



BARGE "EMS 521"

INNAGE TRIM TABLE

HULL # 1248

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

$$\begin{array}{rcl} \text{FWD. DRAFT} & = & 2'-00'' \\ \text{AFT DRAFT} & = & 4'-00'' \\ \text{DIFF.} & = & 2'-00'' \quad (\text{DOWN BY STERN}) \end{array}$$

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: 253'-00"

February 10, 2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 521"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	21.41	0	359.44	0	722.37	0	1,085.06	0	1,447.75	0	1,810.70	0	2,173.64	0	2,536.58	0	2,899.43	0	3,262.24
1/4	25.66	1/4	367.00	1/4	729.93	1/4	1,092.61	1/4	1,455.32	1/4	1,818.26	1/4	2,181.20	1/4	2,544.14	1/4	2,906.99	1/4	3,269.80
1/2	29.91	1/2	374.56	1/2	737.49	1/2	1,100.16	1/2	1,462.88	1/2	1,825.82	1/2	2,188.76	1/2	2,551.70	1/2	2,914.55	1/2	3,277.35
3/4	34.16	3/4	382.12	3/4	745.05	3/4	1,107.71	3/4	1,470.44	3/4	1,833.38	3/4	2,196.32	3/4	2,559.27	3/4	2,924.91	3/4	3,287.76
1	38.42	1	389.68	1	752.61	1	1,115.26	1	1,478.00	1	1,840.94	1	2,203.88	1	2,566.83	1	2,929.66	1	3,292.47
1/4	43.93	1/4	397.24	1/4	760.17	1/4	1,122.81	1/4	1,485.56	1/4	1,848.50	1/4	2,211.45	1/4	2,574.39	1/4	2,937.22	1/4	3,300.03
1/2	48.44	1/2	404.81	1/2	767.73	1/2	1,130.36	1/2	1,493.12	1/2	1,856.06	1/2	2,219.01	1/2	2,581.95	1/2	2,944.78	1/2	3,307.59
3/4	54.95	3/4	412.37	3/4	775.29	3/4	1,137.91	3/4	1,500.68	3/4	1,863.63	3/4	2,226.57	3/4	2,589.51	3/4	2,952.34	3/4	3,315.15
2	60.47	2	419.93	2	782.86	2	1,145.46	2	1,508.24	2	1,871.19	2	2,234.13	2	2,597.07	2	2,959.90	2	3,322.70
1/4	67.24	1/4	427.49	1/4	790.42	1/4	1,153.00	1/4	1,515.81	1/4	1,878.75	1/4	2,241.69	1/4	2,604.63	1/4	2,967.46	1/4	3,330.26
1/2	74.01	1/2	435.05	1/2	797.98	1/2	1,160.55	1/2	1,523.37	1/2	1,886.31	1/2	2,249.25	1/2	2,612.19	1/2	2,975.01	1/2	3,337.82
3/4	80.79	3/4	442.61	3/4	805.54	3/4	1,168.10	3/4	1,530.93	3/4	1,893.87	3/4	2,256.81	3/4	2,619.76	3/4	2,982.57	3/4	3,345.38
3	87.56	3	450.17	3	813.10	3	1,175.65	3	1,538.49	3	1,901.43	3	2,264.37	3	2,627.32	3	2,990.13	3	3,352.94
1/4	95.04	1/4	457.73	1/4	820.66	1/4	1,183.20	1/4	1,546.05	1/4	1,908.99	1/4	2,271.94	1/4	2,634.88	1/4	2,997.69	1/4	3,360.50
1/2	102.52	1/2	465.29	1/2	828.22	1/2	1,190.75	1/2	1,553.61	1/2	1,916.56	1/2	2,279.50	1/2	2,642.44	1/2	3,005.25	1/2	3,368.06
3/4	110.01	3/4	472.85	3/4	835.76	3/4	1,198.30	3/4	1,561.17	3/4	1,924.12	3/4	2,287.06	3/4	2,650.00	3/4	3,012.81	3/4	3,375.61
4	117.49	4	480.42	4	843.34	4	1,205.85	4	1,568.74	4	1,939.24	4	2,294.62	4	2,657.56	4	3,020.36	4	3,383.17
1/4	125.05	1/4	487.98	1/4	850.90	1/4	1,213.40	1/4	1,576.30	1/4	1,946.80	1/4	2,302.18	1/4	2,665.12	1/4	3,027.92	1/4	3,390.73
1/2	132.61	1/2	495.54	1/2	858.47	1/2	1,220.95	1/2	1,583.86	1/2	1,954.36	1/2	2,309.74	1/2	2,672.67	1/2	3,035.48	1/2	3,398.29
3/4	140.17	3/4	503.10	3/4	866.03	3/4	1,228.49	3/4	1,591.41	3/4	1,961.92	3/4	2,317.30	3/4	2,680.23	3/4	3,043.04	3/4	3,405.85
