



# BARGE "EMS 514B"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 284'-06"

March 18, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	21.43	0	355.97	0	718.01	0	1,081.08	0	1,444.14	0	1,807.45	0	2,170.76	0	2,534.07	0	2,897.29	0	3,260.46
1/4	25.67	1/4	363.39	1/4	725.58	1/4	1,088.63	1/4	1,451.71	1/4	1,815.02	1/4	2,178.33	1/4	2,541.64	1/4	2,904.85	1/4	3,268.03
1/2	29.91	1/2	370.81	1/2	733.15	1/2	1,096.19	1/2	1,459.28	1/2	1,822.59	1/2	2,185.90	1/2	2,549.21	1/2	2,912.42	1/2	3,275.60
3/4	34.16	3/4	378.23	3/4	740.72	3/4	1,103.75	3/4	1,466.84	3/4	1,830.16	3/4	2,193.47	3/4	2,556.78	3/4	2,919.98	3/4	3,283.16
1	38.40	1	385.65	1	748.29	1	1,111.30	1	1,474.41	1	1,837.73	1	2,201.04	1	2,564.35	1	2,927.55	1	3,290.73
1/4	43.90	1/4	393.08	1/4	755.86	1/4	1,118.86	1/4	1,481.98	1/4	1,845.29	1/4	2,208.61	1/4	2,571.92	1/4	2,935.12	1/4	3,298.29
1/2	49.41	1/2	400.50	1/2	763.43	1/2	1,126.42	1/2	1,489.55	1/2	1,852.86	1/2	2,216.18	1/2	2,579.49	1/2	2,942.68	1/2	3,305.86
3/4	54.91	3/4	407.92	3/4	770.99	3/4	1,133.97	3/4	1,497.12	3/4	1,860.43	3/4	2,223.74	3/4	2,587.06	3/4	2,950.25	3/4	3,313.43
2	60.41	2	415.34	2	778.56	2	1,141.53	2	1,504.69	2	1,868.00	2	2,231.31	2	2,594.63	2	2,957.82	2	3,320.99
1/4	67.18	1/4	422.89	1/4	786.13	1/4	1,149.09	1/4	1,512.26	1/4	1,875.57	1/4	2,238.88	1/4	2,602.19	1/4	2,965.38	1/4	3,328.56
1/2	73.94	1/2	430.44	1/2	793.70	1/2	1,156.64	1/2	1,519.83	1/2	1,883.14	1/2	2,246.45	1/2	2,609.76	1/2	2,972.95	1/2	3,336.13
3/4	80.71	3/4	437.99	3/4	801.27	3/4	1,164.20	3/4	1,527.40	3/4	1,890.71	3/4	2,254.02	3/4	2,617.33	3/4	2,980.51	3/4	3,343.69
3	87.47	3	445.54	3	808.84	3	1,171.76	3	1,534.97	3	1,898.28	3	2,261.59	3	2,624.90	3	2,988.08	3	3,351.26
1/4	94.95	1/4	453.11	1/4	816.41	1/4	1,179.31	1/4	1,542.53	1/4	1,905.85	1/4	2,269.16	1/4	2,632.47	1/4	2,995.65	1/4	3,358.82
1/2	102.42	1/2	460.68	1/2	823.98	1/2	1,186.87	1/2	1,550.10	1/2	1,913.42	1/2	2,276.73	1/2	2,640.03	1/2	3,003.21	1/2	3,366.39
3/4	109.90	3/4	468.25	3/4	831.54	3/4	1,194.43	3/4	1,557.67	3/4	1,920.98	3/4	2,284.30	3/4	2,647.60	3/4	3,010.78	3/4	3,373.96
4	117.37	4	475.82	4	839.11	4	1,201.98	4	1,565.24	4	1,928.55	4	2,291.87	4	2,655.17	4	3,018.34	4	3,381.52
1/4	124.93	1/4	483.38	1/4	846.68	1/4	1,209.54	1/4	1,572.81	1/4	1,936.12	1/4	2,299.43	1/4	2,662.73	1/4	3,025.91	1/4	3,389.09
1/2	132.48	1/2	490.95	1/2	854.25	1/2	1,217.10	1/2	1,580.38	1/2	1,943.69	1/2	2,307.00	1/2	2,670.30	1/2	3,033.48	1/2	3,396.65
3/4	140.04	3/4	498.52	3/4	861.82	3/4	1,224.65	3/4	1,587.95	3/4	1,951.26	3/4	2,314.57	3/4	2,677.87	3/4	3,041.04	3/4	3,404.22
5	147.59	5	506.09	5	869.39	5	1,232.21	5	1,595.52	5	1,958.83	5	2,322.14	5	2,685.43	5	3,048.61	5	3,411.79
1/4	155.14	1/4	513.66	1/4	876.96	1/4	1,239.78	1/4	1,603.09	1/4	1,966.40	1/4	2,329.71	1/4	2,693.00	1/4	3,056.18	1/4	3,419.35
1/2	162.70	1/2	521.23	1/2	884.52	1/2	1,247.35	1/2	1,610.66	1/2	1,973.97	1/2	2,337.28	1/2	2,700.56	1/2	3,063.74	1/2	3,426.92
3/4	170.25	3/4	528.80	3/4	892.09	3/4	1,254.91	3/4	1,618.22	3/4	1,981.54	3/4	2,344.85	3/4	2,708.13	3/4	3,071.31	3/4	3,434.49
6	177.81	6	536.36	6	899.66	6	1,262.48	6	1,625.79	6	1,989.11	6	2,352.42	6	2,715.70	6	3,078.87	6	3,442.05
1/4	185.24	1/4	543.93	1/4	907.23	1/4	1,270.05	1/4	1,633.36	1/4	1,996.67	1/4	2,359.99	1/4	2,723.26	1/4	3,086.44	1/4	3,449.62
1/2	192.68	1/2	551.50	1/2	914.80	1/2	1,277.62	1/2	1,640.93	1/2	2,004.24	1/2	2,367.56	1/2	2,730.83	1/2	3,094.01	1/2	3,457.18
3/4	200.12	3/4	559.07	3/4	922.37	3/4	1,285.19	3/4	1,648.50	3/4	2,011.81	3/4	2,375.12	3/4	2,738.40	3/4	3,101.57	3/4	3,464.75
7	207.56	7	566.64	7	929.94	7	1,292.76	7	1,656.07	7	2,019.38	7	2,382.69	7	2,745.96	7	3,109.14	7	3,472.32
1/4	214.98	1/4	574.21	1/4	937.50	1/4	1,300.33	1/4	1,663.64	1/4	2,026.95	1/4	2,390.26	1/4	2,753.53	1/4	3,116.71	1/4	3,479.88
1/2	222.40	1/2	581.78	1/2	945.05	1/2	1,307.90	1/2	1,671.21	1/2	2,034.52	1/2	2,397.83	1/2	2,761.09	1/2	3,124.27	1/2	3,487.45
3/4	229.82	3/4	589.35	3/4	952.61	3/4	1,315.46	3/4	1,678.78	3/4	2,042.09	3/4	2,405.40	3/4	2,768.66	3/4	3,131.84	3/4	3,495.02
8	237.24	8	596.91	8	960.17	8	1,323.03	8	1,686.35	8	2,049.66	8	2,412.97	8	2,776.23	8	3,139.40	8	3,502.58
1/4	244.66	1/4	604.48	1/4	967.73	1/4	1,330.60	1/4	1,693.91	1/4	2,057.23	1/4	2,420.54	1/4	2,783.79	1/4	3,146.97	1/4	3,510.15
1/2	252.08	1/2	612.05	1/2	975.28	1/2	1,338.17	1/2	1,701.48	1/2	2,064.80	1/2	2,428.11	1/2	2,791.36	1/2	3,154.54	1/2	3,517.71
3/4	259.50	3/4	619.62	3/4	982.84	3/4	1,345.74	3/4	1,709.05	3/4	2,072.36	3/4	2,435.68	3/4	2,798.92	3/4	3,162.10	3/4	3,525.28
9	266.92	9	627.19	9	990.40	9	1,353.31	9	1,716.62	9	2,079.93	9	2,443.25	9	2,806.49	9	3,169.67	9	3,532.85
1/4	274.34	1/4	634.76	1/4	997.95	1/4	1,360.88	1/4	1,724.19	1/4	2,087.50	1/4	2,450.81	1/4	2,814.06	1/4	3,177.23	1/4	3,540.41
1/2	281.76	1/2	642.33	1/2	1,005.51	1/2	1,368.45	1/2	1,731.76	1/2	2,095.07	1/2	2,458.38	1/2	2,821.62	1/2	3,184.80	1/2	3,547.98
3/4	289.18	3/4	649.90	3/4	1,013.07	3/4	1,376.02	3/4	1,739.33	3/4	2,102.64	3/4	2,465.95	3/4	2,829.19	3/4	3,192.37	3/4	3,555.54
10	296.60	10	657.46	10	1,020.62	10	1,383.59	10	1,746.90	10	2,110.21	10	2,473.52	10	2,836.76	10	3,199.93	10	3,563.11
1/4	304.03	1/4	665.03	1/4	1,028.18	1/4	1,391.15	1/4	1,754.47	1/4	2,117.78	1/4	2,481.09	1/4	2,844.32	1/4	3,207.50	1/4	3,570.68
1/2	311.45	1/2	672.60	1/2	1,035.74	1/2	1,398.72	1/2	1,762.04	1/2	2,125.35	1/2	2,488.66	1/2	2,851.89	1/2	3,215.07	1/2	3,578.24
3/4	318.87	3/4	680.17	3/4	1,043.29	3/4	1,406.29	3/4	1,769.60	3/4	2,132.92	3/4	2,496.23	3/4	2,859.45	3/4	3,222.63	3/4	3,585.81
11	326.29	11	687.74	11	1,050.85	11	1,413.86	11	1,777.17	11	2,140.49	11	2,503.80	11	2,867.02	11	3,230.20	11	3,593.38
1/4	333.71	1/4	695.31	1/4	1,058.41	1/4	1,421.43	1/4	1,784.74	1/4	2,148.05	1/4	2,511.37	1/4	2,874.59	1/4	3,237.76	1/4	3,600.94
1/2	341.13	1/2	702.88	1/2	1,065.96	1/2	1,429.00	1/2	1,792.31	1/2	2,155.62	1/2	2,518.94	1/2	2,882.15	1/2	3,245.33	1/2	3,608.51
3/4	348.55	3/4	710.44	3/4	1,073.52	3/4	1,436.57	3/4	1,799.88	3/4	2,163.19	3/4	2,526.50	3/4	2,889.72	3/4	3,252.90	3/4	3,616.07

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" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
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# BARGE "EMS 514B"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,623.64	0	3,986.82	0	4,349.30	0	4,698.34	0	5,029.04	0		0		0		0		0	
1/4	3,631.21	1/4	3,994.38	1/4	4,356.75	1/4	4,705.40	1/4	5,036.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.77	1/2	4,001.95	1/2	4,364.19	1/2	4,712.47	1/2	5,043.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.34	3/4	4,009.52	3/4	4,371.64	3/4	4,719.53	3/4	5,051.29	3/4		3/4		3/4		3/4		3/4	
1	3,653.91	1	4,017.08	1	4,379.09	1	4,726.60	1	5,058.70	1		1		1		1		1	
1/4	3,661.47	1/4	4,024.65	1/4	4,386.50	1/4	4,733.60	1/4	5,066.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.04	1/2	4,032.22	1/2	4,393.92	1/2	4,740.61	1/2	5,073.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.60	3/4	4,039.78	3/4	4,401.33	3/4	4,747.61	3/4	5,081.10	3/4		3/4		3/4		3/4		3/4	
2	3,684.17	2	4,047.35	2	4,408.75	2	4,754.62	2	5,088.57	2		2		2		2		2	
1/4	3,691.74	1/4	4,054.91	1/4	4,416.13	1/4	4,761.59	1/4	5,096.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.30	1/2	4,062.48	1/2	4,423.52	1/2	4,768.56	1/2	5,103.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.87	3/4	4,070.05	3/4	4,430.90	3/4	4,775.53	3/4	5,110.97	3/4		3/4		3/4		3/4		3/4	
3	3,714.44	3	4,077.61	3	4,438.29	3	4,782.50	3	5,118.44	3		3		3		3		3	
1/4	3,722.00	1/4	4,085.18	1/4	4,445.64	1/4	4,789.45	1/4	5,125.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.57	1/2	4,092.75	1/2	4,452.99	1/2	4,796.39	1/2	5,133.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.13	3/4	4,100.31	3/4	4,460.34	3/4	4,803.33	3/4	5,140.85	3/4		3/4		3/4		3/4		3/4	
4	3,744.70	4	4,107.88	4	4,467.70	4	4,810.27	4	5,148.31	4		4		4		4		4	
1/4	3,752.27	1/4	4,115.44	1/4	4,475.01	1/4	4,817.18	1/4	5,155.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.83	1/2	4,123.01	1/2	4,482.33	1/2	4,824.08	1/2	5,163.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.40	3/4	4,130.58	3/4	4,489.65	3/4	4,830.99	3/4	5,170.72	3/4		3/4		3/4		3/4		3/4	
5	3,774.96	5	4,138.14	5	4,496.97	5	4,837.90	5	5,178.19	5		5		5		5		5	
1/4	3,782.53	1/4	4,145.71	1/4	4,504.25	1/4	4,844.77	1/4	5,185.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.10	1/2	4,153.27	1/2	4,511.54	1/2	4,851.65	1/2	5,192.85	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.66	3/4	4,160.84	3/4	4,518.83	3/4	4,858.52	3/4	5,200.18	3/4		3/4		3/4		3/4		3/4	
6	3,805.23	6	4,168.41	6	4,526.12	6	4,865.39	6	5,207.51	6		6		6		6		6	
1/4	3,812.80	1/4	4,175.97	1/4	4,533.37	1/4	4,872.24	1/4	5,213.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,820.36	1/2	4,183.54	1/2	4,540.63	1/2	4,879.08	1/2	5,220.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.93	3/4	4,191.11	3/4	4,547.89	3/4	4,885.92	3/4	5,226.54	3/4		3/4		3/4		3/4		3/4	
7	3,835.49	7	4,198.67	7	4,555.14	7	4,892.76	7	5,232.88	7		7		7		7		7	
1/4	3,843.06	1/4	4,206.24	1/4	4,562.37	1/4	4,899.58	1/4	5,238.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,850.63	1/2	4,213.80	1/2	4,569.59	1/2	4,906.39	1/2	5,243.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,858.19	3/4	4,221.37	3/4	4,576.81	3/4	4,913.20	3/4	5,248.26	3/4		3/4		3/4		3/4		3/4	
8	3,865.76	8	4,228.94	8	4,584.04	8	4,920.01	8	5,253.39	8		8		8		8		8	
1/4	3,873.33	1/4	4,236.50	1/4	4,591.23	1/4	4,926.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.89	1/2	4,244.06	1/2	4,598.42	1/2	4,933.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.46	3/4	4,251.62	3/4	4,605.61	3/4	4,940.36	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,896.02	9	4,259.19	9	4,612.80	9	4,947.14	9		9		9		9		9		9	
1/4	3,903.59	1/4	4,266.73	1/4	4,619.95	1/4	4,953.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.16	1/2	4,274.27	1/2	4,627.11	1/2	4,960.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.72	3/4	4,281.81	3/4	4,634.27	3/4	4,967.40	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,926.29	10	4,289.36	10	4,641.43	10	4,974.15	10		10		10		10		10		10	
1/4	3,933.85	1/4	4,296.87	1/4	4,648.56	1/4	4,980.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.42	1/2	4,304.38	1/2	4,655.69	1/2	4,987.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.99	3/4	4,311.89	3/4	4,662.82	3/4	4,994.30	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,956.55	11	4,319.40	11	4,669.94	11	5,001.02	11		11		11		11		11		11	
1/4	3,964.12	1/4	4,326.87	1/4	4,677.04	1/4	5,008.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.69	1/2	4,334.35	1/2	4,684.14	1/2	5,015.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.25	3/4	4,341.83	3/4	4,691.24	3/4	5,022.03	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	21.44	0	356.17	0	718.42	0	1,080.76	0	1,443.05	0	1,806.57	0	2,170.09	0	2,533.61	0	2,896.82	0	3,260.21
1/4	25.69	1/4	363.60	1/4	725.99	1/4	1,088.28	1/4	1,450.63	1/4	1,814.15	1/4	2,177.66	1/4	2,541.18	1/4	2,904.40	1/4	3,267.78
1/2	29.93	1/2	371.02	1/2	733.56	1/2	1,095.80	1/2	1,458.20	1/2	1,821.72	1/2	2,185.24	1/2	2,548.76	1/2	2,911.97	1/2	3,275.35
3/4	34.18	3/4	378.45	3/4	741.14	3/4	1,103.32	3/4	1,465.77	3/4	1,829.29	3/4	2,192.81	3/4	2,556.33	3/4	2,919.54	3/4	3,282.92
1	38.42	1	385.87	1	748.71	1	1,110.84	1	1,473.35	1	1,836.87	1	2,200.38	1	2,563.90	1	2,927.11	1	3,290.49
1/4	43.93	1/4	393.30	1/4	756.28	1/4	1,118.36	1/4	1,480.92	1/4	1,844.44	1/4	2,207.96	1/4	2,571.48	1/4	2,934.68	1/4	3,298.06
1/2	49.43	1/2	400.72	1/2	763.86	1/2	1,125.88	1/2	1,488.49	1/2	1,852.01	1/2	2,215.53	1/2	2,579.05	1/2	2,942.25	1/2	3,305.63
3/4	54.94	3/4	408.15	3/4	771.43	3/4	1,133.41	3/4	1,496.07	3/4	1,859.59	3/4	2,223.10	3/4	2,586.62	3/4	2,949.82	3/4	3,313.20
2	60.45	2	415.57	2	779.00	2	1,140.93	2	1,503.64	2	1,867.16	2	2,230.68	2	2,594.20	2	2,957.39	2	3,320.77
1/4	67.22	1/4	423.13	1/4	786.58	1/4	1,148.45	1/4	1,511.21	1/4	1,874.73	1/4	2,238.25	1/4	2,601.77	1/4	2,964.96	1/4	3,328.34
1/2	73.99	1/2	430.68	1/2	794.15	1/2	1,155.97	1/2	1,518.79	1/2	1,882.30	1/2	2,245.82	1/2	2,609.34	1/2	2,972.53	1/2	3,335.91
3/4	80.75	3/4	438.24	3/4	801.72	3/4	1,163.49	3/4	1,526.36	3/4	1,889.88	3/4	2,253.40	3/4	2,616.92	3/4	2,980.10	3/4	3,343.48
3	87.52	3	445.79	3	809.29	3	1,171.01	3	1,533.93	3	1,897.45	3	2,260.97	3	2,624.49	3	2,987.67	3	3,351.05
1/4	95.00	1/4	453.36	1/4	816.87	1/4	1,178.53	1/4	1,541.51	1/4	1,905.02	1/4	2,268.54	1/4	2,632.06	1/4	2,995.24	1/4	3,358.63
1/2	102.48	1/2	460.94	1/2	824.44	1/2	1,186.06	1/2	1,549.08	1/2	1,912.60	1/2	2,276.12	1/2	2,639.63	1/2	3,002.81	1/2	3,366.20
3/4	109.96	3/4	468.51	3/4	832.01	3/4	1,193.58	3/4	1,556.65	3/4	1,920.17	3/4	2,283.69	3/4	2,647.20	3/4	3,010.38	3/4	3,373.77
4	117.44	4	476.08	4	839.59	4	1,201.10	4	1,564.23	4	1,927.74	4	2,291.26	4	2,654.77	4	3,017.95	4	3,381.34
1/4	125.00	1/4	483.66	1/4	847.16	1/4	1,208.62	1/4	1,571.80	1/4	1,935.32	1/4	2,298.84	1/4	2,662.33	1/4	3,025.52	1/4	3,388.91
1/2	132.56	1/2	491.23	1/2	854.73	1/2	1,216.14	1/2	1,579.37	1/2	1,942.89	1/2	2,306.41	1/2	2,669.89	1/2	3,033.09	1/2	3,396.48
3/4	140.11	3/4	498.80	3/4	862.31	3/4	1,223.66	3/4	1,586.95	3/4	1,950.46	3/4	2,313.98	3/4	2,677.45	3/4	3,040.66	3/4	3,404.05
5	147.67	5	506.37	5	869.88	5	1,231.18	5	1,594.52	5	1,958.04	5	2,321.56	5	2,685.00	5	3,048.23	5	3,411.62
1/4	155.23	1/4	513.95	1/4	877.45	1/4	1,238.72	1/4	1,602.09	1/4	1,965.61	1/4	2,329.13	1/4	2,692.56	1/4	3,055.81	1/4	3,419.19
1/2	162.79	1/2	521.52	1/2	885.02	1/2	1,246.25	1/2	1,609.67	1/2	1,973.18	1/2	2,336.70	1/2	2,700.12	1/2	3,063.38	1/2	3,426.76
3/4	170.35	3/4	529.09	3/4	892.60	3/4	1,253.78	3/4	1,617.24	3/4	1,980.76	3/4	2,344.28	3/4	2,707.68	3/4	3,070.95	3/4	3,434.33
6	177.91	6	536.67	6	900.17	6	1,261.31	6	1,624.81	6	1,988.33	6	2,351.85	6	2,715.24	6	3,078.52	6	3,441.90
1/4	185.35	1/4	544.24	1/4	907.71	1/4	1,268.88	1/4	1,632.39	1/4	1,995.90	1/4	2,359.42	1/4	2,722.80	1/4	3,086.09	1/4	3,449.47
1/2	192.79	1/2	551.81	1/2	915.25	1/2	1,276.45	1/2	1,639.96	1/2	2,003.48	1/2	2,367.00	1/2	2,730.35	1/2	3,093.66	1/2	3,457.04
3/4	200.23	3/4	559.39	3/4	922.78	3/4	1,284.02	3/4	1,647.53	3/4	2,011.05	3/4	2,374.57	3/4	2,737.91	3/4	3,101.23	3/4	3,464.61
7	207.67	7	566.96	7	930.32	7	1,291.59	7	1,655.11	7	2,018.62	7	2,382.14	7	2,745.47	7	3,108.80	7	3,472.18
1/4	215.10	1/4	574.53	1/4	937.85	1/4	1,299.16	1/4	1,662.68	1/4	2,026.20	1/4	2,389.72	1/4	2,753.03	1/4	3,116.37	1/4	3,479.75
1/2	222.52	1/2	582.10	1/2	945.37	1/2	1,306.73	1/2	1,670.25	1/2	2,033.77	1/2	2,397.29	1/2	2,760.59	1/2	3,123.94	1/2	3,487.32
3/4	229.95	3/4	589.68	3/4	952.89	3/4	1,314.31	3/4	1,677.83	3/4	2,041.34	3/4	2,404.86	3/4	2,768.14	3/4	3,131.51	3/4	3,494.89
8	237.37	8	597.25	8	960.41	8	1,321.88	8	1,685.40	8	2,048.92	8	2,412.44	8	2,775.70	8	3,139.08	8	3,502.46
1/4	244.80	1/4	604.82	1/4	967.94	1/4	1,329.45	1/4	1,692.97	1/4	2,056.49	1/4	2,420.01	1/4	2,783.27	1/4	3,146.65	1/4	3,510.04
1/2	252.22	1/2	612.40	1/2	975.46	1/2	1,337.03	1/2	1,700.55	1/2	2,064.06	1/2	2,427.58	1/2	2,790.84	1/2	3,154.22	1/2	3,517.61
3/4	259.65	3/4	619.97	3/4	982.98	3/4	1,344.60	3/4	1,708.12	3/4	2,071.64	3/4	2,435.16	3/4	2,798.41	3/4	3,161.79	3/4	3,525.18
9	267.07	9	627.54	9	990.50	9	1,352.17	9	1,715.69	9	2,079.21	9	2,442.73	9	2,805.98	9	3,169.36	9	3,532.75
1/4	274.50	1/4	635.12	1/4	998.02	1/4	1,359.75	1/4	1,723.27	1/4	2,086.78	1/4	2,450.30	1/4	2,813.55	1/4	3,176.93	1/4	3,540.32
1/2	281.92	1/2	642.69	1/2	1,005.54	1/2	1,367.32	1/2	1,730.84	1/2	2,094.36	1/2	2,457.88	1/2	2,821.12	1/2	3,184.50	1/2	3,547.89
3/4	289.35	3/4	650.26	3/4	1,013.06	3/4	1,374.89	3/4	1,738.41	3/4	2,101.93	3/4	2,465.45	3/4	2,828.69	3/4	3,192.07	3/4	3,555.46
10	296.77	10	657.83	10	1,020.59	10	1,382.47	10	1,745.99	10	2,109.50	10	2,473.02	10	2,836.26	10	3,199.64	10	3,563.03
1/4	304.20	1/4	665.41	1/4	1,028.11	1/4	1,390.04	1/4	1,753.56	1/4	2,117.08	1/4	2,480.60	1/4	2,843.83	1/4	3,207.22	1/4	3,570.60
1/2	311.62	1/2	672.98	1/2	1,035.63	1/2	1,397.61	1/2	1,761.13	1/2	2,124.65	1/2	2,488.17	1/2	2,851.40	1/2	3,214.79	1/2	3,578.17
3/4	319.05	3/4	680.55	3/4	1,043.15	3/4	1,405.19	3/4	1,768.71	3/4	2,132.22	3/4	2,495.74	3/4	2,858.97	3/4	3,222.36	3/4	3,585.74
