



BARGE "EMS 515B"

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	- 03-0/8	03-0/8
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	- 02-1/2	02-1/2	- 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 31, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 515B"

1 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	21.42	0	355.77	0	717.61	0	1,080.47	0	1,443.32	0	1,806.43	0	2,169.53	0	2,532.64	0	2,895.65	0	3,258.62
1/4	25.66	1/4	363.19	1/4	725.17	1/4	1,088.02	1/4	1,450.89	1/4	1,813.99	1/4	2,177.10	1/4	2,540.20	1/4	2,903.21	1/4	3,266.18
1/2	29.90	1/2	370.60	1/2	732.74	1/2	1,095.57	1/2	1,458.45	1/2	1,821.56	1/2	2,184.66	1/2	2,547.77	1/2	2,910.77	1/2	3,273.74
3/4	34.14	3/4	378.02	3/4	740.30	3/4	1,103.12	3/4	1,466.02	3/4	1,829.12	3/4	2,192.23	3/4	2,555.33	3/4	2,918.33	3/4	3,281.31
1	38.38	1	385.44	1	747.86	1	1,110.68	1	1,473.58	1	1,836.69	1	2,199.79	1	2,562.90	1	2,925.90	1	3,288.87
1/4	43.88	1/4	392.85	1/4	755.43	1/4	1,118.23	1/4	1,481.14	1/4	1,844.25	1/4	2,207.36	1/4	2,570.46	1/4	2,933.46	1/4	3,296.43
1/2	49.38	1/2	400.27	1/2	762.99	1/2	1,125.78	1/2	1,488.71	1/2	1,851.81	1/2	2,214.92	1/2	2,578.03	1/2	2,941.02	1/2	3,303.99
3/4	54.88	3/4	407.69	3/4	770.56	3/4	1,133.33	3/4	1,496.27	3/4	1,859.38	3/4	2,222.49	3/4	2,585.59	3/4	2,948.58	3/4	3,311.55
2	60.38	2	415.10	2	778.12	2	1,140.89	2	1,503.84	2	1,866.94	2	2,230.05	2	2,593.16	2	2,956.14	2	3,319.12
1/4	67.14	1/4	422.65	1/4	785.69	1/4	1,148.44	1/4	1,511.40	1/4	1,874.51	1/4	2,237.61	1/4	2,600.72	1/4	2,963.71	1/4	3,326.68
1/2	73.90	1/2	430.20	1/2	793.25	1/2	1,155.99	1/2	1,518.97	1/2	1,882.07	1/2	2,245.18	1/2	2,608.28	1/2	2,971.27	1/2	3,334.24
3/4	80.66	3/4	437.74	3/4	800.82	3/4	1,163.54	3/4	1,526.53	3/4	1,889.64	3/4	2,252.74	3/4	2,615.85	3/4	2,978.83	3/4	3,341.80
3	87.42	3	445.29	3	808.38	3	1,171.10	3	1,534.10	3	1,897.20	3	2,260.31	3	2,623.41	3	2,986.39	3	3,349.36
1/4	94.90	1/4	452.85	1/4	815.94	1/4	1,178.65	1/4	1,541.66	1/4	1,904.77	1/4	2,267.87	1/4	2,630.98	1/4	2,993.95	1/4	3,356.92
1/2	102.37	1/2	460.42	1/2	823.51	1/2	1,186.20	1/2	1,549.23	1/2	1,912.33	1/2	2,275.44	1/2	2,638.54	1/2	3,001.52	1/2	3,364.49
3/4	109.84	3/4	467.98	3/4	831.07	3/4	1,193.75	3/4	1,556.79	3/4	1,919.90	3/4	2,283.00	3/4	2,646.10	3/4	3,009.08	3/4	3,372.05
4	117.31	4	475.55	4	838.64	4	1,201.30	4	1,564.36	4	1,927.46	4	2,290.57	4	2,653.67	4	3,016.64	4	3,379.61
1/4	124.86	1/4	483.11	1/4	846.20	1/4	1,208.86	1/4	1,571.92	1/4	1,935.03	1/4	2,298.13	1/4	2,661.23	1/4	3,024.20	1/4	3,387.17
1/2	132.41	1/2	490.68	1/2	853.77	1/2	1,216.41	1/2	1,579.49	1/2	1,942.59	1/2	2,305.70	1/2	2,668.79	1/2	3,031.76	1/2	3,394.73
3/4	139.96	3/4	498.24	3/4	861.33	3/4	1,223.96	3/4	1,587.05	3/4	1,950.16	3/4	2,313.26	3/4	2,676.35	3/4	3,039.32	3/4	3,402.30
5	147.51	5	505.80	5	868.90	5	1,231.51	5	1,594.62	5	1,957.72	5	2,320.83	5	2,683.92	5	3,046.89	5	3,409.86
1/4	155.06	1/4	513.37	1/4	876.46	1/4	1,239.08	1/4	1,602.18	1/4	1,965.29	1/4	2,328.39	1/4	2,691.48	1/4	3,054.45	1/4	3,417.42
1/2	162.61	1/2	520.93	1/2	884.02	1/2	1,246.64	1/2	1,609.74	1/2	1,972.85	1/2	2,335.96	1/2	2,699.04	1/2	3,062.01	1/2	3,424.98
3/4	170.16	3/4	528.50	3/4	891.59	3/4	1,254.20	3/4	1,617.31	3/4	1,980.41	3/4	2,343.52	3/4	2,706.60	3/4	3,069.57	3/4	3,432.54
6	177.70	6	536.06	6	899.15	6	1,261.77	6	1,624.87	6	1,987.98	6	2,351.08	6	2,714.16	6	3,077.13	6	3,440.11
1/4	185.14	1/4	543.63	1/4	906.72	1/4	1,269.33	1/4	1,632.44	1/4	1,995.54	1/4	2,358.65	1/4	2,721.72	1/4	3,084.70	1/4	3,447.67
1/2	192.57	1/2	551.19	1/2	914.28	1/2	1,276.90	1/2	1,640.00	1/2	2,003.11	1/2	2,366.21	1/2	2,729.29	1/2	3,092.26	1/2	3,455.23
3/4	200.00	3/4	558.76	3/4	921.85	3/4	1,284.46	3/4	1,647.57	3/4	2,010.67	3/4	2,373.78	3/4	2,736.85	3/4	3,099.82	3/4	3,462.79
7	207.44	7	566.32	7	929.41	7	1,292.03	7	1,655.13	7	2,018.24	7	2,381.34	7	2,744.41	7	3,107.38	7	3,470.35
1/4	214.85	1/4	573.88	1/4	936.96	1/4	1,299.59	1/4	1,662.70	1/4	2,025.80	1/4	2,388.91	1/4	2,751.97	1/4	3,114.94	1/4	3,477.91
1/2	222.27	1/2	581.45	1/2	944.52	1/2	1,307.16	1/2	1,670.26	1/2	2,033.37	1/2	2,396.47	1/2	2,759.53	1/2	3,122.51	1/2	3,485.48
3/4	229.69	3/4	589.01	3/4	952.07	3/4	1,314.72	3/4	1,677.83	3/4	2,040.93	3/4	2,404.04	3/4	2,767.10	3/4	3,130.07	3/4	3,493.04
8	237.10	8	596.58	8	959.63	8	1,322.29	8	1,685.39	8	2,048.50	8	2,411.60	8	2,774.66	8	3,137.63	8	3,500.60
1/4	244.52	1/4	604.14	1/4	967.18	1/4	1,329.85	1/4	1,692.96	1/4	2,056.06	1/4	2,419.17	1/4	2,782.22	1/4	3,145.19	1/4	3,508.16
1/2	251.94	1/2	611.71	1/2	974.73	1/2	1,337.42	1/2	1,700.52	1/2	2,063.63	1/2	2,426.73	1/2	2,789.78	1/2	3,152.75	1/2	3,515.72
3/4	259.35	3/4	619.27	3/4	982.28	3/4	1,344.98	3/4	1,708.09	3/4	2,071.19	3/4	2,434.30	3/4	2,797.34	3/4	3,160.32	3/4	3,523.29
9	266.77	9	626.83	9	989.84	9	1,352.54	9	1,715.65	9	2,078.76	9	2,441.86	9	2,804.91	9	3,167.88	9	3,530.85
1/4	274.19	1/4	634.40	1/4	997.39	1/4	1,360.11	1/4	1,723.21	1/4	2,086.32	1/4	2,449.43	1/4	2,812.47	1/4	3,175.44	1/4	3,538.41
1/2	281.60	1/2	641.96	1/2	1,004.94	1/2	1,367.67	1/2	1,730.78	1/2	2,093.89	1/2	2,456.99	1/2	2,820.03	1/2	3,183.00	1/2	3,545.97
3/4	289.02	3/4	649.53	3/4	1,012.49	3/4	1,375.24	3/4	1,738.34	3/4	2,101.45	3/4	2,464.56	3/4	2,827.59	3/4	3,190.56	3/4	3,553.53
10	296.44	10	657.09	10	1,020.05	10	1,382.80	10	1,745.91	10	2,109.01	10	2,472.12	10	2,835.15	10	3,198.12	10	3,561.10
1/4	303.85	1/4	664.66	1/4	1,027.60	1/4	1,390.37	1/4	1,753.47	1/4	2,116.58	1/4	2,479.68	1/4	2,842.72	1/4	3,205.69	1/4	3,568.66
1/2	311.27	1/2	672.22	1/2	1,035.15	1/2	1,397.93	1/2	1,761.04	1/2	2,124.14	1/2	2,487.25	1/2	2,850.28	1/2	3,213.25	1/2	3,576.22
3/4	318.69	3/4	679.79	3/4	1,042.70	3/4	1,405.50	3/4	1,768.60	3/4	2,131.71	3/4	2,494.81	3/4	2,857.84	3/4	3,220.81	3/4	3,583.78
11	326.10	11	687.35	11	1,050.26	11	1,413.06	11	1,776.17	11	2,139.27	11	2,502.38	11	2,865.40	11	3,228.37	11	3,591.34
1/4	333.52	1/4	694.91	1/4	1,057.81	1/4	1,420.63	1/4	1,783.73	1/4	2,146.84	1/4	2,509.94	1/4	2,872.96	1/4	3,235.93	1/4	3,598.91
1/2	340.94	1/2	702.48	1/2	1,065.36	1/2	1,428.19	1/2	1,791.30	1/2	2,154.40	1/2	2,517.51	1/2	2,880.52	1/2	3,243.50	1/2	3,606.47
3/4	348.35	3/4	710.04	3/4	1,072.91	3/4	1,435.76	3/4	1,798.86	3/4	2,161.97	3/4	2,525.07	3/4	2,888.09	3/4	3,251.06	3/4	3,614.03

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 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 515B"

1 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	3,621.59	0	3,984.56	0	4,346.85	0	4,695.69	0	5,026.20	0		0		0		0		0	
1/4	3,629.15	1/4	3,992.12	1/4	4,354.29	1/4	4,702.75	1/4	5,033.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,636.71	1/2	3,999.69	1/2	4,361.73	1/2	4,709.81	1/2	5,041.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.28	3/4	4,007.25	3/4	4,369.17	3/4	4,716.87	3/4	5,048.43	3/4		3/4		3/4		3/4		3/4	
1	3,651.84	1	4,014.81	1	4,376.61	1	4,723.93	1	5,055.84	1		1		1		1		1	
1/4	3,659.40	1/4	4,022.37	1/4	4,384.02	1/4	4,730.93	1/4	5,063.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,666.96	1/2	4,029.93	1/2	4,391.44	1/2	4,737.93	1/2	5,070.77	1/2		1/2		1/2		1/2		1/2	
3/4	3,674.52	3/4	4,037.50	3/4	4,398.85	3/4	4,744.93	3/4	5,078.24	3/4		3/4		3/4		3/4		3/4	
2	3,682.09	2	4,045.06	2	4,406.26	2	4,751.94	2	5,085.70	2		2		2		2		2	
1/4	3,689.65	1/4	4,052.62	1/4	4,413.64	1/4	4,758.90	1/4	5,093.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,697.21	1/2	4,060.18	1/2	4,421.02	1/2	4,765.87	1/2	5,100.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,704.77	3/4	4,067.74	3/4	4,428.40	3/4	4,772.84	3/4	5,108.09	3/4		3/4		3/4		3/4		3/4	
3	3,712.33	3	4,075.31	3	4,435.78	3	4,779.80	3	5,115.55	3		3		3		3		3	
1/4	3,719.90	1/4	4,082.87	1/4	4,443.13	1/4	4,786.74	1/4	5,123.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,727.46	1/2	4,090.43	1/2	4,450.48	1/2	4,793.68	1/2	5,130.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,735.02	3/4	4,097.99	3/4	4,457.83	3/4	4,800.62	3/4	5,137.94	3/4		3/4		3/4		3/4		3/4	
4	3,742.58	4	4,105.55	4	4,465.17	4	4,807.55	4	5,145.41	4		4		4		4		4	
1/4	3,750.14	1/4	4,113.11	1/4	4,472.49	1/4	4,814.46	1/4	5,152.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,757.71	1/2	4,120.68	1/2	4,479.80	1/2	4,821.36	1/2	5,160.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,765.27	3/4	4,128.24	3/4	4,487.11	3/4	4,828.26	3/4	5,167.80	3/4		3/4		3/4		3/4		3/4	
5	3,772.83	5	4,135.80	5	4,494.43	5	4,835.17	5	5,175.26	5		5		5		5		5	
1/4	3,780.39	1/4	4,143.36	1/4	4,501.71	1/4	4,842.04	1/4	5,182.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,787.95	1/2	4,150.92	1/2	4,508.99	1/2	4,848.91	1/2	5,189.91	1/2		1/2		1/2		1/2		1/2	
3/4	3,795.51	3/4	4,158.49	3/4	4,516.28	3/4	4,855.78	3/4	5,197.24	3/4		3/4		3/4		3/4		3/4	
6	3,803.08	6	4,166.05	6	4,523.56	6	4,862.65	6	5,204.57	6		6		6		6		6	
1/4	3,810.64	1/4	4,173.61	1/4	4,530.81	1/4	4,869.49	1/4	5,210.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,818.20	1/2	4,181.17	1/2	4,538.07	1/2	4,876.32	1/2	5,217.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,825.76	3/4	4,188.73	3/4	4,545.32	3/4	4,883.16	3/4	5,223.59	3/4		3/4		3/4		3/4		3/4	
7	3,833.32	7	4,196.30	7	4,552.57	7	4,890.00	7	5,229.93	7		7		7		7		7	
1/4	3,840.89	1/4	4,203.86	1/4	4,559.79	1/4	4,896.81	1/4	5,235.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,848.45	1/2	4,211.42	1/2	4,567.01	1/2	4,903.62	1/2	5,240.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,856.01	3/4	4,218.98	3/4	4,574.23	3/4	4,910.43	3/4	5,245.30	3/4		3/4		3/4		3/4		3/4	
8	3,863.57	8	4,226.54	8	4,581.45	8	4,917.24	8	5,250.43	8		8		8		8		8	
1/4	3,871.13	1/4	4,234.10	1/4	4,588.63	1/4	4,924.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,878.70	1/2	4,241.66	1/2	4,595.82	1/2	4,930.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,886.26	3/4	4,249.22	3/4	4,603.01	3/4	4,937.57	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,893.82	9	4,256.78	9	4,610.19	9	4,944.35	9		9		9		9		9		9	
1/4	3,901.38	1/4	4,264.32	1/4	4,617.35	1/4	4,951.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.94	1/2	4,271.86	1/2	4,624.50	1/2	4,957.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.51	3/4	4,279.40	3/4	4,631.66	3/4	4,964.59	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,924.07	10	4,286.93	10	4,638.81	10	4,971.34	10		10		10		10		10		10	
1/4	3,931.63	1/4	4,294.44	1/4	4,645.93	1/4	4,978.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.19	1/2	4,301.95	1/2	4,653.06	1/2	4,984.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,946.75	3/4	4,309.45	3/4	4,660.18	3/4	4,991.48	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,954.31	11	4,316.96	11	4,667.31	11	4,998.19	11		11		11		11		11		11	
1/4	3,961.88	1/4	4,324.43	1/4	4,674.40	1/4	5,005.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.44	1/2	4,331.90	1/2	4,681.50	1/2	5,012.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.00	3/4	4,339.38	3/4	4,688.59	3/4	5,019.20	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

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	21.43	0	356.00	0	718.07	0	1,080.24	0	1,442.36	0	1,805.70	0	2,169.04	0	2,532.38	0	2,895.43	0	3,258.64
1/4	25.67	1/4	363.42	1/4	725.64	1/4	1,087.75	1/4	1,449.93	1/4	1,813.27	1/4	2,176.61	1/4	2,539.95	1/4	2,903.00	1/4	3,266.20
1/2	29.92	1/2	370.84	1/2	733.21	1/2	1,095.27	1/2	1,457.50	1/2	1,820.84	1/2	2,184.18	1/2	2,547.52	1/2	2,910.56	1/2	3,273.77
3/4	34.16	3/4	378.26	3/4	740.78	3/4	1,102.79	3/4	1,465.07	3/4	1,828.41	3/4	2,191.75	3/4	2,555.09	3/4	2,918.13	3/4	3,281.34
1	38.40	1	385.69	1	748.35	1	1,110.31	1	1,472.64	1	1,835.98	1	2,199.32	1	2,562.66	1	2,925.70	1	3,288.90
1/4	43.91	1/4	393.11	1/4	755.92	1/4	1,117.83	1/4	1,480.21	1/4	1,843.55	1/4	2,206.89	1/4	2,570.23	1/4	2,933.26	1/4	3,296.47
1/2	49.41	1/2	400.53	1/2	763.49	1/2	1,125.34	1/2	1,487.77	1/2	1,851.12	1/2	2,214.46	1/2	2,577.80	1/2	2,940.83	1/2	3,304.04
3/4	54.91	3/4	407.95	3/4	771.06	3/4	1,132.86	3/4	1,495.34	3/4	1,858.69	3/4	2,222.03	3/4	2,585.37	3/4	2,948.40	3/4	3,311.60
2	60.42	2	415.37	2	778.63	2	1,140.38	2	1,502.91	2	1,866.25	2	2,229.60	2	2,592.94	2	2,955.96	2	3,319.17
1/4	67.18	1/4	422.92	1/4	786.19	1/4	1,147.90	1/4	1,510.48	1/4	1,873.82	1/4	2,237.17	1/4	2,600.51	1/4	2,963.53	1/4	3,326.74
1/2	73.95	1/2	430.47	1/2	793.76	1/2	1,155.41	1/2	1,518.05	1/2	1,881.39	1/2	2,244.73	1/2	2,608.08	1/2	2,971.10	1/2	3,334.30
3/4	80.72	3/4	438.02	3/4	801.33	3/4	1,162.93	3/4	1,525.62	3/4	1,888.96	3/4	2,252.30	3/4	2,615.65	3/4	2,978.66	3/4	3,341.87
3	87.48	3	445.58	3	808.90	3	1,170.45	3	1,533.19	3	1,896.53	3	2,259.87	3	2,623.21	3	2,986.23	3	3,349.44
1/4	94.96	1/4	453.15	1/4	816.47	1/4	1,177.97	1/4	1,540.76	1/4	1,904.10	1/4	2,267.44	1/4	2,630.78	1/4	2,993.80	1/4	3,357.00
1/2	102.43	1/2	460.71	1/2	824.04	1/2	1,185.49	1/2	1,548.33	1/2	1,911.67	1/2	2,275.01	1/2	2,638.35	1/2	3,001.36	1/2	3,364.57
3/4	109.91	3/4	468.28	3/4	831.61	3/4	1,193.00	3/4	1,555.90	3/4	1,919.24	3/4	2,282.58	3/4	2,645.92	3/4	3,008.93	3/4	3,372.14
4	117.38	4	475.85	4	839.18	4	1,200.52	4	1,563.47	4	1,926.81	4	2,290.15	4	2,653.49	4	3,016.50	4	3,379.70
1/4	124.94	1/4	483.42	1/4	846.75	1/4	1,208.04	1/4	1,571.04	1/4	1,934.38	1/4	2,297.72	1/4	2,661.04	1/4	3,024.06	1/4	3,387.27
1/2	132.49	1/2	490.99	1/2	854.32	1/2	1,215.56	1/2	1,578.61	1/2	1,941.95	1/2	2,305.29	1/2	2,668.60	1/2	3,031.63	1/2	3,394.84
3/4	140.05	3/4	498.56	3/4	861.89	3/4	1,223.07	3/4	1,586.18	3/4	1,949.52	3/4	2,312.86	3/4	2,676.16	3/4	3,039.20	3/4	3,402.40
5	147.60	5	506.13	5	869.46	5	1,230.59	5	1,593.75	5	1,957.09	5	2,320.43	5	2,683.71	5	3,046.76	5	3,409.97
1/4	155.16	1/4	513.70	1/4	877.03	1/4	1,238.12	1/4	1,601.32	1/4	1,964.66	1/4	2,328.00	1/4	2,691.27	1/4	3,054.33	1/4	3,417.54
1/2	162.71	1/2	521.27	1/2	884.60	1/2	1,245.65	1/2	1,608.89	1/2	1,972.23	1/2	2,335.57	1/2	2,698.82	1/2	3,061.90	1/2	3,425.10
3/4	170.27	3/4	528.84	3/4	892.16	3/4	1,253.18	3/4	1,616.46	3/4	1,979.80	3/4	2,343.14	3/4	2,706.37	3/4	3,069.47	3/4	3,432.67
6	177.82	6	536.41	6	899.73	6	1,260.71	6	1,624.03	6	1,987.37	6	2,350.71	6	2,713.93	6	3,077.03	6	3,440.24
1/4	185.26	1/4	543.98	1/4	907.27	1/4	1,268.27	1/4	1,631.60	1/4	1,994.94	1/4	2,358.28	1/4	2,721.48	1/4	3,084.60	1/4	3,447.81
1/2	192.70	1/2	551.55	1/2	914.80	1/2	1,275.84	1/2	1,639.17	1/2	2,002.51	1/2	2,365.85	1/2	2,729.04	1/2	3,092.17	1/2	3,455.37
3/4	200.13	3/4	559.12	3/4	922.34	3/4	1,283.40	3/4	1,646.74	3/4	2,010.08	3/4	2,373.42	3/4	2,736.59	3/4	3,099.73	3/4	3,462.94
7	207.57	7	566.68	7	929.87	7	1,290.97	7	1,654.31	7	2,017.65	7	2,380.99	7	2,744.15	7	3,107.30	7	3,470.51
1/4	214.99	1/4	574.25	1/4	937.39	1/4	1,298.53	1/4	1,661.88	1/4	2,025.22	1/4	2,388.56	1/4	2,751.70	1/4	3,114.87	1/4	3,478.07
1/2	222.42	1/2	581.82	1/2	944.91	1/2	1,306.10	1/2	1,669.45	1/2	2,032.79	1/2	2,396.13	1/2	2,759.26	1/2	3,122.43	1/2	3,485.64
3/4	229.84	3/4	589.39	3/4	952.43	3/4	1,313.67	3/4	1,677.01	3/4	2,040.36	3/4	2,403.70	3/4	2,766.81	3/4	3,130.00	3/4	3,493.21
8	237.26	8	596.96	8	959.95	8	1,321.24	8	1,684.58	8	2,047.93	8	2,411.27	8	2,774.37	8	3,137.57	8	3,500.77
1/4	244.68	1/4	604.53	1/4	967.47	1/4	1,328.81	1/4	1,692.15	1/4	2,055.49	1/4	2,418.84	1/4	2,781.93	1/4	3,145.13	1/4	3,508.34
1/2	252.10	1/2	612.10	1/2	974.99	1/2	1,336.38	1/2	1,699.72	1/2	2,063.06	1/2	2,426.41	1/2	2,789.50	1/2	3,152.70	1/2	3,515.91
3/4	259.52	3/4	619.67	3/4	982.50	3/4	1,343.95	3/4	1,707.29	3/4	2,070.63	3/4	2,433.97	3/4	2,797.06	3/4	3,160.27	3/4	3,523.47
9	266.94	9	627.24	9	990.02	9	1,351.52	9	1,714.86	9	2,078.20	9	2,441.54	9	2,804.63	9	3,167.83	9	3,531.04
1/4	274.37	1/4	634.81	1/4	997.54	1/4	1,359.09	1/4	1,722.43	1/4	2,085.77	1/4	2,449.11	1/4	2,812.19	1/4	3,175.40	1/4	3,538.61
1/2	281.79	1/2	642.38	1/2	1,005.06	1/2	1,366.66	1/2	1,730.00	1/2	2,093.34	1/2	2,456.68	1/2	2,819.76	1/2	3,182.97	1/2	3,546.17
3/4	289.21	3/4	649.95	3/4	1,012.58	3/4	1,374.23	3/4	1,737.57	3/4	2,100.91	3/4	2,464.25	3/4	2,827.33	3/4	3,190.53	3/4	3,553.74
10	296.63	10	657.52	10	1,020.09	10	1,381.80	10	1,745.14	10	2,108.48	10	2,471.82	10	2,834.89	10	3,198.10	10	3,561.31
1/4	304.05	1/4	665.09	1/4	1,027.61	1/4	1,389.37	1/4	1,752.71	1/4	2,116.05	1/4	2,479.39	1/4	2,842.46	1/4	3,205.67	1/4	3,568.87
1/2	311.47	1/2	672.66	1/2	1,035.13	1/2	1,396.94	1/2	1,760.28	1/2	2,123.62	1/2	2,486.96	1/2	2,850.03	1/2	3,213.23	1/2	3,576.44
3/4	318.89	3/4	680.22	3/4	1,042.65	3/4	1,404.51	3/4	1,767.85	3/4	2,131.19	3/4	2,494.53	3/4	2,857.59	3/4	3,220.80	3/4	3,584.01
11	326.31	11	687.79	11	1,050.16	11	1,412.08	11	1,775.42	11	2,138.76	11	2,502.10	11	2,865.16	11	3,228.37	11	3,591.57
1/4	333.74	1/4	695.36	1/4	1,057.68	1/4	1,419.65	1/4	1,782.99	1/4	2,146.33	1/4	2,509.67	1/4	2,872.73	1/4	3,235.93	1/4	3,599.14
1/2	341.16	1/2	702.93	1/2	1,065.20	1/2	1,427.22	1/2	1,790.56	1/2	2,153.90	1/2	2,517.24	1/2	2,880.30	1/2	3,243.50	1/2	3,606.71
3/4	348.58	3/4	710.50	3/4	1,072.72	3/4	1,434.79	3/4	1,798.13	3/4	2,161.47	3/4	2,524.81	3/4	2,887.86	3/4	3,251.07	3/4	3,614.27