5	147.73	5	510.66	5	873.59	5	1,236.04	5	1,598.98	5	1,969.48	5	2,324.87	5	2,687.79	5	3,050.60	5	3,413.41
1/4	155.29	1/4	518.22	1/4	881.15	1/4	1,243.60	1/4	1,606.54	1/4	1,969.48	1/4	2,332.43	1/4	2,695.35	1/4	3,058.16	1/4	3,420.97
1/2	162.85	1/2	525.78	1/2	888.71	1/2	1,251.16	1/2	1,614.10	1/2	1,977.05	1/2	2,339.99	1/2	2,702.91	1/2	3,065.72	1/2	3,428.52
3/4	170.41	3/4	533.34	3/4	896.27	3/4	1,258.72	3/4	1,621.66	3/4	1,984.61	3/4	2,347.55	3/4	2,710.47	3/4	3,073.27	3/4	3,436.08
6	177.98	6	540.90	6	903.83	6	1,266.28	6	1,629.23	6	1,992.17	6	2,355.11	6	2,718.02	6	3,080.83	6	3,443.64
1/4	185.54	1/4	548.46	1/4	911.39	1/4	1,273.84	1/4	1,636.79	1/4	1,999.73	1/4	2,362.67	1/4	2,725.58	1/4	3,088.38	1/4	3,451.20
1/2	193.10	1/2	556.03	1/2	918.95	1/2	1,281.41	1/2	1,644.35	1/2	2,007.29	1/2	2,370.23	1/2	2,733.14	1/2	3,095.95	1/2	3,458.76
3/4	200.66	3/4	563.59	3/4	926.51	3/4	1,288.97	3/4	1,651.91	3/4	2,014.85	3/4	2,377.79	3/4	2,740.70	3/4	3,103.51	3/4	3,466.32
7	208.22	7	571.15	7	934.08	7	1,296.53	7	1,659.47	7	2,022.41	7	2,385.36	7	2,748.26	7	3,111.07	7	3,473.87
1/4	215.78	1/4	578.71	1/4	941.63	1/4	1,304.09	1/4	1,667.03	1/4	2,029.97	1/4	2,392.92	1/4	2,755.82	1/4	3,118.63	1/4	3,481.43
1/2	223.34	1/2	586.27	1/2	949.18	1/2	1,311.65	1/2	1,674.59	1/2	2,037.54	1/2	2,400.48	1/2	2,763.38	1/2	3,126.18	1/2	3,488.99
3/4	230.90	3/4	593.83	3/4	956.73	3/4	1,319.21	3/4	1,682.15	3/4	2,045.10	3/4	2,408.04	3/4	2,770.93	3/4	3,133.74	3/4	3,496.55
8	238.46	8	601.39	8	964.28	8	1,326.77	8	1,689.72	8	2,052.66	8	2,415.60	8	2,778.49	8	3,141.30	8	3,504.11
1/4	246.02	1/4	608.95	1/4	971.83	1/4	1,334.34	1/4	1,697.28	1/4	2,060.22	1/4	2,423.16	1/4	2,786.05	1/4	3,148.86	1/4	3,511.67
1/2	253.59	1/2	616.51	1/2	979.38	1/2	1,341.90	1/2	1,704.84	1/2	2,067.78	1/2	2,430.72	1/2	2,793.61	1/2	3,156.42	1/2	3,519.23
3/4	261.15	3/4	624.07	3/4	986.93	3/4	1,349.46	3/4	1,712.40	3/4	2,075.34	3/4	2,438.28	3/4	2,801.17	3/4	3,163.98	3/4	3,526.78
9	268.71	9	631.64	9	994.48	9	1,357.02	9	1,719.96	9	2,082.90	9	2,445.85	9	2,808.73	9	3,171.53	9	3,534.34
1/4	276.27	1/4	639.20	1/4	1,002.02	1/4	1,364.58	1/4	1,727.52	1/4	2,090.47	1/4	2,453.41	1/4	2,816.29	1/4	3,179.09	1/4	3,541.90
1/2	283.83	1/2	646.76	1/2	1,009.57	1/2	1,372.14	1/2	1,735.08	1/2	2,098.03	1/2	2,460.97	1/2	2,823.84	1/2	3,186.65	1/2	3,549.46
3/4	291.39	3/4	654.32	3/4	1,017.12	3/4	1,379.70	3/4	1,742.65	3/4	2,105.59	3/4	2,468.53	3/4	2,831.40	3/4	3,194.21	3/4	3,557.02
10	298.95	10	661.88	10	1,024.67	10	1,387.26	10	1,750.21	10	2,113.15	10	2,476.09	10	2,838.96	10	3,201.77	10	3,564.58
1/4	306.51	1/4	669.44	1/4	1,032.22	1/4	1,394.83	1/4	1,757.77	1/4	2,120.71	1/4	2,483.65	1/4	2,846.52	1/4	3,209.33	1/4	3,572.14
1/2	314.07	1/2	677.00	1/2	1,039.77	1/2	1,402.39	1/2	1,765.33	1/2	2,128.27	1/2	2,491.21	1/2	2,854.08	1/2	3,216.89	1/2	3,579.69