11	326.47	11	688.13	11	1,050.67	11	1,412.76	11	1,776.28	11	2,139.80	11	2,503.32	11	2,866.54	11	3,229.93	11	3,593.31
1/4	333.90	1/4	695.70	1/4	1,058.19	1/4	1,420.33	1/4	1,783.85	1/4	2,147.37	1/4	2,510.89	1/4	2,874.11	1/4	3,237.50	1/4	3,600.88
1/2	341.32	1/2	703.27	1/2	1,065.71	1/2	1,427.91	1/2	1,791.43	1/2	2,154.94	1/2	2,518.46	1/2	2,881.68	1/2	3,245.07	1/2	3,608.45
3/4	348.75	3/4	710.85	3/4	1,073.23	3/4	1,435.48	3/4	1,799.00	3/4	2,162.52	3/4	2,526.04	3/4	2,889.25	3/4	3,252.64	3/4	3,616.02

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" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,623.59	0	3,986.98	0	4,349.66	0	4,698.89	0	5,029.77	0		0		0		0		0	
1/4	3,631.16	1/4	3,994.55	1/4	4,357.11	1/4	4,705.96	1/4	5,037.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.73	1/2	4,002.12	1/2	4,364.56	1/2	4,713.03	1/2	5,044.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.30	3/4	4,009.69	3/4	4,372.01	3/4	4,720.10	3/4	5,052.03	3/4		3/4		3/4		3/4		3/4	
1	3,653.87	1	4,017.26	1	4,379.46	1	4,727.17	1	5,059.45	1		1		1		1		1	
1/4	3,661.45	1/4	4,024.83	1/4	4,386.88	1/4	4,734.17	1/4	5,066.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.02	1/2	4,032.40	1/2	4,394.30	1/2	4,741.18	1/2	5,074.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.59	3/4	4,039.97	3/4	4,401.72	3/4	4,748.19	3/4	5,081.86	3/4		3/4		3/4		3/4		3/4	
2	3,684.16	2	4,047.54	2	4,409.14	2	4,755.20	2	5,089.34	2		2		2		2		2	
1/4	3,691.73	1/4	4,055.11	1/4	4,416.53	1/4	4,762.18	1/4	5,096.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.30	1/2	4,062.68	1/2	4,423.92	1/2	4,769.15	1/2	5,104.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,706.87	3/4	4,070.25	3/4	4,431.31	3/4	4,776.13	3/4	5,111.75	3/4		3/4		3/4		3/4		3/4	
3	3,714.44	3	4,077.82	3	4,438.70	3	4,783.10	3	5,119.22	3		3		3		3		3	
1/4	3,722.01	1/4	4,085.39	1/4	4,446.05	1/4	4,790.05	1/4	5,126.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.58	1/2	4,092.96	1/2	4,453.41	1/2	4,796.99	1/2	5,134.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.15	3/4	4,100.53	3/4	4,460.76	3/4	4,803.94	3/4	5,141.64	3/4		3/4		3/4		3/4		3/4	
4	3,744.72	4	4,108.10	4	4,468.12	4	4,810.88	4	5,149.11	4		4		4		4		4	
1/4	3,752.29	1/4	4,115.68	1/4	4,475.44	1/4	4,817.79	1/4	5,156.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,759.86	1/2	4,123.25	1/2	4,482.76	1/2	4,824.70	1/2	5,164.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.43	3/4	4,130.82	3/4	4,490.09	3/4	4,831.62	3/4	5,171.53	3/4		3/4		3/4		3/4		3/4	
5	3,775.00	5	4,138.39	5	4,497.41	5	4,838.53	5	5,179.00	5		5		5		5		5	
1/4	3,782.57	1/4	4,145.96	1/4	4,504.70	1/4	4,845.40	1/4	5,186.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.14	1/2	4,153.53	1/2	4,511.99	1/2	4,852.28	1/2	5,193.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.71	3/4	4,161.10	3/4	4,519.28	3/4	4,859.16	3/4	5,201.00	3/4		3/4		3/4		3/4		3/4	
6	3,805.28	6	4,168.67	6	4,526.57	6	4,866.04	6	5,208.33	6		6		6		6		6	
1/4	3,812.86	1/4	4,176.24	1/4	4,533.83	1/4	4,872.88	1/4	5,214.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,820.43	1/2	4,183.81	1/2	4,541.09	1/2	4,879.73	1/2	5,221.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,828.00	3/4	4,191.38	3/4	4,548.35	3/4	4,886.58	3/4	5,227.37	3/4		3/4		3/4		3/4		3/4	
7	3,835.57	7	4,198.95	7	4,555.62	7	4,893.42	7	5,233.72	7		7		7		7		7	
1/4	3,843.14	1/4	4,206.52	1/4	4,562.84	1/4	4,900.24	1/4	5,238.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,850.71	1/2	4,214.09	1/2	4,570.07	1/2	4,907.05	1/2	5,243.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,858.28	3/4	4,221.66	3/4	4,577.30	3/4	4,913.87	3/4	5,249.11	3/4		3/4		3/4		3/4		3/4	
8	3,865.85	8	4,229.23	8	4,584.53	8	4,920.69	8	5,254.24	8		8		8		8		8	
1/4	3,873.42	1/4	4,236.80	1/4	4,591.72	1/4	4,927.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.99	1/2	4,244.36	1/2	4,598.91	1/2	4,934.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.56	3/4	4,251.93	3/4	4,606.11	3/4	4,941.05	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,896.13	9	4,259.49	9	4,613.30	9	4,947.83	9		9		9		9		9		9	
1/4	3,903.70	1/4	4,267.04	1/4	4,620.46	1/4	4,954.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.27	1/2	4,274.59	1/2	4,627.63	1/2	4,961.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.84	3/4	4,282.13	3/4	4,634.79	3/4	4,968.10	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,926.41	10	4,289.68	10	4,641.95	10	4,974.85	10		10		10		10		10		10	
1/4	3,933.98	1/4	4,297.20	1/4	4,649.08	1/4	4,981.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.55	1/2	4,304.71	1/2	4,656.22	1/2	4,988.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.12	3/4	4,312.22	3/4	4,663.35	3/4	4,995.01	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,956.69	11	4,319.74	11	4,670.48	11	5,001.73	11		11		11		11		11		11	
1/4	3,964.27	1/4	4,327.22	1/4	4,677.58	1/4	5,008.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.84	1/2	4,334.70	1/2	4,684.69	1/2	5,015.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,979.41	3/4	4,342.18	3/4	4,691.79	3/4	5,022.76	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 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	21.37	0	354.94	0	715.94	0	1,077.96	0	1,439.98	0	1,802.25	0	2,164.52	0	2,526.79	0	2,888.96	0	3,251.11
1/4	25.60	1/4	362.34	1/4	723.49	1/4	1,085.50	1/4	1,447.53	1/4	1,809.80	1/4	2,172.07	1/4	2,534.34	1/4	2,896.51	1/4	3,258.65
1/2	29.83	1/2	369.74	1/2	731.03	1/2	1,093.03	1/2	1,455.07	1/2	1,817.35	1/2	2,179.62	1/2	2,541.89	1/2	2,904.05	1/2	3,266.19
3/4	34.06	3/4	377.14	3/4	738.58	3/4	1,100.57	3/4	1,462.62	3/4	1,824.89	3/4	2,187.16	3/4	2,549.43	3/4	2,911.60	3/4	3,273.74
1	38.29	1	384.54	1	746.13	1	1,108.10	1	1,470.17	1	1,832.44	1	2,194.71	1	2,556.98	1	2,919.14	1	3,281.28
1/4	43.78	1/4	391.94	1/4	753.68	1/4	1,115.64	1/4	1,477.72	1/4	1,839.99	1/4	2,202.26	1/4	2,564.53	1/4	2,926.69	1/4	3,288.83
1/2	49.27	1/2	399.34	1/2	761.22	1/2	1,123.17	1/2	1,485.26	1/2	1,847.53	1/2	2,209.80	1/2	2,572.08	1/2	2,934.23	1/2	3,296.37
3/4	54.75	3/4	406.73	3/4	768.77	3/4	1,130.71	3/4	1,492.81	3/4	1,855.08	3/4	2,217.35	3/4	2,579.62	3/4	2,941.78	3/4	3,303.92
2	60.24	2	414.13	2	776.32	2	1,138.24	2	1,500.36	2	1,862.63	2	2,224.90	2	2,587.17	2	2,949.32	2	3,311.46
1/4	66.99	1/4	421.66	1/4	783.86	1/4	1,145.78	1/4	1,507.91	1/4	1,870.18	1/4	2,232.45	1/4	2,594.72	1/4	2,956.87	1/4	3,319.01
1/2	73.73	1/2	429.19	1/2	791.41	1/2	1,153.31	1/2	1,515.45	1/2	1,877.72	1/2	2,239.99	1/2	2,602.26	1/2	2,964.41	1/2	3,326.55
3/4	80.48	3/4	436.72	3/4	798.96	3/4	1,160.85	3/4	1,523.00	3/4	1,885.27	3/4	2,247.54	3/4	2,609.81	3/4	2,971.96	3/4	3,334.10
3	87.22	3	444.25	3	806.50	3	1,168.38	3	1,530.55	3	1,892.82	3	2,255.09	3	2,617.36	3	2,979.50	3	3,341.64
1/4	94.68	1/4	451.80	1/4	814.05	1/4	1,175.92	1/4	1,538.10	1/4	1,900.37	1/4	2,262.64	1/4	2,624.90	1/4	2,987.04	1/4	3,349.19
1/2	102.13	1/2	459.34	1/2	821.60	1/2	1,183.45	1/2	1,545.64	1/2	1,907.91	1/2	2,270.18	1/2	2,632.45	1/2	2,994.59	1/2	3,356.73
3/4	109.58	3/4	466.89	3/4	829.15	3/4	1,190.99	3/4	1,553.19	3/4	1,915.46	3/4	2,277.73	3/4	2,639.99	3/4	3,002.13	3/4	3,364.27
4	117.04	4	474.44	4	836.69	4	1,198.52	4	1,560.74	4	1,923.01	4	2,285.28	4	2,647.54	4	3,009.68	4	3,371.82
1/4	124.57	1/4	481.98	1/4	844.24	1/4	1,206.06	1/4	1,568.28	1/4	1,930.55	1/4	2,292.83	1/4	2,655.08	1/4	3,017.22	1/4	3,379.36
1/2	132.10	1/2	489.53	1/2	851.79	1/2	1,213.60	1/2	1,575.83	1/2	1,938.10	1/2	2,300.37	1/2	2,662.63	1/2	3,024.77	1/2	3,386.91
3/4	139.63	3/4	497.08	3/4	859.33	3/4	1,221.13	3/4	1,583.38	3/4	1,945.65	3/4	2,307.92	3/4	2,670.17	3/4	3,032.31	3/4	3,394.45
5	147.17	5	504.62	5	866.88	5	1,228.67	5	1,590.93	5	1,953.20	5	2,315.47	5	2,677.72	5	3,039.86	5	3,402.00
1/4	154.70	1/4	512.17	1/4	874.43	1/4	1,236.21	1/4	1,598.47	1/4	1,960.74	1/4	2,323.01	1/4	2,685.26	1/4	3,047.40	1/4	3,409.54
1/2	162.23	1/2	519.72	1/2	881.97	1/2	1,243.76	1/2	1,606.02	1/2	1,968.29	1/2	2,330.56	1/2	2,692.81	1/2	3,054.95	1/2	3,417.09
3/4	169.76	3/4	527.27	3/4	889.52	3/4	1,251.30	3/4	1,613.57	3/4	1,975.84	3/4	2,338.11	3/4	2,700.35	3/4	3,062.49	3/4	3,424.63
6	177.30	6	534.81	6	897.07	6	1,258.84	6	1,621.12	6	1,983.39	6	2,345.66	6	2,707.89	6	3,070.04	6	3,432.18
1/4	184.71	1/4	542.36	1/4	904.62	1/4	1,266.39	1/4	1,628.66	1/4	1,990.93	1/4	2,353.20	1/4	2,715.44	1/4	3,077.58	1/4	3,439.72
1/2	192.13	1/2	549.91	1/2	912.16	1/2	1,273.94	1/2	1,636.21	1/2	1,998.48	1/2	2,360.75	1/2	2,722.98	1/2	3,085.12	1/2	3,447.27
3/4	199.54	3/4	557.45	3/4	919.71	3/4	1,281.49	3/4	1,643.76	3/4	2,006.03	3/4	2,368.30	3/4	2,730.53	3/4	3,092.67	3/4	3,454.81
7	206.96	7	565.00	7	927.26	7	1,289.03	7	1,651.30	7	2,013.57	7	2,375.85	7	2,738.07	7	3,100.21	7	3,462.35
1/4	214.36	1/4	572.55	1/4	934.79	1/4	1,296.58	1/4	1,658.85	1/4	2,021.12	1/4	2,383.39	1/4	2,745.62	1/4	3,107.76	1/4	3,469.90
1/2	221.76	1/2	580.09	1/2	942.33	1/2	1,304.13	1/2	1,666.40	1/2	2,028.67	1/2	2,390.94	1/2	2,753.16	1/2	3,115.30	1/2	3,477.44
3/4	229.16	3/4	587.64	3/4	949.87	3/4	1,311.68	3/4	1,673.95	3/4	2,036.22	3/4	2,398.49	3/4	2,760.71	3/4	3,122.85	3/4	3,484.99
8	236.55	8	595.19	8	957.40	8	1,319.22	8	1,681.49	8	2,043.76	8	2,406.03	8	2,768.25	8	3,130.39	8	3,492.53
1/4	243.95	1/4	602.74	1/4	964.94	1/4	1,326.77	1/4	1,689.04	1/4	2,051.31	1/4	2,413.58	1/4	2,775.80	1/4	3,137.94	1/4	3,500.08
1/2	251.35	1/2	610.28	1/2	972.47	1/2	1,334.32	1/2	1,696.59	1/2	2,058.86	1/2	2,421.13	1/2	2,783.34	1/2	3,145.48	1/2	3,507.62
3/4	258.75	3/4	617.83	3/4	980.01	3/4	1,341.87	3/4	1,704.14	3/4	2,066.41	3/4	2,428.68	3/4	2,790.89	3/4	3,153.03	3/4	3,515.17
9	266.15	9	625.38	9	987.54	9	1,349.41	9	1,711.68	9	2,073.95	9	2,436.22	9	2,798.43	9	3,160.57	9	3,522.71
1/4	273.55	1/4	632.92	1/4	995.08	1/4	1,356.96	1/4	1,719.23	1/4	2,081.50	1/4	2,443.77	1/4	2,805.97	1/4	3,168.12	1/4	3,530.26
1/2	280.95	1/2	640.47	1/2	1,002.61	1/2	1,364.51	1/2	1,726.78	1/2	2,089.05	1/2	2,451.32	1/2	2,813.52	1/2	3,175.66	1/2	3,537.80
3/4	288.35	3/4	648.02	3/4	1,010.15	3/4	1,372.05	3/4	1,734.32	3/4	2,096.60	3/4	2,458.87	3/4	2,821.06	3/4	3,183.20	3/4	3,545.35
10	295.75	10	655.56	10	1,017.68	10	1,379.60	10	1,741.87	10	2,104.14	10	2,466.41	10	2,828.61	10	3,190.75	10	3,552.89
1/4	303.15	1/4	663.11	1/4	1,025.22	1/4	1,387.15	1/4	1,749.42	1/4	2,111.69	1/4	2,473.96	1/4	2,836.15	1/4	3,198.29	1/4	3,560.43
1/2	310.55	1/2	670.66	1/2	1,032.75	1/2	1,394.70	1/2	1,756.97	1/2	2,119.24	1/2	2,481.51	1/2	2,843.70	1/2	3,205.84	1/2	3,567.98
3/4	317.95	3/4	678.21	3/4	1,040.29	3/4	1,402.24	3/4	1,764.51	3/4	2,126.78	3/4	2,489.05	3/4	2,851.24	3/4	3,213.38	3/4	3,575.52
11	325.34	11	685.75	11	1,047.82	11	1,409.79	11	1,772.06	11	2,134.33	11	2,496.60	11	2,858.79	11	3,220.93	11	3,583.07
1/4	332.74	1/4	693.30	1/4	1,055.36	1/4	1,417.34	1/4	1,779.61	1/4	2,141.88	1/4	2,504.15	1/4	2,866.33	1/4	3,228.47	1/4	3,590.61
1/2	340.14	1/2	700.85	1/2	1,062.89	1/2	1,424.89	1/2	1,787.16	1/2	2,149.43	1/2	2,511.70	1/2	2,873.88	1/2	3,236.02	1/2	3,598.16
3/4	347.54	3/4	708.39	3/4	1,070.43	3/4	1,432.43	3/4	1,794.70	3/4	2,156.97	3/4	2,519.24	3/4	2,881.42	3/4	3,243.56	3/4	3,605.70

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,613.25	0	3,975.39	0	4,336.81	0	4,684.85	0	5,014.59	0		0		0		0		0	
1/4	3,620.79	1/4	3,982.93	1/4	4,344.24	1/4	4,691.89	1/4	5,021.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.34	1/2	3,990.48	1/2	4,351.66	1/2	4,698.93	1/2	5,029.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,635.88	3/4	3,998.02	3/4	4,359.09	3/4	4,706.98	3/4	5,036.77	3/4		3/4		3/4		3/4		3/4	
1	3,643.42	1	4,005.57	1	4,366.51	1	4,713.02	1	5,044.16	1		1		1		1		1	
1/4	3,650.97	1/4	4,013.11	1/4	4,373.91	1/4	4,720.01	1/4	5,051.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.51	1/2	4,020.65	1/2	4,381.30	1/2	4,726.99	1/2	5,059.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.06	3/4	4,028.20	3/4	4,388.69	3/4	4,733.98	3/4	5,066.50	3/4		3/4		3/4		3/4		3/4	
2	3,673.60	2	4,035.74	2	4,396.09	2	4,740.96	2	5,073.94	2		2		2		2		2	
1/4	3,681.15	1/4	4,043.29	1/4	4,403.45	1/4	4,747.92	1/4	5,081.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,688.69	1/2	4,050.83	1/2	4,410.82	1/2	4,754.87	1/2	5,088.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,696.24	3/4	4,058.38	3/4	4,418.18	3/4	4,761.82	3/4	5,096.28	3/4		3/4		3/4		3/4		3/4	
3	3,703.78	3	4,065.92	3	4,425.54	3	4,768.77	3	5,103.73	3		3		3		3		3	
1/4	3,711.33	1/4	4,073.47	1/4	4,432.88	1/4	4,775.69	1/4	5,111.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,718.87	1/2	4,081.01	1/2	4,440.21	1/2	4,782.61	1/2	5,118.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.42	3/4	4,088.56	3/4	4,447.54	3/4	4,789.53	3/4	5,126.07	3/4		3/4		3/4		3/4		3/4	
4	3,733.96	4	4,096.10	4	4,454.87	4	4,796.45	4	5,133.51	4		4		4		4		4	
1/4	3,741.50	1/4	4,103.65	1/4	4,462.16	1/4	4,803.34	1/4	5,140.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.05	1/2	4,111.19	1/2	4,469.46	1/2	4,810.23	1/2	5,148.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,756.59	3/4	4,118.73	3/4	4,476.76	3/4	4,817.11	3/4	5,155.85	3/4		3/4		3/4		3/4		3/4	
5	3,764.14	5	4,126.28	5	4,484.05	5	4,824.00	5	5,163.30	5		5		5		5		5	
1/4	3,771.68	1/4	4,133.82	1/4	4,491.32	1/4	4,830.86	1/4	5,170.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,779.23	1/2	4,141.37	1/2	4,498.59	1/2	4,837.71	1/2	5,177.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,786.77	3/4	4,148.91	3/4	4,505.85	3/4	4,844.56	3/4	5,185.22	3/4		3/4		3/4		3/4		3/4	
6	3,794.32	6	4,156.46	6	4,513.12	6	4,851.42	6	5,192.53	6		6		6		6		6	
1/4	3,801.86	1/4	4,164.00	1/4	4,520.35	1/4	4,858.24	1/4	5,198.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,809.41	1/2	4,171.55	1/2	4,527.59	1/2	4,865.06	1/2	5,205.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,816.95	3/4	4,179.09	3/4	4,534.83	3/4	4,871.88	3/4	5,211.51	3/4		3/4		3/4		3/4		3/4	
7	3,824.50	7	4,186.64	7	4,542.06	7	4,878.71	7	5,217.84	7		7		7		7		7	
1/4	3,832.04	1/4	4,194.18	1/4	4,549.27	1/4	4,885.50	1/4	5,222.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,839.58	1/2	4,201.73	1/2	4,556.47	1/2	4,892.29	1/2	5,228.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,847.13	3/4	4,209.27	3/4	4,563.67	3/4	4,899.09	3/4	5,233.17	3/4		3/4		3/4		3/4		3/4	
8	3,854.67	8	4,216.81	8	4,570.87	8	4,905.88	8	5,238.28	8		8		8		8		8	
1/4	3,862.22	1/4	4,224.35	1/4	4,578.04	1/4	4,912.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,869.76	1/2	4,231.89	1/2	4,585.21	1/2	4,919.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.31	3/4	4,239.42	3/4	4,592.38	3/4	4,926.17	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,884.85	9	4,246.96	9	4,599.55	9	4,932.93	9		9		9		9		9		9	
1/4	3,892.40	1/4	4,254.48	1/4	4,606.69	1/4	4,939.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.94	1/2	4,262.00	1/2	4,613.83	1/2	4,946.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.49	3/4	4,269.52	3/4	4,620.96	3/4	4,953.12	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,915.03	10	4,277.04	10	4,628.10	10	4,959.86	10		10		10		10		10		10	
1/4	3,922.58	1/4	4,284.53	1/4	4,635.21	1/4	4,966.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,930.12	1/2	4,292.02	1/2	4,642.32	1/2	4,973.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,937.66	3/4	4,299.51	3/4	4,649.43	3/4	4,979.95	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,945.21	11	4,307.00	11	4,656.53	11	4,986.65	11		11		11		11		11		11	
1/4	3,952.75	1/4	4,314.45	1/4	4,663.61	1/4	4,993.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,960.30	1/2	4,321.91	1/2	4,670.69	1/2	5,000.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.84	3/4	4,329.36	3/4	4,677.77	3/4	5,007.60	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.32	0	354.10	0	714.24	0	1,067.62	0	1,420.68	0	1,782.09	0	2,143.50	0	2,504.91	0	2,864.50	0	3,225.78
1/4	25.54	1/4	361.48	1/4	721.77	1/4	1,074.81	1/4	1,428.21	1/4	1,789.62	1/4	2,151.03	1/4	2,512.44	1/4	2,872.03	1/4	3,233.31
1/2	29.76	1/2	368.86	1/2	729.30	1/2	1,082.00	1/2	1,435.74	1/2	1,797.15	1/2	2,158.56	1/2	2,519.97	1/2	2,879.56	1/2	3,240.83
3/4	33.98	3/4	376.24	3/4	736.83	3/4	1,089.18	3/4	1,443.26	3/4	1,804.68	3/4	2,166.09	3/4	2,527.50	3/4	2,887.08	3/4	3,248.36