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 515B"

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	3,621.84	0	3,985.05	0	4,347.57	0	4,696.63	0	5,027.35	0		0		0		0		0	
1/4	3,629.41	1/4	3,992.61	1/4	4,355.01	1/4	4,703.69	1/4	5,034.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,636.98	1/2	4,000.18	1/2	4,362.46	1/2	4,710.76	1/2	5,042.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,644.54	3/4	4,007.75	3/4	4,369.90	3/4	4,717.82	3/4	5,049.59	3/4		3/4		3/4		3/4		3/4	
1	3,652.11	1	4,015.32	1	4,377.35	1	4,724.89	1	5,057.01	1		1		1		1		1	
1/4	3,659.68	1/4	4,022.88	1/4	4,384.77	1/4	4,731.89	1/4	5,064.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.24	1/2	4,030.45	1/2	4,392.18	1/2	4,738.90	1/2	5,071.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,674.81	3/4	4,038.02	3/4	4,399.60	3/4	4,745.91	3/4	5,079.42	3/4		3/4		3/4		3/4		3/4	
2	3,682.38	2	4,045.58	2	4,407.01	2	4,752.91	2	5,086.88	2		2		2		2		2	
1/4	3,689.94	1/4	4,053.15	1/4	4,414.40	1/4	4,759.88	1/4	5,094.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,697.51	1/2	4,060.72	1/2	4,421.79	1/2	4,766.85	1/2	5,101.82	1/2		1/2		1/2		1/2		1/2	
3/4	3,705.08	3/4	4,068.28	3/4	4,429.17	3/4	4,773.83	3/4	5,109.29	3/4		3/4		3/4		3/4		3/4	
3	3,712.64	3	4,075.85	3	4,436.56	3	4,780.80	3	5,116.76	3		3		3		3		3	
1/4	3,720.21	1/4	4,083.42	1/4	4,443.91	1/4	4,787.74	1/4	5,124.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,727.78	1/2	4,090.98	1/2	4,451.26	1/2	4,794.68	1/2	5,131.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,735.34	3/4	4,098.55	3/4	4,458.62	3/4	4,801.62	3/4	5,139.16	3/4		3/4		3/4		3/4		3/4	
4	3,742.91	4	4,106.12	4	4,465.97	4	4,808.56	4	5,146.63	4		4		4		4		4	
1/4	3,750.48	1/4	4,113.68	1/4	4,473.29	1/4	4,815.47	1/4	5,154.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,758.04	1/2	4,121.25	1/2	4,480.60	1/2	4,822.38	1/2	5,161.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,765.61	3/4	4,128.82	3/4	4,487.92	3/4	4,829.29	3/4	5,169.04	3/4		3/4		3/4		3/4		3/4	
5	3,773.18	5	4,136.38	5	4,495.24	5	4,836.20	5	5,176.50	5		5		5		5		5	
1/4	3,780.74	1/4	4,143.95	1/4	4,502.53	1/4	4,843.07	1/4	5,183.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,788.31	1/2	4,151.52	1/2	4,509.82	1/2	4,849.94	1/2	5,191.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,795.88	3/4	4,159.08	3/4	4,517.10	3/4	4,856.82	3/4	5,198.49	3/4		3/4		3/4		3/4		3/4	
6	3,803.44	6	4,166.65	6	4,524.39	6	4,863.69	6	5,205.82	6		6		6		6		6	
1/4	3,811.01	1/4	4,174.22	1/4	4,531.65	1/4	4,870.53	1/4	5,212.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,818.58	1/2	4,181.78	1/2	4,538.91	1/2	4,877.38	1/2	5,218.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,826.15	3/4	4,189.35	3/4	4,546.16	3/4	4,884.22	3/4	5,224.85	3/4		3/4		3/4		3/4		3/4	
7	3,833.71	7	4,196.92	7	4,553.42	7	4,891.06	7	5,231.20	7		7		7		7		7	
1/4	3,841.28	1/4	4,204.49	1/4	4,560.65	1/4	4,897.88	1/4	5,236.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,848.85	1/2	4,212.05	1/2	4,567.87	1/2	4,904.69	1/2	5,241.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,856.41	3/4	4,219.62	3/4	4,575.09	3/4	4,911.50	3/4	5,246.58	3/4		3/4		3/4		3/4		3/4	
8	3,863.98	8	4,227.19	8	4,582.32	8	4,918.32	8	5,251.71	8		8		8		8		8	
1/4	3,871.55	1/4	4,234.75	1/4	4,589.51	1/4	4,925.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,879.11	1/2	4,242.31	1/2	4,596.70	1/2	4,931.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,886.68	3/4	4,249.88	3/4	4,603.89	3/4	4,938.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,894.25	9	4,257.44	9	4,611.08	9	4,945.45	9		9		9		9		9		9	
1/4	3,901.81	1/4	4,264.98	1/4	4,618.24	1/4	4,952.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.38	1/2	4,272.53	1/2	4,625.40	1/2	4,958.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.95	3/4	4,280.07	3/4	4,632.56	3/4	4,965.70	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,924.51	10	4,287.61	10	4,639.71	10	4,972.45	10		10		10		10		10		10	
1/4	3,932.08	1/4	4,295.13	1/4	4,646.84	1/4	4,979.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.65	1/2	4,302.64	1/2	4,653.97	1/2	4,985.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.21	3/4	4,310.15	3/4	4,661.10	3/4	4,992.61	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,954.78	11	4,317.66	11	4,668.23	11	4,999.32	11		11		11		11		11		11	
1/4	3,962.35	1/4	4,325.14	1/4	4,675.33	1/4	5,006.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.91	1/2	4,332.61	1/2	4,682.43	1/2	5,013.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.48	3/4	4,340.09	3/4	4,689.53	3/4	5,020.34	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

2 PORT 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	21.31	0	354.00	0	714.03	0	1,075.09	0	1,436.15	0	1,797.45	0	2,158.76	0	2,520.06	0	2,881.27	0	3,242.45
1/4	25.53	1/4	361.37	1/4	721.56	1/4	1,082.61	1/4	1,443.67	1/4	1,804.98	1/4	2,166.28	1/4	2,527.59	1/4	2,888.80	1/4	3,249.97
1/2	29.75	1/2	368.75	1/2	729.09	1/2	1,090.12	1/2	1,451.20	1/2	1,812.51	1/2	2,173.81	1/2	2,535.12	1/2	2,896.32	1/2	3,257.50
3/4	33.97	3/4	376.13	3/4	736.61	3/4	1,097.64	3/4	1,458.73	3/4	1,820.03	3/4	2,181.34	3/4	2,542.64	3/4	2,903.85	3/4	3,265.02
1	38.19	1	383.51	1	744.14	1	1,105.15	1	1,466.26	1	1,827.56	1	2,188.87	1	2,550.17	1	2,911.37	1	3,272.55
1/4	43.66	1/4	390.89	1/4	751.67	1/4	1,112.67	1/4	1,473.78	1/4	1,835.09	1/4	2,196.39	1/4	2,557.70	1/4	2,918.90	1/4	3,280.07
1/2	49.13	1/2	398.27	1/2	759.19	1/2	1,120.18	1/2	1,481.31	1/2	1,842.62	1/2	2,203.92	1/2	2,565.23	1/2	2,926.42	1/2	3,287.60
3/4	54.61	3/4	405.65	3/4	766.72	3/4	1,127.70	3/4	1,488.84	3/4	1,850.14	3/4	2,211.45	3/4	2,572.75	3/4	2,933.94	3/4	3,295.12
2	60.08	2	413.03	2	774.25	2	1,135.21	2	1,496.36	2	1,857.67	2	2,218.98	2	2,580.28	2	2,941.47	2	3,302.65
1/4	66.81	1/4	420.54	1/4	781.78	1/4	1,142.73	1/4	1,503.89	1/4	1,865.20	1/4	2,226.50	1/4	2,587.81	1/4	2,948.99	1/4	3,310.17
1/2	73.54	1/2	428.05	1/2	789.30	1/2	1,150.24	1/2	1,511.42	1/2	1,872.72	1/2	2,234.03	1/2	2,595.34	1/2	2,956.52	1/2	3,317.69
3/4	80.26	3/4	435.56	3/4	796.83	3/4	1,157.76	3/4	1,518.95	3/4	1,880.25	3/4	2,241.56	3/4	2,602.86	3/4	2,964.04	3/4	3,325.22
3	86.99	3	443.07	3	804.36	3	1,165.27	3	1,526.47	3	1,887.78	3	2,249.08	3	2,610.39	3	2,971.57	3	3,332.74
1/4	94.42	1/4	450.59	1/4	811.88	1/4	1,172.79	1/4	1,534.00	1/4	1,895.31	1/4	2,256.61	1/4	2,617.91	1/4	2,979.09	1/4	3,340.27
1/2	101.86	1/2	458.12	1/2	819.41	1/2	1,180.30	1/2	1,541.53	1/2	1,902.83	1/2	2,264.14	1/2	2,625.44	1/2	2,986.62	1/2	3,347.79
3/4	109.29	3/4	465.65	3/4	826.94	3/4	1,187.82	3/4	1,549.05	3/4	1,910.36	3/4	2,271.67	3/4	2,632.96	3/4	2,994.14	3/4	3,355.32
4	116.73	4	473.17	4	834.46	4	1,195.33	4	1,556.58	4	1,917.89	4	2,279.19	4	2,640.49	4	3,001.67	4	3,362.84
1/4	124.24	1/4	480.70	1/4	841.99	1/4	1,202.85	1/4	1,564.11	1/4	1,925.41	1/4	2,286.72	1/4	2,648.01	1/4	3,009.19	1/4	3,370.37
1/2	131.75	1/2	488.23	1/2	849.52	1/2	1,210.36	1/2	1,571.64	1/2	1,932.94	1/2	2,294.25	1/2	2,655.54	1/2	3,016.71	1/2	3,377.89
3/4	139.26	3/4	495.75	3/4	857.04	3/4	1,217.88	3/4	1,579.16	3/4	1,940.47	3/4	2,301.77	3/4	2,663.06	3/4	3,024.24	3/4	3,385.41
5	146.77	5	503.28	5	864.57	5	1,225.39	5	1,586.69	5	1,948.00	5	2,309.30	5	2,670.59	5	3,031.76	5	3,392.94
1/4	154.29	1/4	510.81	1/4	872.10	1/4	1,232.92	1/4	1,594.22	1/4	1,955.52	1/4	2,316.83	1/4	2,678.11	1/4	3,039.29	1/4	3,400.46
1/2	161.80	1/2	518.33	1/2	879.63	1/2	1,240.44	1/2	1,601.74	1/2	1,963.05	1/2	2,324.36	1/2	2,685.64	1/2	3,046.81	1/2	3,407.99
3/4	169.31	3/4	525.86	3/4	887.15	3/4	1,247.97	3/4	1,609.27	3/4	1,970.58	3/4	2,331.88	3/4	2,693.16	3/4	3,054.34	3/4	3,415.51
6	176.82	6	533.39	6	894.68	6	1,255.49	6	1,616.80	6	1,978.10	6	2,339.41	6	2,700.69	6	3,061.86	6	3,423.04
1/4	184.22	1/4	540.91	1/4	902.21	1/4	1,263.02	1/4	1,624.33	1/4	1,985.63	1/4	2,346.94	1/4	2,708.21	1/4	3,069.39	1/4	3,430.56
1/2	191.62	1/2	548.44	1/2	909.73	1/2	1,270.55	1/2	1,631.85	1/2	1,993.16	1/2	2,354.46	1/2	2,715.73	1/2	3,076.91	1/2	3,438.09
3/4	199.01	3/4	555.97	3/4	917.26	3/4	1,278.08	3/4	1,639.38	3/4	2,000.69	3/4	2,361.99	3/4	2,723.26	3/4	3,084.43	3/4	3,445.61
7	206.41	7	563.50	7	924.79	7	1,285.60	7	1,646.91	7	2,008.21	7	2,369.52	7	2,730.78	7	3,091.96	7	3,453.14
1/4	213.79	1/4	571.02	1/4	932.30	1/4	1,293.13	1/4	1,654.44	1/4	2,015.74	1/4	2,377.05	1/4	2,738.31	1/4	3,099.48	1/4	3,460.66
1/2	221.17	1/2	578.55	1/2	939.82	1/2	1,300.66	1/2	1,661.96	1/2	2,023.27	1/2	2,384.57	1/2	2,745.83	1/2	3,107.01	1/2	3,468.18
3/4	228.55	3/4	586.08	3/4	947.34	3/4	1,308.18	3/4	1,669.49	3/4	2,030.80	3/4	2,392.10	3/4	2,753.36	3/4	3,114.53	3/4	3,475.71
8	235.92	8	593.60	8	954.85	8	1,315.71	8	1,677.02	8	2,038.32	8	2,399.63	8	2,760.88	8	3,122.06	8	3,483.23
1/4	243.30	1/4	601.13	1/4	962.37	1/4	1,323.24	1/4	1,684.54	1/4	2,045.85	1/4	2,407.16	1/4	2,768.41	1/4	3,129.58	1/4	3,490.76
1/2	250.68	1/2	608.66	1/2	969.88	1/2	1,330.77	1/2	1,692.07	1/2	2,053.38	1/2	2,414.68	1/2	2,775.93	1/2	3,137.11	1/2	3,498.28
3/4	258.06	3/4	616.18	3/4	977.40	3/4	1,338.29	3/4	1,699.60	3/4	2,060.90	3/4	2,422.21	3/4	2,783.45	3/4	3,144.63	3/4	3,505.81
9	265.44	9	623.71	9	984.91	9	1,345.82	9	1,707.13	9	2,068.43	9	2,429.74	9	2,790.98	9	3,152.16	9	3,513.33
1/4	272.82	1/4	631.24	1/4	992.43	1/4	1,353.35	1/4	1,714.65	1/4	2,075.96	1/4	2,437.26	1/4	2,798.50	1/4	3,159.68	1/4	3,520.86
1/2	280.20	1/2	638.76	1/2	999.94	1/2	1,360.87	1/2	1,722.18	1/2	2,083.49	1/2	2,444.79	1/2	2,806.03	1/2	3,167.20	1/2	3,528.38
3/4	287.58	3/4	646.29	3/4	1,007.46	3/4	1,368.40	3/4	1,729.71	3/4	2,091.01	3/4	2,452.32	3/4	2,813.55	3/4	3,174.73	3/4	3,535.90
10	294.96	10	653.82	10	1,014.97	10	1,375.93	10	1,737.23	10	2,098.54	10	2,459.85	10	2,821.08	10	3,182.25	10	3,543.43
1/4	302.34	1/4	661.35	1/4	1,022.49	1/4	1,383.46	1/4	1,744.76	1/4	2,106.07	1/4	2,467.37	1/4	2,828.60	1/4	3,189.78	1/4	3,550.95
1/2	309.72	1/2	668.87	1/2	1,030.00	1/2	1,390.98	1/2	1,752.29	1/2	2,113.59	1/2	2,474.90	1/2	2,836.13	1/2	3,197.30	1/2	3,558.48
3/4	317.10	3/4	676.40	3/4	1,037.52	3/4	1,398.51	3/4	1,759.82	3/4	2,121.12	3/4	2,482.43	3/4	2,843.65	3/4	3,204.83	3/4	3,566.00
11	324.48	11	683.93	11	1,045.03	11	1,406.04	11	1,767.34	11	2,128.65	11	2,489.95	11	2,851.18	11	3,212.35	11	3,573.53
1/4	331.86	1/4	691.45	1/4	1,052.55	1/4	1,413.56	1/4	1,774.87	1/4	2,136.18	1/4	2,497.48	1/4	2,858.70	1/4	3,219.88	1/4	3,581.05
1/2	339.24	1/2	698.98	1/2	1,060.06	1/2	1,421.09	1/2	1,782.40	1/2	2,143.70	1/2	2,505.01	1/2	2,866.22	1/2	3,227.40	1/2	3,588.58
3/4	346.62	3/4	706.51	3/4	1,067.58	3/4	1,428.62	3/4	1,789.92	3/4	2,151.23	3/4	2,512.54	3/4	2,873.75	3/4	3,234.92	3/4	3,596.10

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 515B"

2 PORT 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	3,603.63	0	3,964.80	0	4,325.27	0	4,672.37	0	5,001.24	0		0		0		0		0	
1/4	3,611.15	1/4	3,972.33	1/4	4,332.67	1/4	4,679.40	1/4	5,008.61	1/4		1/4		1/4		1/4		1/4	
1/2	3,618.67	1/2	3,979.85	1/2	4,340.08	1/2	4,686.43	1/2	5,015.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,626.20	3/4	3,987.37	3/4	4,347.48	3/4	4,693.45	3/4	5,023.36	3/4		3/4		3/4		3/4		3/4	
1	3,633.72	1	3,994.90	1	4,354.89	1	4,700.48	1	5,030.73	1		1		1		1		1	
1/4	3,641.25	1/4	4,002.42	1/4	4,362.26	1/4	4,707.44	1/4	5,038.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.77	1/2	4,009.95	1/2	4,369.64	1/2	4,714.41	1/2	5,045.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.30	3/4	4,017.47	3/4	4,377.01	3/4	4,721.38	3/4	5,053.01	3/4		3/4		3/4		3/4		3/4	
2	3,663.82	2	4,025.00	2	4,384.38	2	4,728.34	2	5,060.44	2		2		2		2		2	
1/4	3,671.35	1/4	4,032.52	1/4	4,391.73	1/4	4,735.28	1/4	5,067.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,678.87	1/2	4,040.05	1/2	4,399.07	1/2	4,742.21	1/2	5,075.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,686.39	3/4	4,047.57	3/4	4,406.42	3/4	4,749.14	3/4	5,082.72	3/4		3/4		3/4		3/4		3/4	
3	3,693.92	3	4,055.10	3	4,413.76	3	4,756.07	3	5,090.14	3		3		3		3		3	
1/4	3,701.44	1/4	4,062.62	1/4	4,421.07	1/4	4,762.97	1/4	5,097.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,708.97	1/2	4,070.14	1/2	4,428.39	1/2	4,769.88	1/2	5,104.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,716.49	3/4	4,077.67	3/4	4,435.70	3/4	4,776.78	3/4	5,112.42	3/4		3/4		3/4		3/4		3/4	
4	3,724.02	4	4,085.19	4	4,443.01	4	4,783.68	4	5,119.85	4		4		4		4		4	
1/4	3,731.54	1/4	4,092.72	1/4	4,450.28	1/4	4,790.55	1/4	5,127.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,739.07	1/2	4,100.24	1/2	4,457.56	1/2	4,797.42	1/2	5,134.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,746.59	3/4	4,107.77	3/4	4,464.84	3/4	4,804.29	3/4	5,142.13	3/4		3/4		3/4		3/4		3/4	
5	3,754.12	5	4,115.29	5	4,472.12	5	4,811.16	5	5,149.55	5		5		5		5		5	
1/4	3,761.64	1/4	4,122.82	1/4	4,479.36	1/4	4,817.99	1/4	5,156.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,769.16	1/2	4,130.34	1/2	4,486.61	1/2	4,824.83	1/2	5,164.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,776.69	3/4	4,137.86	3/4	4,493.86	3/4	4,831.67	3/4	5,171.42	3/4		3/4		3/4		3/4		3/4	
6	3,784.21	6	4,145.39	6	4,501.10	6	4,838.50	6	5,178.71	6		6		6		6		6	
1/4	3,791.74	1/4	4,152.91	1/4	4,508.32	1/4	4,845.31	1/4	5,185.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,799.26	1/2	4,160.44	1/2	4,515.54	1/2	4,852.11	1/2	5,191.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,806.79	3/4	4,167.96	3/4	4,522.75	3/4	4,858.91	3/4	5,197.64	3/4		3/4		3/4		3/4		3/4	
7	3,814.31	7	4,175.49	7	4,529.97	7	4,865.72	7	5,203.94	7		7		7		7		7	
1/4	3,821.84	1/4	4,183.01	1/4	4,537.15	1/4	4,872.49	1/4	5,209.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,829.36	1/2	4,190.54	1/2	4,544.34	1/2	4,879.27	1/2	5,214.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,836.88	3/4	4,198.06	3/4	4,551.52	3/4	4,886.04	3/4	5,219.24	3/4		3/4		3/4		3/4		3/4	
8	3,844.41	8	4,205.59	8	4,558.71	8	4,892.82	8	5,224.34	8		8		8		8		8	
1/4	3,851.93	1/4	4,213.10	1/4	4,565.85	1/4	4,899.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,859.46	1/2	4,220.62	1/2	4,573.00	1/2	4,906.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,866.98	3/4	4,228.13	3/4	4,580.15	3/4	4,913.05	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,874.51	9	4,235.65	9	4,587.30	9	4,919.80	9		9		9		9		9		9	
1/4	3,882.03	1/4	4,243.15	1/4	4,594.42	1/4	4,926.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,889.56	1/2	4,250.65	1/2	4,601.54	1/2	4,933.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,897.08	3/4	4,258.15	3/4	4,608.66	3/4	4,939.94	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,904.61	10	4,265.65	10	4,615.78	10	4,946.65	10		10		10		10		10		10	
1/4	3,912.13	1/4	4,273.12	1/4	4,622.87	1/4	4,953.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,919.65	1/2	4,280.59	1/2	4,629.96	1/2	4,960.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,927.18	3/4	4,288.06	3/4	4,637.05	3/4	4,966.69	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,934.70	11	4,295.53	11	4,644.14	11	4,973.37	11		11		11		11		11		11	
1/4	3,942.23	1/4	4,302.96	1/4	4,651.20	1/4	4,980.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,949.75	1/2	4,310.40	1/2	4,658.26	1/2	4,987.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,957.28	3/4	4,317.83	3/4	4,665.31	3/4	4,994.27	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