3/4	321.63	3/4	684.56	3/4	1,047.32	3/4	1,409.95	3/4	1,772.89	3/4	2,135.83	3/4	2,498.78	3/4	2,861.64	3/4	3,224.44	3/4	3,587.25
11	329.20	11	692.12	11	1,054.87	11	1,417.51	11	1,780.45	11	2,143.39	11	2,506.34	11	2,869.19	11	3,232.00	11	3,594.81
1/4	336.76	1/4	699.68	1/4	1,062.42	1/4	1,425.07	1/4	1,788.01	1/4	2,150.96	1/4	2,513.90	1/4	2,876.75	1/4	3,239.56	1/4	3,602.37
1/2	344.32	1/2	707.25	1/2	1,069.97	1/2	1,432.63	1/2	1,795.57	1/2	2,158.52	1/2	2,521.46	1/2	2,884.31	1/2	3,247.12	1/2	3,609.93
3/4	351.88	3/4	714.81	3/4	1,077.51	3/4	1,440.19	3/4	1,803.14	3/4	2,166.08	3/4	2,529.02	3/4	2,891.87	3/4	3,254.68	3/4	3,617.49

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 521"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	3,625.04	0	3,987.82	0	4,343.04	0	4,685.00	0	5,012.22	0	5,329.44	0	5,646.66	0	5,963.88	0	6,281.10	0	6,598.32
1/4	3,632.60	1/4	3,995.35	1/4	4,350.29	1/4	4,691.98	1/4	5,018.83	1/4	5,336.05	1/4	5,653.27	1/4	5,970.49	1/4	6,287.71	1/4	6,604.93
1/2	3,640.16	1/2	4,002.87	1/2	4,357.54	1/2	4,698.95	1/2	5,025.43	1/2	5,343.65	1/2	5,660.87	1/2	5,978.09	1/2	6,295.31	1/2	6,612.55
3/4	3,647.72	3/4	4,010.40	3/4	4,364.79	3/4	4,705.93	3/4	5,032.03	3/4	5,349.25	3/4	5,666.47	3/4	5,983.69	3/4	6,302.93	3/4	6,619.77
1	3,655.28	1	4,017.93	1	4,372.04	1	4,712.90	1	5,038.63	1	5,356.81	1	5,674.03	1	5,991.25	1	6,310.49	1	6,627.31
1/4	3,662.84	1/4	4,025.43	1/4	4,379.27	1/4	4,719.83	1/4	5,045.20	1/4	5,361.42	1/4	5,678.64	1/4	5,995.86	1/4	6,317.05	1/4	6,634.27
1/2	3,670.40	1/2	4,032.94	1/2	4,386.50	1/2	4,726.75	1/2	5,051.78	1/2	5,368.00	1/2	5,685.22	1/2	5,998.44	1/2	6,323.61	1/2	6,641.83
3/4	3,677.95	3/4	4,040.44	3/4	4,393.72	3/4	4,733.68	3/4	5,058.36	3/4	5,375.24	3/4	5,692.46	3/4	6,001.06	3/4	6,330.17	3/4	6,649.39
2	3,685.51	2	4,047.94	2	4,400.95	2	4,740.61	2	5,064.93	2	5,382.81	2	5,700.03	2	6,007.25	2	6,337.73	2	6,656.95
1/4	3,693.07	1/4	4,055.42	1/4	4,408.16	1/4	4,747.51	1/4	5,071.49	1/4	5,389.71	1/4	5,706.93	1/4	6,014.15	1/4	6,344.29	1/4	6,664.51
1/2	3,700.63	1/2	4,062.90	1/2	4,415.36	1/2	4,754.41	1/2	5,078.04	1/2	5,396.85	1/2	5,714.07	1/2	6,020.29	1/2	6,350.81	1/2	6,672.07
3/4	3,708.19	3/4	4,070.39	3/4	4,422.57	3/4	4,761.31	3/4	5,084.60	3/4	5,402.09	3/4	5,719.31	3/4	6,027.53	3/4	6,357.35	3/4	6,679.63
3	3,715.75	3	4,077.87	3	4,429.77	3	4,768.20	3	5,091.15	3	5,409.25	3	5,726.47	3	6,034.69	3	6,364.87	3	6,687.19
1/4	3,723.31	1/4	4,085.32	1/4	4,436.95	1/4	4,775.08	1/4	5,097.68	1/4	5,416.49	1/4	5,733.71	1/4	6,041.93	1/4	6,372.01	1/4	6,694.75
1/2	3,730.86	1/2	4,092.78	1/2	4,444.13	1/2	4,781.96	1/2	5,104.21	1/2	5,423.97	1/2	5,740.19	1/2	6,049.41	1/2	6,379.55	1/2	6,702.31
3/4	3,738.42	3/4	4,100.24	3/4	4,451.32	3/4	4,788.83	3/4	5,110.74	3/4	5,431.41	3/4	5,747.63	3/4	6,056.85	3/4	6,386.99	3/4	6,709.87
4	3,745.98	4	4,107.70	4	4,458.50	4	4,795.71	4	5,117.28	4	5,438.89	4	5,754.11	4	6,064.33	4	6,394.53	4	6,717.39