1	38.20	1	383.62	1	744.35	1	1,096.37	1	1,450.79	1	1,812.20	1	2,173.62	1	2,535.03	1	2,894.61	1	3,255.89
1/4	43.67	1/4	391.01	1/4	751.88	1/4	1,103.56	1/4	1,458.32	1/4	1,819.73	1/4	2,181.15	1/4	2,542.56	1/4	2,902.14	1/4	3,263.41
1/2	49.15	1/2	398.39	1/2	759.41	1/2	1,110.74	1/2	1,465.85	1/2	1,827.26	1/2	2,188.67	1/2	2,550.09	1/2	2,909.66	1/2	3,270.94
3/4	54.62	3/4	405.77	3/4	766.94	3/4	1,117.93	3/4	1,473.38	3/4	1,834.79	3/4	2,196.20	3/4	2,557.62	3/4	2,917.19	3/4	3,278.47
2	60.10	2	413.15	2	774.47	2	1,125.11	2	1,480.91	2	1,842.32	2	2,203.73	2	2,565.14	2	2,924.72	2	3,285.99
1/4	66.83	1/4	420.66	1/4	782.00	1/4	1,132.30	1/4	1,488.44	1/4	1,849.85	1/4	2,211.26	1/4	2,572.67	1/4	2,932.24	1/4	3,293.52
1/2	73.56	1/2	428.17	1/2	789.53	1/2	1,139.49	1/2	1,495.97	1/2	1,857.38	1/2	2,218.79	1/2	2,580.20	1/2	2,939.77	1/2	3,301.05
3/4	80.29	3/4	435.68	3/4	797.06	3/4	1,146.67	3/4	1,503.50	3/4	1,864.91	3/4	2,226.32	3/4	2,587.73	3/4	2,947.30	3/4	3,308.57
3	87.02	3	443.19	3	804.59	3	1,153.86	3	1,511.03	3	1,872.44	3	2,233.85	3	2,595.26	3	2,954.82	3	3,316.10
1/4	94.45	1/4	450.72	1/4	812.12	1/4	1,161.05	1/4	1,518.56	1/4	1,879.97	1/4	2,241.38	1/4	2,602.79	1/4	2,962.35	1/4	3,323.63
1/2	101.89	1/2	458.25	1/2	819.65	1/2	1,168.23	1/2	1,526.09	1/2	1,887.50	1/2	2,248.91	1/2	2,610.31	1/2	2,969.87	1/2	3,331.15
3/4	109.32	3/4	465.78	3/4	827.17	3/4	1,175.42	3/4	1,533.62	3/4	1,895.03	3/4	2,256.44	3/4	2,617.83	3/4	2,977.40	3/4	3,338.68
4	116.76	4	473.31	4	834.70	4	1,182.61	4	1,541.15	4	1,902.56	4	2,263.97	4	2,625.35	4	2,984.93	4	3,346.20
1/4	124.27	1/4	480.84	1/4	842.23	1/4	1,189.79	1/4	1,548.68	1/4	1,910.09	1/4	2,271.50	1/4	2,632.79	1/4	2,992.45	1/4	3,353.73
1/2	131.79	1/2	488.37	1/2	849.76	1/2	1,196.98	1/2	1,556.21	1/2	1,917.62	1/2	2,279.03	1/2	2,640.22	1/2	2,999.98	1/2	3,361.26
3/4	139.30	3/4	495.89	3/4	857.29	3/4	1,204.16	3/4	1,563.73	3/4	1,925.15	3/4	2,286.56	3/4	2,647.65	3/4	3,007.51	3/4	3,368.78
5	146.82	5	503.42	5	864.82	5	1,211.35	5	1,571.26	5	1,932.68	5	2,294.09	5	2,655.09	5	3,015.03	5	3,376.31
1/4	154.33	1/4	510.95	1/4	872.35	1/4	1,218.55	1/4	1,578.79	1/4	1,940.20	1/4	2,301.62	1/4	2,662.51	1/4	3,022.56	1/4	3,383.84
1/2	161.84	1/2	518.48	1/2	879.88	1/2	1,225.74	1/2	1,586.32	1/2	1,947.73	1/2	2,309.15	1/2	2,669.93	1/2	3,030.09	1/2	3,391.36
3/4	169.36	3/4	526.01	3/4	887.41	3/4	1,232.94	3/4	1,593.85	3/4	1,955.26	3/4	2,316.67	3/4	2,677.35	3/4	3,037.61	3/4	3,398.89
6	176.87	6	533.54	6	894.94	6	1,240.14	6	1,601.38	6	1,962.79	6	2,324.20	6	2,684.77	6	3,045.14	6	3,406.42
1/4	184.27	1/4	541.07	1/4	902.17	1/4	1,247.62	1/4	1,608.91	1/4	1,970.32	1/4	2,331.73	1/4	2,692.19	1/4	3,052.67	1/4	3,413.94
1/2	191.67	1/2	548.60	1/2	909.41	1/2	1,255.11	1/2	1,616.44	1/2	1,977.85	1/2	2,339.26	1/2	2,699.61	1/2	3,060.19	1/2	3,421.47
3/4	199.07	3/4	556.13	3/4	916.65	3/4	1,262.60	3/4	1,623.97	3/4	1,985.38	3/4	2,346.79	3/4	2,707.03	3/4	3,067.72	3/4	3,429.00
7	206.47	7	563.66	7	923.89	7	1,270.09	7	1,631.50	7	1,992.91	7	2,354.32	7	2,714.45	7	3,075.25	7	3,436.52
1/4	213.85	1/4	571.19	1/4	931.08	1/4	1,277.62	1/4	1,639.03	1/4	2,000.44	1/4	2,361.85	1/4	2,721.87	1/4	3,082.77	1/4	3,444.05
1/2	221.23	1/2	578.71	1/2	938.26	1/2	1,285.15	1/2	1,646.56	1/2	2,007.97	1/2	2,369.38	1/2	2,729.29	1/2	3,090.30	1/2	3,451.58
3/4	228.61	3/4	586.24	3/4	945.45	3/4	1,292.68	3/4	1,654.09	3/4	2,015.50	3/4	2,376.91	3/4	2,736.71	3/4	3,097.83	3/4	3,459.10
8	235.99	8	593.77	8	952.64	8	1,300.21	8	1,661.62	8	2,023.03	8	2,384.44	8	2,744.13	8	3,105.35	8	3,466.63
1/4	243.37	1/4	601.30	1/4	959.83	1/4	1,307.74	1/4	1,669.15	1/4	2,030.56	1/4	2,391.97	1/4	2,751.64	1/4	3,112.88	1/4	3,474.16
1/2	250.75	1/2	608.83	1/2	967.01	1/2	1,315.26	1/2	1,676.68	1/2	2,038.09	1/2	2,399.50	1/2	2,759.16	1/2	3,120.41	1/2	3,481.68
3/4	258.14	3/4	616.36	3/4	974.20	3/4	1,322.79	3/4	1,684.21	3/4	2,045.62	3/4	2,407.03	3/4	2,766.67	3/4	3,127.93	3/4	3,489.21
9	265.52	9	623.89	9	981.39	9	1,330.32	9	1,691.73	9	2,053.15	9	2,414.56	9	2,774.18	9	3,135.46	9	3,496.74
1/4	272.90	1/4	631.42	1/4	988.57	1/4	1,337.85	1/4	1,699.26	1/4	2,060.68	1/4	2,422.09	1/4	2,781.71	1/4	3,142.99	1/4	3,504.26
1/2	280.28	1/2	638.95	1/2	995.76	1/2	1,345.38	1/2	1,706.79	1/2	2,068.20	1/2	2,429.62	1/2	2,789.24	1/2	3,150.51	1/2	3,511.79
3/4	287.66	3/4	646.48	3/4	1,002.95	3/4	1,352.91	3/4	1,714.32	3/4	2,075.73	3/4	2,437.15	3/4	2,796.76	3/4	3,158.04	3/4	3,519.32
10	295.04	10	654.01	10	1,010.13	10	1,360.44	10	1,721.85	10	2,083.26	10	2,444.67	10	2,804.29	10	3,165.57	10	3,526.84
1/4	302.43	1/4	661.53	1/4	1,017.32	1/4	1,367.97	1/4	1,729.38	1/4	2,090.79	1/4	2,452.20	1/4	2,811.82	1/4	3,173.09	1/4	3,534.37
1/2	309.81	1/2	669.06	1/2	1,024.50	1/2	1,375.50	1/2	1,736.91	1/2	2,098.32	1/2	2,459.73	1/2	2,819.34	1/2	3,180.62	1/2	3,541.90
3/4	317.19	3/4	676.59	3/4	1,031.69	3/4	1,383.03	3/4	1,744.44	3/4	2,105.85	3/4	2,467.26	3/4	2,826.87	3/4	3,188.15	3/4	3,549.42
11	324.57	11	684.12	11	1,038.88	11	1,390.56	11	1,751.97	11	2,113.38	11	2,474.79	11	2,834.40	11	3,195.67	11	3,556.95
1/4	331.95	1/4	691.65	1/4	1,046.06	1/4	1,398.09	1/4	1,759.50	1/4	2,120.91	1/4	2,482.32	1/4	2,841.92	1/4	3,203.20	1/4	3,564.48
1/2	339.33	1/2	699.18	1/2	1,053.25	1/2	1,405.62	1/2	1,767.03	1/2	2,128.44	1/2	2,489.85	1/2	2,849.45	1/2	3,210.73	1/2	3,572.00
3/4	346.72	3/4	706.71	3/4	1,060.44	3/4	1,413.15	3/4	1,774.56	3/4	2,135.97	3/4	2,497.38	3/4	2,856.98	3/4	3,218.25	3/4	3,579.53

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" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "EMS 514B"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,587.06	0	3,948.33	0	4,308.90	0	4,656.11	0	4,985.08	0		0		0		0		0	
1/4	3,594.58	1/4	3,955.86	1/4	4,316.31	1/4	4,663.14	1/4	4,992.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,602.11	1/2	3,963.39	1/2	4,323.72	1/2	4,670.17	1/2	4,999.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,609.64	3/4	3,970.91	3/4	4,331.12	3/4	4,677.19	3/4	5,007.20	3/4		3/4		3/4		3/4		3/4	
1	3,617.16	1	3,978.44	1	4,338.53	1	4,684.22	1	5,014.58	1		1		1		1		1	
1/4	3,624.69	1/4	3,985.97	1/4	4,345.91	1/4	4,691.19	1/4	5,022.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.22	1/2	3,993.49	1/2	4,353.28	1/2	4,698.16	1/2	5,029.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.74	3/4	4,001.02	3/4	4,360.66	3/4	4,705.13	3/4	5,036.87	3/4		3/4		3/4		3/4		3/4	
2	3,647.27	2	4,008.55	2	4,368.04	2	4,712.10	2	5,044.29	2		2		2		2		2	
1/4	3,654.80	1/4	4,016.07	1/4	4,375.38	1/4	4,719.03	1/4	5,051.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,662.32	1/2	4,023.60	1/2	4,382.73	1/2	4,725.96	1/2	5,059.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.85	3/4	4,031.13	3/4	4,390.08	3/4	4,732.90	3/4	5,066.58	3/4		3/4		3/4		3/4		3/4	
3	3,677.38	3	4,038.65	3	4,397.42	3	4,739.83	3	5,074.01	3		3		3		3		3	
1/4	3,684.90	1/4	4,046.18	1/4	4,404.74	1/4	4,746.74	1/4	5,081.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,692.43	1/2	4,053.71	1/2	4,412.05	1/2	4,753.64	1/2	5,088.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.96	3/4	4,061.23	3/4	4,419.36	3/4	4,760.55	3/4	5,096.29	3/4		3/4		3/4		3/4		3/4	
4	3,707.48	4	4,068.76	4	4,426.68	4	4,767.45	4	5,103.72	4		4		4		4		4	
1/4	3,715.01	1/4	4,076.29	1/4	4,433.95	1/4	4,774.32	1/4	5,111.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,722.54	1/2	4,083.81	1/2	4,441.23	1/2	4,781.20	1/2	5,118.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,730.06	3/4	4,091.34	3/4	4,448.51	3/4	4,788.07	3/4	5,126.01	3/4		3/4		3/4		3/4		3/4	
5	3,737.59	5	4,098.87	5	4,455.79	5	4,794.94	5	5,133.43	5		5		5		5		5	
1/4	3,745.11	1/4	4,106.39	1/4	4,463.04	1/4	4,801.78	1/4	5,140.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,752.64	1/2	4,113.92	1/2	4,470.29	1/2	4,808.61	1/2	5,148.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,760.17	3/4	4,121.44	3/4	4,477.54	3/4	4,815.45	3/4	5,155.31	3/4		3/4		3/4		3/4		3/4	
6	3,767.69	6	4,128.97	6	4,484.79	6	4,822.29	6	5,162.60	6		6		6		6		6	
1/4	3,775.22	1/4	4,136.50	1/4	4,492.01	1/4	4,829.09	1/4	5,168.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,782.75	1/2	4,144.02	1/2	4,499.23	1/2	4,835.90	1/2	5,175.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,790.27	3/4	4,151.55	3/4	4,506.44	3/4	4,842.71	3/4	5,181.53	3/4		3/4		3/4		3/4		3/4	
7	3,797.80	7	4,159.08	7	4,513.66	7	4,849.52	7	5,187.84	7		7		7		7		7	
1/4	3,805.33	1/4	4,166.60	1/4	4,520.85	1/4	4,856.29	1/4	5,192.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,812.85	1/2	4,174.13	1/2	4,528.04	1/2	4,863.07	1/2	5,198.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,820.38	3/4	4,181.66	3/4	4,535.22	3/4	4,869.85	3/4	5,203.14	3/4		3/4		3/4		3/4		3/4	
8	3,827.91	8	4,189.18	8	4,542.41	8	4,876.62	8	5,208.24	8		8		8		8		8	
1/4	3,835.43	1/4	4,196.70	1/4	4,549.56	1/4	4,883.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.96	1/2	4,204.22	1/2	4,556.71	1/2	4,890.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,850.49	3/4	4,211.74	3/4	4,563.86	3/4	4,896.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,858.01	9	4,219.26	9	4,571.01	9	4,903.61	9		9		9		9		9		9	
1/4	3,865.54	1/4	4,226.76	1/4	4,578.14	1/4	4,910.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,873.07	1/2	4,234.26	1/2	4,585.26	1/2	4,917.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,880.59	3/4	4,241.77	3/4	4,592.38	3/4	4,923.76	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,888.12	10	4,249.27	10	4,599.50	10	4,930.47	10		10		10		10		10		10	
1/4	3,895.65	1/4	4,256.74	1/4	4,606.59	1/4	4,937.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,903.17	1/2	4,264.21	1/2	4,613.68	1/2	4,943.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,910.70	3/4	4,271.68	3/4	4,620.77	3/4	4,950.52	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,918.23	11	4,279.15	11	4,627.86	11	4,957.20	11		11		11		11		11		11	
1/4	3,925.75	1/4	4,286.59	1/4	4,634.93	1/4	4,964.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,933.28	1/2	4,294.03	1/2	4,641.99	1/2	4,971.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,940.81	3/4	4,301.47	3/4	4,649.05	3/4	4,978.11	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	21.26	0	353.17	0	712.38	0	1,072.64	0	1,432.95	0	1,793.43	0	2,153.87	0	2,514.27	0	2,874.47	0	3,233.78
1/4	25.47	1/4	360.53	1/4	719.89	1/4	1,080.14	1/4	1,440.46	1/4	1,800.94	1/4	2,161.38	1/4	2,521.78	1/4	2,881.96	1/4	3,241.24
1/2	29.68	1/2	367.90	1/2	727.40	1/2	1,087.64	1/2	1,447.97	1/2	1,808.45	1/2	2,168.89	1/2	2,529.28	1/2	2,889.46	1/2	3,248.70
3/4	33.89	3/4	375.26	3/4	734.91	3/4	1,095.14	3/4	1,455.48	3/4	1,815.96	3/4	2,176.40	3/4	2,536.79	3/4	2,896.95	3/4	3,256.16
1	38.10	1	382.62	1	742.42	1	1,102.64	1	1,462.99	1	1,823.47	1	2,183.91	1	2,544.30	1	2,904.44	1	3,263.62
1/4	43.56	1/4	389.98	1/4	749.93	1/4	1,110.14	1/4	1,470.50	1/4	1,830.98	1/4	2,191.42	1/4	2,551.81	1/4	2,911.94	1/4	3,271.08
1/2	49.02	1/2	397.34	1/2	757.44	1/2	1,117.64	1/2	1,478.01	1/2	1,838.49	1/2	2,198.92	1/2	2,559.32	1/2	2,919.43	1/2	3,278.54
3/4	54.49	3/4	404.71	3/4	764.95	3/4	1,125.14	3/4	1,485.52	3/4	1,846.00	3/4	2,206.43	3/4	2,566.83	3/4	2,926.93	3/4	3,286.00
2	59.95	2	412.07	2	772.46	2	1,132.64	2	1,493.03	2	1,853.51	2	2,213.94	2	2,574.33	2	2,934.42	2	3,293.46
1/4	66.66	1/4	419.56	1/4	779.97	1/4	1,140.14	1/4	1,500.54	1/4	1,861.02	1/4	2,221.45	1/4	2,581.84	1/4	2,941.91	1/4	3,300.92
1/2	73.37	1/2	427.05	1/2	787.48	1/2	1,147.64	1/2	1,508.05	1/2	1,868.53	1/2	2,228.96	1/2	2,589.35	1/2	2,949.41	1/2	3,308.38
3/4	80.08	3/4	434.54	3/4	794.99	3/4	1,155.14	3/4	1,515.56	3/4	1,876.04	3/4	2,236.46	3/4	2,596.86	3/4	2,956.90	3/4	3,315.84
3	86.79	3	442.03	3	802.50	3	1,162.64	3	1,523.07	3	1,883.55	3	2,243.97	3	2,604.37	3	2,964.40	3	3,323.30
1/4	94.21	1/4	449.54	1/4	810.01	1/4	1,170.14	1/4	1,530.58	1/4	1,891.06	1/4	2,251.48	1/4	2,611.87	1/4	2,971.89	1/4	3,330.77
1/2	101.63	1/2	457.05	1/2	817.52	1/2	1,177.64	1/2	1,538.09	1/2	1,898.57	1/2	2,258.99	1/2	2,619.38	1/2	2,979.38	1/2	3,338.25
3/4	109.04	3/4	464.56	3/4	825.03	3/4	1,185.15	3/4	1,545.60	3/4	1,906.08	3/4	2,266.50	3/4	2,626.88	3/4	2,986.88	3/4	3,345.72
4	116.46	4	472.07	4	832.54	4	1,192.65	4	1,553.11	4	1,913.59	4	2,274.01	4	2,634.39	4	2,994.37	4	3,353.20
1/4	123.96	1/4	479.58	1/4	840.05	1/4	1,200.15	1/4	1,560.62	1/4	1,921.10	1/4	2,281.51	1/4	2,641.90	1/4	3,001.87	1/4	3,360.67
1/2	131.45	1/2	487.09	1/2	847.56	1/2	1,207.66	1/2	1,568.13	1/2	1,928.61	1/2	2,289.02	1/2	2,649.40	1/2	3,009.36	1/2	3,368.15
3/4	138.95	3/4	494.60	3/4	855.06	3/4	1,215.16	3/4	1,575.64	3/4	1,936.12	3/4	2,296.53	3/4	2,656.91	3/4	3,016.85	3/4	3,375.62
5	146.44	5	502.11	5	862.57	5	1,222.67	5	1,583.15	5	1,943.63	5	2,304.04	5	2,664.42	5	3,024.35	5	3,383.10
1/4	153.94	1/4	509.62	1/4	870.08	1/4	1,230.18	1/4	1,590.66	1/4	1,951.14	1/4	2,311.55	1/4	2,671.92	1/4	3,031.84	1/4	3,390.57
1/2	161.43	1/2	517.13	1/2	877.59	1/2	1,237.69	1/2	1,598.17	1/2	1,958.65	1/2	2,319.06	1/2	2,679.43	1/2	3,039.34	1/2	3,398.05
3/4	168.93	3/4	524.64	3/4	885.10	3/4	1,245.20	3/4	1,605.68	3/4	1,966.16	3/4	2,326.56	3/4	2,686.94	3/4	3,046.83	3/4	3,405.52
6	176.42	6	532.15	6	892.61	6	1,252.71	6	1,613.19	6	1,973.67	6	2,334.07	6	2,694.45	6	3,054.32	6	3,413.00
1/4	183.80	1/4	539.66	1/4	900.12	1/4	1,260.22	1/4	1,620.70	1/4	1,981.18	1/4	2,341.58	1/4	2,701.95	1/4	3,061.82	1/4	3,420.47
1/2	191.18	1/2	547.17	1/2	907.62	1/2	1,267.73	1/2	1,628.21	1/2	1,988.69	1/2	2,349.09	1/2	2,709.46	1/2	3,069.31	1/2	3,427.95
3/4	198.56	3/4	554.68	3/4	915.12	3/4	1,275.24	3/4	1,635.72	3/4	1,996.20	3/4	2,356.60	3/4	2,716.97	3/4	3,076.81	3/4	3,435.42
7	205.93	7	562.19	7	922.63	7	1,282.75	7	1,643.23	7	2,003.71	7	2,364.10	7	2,724.47	7	3,084.30	7	3,442.90
1/4	213.30	1/4	569.70	1/4	930.13	1/4	1,290.26	1/4	1,650.74	1/4	2,011.22	1/4	2,371.61	1/4	2,731.98	1/4	3,091.79	1/4	3,450.38
1/2	220.66	1/2	577.21	1/2	937.63	1/2	1,297.77	1/2	1,658.25	1/2	2,018.73	1/2	2,379.12	1/2	2,739.49	1/2	3,099.29	1/2	3,457.85
3/4	228.02	3/4	584.72	3/4	945.13	3/4	1,305.28	3/4	1,665.76	3/4	2,026.24	3/4	2,386.63	3/4	2,746.99	3/4	3,106.78	3/4	3,465.33
8	235.38	8	592.23	8	952.63	8	1,312.79	8	1,673.27	8	2,033.75	8	2,394.14	8	2,754.50	8	3,114.28	8	3,472.80
1/4	242.74	1/4	599.74	1/4	960.13	1/4	1,320.30	1/4	1,680.78	1/4	2,041.26	1/4	2,401.65	1/4	2,762.01	1/4	3,121.77	1/4	3,480.28
1/2	250.11	1/2	607.24	1/2	967.63	1/2	1,327.81	1/2	1,688.29	1/2	2,048.76	1/2	2,409.15	1/2	2,769.52	1/2	3,129.26	1/2	3,487.75
3/4	257.47	3/4	614.75	3/4	975.13	3/4	1,335.32	3/4	1,695.80	3/4	2,056.27	3/4	2,416.66	3/4	2,777.02	3/4	3,136.76	3/4	3,495.23
9	264.83	9	622.26	9	982.63	9	1,342.83	9	1,703.31	9	2,063.78	9	2,424.17	9	2,784.53	9	3,144.25	9	3,502.70
1/4	272.19	1/4	629.77	1/4	990.13	1/4	1,350.34	1/4	1,710.82	1/4	2,071.28	1/4	2,431.68	1/4	2,792.03	1/4	3,151.72	1/4	3,507.18
1/2	279.55	1/2	637.28	1/2	997.63	1/2	1,357.85	1/2	1,718.33	1/2	2,078.79	1/2	2,439.19	1/2	2,799.52	1/2	3,159.18	1/2	3,511.65
3/4	286.92	3/4	644.79	3/4	1,005.13	3/4	1,365.36	3/4	1,725.84	3/4	2,086.30	3/4	2,446.69	3/4	2,807.02	3/4	3,166.64	3/4	3,516.12
10	294.28	10	652.30	10	1,012.63	10	1,372.87	10	1,732.35	10	2,093.81	10	2,454.20	10	2,814.52	10	3,174.11	10	3,520.59
1/4	301.64	1/4	659.81	1/4	1,020.13	1/4	1,380.38	1/4	1,740.86	1/4	2,101.32	1/4	2,461.71	1/4	2,822.01	1/4	3,181.57	1/4	3,524.63
1/2	309.00	1/2	667.32	1/2	1,027.63	1/2	1,387.89	1/2	1,748.37	1/2	2,108.83	1/2	2,469.22	1/2	2,829.50	1/2	3,189.03	1/2	3,528.68
3/4	316.36	3/4	674.83	3/4	1,035.14	3/4	1,395.40	3/4	1,755.88	3/4	2,116.33	3/4	2,476.73	3/4	2,837.00	3/4	3,196.49	3/4	3,532.72
11	323.72	11	682.34	11	1,042.64	11	1,402.91	11	1,763.39	11	2,123.84	11	2,484.24	11	2,844.49	11	3,203.95	11	3,536.76
1/4	331.09	1/4	689.85	1/4	1,050.14	1/4	1,410.42	1/4	1,770.90	1/4	2,131.35	1/4	2,491.74	1/4	2,851.99	1/4	3,211.41	1/4	3,540.81
1/2	338.45	1/2	697.36	1/2	1,057.64	1/2	1,417.93	1/2	1,778.41	1/2	2,138.86	1/2	2,499.25	1/2	2,859.48	1/2	3,218.87	1/2	3,544.85
3/4	345.81	3/4	704.87	3/4	1,065.14	3/4	1,425.44	3/4	1,785.92	3/4	2,146.37	3/4	2,506.76	3/4	2,866.97	3/4	3,226.32	3/4	3,548.89

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" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,552.94	0	3,747.00	0	3,940.38	0	4,120.42	0	4,282.97	0		0		0		0		0	