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	21.36	0	354.80	0	715.65	0	1,069.74	0	1,423.49	0	1,785.62	0	2,147.74	0	2,509.87	0	2,870.18	0	3,232.17
1/4	25.59	1/4	362.19	1/4	723.20	1/4	1,076.94	1/4	1,431.04	1/4	1,793.16	1/4	2,155.29	1/4	2,517.41	1/4	2,877.72	1/4	3,239.71
1/2	29.82	1/2	369.59	1/2	730.74	1/2	1,084.14	1/2	1,438.58	1/2	1,800.71	1/2	2,162.83	1/2	2,524.96	1/2	2,885.26	1/2	3,247.25
3/4	34.05	3/4	376.99	3/4	738.28	3/4	1,091.34	3/4	1,446.12	3/4	1,808.25	3/4	2,170.38	3/4	2,532.50	3/4	2,892.80	3/4	3,254.79
1	38.27	1	384.38	1	745.83	1	1,098.54	1	1,453.67	1	1,815.79	1	2,177.92	1	2,540.05	1	2,900.34	1	3,262.34
1/4	43.76	1/4	391.78	1/4	753.37	1/4	1,105.74	1/4	1,461.21	1/4	1,823.34	1/4	2,185.47	1/4	2,547.59	1/4	2,907.89	1/4	3,269.88
1/2	49.25	1/2	399.18	1/2	760.92	1/2	1,112.94	1/2	1,468.76	1/2	1,830.88	1/2	2,193.01	1/2	2,555.14	1/2	2,915.43	1/2	3,277.42
3/4	54.73	3/4	406.57	3/4	768.46	3/4	1,120.14	3/4	1,476.30	3/4	1,838.43	3/4	2,200.55	3/4	2,562.68	3/4	2,922.97	3/4	3,284.96
2	60.22	2	413.97	2	776.00	2	1,127.34	2	1,483.85	2	1,845.97	2	2,208.10	2	2,570.22	2	2,930.51	2	3,292.50
1/4	66.96	1/4	421.49	1/4	783.55	1/4	1,134.54	1/4	1,491.39	1/4	1,853.52	1/4	2,215.64	1/4	2,577.77	1/4	2,938.05	1/4	3,300.04
1/2	73.70	1/2	429.02	1/2	791.09	1/2	1,141.74	1/2	1,498.93	1/2	1,861.06	1/2	2,223.19	1/2	2,585.31	1/2	2,945.59	1/2	3,307.59
3/4	80.44	3/4	436.54	3/4	798.64	3/4	1,148.94	3/4	1,506.48	3/4	1,868.60	3/4	2,230.73	3/4	2,592.86	3/4	2,953.13	3/4	3,315.13
3	87.19	3	444.07	3	806.18	3	1,156.15	3	1,514.02	3	1,876.15	3	2,238.28	3	2,600.40	3	2,960.68	3	3,322.67
1/4	94.64	1/4	451.61	1/4	813.72	1/4	1,163.35	1/4	1,521.57	1/4	1,883.69	1/4	2,245.82	1/4	2,607.94	1/4	2,968.22	1/4	3,330.21
1/2	102.09	1/2	459.16	1/2	821.27	1/2	1,170.55	1/2	1,529.11	1/2	1,891.24	1/2	2,253.36	1/2	2,615.48	1/2	2,975.76	1/2	3,337.75
3/4	109.54	3/4	466.70	3/4	828.81	3/4	1,177.75	3/4	1,536.66	3/4	1,898.78	3/4	2,260.91	3/4	2,623.02	3/4	2,983.30	3/4	3,345.29
4	116.99	4	474.24	4	836.36	4	1,184.95	4	1,544.20	4	1,906.33	4	2,268.45	4	2,630.56	4	2,990.84	4	3,352.83
1/4	124.52	1/4	481.79	1/4	843.90	1/4	1,192.15	1/4	1,551.74	1/4	1,913.87	1/4	2,276.00	1/4	2,638.00	1/4	2,998.38	1/4	3,360.38
1/2	132.05	1/2	489.33	1/2	851.44	1/2	1,199.35	1/2	1,559.29	1/2	1,921.42	1/2	2,283.54	1/2	2,645.45	1/2	3,005.93	1/2	3,367.92
3/4	139.58	3/4	496.88	3/4	858.99	3/4	1,206.55	3/4	1,566.83	3/4	1,928.96	3/4	2,291.09	3/4	2,652.90	3/4	3,013.47	3/4	3,375.46
5	147.11	5	504.42	5	866.53	5	1,213.75	5	1,574.38	5	1,936.50	5	2,298.63	5	2,660.35	5	3,021.01	5	3,383.00
1/4	154.64	1/4	511.96	1/4	874.08	1/4	1,220.96	1/4	1,581.92	1/4	1,944.05	1/4	2,306.17	1/4	2,667.78	1/4	3,028.55	1/4	3,390.54
1/2	162.17	1/2	519.51	1/2	881.62	1/2	1,228.17	1/2	1,589.47	1/2	1,951.59	1/2	2,313.72	1/2	2,675.22	1/2	3,036.09	1/2	3,398.08
3/4	169.69	3/4	527.05	3/4	889.16	3/4	1,235.38	3/4	1,597.01	3/4	1,959.14	3/4	2,321.26	3/4	2,682.65	3/4	3,043.63	3/4	3,405.62
6	177.22	6	534.60	6	896.71	6	1,242.59	6	1,604.55	6	1,966.68	6	2,328.81	6	2,690.09	6	3,051.17	6	3,413.17
1/4	184.64	1/4	542.14	1/4	903.96	1/4	1,250.10	1/4	1,612.10	1/4	1,974.23	1/4	2,336.35	1/4	2,697.52	1/4	3,058.72	1/4	3,420.71
1/2	192.05	1/2	549.68	1/2	911.21	1/2	1,257.60	1/2	1,619.64	1/2	1,981.77	1/2	2,343.90	1/2	2,704.96	1/2	3,066.26	1/2	3,428.25
3/4	199.46	3/4	557.23	3/4	918.47	3/4	1,265.10	3/4	1,627.19	3/4	1,989.31	3/4	2,351.44	3/4	2,712.39	3/4	3,073.80	3/4	3,435.79
7	206.87	7	564.77	7	925.72	7	1,272.61	7	1,634.73	7	1,996.86	7	2,358.98	7	2,719.83	7	3,081.34	7	3,443.33
1/4	214.27	1/4	572.32	1/4	932.92	1/4	1,280.15	1/4	1,642.28	1/4	2,004.40	1/4	2,366.53	1/4	2,727.26	1/4	3,088.88	1/4	3,450.87
1/2	221.67	1/2	579.86	1/2	940.12	1/2	1,287.69	1/2	1,649.82	1/2	2,011.95	1/2	2,374.07	1/2	2,734.70	1/2	3,096.42	1/2	3,458.42
3/4	229.06	3/4	587.40	3/4	947.33	3/4	1,295.24	3/4	1,657.36	3/4	2,019.49	3/4	2,381.62	3/4	2,742.13	3/4	3,103.96	3/4	3,465.96
8	236.46	8	594.95	8	954.53	8	1,302.78	8	1,664.91	8	2,027.04	8	2,389.16	8	2,749.57	8	3,111.51	8	3,473.50
1/4	243.86	1/4	602.49	1/4	961.73	1/4	1,310.33	1/4	1,672.45	1/4	2,034.58	1/4	2,396.71	1/4	2,757.10	1/4	3,119.05	1/4	3,481.04
1/2	251.25	1/2	610.04	1/2	968.93	1/2	1,317.87	1/2	1,680.00	1/2	2,042.12	1/2	2,404.25	1/2	2,764.62	1/2	3,126.59	1/2	3,488.58
3/4	258.65	3/4	617.58	3/4	976.13	3/4	1,325.42	3/4	1,687.54	3/4	2,049.67	3/4	2,411.79	3/4	2,772.15	3/4	3,134.13	3/4	3,496.12
9	266.04	9	625.12	9	983.33	9	1,332.96	9	1,695.09	9	2,057.21	9	2,419.34	9	2,779.68	9	3,141.67	9	3,503.66
1/4	273.44	1/4	632.67	1/4	990.53	1/4	1,340.50	1/4	1,702.63	1/4	2,064.76	1/4	2,426.88	1/4	2,787.22	1/4	3,149.21	1/4	3,511.21
1/2	280.84	1/2	640.21	1/2	997.73	1/2	1,348.05	1/2	1,710.17	1/2	2,072.30	1/2	2,434.43	1/2	2,794.76	1/2	3,156.76	1/2	3,518.75
3/4	288.23	3/4	647.76	3/4	1,004.93	3/4	1,355.59	3/4	1,717.72	3/4	2,079.85	3/4	2,441.97	3/4	2,802.30	3/4	3,164.30	3/4	3,526.29
10	295.63	10	655.30	10	1,012.13	10	1,363.14	10	1,725.26	10	2,087.39	10	2,449.52	10	2,809.85	10	3,171.84	10	3,533.83
1/4	303.02	1/4	662.84	1/4	1,019.33	1/4	1,370.68	1/4	1,732.81	1/4	2,094.93	1/4	2,457.06	1/4	2,817.39	1/4	3,179.38	1/4	3,541.37
1/2	310.42	1/2	670.39	1/2	1,026.53	1/2	1,378.23	1/2	1,740.35	1/2	2,102.48	1/2	2,464.60	1/2	2,824.93	1/2	3,186.92	1/2	3,548.91
3/4	317.82	3/4	677.93	3/4	1,033.74	3/4	1,385.77	3/4	1,747.90	3/4	2,110.02	3/4	2,472.15	3/4	2,832.47	3/4	3,194.46	3/4	3,556.45
11	325.21	11	685.48	11	1,040.94	11	1,393.31	11	1,755.44	11	2,117.57	11	2,479.69	11	2,840.01	11	3,202.00	11	3,564.00
1/4	332.61	1/4	693.02	1/4	1,048.14	1/4	1,400.86	1/4	1,762.98	1/4	2,125.11	1/4	2,487.24	1/4	2,847.55	1/4	3,209.55	1/4	3,571.54
1/2	340.01	1/2	700.56	1/2	1,055.34	1/2	1,408.40	1/2	1,770.53	1/2	2,132.66	1/2	2,494.78	1/2	2,855.10	1/2	3,217.09	1/2	3,579.08
3/4	347.40	3/4	708.11	3/4	1,062.54	3/4	1,415.95	3/4	1,778.07	3/4	2,140.20	3/4	2,502.33	3/4	2,862.64	3/4	3,224.63	3/4	3,586.62

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 515B"

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	3,594.16	0	3,956.15	0	4,317.44	0	4,665.34	0	4,994.95	0		0		0		0		0	
1/4	3,601.70	1/4	3,963.70	1/4	4,324.86	1/4	4,672.38	1/4	5,002.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.25	1/2	3,971.24	1/2	4,332.28	1/2	4,679.42	1/2	5,009.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.79	3/4	3,978.78	3/4	4,339.71	3/4	4,686.46	3/4	5,017.13	3/4		3/4		3/4		3/4		3/4	
1	3,624.33	1	3,986.32	1	4,347.13	1	4,693.50	1	5,024.52	1		1		1		1		1	
1/4	3,631.87	1/4	3,993.86	1/4	4,354.52	1/4	4,700.49	1/4	5,031.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.41	1/2	4,001.40	1/2	4,361.91	1/2	4,707.47	1/2	5,039.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.95	3/4	4,008.94	3/4	4,369.30	3/4	4,714.45	3/4	5,046.85	3/4		3/4		3/4		3/4		3/4	
2	3,654.49	2	4,016.49	2	4,376.69	2	4,721.43	2	5,054.29	2		2		2		2		2	
1/4	3,662.04	1/4	4,024.03	1/4	4,384.05	1/4	4,728.38	1/4	5,061.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.58	1/2	4,031.57	1/2	4,391.41	1/2	4,735.33	1/2	5,069.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.12	3/4	4,039.11	3/4	4,398.77	3/4	4,742.28	3/4	5,076.62	3/4		3/4		3/4		3/4		3/4	
3	3,684.66	3	4,046.65	3	4,406.14	3	4,749.23	3	5,084.06	3		3		3		3		3	
1/4	3,692.20	1/4	4,054.19	1/4	4,413.46	1/4	4,756.14	1/4	5,091.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.74	1/2	4,061.74	1/2	4,420.79	1/2	4,763.06	1/2	5,098.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,707.28	3/4	4,069.28	3/4	4,428.12	3/4	4,769.98	3/4	5,106.39	3/4		3/4		3/4		3/4		3/4	
4	3,714.83	4	4,076.82	4	4,435.45	4	4,776.90	4	5,113.83	4		4		4		4		4	
1/4	3,722.37	1/4	4,084.36	1/4	4,442.74	1/4	4,783.78	1/4	5,121.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,729.91	1/2	4,091.90	1/2	4,450.03	1/2	4,790.67	1/2	5,128.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,737.45	3/4	4,099.44	3/4	4,457.33	3/4	4,797.55	3/4	5,136.16	3/4		3/4		3/4		3/4		3/4	
5	3,744.99	5	4,106.98	5	4,464.62	5	4,804.44	5	5,143.61	5		5		5		5		5	
1/4	3,752.53	1/4	4,114.53	1/4	4,471.89	1/4	4,811.29	1/4	5,150.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,760.08	1/2	4,122.07	1/2	4,479.15	1/2	4,818.14	1/2	5,158.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,767.62	3/4	4,129.61	3/4	4,486.41	3/4	4,824.99	3/4	5,165.52	3/4		3/4		3/4		3/4		3/4	
6	3,775.16	6	4,137.15	6	4,493.67	6	4,831.84	6	5,172.83	6		6		6		6		6	
1/4	3,782.70	1/4	4,144.69	1/4	4,500.91	1/4	4,838.66	1/4	5,179.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,790.24	1/2	4,152.23	1/2	4,508.14	1/2	4,845.48	1/2	5,185.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,797.78	3/4	4,159.77	3/4	4,515.37	3/4	4,852.30	3/4	5,191.80	3/4		3/4		3/4		3/4		3/4	
7	3,805.32	7	4,167.32	7	4,522.61	7	4,859.12	7	5,198.12	7		7		7		7		7	
1/4	3,812.87	1/4	4,174.86	1/4	4,529.81	1/4	4,865.92	1/4	5,203.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,820.41	1/2	4,182.40	1/2	4,537.01	1/2	4,872.71	1/2	5,208.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,827.95	3/4	4,189.94	3/4	4,544.21	3/4	4,879.50	3/4	5,213.45	3/4		3/4		3/4		3/4		3/4	
8	3,835.49	8	4,197.48	8	4,551.41	8	4,886.29	8	5,218.56	8		8		8		8		8	
1/4	3,843.03	1/4	4,205.02	1/4	4,558.57	1/4	4,893.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,850.57	1/2	4,212.55	1/2	4,565.74	1/2	4,899.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,858.11	3/4	4,220.08	3/4	4,572.91	3/4	4,906.57	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,865.66	9	4,227.62	9	4,580.07	9	4,913.33	9		9		9		9		9		9	
1/4	3,873.20	1/4	4,235.14	1/4	4,587.21	1/4	4,920.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.74	1/2	4,242.65	1/2	4,594.34	1/2	4,926.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.28	3/4	4,250.17	3/4	4,601.48	3/4	4,933.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,895.82	10	4,257.69	10	4,608.61	10	4,940.24	10		10		10		10		10		10	
1/4	3,903.36	1/4	4,265.18	1/4	4,615.72	1/4	4,946.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,910.91	1/2	4,272.66	1/2	4,622.82	1/2	4,953.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.45	3/4	4,280.15	3/4	4,629.93	3/4	4,960.33	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,925.99	11	4,287.63	11	4,637.03	11	4,967.02	11		11		11		11		11		11	
1/4	3,933.53	1/4	4,295.09	1/4	4,644.11	1/4	4,974.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.07	1/2	4,302.54	1/2	4,651.19	1/2	4,980.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.61	3/4	4,309.99	3/4	4,658.26	3/4	4,987.97	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

3 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	21.28	0	353.51	0	713.07	0	1,073.67	0	1,434.33	0	1,795.16	0	2,155.95	0	2,516.69	0	2,877.24	0	3,236.91
1/4	25.50	1/4	360.88	1/4	720.58	1/4	1,081.18	1/4	1,441.85	1/4	1,802.67	1/4	2,163.47	1/4	2,524.21	1/4	2,884.74	1/4	3,244.37
1/2	29.71	1/2	368.25	1/2	728.10	1/2	1,088.69	1/2	1,449.36	1/2	1,810.19	1/2	2,170.98	1/2	2,531.72	1/2	2,892.24	1/2	3,251.84
3/4	33.93	3/4	375.62	3/4	735.62	3/4	1,096.20	3/4	1,456.88	3/4	1,817.71	3/4	2,178.50	3/4	2,539.24	3/4	2,899.74	3/4	3,259.31
1	38.14	1	382.99	1	743.13	1	1,103.70	1	1,464.40	1	1,825.22	1	2,186.01	1	2,546.75	1	2,907.25	1	3,266.77
1/4	43.61	1/4	390.36	1/4	750.65	1/4	1,111.21	1/4	1,471.92	1/4	1,832.74	1/4	2,193.53	1/4	2,554.27	1/4	2,914.75	1/4	3,274.24
1/2	49.07	1/2	397.73	1/2	758.17	1/2	1,118.72	1/2	1,479.43	1/2	1,840.26	1/2	2,201.05	1/2	2,561.78	1/2	2,922.25	1/2	3,281.71
3/4	54.54	3/4	405.10	3/4	765.68	3/4	1,126.23	3/4	1,486.95	3/4	1,847.78	3/4	2,208.56	3/4	2,569.30	3/4	2,929.75	3/4	3,289.17
2	60.00	2	412.46	2	773.20	2	1,133.73	2	1,494.47	2	1,855.29	2	2,216.08	2	2,576.82	2	2,937.25	2	3,296.64
1/4	66.72	1/4	419.96	1/4	780.72	1/4	1,141.24	1/4	1,501.99	1/4	1,862.81	1/4	2,223.59	1/4	2,584.33	1/4	2,944.75	1/4	3,304.11
1/2	73.44	1/2	427.46	1/2	788.24	1/2	1,148.75	1/2	1,509.50	1/2	1,870.33	1/2	2,231.11	1/2	2,591.85	1/2	2,952.25	1/2	3,311.57
3/4	80.16	3/4	434.96	3/4	795.75	3/4	1,156.26	3/4	1,517.02	3/4	1,877.85	3/4	2,238.62	3/4	2,599.36	3/4	2,959.75	3/4	3,319.04
3	86.88	3	442.46	3	803.27	3	1,163.76	3	1,524.54	3	1,885.36	3	2,246.14	3	2,606.88	3	2,967.26	3	3,326.51
1/4	94.30	1/4	449.97	1/4	810.79	1/4	1,171.27	1/4	1,532.05	1/4	1,892.88	1/4	2,253.65	1/4	2,614.39	1/4	2,974.76	1/4	3,333.99
1/2	101.73	1/2	457.49	1/2	818.30	1/2	1,178.78	1/2	1,539.57	1/2	1,900.40	1/2	2,261.17	1/2	2,621.90	1/2	2,982.26	1/2	3,341.47
3/4	109.15	3/4	465.01	3/4	825.82	3/4	1,186.29	3/4	1,547.09	3/4	1,907.91	3/4	2,268.68	3/4	2,629.42	3/4	2,989.76	3/4	3,348.95
4	116.57	4	472.53	4	833.34	4	1,193.80	4	1,554.61	4	1,915.43	4	2,276.20	4	2,636.93	4	2,997.26	4	3,356.43
1/4	124.08	1/4	480.04	1/4	840.85	1/4	1,201.31	1/4	1,562.12	1/4	1,922.95	1/4	2,283.71	1/4	2,644.45	1/4	3,004.76	1/4	3,363.91
1/2	131.58	1/2	487.56	1/2	848.37	1/2	1,208.82	1/2	1,569.64	1/2	1,930.47	1/2	2,291.23	1/2	2,651.96	1/2	3,012.26	1/2	3,371.40
3/4	139.08	3/4	495.08	3/4	855.89	3/4	1,216.34	3/4	1,577.16	3/4	1,937.98	3/4	2,298.75	3/4	2,659.48	3/4	3,019.76	3/4	3,378.88
5	146.58	5	502.59	5	863.40	5	1,223.85	5	1,584.67	5	1,945.50	5	2,306.26	5	2,666.99	5	3,027.27	5	3,386.36
1/4	154.08	1/4	510.11	1/4	870.92	1/4	1,231.37	1/4	1,592.19	1/4	1,953.02	1/4	2,313.78	1/4	2,674.50	1/4	3,034.77	1/4	3,393.84
1/2	161.59	1/2	517.63	1/2	878.44	1/2	1,238.88	1/2	1,599.71	1/2	1,960.53	1/2	2,321.29	1/2	2,682.02	1/2	3,042.27	1/2	3,401.33
3/4	169.09	3/4	525.14	3/4	885.95	3/4	1,246.40	3/4	1,607.23	3/4	1,968.05	3/4	2,328.81	3/4	2,689.53	3/4	3,049.77	3/4	3,408.81
6	176.59	6	532.66	6	893.47	6	1,253.92	6	1,614.74	6	1,975.57	6	2,336.32	6	2,697.05	6	3,057.27	6	3,416.29
1/4	183.98	1/4	540.18	1/4	900.98	1/4	1,261.43	1/4	1,622.26	1/4	1,983.09	1/4	2,343.84	1/4	2,704.56	1/4	3,064.77	1/4	3,423.77
1/2	191.36	1/2	547.69	1/2	908.49	1/2	1,268.95	1/2	1,629.78	1/2	1,990.60	1/2	2,351.35	1/2	2,712.07	1/2	3,072.27	1/2	3,431.26
3/4	198.75	3/4	555.21	3/4	916.01	3/4	1,276.47	3/4	1,637.29	3/4	1,998.12	3/4	2,358.87	3/4	2,719.59	3/4	3,079.77	3/4	3,438.74
7	206.13	7	562.73	7	923.52	7	1,283.99	7	1,644.81	7	2,005.64	7	2,366.38	7	2,727.10	7	3,087.27	7	3,446.22
1/4	213.50	1/4	570.25	1/4	931.02	1/4	1,291.50	1/4	1,652.33	1/4	2,013.15	1/4	2,373.90	1/4	2,734.62	1/4	3,094.78	1/4	3,453.71
1/2	220.87	1/2	577.76	1/2	938.53	1/2	1,299.02	1/2	1,659.85	1/2	2,020.67	1/2	2,381.41	1/2	2,742.13	1/2	3,102.28	1/2	3,461.19
3/4	228.24	3/4	585.28	3/4	946.04	3/4	1,306.54	3/4	1,667.36	3/4	2,028.19	3/4	2,388.93	3/4	2,749.64	3/4	3,109.78	3/4	3,468.67
8	235.61	8	592.80	8	953.55	8	1,314.06	8	1,674.88	8	2,035.71	8	2,396.45	8	2,757.16	8	3,117.28	8	3,476.15
1/4	242.98	1/4	600.31	1/4	961.06	1/4	1,321.57	1/4	1,682.40	1/4	2,043.22	1/4	2,403.96	1/4	2,764.67	1/4	3,124.78	1/4	3,483.64
1/2	250.35	1/2	607.83	1/2	968.56	1/2	1,329.09	1/2	1,689.92	1/2	2,050.74	1/2	2,411.48	1/2	2,772.19	1/2	3,132.28	1/2	3,491.12
3/4	257.72	3/4	615.35	3/4	976.07	3/4	1,336.61	3/4	1,697.43	3/4	2,058.25	3/4	2,418.99	3/4	2,779.70	3/4	3,139.78	3/4	3,498.60
9	265.08	9	622.86	9	983.58	9	1,344.12	9	1,704.95	9	2,065.77	9	2,426.51	9	2,787.22	9	3,147.28	9	3,506.08
1/4	272.45	1/4	630.38	1/4	991.09	1/4	1,351.64	1/4	1,712.47	1/4	2,073.28	1/4	2,434.02	1/4	2,794.72	1/4	3,154.76	1/4	3,513.56
1/2	279.82	1/2	637.90	1/2	998.60	1/2	1,359.16	1/2	1,719.98	1/2	2,080.80	1/2	2,441.54	1/2	2,802.23	1/2	3,162.23	1/2	3,521.04
3/4	287.19	3/4	645.41	3/4	1,006.10	3/4	1,366.68	3/4	1,727.50	3/4	2,088.31	3/4	2,449.05	3/4	2,809.73	3/4	3,169.70	3/4	3,528.51
10	294.56	10	652.93	10	1,013.61	10	1,374.19	10	1,735.02	10	2,095.83	10	2,456.57	10	2,817.23	10	3,177.17	10	3,535.99
1/4	301.93	1/4	660.45	1/4	1,021.12	1/4	1,381.71	1/4	1,742.54	1/4	2,103.34	1/4	2,464.08	1/4	2,824.73	1/4	3,184.64	1/4	3,543.47
1/2	309.30	1/2	667.96	1/2	1,028.63	1/2	1,389.23	1/2	1,750.05	1/2	2,110.86	1/2	2,471.60	1/2	2,832.23	1/2	3,192.10	1/2	3,550.95
3/4	316.67	3/4	675.48	3/4	1,036.13	3/4	1,396.74	3/4	1,757.57	3/4	2,118.38	3/4	2,479.11	3/4	2,839.74	3/4	3,199.57	3/4	3,558.43
11	324.04	11	683.00	11	1,043.64	11	1,404.26	11	1,765.09	11	2,125.89	11	2,486.63	11	2,847.24	11	3,207.04	11	3,565.91
1/4	331.41	1/4	690.52	1/4	1,051.15	1/4	1,411.78	1/4	1,772.60	1/4	2,133.41	1/4	2,494.15	1/4	2,854.74	1/4	3,214.50	1/4	3,573.39
1/2	338.77	1/2	698.03	1/2	1,058.66	1/2	1,419.30	1/2	1,780.12	1/2	2,140.92	1/2	2,501.66	1/2	2,862.24	1/2	3,221.97	1/2	3,580.87
3/4	346.14	3/4	705.55	3/4	1,066.16	3/4	1,426.81	3/4	1,787.64	3/4	2,148.44	3/4	2,509.18	3/4	2,869.74	3/4	3,229.44	3/4	3,588.35