1/4	3,753.54	1/4	4,115.13	1/4	4,465.66	1/4	4,802.56	1/4	5,123.78	1/4	5,446.37	1/4	5,761.59	1/4	6,071.81	1/4	6,402.07	1/4	6,724.95
1/2	3,761.10	1/2	4,122.57	1/2	4,472.82	1/2	4,809.42	1/2	5,130.29	1/2	5,453.89	1/2	5,768.11	1/2	6,079.33	1/2	6,409.61	1/2	6,732.51
3/4	3,768.66	3/4	4,130.00	3/4	4,479.97	3/4	4,816.27	3/4	5,136.80	3/4	5,461.37	3/4	5,775.63	3/4	6,086.77	3/4	6,417.17	3/4	6,740.07
5	3,776.21	5	4,137.44	5	4,487.13	5	4,823.13	5	5,143.31	5	5,468.81	5	5,782.13	5	6,094.31	5	6,424.71	5	6,747.63
1/4	3,783.77	1/4	4,144.85	1/4	4,494.27	1/4	4,829.96	1/4	5,150.51	1/4	5,476.33	1/4	5,789.55	1/4	6,101.85	1/4	6,432.25	1/4	6,755.17
1/2	3,791.33	1/2	4,152.26	1/2	4,501.41	1/2	4,836.79	1/2	5,157.71	1/2	5,483.85	1/2	5,796.07	1/2	6,109.39	1/2	6,439.79	1/2	6,762.73
3/4	3,798.89	3/4	4,159.67	3/4	4,508.54	3/4	4,843.62	3/4	5,164.92	3/4	5,491.31	3/4	5,803.53	3/4	6,116.93	3/4	6,447.33	3/4	6,770.27
6	3,806.45	6	4,167.08	6	4,515.68	6	4,850.45	6	5,172.12	6	5,500.05	6	5,808.67	6	6,124.47	6	6,454.87	6	6,777.81
1/4	3,814.01	1/4	4,174.47	1/4	4,522.79	1/4	4,857.26	1/4	5,178.46	1/4	5,507.59	1/4	5,815.21	1/4	6,132.01	1/4	6,462.41	1/4	6,785.35
1/2	3,821.57	1/2	4,181.86	1/2	4,529.90	1/2	4,864.06	1/2	5,184.79	1/2	5,515.13	1/2	5,822.85	1/2	6,139.55	1/2	6,469.95	1/2	6,792.89
3/4	3,829.12	3/4	4,189.25	3/4	4,537.02	3/4	4,870.87	3/4	5,191.13	3/4	5,522.67	3/4	5,830.17	3/4	6,147.09	3/4	6,477.49	3/4	6,800.43
7	3,836.68	7	4,196.64	7	4,544.13	7	4,877.68	7	5,197.47	7	5,530.11	7	5,837.61	7	6,154.63	7	6,485.03	7	6,807.97
1/4	3,844.24	1/4	4,204.01	1/4	4,551.22	1/4	4,884.46	1/4	5,202.59	1/4	5,537.65	1/4	5,845.19	1/4	6,162.17	1/4	6,492.57	1/4	6,815.51
1/2	3,851.80	1/2	4,211.37	1/2	4,558.31	1/2	4,891.25	1/2	5,207.71	1/2	5,545.19	1/2	5,852.73	1/2	6,169.71	1/2	6,500.11	1/2	6,823.05
3/4	3,859.36	3/4	4,218.74	3/4	4,565.40	3/4	4,898.03	3/4	5,212.84	3/4	5,552.73	3/4	5,859.77	3/4	6,177.25	3/4	6,507.65	3/4	6,830.59
8	3,866.92	8	4,226.10	8	4,572.49	8	4,904.82	8	5,217.96	8	5,560.27	8	5,867.31	8	6,184.79	8	6,515.19	8	6,838.13
1/4	3,874.48	1/4	4,233.45	1/4	4,579.55	1/4	4,911.58	1/4	5,225.11	1/4	5,567.81	1/4	5,874.85	1/4	6,192.33	1/4	6,522.73	1/4	6,845.67
1/2	3,882.03	1/2	4,240.79	1/2	4,586.62	1/2	4,918.34	1/2	5,232.25	1/2	5,575.35	1/2	5,881.97	1/2	6,200.41	1/2	6,530.29	1/2	6,853.21
3/4	3,889.59	3/4	4,248.13	3/4	4,593.69	3/4	4,925.10	3/4	5,239.40	3/4	5,582.90	3/4	5,889.11	3/4	6,208.01	3/4	6,537.81	3/4	6,860.75
9	3,897.15	9	4,255.48	9	4,600.75	9	4,931.86	9	5,246.55	9	5,590.45	9	5,896.27	9	6,215.57	9	6,545.35	9	6,868.29
1/4	3,904.71	1/4	4,262.80	1/4	4,607.80	1/4	4,938.60	1/4	5,253.70	1/4	5,597.99	1/4	5,903.41	1/4	6,223.11	1/4	6,552.89	1/4	6,875.83
1/2	3,912.27	1/2	4,270.12	1/2	4,614.84	1/2	4,945.34	1/2	5,260.85	1/2	5,605.53	1/2	5,910.93	1/2	6,230.65	1/2	6,560.43	1/2	6,883.37
3/4	3,919.83	3/4	4,277.44	3/4	4,621.89	3/4	4,952.08	3/4	5,268.00	3/4	5,613.07	3/4	5,918.07	3/4	6,238.17	3/4	6,567.97	3/4	6,890.91