1/4	3,556.98	1/4	3,751.05	1/4	3,944.31	1/4	4,123.96	1/4	4,286.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,561.02	1/2	3,755.09	1/2	3,948.23	1/2	4,127.51	1/2	4,290.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.07	3/4	3,759.13	3/4	3,952.15	3/4	4,131.06	3/4	4,294.78	3/4		3/4		3/4		3/4		3/4	
1	3,569.11	1	3,763.18	1	3,956.08	1	4,134.60	1	4,298.72	1		1		1		1		1	
1/4	3,573.15	1/4	3,767.22	1/4	3,959.97	1/4	4,138.10	1/4	4,302.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,577.19	1/2	3,771.26	1/2	3,963.86	1/2	4,141.60	1/2	4,306.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,581.24	3/4	3,775.31	3/4	3,967.76	3/4	4,145.10	3/4	4,310.69	3/4		3/4		3/4		3/4		3/4	
2	3,585.28	2	3,779.35	2	3,971.65	2	4,148.60	2	4,314.68	2		2		2		2		2	
1/4	3,589.32	1/4	3,783.39	1/4	3,975.52	1/4	4,152.06	1/4	4,318.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,593.37	1/2	3,787.44	1/2	3,979.38	1/2	4,155.53	1/2	4,322.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,597.41	3/4	3,791.48	3/4	3,983.24	3/4	4,159.00	3/4	4,326.65	3/4		3/4		3/4		3/4		3/4	
3	3,601.45	3	3,795.52	3	3,987.11	3	4,162.46	3	4,330.64	3		3		3		3		3	
1/4	3,605.50	1/4	3,799.56	1/4	3,990.94	1/4	4,165.90	1/4	4,334.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.54	1/2	3,803.61	1/2	3,994.77	1/2	4,169.34	1/2	4,338.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.58	3/4	3,807.65	3/4	3,998.60	3/4	4,172.78	3/4	4,342.61	3/4		3/4		3/4		3/4		3/4	
4	3,617.63	4	3,811.69	4	4,002.43	4	4,176.21	4	4,346.60	4		4		4		4		4	
1/4	3,621.67	1/4	3,815.74	1/4	4,006.22	1/4	4,179.62	1/4	4,350.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.71	1/2	3,819.78	1/2	4,010.02	1/2	4,183.02	1/2	4,354.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.75	3/4	3,823.82	3/4	4,013.82	3/4	4,186.42	3/4	4,358.57	3/4		3/4		3/4		3/4		3/4	
5	3,633.80	5	3,827.87	5	4,017.61	5	4,189.83	5	4,362.56	5		5		5		5		5	
1/4	3,637.84	1/4	3,831.91	1/4	4,021.38	1/4	4,193.20	1/4	4,366.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.88	1/2	3,835.95	1/2	4,025.15	1/2	4,196.57	1/2	4,370.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.93	3/4	3,840.00	3/4	4,028.91	3/4	4,199.94	3/4	4,374.13	3/4		3/4		3/4		3/4		3/4	
6	3,649.97	6	3,844.04	6	4,032.68	6	4,203.31	6	4,377.98	6		6		6		6		6	
1/4	3,654.01	1/4	3,848.08	1/4	4,036.41	1/4	4,206.65	1/4	4,380.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.06	1/2	3,852.13	1/2	4,040.15	1/2	4,209.99	1/2	4,383.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,662.10	3/4	3,856.17	3/4	4,043.89	3/4	4,213.33	3/4	4,386.61	3/4		3/4		3/4		3/4		3/4	
7	3,666.14	7	3,860.21	7	4,047.62	7	4,216.67	7	4,389.49	7		7		7		7		7	
1/4	3,670.19	1/4	3,864.25	1/4	4,051.33	1/4	4,219.98	1/4	4,391.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,674.23	1/2	3,868.30	1/2	4,055.03	1/2	4,223.29	1/2	4,392.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,678.27	3/4	3,872.34	3/4	4,058.73	3/4	4,226.60	3/4	4,394.46	3/4		3/4		3/4		3/4		3/4	
8	3,682.32	8	3,876.38	8	4,062.44	8	4,229.91	8	4,396.12	8		8		8		8		8	
1/4	3,686.36	1/4	3,880.42	1/4	4,066.10	1/4	4,233.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,690.40	1/2	3,884.46	1/2	4,069.77	1/2	4,236.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,694.44	3/4	3,888.50	3/4	4,073.44	3/4	4,239.74	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,698.49	9	3,892.54	9	4,077.11	9	4,243.02	9		9		9		9		9		9	
1/4	3,702.53	1/4	3,896.56	1/4	4,080.75	1/4	4,246.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,706.57	1/2	3,900.58	1/2	4,084.39	1/2	4,249.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,710.62	3/4	3,904.60	3/4	4,088.03	3/4	4,252.76	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,714.66	10	3,908.62	10	4,091.67	10	4,256.01	10		10		10		10		10		10	
1/4	3,718.70	1/4	3,912.61	1/4	4,095.28	1/4	4,259.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,722.75	1/2	3,916.59	1/2	4,098.88	1/2	4,262.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,726.79	3/4	3,920.58	3/4	4,102.49	3/4	4,265.65	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,730.83	11	3,924.57	11	4,106.10	11	4,268.86	11		11		11		11		11		11	
1/4	3,734.88	1/4	3,928.52	1/4	4,109.68	1/4	4,272.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,738.92	1/2	3,932.48	1/2	4,113.26	1/2	4,275.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.96	3/4	3,936.43	3/4	4,116.84	3/4	4,279.44	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.23	0	352.06	0	710.09	0	1,057.85	0	1,410.56	0	1,769.24	0	2,128.40	0	2,487.52	0	2,844.73	0	3,202.59
1/4	25.43	1/4	359.39	1/4	717.58	1/4	1,065.00	1/4	1,417.99	1/4	1,776.72	1/4	2,135.89	1/4	2,495.00	1/4	2,852.20	1/4	3,210.02
1/2	29.63	1/2	366.73	1/2	725.06	1/2	1,072.15	1/2	1,425.41	1/2	1,784.20	1/2	2,143.37	1/2	2,502.48	1/2	2,859.67	1/2	3,217.45
3/4	33.84	3/4	374.07	3/4	732.55	3/4	1,079.30	3/4	1,432.83	3/4	1,791.69	3/4	2,150.85	3/4	2,509.96	3/4	2,867.13	3/4	3,224.89
1	38.04	1	381.41	1	740.04	1	1,086.44	1	1,440.25	1	1,799.17	1	2,158.33	1	2,517.44	1	2,874.60	1	3,232.32
1/4	43.48	1/4	388.74	1/4	747.52	1/4	1,093.59	1/4	1,447.67	1/4	1,806.65	1/4	2,165.81	1/4	2,524.92	1/4	2,882.06	1/4	3,239.75
1/2	48.92	1/2	396.08	1/2	755.01	1/2	1,100.74	1/2	1,455.09	1/2	1,814.14	1/2	2,173.29	1/2	2,532.41	1/2	2,889.52	1/2	3,247.19
3/4	54.36	3/4	403.42	3/4	762.49	3/4	1,107.89	3/4	1,462.51	3/4	1,821.62	3/4	2,180.77	3/4	2,539.89	3/4	2,896.98	3/4	3,254.62
2	59.81	2	410.76	2	769.98	2	1,115.04	2	1,469.94	2	1,829.10	2	2,188.26	2	2,547.37	2	2,904.44	2	3,262.05
1/4	66.49	1/4	418.22	1/4	777.46	1/4	1,122.18	1/4	1,477.41	1/4	1,836.59	1/4	2,195.74	1/4	2,554.85	1/4	2,911.90	1/4	3,269.49
1/2	73.17	1/2	425.69	1/2	784.95	1/2	1,129.33	1/2	1,484.89	1/2	1,844.07	1/2	2,203.22	1/2	2,562.33	1/2	2,919.36	1/2	3,276.92
3/4	79.85	3/4	433.16	3/4	792.43	3/4	1,136.48	3/4	1,492.36	3/4	1,851.55	3/4	2,210.70	3/4	2,569.81	3/4	2,926.82	3/4	3,284.35
3	86.53	3	440.62	3	799.92	3	1,143.63	3	1,499.84	3	1,859.04	3	2,218.18	3	2,577.29	3	2,934.28	3	3,291.79
1/4	93.92	1/4	448.11	1/4	807.16	1/4	1,151.03	1/4	1,507.32	1/4	1,866.52	1/4	2,225.66	1/4	2,584.77	1/4	2,941.74	1/4	3,299.23
1/2	101.31	1/2	455.59	1/2	814.39	1/2	1,158.42	1/2	1,514.81	1/2	1,874.00	1/2	2,233.15	1/2	2,592.25	1/2	2,949.20	1/2	3,306.68
3/4	108.70	3/4	463.08	3/4	821.63	3/4	1,165.82	3/4	1,522.29	3/4	1,881.49	3/4	2,240.63	3/4	2,599.73	3/4	2,956.66	3/4	3,314.13
4	116.09	4	470.56	4	828.87	4	1,173.21	4	1,529.77	4	1,888.97	4	2,248.11	4	2,607.21	4	2,964.12	4	3,321.57
1/4	123.57	1/4	478.05	1/4	836.04	1/4	1,180.62	1/4	1,537.26	1/4	1,896.45	1/4	2,255.59	1/4	2,614.60	1/4	2,971.58	1/4	3,329.02
1/2	131.05	1/2	485.54	1/2	843.22	1/2	1,188.02	1/2	1,544.74	1/2	1,903.94	1/2	2,263.07	1/2	2,621.98	1/2	2,979.04	1/2	3,336.47
3/4	138.52	3/4	493.02	3/4	850.40	3/4	1,195.43	3/4	1,552.22	3/4	1,911.42	3/4	2,270.55	3/4	2,629.37	3/4	2,986.50	3/4	3,343.92
5	146.00	5	500.51	5	857.58	5	1,202.84	5	1,559.71	5	1,918.90	5	2,278.03	5	2,636.76	5	2,993.96	5	3,351.37
1/4	153.47	1/4	507.99	1/4	864.75	1/4	1,210.24	1/4	1,567.19	1/4	1,926.39	1/4	2,285.52	1/4	2,644.13	1/4	3,001.42	1/4	3,358.82
1/2	160.94	1/2	515.48	1/2	871.92	1/2	1,217.65	1/2	1,574.67	1/2	1,933.87	1/2	2,293.00	1/2	2,651.51	1/2	3,008.88	1/2	3,366.27
3/4	168.41	3/4	522.96	3/4	879.10	3/4	1,225.05	3/4	1,582.16	3/4	1,941.35	3/4	2,300.48	3/4	2,658.88	3/4	3,016.34	3/4	3,373.71
6	175.88	6	530.45	6	886.27	6	1,232.46	6	1,589.64	6	1,948.84	6	2,307.96	6	2,666.25	6	3,023.80	6	3,381.16
1/4	183.24	1/4	537.93	1/4	893.42	1/4	1,239.88	1/4	1,597.12	1/4	1,956.32	1/4	2,315.44	1/4	2,673.63	1/4	3,031.26	1/4	3,388.61
1/2	190.59	1/2	545.42	1/2	900.58	1/2	1,247.29	1/2	1,604.61	1/2	1,963.80	1/2	2,322.92	1/2	2,681.00	1/2	3,038.72	1/2	3,396.06
3/4	197.95	3/4	552.90	3/4	907.73	3/4	1,254.71	3/4	1,612.09	3/4	1,971.29	3/4	2,330.40	3/4	2,688.37	3/4	3,046.18	3/4	3,403.51
7	205.30	7	560.39	7	914.89	7	1,262.13	7	1,619.57	7	1,978.77	7	2,337.89	7	2,695.75	7	3,053.64	7	3,410.96
1/4	212.64	1/4	567.87	1/4	922.03	1/4	1,269.56	1/4	1,627.06	1/4	1,986.25	1/4	2,345.37	1/4	2,703.12	1/4	3,061.11	1/4	3,418.41
1/2	219.98	1/2	575.36	1/2	929.18	1/2	1,276.98	1/2	1,634.54	1/2	1,993.74	1/2	2,352.85	1/2	2,710.50	1/2	3,068.57	1/2	3,425.86
3/4	227.31	3/4	582.84	3/4	936.33	3/4	1,284.40	3/4	1,642.02	3/4	2,001.22	3/4	2,360.33	3/4	2,717.87	3/4	3,076.04	3/4	3,433.30
8	234.65	8	590.33	8	943.48	8	1,291.82	8	1,649.51	8	2,008.70	8	2,367.81	8	2,725.24	8	3,083.50	8	3,440.75
1/4	241.99	1/4	597.81	1/4	950.63	1/4	1,299.24	1/4	1,656.99	1/4	2,016.18	1/4	2,375.29	1/4	2,732.71	1/4	3,090.97	1/4	3,448.20
1/2	249.33	1/2	605.30	1/2	957.78	1/2	1,306.66	1/2	1,664.47	1/2	2,023.66	1/2	2,382.78	1/2	2,740.18	1/2	3,098.44	1/2	3,455.65
3/4	256.66	3/4	612.79	3/4	964.92	3/4	1,314.08	3/4	1,671.95	3/4	2,031.15	3/4	2,390.26	3/4	2,747.65	3/4	3,105.91	3/4	3,463.10
9	264.00	9	620.27	9	972.07	9	1,321.51	9	1,679.44	9	2,038.63	9	2,397.74	9	2,755.12	9	3,113.37	9	3,470.55
1/4	271.34	1/4	627.76	1/4	979.22	1/4	1,328.93	1/4	1,686.92	1/4	2,046.11	1/4	2,405.22	1/4	2,762.59	1/4	3,120.81	1/4	3,475.00
1/2	278.68	1/2	635.24	1/2	986.37	1/2	1,336.35	1/2	1,694.40	1/2	2,053.59	1/2	2,412.70	1/2	2,770.05	1/2	3,128.25	1/2	3,479.45
3/4	286.02	3/4	642.73	3/4	993.52	3/4	1,343.77	3/4	1,701.89	3/4	2,061.07	3/4	2,420.18	3/4	2,777.52	3/4	3,135.69	3/4	3,483.90
10	293.35	10	650.21	10	1,000.67	10	1,351.19	10	1,709.37	10	2,068.55	10	2,427.66	10	2,784.99	10	3,143.12	10	3,488.35
1/4	300.69	1/4	657.70	1/4	1,007.81	1/4	1,358.61	1/4	1,716.85	1/4	2,076.03	1/4	2,435.15	1/4	2,792.46	1/4	3,150.56	1/4	3,492.37
1/2	308.03	1/2	665.18	1/2	1,014.96	1/2	1,366.03	1/2	1,724.34	1/2	2,083.52	1/2	2,442.63	1/2	2,799.93	1/2	3,157.99	1/2	3,496.39
3/4	315.37	3/4	672.67	3/4	1,022.11	3/4	1,373.46	3/4	1,731.82	3/4	2,091.00	3/4	2,450.11	3/4	2,807.39	3/4	3,165.42	3/4	3,500.41
11	322.70	11	680.15	11	1,029.26	11	1,380.88	11	1,739.30	11	2,098.48	11	2,457.59	11	2,814.86	11	3,172.86	11	3,504.44
1/4	330.04	1/4	687.64	1/4	1,036.41	1/4	1,388.30	1/4	1,746.79	1/4	2,105.96	1/4	2,465.07	1/4	2,822.33	1/4	3,180.29	1/4	3,508.46
1/2	337.38	1/2	695.12	1/2	1,043.55	1/2	1,395.72	1/2	1,754.27	1/2	2,113.44	1/2	2,472.55	1/2	2,829.80	1/2	3,187.72	1/2	3,512.48
3/4	344.72	3/4	702.61	3/4	1,050.70	3/4	1,403.14	3/4	1,761.75	3/4	2,120.92	3/4	2,480.03	3/4	2,837.26	3/4	3,195.16	3/4	3,516.50

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" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,520.52	0	3,713.57	0	3,905.93	0	4,084.97	0	4,246.55	0		0		0		0		0	
1/4	3,524.54	1/4	3,717.60	1/4	3,909.83	1/4	4,088.49	1/4	4,250.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,528.57	1/2	3,721.62	1/2	3,913.74	1/2	4,092.02	1/2	4,254.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,532.59	3/4	3,725.64	3/4	3,917.64	3/4	4,095.54	3/4	4,258.30	3/4		3/4		3/4		3/4		3/4	
1	3,536.61	1	3,729.66	1	3,921.54	1	4,099.07	1	4,262.21	1		1		1		1		1	
1/4	3,540.63	1/4	3,733.68	1/4	3,925.41	1/4	4,102.55	1/4	4,266.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,544.65	1/2	3,737.71	1/2	3,929.29	1/2	4,106.03	1/2	4,270.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,548.68	3/4	3,741.73	3/4	3,933.16	3/4	4,109.50	3/4	4,274.12	3/4		3/4		3/4		3/4		3/4	
2	3,552.70	2	3,745.75	2	3,937.03	2	4,112.98	2	4,278.09	2		2		2		2		2	
1/4	3,556.72	1/4	3,749.77	1/4	3,940.87	1/4	4,116.43	1/4	4,282.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.74	1/2	3,753.79	1/2	3,944.72	1/2	4,119.88	1/2	4,286.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,564.76	3/4	3,757.81	3/4	3,948.56	3/4	4,123.32	3/4	4,290.00	3/4		3/4		3/4		3/4		3/4	
3	3,568.79	3	3,761.84	3	3,952.40	3	4,126.77	3	4,293.97	3		3		3		3		3	
1/4	3,572.81	1/4	3,765.86	1/4	3,956.21	1/4	4,130.19	1/4	4,297.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,576.83	1/2	3,769.88	1/2	3,960.02	1/2	4,133.60	1/2	4,301.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,580.85	3/4	3,773.90	3/4	3,963.83	3/4	4,137.02	3/4	4,305.87	3/4		3/4		3/4		3/4		3/4	
4	3,584.87	4	3,777.92	4	3,967.64	4	4,140.44	4	4,309.84	4		4		4		4		4	
1/4	3,588.89	1/4	3,781.95	1/4	3,971.42	1/4	4,143.82	1/4	4,313.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.92	1/2	3,785.97	1/2	3,975.19	1/2	4,147.20	1/2	4,317.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,596.94	3/4	3,789.99	3/4	3,978.97	3/4	4,150.59	3/4	4,321.75	3/4		3/4		3/4		3/4		3/4	
5	3,600.96	5	3,794.01	5	3,982.74	5	4,153.97	5	4,325.72	5		5		5		5		5	
1/4	3,604.98	1/4	3,798.03	1/4	3,986.49	1/4	4,157.32	1/4	4,329.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.00	1/2	3,802.06	1/2	3,990.23	1/2	4,160.67	1/2	4,333.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.03	3/4	3,806.08	3/4	3,993.98	3/4	4,164.02	3/4	4,337.22	3/4		3/4		3/4		3/4		3/4	
6	3,617.05	6	3,810.10	6	3,997.72	6	4,167.37	6	4,341.05	6		6		6		6		6	
1/4	3,621.07	1/4	3,814.12	1/4	4,001.44	1/4	4,170.69	1/4	4,343.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,625.09	1/2	3,818.14	1/2	4,005.15	1/2	4,174.01	1/2	4,346.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.11	3/4	3,822.17	3/4	4,008.87	3/4	4,177.33	3/4	4,349.62	3/4		3/4		3/4		3/4		3/4	
7	3,633.14	7	3,826.19	7	4,012.59	7	4,180.65	7	4,352.48	7		7		7		7		7	
1/4	3,637.16	1/4	3,830.21	1/4	4,016.27	1/4	4,183.94	1/4	4,354.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.18	1/2	3,834.23	1/2	4,019.95	1/2	4,187.23	1/2	4,355.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.20	3/4	3,838.25	3/4	4,023.63	3/4	4,190.52	3/4	4,357.40	3/4		3/4		3/4		3/4		3/4	
8	3,649.22	8	3,842.27	8	4,027.31	8	4,193.81	8	4,359.04	8		8		8		8		8	
1/4	3,653.25	1/4	3,846.29	1/4	4,030.96	1/4	4,197.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,657.27	1/2	3,850.31	1/2	4,034.61	1/2	4,200.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,661.29	3/4	3,854.32	3/4	4,038.26	3/4	4,203.59	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,665.31	9	3,858.34	9	4,041.91	9	4,206.85	9		9		9		9		9		9	
1/4	3,669.33	1/4	3,862.34	1/4	4,045.53	1/4	4,210.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,673.35	1/2	3,866.34	1/2	4,049.15	1/2	4,213.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,677.38	3/4	3,870.34	3/4	4,052.76	3/4	4,216.52	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,681.40	10	3,874.33	10	4,056.38	10	4,219.75	10		10		10		10		10		10	
1/4	3,685.42	1/4	3,878.30	1/4	4,059.97	1/4	4,222.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.44	1/2	3,882.27	1/2	4,063.56	1/2	4,226.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,693.46	3/4	3,886.23	3/4	4,067.15	3/4	4,229.33	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,697.49	11	3,890.20	11	4,070.73	11	4,232.52	11		11		11		11		11		11	
1/4	3,701.51	1/4	3,894.13	1/4	4,074.29	1/4	4,236.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,705.53	1/2	3,898.07	1/2	4,077.85	1/2	4,239.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.55	3/4	3,902.00	3/4	4,081.41	3/4	4,243.04	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 284'-06"

March 18, 2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	0	4,933.58	0	4,598.42	0	4,244.06	0	3,880.89	0	3,517.71	0	3,154.54	0	2,791.36	0	2,428.11
1/4	1/4	1/4	1/4	1/4	4,926.80	1/4	4,591.23	1/4	4,236.50	1/4	3,873.33	1/4	3,510.15	1/4	3,146.97	1/4	2,783.79	1/4	2,420.54
1/2	1/2	1/2	1/2	1/2	5,253.39	1/2	4,920.01	1/2	4,584.04	1/2	4,228.94	1/2	3,865.76	1/2	3,502.58	1/2	3,139.40	1/2	2,776.23
3/4	3/4	3/4	3/4	3/4	5,248.26	3/4	4,913.20	3/4	4,576.81	3/4	4,221.37	3/4	3,858.19	3/4	3,495.02	3/4	3,131.84	3/4	2,768.66
1	1	1	1	1	5,243.14	1	4,906.39	1	4,569.59	1	4,213.80	1	3,850.63	1	3,487.45	1	3,124.27	1	2,761.09
1/4	1/4	1/4	1/4	1/4	5,238.01	1/4	4,899.58	1/4	4,562.37	1/4	4,206.24	1/4	3,843.06	1/4	3,479.88	1/4	3,116.71	1/4	2,753.53
1/2	1/2	1/2	1/2	1/2	5,232.88	1/2	4,892.76	1/2	4,555.14	1/2	4,198.67	1/2	3,835.49	1/2	3,472.32	1/2	3,109.14	1/2	2,745.96
3/4	3/4	3/4	3/4	3/4	5,226.54	3/4	4,885.92	3/4	4,547.89	3/4	4,191.11	3/4	3,827.93	3/4	3,464.75	3/4	3,101.57	3/4	2,738.40
2	2	2	2	2	5,220.19	2	4,879.08	2	4,540.63	2	4,183.54	2	3,820.36	2	3,457.18	2	3,094.01	2	2,730.83
1/4	1/4	1/4	1/4	1/4	5,213.85	1/4	4,872.24	1/4	4,533.37	1/4	4,175.97	1/4	3,812.80	1/4	3,449.62	1/4	3,086.44	1/4	2,723.26