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 515B"

3 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	3,556.36	0	3,750.62	0	3,944.19	0	4,124.40	0	4,287.10	0		0		0		0		0	
1/4	3,560.41	1/4	3,754.67	1/4	3,948.11	1/4	4,127.94	1/4	4,291.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.46	1/2	3,758.71	1/2	3,952.04	1/2	4,131.49	1/2	4,294.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.51	3/4	3,762.76	3/4	3,955.97	3/4	4,135.04	3/4	4,298.93	3/4		3/4		3/4		3/4		3/4	
1	3,572.55	1	3,766.81	1	3,959.90	1	4,138.59	1	4,302.87	1		1		1		1		1	
1/4	3,576.60	1/4	3,770.86	1/4	3,963.79	1/4	4,142.09	1/4	4,306.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.65	1/2	3,774.90	1/2	3,967.69	1/2	4,145.60	1/2	4,310.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.69	3/4	3,778.95	3/4	3,971.59	3/4	4,149.10	3/4	4,314.85	3/4		3/4		3/4		3/4		3/4	
2	3,588.74	2	3,783.00	2	3,975.49	2	4,152.60	2	4,318.84	2		2		2		2		2	
1/4	3,592.79	1/4	3,787.04	1/4	3,979.35	1/4	4,156.07	1/4	4,322.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.83	1/2	3,791.09	1/2	3,983.22	1/2	4,159.54	1/2	4,326.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,600.88	3/4	3,795.14	3/4	3,987.09	3/4	4,163.01	3/4	4,330.83	3/4		3/4		3/4		3/4		3/4	
3	3,604.93	3	3,799.18	3	3,990.95	3	4,166.48	3	4,334.82	3		3		3		3		3	
1/4	3,608.98	1/4	3,803.23	1/4	3,994.79	1/4	4,169.92	1/4	4,338.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,613.02	1/2	3,807.28	1/2	3,998.62	1/2	4,173.36	1/2	4,342.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.07	3/4	3,811.33	3/4	4,002.46	3/4	4,176.80	3/4	4,346.80	3/4		3/4		3/4		3/4		3/4	
4	3,621.12	4	3,815.37	4	4,006.29	4	4,180.24	4	4,350.79	4		4		4		4		4	
1/4	3,625.16	1/4	3,819.42	1/4	4,010.09	1/4	4,183.65	1/4	4,354.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,629.21	1/2	3,823.47	1/2	4,013.89	1/2	4,187.06	1/2	4,358.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,633.26	3/4	3,827.51	3/4	4,017.69	3/4	4,190.46	3/4	4,362.78	3/4		3/4		3/4		3/4		3/4	
5	3,637.30	5	3,831.56	5	4,021.49	5	4,193.87	5	4,366.77	5		5		5		5		5	
1/4	3,641.35	1/4	3,835.61	1/4	4,025.26	1/4	4,197.25	1/4	4,370.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,645.40	1/2	3,839.65	1/2	4,029.03	1/2	4,200.62	1/2	4,374.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.45	3/4	3,843.70	3/4	4,032.80	3/4	4,203.99	3/4	4,378.35	3/4		3/4		3/4		3/4		3/4	
6	3,653.49	6	3,847.75	6	4,036.57	6	4,207.36	6	4,382.21	6		6		6		6		6	
1/4	3,657.54	1/4	3,851.80	1/4	4,040.31	1/4	4,210.71	1/4	4,385.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.59	1/2	3,855.84	1/2	4,044.05	1/2	4,214.05	1/2	4,387.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,665.63	3/4	3,859.89	3/4	4,047.79	3/4	4,217.39	3/4	4,390.85	3/4		3/4		3/4		3/4		3/4	
7	3,669.68	7	3,863.94	7	4,051.53	7	4,220.74	7	4,393.73	7		7		7		7		7	
1/4	3,673.73	1/4	3,867.98	1/4	4,055.24	1/4	4,224.05	1/4	4,395.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.77	1/2	3,872.03	1/2	4,058.94	1/2	4,227.36	1/2	4,397.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.82	3/4	3,876.08	3/4	4,062.65	3/4	4,230.67	3/4	4,398.70	3/4		3/4		3/4		3/4		3/4	
8	3,685.87	8	3,880.12	8	4,066.36	8	4,233.99	8	4,400.36	8		8		8		8		8	
1/4	3,689.92	1/4	3,884.17	1/4	4,070.03	1/4	4,237.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.96	1/2	3,888.21	1/2	4,073.70	1/2	4,240.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.01	3/4	3,892.25	3/4	4,077.37	3/4	4,243.84	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,702.06	9	3,896.30	9	4,081.05	9	4,247.12	9		9		9		9		9		9	
1/4	3,706.10	1/4	3,900.32	1/4	4,084.69	1/4	4,250.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.15	1/2	3,904.34	1/2	4,088.33	1/2	4,253.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.20	3/4	3,908.37	3/4	4,091.97	3/4	4,256.87	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,718.24	10	3,912.39	10	4,095.62	10	4,260.12	10		10		10		10		10		10	
1/4	3,722.29	1/4	3,916.38	1/4	4,099.23	1/4	4,263.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.34	1/2	3,920.37	1/2	4,102.84	1/2	4,266.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,730.39	3/4	3,924.36	3/4	4,106.45	3/4	4,269.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,734.43	11	3,928.36	11	4,110.07	11	4,272.98	11		11		11		11		11		11	
1/4	3,738.48	1/4	3,932.31	1/4	4,113.65	1/4	4,276.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,742.53	1/2	3,936.27	1/2	4,117.23	1/2	4,280.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.57	3/4	3,940.23	3/4	4,120.81	3/4	4,283.57	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

3 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	21.24	0	352.20	0	710.38	0	1,058.27	0	1,411.13	0	1,769.95	0	2,129.26	0	2,488.51	0	2,845.87	0	3,203.87
1/4	25.44	1/4	359.54	1/4	717.87	1/4	1,065.42	1/4	1,418.55	1/4	1,777.43	1/4	2,136.74	1/4	2,496.00	1/4	2,853.34	1/4	3,211.31
1/2	29.65	1/2	366.88	1/2	725.36	1/2	1,072.58	1/2	1,425.98	1/2	1,784.92	1/2	2,144.22	1/2	2,503.48	1/2	2,860.81	1/2	3,218.74
3/4	33.85	3/4	374.22	3/4	732.84	3/4	1,079.73	3/4	1,433.40	3/4	1,792.40	3/4	2,151.71	3/4	2,510.97	3/4	2,868.28	3/4	3,226.18
1	38.06	1	381.56	1	740.33	1	1,086.88	1	1,440.83	1	1,799.89	1	2,159.19	1	2,518.45	1	2,875.75	1	3,233.61
1/4	43.50	1/4	388.90	1/4	747.82	1/4	1,094.03	1/4	1,448.25	1/4	1,807.38	1/4	2,166.68	1/4	2,525.93	1/4	2,883.21	1/4	3,241.05
1/2	48.94	1/2	396.24	1/2	755.31	1/2	1,101.18	1/2	1,455.68	1/2	1,814.86	1/2	2,174.16	1/2	2,533.42	1/2	2,890.68	1/2	3,248.49
3/4	54.39	3/4	403.58	3/4	762.80	3/4	1,108.33	3/4	1,463.10	3/4	1,822.35	3/4	2,181.65	3/4	2,540.90	3/4	2,898.14	3/4	3,255.92
2	59.83	2	410.92	2	770.29	2	1,115.48	2	1,470.52	2	1,829.84	2	2,189.13	2	2,548.39	2	2,905.61	2	3,263.36
1/4	66.51	1/4	418.39	1/4	777.77	1/4	1,122.63	1/4	1,478.00	1/4	1,837.32	1/4	2,196.62	1/4	2,555.87	1/4	2,913.07	1/4	3,270.79
1/2	73.20	1/2	425.86	1/2	785.26	1/2	1,129.78	1/2	1,485.48	1/2	1,844.81	1/2	2,204.10	1/2	2,563.36	1/2	2,920.53	1/2	3,278.23
3/4	79.88	3/4	433.33	3/4	792.75	3/4	1,136.93	3/4	1,492.96	3/4	1,852.30	3/4	2,211.59	3/4	2,570.84	3/4	2,927.99	3/4	3,285.67
3	86.56	3	440.80	3	800.24	3	1,144.09	3	1,500.44	3	1,859.78	3	2,219.07	3	2,578.33	3	2,935.46	3	3,293.10
1/4	93.96	1/4	448.29	1/4	807.48	1/4	1,151.48	1/4	1,507.93	1/4	1,867.27	1/4	2,226.55	1/4	2,585.81	1/4	2,942.92	1/4	3,300.55
1/2	101.35	1/2	455.78	1/2	814.72	1/2	1,158.88	1/2	1,515.41	1/2	1,874.75	1/2	2,234.04	1/2	2,593.29	1/2	2,950.38	1/2	3,308.00
3/4	108.75	3/4	463.26	3/4	821.96	3/4	1,166.28	3/4	1,522.90	3/4	1,882.24	3/4	2,241.52	3/4	2,600.77	3/4	2,957.85	3/4	3,315.45
4	116.14	4	470.75	4	829.20	4	1,173.68	4	1,530.38	4	1,889.73	4	2,249.01	4	2,608.25	4	2,965.31	4	3,322.90
1/4	123.62	1/4	478.24	1/4	836.38	1/4	1,181.09	1/4	1,537.87	1/4	1,897.21	1/4	2,256.49	1/4	2,615.64	1/4	2,972.77	1/4	3,330.35
1/2	131.10	1/2	485.73	1/2	843.56	1/2	1,188.50	1/2	1,545.36	1/2	1,904.70	1/2	2,263.98	1/2	2,623.03	1/2	2,980.23	1/2	3,337.81
3/4	138.58	3/4	493.22	3/4	850.74	3/4	1,195.91	3/4	1,552.84	3/4	1,912.19	3/4	2,271.46	3/4	2,630.42	3/4	2,987.70	3/4	3,345.26
5	146.06	5	500.71	5	857.92	5	1,203.32	5	1,560.33	5	1,919.67	5	2,278.95	5	2,637.81	5	2,995.16	5	3,352.71
1/4	153.53	1/4	508.19	1/4	865.10	1/4	1,210.73	1/4	1,567.82	1/4	1,927.16	1/4	2,286.43	1/4	2,645.19	1/4	3,002.62	1/4	3,360.16
1/2	161.00	1/2	515.68	1/2	872.27	1/2	1,218.13	1/2	1,575.30	1/2	1,934.64	1/2	2,293.91	1/2	2,652.57	1/2	3,010.08	1/2	3,367.61
3/4	168.48	3/4	523.17	3/4	879.45	3/4	1,225.54	3/4	1,582.79	3/4	1,942.13	3/4	2,301.40	3/4	2,659.94	3/4	3,017.55	3/4	3,375.06
6	175.95	6	530.66	6	886.63	6	1,232.95	6	1,590.27	6	1,949.62	6	2,308.88	6	2,667.32	6	3,025.01	6	3,382.52
1/4	183.31	1/4	538.15	1/4	893.78	1/4	1,240.37	1/4	1,597.76	1/4	1,957.10	1/4	2,316.37	1/4	2,674.70	1/4	3,032.47	1/4	3,389.97
1/2	190.67	1/2	545.64	1/2	900.94	1/2	1,247.79	1/2	1,605.25	1/2	1,964.59	1/2	2,323.85	1/2	2,682.07	1/2	3,039.94	1/2	3,397.42
3/4	198.02	3/4	553.12	3/4	908.09	3/4	1,255.22	3/4	1,612.73	3/4	1,972.08	3/4	2,331.34	3/4	2,689.45	3/4	3,047.40	3/4	3,404.87
7	205.38	7	560.61	7	915.25	7	1,262.64	7	1,620.22	7	1,979.56	7	2,338.82	7	2,696.83	7	3,054.86	7	3,412.32
1/4	212.72	1/4	568.10	1/4	922.40	1/4	1,270.06	1/4	1,627.71	1/4	1,987.05	1/4	2,346.31	1/4	2,704.20	1/4	3,062.33	1/4	3,419.77
1/2	220.06	1/2	575.59	1/2	929.55	1/2	1,277.49	1/2	1,635.19	1/2	1,994.53	1/2	2,353.79	1/2	2,711.58	1/2	3,069.80	1/2	3,427.23
3/4	227.40	3/4	583.08	3/4	936.71	3/4	1,284.91	3/4	1,642.68	3/4	2,002.02	3/4	2,361.28	3/4	2,718.96	3/4	3,077.27	3/4	3,434.68
8	234.74	8	590.57	8	943.86	8	1,292.34	8	1,650.17	8	2,009.51	8	2,368.76	8	2,726.33	8	3,084.74	8	3,442.13
1/4	242.09	1/4	598.05	1/4	951.01	1/4	1,299.76	1/4	1,657.65	1/4	2,016.99	1/4	2,376.24	1/4	2,733.80	1/4	3,092.21	1/4	3,449.58
1/2	249.43	1/2	605.54	1/2	958.16	1/2	1,307.19	1/2	1,665.14	1/2	2,024.47	1/2	2,383.73	1/2	2,741.28	1/2	3,099.68	1/2	3,457.03
3/4	256.77	3/4	613.03	3/4	965.31	3/4	1,314.61	3/4	1,672.62	3/4	2,031.96	3/4	2,391.21	3/4	2,748.75	3/4	3,107.15	3/4	3,464.48
9	264.11	9	620.52	9	972.46	9	1,322.03	9	1,680.11	9	2,039.44	9	2,398.70	9	2,756.22	9	3,114.62	9	3,471.94
1/4	271.45	1/4	628.01	1/4	979.61	1/4	1,329.46	1/4	1,687.60	1/4	2,046.93	1/4	2,406.18	1/4	2,763.69	1/4	3,122.06	1/4	3,479.39
1/2	278.79	1/2	635.50	1/2	986.76	1/2	1,336.88	1/2	1,695.08	1/2	2,054.41	1/2	2,413.67	1/2	2,771.16	1/2	3,129.50	1/2	3,480.84
3/4	286.13	3/4	642.98	3/4	993.91	3/4	1,344.31	3/4	1,702.57	3/4	2,061.90	3/4	2,421.15	3/4	2,778.63	3/4	3,136.94	3/4	3,485.29
10	293.47	10	650.47	10	1,001.07	10	1,351.73	10	1,710.06	10	2,069.38	10	2,428.64	10	2,786.11	10	3,144.38	10	3,489.74
1/4	300.81	1/4	657.96	1/4	1,008.22	1/4	1,359.16	1/4	1,717.54	1/4	2,076.86	1/4	2,436.12	1/4	2,793.58	1/4	3,151.82	1/4	3,493.77
1/2	308.15	1/2	665.45	1/2	1,015.37	1/2	1,366.58	1/2	1,725.03	1/2	2,084.35	1/2	2,443.60	1/2	2,801.05	1/2	3,159.25	1/2	3,497.79
3/4	315.49	3/4	672.94	3/4	1,022.52	3/4	1,374.01	3/4	1,732.51	3/4	2,091.83	3/4	2,451.09	3/4	2,808.52	3/4	3,166.69	3/4	3,501.81
11	322.83	11	680.43	11	1,029.67	11	1,381.43	11	1,740.00	11	2,099.32	11	2,458.57	11	2,815.99	11	3,174.13	11	3,505.84
1/4	330.17	1/4	687.91	1/4	1,036.82	1/4	1,388.86	1/4	1,747.49	1/4	2,106.80	1/4	2,466.06	1/4	2,823.46	1/4	3,181.56	1/4	3,509.86
1/2	337.51	1/2	695.40	1/2	1,043.97	1/2	1,396.28	1/2	1,754.97	1/2	2,114.29	1/2	2,473.54	1/2	2,830.93	1/2	3,189.00	1/2	3,513.88
3/4	344.85	3/4	702.89	3/4	1,051.12	3/4	1,403.70	3/4	1,762.46	3/4	2,121.77	3/4	2,481.03	3/4	2,838.40	3/4	3,196.43	3/4	3,517.91

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 515B"

3 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	3,521.93	0	3,715.06	0	3,907.49	0	4,086.60	0	4,248.25	0		0		0		0		0	
1/4	3,525.95	1/4	3,719.08	1/4	3,911.40	1/4	4,090.13	1/4	4,252.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.98	1/2	3,723.11	1/2	3,915.30	1/2	4,093.66	1/2	4,256.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.00	3/4	3,727.13	3/4	3,919.21	3/4	4,097.18	3/4	4,260.00	3/4		3/4		3/4		3/4		3/4	
1	3,538.03	1	3,731.15	1	3,923.11	1	4,100.71	1	4,263.92	1		1		1		1		1	
1/4	3,542.05	1/4	3,735.18	1/4	3,926.98	1/4	4,104.19	1/4	4,267.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,546.07	1/2	3,739.20	1/2	3,930.86	1/2	4,107.67	1/2	4,271.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.10	3/4	3,743.22	3/4	3,934.73	3/4	4,111.15	3/4	4,275.83	3/4		3/4		3/4		3/4		3/4	
2	3,554.12	2	3,747.25	2	3,938.61	2	4,114.63	2	4,279.80	2		2		2		2		2	
1/4	3,558.14	1/4	3,751.27	1/4	3,942.45	1/4	4,118.08	1/4	4,283.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.17	1/2	3,755.29	1/2	3,946.29	1/2	4,121.52	1/2	4,287.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.19	3/4	3,759.32	3/4	3,950.14	3/4	4,124.97	3/4	4,291.71	3/4		3/4		3/4		3/4		3/4	
3	3,570.21	3	3,763.34	3	3,953.98	3	4,128.42	3	4,295.68	3		3		3		3		3	
1/4	3,574.24	1/4	3,767.36	1/4	3,957.79	1/4	4,131.84	1/4	4,299.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.26	1/2	3,771.39	1/2	3,961.60	1/2	4,135.26	1/2	4,303.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.28	3/4	3,775.41	3/4	3,965.42	3/4	4,138.67	3/4	4,307.59	3/4		3/4		3/4		3/4		3/4	
4	3,586.31	4	3,779.44	4	3,969.23	4	4,142.09	4	4,311.57	4		4		4		4		4	
1/4	3,590.33	1/4	3,783.46	1/4	3,973.00	1/4	4,145.48	1/4	4,315.54	1/4		1/4		1/4		1/4		1/4	
1/2	3,594.35	1/2	3,787.48	1/2	3,976.78	1/2	4,148.86	1/2	4,319.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.38	3/4	3,791.51	3/4	3,980.56	3/4	4,152.25	3/4	4,323.48	3/4		3/4		3/4		3/4		3/4	
5	3,602.40	5	3,795.53	5	3,984.34	5	4,155.63	5	4,327.45	5		5		5		5		5	
1/4	3,606.42	1/4	3,799.55	1/4	3,988.08	1/4	4,158.98	1/4	4,331.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.45	1/2	3,803.58	1/2	3,991.83	1/2	4,162.34	1/2	4,335.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,614.47	3/4	3,807.60	3/4	3,995.58	3/4	4,165.69	3/4	4,338.95	3/4		3/4		3/4		3/4		3/4	
6	3,618.50	6	3,811.62	6	3,999.32	6	4,169.04	6	4,342.79	6		6		6		6		6	
1/4	3,622.52	1/4	3,815.65	1/4	4,003.04	1/4	4,172.36	1/4	4,345.65	1/4		1/4		1/4		1/4		1/4	
1/2	3,626.54	1/2	3,819.67	1/2	4,006.76	1/2	4,175.68	1/2	4,348.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.57	3/4	3,823.69	3/4	4,010.47	3/4	4,179.00	3/4	4,351.36	3/4		3/4		3/4		3/4		3/4	
7	3,634.59	7	3,827.72	7	4,014.19	7	4,182.32	7	4,354.22	7		7		7		7		7	
1/4	3,638.61	1/4	3,831.74	1/4	4,017.87	1/4	4,185.61	1/4	4,355.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.64	1/2	3,835.76	1/2	4,021.56	1/2	4,188.90	1/2	4,357.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.66	3/4	3,839.79	3/4	4,025.24	3/4	4,192.19	3/4	4,359.14	3/4		3/4		3/4		3/4		3/4	
8	3,650.68	8	3,843.81	8	4,028.93	8	4,195.48	8	4,360.78	8		8		8		8		8	
1/4	3,654.71	1/4	3,847.83	1/4	4,032.58	1/4	4,198.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.73	1/2	3,851.85	1/2	4,036.23	1/2	4,202.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.75	3/4	3,855.87	3/4	4,039.88	3/4	4,205.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,666.78	9	3,859.88	9	4,043.53	9	4,208.53	9		9		9		9		9		9	
1/4	3,670.80	1/4	3,863.88	1/4	4,047.15	1/4	4,211.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.82	1/2	3,867.88	1/2	4,050.77	1/2	4,214.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,678.85	3/4	3,871.88	3/4	4,054.38	3/4	4,218.21	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,682.87	10	3,875.88	10	4,058.00	10	4,221.44	10		10		10		10		10		10	
1/4	3,686.89	1/4	3,879.85	1/4	4,061.59	1/4	4,224.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,690.92	1/2	3,883.82	1/2	4,065.18	1/2	4,227.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,694.94	3/4	3,887.79	3/4	4,068.77	3/4	4,231.02	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,698.97	11	3,891.76	11	4,072.36	11	4,234.21	11		11		11		11		11		11	
1/4	3,702.99	1/4	3,895.69	1/4	4,075.92	1/4	4,237.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.01	1/2	3,899.63	1/2	4,079.48	1/2	4,241.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,711.04	3/4	3,903.56	3/4	4,083.04	3/4	4,244.74	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

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	03-0/8	- 03-0/8
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	02-1/2	- 02-1/2	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 31, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 515B"