10	3,927.38	10	4,284.75	10	4,628.93	10	4,958.82	10	5,275.15	10	5,620.61	10	5,925.61	10	6,245.71	10	6,575.51	10	6,898.45
1/4	3,934.94	1/4	4,292.05	1/4	4,635.95	1/4	4,965.54	1/4	5,282.30	1/4	5,628.15	1/4	5,932.75	1/4	6,253.25	1/4	6,583.05	1/4	6,906.00
1/2	3,942.50	1/2	4,299.35	1/2	4,642.97	1/2	4,972.26	1/2	5,289.45	1/2	5,635.69	1/2	5,940.29	1/2	6,260.79	1/2	6,590.59	1/2	6,913.54
3/4	3,950.06	3/4	4,306.65	3/4	4,649.99	3/4	4,978.98	3/4	5,296.60	3/4	5,643.23	3/4	5,947.83	3/4	6,268.33	3/4	6,598.09	3/4	6,921.08
11	3,957.62	11	4,313.94	11	4,657.01	11	4,985.70	11	5,303.75	11	5,650.37	11	5,955.37	11	6,275.87	11	6,605.63	11	6,928.62
1/4	3,965.17	1/4	4,321.22	1/4	4,664.01	1/4	4,992.33	1/4	5,310.90	1/4	5,657.91	1/4	5,962.91	1/4	6,283.41	1/4	6,613.17	1/4	6,936.16
1/2	3,972.72	1/2	4,328.49	1/2	4,671.01	1/2	4,998.96	1/2	5,318.05	1/2	5,665.45	1/2	5,970.45	1/2	6,290.95	1/2	6,620.71	1/2	6,943.71
3/4	3,980.27	3/4	4,335.76	3/4	4,678.01	3/4	5,005.59	3/4	5,325.20	3/4	5,673.00	3/4	5,977.95	3/4	6,298.50	3/4	6,628.25	3/4	6,951.26

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082
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<http://www.pmacorp.net>



BARGE "EMS 521"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	21.37	0	358.89	0	721.26	0	1,082.47	0	1,443.64	0	1,806.02	0	2,168.41	0	2,530.79	0	2,893.08	0	3,255.34
1/4	25.62	1/4	366.44	1/4	728.81	1/4	1,089.97	1/4	1,451.19	1/4	1,813.57	1/4	2,175.96	1/4	2,538.34	1/4	2,900.63	1/4	3,262.89
1/2	29.87	1/2	373.99	1/2	736.36	1/2	1,097.47	1/2	1,458.74	1/2	1,821.12	1/2	2,183.51	1/2	2,545.89	1/2	2,908.18	1/2	3,270.43
3/4	34.11	3/4	381.54	3/4	743.91	3/4	1,104.96	3/4	1,466.29	3/4	1,828.67	3/4	2,191.06	3/4	2,553.44	3/4	2,915.72	3/4	3,277.98
1	38.36	1	389.08	1	751.46	1	1,112.46	1	1,473.84	1	1,836.22	1	2,198.61	1	2,560.99	1	2,923.27	1	3,285.53
1/4	43.86	1/4	396.63	1/4	759.01	1/4	1,119.96	1/4	1,481.39	1/4	1,843.77	1/4	2,206.16	1/4	2,568.54	1/4	2,930.82	1/4	3,293.27
1/2	49.36	1/2	404.18	1/2	766.55	1/2	1,127.46	1/2	1,488.94	1/2	1,851.32	1/2	2,217.71	1/2	2,576.09	1/2	2,938.37	1/2	3,300.62
3/4	54.87	3/4	411.73	3/4	774.10	3/4	1,134.96	3/4	1,496.49	3/4	1,858.87	3/4	2,221.26	3/4	2,583.64	3/4	2,945.91	3/4	3,308.17
2	60.37	2	419.28	2	781.65	2	1,142.45	2	1,504.03	2	1,866.42	2	2,228.81	2	2,591.19	2	2,953.46	2	3,315.72
1/4	67.14	1/4	426.83	1/4	789.20	1/4	1,149.95	1/4	1,511.58	1/4	1,873.97	1/4	2,236.36	1/4	2,598.74	1/4	2,961.01	1/4	3,323.26
1/2	73.90	1/2	434.38	1/2	796.75	1/2	1,157.45	1/2	1,519.13	1/2	1,881.52	1/2	2,243.91	1/2	2,606.29	1/2	2,968.55	1/2	3,330.81
3/4	80.66	3/4	441.93	3/4	804.30	3/4	1,164.95	3/4	1,526.68	3/4	1,889.07	3/4	2,251.46	3/4	2,613.84	3/4	2,976.10	3/4	3,338.36
3	87.42	3	449.48	3	811.85	3	1,172.45	3	1,534.23	3	1,896.62	3	2,259.00	3	2,621.39	3	2,983.65	3	3,346.90