1/2	1/2	1/2	1/2	1/2	5,207.51	1/2	4,865.39	1/2	4,526.12	1/2	4,168.41	1/2	3,805.23	1/2	3,442.05	1/2	3,078.87	1/2	2,715.70
3/4	3/4	3/4	3/4	3/4	5,200.18	3/4	4,858.52	3/4	4,518.83	3/4	4,160.84	3/4	3,797.66	3/4	3,434.49	3/4	3,071.31	3/4	2,708.13
3	3	3	3	3	5,192.85	3	4,851.65	3	4,511.54	3	4,153.27	3	3,790.10	3	3,426.92	3	3,063.74	3	2,700.56
1/4	1/4	1/4	1/4	1/4	5,185.52	1/4	4,844.77	1/4	4,504.25	1/4	4,145.71	1/4	3,782.53	1/4	3,419.35	1/4	3,056.18	1/4	2,692.99
1/2	1/2	1/2	1/2	1/2	5,178.19	1/2	4,837.90	1/2	4,496.97	1/2	4,138.14	1/2	3,774.96	1/2	3,411.79	1/2	3,048.61	1/2	2,685.43
3/4	3/4	3/4	3/4	3/4	5,170.72	3/4	4,830.99	3/4	4,489.65	3/4	4,130.58	3/4	3,767.40	3/4	3,404.22	3/4	3,041.04	3/4	2,677.87
4	4	4	4	4	5,163.25	4	4,824.08	4	4,482.33	4	4,123.01	4	3,759.83	4	3,396.65	4	3,033.48	4	2,670.30
1/4	1/4	1/4	1/4	1/4	5,155.78	1/4	4,817.18	1/4	4,475.01	1/4	4,115.44	1/4	3,752.27	1/4	3,389.09	1/4	3,025.91	1/4	2,662.73
1/2	1/2	1/2	1/2	1/2	5,148.31	1/2	4,810.27	1/2	4,467.70	1/2	4,107.88	1/2	3,744.70	1/2	3,381.52	1/2	3,018.34	1/2	2,655.17
3/4	3/4	3/4	3/4	3/4	5,140.85	3/4	4,803.33	3/4	4,460.34	3/4	4,100.31	3/4	3,737.13	3/4	3,373.96	3/4	3,010.78	3/4	2,647.60
5	5	5	5	5	5,133.38	5	4,796.39	5	4,452.99	5	4,092.75	5	3,729.57	5	3,366.39	5	3,003.21	5	2,640.03
1/4	1/4	1/4	1/4	1/4	5,125.91	1/4	4,789.45	1/4	4,445.64	1/4	4,085.18	1/4	3,722.00	1/4	3,358.82	1/4	2,995.65	1/4	2,632.47
1/2	1/2	1/2	1/2	1/2	5,118.44	1/2	4,782.50	1/2	4,438.29	1/2	4,077.61	1/2	3,714.44	1/2	3,351.26	1/2	2,988.08	1/2	2,624.90
3/4	3/4	3/4	3/4	3/4	5,110.97	3/4	4,775.53	3/4	4,430.90	3/4	4,070.05	3/4	3,706.87	3/4	3,343.69	3/4	2,980.51	3/4	2,617.33
6	6	6	6	6	5,103.51	6	4,768.56	6	4,423.52	6	4,062.48	6	3,699.30	6	3,336.13	6	2,972.95	6	2,609.76
1/4	1/4	1/4	1/4	1/4	5,096.04	1/4	4,761.59	1/4	4,416.13	1/4	4,054.91	1/4	3,691.74	1/4	3,328.56	1/4	2,965.38	1/4	2,602.19
1/2	1/2	1/2	1/2	1/2	5,088.57	1/2	4,754.62	1/2	4,408.75	1/2	4,047.35	1/2	3,684.17	1/2	3,320.99	1/2	2,957.82	1/2	2,594.63
3/4	3/4	3/4	3/4	3/4	5,081.10	3/4	4,747.61	3/4	4,401.33	3/4	4,039.78	3/4	3,676.60	3/4	3,313.43	3/4	2,950.25	3/4	2,587.06
7	7	7	7	7	5,073.64	7	4,740.61	7	4,393.92	7	4,032.22	7	3,669.04	7	3,305.86	7	2,942.68	7	2,579.49
1/4	1/4	1/4	1/4	1/4	5,066.17	1/4	4,733.60	1/4	4,386.50	1/4	4,024.65	1/4	3,661.47	1/4	3,298.29	1/4	2,935.12	1/4	2,571.92
1/2	1/2	1/2	1/2	1/2	5,058.70	1/2	4,726.60	1/2	4,379.09	1/2	4,017.08	1/2	3,653.91	1/2	3,290.73	1/2	2,927.55	1/2	2,564.35
3/4	3/4	3/4	3/4	3/4	5,051.29	3/4	4,719.53	3/4	4,371.64	3/4	4,009.52	3/4	3,646.34	3/4	3,283.16	3/4	2,919.98	3/4	2,556.78
8	8	8	8	8	5,043.87	8	4,712.47	8	4,364.19	8	4,001.95	8	3,638.77	8	3,275.60	8	2,912.42	8	2,549.21
1/4	1/4	1/4	1/4	1/4	5,036.45	1/4	4,705.40	1/4	4,356.75	1/4	3,994.38	1/4	3,631.21	1/4	3,268.03	1/4	2,904.85	1/4	2,541.64
1/2	1/2	1/2	1/2	1/2	5,029.04	1/2	4,698.34	1/2	4,349.30	1/2	3,986.82	1/2	3,623.64	1/2	3,260.46	1/2	2,897.29	1/2	2,534.07
3/4	3/4	3/4	3/4	3/4	5,022.03	3/4	4,691.24	3/4	4,341.83	3/4	3,979.25	3/4	3,616.07	3/4	3,252.90	3/4	2,889.72	3/4	2,526.50
9	9	9	9	9	5,015.03	9	4,684.14	9	4,334.35	9	3,971.69	9	3,608.51	9	3,245.33	9	2,882.15	9	2,518.94
1/4	1/4	1/4	1/4	1/4	5,008.02	1/4	4,677.04	1/4	4,326.87	1/4	3,964.12	1/4	3,600.94	1/4	3,237.76	1/4	2,874.59	1/4	2,511.37
1/2	1/2	1/2	1/2	1/2	5,001.02	1/2	4,669.94	1/2	4,319.40	1/2	3,956.55	1/2	3,593.38	1/2	3,230.20	1/2	2,867.02	1/2	2,503.80
3/4	3/4	3/4	3/4	3/4	4,994.30	3/4	4,662.82	3/4	4,311.89	3/4	3,948.99	3/4	3,585.81	3/4	3,222.63	3/4	2,859.45	3/4	2,496.23
10	10	10	10	10	4,987.58	10	4,655.69	10	4,304.38	10	3,941.42	10	3,578.24	10	3,215.07	10	2,851.89	10	2,488.66
1/4	1/4	1/4	1/4	1/4	4,980.87	1/4	4,648.56	1/4	4,296.87	1/4	3,933.85	1/4	3,570.68	1/4	3,207.50	1/4	2,844.32	1/4	2,481.09
1/2	1/2	1/2	1/2	1/2	4,974.15	1/2	4,641.43	1/2	4,289.36	1/2	3,926.29	1/2	3,563.11	1/2	3,199.93	1/2	2,836.76	1/2	2,473.52
3/4	3/4	3/4	3/4	3/4	4,967.40	3/4	4,634.27	3/4	4,281.81	3/4	3,918.72	3/4	3,555.54	3/4	3,192.37	3/4	2,829.19	3/4	2,465.95
11	11	11	11	11	4,960.65	11	4,627.11	11	4,274.27	11	3,911.16	11	3,547.98	11	3,184.80	11	2,821.62	11	2,458.38
1/4	1/4	1/4	1/4	1/4	4,953.90	1/4	4,619.95	1/4	4,266.73	1/4	3,903.59	1/4	3,540.41	1/4	3,177.23	1/4	2,814.06	1/4	2,450.81
1/2	1/2	1/2	1/2	1/2	4,947.14	1/2	4,612.80	1/2	4,259.19	1/2	3,896.02	1/2	3,532.85	1/2	3,169.67	1/2	2,806.49	1/2	2,443.25
3/4	3/4	3/4	3/4	3/4	4,940.36	3/4	4,605.61	3/4	4,251.62	3/4	3,888.46	3/4	3,525.28	3/4	3,162.10	3/4	2,798.92	3/4	2,435.68

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,064.80	0	1,701.48	0	1,338.17	0	975.28	0	612.05	0	252.08	0		0		0		0	
1/4	2,057.23	1/4	1,693.91	1/4	1,330.60	1/4	967.73	1/4	604.48	1/4	244.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,049.66	1/2	1,686.35	1/2	1,323.03	1/2	960.17	1/2	596.91	1/2	237.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,042.09	3/4	1,678.78	3/4	1,315.46	3/4	952.61	3/4	589.35	3/4	229.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,034.52	1	1,671.21	1	1,307.90	1	945.05	1	581.78	1	222.40	1	1	1	1	1	1	1	1
1/4	2,026.95	1/4	1,663.64	1/4	1,300.33	1/4	937.50	1/4	574.21	1/4	214.98	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,019.38	1/2	1,656.07	1/2	1,292.76	1/2	929.94	1/2	566.64	1/2	207.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,011.81	3/4	1,648.50	3/4	1,285.19	3/4	922.37	3/4	559.07	3/4	200.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,004.24	2	1,640.93	2	1,277.62	2	914.80	2	551.50	2	192.68	2	2	2	2	2	2	2	2
1/4	1,996.67	1/4	1,633.36	1/4	1,270.05	1/4	907.23	1/4	543.93	1/4	185.24	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,989.11	1/2	1,625.79	1/2	1,262.48	1/2	899.66	1/2	536.36	1/2	177.81	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,981.54	3/4	1,618.22	3/4	1,254.91	3/4	892.09	3/4	528.80	3/4	170.25	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,973.97	3	1,610.66	3	1,247.35	3	884.52	3	521.23	3	162.70	3	3	3	3	3	3	3	3
1/4	1,966.40	1/4	1,603.09	1/4	1,239.78	1/4	876.96	1/4	513.66	1/4	155.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,958.83	1/2	1,595.52	1/2	1,232.21	1/2	869.39	1/2	506.09	1/2	147.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,951.26	3/4	1,587.95	3/4	1,224.65	3/4	861.82	3/4	498.52	3/4	140.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,943.69	4	1,580.38	4	1,217.10	4	854.25	4	490.95	4	132.48	4	4	4	4	4	4	4	4
1/4	1,936.12	1/4	1,572.81	1/4	1,209.54	1/4	846.68	1/4	483.38	1/4	124.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,928.55	1/2	1,565.24	1/2	1,201.98	1/2	839.11	1/2	475.82	1/2	117.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,920.98	3/4	1,557.67	3/4	1,194.43	3/4	831.54	3/4	468.25	3/4	109.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,913.42	5	1,550.10	5	1,186.87	5	823.98	5	460.68	5	102.42	5	5	5	5	5	5	5	5
1/4	1,905.85	1/4	1,542.53	1/4	1,179.31	1/4	816.41	1/4	453.11	1/4	94.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,898.28	1/2	1,534.97	1/2	1,171.76	1/2	808.84	1/2	445.54	1/2	87.47	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,890.71	3/4	1,527.40	3/4	1,164.20	3/4	801.27	3/4	437.99	3/4	80.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,883.14	6	1,519.83	6	1,156.64	6	793.70	6	430.44	6	73.94	6	6	6	6	6	6	6	6
1/4	1,875.57	1/4	1,512.26	1/4	1,149.09	1/4	786.13	1/4	422.89	1/4	67.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,868.00	1/2	1,504.69	1/2	1,141.53	1/2	778.56	1/2	415.34	1/2	60.41	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,860.43	3/4	1,497.12	3/4	1,133.97	3/4	770.99	3/4	407.92	3/4	54.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,852.86	7	1,489.55	7	1,126.42	7	763.43	7	400.50	7	49.41	7	7	7	7	7	7	7	7
1/4	1,845.29	1/4	1,481.98	1/4	1,118.86	1/4	755.86	1/4	393.08	1/4	43.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,837.73	1/2	1,474.41	1/2	1,111.30	1/2	748.29	1/2	385.65	1/2	38.40	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,830.16	3/4	1,466.84	3/4	1,103.75	3/4	740.72	3/4	378.23	3/4	34.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,822.59	8	1,459.28	8	1,096.19	8	733.15	8	370.81	8	29.91	8	8	8	8	8	8	8	8
1/4	1,815.02	1/4	1,451.71	1/4	1,088.63	1/4	725.58	1/4	363.39	1/4	25.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,807.45	1/2	1,444.14	1/2	1,081.08	1/2	718.01	1/2	355.97	1/2	21.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.88	3/4	1,436.57	3/4	1,073.52	3/4	710.44	3/4	348.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,792.31	9	1,429.00	9	1,065.96	9	702.88	9	341.13	9		9	9	9	9	9	9	9	9
1/4	1,784.74	1/4	1,421.43	1/4	1,058.41	1/4	695.31	1/4	333.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,777.17	1/2	1,413.86	1/2	1,050.85	1/2	687.74	1/2	326.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,769.60	3/4	1,406.29	3/4	1,043.29	3/4	680.17	3/4	318.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,762.04	10	1,398.72	10	1,035.74	10	672.60	10	311.45	10		10	10	10	10	10	10	10	10
1/4	1,754.47	1/4	1,391.15	1/4	1,028.18	1/4	665.03	1/4	304.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,746.90	1/2	1,383.59	1/2	1,020.62	1/2	657.46	1/2	296.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,739.33	3/4	1,376.02	3/4	1,013.07	3/4	649.90	3/4	289.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,731.76	11	1,368.45	11	1,005.51	11	642.33	11	281.76	11		11	11	11	11	11	11	11	11
1/4	1,724.19	1/4	1,360.88	1/4	997.95	1/4	634.76	1/4	274.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,716.62	1/2	1,353.31	1/2	990.40	1/2	627.19	1/2	266.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,709.05	3/4	1,345.74	3/4	982.84	3/4	619.62	3/4	259.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "EMS 514B"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	4,934.26	0	4,598.91	0	4,244.36	0	3,880.99	0	3,517.61	0	3,154.22	0	2,790.84	0	2,427.58		
1/4	1/4	1/4	4,927.47	1/4	4,591.72	1/4	4,236.80	1/4	3,873.42	1/4	3,510.04	1/4	3,146.65	1/4	2,783.27	1/4	2,420.01		
1/2	1/2	1/2	5,254.24	1/2	4,920.69	1/2	4,584.53	1/2	4,229.23	1/2	3,865.85	1/2	3,502.46	1/2	3,139.08	1/2	2,775.70	1/2	2,412.44
3/4	3/4	3/4	5,249.11	3/4	4,913.87	3/4	4,577.30	3/4	4,221.66	3/4	3,858.28	3/4	3,494.89	3/4	3,131.51	3/4	2,768.14	3/4	2,404.86
1	1	1	5,243.98	1	4,907.05	1	4,570.07	1	4,214.09	1	3,850.71	1	3,487.32	1	3,123.94	1	2,760.59	1	2,397.29
1/4	1/4	1/4	5,238.85	1/4	4,900.24	1/4	4,562.84	1/4	4,206.52	1/4	3,843.14	1/4	3,479.75	1/4	3,116.37	1/4	2,753.03	1/4	2,389.72
1/2	1/2	1/2	5,233.72	1/2	4,893.42	1/2	4,555.62	1/2	4,198.95	1/2	3,835.57	1/2	3,472.18	1/2	3,108.80	1/2	2,745.47	1/2	2,382.14
3/4	3/4	3/4	5,227.37	3/4	4,886.58	3/4	4,548.35	3/4	4,191.38	3/4	3,828.00	3/4	3,464.61	3/4	3,101.23	3/4	2,737.91	3/4	2,374.57
2	2	2	5,221.02	2	4,879.73	2	4,541.09	2	4,183.81	2	3,820.43	2	3,457.04	2	3,093.66	2	2,730.35	2	2,367.00
1/4	1/4	1/4	5,214.68	1/4	4,872.88	1/4	4,533.83	1/4	4,176.24	1/4	3,812.86	1/4	3,449.47	1/4	3,086.09	1/4	2,722.80	1/4	2,359.42
1/2	1/2	1/2	5,208.33	1/2	4,866.04	1/2	4,526.57	1/2	4,168.67	1/2	3,805.28	1/2	3,441.90	1/2	3,078.52	1/2	2,715.24	1/2	2,351.85
3/4	3/4	3/4	5,201.00	3/4	4,859.16	3/4	4,519.28	3/4	4,161.10	3/4	3,797.71	3/4	3,434.33	3/4	3,070.95	3/4	2,707.68	3/4	2,344.28
3	3	3	5,193.66	3	4,852.28	3	4,511.99	3	4,153.53	3	3,790.14	3	3,426.76	3	3,063.38	3	2,700.12	3	2,336.70
1/4	1/4	1/4	5,186.33	1/4	4,845.40	1/4	4,504.70	1/4	4,145.96	1/4	3,782.57	1/4	3,419.19	1/4	3,055.81	1/4	2,692.56	1/4	2,329.13
1/2	1/2	1/2	5,179.00	1/2	4,838.53	1/2	4,497.41	1/2	4,138.39	1/2	3,775.00	1/2	3,411.62	1/2	3,048.23	1/2	2,685.00	1/2	2,321.56
3/4	3/4	3/4	5,171.53	3/4	4,831.62	3/4	4,490.09	3/4	4,130.82	3/4	3,767.43	3/4	3,404.05	3/4	3,040.66	3/4	2,677.45	3/4	2,313.98
4	4	4	5,164.06	4	4,824.70	4	4,482.76	4	4,123.25	4	3,759.86	4	3,396.48	4	3,033.09	4	2,669.89	4	2,306.41
1/4	1/4	1/4	5,156.58	1/4	4,817.79	1/4	4,475.44	1/4	4,115.68	1/4	3,752.29	1/4	3,388.91	1/4	3,025.52	1/4	2,662.33	1/4	2,298.84
1/2	1/2	1/2	5,149.11	1/2	4,810.88	1/2	4,468.12	1/2	4,108.10	1/2	3,744.72	1/2	3,381.34	1/2	3,017.95	1/2	2,654.77	1/2	2,291.26
3/4	3/4	3/4	5,141.64	3/4	4,803.94	3/4	4,460.76	3/4	4,100.53	3/4	3,737.15	3/4	3,373.77	3/4	3,010.38	3/4	2,647.20	3/4	2,283.69
5	5	5	5,134.17	5	4,796.99	5	4,453.41	5	4,092.96	5	3,729.58	5	3,366.20	5	3,002.81	5	2,639.63	5	2,276.12
1/4	1/4	1/4	5,126.70	1/4	4,790.05	1/4	4,446.05	1/4	4,085.39	1/4	3,722.01	1/4	3,358.63	1/4	2,995.24	1/4	2,632.06	1/4	2,268.54
1/2	1/2	1/2	5,119.22	1/2	4,783.10	1/2	4,438.70	1/2	4,077.82	1/2	3,714.44	1/2	3,351.05	1/2	2,987.67	1/2	2,624.49	1/2	2,260.97
3/4	3/4	3/4	5,111.75	3/4	4,776.13	3/4	4,431.31	3/4	4,070.25	3/4	3,706.87	3/4	3,343.48	3/4	2,980.10	3/4	2,616.92	3/4	2,253.40
6	6	6	5,104.28	6	4,769.15	6	4,423.92	6	4,062.68	6	3,699.30	6	3,335.91	6	2,972.53	6	2,609.34	6	2,245.82
1/4	1/4	1/4	5,096.81	1/4	4,762.18	1/4	4,416.53	1/4	4,055.11	1/4	3,691.73	1/4	3,328.34	1/4	2,964.96	1/4	2,601.77	1/4	2,238.25
1/2	1/2	1/2	5,089.34	1/2	4,755.20	1/2	4,409.14	1/2	4,047.54	1/2	3,684.16	1/2	3,320.77	1/2	2,957.39	1/2	2,594.20	1/2	2,230.68
3/4	3/4	3/4	5,081.86	3/4	4,748.19	3/4	4,401.72	3/4	4,039.97	3/4	3,676.59	3/4	3,313.20	3/4	2,949.82	3/4	2,586.62	3/4	2,223.10
7	7	7	5,074.39	7	4,741.18	7	4,394.30	7	4,032.40	7	3,669.02	7	3,305.63	7	2,942.25	7	2,579.05	7	2,215.53
1/4	1/4	1/4	5,066.92	1/4	4,734.17	1/4	4,386.88	1/4	4,024.83	1/4	3,661.45	1/4	3,298.06	1/4	2,934.68	1/4	2,571.48	1/4	2,207.96
1/2	1/2	1/2	5,059.45	1/2	4,727.17	1/2	4,379.46	1/2	4,017.26	1/2	3,653.87	1/2	3,290.49	1/2	2,927.11	1/2	2,563.90	1/2	2,200.38
3/4	3/4	3/4	5,052.03	3/4	4,720.10	3/4	4,372.01	3/4	4,009.69	3/4	3,646.30	3/4	3,282.92	3/4	2,919.54	3/4	2,556.33	3/4	2,192.81
8	8	8	5,044.61	8	4,713.03	8	4,364.56	8	4,002.12	8	3,638.73	8	3,275.35	8	2,911.97	8	2,548.76	8	2,185.24
1/4	1/4	1/4	5,037.19	1/4	4,705.96	1/4	4,357.11	1/4	3,994.55	1/4	3,631.16	1/4	3,267.78	1/4	2,904.40	1/4	2,541.18	1/4	2,177.66
1/2	1/2	1/2	5,029.77	1/2	4,698.89	1/2	4,349.66	1/2	3,986.98	1/2	3,623.59	1/2	3,260.21	1/2	2,896.82	1/2	2,533.61	1/2	2,170.09
3/4	3/4	3/4	5,022.76	3/4	4,691.79	3/4	4,342.18	3/4	3,979.41	3/4	3,616.02	3/4	3,252.64	3/4	2,889.25	3/4	2,526.04	3/4	2,162.52
9	9	9	5,015.75	9	4,684.69	9	4,334.70	9	3,971.84	9	3,608.45	9	3,245.07	9	2,881.68	9	2,518.46	9	2,154.94
1/4	1/4	1/4	5,008.74	1/4	4,677.58	1/4	4,327.22	1/4	3,964.27	1/4	3,600.88	1/4	3,237.50	1/4	2,874.11	1/4	2,510.89	1/4	2,147.37
1/2	1/2	1/2	5,001.73	1/2	4,670.48	1/2	4,319.74	1/2	3,956.69	1/2	3,593.31	1/2	3,229.93	1/2	2,866.54	1/2	2,503.32	1/2	2,139.80
3/4	3/4	3/4	4,995.01	3/4	4,663.35	3/4	4,312.22	3/4	3,949.12	3/4	3,585.74	3/4	3,222.36	3/4	2,858.97	3/4	2,495.74	3/4	2,132.22
10	10	10	4,988.29	10	4,656.22	10	4,304.71	10	3,941.55	10	3,578.17	10	3,214.79	10	2,851.40	10	2,488.17	10	2,124.65
1/4	1/4	1/4	4,981.57	1/4	4,649.08	1/4	4,297.20	1/4	3,933.98	1/4	3,570.60	1/4	3,207.22	1/4	2,843.83	1/4	2,480.60	1/4	2,117.08
1/2	1/2	1/2	4,974.85	1/2	4,641.95	1/2	4,289.68	1/2	3,926.41	1/2	3,563.03	1/2	3,199.64	1/2	2,836.26	1/2	2,473.02	1/2	2,109.50
3/4	3/4	3/4	4,968.10	3/4	4,634.79	3/4	4,282.13	3/4	3,918.84	3/4	3,555.46	3/4	3,192.07	3/4	2,828.69	3/4	2,465.45	3/4	2,101.93
11	11	11	4,961.34	11	4,627.63	11	4,274.59	11	3,911.27	11	3,547.89	11	3,184.50	11	2,821.12	11	2,457.88	11	2,094.36
1/4	1/4	1/4	4,954.59	1/4	4,620.46	1/4	4,267.04	1/4	3,903.70	1/4	3,540.32	1/4	3,176.93	1/4	2,813.55	1/4	2,450.30	1/4	2,086.78
1/2	1/2	1/2	4,947.83	1/2	4,613.30	1/2	4,259.49	1/2	3,896.13	1/2	3,532.75	1/2	3,169.36	1/2	2,805.98	1/2	2,442.73	1/2	2,079.21
3/4	3/4	3/4	4,941.05	3/4	4,606.11	3/4	4,251.93	3/4	3,888.56	3/4	3,525.18	3/4	3,161.79	3/4	2,798.41	3/4	2,435.16	3/4	2,071.64

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,064.06	0	1,700.55	0	1,337.03	0	975.46	0	612.40	0	252.22	0		0		0		0	
1/4	2,056.49	1/4	1,692.97	1/4	1,329.45	1/4	967.94	1/4	604.82	1/4	244.80	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,048.92	1/2	1,685.40	1/2	1,321.88	1/2	960.41	1/2	597.25	1/2	237.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,041.34	3/4	1,677.83	3/4	1,314.31	3/4	952.89	3/4	589.68	3/4	229.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,033.77	1	1,670.25	1	1,306.73	1	945.37	1	582.10	1	222.52	1	1	1	1	1	1	1	1