1 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	4,924.02	0	4,588.63	0	4,234.10	0	3,871.13	0	3,508.16	0	3,145.19	0	2,782.22	0	2,419.17		
1/4	1/4	5,250.43	4,917.24	1/4	4,581.45	1/4	4,226.54	1/4	3,863.57	1/4	3,500.60	1/4	3,137.63	1/4	2,774.66	1/4	2,411.60		
1/2	1/2	5,245.30	4,910.43	1/2	4,574.23	1/2	4,218.98	1/2	3,856.01	1/2	3,493.04	1/2	3,130.07	1/2	2,767.10	1/2	2,404.04		
3/4	3/4	5,240.18	4,903.62	3/4	4,567.01	3/4	4,211.42	3/4	3,848.45	3/4	3,485.48	3/4	3,122.51	3/4	2,759.53	3/4	2,396.47		
1	1	5,235.05	4,896.81	1	4,559.79	1	4,203.86	1	3,840.89	1	3,477.91	1	3,114.94	1	2,751.97	1	2,388.91		
1/4	1/4	5,229.93	4,890.00	1/4	4,552.57	1/4	4,196.30	1/4	3,833.32	1/4	3,470.35	1/4	3,107.38	1/4	2,744.41	1/4	2,381.34		
1/2	1/2	5,223.59	4,883.16	1/2	4,545.32	1/2	4,188.73	1/2	3,825.76	1/2	3,462.79	1/2	3,099.82	1/2	2,736.85	1/2	2,373.78		
3/4	3/4	5,217.25	4,876.32	3/4	4,538.07	3/4	4,181.17	3/4	3,818.20	3/4	3,455.23	3/4	3,092.26	3/4	2,729.29	3/4	2,366.21		
2	2	5,210.91	4,869.49	2	4,530.81	2	4,173.61	2	3,810.64	2	3,447.67	2	3,084.70	2	2,721.72	2	2,358.65		
1/4	1/4	5,204.57	4,862.65	1/4	4,523.56	1/4	4,166.05	1/4	3,803.08	1/4	3,440.11	1/4	3,077.13	1/4	2,714.16	1/4	2,351.08		
1/2	1/2	5,197.24	4,855.78	1/2	4,516.28	1/2	4,158.49	1/2	3,795.51	1/2	3,432.54	1/2	3,069.57	1/2	2,706.60	1/2	2,343.52		
3/4	3/4	5,189.91	4,848.91	3/4	4,508.99	3/4	4,150.92	3/4	3,787.95	3/4	3,424.98	3/4	3,062.01	3/4	2,699.04	3/4	2,335.96		
3	3	5,182.59	4,842.04	3	4,501.71	3	4,143.36	3	3,780.39	3	3,417.42	3	3,054.45	3	2,691.48	3	2,328.39		
1/4	1/4	5,175.26	4,835.17	1/4	4,494.43	1/4	4,135.80	1/4	3,772.83	1/4	3,409.86	1/4	3,046.89	1/4	2,683.92	1/4	2,320.83		
1/2	1/2	5,167.80	4,828.26	1/2	4,487.11	1/2	4,128.24	1/2	3,765.27	1/2	3,402.30	1/2	3,039.32	1/2	2,676.35	1/2	2,313.26		
3/4	3/4	5,160.33	4,821.36	3/4	4,479.80	3/4	4,120.68	3/4	3,757.71	3/4	3,394.73	3/4	3,031.76	3/4	2,668.79	3/4	2,305.70		
4	4	5,152.87	4,814.46	4	4,472.49	4	4,113.11	4	3,750.14	4	3,387.17	4	3,024.20	4	2,661.23	4	2,298.13		
1/4	1/4	5,145.41	4,807.55	1/4	4,465.17	1/4	4,105.55	1/4	3,742.58	1/4	3,379.61	1/4	3,016.64	1/4	2,653.67	1/4	2,290.57		
1/2	1/2	5,137.94	4,800.62	1/2	4,457.83	1/2	4,097.99	1/2	3,735.02	1/2	3,372.05	1/2	3,009.08	1/2	2,646.10	1/2	2,283.00		
3/4	3/4	5,130.48	4,793.68	3/4	4,450.48	3/4	4,090.43	3/4	3,727.46	3/4	3,364.49	3/4	3,001.52	3/4	2,638.54	3/4	2,275.44		
5	5	5,123.02	4,786.74	5	4,443.13	5	4,082.87	5	3,719.90	5	3,356.92	5	2,993.95	5	2,630.98	5	2,267.87		
1/4	1/4	5,115.55	4,779.80	1/4	4,435.78	1/4	4,075.31	1/4	3,712.33	1/4	3,349.36	1/4	2,986.39	1/4	2,623.41	1/4	2,260.31		
1/2	1/2	5,108.09	4,772.84	1/2	4,428.40	1/2	4,067.74	1/2	3,704.77	1/2	3,341.80	1/2	2,978.83	1/2	2,615.85	1/2	2,252.74		
3/4	3/4	5,100.63	4,765.87	3/4	4,421.02	3/4	4,060.18	3/4	3,697.21	3/4	3,334.24	3/4	2,971.27	3/4	2,608.28	3/4	2,245.18		
6	6	5,093.16	4,758.90	6	4,413.64	6	4,052.62	6	3,689.65	6	3,326.68	6	2,963.71	6	2,600.72	6	2,237.61		
1/4	1/4	5,085.70	4,751.94	1/4	4,406.26	1/4	4,045.06	1/4	3,682.09	1/4	3,319.11	1/4	2,956.14	1/4	2,593.16	1/4	2,230.05		
1/2	1/2	5,078.24	4,744.93	1/2	4,398.85	1/2	4,037.50	1/2	3,674.52	1/2	3,311.55	1/2	2,948.58	1/2	2,585.59	1/2	2,222.49		
3/4	3/4	5,070.77	4,737.93	3/4	4,391.44	3/4	4,029.93	3/4	3,666.96	3/4	3,303.99	3/4	2,941.02	3/4	2,578.03	3/4	2,214.92		
7	7	5,063.31	4,730.93	7	4,384.02	7	4,022.37	7	3,659.40	7	3,296.43	7	2,933.46	7	2,570.46	7	2,207.36		
1/4	1/4	5,055.84	4,723.93	1/4	4,376.61	1/4	4,014.81	1/4	3,651.84	1/4	3,288.87	1/4	2,925.90	1/4	2,562.90	1/4	2,199.79		
1/2	1/2	5,048.43	4,716.87	1/2	4,369.17	1/2	4,007.25	1/2	3,644.28	1/2	3,281.31	1/2	2,918.33	1/2	2,555.33	1/2	2,192.23		
3/4	3/4	5,041.02	4,709.81	3/4	4,361.73	3/4	3,999.69	3/4	3,636.71	3/4	3,273.74	3/4	2,910.77	3/4	2,547.77	3/4	2,184.66		
8	8	5,033.61	4,702.75	8	4,354.29	8	3,992.12	8	3,629.15	8	3,266.18	8	2,903.21	8	2,540.20	8	2,177.10		
1/4	1/4	5,026.20	4,695.69	1/4	4,346.85	1/4	3,984.56	1/4	3,621.59	1/4	3,258.62	1/4	2,895.65	1/4	2,532.64	1/4	2,169.53		
1/2	1/2	5,019.20	4,688.59	1/2	4,339.38	1/2	3,977.00	1/2	3,614.03	1/2	3,251.06	1/2	2,888.09	1/2	2,525.07	1/2	2,161.97		
3/4	3/4	5,012.20	4,681.50	3/4	4,331.90	3/4	3,969.44	3/4	3,606.47	3/4	3,243.50	3/4	2,880.52	3/4	2,517.51	3/4	2,154.40		
9	9	5,005.20	4,674.40	9	4,324.43	9	3,961.88	9	3,598.91	9	3,235.93	9	2,872.96	9	2,509.94	9	2,146.84		
1/4	1/4	4,998.19	4,667.31	1/4	4,316.96	1/4	3,954.31	1/4	3,591.34	1/4	3,228.37	1/4	2,865.40	1/4	2,502.38	1/4	2,139.27		
1/2	1/2	4,991.48	4,660.18	1/2	4,309.45	1/2	3,946.75	1/2	3,583.78	1/2	3,220.81	1/2	2,857.84	1/2	2,494.81	1/2	2,131.71		
3/4	3/4	4,984.77	4,653.06	3/4	4,301.95	3/4	3,939.19	3/4	3,576.22	3/4	3,213.25	3/4	2,850.28	3/4	2,487.25	3/4	2,124.14		
10	10	4,978.05	4,645.93	10	4,294.44	10	3,931.63	10	3,568.66	10	3,205.69	10	2,842.72	10	2,479.68	10	2,116.58		
1/4	1/4	4,971.34	4,638.81	1/4	4,286.93	1/4	3,924.07	1/4	3,561.10	1/4	3,198.12	1/4	2,835.15	1/4	2,472.12	1/4	2,109.01		
1/2	1/2	4,964.59	4,631.66	1/2	4,279.40	1/2	3,916.51	1/2	3,553.53	1/2	3,190.56	1/2	2,827.59	1/2	2,464.56	1/2	2,101.45		
3/4	3/4	4,957.85	4,624.50	3/4	4,271.86	3/4	3,908.94	3/4	3,545.97	3/4	3,183.00	3/4	2,820.03	3/4	2,456.99	3/4	2,093.89		
11	11	4,951.10	4,617.35	11	4,264.32	11	3,901.38	11	3,538.41	11	3,175.44	11	2,812.47	11	2,449.43	11	2,086.32		
1/4	1/4	4,944.35	4,610.19	1/4	4,256.78	1/4	3,893.82	1/4	3,530.85	1/4	3,167.88	1/4	2,804.91	1/4	2,441.86	1/4	2,078.76		
1/2	1/2	4,937.57	4,603.01	1/2	4,249.22	1/2	3,886.26	1/2	3,523.29	1/2	3,160.32	1/2	2,797.34	1/2	2,434.30	1/2	2,071.19		
3/4	3/4	4,930.79	4,595.82	3/4	4,241.66	3/4	3,878.70	3/4	3,515.72	3/4	3,152.75	3/4	2,789.78	3/4	2,426.73	3/4	2,063.63		

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 515B"

1 PORT ULLAGE 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	2,056.06	0	1,692.96	0	1,329.85	0	967.18	0	604.14	0	244.52	0		0		0		0	
1/4	2,048.50	1/4	1,685.39	1/4	1,322.29	1/4	959.63	1/4	596.58	1/4	237.10	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,040.93	1/2	1,677.83	1/2	1,314.72	1/2	952.07	1/2	589.01	1/2	229.69	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.37	3/4	1,670.26	3/4	1,307.16	3/4	944.52	3/4	581.45	3/4	222.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,025.80	1	1,662.70	1	1,299.59	1	936.96	1	573.88	1	214.85	1	1	1	1	1	1	1	1
1/4	2,018.24	1/4	1,655.13	1/4	1,292.03	1/4	929.41	1/4	566.32	1/4	207.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.67	1/2	1,647.57	1/2	1,284.46	1/2	921.85	1/2	558.75	1/2	200.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.11	3/4	1,640.00	3/4	1,276.90	3/4	914.28	3/4	551.19	3/4	192.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,995.54	2	1,632.44	2	1,269.33	2	906.72	2	543.63	2	185.14	2	2	2	2	2	2	2	2
1/4	1,987.98	1/4	1,624.87	1/4	1,261.77	1/4	899.15	1/4	536.06	1/4	177.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,980.41	1/2	1,617.31	1/2	1,254.20	1/2	891.59	1/2	528.50	1/2	170.15	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.85	3/4	1,609.74	3/4	1,246.64	3/4	884.02	3/4	520.93	3/4	162.61	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,965.29	3	1,602.18	3	1,239.08	3	876.46	3	513.37	3	155.06	3	3	3	3	3	3	3	3
1/4	1,957.72	1/4	1,594.61	1/4	1,231.51	1/4	868.90	1/4	505.80	1/4	147.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,950.16	1/2	1,587.05	1/2	1,223.96	1/2	861.33	1/2	498.24	1/2	139.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.59	3/4	1,579.49	3/4	1,216.41	3/4	853.77	3/4	490.68	3/4	132.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,935.03	4	1,571.92	4	1,208.86	4	846.20	4	483.11	4	124.86	4	4	4	4	4	4	4	4
1/4	1,927.46	1/4	1,564.36	1/4	1,201.30	1/4	838.64	1/4	475.55	1/4	117.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.90	1/2	1,556.79	1/2	1,193.75	1/2	831.07	1/2	467.98	1/2	109.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.33	3/4	1,549.23	3/4	1,186.20	3/4	823.51	3/4	460.42	3/4	102.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,904.77	5	1,541.66	5	1,178.65	5	815.94	5	452.85	5	94.90	5	5	5	5	5	5	5	5
1/4	1,897.20	1/4	1,534.10	1/4	1,171.09	1/4	808.38	1/4	445.29	1/4	87.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.64	1/2	1,526.53	1/2	1,163.54	1/2	800.82	1/2	437.74	1/2	80.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.07	3/4	1,518.97	3/4	1,155.99	3/4	793.25	3/4	430.20	3/4	73.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,874.51	6	1,511.40	6	1,148.44	6	785.69	6	422.65	6	67.14	6	6	6	6	6	6	6	6
1/4	1,866.94	1/4	1,503.84	1/4	1,140.89	1/4	778.12	1/4	415.10	1/4	60.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.38	1/2	1,496.27	1/2	1,133.33	1/2	770.56	1/2	407.69	1/2	54.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,851.81	3/4	1,488.71	3/4	1,125.78	3/4	762.99	3/4	400.27	3/4	49.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,844.25	7	1,481.14	7	1,118.23	7	755.43	7	392.85	7	43.88	7	7	7	7	7	7	7	7
1/4	1,836.69	1/4	1,473.58	1/4	1,110.68	1/4	747.86	1/4	385.44	1/4	38.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.12	1/2	1,466.02	1/2	1,103.12	1/2	740.30	1/2	378.02	1/2	34.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,821.56	3/4	1,458.45	3/4	1,095.57	3/4	732.74	3/4	370.60	3/4	29.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,813.99	8	1,450.89	8	1,088.02	8	725.17	8	363.19	8	25.66	8	8	8	8	8	8	8	8
1/4	1,806.43	1/4	1,443.32	1/4	1,080.47	1/4	717.61	1/4	355.77	1/4	21.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,798.86	1/2	1,435.76	1/2	1,072.91	1/2	710.04	1/2	348.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.30	3/4	1,428.19	3/4	1,065.36	3/4	702.48	3/4	340.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,783.73	9	1,420.63	9	1,057.81	9	694.91	9	333.52	9		9	9	9	9	9	9	9	9
1/4	1,776.17	1/4	1,413.06	1/4	1,050.26	1/4	687.35	1/4	326.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,768.60	1/2	1,405.50	1/2	1,042.70	1/2	679.79	1/2	318.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,761.04	3/4	1,397.93	3/4	1,035.15	3/4	672.22	3/4	311.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,753.47	10	1,390.37	10	1,027.60	10	664.66	10	303.85	10		10	10	10	10	10	10	10	10
1/4	1,745.91	1/4	1,382.80	1/4	1,020.05	1/4	657.09	1/4	296.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,738.34	1/2	1,375.24	1/2	1,012.49	1/2	649.53	1/2	289.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,730.78	3/4	1,367.67	3/4	1,004.94	3/4	641.96	3/4	281.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,723.21	11	1,360.11	11	997.39	11	634.40	11	274.19	11		11	11	11	11	11	11	11	11
1/4	1,715.65	1/4	1,352.54	1/4	989.84	1/4	626.83	1/4	266.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,708.09	1/2	1,344.98	1/2	982.28	1/2	619.27	1/2	259.35	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,700.52	3/4	1,337.42	3/4	974.73	3/4	611.71	3/4	251.94	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: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

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	4,931.88	0	4,596.70	0	4,242.31	0	3,879.11	0	3,515.91	0	3,152.70	0	2,789.50	0	2,426.41		
1/4	1/4	1/4	4,925.10	1/4	4,589.51	1/4	4,234.75	1/4	3,871.55	1/4	3,508.34	1/4	3,145.13	1/4	2,781.93	1/4	2,418.84		
1/2	1/2	1/2	5,251.71	1/2	4,918.32	1/2	4,582.32	1/2	4,227.19	1/2	3,863.98	1/2	3,500.77	1/2	3,137.57	1/2	2,774.37	1/2	2,411.27
3/4	3/4	3/4	5,246.58	3/4	4,911.50	3/4	4,575.09	3/4	4,219.62	3/4	3,856.41	3/4	3,493.21	3/4	3,130.00	3/4	2,766.81	3/4	2,403.70
1	1	1	5,241.45	1	4,904.69	1	4,567.87	1	4,212.05	1	3,848.85	1	3,485.64	1	3,122.43	1	2,759.26	1	2,396.13
1/4	1/4	1/4	5,236.32	1/4	4,897.88	1/4	4,560.65	1/4	4,204.49	1/4	3,841.28	1/4	3,478.07	1/4	3,114.87	1/4	2,751.70	1/4	2,388.56
1/2	1/2	1/2	5,231.20	1/2	4,891.06	1/2	4,553.42	1/2	4,196.92	1/2	3,833.71	1/2	3,470.51	1/2	3,107.30	1/2	2,744.15	1/2	2,380.99
3/4	3/4	3/4	5,224.85	3/4	4,884.22	3/4	4,546.16	3/4	4,189.35	3/4	3,826.15	3/4	3,462.94	3/4	3,099.73	3/4	2,736.59	3/4	2,373.42
2	2	2	5,218.51	2	4,877.38	2	4,538.91	2	4,181.78	2	3,818.58	2	3,455.37	2	3,092.17	2	2,729.04	2	2,365.85
1/4	1/4	1/4	5,212.16	1/4	4,870.53	1/4	4,531.65	1/4	4,174.22	1/4	3,811.01	1/4	3,447.81	1/4	3,084.60	1/4	2,721.48	1/4	2,358.28
1/2	1/2	1/2	5,205.82	1/2	4,863.69	1/2	4,524.39	1/2	4,166.65	1/2	3,803.44	1/2	3,440.24	1/2	3,077.03	1/2	2,713.93	1/2	2,350.71
3/4	3/4	3/4	5,198.49	3/4	4,856.82	3/4	4,517.10	3/4	4,159.08	3/4	3,795.88	3/4	3,432.67	3/4	3,069.47	3/4	2,706.37	3/4	2,343.14
3	3	3	5,191.16	3	4,849.94	3	4,509.82	3	4,151.52	3	3,788.31	3	3,425.10	3	3,061.90	3	2,698.82	3	2,335.57
1/4	1/4	1/4	5,183.83	1/4	4,843.07	1/4	4,502.53	1/4	4,143.95	1/4	3,780.74	1/4	3,417.54	1/4	3,054.33	1/4	2,691.27	1/4	2,328.00
1/2	1/2	1/2	5,176.50	1/2	4,836.20	1/2	4,495.24	1/2	4,136.38	1/2	3,773.18	1/2	3,409.97	1/2	3,046.76	1/2	2,683.71	1/2	2,320.43
3/4	3/4	3/4	5,169.04	3/4	4,829.29	3/4	4,487.92	3/4	4,128.82	3/4	3,765.61	3/4	3,402.40	3/4	3,039.20	3/4	2,676.16	3/4	2,312.86
4	4	4	5,161.57	4	4,822.38	4	4,480.60	4	4,121.25	4	3,758.04	4	3,394.84	4	3,031.63	4	2,668.60	4	2,305.29
1/4	1/4	1/4	5,154.10	1/4	4,815.47	1/4	4,473.29	1/4	4,113.68	1/4	3,750.48	1/4	3,387.27	1/4	3,024.06	1/4	2,661.04	1/4	2,297.72
1/2	1/2	1/2	5,146.63	1/2	4,808.56	1/2	4,465.97	1/2	4,106.12	1/2	3,742.91	1/2	3,379.70	1/2	3,016.50	1/2	2,653.49	1/2	2,290.15
3/4	3/4	3/4	5,139.16	3/4	4,801.62	3/4	4,458.62	3/4	4,098.55	3/4	3,735.34	3/4	3,372.14	3/4	3,008.93	3/4	2,645.92	3/4	2,282.58
5	5	5	5,131.69	5	4,794.68	5	4,451.26	5	4,090.98	5	3,727.78	5	3,364.57	5	3,001.36	5	2,638.35	5	2,275.01
1/4	1/4	1/4	5,124.23	1/4	4,787.74	1/4	4,443.91	1/4	4,083.42	1/4	3,720.21	1/4	3,357.00	1/4	2,993.80	1/4	2,630.78	1/4	2,267.44
1/2	1/2	1/2	5,116.76	1/2	4,780.80	1/2	4,436.56	1/2	4,075.85	1/2	3,712.64	1/2	3,349.44	1/2	2,986.23	1/2	2,623.21	1/2	2,259.87
3/4	3/4	3/4	5,109.29	3/4	4,773.83	3/4	4,429.17	3/4	4,068.28	3/4	3,705.08	3/4	3,341.87	3/4	2,978.66	3/4	2,615.65	3/4	2,252.30
6	6	6	5,101.82	6	4,766.85	6	4,421.79	6	4,060.72	6	3,697.51	6	3,334.30	6	2,971.10	6	2,608.08	6	2,244.73
1/4	1/4	1/4	5,094.35	1/4	4,759.88	1/4	4,414.40	1/4	4,053.15	1/4	3,689.94	1/4	3,326.74	1/4	2,963.53	1/4	2,600.51	1/4	2,237.17
1/2	1/2	1/2	5,086.88	1/2	4,752.91	1/2	4,407.01	1/2	4,045.58	1/2	3,682.38	1/2	3,319.17	1/2	2,955.96	1/2	2,592.94	1/2	2,229.60
3/4	3/4	3/4	5,079.42	3/4	4,745.91	3/4	4,399.60	3/4	4,038.02	3/4	3,674.81	3/4	3,311.60	3/4	2,948.40	3/4	2,585.37	3/4	2,222.03
7	7	7	5,071.95	7	4,738.90	7	4,392.18	7	4,030.45	7	3,667.24	7	3,304.04	7	2,940.83	7	2,577.80	7	2,214.46
1/4	1/4	1/4	5,064.48	1/4	4,731.89	1/4	4,384.77	1/4	4,022.88	1/4	3,659.68	1/4	3,296.47	1/4	2,933.26	1/4	2,570.23	1/4	2,206.89
1/2	1/2	1/2	5,057.01	1/2	4,724.89	1/2	4,377.35	1/2	4,015.32	1/2	3,652.11	1/2	3,288.90	1/2	2,925.70	1/2	2,562.66	1/2	2,199.32
3/4	3/4	3/4	5,049.59	3/4	4,717.82	3/4	4,369.90	3/4	4,007.75	3/4	3,644.54	3/4	3,281.34	3/4	2,918.13	3/4	2,555.09	3/4	2,191.75
8	8	8	5,042.18	8	4,710.76	8	4,362.46	8	4,000.18	8	3,636.98	8	3,273.77	8	2,910.56	8	2,547.52	8	2,184.18
1/4	1/4	1/4	5,034.76	1/4	4,703.69	1/4	4,355.01	1/4	3,992.61	1/4	3,629.41	1/4	3,266.20	1/4	2,903.00	1/4	2,539.95	1/4	2,176.61
1/2	1/2	1/2	5,027.35	1/2	4,696.63	1/2	4,347.57	1/2	3,985.05	1/2	3,621.84	1/2	3,258.64	1/2	2,895.43	1/2	2,532.38	1/2	2,169.04
3/4	3/4	3/4	5,020.34	3/4	4,689.53	3/4	4,340.09	3/4	3,977.48	3/4	3,614.27	3/4	3,251.07	3/4	2,887.86	3/4	2,524.81	3/4	2,161.47
9	9	9	5,013.34	9	4,682.43	9	4,332.61	9	3,969.91	9	3,606.71	9	3,243.50	9	2,880.30	9	2,517.24	9	2,153.90
1/4	1/4	1/4	5,006.33	1/4	4,675.33	1/4	4,325.14	1/4	3,962.35	1/4	3,599.14	1/4	3,235.93	1/4	2,872.73	1/4	2,509.67	1/4	2,146.33
1/2	1/2	1/2	4,999.32	1/2	4,668.23	1/2	4,317.66	1/2	3,954.78	1/2	3,591.57	1/2	3,228.37	1/2	2,865.16	1/2	2,502.10	1/2	2,138.76
3/4	3/4	3/4	4,992.61	3/4	4,661.10	3/4	4,310.15	3/4	3,947.21	3/4	3,584.01	3/4	3,220.80	3/4	2,857.59	3/4	2,494.53	3/4	2,131.19
10	10	10	4,985.89	10	4,653.97	10	4,302.64	10	3,939.65	10	3,576.44	10	3,213.23	10	2,850.03	10	2,486.96	10	2,123.62
1/4	1/4	1/4	4,979.17	1/4	4,646.84	1/4	4,295.13	1/4	3,932.08	1/4	3,568.87	1/4	3,205.67	1/4	2,842.46	1/4	2,479.39	1/4	2,116.05
1/2	1/2	1/2	4,972.45	1/2	4,639.71	1/2	4,287.61	1/2	3,924.51	1/2	3,561.31	1/2	3,198.10	1/2	2,834.89	1/2	2,471.82	1/2	2,108.48
3/4	3/4	3/4	4,965.70	3/4	4,632.56	3/4	4,280.07	3/4	3,916.95	3/4	3,553.74	3/4	3,190.53	3/4	2,827.33	3/4	2,464.25	3/4	2,100.91
11	11	11	4,958.95	11	4,625.40	11	4,272.53	11	3,909.38	11	3,546.17	11	3,182.97	11	2,819.76	11	2,456.68	11	2,093.34
1/4	1/4	1/4	4,952.20	1/4	4,618.24	1/4	4,264.98	1/4	3,901.81	1/4	3,538.61	1/4	3,175.40	1/4	2,812.19	1/4	2,449.11	1/4	2,085.77
1/2	1/2	1/2	4,945.45	1/2	4,611.08	1/2	4,257.44	1/2	3,894.25	1/2	3,531.04	1/2	3,167.83	1/2	2,804.63	1/2	2,441.54	1/2	2,078.20
3/4	3/4	3/4	4,938.67	3/4	4,603.89	3/4	4,249.88	3/4	3,886.68	3/4	3,523.47	3/4	3,160.27	3/4	2,797.06	3/4	2,433.97	3/4	2,070.63