1/4	94.89	1/4	457.03	1/4	819.40	1/4	1,179.94	1/4	1,541.78	1/4	1,904.17	1/4	2,266.55	1/4	2,628.94	1/4	2,991.19	1/4	3,353.45
1/2	102.36	1/2	464.58	1/2	826.95	1/2	1,187.44	1/2	1,549.33	1/2	1,914.72	1/2	2,274.10	1/2	2,636.49	1/2	2,998.74	1/2	3,361.00
3/4	109.84	3/4	472.13	3/4	834.50	3/4	1,194.94	3/4	1,556.88	3/4	1,919.27	3/4	2,281.65	3/4	2,644.03	3/4	2,996.29	3/4	3,368.54
4	117.31	4	479.68	4	842.05	4	1,202.44	4	1,564.43	4	1,926.82	4	2,289.20	4	2,651.58	4	3,013.84	4	3,376.09
1/4	124.86	1/4	487.23	1/4	849.60	1/4	1,209.94	1/4	1,571.98	1/4	1,934.37	1/4	2,296.75	1/4	2,659.13	1/4	3,021.38	1/4	3,383.64
1/2	132.40	1/2	494.78	1/2	857.15	1/2	1,217.43	1/2	1,579.53	1/2	1,941.92	1/2	2,304.30	1/2	2,666.67	1/2	3,028.93	1/2	3,391.19
3/4	139.95	3/4	502.33	3/4	864.70	3/4	1,224.93	3/4	1,587.08	3/4	1,949.47	3/4	2,311.85	3/4	2,674.22	3/4	3,036.48	3/4	3,398.73
5	147.50	5	509.87	5	872.25	5	1,232.43	5	1,594.63	5	1,957.02	5	2,319.40	5	2,681.77	5	3,044.02	5	3,406.28
1/4	155.05	1/4	517.42	1/4	879.80	1/4	1,239.94	1/4	1,602.18	1/4	1,964.57	1/4	2,326.95	1/4	2,689.31	1/4	3,051.57	1/4	3,413.83
1/2	162.60	1/2	524.97	1/2	887.34	1/2	1,247.45	1/2	1,609.73	1/2	1,972.12	1/2	2,334.50	1/2	2,696.86	1/2	3,059.12	1/2	3,421.37
3/4	170.15	3/4	532.52	3/4	894.89	3/4	1,254.96	3/4	1,617.28	3/4	1,979.67	3/4	2,342.05	3/4	2,704.41	3/4	3,066.66	3/4	3,428.92
6	177.70	6	540.07	6	902.44	6	1,262.46	6	1,624.83	6	1,987.22	6	2,349.60	6	2,711.96	6	3,074.21	6	3,436.47
1/4	185.25	1/4	547.62	1/4	909.96	1/4	1,270.01	1/4	1,632.38	1/4	1,994.77	1/4	2,357.15	1/4	2,719.50	1/4	3,081.76	1/4	3,444.01
1/2	192.80	1/2	555.17	1/2	917.47	1/2	1,277.55	1/2	1,639.93	1/2	2,002.32	1/2	2,364.70	1/2	2,727.05	1/2	3,089.31	1/2	3,451.56
3/4	200.35	3/4	562.72	3/4	924.99	3/4	1,285.10	3/4	1,647.48	3/4	2,009.86	3/4	2,372.25	3/4	2,734.60	3/4	3,096.85	3/4	3,459.11
7	207.90	7	570.27	7	932.50	7	1,292.64	7	1,655.03	7	2,017.41	7	2,379.80	7	2,742.14	7	3,104.40	7	3,466.66
1/4	215.45	1/4	577.82	1/4	940.00	1/4	1,300.19	1/4	1,662.58	1/4	2,024.96	1/4	2,387.35	1/4	2,749.69	1/4	3,111.95	1/4	3,474.20
1/2	223.00	1/2	585.37	1/2	947.50	1/2	1,307.74	1/2	1,670.13	1/2	2,032.51	1/2	2,394.90	1/2	2,757.24	1/2	3,119.49	1/2	3,481.75
3/4	230.55	3/4	592.92	3/4	955.00	3/4	1,315.29	3/4	1,677.68	3/4	2,040.06	3/4	2,402.45	3/4	2,764.78	3/4	3,127.04	3/4	3,489.30
8	238.10	8	600.47	8	962.50	8	1,322.84	8	1,685.23	8	2,047.61	8	2,410.00	8	2,772.33	8	3,134.59	8	3,496.84
1/4	245.65	1/4	608.02	1/4	970.00	1/4	1,330.39	1/4	1,692.78	1/4	2,055.16	1/4	2,417.55	1/4	2,779.88	1/4	3,142.13	1/4	3,504.39
1/2	253.20	1/2	615.57	1/2	977.50	1/2	1,337.94	1/2	1,700.33	1/2	2,062.71	1/2	2,425.10	1/2	2,787.43	1/2	3,149.68	1/2	3,511.94
3/4	260.74	3/4	623.12	3/4	985.00	3/4	1,345.49	3/4	1,707.88	3/4	2,070.26	3/4	2,432.65	3/4	2,794.97	3/4	3,157.23	3/4	3,519.48
9	268.29	9	630.67	9	992.49	9	1,353.04	9	1,715.43	9	2,077.81	9	2,440.20	9	2,802.52	9	3,164.78	9	3,527.03