1/4	2,026.20	1/4	1,662.68	1/4	1,299.16	1/4	937.85	1/4	574.53	1/4	215.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,018.62	1/2	1,655.11	1/2	1,291.59	1/2	930.32	1/2	566.96	1/2	207.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,011.05	3/4	1,647.53	3/4	1,284.02	3/4	922.78	3/4	559.39	3/4	200.23	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,003.48	2	1,639.96	2	1,276.45	2	915.25	2	551.81	2	192.79	2	2	2	2	2	2	2	2
1/4	1,995.90	1/4	1,632.39	1/4	1,268.88	1/4	907.71	1/4	544.24	1/4	185.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,988.33	1/2	1,624.81	1/2	1,261.31	1/2	900.17	1/2	536.67	1/2	177.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,980.76	3/4	1,617.24	3/4	1,253.78	3/4	892.60	3/4	529.09	3/4	170.35	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,973.18	3	1,609.67	3	1,246.25	3	885.02	3	521.52	3	162.79	3	3	3	3	3	3	3	3
1/4	1,965.61	1/4	1,602.09	1/4	1,238.72	1/4	877.45	1/4	513.95	1/4	155.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,958.04	1/2	1,594.52	1/2	1,231.18	1/2	869.88	1/2	506.37	1/2	147.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,950.46	3/4	1,586.95	3/4	1,223.66	3/4	862.31	3/4	498.80	3/4	140.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,942.89	4	1,579.37	4	1,216.14	4	854.73	4	491.23	4	132.56	4	4	4	4	4	4	4	4
1/4	1,935.32	1/4	1,571.80	1/4	1,208.62	1/4	847.16	1/4	483.66	1/4	125.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,927.74	1/2	1,564.23	1/2	1,201.10	1/2	839.59	1/2	476.08	1/2	117.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,920.17	3/4	1,556.65	3/4	1,193.58	3/4	832.01	3/4	468.51	3/4	109.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,912.60	5	1,549.08	5	1,186.06	5	824.44	5	460.94	5	102.48	5	5	5	5	5	5	5	5
1/4	1,905.02	1/4	1,541.51	1/4	1,178.53	1/4	816.87	1/4	453.36	1/4	95.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,897.45	1/2	1,533.93	1/2	1,171.01	1/2	809.29	1/2	445.79	1/2	87.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,889.88	3/4	1,526.36	3/4	1,163.49	3/4	801.72	3/4	438.24	3/4	80.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,882.30	6	1,518.79	6	1,155.97	6	794.15	6	430.68	6	73.99	6	6	6	6	6	6	6	6
1/4	1,874.73	1/4	1,511.21	1/4	1,148.45	1/4	786.58	1/4	423.13	1/4	67.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,867.16	1/2	1,503.64	1/2	1,140.93	1/2	779.00	1/2	415.57	1/2	60.45	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,859.59	3/4	1,496.07	3/4	1,133.41	3/4	771.43	3/4	408.15	3/4	54.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,852.01	7	1,488.49	7	1,125.88	7	763.86	7	400.72	7	49.43	7	7	7	7	7	7	7	7
1/4	1,844.44	1/4	1,480.92	1/4	1,118.36	1/4	756.28	1/4	393.30	1/4	43.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,836.87	1/2	1,473.35	1/2	1,110.84	1/2	748.71	1/2	385.87	1/2	38.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,829.29	3/4	1,465.77	3/4	1,103.32	3/4	741.14	3/4	378.45	3/4	34.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,821.72	8	1,458.20	8	1,095.80	8	733.56	8	371.02	8	29.93	8	8	8	8	8	8	8	8
1/4	1,814.15	1/4	1,450.63	1/4	1,088.28	1/4	725.99	1/4	363.60	1/4	25.69	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.57	1/2	1,443.05	1/2	1,080.76	1/2	718.42	1/2	356.17	1/2	21.44	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,799.00	3/4	1,435.48	3/4	1,073.23	3/4	710.85	3/4	348.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,791.43	9	1,427.91	9	1,065.71	9	703.27	9	341.32	9		9	9	9	9	9	9	9	9
1/4	1,783.85	1/4	1,420.33	1/4	1,058.19	1/4	695.70	1/4	333.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,776.28	1/2	1,412.76	1/2	1,050.67	1/2	688.13	1/2	326.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,768.71	3/4	1,405.19	3/4	1,043.15	3/4	680.55	3/4	319.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,761.13	10	1,397.61	10	1,035.63	10	672.98	10	311.62	10		10	10	10	10	10	10	10	10
1/4	1,753.56	1/4	1,390.04	1/4	1,028.11	1/4	665.41	1/4	304.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.99	1/2	1,382.47	1/2	1,020.59	1/2	657.83	1/2	296.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,738.41	3/4	1,374.89	3/4	1,013.06	3/4	650.26	3/4	289.35	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,730.84	11	1,367.32	11	1,005.54	11	642.69	11	281.92	11		11	11	11	11	11	11	11	11
1/4	1,723.27	1/4	1,359.75	1/4	998.02	1/4	635.12	1/4	274.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,715.69	1/2	1,352.17	1/2	990.50	1/2	627.54	1/2	267.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,708.12	3/4	1,344.60	3/4	982.98	3/4	619.97	3/4	259.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 514B"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	5,233.17	0	4,899.09	0	4,563.67	0	4,209.27	0	3,847.13	0	3,484.99	0	3,122.85	0	2,760.71	0	2,398.49	
1/4	1/4	5,228.06	1/4	4,892.29	1/4	4,556.47	1/4	4,201.73	1/4	3,839.58	1/4	3,477.44	1/4	3,115.30	1/4	2,753.16	1/4	2,390.94	
1/2	1/2	5,222.95	1/2	4,885.50	1/2	4,549.27	1/2	4,194.18	1/2	3,832.04	1/2	3,469.90	1/2	3,107.76	1/2	2,745.62	1/2	2,383.39	
3/4	3/4	5,217.84	3/4	4,878.71	3/4	4,542.06	3/4	4,186.64	3/4	3,824.50	3/4	3,462.35	3/4	3,100.21	3/4	2,738.07	3/4	2,375.85	
1	1	5,211.51	1	4,871.88	1	4,534.83	1	4,179.09	1	3,816.95	1	3,454.81	1	3,092.67	1	2,730.53	1	2,368.30	
1/4	1/4	5,205.18	1/4	4,865.06	1/4	4,527.59	1/4	4,171.55	1/4	3,809.41	1/4	3,447.27	1/4	3,085.12	1/4	2,722.98	1/4	2,360.75	
1/2	1/2	5,198.86	1/2	4,858.24	1/2	4,520.35	1/2	4,164.00	1/2	3,801.86	1/2	3,439.72	1/2	3,077.58	1/2	2,715.44	1/2	2,353.20	
3/4	3/4	5,192.53	3/4	4,851.42	3/4	4,513.12	3/4	4,156.46	3/4	3,794.32	3/4	3,432.18	3/4	3,070.04	3/4	2,707.89	3/4	2,345.66	
2	2	5,185.22	2	4,844.56	2	4,505.85	2	4,148.91	2	3,786.77	2	3,424.63	2	3,062.49	2	2,700.35	2	2,338.11	
1/4	1/4	5,177.92	1/4	4,837.71	1/4	4,498.59	1/4	4,141.37	1/4	3,779.23	1/4	3,417.09	1/4	3,054.95	1/4	2,692.81	1/4	2,330.56	
1/2	1/2	5,170.61	1/2	4,830.86	1/2	4,491.32	1/2	4,133.82	1/2	3,771.68	1/2	3,409.54	1/2	3,047.40	1/2	2,685.26	1/2	2,323.01	
3/4	3/4	5,163.30	3/4	4,824.00	3/4	4,484.05	3/4	4,126.28	3/4	3,764.14	3/4	3,402.00	3/4	3,039.86	3/4	2,677.72	3/4	2,315.47	
3	3	5,155.85	3	4,817.11	3	4,476.76	3	4,118.73	3	3,756.59	3	3,394.45	3	3,032.31	3	2,670.17	3	2,307.92	
1/4	1/4	5,148.40	1/4	4,810.23	1/4	4,469.46	1/4	4,111.19	1/4	3,749.05	1/4	3,386.91	1/4	3,024.77	1/4	2,662.63	1/4	2,300.37	
1/2	1/2	5,140.96	1/2	4,803.34	1/2	4,462.16	1/2	4,103.65	1/2	3,741.50	1/2	3,379.36	1/2	3,017.22	1/2	2,655.08	1/2	2,292.82	
3/4	3/4	5,133.51	3/4	4,796.45	3/4	4,454.87	3/4	4,096.10	3/4	3,733.96	3/4	3,371.82	3/4	3,009.68	3/4	2,647.54	3/4	2,285.28	
4	4	5,126.07	4	4,789.53	4	4,447.54	4	4,088.56	4	3,726.42	4	3,364.27	4	3,002.13	4	2,639.99	4	2,277.73	
1/4	1/4	5,118.62	1/4	4,782.61	1/4	4,440.21	1/4	4,081.01	1/4	3,718.87	1/4	3,356.73	1/4	2,994.59	1/4	2,632.45	1/4	2,270.18	
1/2	1/2	5,111.17	1/2	4,775.69	1/2	4,432.88	1/2	4,073.47	1/2	3,711.33	1/2	3,349.19	1/2	2,987.04	1/2	2,624.90	1/2	2,262.64	
3/4	3/4	5,103.73	3/4	4,768.77	3/4	4,425.54	3/4	4,065.92	3/4	3,703.78	3/4	3,341.64	3/4	2,979.50	3/4	2,617.36	3/4	2,255.09	
5	5	5,096.28	5	4,761.82	5	4,418.18	5	4,058.38	5	3,696.24	5	3,334.10	5	2,971.96	5	2,609.81	5	2,247.54	
1/4	1/4	5,088.84	1/4	4,754.87	1/4	4,410.82	1/4	4,050.83	1/4	3,688.69	1/4	3,326.55	1/4	2,964.41	1/4	2,602.26	1/4	2,239.99	
1/2	1/2	5,081.39	1/2	4,747.92	1/2	4,403.45	1/2	4,043.29	1/2	3,681.15	1/2	3,319.01	1/2	2,956.87	1/2	2,594.72	1/2	2,232.45	
3/4	3/4	5,073.94	3/4	4,740.96	3/4	4,396.09	3/4	4,035.74	3/4	3,673.60	3/4	3,311.46	3/4	2,949.32	3/4	2,587.17	3/4	2,224.90	
6	6	5,066.50	6	4,733.98	6	4,388.69	6	4,028.20	6	3,666.06	6	3,303.92	6	2,941.78	6	2,579.62	6	2,217.35	
1/4	1/4	5,059.05	1/4	4,726.99	1/4	4,381.30	1/4	4,020.65	1/4	3,658.51	1/4	3,296.37	1/4	2,934.23	1/4	2,572.08	1/4	2,209.80	
1/2	1/2	5,051.61	1/2	4,720.01	1/2	4,373.91	1/2	4,013.11	1/2	3,650.97	1/2	3,288.83	1/2	2,926.69	1/2	2,564.53	1/2	2,202.26	
3/4	3/4	5,044.16	3/4	4,713.02	3/4	4,366.51	3/4	4,005.57	3/4	3,643.42	3/4	3,281.28	3/4	2,919.14	3/4	2,556.98	3/4	2,194.71	
7	7	5,036.77	7	4,705.98	7	4,359.09	7	3,998.02	7	3,635.88	7	3,273.74	7	2,911.60	7	2,549.43	7	2,187.16	
1/4	1/4	5,029.37	1/4	4,698.93	1/4	4,351.66	1/4	3,990.48	1/4	3,628.34	1/4	3,266.19	1/4	2,904.05	1/4	2,541.89	1/4	2,179.62	
1/2	1/2	5,021.98	1/2	4,691.89	1/2	4,344.24	1/2	3,982.93	1/2	3,620.79	1/2	3,258.65	1/2	2,896.51	1/2	2,534.34	1/2	2,172.07	
3/4	3/4	5,014.59	3/4	4,684.85	3/4	4,336.81	3/4	3,975.39	3/4	3,613.25	3/4	3,251.11	3/4	2,888.96	3/4	2,526.79	3/4	2,164.52	
8	8	5,007.60	8	4,677.77	8	4,329.36	8	3,967.84	8	3,605.70	8	3,243.56	8	2,881.42	8	2,519.24	8	2,156.97	
1/4	1/4	5,000.62	1/4	4,670.69	1/4	4,321.91	1/4	3,960.30	1/4	3,598.16	1/4	3,236.02	1/4	2,873.88	1/4	2,511.70	1/4	2,149.43	
1/2	1/2	4,993.63	1/2	4,663.61	1/2	4,314.45	1/2	3,952.75	1/2	3,590.61	1/2	3,228.47	1/2	2,866.33	1/2	2,504.15	1/2	2,141.88	
3/4	3/4	4,986.65	3/4	4,656.53	3/4	4,307.00	3/4	3,945.21	3/4	3,583.07	3/4	3,220.93	3/4	2,858.79	3/4	2,496.60	3/4	2,134.33	
9	9	4,979.95	9	4,649.43	9	4,299.51	9	3,937.66	9	3,575.52	9	3,213.38	9	2,851.24	9	2,489.05	9	2,126.78	
1/4	1/4	4,973.25	1/4	4,642.32	1/4	4,292.02	1/4	3,930.12	1/4	3,567.98	1/4	3,205.84	1/4	2,843.70	1/4	2,481.51	1/4	2,119.24	
1/2	1/2	4,966.55	1/2	4,635.21	1/2	4,284.53	1/2	3,922.58	1/2	3,560.43	1/2	3,198.29	1/2	2,836.15	1/2	2,473.96	1/2	2,111.69	
3/4	3/4	4,959.86	3/4	4,628.10	3/4	4,277.04	3/4	3,915.03	3/4	3,552.89	3/4	3,190.75	3/4	2,828.61	3/4	2,466.41	3/4	2,104.14	
10	10	4,953.12	10	4,620.96	10	4,269.52	10	3,907.49	10	3,545.35	10	3,183.20	10	2,821.06	10	2,458.87	10	2,096.60	
1/4	1/4	4,946.39	1/4	4,613.83	1/4	4,262.00	1/4	3,899.94	1/4	3,537.80	1/4	3,175.66	1/4	2,813.52	1/4	2,451.32	1/4	2,089.05	
1/2	1/2	4,939.66	1/2	4,606.69	1/2	4,254.48	1/2	3,892.40	1/2	3,530.26	1/2	3,168.12	1/2	2,805.97	1/2	2,443.77	1/2	2,081.50	
3/4	3/4	4,932.93	3/4	4,599.55	3/4	4,246.96	3/4	3,884.85	3/4	3,522.71	3/4	3,160.57	3/4	2,798.43	3/4	2,436.22	3/4	2,073.95	
11	11	4,926.17	11	4,592.38	11	4,239.42	11	3,877.31	11	3,515.17	11	3,153.03	11	2,790.89	11	2,428.68	11	2,066.41	
1/4	1/4	4,919.40	1/4	4,585.21	1/4	4,231.89	1/4	3,869.76	1/4	3,507.62	1/4	3,145.48	1/4	2,783.34	1/4	2,421.13	1/4	2,058.86	
1/2	1/2	4,912.64	1/2	4,578.04	1/2	4,224.35	1/2	3,862.22	1/2	3,500.08	1/2	3,137.94	1/2	2,775.80	1/2	2,413.58	1/2	2,051.31	
3/4	3/4	5,238.28	3/4	4,905.88	3/4	4,570.87	3/4	4,216.81	3/4	3,854.67	3/4	3,492.53	3/4	3,130.39	3/4	2,768.25	3/4	2,406.03	

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,036.22	0	1,673.95	0	1,311.68	0	949.87	0	587.64	0	229.16	0		0		0		0	
1/4	2,028.67	1/4	1,666.40	1/4	1,304.13	1/4	942.33	1/4	580.09	1/4	221.76	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,021.12	1/2	1,658.85	1/2	1,296.58	1/2	934.79	1/2	572.55	1/2	214.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,013.57	3/4	1,651.30	3/4	1,289.03	3/4	927.26	3/4	565.00	3/4	206.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,006.03	1	1,643.76	1	1,281.49	1	919.71	1	557.45	1	199.54	1	1	1	1	1	1	1	1
1/4	1,998.48	1/4	1,636.21	1/4	1,273.94	1/4	912.16	1/4	549.91	1/4	192.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,990.93	1/2	1,628.66	1/2	1,266.39	1/2	904.62	1/2	542.36	1/2	184.71	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,983.39	3/4	1,621.12	3/4	1,258.84	3/4	897.07	3/4	534.81	3/4	177.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,975.84	2	1,613.57	2	1,251.30	2	889.52	2	527.27	2	169.76	2	2	2	2	2	2	2	2
1/4	1,968.29	1/4	1,606.02	1/4	1,243.76	1/4	881.97	1/4	519.72	1/4	162.23	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,960.74	1/2	1,598.47	1/2	1,236.21	1/2	874.43	1/2	512.17	1/2	154.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,953.20	3/4	1,590.93	3/4	1,228.67	3/4	866.88	3/4	504.62	3/4	147.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,945.65	3	1,583.38	3	1,221.13	3	859.33	3	497.08	3	139.63	3	3	3	3	3	3	3	3
1/4	1,938.10	1/4	1,575.83	1/4	1,213.60	1/4	851.79	1/4	489.53	1/4	132.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,930.55	1/2	1,568.28	1/2	1,206.06	1/2	844.24	1/2	481.98	1/2	124.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,923.01	3/4	1,560.74	3/4	1,198.52	3/4	836.69	3/4	474.44	3/4	117.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,915.46	4	1,553.19	4	1,190.99	4	829.15	4	466.89	4	109.58	4	4	4	4	4	4	4	4
1/4	1,907.91	1/4	1,545.64	1/4	1,183.45	1/4	821.60	1/4	459.34	1/4	102.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,900.37	1/2	1,538.09	1/2	1,175.92	1/2	814.05	1/2	451.80	1/2	94.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,892.82	3/4	1,530.55	3/4	1,168.38	3/4	806.50	3/4	444.25	3/4	87.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,885.27	5	1,523.00	5	1,160.85	5	798.96	5	436.72	5	80.48	5	5	5	5	5	5	5	5
1/4	1,877.72	1/4	1,515.45	1/4	1,153.31	1/4	791.41	1/4	429.19	1/4	73.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,870.18	1/2	1,507.91	1/2	1,145.78	1/2	783.86	1/2	421.66	1/2	66.99	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,862.63	3/4	1,500.36	3/4	1,138.24	3/4	776.32	3/4	414.13	3/4	60.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,855.08	6	1,492.81	6	1,130.71	6	768.77	6	406.73	6	54.75	6	6	6	6	6	6	6	6
1/4	1,847.53	1/4	1,485.26	1/4	1,123.17	1/4	761.22	1/4	399.34	1/4	49.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,839.99	1/2	1,477.72	1/2	1,115.64	1/2	753.68	1/2	391.94	1/2	43.78	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,832.44	3/4	1,470.17	3/4	1,108.10	3/4	746.13	3/4	384.54	3/4	38.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,824.89	7	1,462.62	7	1,100.57	7	738.58	7	377.14	7	34.06	7	7	7	7	7	7	7	7
1/4	1,817.35	1/4	1,455.07	1/4	1,093.03	1/4	731.03	1/4	369.74	1/4	29.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,809.80	1/2	1,447.53	1/2	1,085.50	1/2	723.49	1/2	362.34	1/2	25.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,802.25	3/4	1,439.98	3/4	1,077.96	3/4	715.94	3/4	354.94	3/4	21.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,794.70	8	1,432.43	8	1,070.43	8	708.39	8	347.54	8		8	8	8	8	8	8	8	8
1/4	1,787.16	1/4	1,424.89	1/4	1,062.89	1/4	700.85	1/4	340.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,779.61	1/2	1,417.34	1/2	1,055.36	1/2	693.30	1/2	332.74	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,772.06	3/4	1,409.79	3/4	1,047.82	3/4	685.75	3/4	325.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,764.51	9	1,402.24	9	1,040.29	9	678.21	9	317.94	9		9	9	9	9	9	9	9	9
1/4	1,756.97	1/4	1,394.70	1/4	1,032.75	1/4	670.66	1/4	310.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,749.42	1/2	1,387.15	1/2	1,025.22	1/2	663.11	1/2	303.15	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,741.87	3/4	1,379.60	3/4	1,017.68	3/4	655.56	3/4	295.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,734.32	10	1,372.05	10	1,010.15	10	648.02	10	288.35	10		10	10	10	10	10	10	10	10
1/4	1,726.78	1/4	1,364.51	1/4	1,002.61	1/4	640.47	1/4	280.95	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,719.23	1/2	1,356.96	1/2	995.08	1/2	632.92	1/2	273.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,711.68	3/4	1,349.41	3/4	987.54	3/4	625.38	3/4	266.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,704.14	11	1,341.87	11	980.01	11	617.83	11	258.75	11		11	11	11	11	11	11	11	11
1/4	1,696.59	1/4	1,334.32	1/4	972.47	1/4	610.28	1/4	251.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,689.04	1/2	1,326.77	1/2	964.94	1/2	602.74	1/2	243.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,681.49	3/4	1,319.22	3/4	957.40	3/4	595.19	3/4	236.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

PRECISION MEASUREMENT  
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# BARGE "EMS 514B"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	5,208.24	0	4,876.62	0	4,542.41	0	4,189.18	0	3,827.91	0	3,466.63	0	3,105.35	0	2,744.13	0	2,384.44	
1/4	1/4	5,203.14	1/4	4,869.85	1/4	4,535.22	1/4	4,181.66	1/4	3,820.38	1/4	3,459.10	1/4	3,097.83	1/4	2,736.71	1/4	2,376.91	
1/2	1/2	5,198.04	1/2	4,863.07	1/2	4,528.04	1/2	4,174.13	1/2	3,812.85	1/2	3,451.58	1/2	3,090.30	1/2	2,729.29	1/2	2,369.38	