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 515B"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,063.06	0	1,699.72	0	1,336.38	0	974.99	0	612.10	0	252.10	0		0		0		0	
1/4	2,055.49	1/4	1,692.15	1/4	1,328.81	1/4	967.47	1/4	604.53	1/4	244.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,047.93	1/2	1,684.58	1/2	1,321.24	1/2	959.95	1/2	596.96	1/2	237.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,040.36	3/4	1,677.01	3/4	1,313.67	3/4	952.43	3/4	589.39	3/4	229.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,032.79	1	1,669.45	1	1,306.10	1	944.91	1	581.82	1	222.42	1	1	1	1	1	1	1	1
1/4	2,025.22	1/4	1,661.88	1/4	1,298.53	1/4	937.39	1/4	574.25	1/4	214.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,017.65	1/2	1,654.31	1/2	1,290.97	1/2	929.87	1/2	566.68	1/2	207.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,010.08	3/4	1,646.74	3/4	1,283.40	3/4	922.34	3/4	559.12	3/4	200.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,002.51	2	1,639.17	2	1,275.84	2	914.80	2	551.55	2	192.70	2	2	2	2	2	2	2	2
1/4	1,994.94	1/4	1,631.60	1/4	1,268.27	1/4	907.27	1/4	543.98	1/4	185.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,987.37	1/2	1,624.03	1/2	1,260.71	1/2	899.73	1/2	536.41	1/2	177.82	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,979.80	3/4	1,616.46	3/4	1,253.18	3/4	892.16	3/4	528.84	3/4	170.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,972.23	3	1,608.89	3	1,245.65	3	884.60	3	521.27	3	162.71	3	3	3	3	3	3	3	3
1/4	1,964.66	1/4	1,601.32	1/4	1,238.12	1/4	877.03	1/4	513.70	1/4	155.16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,957.09	1/2	1,593.75	1/2	1,230.59	1/2	869.46	1/2	506.13	1/2	147.60	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,949.52	3/4	1,586.18	3/4	1,223.07	3/4	861.89	3/4	498.56	3/4	140.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,941.95	4	1,578.61	4	1,215.56	4	854.32	4	490.99	4	132.49	4	4	4	4	4	4	4	4
1/4	1,934.38	1/4	1,571.04	1/4	1,208.04	1/4	846.75	1/4	483.42	1/4	124.94	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,926.81	1/2	1,563.47	1/2	1,200.52	1/2	839.18	1/2	475.85	1/2	117.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,919.24	3/4	1,555.90	3/4	1,193.00	3/4	831.61	3/4	468.28	3/4	109.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,911.67	5	1,548.33	5	1,185.49	5	824.04	5	460.71	5	102.43	5	5	5	5	5	5	5	5
1/4	1,904.10	1/4	1,540.76	1/4	1,177.97	1/4	816.47	1/4	453.15	1/4	94.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,896.53	1/2	1,533.19	1/2	1,170.45	1/2	808.90	1/2	445.58	1/2	87.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,888.96	3/4	1,525.62	3/4	1,162.93	3/4	801.33	3/4	438.02	3/4	80.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,881.39	6	1,518.05	6	1,155.41	6	793.76	6	430.47	6	73.95	6	6	6	6	6	6	6	6
1/4	1,873.82	1/4	1,510.48	1/4	1,147.90	1/4	786.19	1/4	422.92	1/4	67.18	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,866.25	1/2	1,502.91	1/2	1,140.38	1/2	778.63	1/2	415.37	1/2	60.42	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,858.69	3/4	1,495.34	3/4	1,132.86	3/4	771.06	3/4	407.95	3/4	54.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,851.12	7	1,487.77	7	1,125.34	7	763.49	7	400.53	7	49.41	7	7	7	7	7	7	7	7
1/4	1,843.55	1/4	1,480.21	1/4	1,117.83	1/4	755.92	1/4	393.11	1/4	43.91	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,835.98	1/2	1,472.64	1/2	1,110.31	1/2	748.35	1/2	385.69	1/2	38.40	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,828.41	3/4	1,465.07	3/4	1,102.79	3/4	740.78	3/4	378.26	3/4	34.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,820.84	8	1,457.50	8	1,095.27	8	733.21	8	370.84	8	29.92	8	8	8	8	8	8	8	8
1/4	1,813.27	1/4	1,449.93	1/4	1,087.75	1/4	725.64	1/4	363.42	1/4	25.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,805.70	1/2	1,442.36	1/2	1,080.24	1/2	718.07	1/2	356.00	1/2	21.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,798.13	3/4	1,434.79	3/4	1,072.72	3/4	710.50	3/4	348.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,790.56	9	1,427.22	9	1,065.20	9	702.93	9	341.16	9		9	9	9	9	9	9	9	9
1/4	1,782.99	1/4	1,419.65	1/4	1,057.68	1/4	695.36	1/4	333.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,775.42	1/2	1,412.08	1/2	1,050.16	1/2	687.79	1/2	326.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.85	3/4	1,404.51	3/4	1,042.65	3/4	680.22	3/4	318.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,760.28	10	1,396.94	10	1,035.13	10	672.66	10	311.47	10		10	10	10	10	10	10	10	10
1/4	1,752.71	1/4	1,389.37	1/4	1,027.61	1/4	665.09	1/4	304.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,745.14	1/2	1,381.80	1/2	1,020.09	1/2	657.52	1/2	296.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,737.57	3/4	1,374.23	3/4	1,012.58	3/4	649.95	3/4	289.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,730.00	11	1,366.66	11	1,005.06	11	642.38	11	281.79	11		11	11	11	11	11	11	11	11
1/4	1,722.43	1/4	1,359.09	1/4	997.54	1/4	634.81	1/4	274.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,714.86	1/2	1,351.52	1/2	990.02	1/2	627.24	1/2	266.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,707.29	3/4	1,343.95	3/4	982.50	3/4	619.67	3/4	259.52	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: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

2 PORT 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	5,224.34	0	4,892.82	0	4,558.71	0	4,205.59	0	3,844.41	0	3,483.23	0	3,122.06	0	2,760.88	0	2,399.63	
1/4	1/4	5,219.24	1/4	4,886.04	1/4	4,551.52	1/4	4,198.06	1/4	3,836.88	1/4	3,475.71	1/4	3,114.53	1/4	2,723.36	1/4	2,392.10	
1/2	1/2	5,214.14	1/2	4,879.27	1/2	4,544.34	1/2	4,190.54	1/2	3,829.36	1/2	3,468.18	1/2	3,107.01	1/2	2,745.83	1/2	2,384.57	
3/4	3/4	5,209.04	3/4	4,872.49	3/4	4,537.15	3/4	4,183.01	3/4	3,821.84	3/4	3,460.66	3/4	3,099.48	3/4	2,738.31	3/4	2,377.05	
1	1	5,203.94	1	4,865.72	1	4,529.97	1	4,175.49	1	3,814.31	1	3,453.14	1	3,091.96	1	2,730.78	1	2,369.52	
1/4	1/4	5,197.64	1/4	4,858.91	1/4	4,522.75	1/4	4,167.96	1/4	3,806.79	1/4	3,445.61	1/4	3,084.43	1/4	2,723.26	1/4	2,361.99	
1/2	1/2	5,191.33	1/2	4,852.11	1/2	4,515.54	1/2	4,160.44	1/2	3,799.26	1/2	3,438.09	1/2	3,076.91	1/2	2,715.73	1/2	2,354.46	
3/4	3/4	5,185.02	3/4	4,845.31	3/4	4,508.32	3/4	4,152.91	3/4	3,791.74	3/4	3,430.56	3/4	3,069.39	3/4	2,708.21	3/4	2,346.94	
2	2	5,178.71	2	4,838.50	2	4,501.10	2	4,145.39	2	3,784.21	2	3,423.04	2	3,061.86	2	2,700.69	2	2,339.41	
1/4	1/4	5,171.42	1/4	4,831.67	1/4	4,493.86	1/4	4,137.86	1/4	3,776.69	1/4	3,415.51	1/4	3,054.34	1/4	2,693.16	1/4	2,331.88	
1/2	1/2	5,164.13	1/2	4,824.83	1/2	4,486.61	1/2	4,130.34	1/2	3,769.16	1/2	3,407.99	1/2	3,046.81	1/2	2,685.64	1/2	2,324.36	
3/4	3/4	5,156.84	3/4	4,817.99	3/4	4,479.36	3/4	4,122.82	3/4	3,761.64	3/4	3,400.46	3/4	3,039.29	3/4	2,678.11	3/4	2,316.83	
3	3	5,149.55	3	4,811.16	3	4,472.12	3	4,115.29	3	3,754.12	3	3,392.94	3	3,031.76	3	2,670.59	3	2,309.30	
1/4	1/4	5,142.13	1/4	4,804.29	1/4	4,464.84	1/4	4,107.77	1/4	3,746.59	1/4	3,385.41	1/4	3,024.24	1/4	2,663.06	1/4	2,301.77	
1/2	1/2	5,134.70	1/2	4,797.42	1/2	4,457.56	1/2	4,100.24	1/2	3,739.07	1/2	3,377.89	1/2	3,016.71	1/2	2,655.54	1/2	2,294.25	
3/4	3/4	5,127.27	3/4	4,790.55	3/4	4,450.28	3/4	4,092.72	3/4	3,731.54	3/4	3,370.37	3/4	3,009.19	3/4	2,648.01	3/4	2,286.72	
4	4	5,119.85	4	4,783.68	4	4,443.01	4	4,085.19	4	3,724.02	4	3,362.84	4	3,001.67	4	2,640.49	4	2,279.19	
1/4	1/4	5,112.42	1/4	4,776.78	1/4	4,435.70	1/4	4,077.67	1/4	3,716.49	1/4	3,355.32	1/4	2,994.14	1/4	2,632.96	1/4	2,271.67	
1/2	1/2	5,104.99	1/2	4,769.88	1/2	4,428.39	1/2	4,070.14	1/2	3,708.97	1/2	3,347.79	1/2	2,986.62	1/2	2,625.44	1/2	2,264.14	
3/4	3/4	5,097.57	3/4	4,762.97	3/4	4,421.07	3/4	4,062.62	3/4	3,701.44	3/4	3,340.27	3/4	2,979.09	3/4	2,617.91	3/4	2,256.61	
5	5	5,090.14	5	4,756.07	5	4,413.76	5	4,055.10	5	3,693.92	5	3,332.74	5	2,971.57	5	2,610.39	5	2,249.08	
1/4	1/4	5,082.72	1/4	4,749.14	1/4	4,406.42	1/4	4,047.57	1/4	3,686.39	1/4	3,325.22	1/4	2,964.04	1/4	2,602.86	1/4	2,241.56	
1/2	1/2	5,075.29	1/2	4,742.21	1/2	4,399.07	1/2	4,040.05	1/2	3,678.87	1/2	3,317.69	1/2	2,956.52	1/2	2,595.34	1/2	2,234.03	
3/4	3/4	5,067.86	3/4	4,735.28	3/4	4,391.73	3/4	4,032.52	3/4	3,671.35	3/4	3,310.17	3/4	2,948.99	3/4	2,587.81	3/4	2,226.50	
6	6	5,060.44	6	4,728.34	6	4,384.38	6	4,025.00	6	3,663.82	6	3,302.65	6	2,941.47	6	2,580.28	6	2,218.98	
1/4	1/4	5,053.01	1/4	4,721.38	1/4	4,377.01	1/4	4,017.47	1/4	3,656.30	1/4	3,295.12	1/4	2,933.94	1/4	2,572.75	1/4	2,211.45	
1/2	1/2	5,045.58	1/2	4,714.41	1/2	4,369.64	1/2	4,009.95	1/2	3,648.77	1/2	3,287.60	1/2	2,926.42	1/2	2,565.23	1/2	2,203.92	
3/4	3/4	5,038.16	3/4	4,707.44	3/4	4,362.26	3/4	4,002.42	3/4	3,641.25	3/4	3,280.07	3/4	2,918.90	3/4	2,557.70	3/4	2,196.39	
7	7	5,030.73	7	4,700.48	7	4,354.89	7	3,994.90	7	3,633.72	7	3,272.55	7	2,911.37	7	2,550.17	7	2,188.87	
1/4	1/4	5,023.36	1/4	4,693.45	1/4	4,347.48	1/4	3,987.37	1/4	3,626.20	1/4	3,265.02	1/4	2,903.85	1/4	2,542.64	1/4	2,181.34	
1/2	1/2	5,015.98	1/2	4,686.43	1/2	4,340.08	1/2	3,979.85	1/2	3,618.67	1/2	3,257.50	1/2	2,896.32	1/2	2,535.12	1/2	2,173.81	
3/4	3/4	5,008.61	3/4	4,679.40	3/4	4,332.67	3/4	3,972.33	3/4	3,611.15	3/4	3,249.97	3/4	2,888.80	3/4	2,527.59	3/4	2,166.28	
8	8	5,001.24	8	4,672.37	8	4,325.27	8	3,964.80	8	3,603.63	8	3,242.45	8	2,881.27	8	2,520.06	8	2,158.76	
1/4	1/4	4,994.27	1/4	4,665.31	1/4	4,317.83	1/4	3,957.28	1/4	3,596.10	1/4	3,234.92	1/4	2,873.75	1/4	2,512.54	1/4	2,151.23	
1/2	1/2	4,987.30	1/2	4,658.26	1/2	4,310.40	1/2	3,949.75	1/2	3,588.58	1/2	3,227.40	1/2	2,866.22	1/2	2,505.01	1/2	2,143.70	
3/4	3/4	4,980.34	3/4	4,651.20	3/4	4,302.96	3/4	3,942.23	3/4	3,581.05	3/4	3,219.88	3/4	2,858.70	3/4	2,497.48	3/4	2,136.18	
9	9	4,973.37	9	4,644.14	9	4,295.53	9	3,934.70	9	3,573.53	9	3,212.35	9	2,851.18	9	2,489.95	9	2,128.65	
1/4	1/4	4,966.69	1/4	4,637.05	1/4	4,288.06	1/4	3,927.18	1/4	3,566.00	1/4	3,204.83	1/4	2,843.65	1/4	2,482.43	1/4	2,121.12	
1/2	1/2	4,960.01	1/2	4,629.96	1/2	4,280.59	1/2	3,919.65	1/2	3,558.48	1/2	3,197.30	1/2	2,836.13	1/2	2,474.90	1/2	2,113.59	
3/4	3/4	4,953.33	3/4	4,622.87	3/4	4,273.12	3/4	3,912.13	3/4	3,550.95	3/4	3,189.78	3/4	2,828.60	3/4	2,467.37	3/4	2,106.07	
10	10	4,946.65	10	4,615.78	10	4,265.65	10	3,904.61	10	3,543.43	10	3,182.25	10	2,821.08	10	2,459.85	10	2,098.54	
1/4	1/4	4,939.94	1/4	4,608.66	1/4	4,258.15	1/4	3,897.08	1/4	3,535.90	1/4	3,174.73	1/4	2,813.55	1/4	2,452.32	1/4	2,091.01	
1/2	1/2	4,933.22	1/2	4,601.54	1/2	4,250.65	1/2	3,889.56	1/2	3,528.38	1/2	3,167.20	1/2	2,806.03	1/2	2,444.79	1/2	2,083.49	
3/4	3/4	4,926.51	3/4	4,594.42	3/4	4,243.15	3/4	3,882.03	3/4	3,520.86	3/4	3,159.68	3/4	2,798.50	3/4	2,437.26	3/4	2,075.96	
11	11	4,919.80	11	4,587.30	11	4,235.65	11	3,874.51	11	3,513.33	11	3,152.16	11	2,790.98	11	2,429.74	11	2,068.43	
1/4	1/4	4,913.05	1/4	4,580.15	1/4	4,228.13	1/4	3,866.98	1/4	3,505.81	1/4	3,144.63	1/4	2,783.45	1/4	2,422.21	1/4	2,060.90	
1/2	1/2	4,906.31	1/2	4,573.00	1/2	4,220.62	1/2	3,859.46	1/2	3,498.28	1/2	3,137.11	1/2	2,775.93	1/2	2,414.68	1/2	2,053.38	
3/4	3/4	4,899.56	3/4	4,565.85	3/4	4,213.10	3/4	3,851.93	3/4	3,490.76	3/4	3,129.58	3/4	2,768.41	3/4	2,407.16	3/4	2,045.85	

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 515B"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,038.32	0	1,677.02	0	1,315.71	0	954.85	0	593.60	0	235.92	0		0		0		0	
1/4	2,030.80	1/4	1,669.49	1/4	1,308.18	1/4	947.34	1/4	586.08	1/4	228.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,023.27	1/2	1,661.96	1/2	1,300.66	1/2	939.82	1/2	578.55	1/2	221.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,015.74	3/4	1,654.44	3/4	1,293.13	3/4	932.30	3/4	571.02	3/4	213.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,008.21	1	1,646.91	1	1,285.60	1	924.79	1	563.50	1	206.41	1	1	1	1	1	1	1	1
1/4	2,000.69	1/4	1,639.38	1/4	1,278.08	1/4	917.26	1/4	555.97	1/4	199.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,993.16	1/2	1,631.85	1/2	1,270.55	1/2	909.73	1/2	548.44	1/2	191.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,985.63	3/4	1,624.33	3/4	1,263.02	3/4	902.21	3/4	540.91	3/4	184.22	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,978.10	2	1,616.80	2	1,255.49	2	894.68	2	533.39	2	176.82	2	2	2	2	2	2	2	2
1/4	1,970.58	1/4	1,609.27	1/4	1,247.97	1/4	887.15	1/4	525.86	1/4	169.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,963.05	1/2	1,601.74	1/2	1,240.44	1/2	879.63	1/2	518.33	1/2	161.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,955.52	3/4	1,594.22	3/4	1,232.92	3/4	872.10	3/4	510.81	3/4	154.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,948.00	3	1,586.69	3	1,225.39	3	864.57	3	503.28	3	146.77	3	3	3	3	3	3	3	3
1/4	1,940.47	1/4	1,579.16	1/4	1,217.88	1/4	857.04	1/4	495.75	1/4	139.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,932.94	1/2	1,571.64	1/2	1,210.36	1/2	849.52	1/2	488.23	1/2	131.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,925.41	3/4	1,564.11	3/4	1,202.85	3/4	841.99	3/4	480.70	3/4	124.24	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,917.89	4	1,556.58	4	1,195.33	4	834.46	4	473.17	4	116.73	4	4	4	4	4	4	4	4
1/4	1,910.36	1/4	1,549.05	1/4	1,187.82	1/4	826.94	1/4	465.65	1/4	109.29	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,902.83	1/2	1,541.53	1/2	1,180.30	1/2	819.41	1/2	458.12	1/2	101.86	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,895.31	3/4	1,534.00	3/4	1,172.79	3/4	811.88	3/4	450.59	3/4	94.42	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,887.78	5	1,526.47	5	1,165.27	5	804.36	5	443.07	5	86.99	5	5	5	5	5	5	5	5
1/4	1,880.25	1/4	1,518.95	1/4	1,157.76	1/4	796.83	1/4	435.56	1/4	80.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,872.72	1/2	1,511.42	1/2	1,150.24	1/2	789.30	1/2	428.05	1/2	73.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,865.20	3/4	1,503.89	3/4	1,142.73	3/4	781.78	3/4	420.54	3/4	66.81	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,857.67	6	1,496.36	6	1,135.21	6	774.25	6	413.03	6	60.08	6	6	6	6	6	6	6	6
1/4	1,850.14	1/4	1,488.84	1/4	1,127.70	1/4	766.72	1/4	405.65	1/4	54.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,842.62	1/2	1,481.31	1/2	1,120.18	1/2	759.19	1/2	398.27	1/2	49.13	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,835.09	3/4	1,473.78	3/4	1,112.67	3/4	751.67	3/4	390.89	3/4	43.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,827.56	7	1,466.26	7	1,105.15	7	744.14	7	383.51	7	38.19	7	7	7	7	7	7	7	7
1/4	1,820.03	1/4	1,458.73	1/4	1,097.64	1/4	736.61	1/4	376.13	1/4	33.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,812.51	1/2	1,451.20	1/2	1,090.12	1/2	729.09	1/2	368.75	1/2	29.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,804.98	3/4	1,443.67	3/4	1,082.61	3/4	721.56	3/4	361.37	3/4	25.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,797.45	8	1,436.15	8	1,075.09	8	714.03	8	354.00	8	21.31	8	8	8	8	8	8	8	8
1/4	1,789.92	1/4	1,428.62	1/4	1,067.58	1/4	706.51	1/4	346.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,782.40	1/2	1,421.09	1/2	1,060.06	1/2	698.98	1/2	339.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,774.87	3/4	1,413.56	3/4	1,052.55	3/4	691.45	3/4	331.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,767.34	9	1,406.04	9	1,045.03	9	683.93	9	324.48	9		9	9	9	9	9	9	9	9
1/4	1,759.82	1/4	1,398.51	1/4	1,037.52	1/4	676.40	1/4	317.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,752.29	1/2	1,390.98	1/2	1,030.00	1/2	668.87	1/2	309.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,744.76	3/4	1,383.46	3/4	1,022.49	3/4	661.35	3/4	302.34	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,737.23	10	1,375.93	10	1,014.97	10	653.82	10	294.96	10		10	10	10	10	10	10	10	10
1/4	1,729.71	1/4	1,368.40	1/4	1,007.46	1/4	646.29	1/4	287.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,722.18	1/2	1,360.87	1/2	999.94	1/2	638.76	1/2	280.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,714.65	3/4	1,353.35	3/4	992.43	3/4	631.24	3/4	272.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,707.13	11	1,345.82	11	984.91	11	623.71	11	265.44	11		11	11	11	11	11	11	11	11
1/4	1,699.60	1/4	1,338.29	1/4	977.40	1/4	616.18	1/4	258.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,692.07	1/2	1,330.77	1/2	969.88	1/2	608.66	1/2	250.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,684.54	3/4	1,323.24	3/4	962.37	3/4	601.13	3/4	243.30	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: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