1/4	275.84	1/4	638.21	1/4	999.99	1/4	1,360.59	1/4	1,722.98	1/4	2,085.36	1/4	2,447.75	1/4	2,810.07	1/4	3,172.32	1/4	3,534.58
1/2	283.39	1/2	645.76	1/2	1,007.49	1/2	1,368.14	1/2	1,730.53	1/2	2,092.91	1/2	2,455.30	1/2	2,817.61	1/2	3,179.87	1/2	3,542.13
3/4	290.94	3/4	653.31	3/4	1,014.99	3/4	1,375.69	3/4	1,738.08	3/4	2,100.46	3/4	2,462.85	3/4	2,825.16	3/4	3,187.42	3/4	3,549.67
10	298.49	10	660.86	10	1,022.49	10	1,383.24	10	1,745.63	10	2,108.01	10	2,470.40	10	2,832.71	10	3,194.96	10	3,557.22
1/4	306.04	1/4	668.41	1/4	1,029.98	1/4	1,390.79	1/4	1,753.18	1/4	2,115.56	1/4	2,477.95	1/4	2,840.25	1/4	3,202.51	1/4	3,564.77
1/2	313.59	1/2	675.96	1/2	1,037.48	1/2	1,398.34	1/2	1,760.72	1/2	2,123.11	1/2	2,485.50	1/2	2,847.80	1/2	3,210.06	1/2	3,572.31
3/4	321.14	3/4	683.51	3/4	1,044.98	3/4	1,405.89	3/4	1,768.27	3/4	2,130.66	3/4	2,493.05	3/4	2,855.35	3/4	3,217.60	3/4	3,579.86
11	328.69	11	691.06	11	1,052.48	11	1,413.44	11	1,775.82	11	2,138.21	11	2,500.60	11	2,862.90	11	3,225.15	11	3,587.41
1/4	336.24	1/4	698.61	1/4	1,059.98	1/4	1,420.99	1/4	1,783.37	1/4	2,145.76	1/4	2,508.15	1/4	2,870.44	1/4	3,232.70	1/4	3,594.95
1/2	343.79	1/2	706.16	1/2	1,067.47	1/2	1,428.54	1/2	1,790.92	1/2	2,153.31	1/2	2,515.69	1/2	2,877.99	1/2	3,240.25	1/2	3,602.50
3/4	351.34	3/4	713.71	3/4	1,074.97	3/4	1,436.09	3/4	1,798.47	3/4	2,160.86	3/4	2,523.24	3/4	2,885.54	3/4	3,247.79	3/4	3,610.05

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 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.pimacorp.net>



BARGE "EMS 521"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	3,617.60	0	3,979.80	0	4,334.48	0	4,675.94	0	5,002.68	0		0		0		0		0	
1/4	3,625.14	1/4	3,987.31	1/4	4,341.72	1/4	4,682.90	1/4	5,009.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.69	1/2	3,994.83	1/2	4,348.96	1/2	4,689.86	1/2	5,015.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,640.24	3/4	4,002.35	3/4	4,356.20	3/4	4,696.83	3/4	5,022.46	3/4		3/4		3/4		3/4		3/4	
1	3,647.78	1	4,009.86	1	4,363.44	1	4,703.79	1	5,029.05	1		1		1		1		1	
1 1/4	3,655.33	1 1/4	4,017.35	1 1/4	4,370.65	1 1/4	4,710.71	1 1/4	5,035.62	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,662.88	1 1/2	4,024.85	1 1/2	4,377.87	1 1/2	4,717.63	1 1/2	5,042.18	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,670.42	3/4	4,032.34	3/4	4,385.09	3/4	4,724.54	3/4	5,048.75	3/4		3/4		3/4		3/4		3/4	
2	3,677.97	2	4,039.83	2	4,392.31	2	4,731.46	2	5,055.32	2		2		2		2		2	
1 1/4	3,685.52	1 1/4	4,047.30	1 1/4	4,399.50	1 1/4	4,738.35	1 1/4	5,061.86	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,693.07	1 1/2	4,054.77	1 1/2	4,406.69	1 1/2	4,745.24	1 1/2	5,068.41	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,700.61	3/4	4,062.24	3/4	4,413.89	3/4	4,752.13	3/4	5,074.95	3/4		3/4		3/4		3/4		3/4	
3	3,708.16	3	4,069.71	3	4,421.08	3	4,759.02	3	5,081.50	3		3		3		3		3	