3/4	3/4	5,192.94	3/4	4,856.29	3/4	4,520.85	3/4	4,166.60	3/4	3,805.33	3/4	3,444.05	3/4	3,082.77	3/4	2,721.87	3/4	2,361.85	
1	1	5,187.84	1	4,849.52	1	4,513.66	1	4,159.08	1	3,797.80	1	3,436.52	1	3,075.25	1	2,714.45	1	2,354.32	
1/4	1/4	5,181.53	1/4	4,842.71	1/4	4,506.44	1/4	4,151.55	1/4	3,790.27	1/4	3,429.00	1/4	3,067.72	1/4	2,707.03	1/4	2,346.79	
1/2	1/2	5,175.22	1/2	4,835.90	1/2	4,499.23	1/2	4,144.02	1/2	3,782.75	1/2	3,421.47	1/2	3,060.19	1/2	2,699.61	1/2	2,339.26	
3/4	3/4	5,168.91	3/4	4,829.09	3/4	4,492.01	3/4	4,136.50	3/4	3,775.22	3/4	3,413.94	3/4	3,052.67	3/4	2,692.19	3/4	2,331.73	
2	2	5,162.60	2	4,822.29	2	4,484.79	2	4,128.97	2	3,767.69	2	3,406.42	2	3,045.14	2	2,684.77	2	2,324.20	
1/4	1/4	5,155.31	1/4	4,815.45	1/4	4,477.54	1/4	4,121.44	1/4	3,760.17	1/4	3,398.89	1/4	3,037.61	1/4	2,677.35	1/4	2,316.67	
1/2	1/2	5,148.02	1/2	4,808.61	1/2	4,470.29	1/2	4,113.92	1/2	3,752.64	1/2	3,391.36	1/2	3,030.09	1/2	2,669.93	1/2	2,309.15	
3/4	3/4	5,140.72	3/4	4,801.78	3/4	4,463.04	3/4	4,106.39	3/4	3,745.11	3/4	3,383.84	3/4	3,022.56	3/4	2,662.51	3/4	2,301.62	
3	3	5,133.43	3	4,794.94	3	4,455.79	3	4,098.87	3	3,737.59	3	3,376.31	3	3,015.03	3	2,655.09	3	2,294.09	
1/4	1/4	5,126.01	1/4	4,788.07	1/4	4,448.51	1/4	4,091.34	1/4	3,730.06	1/4	3,368.78	1/4	3,007.51	1/4	2,647.65	1/4	2,286.56	
1/2	1/2	5,118.58	1/2	4,781.20	1/2	4,441.23	1/2	4,083.81	1/2	3,722.54	1/2	3,361.26	1/2	2,999.98	1/2	2,640.22	1/2	2,279.03	
3/4	3/4	5,111.15	3/4	4,774.32	3/4	4,433.95	3/4	4,076.29	3/4	3,715.01	3/4	3,353.73	3/4	2,992.45	3/4	2,632.79	3/4	2,271.50	
4	4	5,103.72	4	4,767.45	4	4,426.68	4	4,068.76	4	3,707.48	4	3,346.21	4	2,984.93	4	2,625.35	4	2,263.97	
1/4	1/4	5,096.29	1/4	4,760.55	1/4	4,419.36	1/4	4,061.23	1/4	3,699.96	1/4	3,338.68	1/4	2,977.40	1/4	2,617.83	1/4	2,256.44	
1/2	1/2	5,088.86	1/2	4,753.64	1/2	4,412.05	1/2	4,053.71	1/2	3,692.43	1/2	3,331.15	1/2	2,969.87	1/2	2,610.31	1/2	2,248.91	
3/4	3/4	5,081.44	3/4	4,746.74	3/4	4,404.74	3/4	4,046.18	3/4	3,684.90	3/4	3,323.63	3/4	2,962.35	3/4	2,602.79	3/4	2,241.38	
5	5	5,074.01	5	4,739.83	5	4,397.42	5	4,038.65	5	3,677.38	5	3,316.10	5	2,954.82	5	2,595.26	5	2,233.85	
1/4	1/4	5,066.58	1/4	4,732.90	1/4	4,390.08	1/4	4,031.13	1/4	3,669.85	1/4	3,308.57	1/4	2,947.30	1/4	2,587.73	1/4	2,226.32	
1/2	1/2	5,059.15	1/2	4,725.96	1/2	4,382.73	1/2	4,023.60	1/2	3,662.32	1/2	3,301.05	1/2	2,939.77	1/2	2,580.20	1/2	2,218.79	
3/4	3/4	5,051.72	3/4	4,719.03	3/4	4,375.38	3/4	4,016.07	3/4	3,654.80	3/4	3,293.52	3/4	2,932.24	3/4	2,572.67	3/4	2,211.26	
6	6	5,044.29	6	4,712.10	6	4,368.04	6	4,008.55	6	3,647.27	6	3,285.99	6	2,924.72	6	2,565.14	6	2,203.73	
1/4	1/4	5,036.87	1/4	4,705.13	1/4	4,360.66	1/4	4,001.02	1/4	3,639.74	1/4	3,278.47	1/4	2,917.19	1/4	2,557.62	1/4	2,196.20	
1/2	1/2	5,029.44	1/2	4,698.16	1/2	4,353.28	1/2	3,993.49	1/2	3,632.22	1/2	3,270.94	1/2	2,909.66	1/2	2,550.09	1/2	2,188.67	
3/4	3/4	5,022.01	3/4	4,691.19	3/4	4,345.91	3/4	3,985.97	3/4	3,624.69	3/4	3,263.41	3/4	2,902.14	3/4	2,542.56	3/4	2,181.15	
7	7	5,014.58	7	4,684.22	7	4,338.53	7	3,978.44	7	3,617.16	7	3,255.89	7	2,894.61	7	2,535.03	7	2,173.62	
1/4	1/4	5,007.20	1/4	4,677.19	1/4	4,331.12	1/4	3,970.91	1/4	3,609.64	1/4	3,248.36	1/4	2,887.08	1/4	2,527.50	1/4	2,166.09	
1/2	1/2	4,999.83	1/2	4,670.17	1/2	4,323.72	1/2	3,963.39	1/2	3,602.11	1/2	3,240.83	1/2	2,879.56	1/2	2,519.97	1/2	2,158.56	
3/4	3/4	4,992.45	3/4	4,663.14	3/4	4,316.31	3/4	3,955.86	3/4	3,594.58	3/4	3,233.31	3/4	2,872.03	3/4	2,512.44	3/4	2,151.03	
8	8	4,985.08	8	4,656.11	8	4,308.90	8	3,948.33	8	3,587.06	8	3,225.78	8	2,864.50	8	2,504.91	8	2,143.50	
1/4	1/4	4,978.11	1/4	4,649.05	1/4	4,301.47	1/4	3,940.81	1/4	3,579.53	1/4	3,218.25	1/4	2,856.98	1/4	2,497.38	1/4	2,135.97	
1/2	1/2	4,971.14	1/2	4,641.99	1/2	4,294.03	1/2	3,933.28	1/2	3,572.00	1/2	3,210.73	1/2	2,849.45	1/2	2,489.85	1/2	2,128.44	
3/4	3/4	4,964.17	3/4	4,634.93	3/4	4,286.59	3/4	3,925.75	3/4	3,564.48	3/4	3,203.20	3/4	2,841.92	3/4	2,482.32	3/4	2,120.91	
9	9	4,957.20	9	4,627.86	9	4,279.15	9	3,918.23	9	3,556.95	9	3,195.67	9	2,834.40	9	2,474.79	9	2,113.38	
1/4	1/4	4,950.52	1/4	4,620.77	1/4	4,271.68	1/4	3,910.70	1/4	3,549.42	1/4	3,188.15	1/4	2,826.87	1/4	2,467.26	1/4	2,105.85	
1/2	1/2	4,943.84	1/2	4,613.68	1/2	4,264.21	1/2	3,903.17	1/2	3,541.90	1/2	3,180.62	1/2	2,819.34	1/2	2,459.73	1/2	2,098.32	
3/4	3/4	4,937.16	3/4	4,606.59	3/4	4,256.74	3/4	3,895.65	3/4	3,534.37	3/4	3,173.09	3/4	2,811.82	3/4	2,452.20	3/4	2,090.79	
10	10	4,930.47	10	4,599.50	10	4,249.27	10	3,888.12	10	3,526.84	10	3,165.57	10	2,804.29	10	2,444.67	10	2,083.26	
1/4	1/4	4,923.76	1/4	4,592.38	1/4	4,241.77	1/4	3,880.59	1/4	3,519.32	1/4	3,158.04	1/4	2,796.76	1/4	2,437.15	1/4	2,075.73	
1/2	1/2	4,917.04	1/2	4,585.26	1/2	4,234.26	1/2	3,873.07	1/2	3,511.79	1/2	3,150.51	1/2	2,789.24	1/2	2,429.62	1/2	2,068.20	
3/4	3/4	4,910.33	3/4	4,578.14	3/4	4,226.76	3/4	3,865.54	3/4	3,504.26	3/4	3,142.99	3/4	2,781.71	3/4	2,422.09	3/4	2,060.68	
11	11	4,903.61	11	4,571.01	11	4,219.26	11	3,858.01	11	3,496.74	11	3,135.46	11	2,774.18	11	2,414.56	11	2,053.15	
1/4	1/4	4,896.86	1/4	4,563.86	1/4	4,211.74	1/4	3,850.49	1/4	3,489.21	1/4	3,127.93	1/4	2,766.67	1/4	2,407.03	1/4	2,045.62	
1/2	1/2	4,890.12	1/2	4,556.71	1/2	4,204.22	1/2	3,842.96	1/2	3,481.68	1/2	3,120.41	1/2	2,759.16	1/2	2,399.50	1/2	2,038.09	
3/4	3/4	4,883.37	3/4	4,549.56	3/4	4,196.70	3/4	3,835.43	3/4	3,474.16	3/4	3,112.88	3/4	2,751.64	3/4	2,391.97	3/4	2,030.56	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,023.03	0	1,661.62	0	1,300.21	0	952.64	0	593.77	0	235.99	0		0		0		0	
1/4	2,015.50	1/4	1,654.09	1/4	1,292.68	1/4	945.45	1/4	586.24	1/4	228.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,007.97	1/2	1,646.56	1/2	1,285.15	1/2	938.27	1/2	578.71	1/2	221.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,000.44	3/4	1,639.03	3/4	1,277.62	3/4	931.08	3/4	571.19	3/4	213.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,992.91	1	1,631.50	1	1,270.09	1	923.89	1	563.66	1	206.47	1	1	1	1	1	1	1	1
1/4	1,985.38	1/4	1,623.97	1/4	1,262.60	1/4	916.65	1/4	556.13	1/4	199.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,977.85	1/2	1,616.44	1/2	1,255.11	1/2	909.41	1/2	548.60	1/2	191.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,970.32	3/4	1,608.91	3/4	1,247.62	3/4	902.17	3/4	541.07	3/4	184.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,962.79	2	1,601.38	2	1,240.14	2	894.94	2	533.54	2	176.87	2	2	2	2	2	2	2	2
1/4	1,955.26	1/4	1,593.85	1/4	1,232.94	1/4	887.41	1/4	526.01	1/4	169.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,947.73	1/2	1,586.32	1/2	1,225.74	1/2	879.88	1/2	518.48	1/2	161.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,940.20	3/4	1,578.79	3/4	1,218.55	3/4	872.35	3/4	510.95	3/4	154.33	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,932.68	3	1,571.26	3	1,211.35	3	864.82	3	503.42	3	146.82	3	3	3	3	3	3	3	3
1/4	1,925.15	1/4	1,563.73	1/4	1,204.16	1/4	857.29	1/4	495.89	1/4	139.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.62	1/2	1,556.21	1/2	1,196.98	1/2	849.76	1/2	488.37	1/2	131.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.09	3/4	1,548.68	3/4	1,189.79	3/4	842.23	3/4	480.84	3/4	124.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,902.56	4	1,541.15	4	1,182.61	4	834.70	4	473.31	4	116.76	4	4	4	4	4	4	4	4
1/4	1,895.03	1/4	1,533.62	1/4	1,175.42	1/4	827.17	1/4	465.78	1/4	109.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,887.50	1/2	1,526.09	1/2	1,168.23	1/2	819.65	1/2	458.25	1/2	101.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,879.97	3/4	1,518.56	3/4	1,161.05	3/4	812.12	3/4	450.72	3/4	94.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,872.44	5	1,511.03	5	1,153.86	5	804.59	5	443.19	5	87.02	5	5	5	5	5	5	5	5
1/4	1,864.91	1/4	1,503.50	1/4	1,146.67	1/4	797.06	1/4	435.68	1/4	80.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,857.38	1/2	1,495.97	1/2	1,139.49	1/2	789.53	1/2	428.17	1/2	73.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,849.85	3/4	1,488.44	3/4	1,132.30	3/4	782.00	3/4	420.66	3/4	66.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,842.32	6	1,480.91	6	1,125.11	6	774.47	6	413.15	6	60.10	6	6	6	6	6	6	6	6
1/4	1,834.79	1/4	1,473.38	1/4	1,117.93	1/4	766.94	1/4	405.77	1/4	54.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,827.26	1/2	1,465.85	1/2	1,110.74	1/2	759.41	1/2	398.39	1/2	49.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,819.73	3/4	1,458.32	3/4	1,103.56	3/4	751.88	3/4	391.01	3/4	43.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,812.21	7	1,450.79	7	1,096.37	7	744.35	7	383.62	7	38.20	7	7	7	7	7	7	7	7
1/4	1,804.68	1/4	1,443.26	1/4	1,089.18	1/4	736.83	1/4	376.24	1/4	33.98	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.15	1/2	1,435.74	1/2	1,082.00	1/2	729.30	1/2	368.86	1/2	29.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,789.62	3/4	1,428.21	3/4	1,074.81	3/4	721.77	3/4	361.48	3/4	25.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,782.09	8	1,420.68	8	1,067.62	8	714.24	8	354.10	8	21.32	8	8	8	8	8	8	8	8
1/4	1,774.56	1/4	1,413.15	1/4	1,060.44	1/4	706.71	1/4	346.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,767.03	1/2	1,405.62	1/2	1,053.25	1/2	699.18	1/2	339.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,759.50	3/4	1,398.09	3/4	1,046.06	3/4	691.65	3/4	331.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,751.97	9	1,390.56	9	1,038.88	9	684.12	9	324.57	9		9	9	9	9	9	9	9	9
1/4	1,744.44	1/4	1,383.03	1/4	1,031.69	1/4	676.59	1/4	317.19	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,736.91	1/2	1,375.50	1/2	1,024.50	1/2	669.06	1/2	309.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,729.38	3/4	1,367.97	3/4	1,017.32	3/4	661.53	3/4	302.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,721.85	10	1,360.44	10	1,010.13	10	654.01	10	295.04	10		10	10	10	10	10	10	10	10
1/4	1,714.32	1/4	1,352.91	1/4	1,002.95	1/4	646.48	1/4	287.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,706.79	1/2	1,345.38	1/2	995.76	1/2	638.95	1/2	280.28	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,699.26	3/4	1,337.85	3/4	988.57	3/4	631.42	3/4	272.90	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,691.73	11	1,330.32	11	981.39	11	623.89	11	265.52	11		11	11	11	11	11	11	11	11
1/4	1,684.21	1/4	1,322.79	1/4	974.20	1/4	616.36	1/4	258.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.68	1/2	1,315.26	1/2	967.01	1/2	608.83	1/2	250.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,669.15	3/4	1,307.74	3/4	959.83	3/4	601.30	3/4	243.37	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "EMS 514B"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	0	4,233.18	0	4,066.10	0	3,880.42	0	3,686.36	0	3,480.28	0	3,121.77	0	2,762.01	0	2,401.65			
1/4	1/4	4,396.12	1/4	4,229.91	1/4	4,062.44	1/4	3,876.38	1/4	3,682.32	1/4	3,472.80	1/4	3,114.28	1/4	2,754.50	1/4	2,394.14		
1/2	1/2	4,394.46	1/2	4,226.60	1/2	4,058.73	1/2	3,872.34	1/2	3,678.27	1/2	3,465.33	1/2	3,106.78	1/2	2,746.99	1/2	2,386.63		
3/4	3/4	4,392.80	3/4	4,223.29	3/4	4,055.03	3/4	3,868.30	3/4	3,674.23	3/4	3,457.85	3/4	3,099.29	3/4	2,739.49	3/4	2,379.12		
1	1	4,391.15	1	4,219.98	1	4,051.33	1	3,864.25	1	3,670.19	1	3,450.38	1	3,091.79	1	2,731.98	1	2,371.61		
1/4	1/4	4,389.49	1/4	4,216.67	1/4	4,047.62	1/4	3,860.21	1/4	3,666.14	1/4	3,442.90	1/4	3,084.30	1/4	2,724.47	1/4	2,364.10		
1/2	1/2	4,386.61	1/2	4,213.33	1/2	4,043.89	1/2	3,856.17	1/2	3,662.10	1/2	3,435.42	1/2	3,076.81	1/2	2,716.97	1/2	2,356.60		
3/4	3/4	4,383.74	3/4	4,209.99	3/4	4,040.15	3/4	3,852.13	3/4	3,658.06	3/4	3,427.95	3/4	3,069.31	3/4	2,709.46	3/4	2,349.09		
2	2	4,380.86	2	4,206.65	2	4,036.41	2	3,848.08	2	3,654.01	2	3,420.47	2	3,061.82	2	2,701.95	2	2,341.58		
1/4	1/4	4,377.98	1/4	4,203.31	1/4	4,032.68	1/4	3,844.04	1/4	3,649.97	1/4	3,413.00	1/4	3,054.32	1/4	2,694.45	1/4	2,334.07		
1/2	1/2	4,374.13	1/2	4,199.94	1/2	4,028.91	1/2	3,840.00	1/2	3,645.93	1/2	3,405.52	1/2	3,046.83	1/2	2,686.94	1/2	2,326.56		
3/4	3/4	4,370.27	3/4	4,196.57	3/4	4,025.15	3/4	3,835.95	3/4	3,641.88	3/4	3,398.05	3/4	3,039.34	3/4	2,679.43	3/4	2,319.06		
3	3	4,366.42	3	4,193.20	3	4,021.38	3	3,831.91	3	3,637.84	3	3,390.57	3	3,031.84	3	2,671.92	3	2,311.55		
1/4	1/4	4,362.56	1/4	4,189.83	1/4	4,017.61	1/4	3,827.87	1/4	3,633.80	1/4	3,383.10	1/4	3,024.35	1/4	2,664.42	1/4	2,304.04		
1/2	1/2	4,358.57	1/2	4,186.42	1/2	4,013.82	1/2	3,823.82	1/2	3,629.75	1/2	3,375.62	1/2	3,016.85	1/2	2,656.91	1/2	2,296.53		
3/4	3/4	4,354.58	3/4	4,183.02	3/4	4,010.02	3/4	3,819.78	3/4	3,625.71	3/4	3,368.15	3/4	3,009.36	3/4	2,649.40	3/4	2,289.02		
4	4	4,350.59	4	4,179.62	4	4,006.22	4	3,815.74	4	3,621.67	4	3,360.67	4	3,001.87	4	2,641.90	4	2,281.51		
1/4	1/4	4,346.60	1/4	4,176.21	1/4	4,002.43	1/4	3,811.69	1/4	3,617.63	1/4	3,353.20	1/4	2,994.37	1/4	2,634.39	1/4	2,274.01		
1/2	1/2	4,342.61	1/2	4,172.78	1/2	3,998.60	1/2	3,807.65	1/2	3,613.58	1/2	3,345.72	1/2	2,986.88	1/2	2,626.88	1/2	2,266.50		
3/4	3/4	4,338.62	3/4	4,169.34	3/4	3,994.77	3/4	3,803.61	3/4	3,609.54	3/4	3,338.25	3/4	2,979.38	3/4	2,619.38	3/4	2,258.99		
5	5	4,334.63	5	4,165.90	5	3,990.94	5	3,799.56	5	3,605.50	5	3,330.77	5	2,971.89	5	2,611.87	5	2,251.48		
1/4	1/4	4,330.64	1/4	4,162.46	1/4	3,987.11	1/4	3,795.52	1/4	3,601.45	1/4	3,323.30	1/4	2,964.40	1/4	2,604.37	1/4	2,243.97		
1/2	1/2	4,326.65	1/2	4,159.00	1/2	3,983.24	1/2	3,791.48	1/2	3,597.41	1/2	3,315.84	1/2	2,956.90	1/2	2,596.86	1/2	2,236.46		
3/4	3/4	4,322.66	3/4	4,155.53	3/4	3,979.38	3/4	3,787.44	3/4	3,593.37	3/4	3,308.38	3/4	2,949.41	3/4	2,589.35	3/4	2,228.96		
6	6	4,318.67	6	4,152.06	6	3,975.52	6	3,783.39	6	3,589.32	6	3,300.92	6	2,941.91	6	2,581.84	6	2,221.45		
1/4	1/4	4,314.68	1/4	4,148.60	1/4	3,971.65	1/4	3,779.35	1/4	3,585.28	1/4	3,293.46	1/4	2,934.42	1/4	2,574.33	1/4	2,213.94		
1/2	1/2	4,310.69	1/2	4,145.10	1/2	3,967.76	1/2	3,775.31	1/2	3,581.24	1/2	3,286.00	1/2	2,926.93	1/2	2,566.83	1/2	2,206.43		
3/4	3/4	4,306.70	3/4	4,141.60	3/4	3,963.86	3/4	3,771.26	3/4	3,577.19	3/4	3,278.54	3/4	2,919.43	3/4	2,559.32	3/4	2,198.92		
7	7	4,302.71	7	4,138.10	7	3,959.97	7	3,767.22	7	3,573.15	7	3,271.08	7	2,911.94	7	2,551.81	7	2,191.42		
1/4	1/4	4,298.72	1/4	4,134.60	1/4	3,956.08	1/4	3,763.18	1/4	3,569.11	1/4	3,263.62	1/4	2,904.44	1/4	2,544.30	1/4	2,183.91		
1/2	1/2	4,294.78	1/2	4,131.06	1/2	3,952.15	1/2	3,759.13	1/2	3,565.07	1/2	3,256.16	1/2	2,896.95	1/2	2,536.79	1/2	2,176.40		
3/4	3/4	4,290.84	3/4	4,127.51	3/4	3,948.23	3/4	3,755.09	3/4	3,561.02	3/4	3,248.70	3/4	2,889.46	3/4	2,529.28	3/4	2,168.89		
8	8	4,286.91	8	4,123.96	8	3,944.31	8	3,751.05	8	3,556.98	8	3,241.24	8	2,881.96	8	2,521.78	8	2,161.38		
1/4	1/4	4,282.97	1/4	4,120.42	1/4	3,940.38	1/4	3,747.00	1/4	3,552.94	1/4	3,233.78	1/4	2,874.47	1/4	2,514.27	1/4	2,153.87		
1/2	1/2	4,279.44	1/2	4,116.84	1/2	3,936.43	1/2	3,742.96	1/2	3,548.89	1/2	3,226.32	1/2	2,866.97	1/2	2,506.76	1/2	2,146.37		
3/4	3/4	4,275.91	3/4	4,113.26	3/4	3,932.48	3/4	3,738.92	3/4	3,544.85	3/4	3,218.87	3/4	2,859.48	3/4	2,499.25	3/4	2,138.86		
9	9	4,272.39	9	4,109.68	9	3,928.52	9	3,734.88	9	3,540.81	9	3,211.41	9	2,851.99	9	2,491.74	9	2,131.35		
1/4	1/4	4,268.86	1/4	4,106.10	1/4	3,924.57	1/4	3,730.83	1/4	3,536.76	1/4	3,203.95	1/4	2,844.49	1/4	2,484.24	1/4	2,123.84		
1/2	1/2	4,265.65	1/2	4,102.49	1/2	3,920.58	1/2	3,726.79	1/2	3,532.72	1/2	3,196.49	1/2	2,837.00	1/2	2,476.73	1/2	2,116.33		
3/4	3/4	4,262.43	3/4	4,098.88	3/4	3,916.59	3/4	3,722.75	3/4	3,528.68	3/4	3,189.03	3/4	2,829.50	3/4	2,469.22	3/4	2,108.83		
10	10	4,259.22	10	4,095.28	10	3,912.61	10	3,718.70	10	3,524.63	10	3,181.57	10	2,822.01	10	2,461.71	10	2,101.32		
1/4	1/4	4,256.01	1/4	4,091.67	1/4	3,908.62	1/4	3,714.66	1/4	3,520.59	1/4	3,174.11	1/4	2,814.52	1/4	2,454.20	1/4	2,093.81		
1/2	1/2	4,252.76	1/2	4,088.03	1/2	3,904.60	1/2	3,710.62	1/2	3,516.12	1/2	3,166.64	1/2	2,807.02	1/2	2,446.69	1/2	2,086.30		
3/4	3/4	4,249.52	3/4	4,084.39	3/4	3,900.58	3/4	3,706.57	3/4	3,511.65	3/4	3,159.18	3/4	2,799.52	3/4	2,439.19	3/4	2,078.79		
11	11	4,246.27	11	4,080.75	11	3,896.56	11	3,702.53	11	3,507.18	11	3,151.72	11	2,792.03	11	2,431.68	11	2,071.28		
1/4	1/4	4,243.02	1/4	4,077.11	1/4	3,892.54	1/4	3,698.49	1/4	3,502.70	1/4	3,144.25	1/4	2,784.53	1/4	2,424.17	1/4	2,063.78		