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	5,218.56	0	4,886.29	0	4,551.41	0	4,197.48	0	3,835.49	0	3,473.50	0	3,111.51	0	2,749.57	0	2,389.16	
1/4	1/4	5,213.45	1/4	4,879.50	1/4	4,544.21	1/4	4,189.94	1/4	3,827.95	1/4	3,465.96	1/4	3,103.96	1/4	2,742.13	1/4	2,381.62	
1/2	1/2	5,208.34	1/2	4,872.71	1/2	4,537.01	1/2	4,182.40	1/2	3,820.41	1/2	3,458.42	1/2	3,096.42	1/2	2,734.70	1/2	2,374.07	
3/4	3/4	5,203.23	3/4	4,865.92	3/4	4,529.81	3/4	4,174.86	3/4	3,812.87	3/4	3,450.87	3/4	3,088.88	3/4	2,727.26	3/4	2,366.53	
1	1	5,198.12	1	4,859.12	1	4,522.61	1	4,167.32	1	3,805.32	1	3,443.33	1	3,081.34	1	2,719.83	1	2,358.98	
1/4	1/4	5,191.80	1/4	4,852.30	1/4	4,515.37	1/4	4,159.77	1/4	3,797.78	1/4	3,435.79	1/4	3,073.80	1/4	2,712.39	1/4	2,351.44	
1/2	1/2	5,185.47	1/2	4,845.48	1/2	4,508.14	1/2	4,152.23	1/2	3,790.24	1/2	3,428.25	1/2	3,066.26	1/2	2,704.96	1/2	2,343.90	
3/4	3/4	5,179.15	3/4	4,838.66	3/4	4,500.91	3/4	4,144.69	3/4	3,782.70	3/4	3,420.71	3/4	3,058.72	3/4	2,697.52	3/4	2,336.35	
2	2	5,172.83	2	4,831.84	2	4,493.67	2	4,137.15	2	3,775.16	2	3,413.17	2	3,051.17	2	2,690.09	2	2,328.81	
1/4	1/4	5,165.52	1/4	4,824.99	1/4	4,486.41	1/4	4,129.61	1/4	3,767.62	1/4	3,405.62	1/4	3,043.63	1/4	2,682.65	1/4	2,321.26	
1/2	1/2	5,158.22	1/2	4,818.14	1/2	4,479.15	1/2	4,122.07	1/2	3,760.08	1/2	3,398.08	1/2	3,036.09	1/2	2,675.22	1/2	2,313.72	
3/4	3/4	5,150.91	3/4	4,811.29	3/4	4,471.89	3/4	4,114.53	3/4	3,752.53	3/4	3,390.54	3/4	3,028.55	3/4	2,667.78	3/4	2,306.17	
3	3	5,143.61	3	4,804.44	3	4,464.62	3	4,106.98	3	3,744.99	3	3,383.00	3	3,021.01	3	2,660.35	3	2,298.63	
1/4	1/4	5,136.16	1/4	4,797.55	1/4	4,457.33	1/4	4,099.44	1/4	3,737.45	1/4	3,375.46	1/4	3,013.47	1/4	2,652.90	1/4	2,291.09	
1/2	1/2	5,128.72	1/2	4,790.67	1/2	4,450.03	1/2	4,091.90	1/2	3,729.91	1/2	3,367.92	1/2	3,005.93	1/2	2,645.45	1/2	2,283.54	
3/4	3/4	5,121.28	3/4	4,783.78	3/4	4,442.74	3/4	4,084.36	3/4	3,722.37	3/4	3,360.38	3/4	2,998.38	3/4	2,638.00	3/4	2,276.00	
4	4	5,113.83	4	4,776.90	4	4,435.45	4	4,076.82	4	3,714.83	4	3,352.83	4	2,990.84	4	2,630.56	4	2,268.45	
1/4	1/4	5,106.39	1/4	4,769.98	1/4	4,428.12	1/4	4,069.28	1/4	3,707.28	1/4	3,345.29	1/4	2,983.30	1/4	2,623.02	1/4	2,260.91	
1/2	1/2	5,098.95	1/2	4,763.06	1/2	4,420.79	1/2	4,061.74	1/2	3,699.74	1/2	3,337.75	1/2	2,975.76	1/2	2,615.48	1/2	2,253.36	
3/4	3/4	5,091.50	3/4	4,756.14	3/4	4,413.46	3/4	4,054.19	3/4	3,692.20	3/4	3,330.21	3/4	2,968.22	3/4	2,607.94	3/4	2,245.82	
5	5	5,084.06	5	4,749.23	5	4,406.14	5	4,046.65	5	3,684.66	5	3,322.67	5	2,960.68	5	2,600.40	5	2,238.28	
1/4	1/4	5,076.62	1/4	4,742.28	1/4	4,398.77	1/4	4,039.11	1/4	3,677.12	1/4	3,315.13	1/4	2,953.13	1/4	2,592.86	1/4	2,230.73	
1/2	1/2	5,069.18	1/2	4,735.33	1/2	4,391.41	1/2	4,031.57	1/2	3,669.58	1/2	3,307.59	1/2	2,945.59	1/2	2,585.31	1/2	2,223.19	
3/4	3/4	5,061.73	3/4	4,728.38	3/4	4,384.05	3/4	4,024.03	3/4	3,662.04	3/4	3,300.04	3/4	2,938.05	3/4	2,577.77	3/4	2,215.64	
6	6	5,054.29	6	4,721.43	6	4,376.69	6	4,016.49	6	3,654.49	6	3,292.50	6	2,930.51	6	2,570.22	6	2,208.10	
1/4	1/4	5,046.85	1/4	4,714.45	1/4	4,369.30	1/4	4,008.94	1/4	3,646.95	1/4	3,284.96	1/4	2,922.97	1/4	2,562.68	1/4	2,200.55	
1/2	1/2	5,039.40	1/2	4,707.47	1/2	4,361.91	1/2	4,001.40	1/2	3,639.41	1/2	3,277.42	1/2	2,915.43	1/2	2,555.14	1/2	2,193.01	
3/4	3/4	5,031.96	3/4	4,700.49	3/4	4,354.52	3/4	3,993.86	3/4	3,631.87	3/4	3,269.88	3/4	2,907.89	3/4	2,547.59	3/4	2,185.47	
7	7	5,024.52	7	4,693.50	7	4,347.13	7	3,986.32	7	3,624.33	7	3,262.34	7	2,900.34	7	2,540.05	7	2,177.92	
1/4	1/4	5,017.13	1/4	4,686.46	1/4	4,339.71	1/4	3,978.78	1/4	3,616.79	1/4	3,254.79	1/4	2,892.80	1/4	2,532.50	1/4	2,170.38	
1/2	1/2	5,009.73	1/2	4,679.42	1/2	4,332.28	1/2	3,971.24	1/2	3,609.25	1/2	3,247.25	1/2	2,885.26	1/2	2,524.96	1/2	2,162.83	
3/4	3/4	5,002.34	3/4	4,672.38	3/4	4,324.86	3/4	3,963.70	3/4	3,601.70	3/4	3,239.71	3/4	2,877.72	3/4	2,517.41	3/4	2,155.29	
8	8	4,994.95	8	4,665.34	8	4,317.44	8	3,956.15	8	3,594.16	8	3,232.17	8	2,870.18	8	2,509.87	8	2,147.74	
1/4	1/4	4,987.97	1/4	4,658.26	1/4	4,309.99	1/4	3,948.61	1/4	3,586.62	1/4	3,224.63	1/4	2,862.64	1/4	2,502.33	1/4	2,140.20	
1/2	1/2	4,980.99	1/2	4,651.19	1/2	4,302.54	1/2	3,941.07	1/2	3,579.08	1/2	3,217.09	1/2	2,855.10	1/2	2,494.78	1/2	2,132.66	
3/4	3/4	4,974.01	3/4	4,644.11	3/4	4,295.09	3/4	3,933.53	3/4	3,571.54	3/4	3,209.55	3/4	2,847.55	3/4	2,487.24	3/4	2,125.11	
9	9	4,967.02	9	4,637.03	9	4,287.63	9	3,925.99	9	3,564.00	9	3,202.00	9	2,840.01	9	2,479.69	9	2,117.57	
1/4	1/4	4,960.33	1/4	4,629.93	1/4	4,280.15	1/4	3,918.45	1/4	3,556.45	1/4	3,194.46	1/4	2,832.47	1/4	2,472.15	1/4	2,110.02	
1/2	1/2	4,953.63	1/2	4,622.82	1/2	4,272.66	1/2	3,910.91	1/2	3,548.91	1/2	3,186.92	1/2	2,824.93	1/2	2,464.60	1/2	2,102.48	
3/4	3/4	4,946.94	3/4	4,615.72	3/4	4,265.18	3/4	3,903.36	3/4	3,541.37	3/4	3,179.38	3/4	2,817.39	3/4	2,457.06	3/4	2,094.93	
10	10	4,940.24	10	4,608.61	10	4,257.69	10	3,895.82	10	3,533.83	10	3,171.84	10	2,809.85	10	2,449.52	10	2,087.39	
1/4	1/4	4,933.51	1/4	4,601.48	1/4	4,250.17	1/4	3,888.28	1/4	3,526.29	1/4	3,164.30	1/4	2,802.30	1/4	2,441.97	1/4	2,079.85	
1/2	1/2	4,926.79	1/2	4,594.34	1/2	4,242.65	1/2	3,880.74	1/2	3,518.75	1/2	3,156.76	1/2	2,794.76	1/2	2,434.43	1/2	2,072.30	
3/4	3/4	4,920.06	3/4	4,587.21	3/4	4,235.14	3/4	3,873.20	3/4	3,511.21	3/4	3,149.21	3/4	2,787.22	3/4	2,426.88	3/4	2,064.76	
11	11	4,913.33	11	4,580.07	11	4,227.62	11	3,865.66	11	3,503.66	11	3,141.67	11	2,779.68	11	2,419.34	11	2,057.21	
1/4	1/4	4,906.57	1/4	4,572.91	1/4	4,220.08	1/4	3,858.11	1/4	3,496.12	1/4	3,134.13	1/4	2,772.15	1/4	2,411.79	1/4	2,049.67	
1/2	1/2	4,899.81	1/2	4,565.74	1/2	4,212.55	1/2	3,850.57	1/2	3,488.58	1/2	3,126.59	1/2	2,764.62	1/2	2,404.25	1/2	2,042.12	
3/4	3/4	4,893.05	3/4	4,558.57	3/4	4,205.02	3/4	3,843.03	3/4	3,481.04	3/4	3,119.05	3/4	2,757.10	3/4	2,396.71	3/4	2,034.58	

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 515B"

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,019.49	1/4	1,657.36	1/4	1,295.24	1/4	947.33	1/4	587.40	1/4	229.06	1/4		1/4		1/4		1/4	
1/2	2,011.95	1/2	1,649.82	1/2	1,287.69	1/2	940.12	1/2	579.86	1/2	221.67	1/2		1/2		1/2		1/2	
3/4	2,004.40	3/4	1,642.28	3/4	1,280.15	3/4	932.92	3/4	572.32	3/4	214.27	3/4		3/4		3/4		3/4	
1	1,996.86	1	1,634.73	1	1,272.61	1	925.72	1	564.77	1	206.87	1		1		1		1	
1/4	1,989.31	1/4	1,627.19	1/4	1,265.10	1/4	918.47	1/4	557.23	1/4	199.46	1/4		1/4		1/4		1/4	
1/2	1,981.77	1/2	1,619.64	1/2	1,257.60	1/2	911.21	1/2	549.68	1/2	192.05	1/2		1/2		1/2		1/2	
3/4	1,974.23	3/4	1,612.10	3/4	1,250.10	3/4	903.96	3/4	542.14	3/4	184.64	3/4		3/4		3/4		3/4	
2	1,966.68	2	1,604.55	2	1,242.59	2	896.71	2	534.60	2	177.22	2		2		2		2	
1/4	1,959.14	1/4	1,597.01	1/4	1,235.38	1/4	889.16	1/4	527.05	1/4	169.69	1/4		1/4		1/4		1/4	
1/2	1,951.59	1/2	1,589.47	1/2	1,228.17	1/2	881.62	1/2	519.51	1/2	162.17	1/2		1/2		1/2		1/2	
3/4	1,944.05	3/4	1,581.92	3/4	1,220.96	3/4	874.08	3/4	511.96	3/4	154.64	3/4		3/4		3/4		3/4	
3	1,936.50	3	1,574.38	3	1,213.75	3	866.53	3	504.42	3	147.11	3		3		3		3	
1/4	1,928.96	1/4	1,566.83	1/4	1,206.55	1/4	858.99	1/4	496.88	1/4	139.58	1/4		1/4		1/4		1/4	
1/2	1,921.42	1/2	1,559.29	1/2	1,199.35	1/2	851.44	1/2	489.33	1/2	132.05	1/2		1/2		1/2		1/2	
3/4	1,913.87	3/4	1,551.74	3/4	1,192.15	3/4	843.90	3/4	481.79	3/4	124.52	3/4		3/4		3/4		3/4	
4	1,906.33	4	1,544.20	4	1,184.95	4	836.36	4	474.24	4	116.99	4		4		4		4	
1/4	1,898.78	1/4	1,536.66	1/4	1,177.75	1/4	828.81	1/4	466.70	1/4	109.54	1/4		1/4		1/4		1/4	
1/2	1,891.24	1/2	1,529.11	1/2	1,170.55	1/2	821.27	1/2	459.16	1/2	102.09	1/2		1/2		1/2		1/2	
3/4	1,883.69	3/4	1,521.57	3/4	1,163.35	3/4	813.72	3/4	451.61	3/4	94.64	3/4		3/4		3/4		3/4	
5	1,876.15	5	1,514.02	5	1,156.15	5	806.18	5	444.07	5	87.19	5		5		5		5	
1/4	1,868.60	1/4	1,506.48	1/4	1,148.94	1/4	798.64	1/4	436.54	1/4	80.44	1/4		1/4		1/4		1/4	
1/2	1,861.06	1/2	1,498.93	1/2	1,141.74	1/2	791.09	1/2	429.02	1/2	73.70	1/2		1/2		1/2		1/2	
3/4	1,853.52	3/4	1,491.39	3/4	1,134.54	3/4	783.55	3/4	421.49	3/4	66.96	3/4		3/4		3/4		3/4	
6	1,845.97	6	1,483.85	6	1,127.34	6	776.00	6	413.97	6	60.22	6		6		6		6	
1/4	1,838.43	1/4	1,476.30	1/4	1,120.14	1/4	768.46	1/4	406.57	1/4	54.73	1/4		1/4		1/4		1/4	
1/2	1,830.88	1/2	1,468.76	1/2	1,112.94	1/2	760.92	1/2	399.18	1/2	49.25	1/2		1/2		1/2		1/2	
3/4	1,823.34	3/4	1,461.21	3/4	1,105.74	3/4	753.37	3/4	391.78	3/4	43.76	3/4		3/4		3/4		3/4	
7	1,815.79	7	1,453.67	7	1,098.54	7	745.83	7	384.38	7	38.27	7		7		7		7	
1/4	1,808.25	1/4	1,446.12	1/4	1,091.34	1/4	738.28	1/4	376.99	1/4	34.05	1/4		1/4		1/4		1/4	
1/2	1,800.71	1/2	1,438.58	1/2	1,084.14	1/2	730.74	1/2	369.59	1/2	29.82	1/2		1/2		1/2		1/2	
3/4	1,793.16	3/4	1,431.04	3/4	1,076.94	3/4	723.20	3/4	362.19	3/4	25.59	3/4		3/4		3/4		3/4	
8	1,785.62	8	1,423.49	8	1,069.74	8	715.65	8	354.80	8	21.36	8		8		8		8	
1/4	1,778.07	1/4	1,415.95	1/4	1,062.54	1/4	708.11	1/4	347.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,770.53	1/2	1,408.40	1/2	1,055.34	1/2	700.56	1/2	340.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,762.98	3/4	1,400.86	3/4	1,048.14	3/4	693.02	3/4	332.61	3/4		3/4		3/4		3/4		3/4	
9	1,755.44	9	1,393.31	9	1,040.94	9	685.48	9	325.21	9		9		9		9		9	
1/4	1,747.90	1/4	1,385.77	1/4	1,033.74	1/4	677.93	1/4	317.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.35	1/2	1,378.23	1/2	1,026.53	1/2	670.39	1/2	310.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,732.81	3/4	1,370.68	3/4	1,019.33	3/4	662.84	3/4	303.02	3/4		3/4		3/4		3/4		3/4	
10	1,725.26	10	1,363.14	10	1,012.13	10	655.30	10	295.63	10		10		10		10		10	
1/4	1,717.72	1/4	1,355.59	1/4	1,004.93	1/4	647.76	1/4	288.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.17	1/2	1,348.05	1/2	997.73	1/2	640.21	1/2	280.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,702.63	3/4	1,340.50	3/4	990.53	3/4	632.67	3/4	273.44	3/4		3/4		3/4		3/4		3/4	
11	1,695.09	11	1,332.96	11	983.33	11	625.12	11	266.04	11		11		11		11		11	
1/4	1,687.54	1/4	1,325.42	1/4	976.13	1/4	617.58	1/4	258.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.00	1/2	1,317.87	1/2	968.93	1/2	610.04	1/2	251.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,672.45	3/4	1,310.33	3/4	961.73	3/4	602.49	3/4	243.86	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

3 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	4,398.70	0	4,230.67	0	4,062.65	0	3,876.08	0	3,681.82	0	3,468.67	0	3,109.78	0	2,749.64	0	2,388.93		
1/4	1/4	4,397.04	1/4	4,227.36	1/4	4,058.94	1/4	3,872.03	1/4	3,677.77	1/4	3,461.19	1/4	3,102.28	1/4	2,742.13	1/4	2,381.41		
1/2	1/2	4,395.38	1/2	4,224.05	1/2	4,055.24	1/2	3,867.98	1/2	3,673.73	1/2	3,453.71	1/2	3,094.78	1/2	2,734.62	1/2	2,373.90		
3/4	3/4	4,393.73	3/4	4,220.74	3/4	4,051.53	3/4	3,863.94	3/4	3,669.68	3/4	3,446.22	3/4	3,087.27	3/4	2,727.10	3/4	2,366.38		
1	1	4,390.85	1	4,217.39	1	4,047.79	1	3,859.89	1	3,665.63	1	3,438.74	1	3,079.77	1	2,719.59	1	2,358.87		
1/4	1/4	4,387.97	1/4	4,214.05	1/4	4,044.05	1/4	3,855.84	1/4	3,661.59	1/4	3,431.26	1/4	3,072.27	1/4	2,712.07	1/4	2,351.35		
1/2	1/2	4,385.09	1/2	4,210.71	1/2	4,040.31	1/2	3,851.80	1/2	3,657.54	1/2	3,423.77	1/2	3,064.77	1/2	2,704.56	1/2	2,343.84		
3/4	3/4	4,382.21	3/4	4,207.36	3/4	4,036.57	3/4	3,847.75	3/4	3,653.49	3/4	3,416.29	3/4	3,057.27	3/4	2,697.05	3/4	2,336.32		
2	2	4,378.35	2	4,203.99	2	4,032.80	2	3,843.70	2	3,649.45	2	3,408.81	2	3,049.77	2	2,689.53	2	2,328.81		
1/4	1/4	4,374.49	1/4	4,200.62	1/4	4,029.03	1/4	3,839.65	1/4	3,645.40	1/4	3,401.33	1/4	3,042.27	1/4	2,682.02	1/4	2,321.29		
1/2	1/2	4,370.63	1/2	4,197.25	1/2	4,025.26	1/2	3,835.61	1/2	3,641.35	1/2	3,393.84	1/2	3,034.77	1/2	2,674.50	1/2	2,313.78		
3/4	3/4	4,366.77	3/4	4,193.87	3/4	4,021.49	3/4	3,831.56	3/4	3,637.30	3/4	3,386.36	3/4	3,027.27	3/4	2,666.99	3/4	2,306.26		
3	3	4,362.78	3	4,190.46	3	4,017.69	3	3,827.51	3	3,633.26	3	3,378.88	3	3,019.76	3	2,659.48	3	2,298.75		
1/4	1/4	4,358.78	1/4	4,187.06	1/4	4,013.89	1/4	3,823.47	1/4	3,629.21	1/4	3,371.40	1/4	3,012.26	1/4	2,651.96	1/4	2,291.23		
1/2	1/2	4,354.79	1/2	4,183.65	1/2	4,010.09	1/2	3,819.42	1/2	3,625.16	1/2	3,363.91	1/2	3,004.76	1/2	2,644.45	1/2	2,283.71		
3/4	3/4	4,350.79	3/4	4,180.24	3/4	4,006.29	3/4	3,815.37	3/4	3,621.12	3/4	3,356.43	3/4	2,997.26	3/4	2,636.93	3/4	2,276.20		
4	4	4,346.80	4	4,176.80	4	4,002.46	4	3,811.33	4	3,617.07	4	3,348.95	4	2,989.76	4	2,629.42	4	2,268.68		
1/4	1/4	4,342.81	1/4	4,173.36	1/4	3,998.62	1/4	3,807.28	1/4	3,613.02	1/4	3,341.47	1/4	2,982.26	1/4	2,621.90	1/4	2,261.17		
1/2	1/2	4,338.81	1/2	4,169.92	1/2	3,994.79	1/2	3,803.23	1/2	3,608.98	1/2	3,333.99	1/2	2,974.76	1/2	2,614.39	1/2	2,253.65		
3/4	3/4	4,334.82	3/4	4,166.48	3/4	3,990.95	3/4	3,799.18	3/4	3,604.93	3/4	3,326.51	3/4	2,967.26	3/4	2,606.88	3/4	2,246.14		
5	5	4,330.83	5	4,163.01	5	3,987.09	5	3,795.14	5	3,600.88	5	3,319.04	5	2,959.75	5	2,599.36	5	2,238.62		
1/4	1/4	4,326.83	1/4	4,159.54	1/4	3,983.22	1/4	3,791.09	1/4	3,596.83	1/4	3,311.57	1/4	2,952.25	1/4	2,591.85	1/4	2,231.11		
1/2	1/2	4,322.84	1/2	4,156.07	1/2	3,979.35	1/2	3,787.04	1/2	3,592.79	1/2	3,304.11	1/2	2,944.75	1/2	2,584.33	1/2	2,223.59		
3/4	3/4	4,318.84	3/4	4,152.60	3/4	3,975.49	3/4	3,783.00	3/4	3,588.74	3/4	3,296.64	3/4	2,937.25	3/4	2,576.82	3/4	2,216.08		
6	6	4,314.85	6	4,149.10	6	3,971.59	6	3,778.95	6	3,584.69	6	3,289.17	6	2,929.75	6	2,569.30	6	2,208.56		
1/4	1/4	4,310.86	1/4	4,145.60	1/4	3,967.69	1/4	3,774.90	1/4	3,580.65	1/4	3,281.71	1/4	2,922.25	1/4	2,561.78	1/4	2,201.05		
1/2	1/2	4,306.86	1/2	4,142.09	1/2	3,963.79	1/2	3,770.86	1/2	3,576.60	1/2	3,274.24	1/2	2,914.75	1/2	2,554.27	1/2	2,193.53		
3/4	3/4	4,302.87	3/4	4,138.59	3/4	3,959.90	3/4	3,766.81	3/4	3,572.55	3/4	3,266.77	3/4	2,907.25	3/4	2,546.75	3/4	2,186.01		
7	7	4,298.93	7	4,135.04	7	3,955.97	7	3,762.76	7	3,568.51	7	3,259.31	7	2,899.74	7	2,539.24	7	2,178.50		
1/4	1/4	4,294.98	1/4	4,131.49	1/4	3,952.04	1/4	3,758.71	1/4	3,564.46	1/4	3,251.84	1/4	2,892.24	1/4	2,531.72	1/4	2,170.98		
1/2	1/2	4,291.04	1/2	4,127.94	1/2	3,948.11	1/2	3,754.67	1/2	3,560.41	1/2	3,244.37	1/2	2,884.74	1/2	2,524.21	1/2	2,163.47		
3/4	3/4	4,287.10	3/4	4,124.40	3/4	3,944.19	3/4	3,750.62	3/4	3,556.36	3/4	3,236.91	3/4	2,877.24	3/4	2,516.69	3/4	2,155.95		
8	8	4,283.57	8	4,120.81	8	3,940.23	8	3,746.57	8	3,552.32	8	3,229.44	8	2,869.74	8	2,509.18	8	2,148.44		
1/4	1/4	4,280.04	1/4	4,117.23	1/4	3,936.27	1/4	3,742.53	1/4	3,548.27	1/4	3,221.97	1/4	2,862.24	1/4	2,501.66	1/4	2,140.92		
1/2	1/2	4,276.51	1/2	4,113.65	1/2	3,932.31	1/2	3,738.48	1/2	3,544.22	1/2	3,214.50	1/2	2,854.74	1/2	2,494.15	1/2	2,133.41		
3/4	3/4	4,272.98	3/4	4,110.07	3/4	3,928.36	3/4	3,734.43	3/4	3,540.18	3/4	3,207.04	3/4	2,847.24	3/4	2,486.63	3/4	2,125.89		
9	9	4,269.76	9	4,106.45	9	3,924.36	9	3,730.39	9	3,536.13	9	3,199.57	9	2,839.74	9	2,479.11	9	2,118.38		
1/4	1/4	4,266.55	1/4	4,102.84	1/4	3,920.37	1/4	3,726.34	1/4	3,532.08	1/4	3,192.10	1/4	2,832.23	1/4	2,471.60	1/4	2,110.86		
1/2	1/2	4,263.33	1/2	4,099.23	1/2	3,916.38	1/2	3,722.29	1/2	3,528.04	1/2	3,184.64	1/2	2,824.73	1/2	2,464.08	1/2	2,103.34		
3/4	3/4	4,260.12	3/4	4,095.62	3/4	3,912.39	3/4	3,718.24	3/4	3,523.99	3/4	3,177.17	3/4	2,817.23	3/4	2,456.57	3/4	2,095.83		
10	10	4,256.87	10	4,091.97	10	3,908.37	10	3,714.20	10	3,519.51	10	3,169.70	10	2,809.73	10	2,449.05	10	2,088.31		
1/4	1/4	4,253.62	1/4	4,088.33	1/4	3,904.34	1/4	3,710.15	1/4	3,515.04	1/4	3,162.23	1/4	2,802.23	1/4	2,441.54	1/4	2,080.80		
1/2	1/2	4,250.37	1/2	4,084.69	1/2	3,900.32	1/2	3,706.10	1/2	3,510.56	1/2	3,154.76	1/2	2,794.72	1/2	2,434.02	1/2	2,073.28		
3/4	3/4	4,247.12	3/4	4,081.05	3/4	3,896.30	3/4	3,702.06	3/4	3,506.08	3/4	3,147.28	3/4	2,787.22	3/4	2,426.51	3/4	2,065.77		
11	11	4,243.84	11	4,077.37	11	3,892.25	11	3,698.01	11	3,498.60	11	3,139.78	11	2,779.70	11	2,418.99	11	2,058.25		
1/4	1/4	4,240.55	1/4	4,073.70	1/4	3,888.21	1/4	3,693.96	1/4	3,491.12	1/4	3,132.28	1/4	2,772.19	1/4	2,411.48	1/4	2,050.74		
1/2	1/2	4,237.27	1/2	4,070.03	1/2	3,884.17	1/2	3,689.92	1/2	3,483.64	1/2	3,124.78	1/2	2,764.67	1/2	2,403.96	1/2	2,043.22		
3/4	3/4	4,400.36	3/4	4,233.99	3/4	4,066.36	3/4	3,880.12	3/4	3,685.87	3/4	3,476.15	3/4	3,117.28	3/4	2,757.16	3/4	2,396.45	3/4	2,035.71

