,547.01	1/4	1,190.72	1/4	834.71	1/4	474.19	1/4	113.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,253.13	1/2	1,893.84	1/2	1,539.59	1/2	1,183.30	1/2	827.20	1/2	466.67	1/2	105.70	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,245.61	3/4	1,886.47	3/4	1,532.17	3/4	1,175.87	3/4	819.69	3/4	459.15	3/4	98.18	3/4	3/4	3/4	3/4	3/4	3/4
2	2,238.09	2	1,879.11	2	1,524.74	2	1,168.45	2	812.19	2	451.62	2	90.66	2	2	2	2	2	2
1/4	2,230.57	1/4	1,871.74	1/4	1,517.32	1/4	1,161.03	1/4	804.68	1/4	444.10	1/4	83.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,223.05	1/2	1,864.37	1/2	1,509.90	1/2	1,153.60	1/2	797.17	1/2	436.58	1/2	75.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,215.53	3/4	1,857.00	3/4	1,502.48	3/4	1,146.18	3/4	789.67	3/4	429.06	3/4	68.09	3/4	3/4	3/4	3/4	3/4	3/4
3	2,208.01	3	1,849.64	3	1,495.05	3	1,138.77	3	782.16	3	421.54	3	60.84	3	3	3	3	3	3
1/4	2,200.49	1/4	1,842.27	1/4	1,487.63	1/4	1,131.36	1/4	774.65	1/4	414.02	1/4	53.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,192.97	1/2	1,834.90	1/2	1,480.21	1/2	1,123.95	1/2	767.15	1/2	406.50	1/2	46.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,185.45	3/4	1,827.53	3/4	1,472.78	3/4	1,116.54	3/4	759.64	3/4	398.98	3/4	39.08	3/4	3/4	3/4	3/4	3/4	3/4
4	2,177.93	4	1,820.17	4	1,465.36	4	1,109.13	4	752.13	4	391.45	4	33.70	4	4	4	4	4	4
1/4	2,170.41	1/4	1,812.80	1/4	1,457.94	1/4	1,101.72	1/4	744.63	1/4	383.93	1/4	28.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,162.89	1/2	1,805.43	1/2	1,450.52	1/2	1,094.31	1/2	737.12	1/2	376.41	1/2	22.94	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,155.37	3/4	1,798.06	3/4	1,443.09	3/4	1,086.90	3/4	729.61	3/4	368.89	3/4	17.56	3/4	3/4	3/4	3/4	3/4	3/4
5	2,147.85	5	1,790.70	5	1,435.67	5	1,079.49	5	722.11	5	361.37	5		5	5	5	5	5	5
1/4	2,140.33	1/4	1,783.33	1/4	1,428.25	1/4	1,072.08	1/4	714.60	1/4	353.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,132.81	1/2	1,775.96	1/2	1,420.82	1/2	1,064.67	1/2	707.10	1/2	346.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,125.29	3/4	1,768.59	3/4	1,413.40	3/4	1,057.26	3/4	699.59	3/4	338.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,117.77	6	1,761.22	6	1,405.98	6	1,049.85	6	692.08	6	331.29	6		6	6	6	6	6	6
1/4	2,110.25	1/4	1,753.86	1/4	1,398.56	1/4	1,042.44	1/4	684.58	1/4	323.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,102.73	1/2	1,746.49	1/2	1,391.13	1/2	1,035.03	1/2	677.07	1/2	316.25	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,095.21	3/4	1,739.12	3/4	1,383.71	3/4	1,027.62	3/4	669.56	3/4	308.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,087.69	7	1,731.75	7	1,376.29	7	1,020.21	7	662.06	7	301.22	7		7	7	7	7	7	7
1/4	2,080.17	1/4	1,724.39	1/4	1,368.87	1/4	1,012.80	1/4	654.55	1/4	293.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,072.65	1/2	1,717.02	1/2	1,361.44	1/2	1,005.39	1/2	647.04	1/2	286.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,065.13	3/4	1,709.65	3/4	1,354.02	3/4	997.98	3/4	639.54	3/4	278.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,057.61	8	1,702.28	8	1,346.60	8	990.56	8	632.03	8	271.14	8		8	8	8	8	8	8
1/4	2,050.09	1/4	1,694.92	1/4	1,339.17	1/4	983.15	1/4	624.52	1/4	263.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,042.57	1/2	1,687.55	1/2	1,331.75	1/2	975.74	1/2	617.02	1/2	256.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,035.05	3/4	1,680.18	3/4	1,324.33	3/4	968.33	3/4	609.51	3/4	248.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,027.53	9	1,672.81	9	1,316.91	9	960.92	9	602.00	9	241.06	9		9	9	9	9	9	9
1/4	2,020.01	1/4	1,665.45	1/4	1,309.48	1/4	953.51	1/4	594.50	1/4	233.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,012.49	1/2	1,658.08	1/2	1,302.06	1/2	946.10	1/2	586.99	1/2	226.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,004.97	3/4	1,650.71	3/4	1,294.64	3/4	938.69	3/4	579.48	3/4	218.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,997.45	10	1,643.34	10	1,287.21	10	931.28	10	571.96	10	210.99	10		10	10	10	10	10	10
1/4	1,989.93	1/4	1,635.98	1/4	1,279.79	1/4	923.87	1/4	564.44	1/4	203.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,982.41	1/2	1,628.61	1/2	1,272.37	1/2	916.46	1/2	556.92	1/2	195.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,974.89	3/4	1,621.24	3/4	1,264.95	3/4	909.05	3/4	549.40	3/4	188.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,967.52	11	1,613.82	11	1,257.52	11	901.63	11	541.88	11	180.91	11		11	11	11	11	11	11
1/4	1,960.15	1/4	1,606.39	1/4	1,250.10	1/4	894.20	1/4	534.36	1/4	173.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,952.78	1/2	1,598.97	1/2	1,242.68	1/2	886.78	1/2	526.84	1/2	165.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,945.41	3/4	1,591.55	3/4	1,235.25	3/4	879.35	3/4	519.32	3/4	158.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2016 SW
CALCULATED: 11/18/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

PRECISION MEASUREMENT
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