1/2	1/2	4,239.74	1/2	4,073.44	1/2	3,888.50	1/2	3,694.44	1/2	3,495.23	1/2	3,136.76	1/2	2,777.02	1/2	2,416.66	1/2	2,056.27		
3/4	3/4	4,236.46	3/4	4,069.77	3/4	3,884.46	3/4	3,690.40	3/4	3,487.75	3/4	3,129.26	3/4	2,769.52	3/4	2,409.15	3/4	2,048.76		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "EMS 514B"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,033.75	1/4	1,673.27	1/4	1,312.79	1/4	952.63	1/4	592.23	1/4	235.38	1/4		1/4		1/4		1/4		1/4	
1/2	2,026.24	1/2	1,665.76	1/2	1,305.28	1/2	945.13	1/2	584.72	1/2	228.02	1/2		1/2		1/2		1/2		1/2	
3/4	2,018.73	3/4	1,658.25	3/4	1,297.77	3/4	937.63	3/4	577.21	3/4	220.66	3/4		3/4		3/4		3/4		3/4	
1	2,011.22	1	1,650.74	1	1,290.26	1	930.13	1	569.70	1	213.30	1		1		1		1		1	
1/4	2,003.71	1/4	1,643.23	1/4	1,282.75	1/4	922.63	1/4	562.19	1/4	205.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,996.20	1/2	1,635.72	1/2	1,275.24	1/2	915.12	1/2	554.68	1/2	198.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,988.69	3/4	1,628.21	3/4	1,267.73	3/4	907.62	3/4	547.17	3/4	191.18	3/4		3/4		3/4		3/4		3/4	
2	1,981.18	2	1,620.70	2	1,260.22	2	900.12	2	539.66	2	183.80	2		2		2		2		2	
1/4	1,973.67	1/4	1,613.19	1/4	1,252.71	1/4	892.61	1/4	532.15	1/4	176.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,966.16	1/2	1,605.68	1/2	1,245.20	1/2	885.10	1/2	524.64	1/2	168.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,958.65	3/4	1,598.17	3/4	1,237.69	3/4	877.59	3/4	517.13	3/4	161.43	3/4		3/4		3/4		3/4		3/4	
3	1,951.14	3	1,590.66	3	1,230.18	3	870.08	3	509.62	3	153.94	3		3		3		3		3	
1/4	1,943.63	1/4	1,583.15	1/4	1,222.67	1/4	862.57	1/4	502.11	1/4	146.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,936.12	1/2	1,575.64	1/2	1,215.16	1/2	855.06	1/2	494.60	1/2	138.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,928.61	3/4	1,568.13	3/4	1,207.66	3/4	847.56	3/4	487.09	3/4	131.45	3/4		3/4		3/4		3/4		3/4	
4	1,921.10	4	1,560.62	4	1,200.15	4	840.05	4	479.58	4	123.96	4		4		4		4		4	
1/4	1,913.59	1/4	1,553.11	1/4	1,192.65	1/4	832.54	1/4	472.07	1/4	116.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,906.08	1/2	1,545.60	1/2	1,185.15	1/2	825.03	1/2	464.56	1/2	109.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,898.57	3/4	1,538.09	3/4	1,177.64	3/4	817.52	3/4	457.05	3/4	101.63	3/4		3/4		3/4		3/4		3/4	
5	1,891.06	5	1,530.58	5	1,170.14	5	810.01	5	449.54	5	94.21	5		5		5		5		5	
1/4	1,883.55	1/4	1,523.07	1/4	1,162.64	1/4	802.50	1/4	442.03	1/4	86.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,876.04	1/2	1,515.56	1/2	1,155.14	1/2	794.99	1/2	434.54	1/2	80.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,868.53	3/4	1,508.05	3/4	1,147.64	3/4	787.48	3/4	427.05	3/4	73.37	3/4		3/4		3/4		3/4		3/4	
6	1,861.02	6	1,500.54	6	1,140.14	6	779.97	6	419.56	6	66.66	6		6		6		6		6	
1/4	1,853.51	1/4	1,493.03	1/4	1,132.64	1/4	772.46	1/4	412.07	1/4	59.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,846.00	1/2	1,485.52	1/2	1,125.14	1/2	764.95	1/2	404.71	1/2	54.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,838.49	3/4	1,478.01	3/4	1,117.64	3/4	757.44	3/4	397.34	3/4	49.02	3/4		3/4		3/4		3/4		3/4	
7	1,830.98	7	1,470.50	7	1,110.14	7	749.93	7	389.98	7	43.56	7		7		7		7		7	
1/4	1,823.47	1/4	1,462.99	1/4	1,102.64	1/4	742.42	1/4	382.62	1/4	38.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,815.96	1/2	1,455.48	1/2	1,095.14	1/2	734.91	1/2	375.26	1/2	33.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,808.45	3/4	1,447.97	3/4	1,087.64	3/4	727.40	3/4	367.90	3/4	29.68	3/4		3/4		3/4		3/4		3/4	
8	1,800.94	8	1,440.46	8	1,080.14	8	719.89	8	360.53	8	25.47	8		8		8		8		8	
1/4	1,793.43	1/4	1,432.95	1/4	1,072.64	1/4	712.38	1/4	353.17	1/4	21.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,785.92	1/2	1,425.44	1/2	1,065.14	1/2	704.87	1/2	345.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,778.41	3/4	1,417.93	3/4	1,057.64	3/4	697.36	3/4	338.45	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,770.90	9	1,410.42	9	1,050.14	9	689.85	9	331.09	9		9		9		9		9		9	
1/4	1,763.39	1/4	1,402.91	1/4	1,042.64	1/4	682.34	1/4	323.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,755.88	1/2	1,395.40	1/2	1,035.14	1/2	674.83	1/2	316.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,748.37	3/4	1,387.89	3/4	1,027.63	3/4	667.32	3/4	309.00	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,740.86	10	1,380.38	10	1,020.13	10	659.81	10	301.64	10		10		10		10		10		10	
1/4	1,733.35	1/4	1,372.87	1/4	1,012.63	1/4	652.30	1/4	294.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,725.84	1/2	1,365.36	1/2	1,005.13	1/2	644.79	1/2	286.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,718.33	3/4	1,357.85	3/4	997.63	3/4	637.28	3/4	279.55	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,710.82	11	1,350.34	11	990.13	11	629.77	11	272.19	11		11		11		11		11		11	
1/4	1,703.31	1/4	1,342.83	1/4	982.63	1/4	622.26	1/4	264.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,695.80	1/2	1,335.32	1/2	975.13	1/2	614.75	1/2	257.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,688.29	3/4	1,327.81	3/4	967.63	3/4	607.24	3/4	250.11	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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





# BARGE "EMS 514B"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,206.85	0	4,041.91	0	3,858.34	0	3,665.31	0	3,470.55	0	3,113.37	0	2,755.12	0	2,397.74
1/4		1/4		1/4	4,203.59	1/4	4,038.26	1/4	3,854.32	1/4	3,661.29	1/4	3,463.10	1/4	3,105.91	1/4	2,747.65	1/4	2,390.26
1/2		1/2		1/2	4,200.33	1/2	4,034.61	1/2	3,850.31	1/2	3,657.27	1/2	3,455.65	1/2	3,098.44	1/2	2,740.18	1/2	2,382.78
3/4		3/4		3/4	4,197.07	3/4	4,030.96	3/4	3,846.29	3/4	3,653.25	3/4	3,448.20	3/4	3,090.97	3/4	2,732.71	3/4	2,375.29
1	1	1	1	1	4,193.81	1	4,027.31	1	3,842.27	1	3,649.22	1	3,440.75	1	3,083.50	1	2,725.24	1	2,367.81
1/4		1/4		1/4	4,357.40	1/4	4,023.63	1/4	3,838.25	1/4	3,645.20	1/4	3,433.30	1/4	3,076.04	1/4	2,717.87	1/4	2,360.33
1/2		1/2		1/2	4,355.76	1/2	4,187.23	1/2	4,019.95	1/2	3,834.23	1/2	3,641.18	1/2	3,068.57	1/2	2,710.50	1/2	2,352.85
3/4		3/4		3/4	4,354.12	3/4	4,183.94	3/4	4,016.27	3/4	3,830.21	3/4	3,637.16	3/4	3,061.11	3/4	2,703.12	3/4	2,345.37
2	2	2	2	2	4,352.48	2	4,180.65	2	4,012.59	2	3,826.19	2	3,633.14	2	3,410.96	2	3,053.64	2	2,337.89
1/4		1/4		1/4	4,349.62	1/4	4,177.33	1/4	4,008.87	1/4	3,822.17	1/4	3,629.11	1/4	3,403.51	1/4	3,046.18	1/4	2,330.40
1/2		1/2		1/2	4,346.77	1/2	4,174.01	1/2	4,005.15	1/2	3,818.14	1/2	3,625.09	1/2	3,396.06	1/2	3,038.72	1/2	2,322.92
3/4		3/4		3/4	4,343.91	3/4	4,170.69	3/4	4,001.44	3/4	3,814.12	3/4	3,621.07	3/4	3,388.61	3/4	3,031.26	3/4	2,315.44
3	3	3	3	3	4,341.05	3	4,167.37	3	3,997.72	3	3,810.10	3	3,617.05	3	3,381.16	3	3,023.80	3	2,307.96
1/4		1/4		1/4	4,337.22	1/4	4,164.02	1/4	3,993.98	1/4	3,806.08	1/4	3,613.03	1/4	3,373.71	1/4	3,016.34	1/4	2,658.88
1/2		1/2		1/2	4,333.38	1/2	4,160.67	1/2	3,990.23	1/2	3,802.06	1/2	3,609.00	1/2	3,366.27	1/2	3,008.88	1/2	2,651.51
3/4		3/4		3/4	4,329.55	3/4	4,157.32	3/4	3,986.49	3/4	3,798.03	3/4	3,604.98	3/4	3,358.82	3/4	3,001.42	3/4	2,644.13
4	4	4	4	4	4,325.72	4	4,153.97	4	3,982.74	4	3,794.01	4	3,600.96	4	3,351.37	4	2,993.96	4	2,636.76
1/4		1/4		1/4	4,321.75	1/4	4,150.59	1/4	3,978.97	1/4	3,789.99	1/4	3,596.94	1/4	3,343.92	1/4	2,986.50	1/4	2,629.37
1/2		1/2		1/2	4,317.78	1/2	4,147.20	1/2	3,975.19	1/2	3,785.97	1/2	3,592.92	1/2	3,336.47	1/2	2,979.04	1/2	2,621.98
3/4		3/4		3/4	4,313.81	3/4	4,143.82	3/4	3,971.42	3/4	3,781.95	3/4	3,588.89	3/4	3,329.02	3/4	2,971.58	3/4	2,614.60
5	5	5	5	5	4,309.84	5	4,140.44	5	3,967.64	5	3,777.92	5	3,584.87	5	3,321.57	5	2,964.12	5	2,607.21
1/4		1/4		1/4	4,305.87	1/4	4,137.02	1/4	3,963.83	1/4	3,773.90	1/4	3,580.85	1/4	3,314.13	1/4	2,956.66	1/4	2,599.73
1/2		1/2		1/2	4,301.90	1/2	4,133.60	1/2	3,960.02	1/2	3,769.88	1/2	3,576.83	1/2	3,306.68	1/2	2,949.20	1/2	2,592.25
3/4		3/4		3/4	4,297.93	3/4	4,130.19	3/4	3,956.21	3/4	3,765.86	3/4	3,572.81	3/4	3,299.23	3/4	2,941.74	3/4	2,584.77
6	6	6	6	6	4,293.97	6	4,126.77	6	3,952.40	6	3,761.84	6	3,568.79	6	3,291.79	6	2,934.28	6	2,577.29
1/4		1/4		1/4	4,290.00	1/4	4,123.32	1/4	3,948.56	1/4	3,757.81	1/4	3,564.76	1/4	3,284.35	1/4	2,926.82	1/4	2,569.81
1/2		1/2		1/2	4,286.03	1/2	4,119.88	1/2	3,944.72	1/2	3,753.79	1/2	3,560.74	1/2	3,276.92	1/2	2,919.36	1/2	2,562.33
3/4		3/4		3/4	4,282.06	3/4	4,116.43	3/4	3,940.87	3/4	3,749.77	3/4	3,556.72	3/4	3,269.49	3/4	2,911.90	3/4	2,554.85
7	7	7	7	7	4,278.09	7	4,112.98	7	3,937.03	7	3,745.75	7	3,552.70	7	3,262.05	7	2,904.44	7	2,547.37
1/4		1/4		1/4	4,274.12	1/4	4,109.50	1/4	3,933.16	1/4	3,741.73	1/4	3,548.68	1/4	3,254.62	1/4	2,896.98	1/4	2,539.89
1/2		1/2		1/2	4,270.15	1/2	4,106.03	1/2	3,929.29	1/2	3,737.71	1/2	3,544.65	1/2	3,247.19	1/2	2,889.52	1/2	2,532.41
3/4		3/4		3/4	4,266.18	3/4	4,102.55	3/4	3,925.41	3/4	3,733.68	3/4	3,540.63	3/4	3,239.75	3/4	2,882.06	3/4	2,524.92
8	8	8	8	8	4,262.21	8	4,099.07	8	3,921.54	8	3,729.66	8	3,536.61	8	3,232.32	8	2,874.60	8	2,517.44
1/4		1/4		1/4	4,258.30	1/4	4,095.54	1/4	3,917.64	1/4	3,725.64	1/4	3,532.59	1/4	3,224.89	1/4	2,867.13	1/4	2,509.96
1/2		1/2		1/2	4,254.38	1/2	4,092.02	1/2	3,913.74	1/2	3,721.62	1/2	3,528.57	1/2	3,217.45	1/2	2,859.67	1/2	2,502.48
3/4		3/4		3/4	4,250.46	3/4	4,088.49	3/4	3,909.83	3/4	3,717.60	3/4	3,524.54	3/4	3,210.02	3/4	2,852.20	3/4	2,495.00
9	9	9	9	9	4,246.55	9	4,084.97	9	3,905.93	9	3,713.57	9	3,520.52	9	3,202.59	9	2,844.73	9	2,487.52
1/4		1/4		1/4	4,243.04	1/4	4,081.41	1/4	3,902.00	1/4	3,709.55	1/4	3,516.50	1/4	3,195.16	1/4	2,837.26	1/4	2,480.03
1/2		1/2		1/2	4,239.53	1/2	4,077.85	1/2	3,898.07	1/2	3,705.53	1/2	3,512.48	1/2	3,187.72	1/2	2,829.80	1/2	2,472.55
3/4		3/4		3/4	4,236.03	3/4	4,074.29	3/4	3,894.13	3/4	3,701.51	3/4	3,508.46	3/4	3,180.29	3/4	2,822.33	3/4	2,465.07
10	10	10	10	10	4,232.52	10	4,070.73	10	3,890.20	10	3,697.49	10	3,504.43	10	3,172.86	10	2,814.86	10	2,457.59
1/4		1/4		1/4	4,229.33	1/4	4,067.15	1/4	3,886.23	1/4	3,693.46	1/4	3,500.41	1/4	3,165.42	1/4	2,807.39	1/4	2,450.11
1/2		1/2		1/2	4,226.14	1/2	4,063.56	1/2	3,882.27	1/2	3,689.44	1/2	3,496.39	1/2	3,157.99	1/2	2,799.93	1/2	2,442.63
3/4		3/4		3/4	4,222.94	3/4	4,059.97	3/4	3,878.30	3/4	3,685.42	3/4	3,492.37	3/4	3,150.56	3/4	2,792.46	3/4	2,435.15
11	11	11	11	11	4,219.75	11	4,056.38	11	3,874.33	11	3,681.40	11	3,488.35	11	3,143.12	11	2,784.99	11	2,427.66
1/4		1/4		1/4	4,216.52	1/4	4,052.76	1/4	3,870.34	1/4	3,677.38	1/4	3,483.90	1/4	3,135.69	1/4	2,777.52	1/4	2,420.18
1/2		1/2		1/2	4,213.30	1/2	4,049.15	1/2	3,866.34	1/2	3,673.35	1/2	3,479.45	1/2	3,128.25	1/2	2,770.05	1/2	2,412.70
3/4		3/4		3/4	4,210.07	3/4	4,045.53	3/4	3,862.34	3/4	3,669.33	3/4	3,475.00	3/4	3,120.81	3/4	2,762.59	3/4	2,405.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "EMS 514B"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,038.63	0	1,679.44	0	1,321.51	0	972.07	0	620.27	0	264.00	0		0		0		0	
1/4	2,031.15	1/4	1,671.95	1/4	1,314.08	1/4	964.92	1/4	612.79	1/4	256.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,023.66	1/2	1,664.47	1/2	1,306.66	1/2	957.78	1/2	605.30	1/2	249.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,016.18	3/4	1,656.99	3/4	1,299.24	3/4	950.63	3/4	597.81	3/4	241.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,008.70	1	1,649.50	1	1,291.82	1	943.48	1	590.33	1	234.65	1	1	1	1	1	1	1	1
1/4	2,001.22	1/4	1,642.02	1/4	1,284.40	1/4	936.33	1/4	582.84	1/4	227.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,993.74	1/2	1,634.54	1/2	1,276.98	1/2	929.18	1/2	575.36	1/2	219.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,986.25	3/4	1,627.06	3/4	1,269.56	3/4	922.03	3/4	567.87	3/4	212.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,978.77	2	1,619.57	2	1,262.13	2	914.89	2	560.39	2	205.30	2	2	2	2	2	2	2	2
1/4	1,971.29	1/4	1,612.09	1/4	1,254.71	1/4	907.73	1/4	552.90	1/4	197.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,963.80	1/2	1,604.61	1/2	1,247.29	1/2	900.58	1/2	545.42	1/2	190.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,956.32	3/4	1,597.12	3/4	1,239.88	3/4	893.42	3/4	537.93	3/4	183.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,948.84	3	1,589.64	3	1,232.46	3	886.27	3	530.45	3	175.88	3	3	3	3	3	3	3	3
1/4	1,941.35	1/4	1,582.16	1/4	1,225.05	1/4	879.10	1/4	522.96	1/4	168.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,933.87	1/2	1,574.67	1/2	1,217.65	1/2	871.92	1/2	515.48	1/2	160.94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,926.39	3/4	1,567.19	3/4	1,210.24	3/4	864.75	3/4	507.99	3/4	153.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,918.90	4	1,559.71	4	1,202.84	4	857.58	4	500.51	4	146.00	4	4	4	4	4	4	4	4
1/4	1,911.42	1/4	1,552.22	1/4	1,195.43	1/4	850.40	1/4	493.02	1/4	138.52	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,903.94	1/2	1,544.74	1/2	1,188.02	1/2	843.22	1/2	485.54	1/2	131.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,896.45	3/4	1,537.26	3/4	1,180.62	3/4	836.04	3/4	478.05	3/4	123.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,888.97	5	1,529.77	5	1,173.21	5	828.87	5	470.56	5	116.09	5	5	5	5	5	5	5	5
1/4	1,881.49	1/4	1,522.29	1/4	1,165.82	1/4	821.63	1/4	463.08	1/4	108.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,874.00	1/2	1,514.81	1/2	1,158.42	1/2	814.39	1/2	455.59	1/2	101.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,866.52	3/4	1,507.32	3/4	1,151.03	3/4	807.15	3/4	448.11	3/4	93.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,859.04	6	1,499.84	6	1,143.63	6	799.92	6	440.62	6	86.53	6	6	6	6	6	6	6	6
1/4	1,851.55	1/4	1,492.36	1/4	1,136.48	1/4	792.43	1/4	433.16	1/4	79.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,844.07	1/2	1,484.89	1/2	1,129.33	1/2	784.95	1/2	425.69	1/2	73.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,836.59	3/4	1,477.41	3/4	1,122.18	3/4	777.46	3/4	418.22	3/4	66.49	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,829.10	7	1,469.94	7	1,115.04	7	769.98	7	410.76	7	59.81	7	7	7	7	7	7	7	7
1/4	1,821.62	1/4	1,462.51	1/4	1,107.89	1/4	762.49	1/4	403.42	1/4	54.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,814.14	1/2	1,455.09	1/2	1,100.74	1/2	755.01	1/2	396.08	1/2	48.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,806.65	3/4	1,447.67	3/4	1,093.59	3/4	747.52	3/4	388.74	3/4	43.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,799.17	8	1,440.25	8	1,086.44	8	740.04	8	381.41	8	38.04	8	8	8	8	8	8	8	8
1/4	1,791.69	1/4	1,432.83	1/4	1,079.30	1/4	732.55	1/4	374.07	1/4	33.84	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,784.20	1/2	1,425.41	1/2	1,072.15	1/2	725.06	1/2	366.73	1/2	29.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,776.72	3/4	1,417.99	3/4	1,065.00	3/4	717.58	3/4	359.39	3/4	25.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,769.24	9	1,410.56	9	1,057.85	9	710.09	9	352.06	9	21.23	9	9	9	9	9	9	9	9
1/4	1,761.75	1/4	1,403.14	1/4	1,050.70	1/4	702.61	1/4	344.72	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,754.27	1/2	1,395.72	1/2	1,043.55	1/2	695.12	1/2	337.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,746.79	3/4	1,388.30	3/4	1,036.41	3/4	687.64	3/4	330.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,739.30	10	1,380.88	10	1,029.26	10	680.15	10	322.70	10		10	10	10	10	10	10	10	10
1/4	1,731.82	1/4	1,373.46	1/4	1,022.11	1/4	672.67	1/4	315.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,724.34	1/2	1,366.03	1/2	1,014.96	1/2	665.18	1/2	308.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,716.85	3/4	1,358.61	3/4	1,007.81	3/4	657.70	3/4	300.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,709.37	11	1,351.19	11	1,000.67	11	650.21	11	293.35	11		11	11	11	11	11	11	11	11
1/4	1,701.89	1/4	1,343.77	1/4	993.52	1/4	642.73	1/4	286.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,694.40	1/2	1,336.35	1/2	986.37	1/2	635.24	1/2	278.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,686.92	3/4	1,328.93	3/4	979.22	3/4	627.76	3/4	271.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/18/2020 JS  
CALCULATED: 03/18/2020 CL  
PRINTED: 03/18/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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