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO 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 515B"

3 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.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,028.19	1/4	1,667.36	1/4	1,306.54	1/4	946.04	1/4	585.28	1/4	228.24			1/4		1/4		1/4	
1/2	2,013.15	1/2	1,652.33	1/2	1,291.50	1/2	931.02	1/2	570.25	1/2	213.50			1/2		1/2		1/2	
3/4	2,005.64	3/4	1,644.81	3/4	1,283.99	3/4	923.52	3/4	562.73	3/4	206.13			3/4		3/4		3/4	
1	1,998.12	1	1,637.29	1	1,276.47	1	916.01	1	555.21	1	198.75			1		1		1	
1/4	1,990.60	1/4	1,629.78	1/4	1,268.95	1/4	908.49	1/4	547.69	1/4	191.36			1/4		1/4		1/4	
1/2	1,983.09	1/2	1,622.26	1/2	1,261.43	1/2	900.98	1/2	540.18	1/2	183.98			1/2		1/2		1/2	
3/4	1,975.57	3/4	1,614.74	3/4	1,253.92	3/4	893.47	3/4	532.66	3/4	176.59			3/4		3/4		3/4	
2	1,968.05	2	1,607.23	2	1,246.40	2	885.95	2	525.14	2	169.09			2		2		2	
1/4	1,960.53	1/4	1,599.71	1/4	1,238.88	1/4	878.44	1/4	517.63	1/4	161.59			1/4		1/4		1/4	
1/2	1,953.02	1/2	1,592.19	1/2	1,231.37	1/2	870.92	1/2	510.11	1/2	154.08			1/2		1/2		1/2	
3/4	1,945.50	3/4	1,584.67	3/4	1,223.85	3/4	863.40	3/4	502.59	3/4	146.58			3/4		3/4		3/4	
3	1,937.98	3	1,577.16	3	1,216.34	3	855.89	3	495.08	3	139.08			3		3		3	
1/4	1,930.47	1/4	1,569.64	1/4	1,208.82	1/4	848.37	1/4	487.56	1/4	131.58			1/4		1/4		1/4	
1/2	1,922.95	1/2	1,562.12	1/2	1,201.31	1/2	840.85	1/2	480.04	1/2	124.08			1/2		1/2		1/2	
3/4	1,915.43	3/4	1,554.61	3/4	1,193.80	3/4	833.34	3/4	472.53	3/4	116.57			3/4		3/4		3/4	
4	1,907.91	4	1,547.09	4	1,186.29	4	825.82	4	465.01	4	109.15			4		4		4	
1/4	1,900.40	1/4	1,539.57	1/4	1,178.78	1/4	818.30	1/4	457.49	1/4	101.73			1/4		1/4		1/4	
1/2	1,892.88	1/2	1,532.05	1/2	1,171.27	1/2	810.79	1/2	449.97	1/2	94.30			1/2		1/2		1/2	
3/4	1,885.36	3/4	1,524.54	3/4	1,163.76	3/4	803.27	3/4	442.46	3/4	86.88			3/4		3/4		3/4	
5	1,877.85	5	1,517.02	5	1,156.26	5	795.75	5	434.96	5	80.16			5		5		5	
1/4	1,870.33	1/4	1,509.50	1/4	1,148.75	1/4	788.24	1/4	427.46	1/4	73.44			1/4		1/4		1/4	
1/2	1,862.81	1/2	1,501.99	1/2	1,141.24	1/2	780.72	1/2	419.96	1/2	66.72			1/2		1/2		1/2	
3/4	1,855.29	3/4	1,494.47	3/4	1,133.73	3/4	773.20	3/4	412.46	3/4	60.00			3/4		3/4		3/4	
6	1,847.78	6	1,486.95	6	1,126.23	6	765.68	6	405.10	6	54.54			6		6		6	
1/4	1,840.26	1/4	1,479.43	1/4	1,118.72	1/4	758.17	1/4	397.73	1/4	49.07			1/4		1/4		1/4	
1/2	1,832.74	1/2	1,471.92	1/2	1,111.21	1/2	750.65	1/2	390.36	1/2	43.61			1/2		1/2		1/2	
3/4	1,825.22	3/4	1,464.40	3/4	1,103.70	3/4	743.13	3/4	382.99	3/4	38.14			3/4		3/4		3/4	
7	1,817.71	7	1,456.88	7	1,096.20	7	735.62	7	375.62	7	33.93			7		7		7	
1/4	1,810.19	1/4	1,449.36	1/4	1,088.69	1/4	728.10	1/4	368.25	1/4	29.71			1/4		1/4		1/4	
1/2	1,802.67	1/2	1,441.85	1/2	1,081.18	1/2	720.58	1/2	360.88	1/2	25.50			1/2		1/2		1/2	
3/4	1,795.16	3/4	1,434.33	3/4	1,073.67	3/4	713.07	3/4	353.51	3/4	21.28			3/4		3/4		3/4	
8	1,787.64	8	1,426.81	8	1,066.16	8	705.55	8	346.14	8				8		8		8	
1/4	1,780.12	1/4	1,419.30	1/4	1,058.66	1/4	698.03	1/4	338.77	1/4				1/4		1/4		1/4	
1/2	1,772.60	1/2	1,411.78	1/2	1,051.15	1/2	690.52	1/2	331.41	1/2				1/2		1/2		1/2	
3/4	1,765.09	3/4	1,404.26	3/4	1,043.64	3/4	683.00	3/4	324.04	3/4				3/4		3/4		3/4	
9	1,757.57	9	1,396.74	9	1,036.13	9	675.48	9	316.67	9				9		9		9	
1/4	1,750.05	1/4	1,389.23	1/4	1,028.63	1/4	667.96	1/4	309.30	1/4				1/4		1/4		1/4	
1/2	1,742.54	1/2	1,381.71	1/2	1,021.12	1/2	660.45	1/2	301.93	1/2				1/2		1/2		1/2	
3/4	1,735.02	3/4	1,374.19	3/4	1,013.61	3/4	652.93	3/4	294.56	3/4				3/4		3/4		3/4	
10	1,727.50	10	1,366.68	10	1,006.10	10	645.41	10	287.19	10				10		10		10	
1/4	1,719.98	1/4	1,359.16	1/4	998.60	1/4	637.90	1/4	279.82	1/4				1/4		1/4		1/4	
1/2	1,712.47	1/2	1,351.64	1/2	991.09	1/2	630.38	1/2	272.45	1/2				1/2		1/2		1/2	
3/4	1,704.95	3/4	1,344.12	3/4	983.58	3/4	622.86	3/4	265.08	3/4				3/4		3/4		3/4	
11	1,697.43	11	1,336.61	11	976.07	11	615.35	11	257.72	11				11		11		11	
1/4	1,689.92	1/4	1,329.09	1/4	968.56	1/4	607.83	1/4	250.35	1/4				1/4		1/4		1/4	
1/2	1,682.40	1/2	1,321.57	1/2	961.06	1/2	600.31	1/2	242.98	1/2				1/2		1/2		1/2	
3/4	1,674.88	3/4	1,314.06	3/4	953.55	3/4	592.80	3/4	235.61	3/4				3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 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 515B"

3 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	0	0	4,202.01	0	4,036.23	0	3,851.85	0	3,658.73	0	3,457.03	0	3,099.68	0	2,741.28	0	2,383.73
1/4	1/4	1/4	1/4	1/4	4,198.74	1/4	4,032.58	1/4	3,847.83	1/4	3,654.71	1/4	3,449.58	1/4	3,092.21	1/4	2,733.80	1/4	2,376.24
1/2	1/2	1/2	1/2	1/2	4,360.78	1/2	4,195.48	1/2	4,028.93	1/2	3,843.81	1/2	3,650.68	1/2	3,442.13	1/2	3,084.74	1/2	2,726.33
3/4	3/4	3/4	3/4	3/4	4,359.14	3/4	4,192.19	3/4	4,025.24	3/4	3,839.79	3/4	3,646.66	3/4	3,434.68	3/4	3,077.27	3/4	2,718.96
1	1	1	1	1	4,357.50	1	4,188.90	1	4,021.56	1	3,835.76	1	3,642.64	1	3,427.23	1	3,069.80	1	2,711.58
1/4	1/4	1/4	1/4	1/4	4,355.86	1/4	4,185.61	1/4	4,017.87	1/4	3,831.74	1/4	3,638.61	1/4	3,419.77	1/4	3,062.33	1/4	2,704.20
1/2	1/2	1/2	1/2	1/2	4,354.22	1/2	4,182.32	1/2	4,014.19	1/2	3,827.72	1/2	3,634.59	1/2	3,412.32	1/2	3,054.86	1/2	2,696.83
3/4	3/4	3/4	3/4	3/4	4,351.36	3/4	4,179.00	3/4	4,010.47	3/4	3,823.69	3/4	3,630.57	3/4	3,404.87	3/4	3,047.40	3/4	2,689.45
2	2	2	2	2	4,348.51	2	4,175.68	2	4,006.76	2	3,819.67	2	3,626.54	2	3,397.42	2	3,039.94	2	2,682.07
1/4	1/4	1/4	1/4	1/4	4,345.65	1/4	4,172.36	1/4	4,003.04	1/4	3,815.65	1/4	3,622.52	1/4	3,389.97	1/4	3,032.47	1/4	2,674.70
1/2	1/2	1/2	1/2	1/2	4,342.79	1/2	4,169.04	1/2	3,999.32	1/2	3,811.62	1/2	3,618.50	1/2	3,382.52	1/2	3,025.01	1/2	2,667.32
3/4	3/4	3/4	3/4	3/4	4,338.95	3/4	4,165.69	3/4	3,995.58	3/4	3,807.60	3/4	3,614.47	3/4	3,375.06	3/4	3,017.55	3/4	2,659.94
3	3	3	3	3	4,335.12	3	4,162.34	3	3,991.83	3	3,803.58	3	3,610.45	3	3,367.61	3	3,010.08	3	2,652.57
1/4	1/4	1/4	1/4	1/4	4,331.28	1/4	4,158.98	1/4	3,988.08	1/4	3,799.55	1/4	3,606.42	1/4	3,360.16	1/4	3,002.62	1/4	2,645.19
1/2	1/2	1/2	1/2	1/2	4,327.45	1/2	4,155.63	1/2	3,984.34	1/2	3,795.53	1/2	3,602.40	1/2	3,352.71	1/2	2,995.16	1/2	2,637.81
3/4	3/4	3/4	3/4	3/4	4,323.48	3/4	4,152.25	3/4	3,980.56	3/4	3,791.51	3/4	3,598.38	3/4	3,345.26	3/4	2,987.70	3/4	2,630.42
4	4	4	4	4	4,319.51	4	4,148.86	4	3,976.78	4	3,787.48	4	3,594.35	4	3,337.81	4	2,980.23	4	2,623.03
1/4	1/4	1/4	1/4	1/4	4,315.54	1/4	4,145.48	1/4	3,973.00	1/4	3,783.46	1/4	3,590.33	1/4	3,330.35	1/4	2,972.77	1/4	2,615.64
1/2	1/2	1/2	1/2	1/2	4,311.57	1/2	4,142.09	1/2	3,969.23	1/2	3,779.44	1/2	3,586.31	1/2	3,322.90	1/2	2,965.31	1/2	2,608.25
3/4	3/4	3/4	3/4	3/4	4,307.60	3/4	4,138.67	3/4	3,965.42	3/4	3,775.41	3/4	3,582.28	3/4	3,315.45	3/4	2,957.85	3/4	2,600.77
5	5	5	5	5	4,303.62	5	4,135.26	5	3,961.60	5	3,771.39	5	3,578.26	5	3,308.00	5	2,950.38	5	2,593.29
1/4	1/4	1/4	1/4	1/4	4,299.65	1/4	4,131.84	1/4	3,957.79	1/4	3,767.36	1/4	3,574.24	1/4	3,300.55	1/4	2,942.92	1/4	2,585.81
1/2	1/2	1/2	1/2	1/2	4,295.68	1/2	4,128.42	1/2	3,953.98	1/2	3,763.34	1/2	3,570.21	1/2	3,293.10	1/2	2,935.46	1/2	2,578.33
3/4	3/4	3/4	3/4	3/4	4,291.71	3/4	4,124.97	3/4	3,950.14	3/4	3,759.32	3/4	3,566.19	3/4	3,285.67	3/4	2,927.99	3/4	2,570.84
6	6	6	6	6	4,287.74	6	4,121.52	6	3,946.29	6	3,755.29	6	3,562.17	6	3,278.23	6	2,920.53	6	2,563.36
1/4	1/4	1/4	1/4	1/4	4,283.77	1/4	4,118.08	1/4	3,942.45	1/4	3,751.27	1/4	3,558.14	1/4	3,270.79	1/4	2,913.07	1/4	2,555.87
1/2	1/2	1/2	1/2	1/2	4,279.80	1/2	4,114.63	1/2	3,938.61	1/2	3,747.25	1/2	3,554.12	1/2	3,263.36	1/2	2,905.61	1/2	2,548.39
3/4	3/4	3/4	3/4	3/4	4,275.83	3/4	4,111.15	3/4	3,934.73	3/4	3,743.22	3/4	3,550.10	3/4	3,255.92	3/4	2,898.14	3/4	2,540.90
7	7	7	7	7	4,271.86	7	4,107.67	7	3,930.86	7	3,739.20	7	3,546.07	7	3,248.49	7	2,890.68	7	2,533.42
1/4	1/4	1/4	1/4	1/4	4,267.89	1/4	4,104.19	1/4	3,926.98	1/4	3,735.18	1/4	3,542.05	1/4	3,241.05	1/4	2,883.21	1/4	2,525.93
1/2	1/2	1/2	1/2	1/2	4,263.92	1/2	4,100.71	1/2	3,923.11	1/2	3,731.15	1/2	3,538.03	1/2	3,233.61	1/2	2,875.75	1/2	2,518.45
3/4	3/4	3/4	3/4	3/4	4,260.00	3/4	4,097.18	3/4	3,919.21	3/4	3,727.13	3/4	3,534.00	3/4	3,226.18	3/4	2,868.28	3/4	2,510.97
8	8	8	8	8	4,256.08	8	4,093.66	8	3,915.30	8	3,723.11	8	3,529.98	8	3,218.74	8	2,860.81	8	2,503.48
1/4	1/4	1/4	1/4	1/4	4,252.16	1/4	4,090.13	1/4	3,911.40	1/4	3,719.08	1/4	3,525.95	1/4	3,211.31	1/4	2,853.34	1/4	2,496.00
1/2	1/2	1/2	1/2	1/2	4,248.25	1/2	4,086.60	1/2	3,907.49	1/2	3,715.06	1/2	3,521.93	1/2	3,203.87	1/2	2,845.87	1/2	2,488.51
3/4	3/4	3/4	3/4	3/4	4,244.74	3/4	4,083.04	3/4	3,903.56	3/4	3,711.04	3/4	3,517.91	3/4	3,196.43	3/4	2,838.40	3/4	2,481.03
9	9	9	9	9	4,241.23	9	4,079.48	9	3,899.63	9	3,707.01	9	3,513.88	9	3,189.00	9	2,830.93	9	2,473.54
1/4	1/4	1/4	1/4	1/4	4,237.72	1/4	4,075.92	1/4	3,895.69	1/4	3,702.99	1/4	3,509.86	1/4	3,181.56	1/4	2,823.46	1/4	2,466.06
1/2	1/2	1/2	1/2	1/2	4,234.21	1/2	4,072.36	1/2	3,891.76	1/2	3,698.97	1/2	3,505.84	1/2	3,174.13	1/2	2,815.99	1/2	2,458.57
3/4	3/4	3/4	3/4	3/4	4,231.02	3/4	4,068.77	3/4	3,887.79	3/4	3,694.94	3/4	3,501.81	3/4	3,166.69	3/4	2,808.52	3/4	2,451.09
10	10	10	10	10	4,227.83	10	4,065.18	10	3,883.82	10	3,690.92	10	3,497.79	10	3,159.25	10	2,801.05	10	2,443.60
1/4	1/4	1/4	1/4	1/4	4,224.63	1/4	4,061.59	1/4	3,879.85	1/4	3,686.89	1/4	3,493.77	1/4	3,151.82	1/4	2,793.58	1/4	2,436.12
1/2	1/2	1/2	1/2	1/2	4,221.44	1/2	4,058.00	1/2	3,875.88	1/2	3,682.87	1/2	3,489.74	1/2	3,144.38	1/2	2,786.11	1/2	2,428.64
3/4	3/4	3/4	3/4	3/4	4,218.21	3/4	4,054.38	3/4	3,871.88	3/4	3,678.85	3/4	3,485.29	3/4	3,136.94	3/4	2,778.63	3/4	2,421.15
11	11	11	11	11	4,214.98	11	4,050.77	11	3,867.88	11	3,674.82	11	3,480.84	11	3,129.50	11	2,771.16	11	2,413.67
1/4	1/4	1/4	1/4	1/4	4,211.76	1/4	4,047.15	1/4	3,863.88	1/4	3,670.80	1/4	3,476.39	1/4	3,122.06	1/4	2,763.69	1/4	2,406.18
1/2	1/2	1/2	1/2	1/2	4,208.53	1/2	4,043.53	1/2	3,859.88	1/2	3,666.78	1/2	3,471.94	1/2	3,114.62	1/2	2,756.22	1/2	2,398.70
3/4	3/4	3/4	3/4	3/4	4,205.27	3/4	4,039.88	3/4	3,855.87	3/4	3,662.75	3/4	3,464.48	3/4	3,107.15	3/4	2,748.75	3/4	2,391.21

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 515B"

3 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	2,024.47	0	1,665.14	0	1,307.19	0	958.16	0	605.54	0	249.43	0		0		0		0	
1/4	2,016.99	1/4	1,657.65	1/4	1,299.76	1/4	951.01	1/4	598.05	1/4	242.09	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,009.51	1/2	1,650.17	1/2	1,292.34	1/2	943.86	1/2	590.57	1/2	234.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,002.02	3/4	1,642.68	3/4	1,284.91	3/4	936.71	3/4	583.08	3/4	227.40	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,994.53	1	1,635.19	1	1,277.49	1	929.55	1	575.59	1	220.06	1	1	1	1	1	1	1	1
1/4	1,987.05	1/4	1,627.71	1/4	1,270.06	1/4	922.40	1/4	568.10	1/4	212.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,979.56	1/2	1,620.22	1/2	1,262.64	1/2	915.25	1/2	560.61	1/2	205.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,972.08	3/4	1,612.73	3/4	1,255.22	3/4	908.09	3/4	553.12	3/4	198.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,964.59	2	1,605.25	2	1,247.79	2	900.94	2	545.64	2	190.67	2	2	2	2	2	2	2	2
1/4	1,957.10	1/4	1,597.76	1/4	1,240.37	1/4	893.78	1/4	538.15	1/4	183.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,949.62	1/2	1,590.27	1/2	1,232.95	1/2	886.63	1/2	530.66	1/2	175.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,942.13	3/4	1,582.79	3/4	1,225.54	3/4	879.45	3/4	523.17	3/4	168.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,934.64	3	1,575.30	3	1,218.13	3	872.27	3	515.68	3	161.00	3	3	3	3	3	3	3	3
1/4	1,927.16	1/4	1,567.82	1/4	1,210.73	1/4	865.10	1/4	508.19	1/4	153.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,919.67	1/2	1,560.33	1/2	1,203.32	1/2	857.92	1/2	500.71	1/2	146.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,912.19	3/4	1,552.84	3/4	1,195.91	3/4	850.74	3/4	493.22	3/4	138.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,904.70	4	1,545.36	4	1,188.50	4	843.56	4	485.73	4	131.10	4	4	4	4	4	4	4	4
1/4	1,897.21	1/4	1,537.87	1/4	1,181.09	1/4	836.38	1/4	478.24	1/4	123.62	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.73	1/2	1,530.38	1/2	1,173.68	1/2	829.20	1/2	470.75	1/2	116.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.24	3/4	1,522.90	3/4	1,166.28	3/4	821.96	3/4	463.26	3/4	108.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,874.75	5	1,515.41	5	1,158.88	5	814.72	5	455.78	5	101.35	5	5	5	5	5	5	5	5
1/4	1,867.27	1/4	1,507.93	1/4	1,151.48	1/4	807.48	1/4	448.29	1/4	93.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.78	1/2	1,500.44	1/2	1,144.09	1/2	800.24	1/2	440.80	1/2	86.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.30	3/4	1,492.96	3/4	1,136.93	3/4	792.75	3/4	433.33	3/4	79.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,844.81	6	1,485.48	6	1,129.78	6	785.26	6	425.86	6	73.20	6	6	6	6	6	6	6	6
1/4	1,837.32	1/4	1,478.00	1/4	1,122.63	1/4	777.77	1/4	418.39	1/4	66.51	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,829.84	1/2	1,470.52	1/2	1,115.48	1/2	770.29	1/2	410.92	1/2	59.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,822.35	3/4	1,463.10	3/4	1,108.33	3/4	762.80	3/4	403.58	3/4	54.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,814.86	7	1,455.68	7	1,101.18	7	755.31	7	396.24	7	48.94	7	7	7	7	7	7	7	7
1/4	1,807.38	1/4	1,448.25	1/4	1,094.03	1/4	747.82	1/4	388.90	1/4	43.50	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,799.89	1/2	1,440.83	1/2	1,086.88	1/2	740.33	1/2	381.56	1/2	38.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,792.40	3/4	1,433.40	3/4	1,079.73	3/4	732.84	3/4	374.22	3/4	33.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,784.92	8	1,425.98	8	1,072.58	8	725.36	8	366.88	8	29.65	8	8	8	8	8	8	8	8
1/4	1,777.43	1/4	1,418.55	1/4	1,065.42	1/4	717.87	1/4	359.54	1/4	25.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,769.95	1/2	1,411.13	1/2	1,058.27	1/2	710.38	1/2	352.20	1/2	21.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,762.46	3/4	1,403.70	3/4	1,051.12	3/4	702.89	3/4	344.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,754.97	9	1,396.28	9	1,043.97	9	695.40	9	337.51	9		9	9	9	9	9	9	9	9
1/4	1,747.49	1/4	1,388.86	1/4	1,036.82	1/4	687.91	1/4	330.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,740.00	1/2	1,381.43	1/2	1,029.67	1/2	680.43	1/2	322.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,732.51	3/4	1,374.01	3/4	1,022.52	3/4	672.94	3/4	315.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,725.03	10	1,366.58	10	1,015.37	10	665.45	10	308.15	10		10	10	10	10	10	10	10	10
1/4	1,717.54	1/4	1,359.16	1/4	1,008.22	1/4	657.96	1/4	300.81	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,710.06	1/2	1,351.73	1/2	1,001.07	1/2	650.47	1/2	293.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,702.57	3/4	1,344.31	3/4	993.91	3/4	642.98	3/4	286.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,695.08	11	1,336.88	11	986.76	11	635.50	11	278.79	11		11	11	11	11	11	11	11	11
1/4	1,687.60	1/4	1,329.46	1/4	979.61	1/4	628.01	1/4	271.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,680.11	1/2	1,322.03	1/2	972.46	1/2	620.52	1/2	264.11	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,672.62	3/4	1,314.61	3/4	965.31	3/4	613.03	3/4	256.77	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: 03/31/2020 JS
CALCULATED: 03/31/2020 CL
PRINTED: 03/31/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2020

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