1 1/4	3,715.71	1 1/4	4,077.16	1 1/4	4,428.25	1 1/4	4,765.88	1 1/4	5,088.02	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,723.25	1 1/2	4,084.60	1 1/2	4,435.42	1 1/2	4,772.75	1 1/2	5,094.54	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,730.80	3/4	4,092.05	3/4	4,442.59	3/4	4,779.62	3/4	5,101.07	3/4		3/4		3/4		3/4		3/4	
4	3,738.35	4	4,099.49	4	4,449.77	4	4,786.48	4	5,107.59	4		4		4		4		4	
1 1/4	3,745.89	1 1/4	4,106.92	1 1/4	4,456.91	1 1/4	4,793.33	1 1/4	5,114.09	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,753.44	1 1/2	4,114.34	1 1/2	4,464.06	1 1/2	4,800.17	1 1/2	5,120.59	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,760.99	3/4	4,121.77	3/4	4,471.21	3/4	4,807.01	3/4	5,127.08	3/4		3/4		3/4		3/4		3/4	
5	3,768.54	5	4,129.19	5	4,478.36	5	4,813.86	5	5,133.58	5		5		5		5		5	
1 1/4	3,776.08	1 1/4	4,136.59	1 1/4	4,485.48	1 1/4	4,820.68	1 1/4	5,140.77	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,783.63	1 1/2	4,143.99	1 1/2	4,492.61	1 1/2	4,827.50	1 1/2	5,147.96	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,791.18	3/4	4,151.39	3/4	4,499.73	3/4	4,834.32	3/4	5,155.16	3/4		3/4		3/4		3/4		3/4	
6	3,798.72	6	4,158.79	6	4,506.86	6	4,841.14	6	5,162.35	6		6		6		6		6	
1 1/4	3,806.27	1 1/4	4,166.17	1 1/4	4,513.96	1 1/4	4,847.94	1 1/4	5,168.67	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,813.82	1 1/2	4,173.55	1 1/2	4,521.06	1 1/2	4,854.73	1 1/2	5,175.00	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,821.36	3/4	4,180.92	3/4	4,528.17	3/4	4,861.53	3/4	5,181.33	3/4		3/4		3/4		3/4		3/4	
7	3,828.91	7	4,188.30	7	4,535.27	7	4,868.33	7	5,187.66	7		7		7		7		7	
1 1/4	3,836.46	1 1/4	4,195.66	1 1/4	4,542.35	1 1/4	4,875.10	1 1/4	5,192.77	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,844.01	1 1/2	4,203.01	1 1/2	4,549.43	1 1/2	4,881.88	1 1/2	5,197.88	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,851.55	3/4	4,210.37	3/4	4,556.51	3/4	4,888.65	3/4	5,203.00	3/4		3/4		3/4		3/4		3/4	
8	3,859.10	8	4,217.72	8	4,563.58	8	4,895.43	8	5,208.11	8		8		8		8		8	
1 1/4	3,866.65	1 1/4	4,225.05	1 1/4	4,570.64	1 1/4	4,902.18	1 1/4	5,214.22	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,874.19	1 1/2	4,232.38	1 1/2	4,577.70	1 1/2	4,908.93	1 1/2	5,220.33	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,881.74	3/4	4,239.72	3/4	4,584.75	3/4	4,915.68	3/4	5,226.44	3/4		3/4		3/4		3/4		3/4	
9	3,889.29	9	4,247.05	9	4,591.81	9	4,922.44	9	5,232.55	9		9		9		9		9	
1 1/4	3,896.83	1 1/4	4,254.36	1 1/4	4,598.84	1 1/4	4,929.17	1 1/4	5,238.66	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,904.38	1 1/2	4,261.67	1 1/2	4,605.88	1 1/2	4,935.90	1 1/2	5,244.77	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,911.93	3/4	4,268.97	3/4	4,612.91	3/4	4,942.63	3/4	5,250.88	3/4		3/4		3/4		3/4		3/4	
10	3,919.48	10	4,276.28	10	4,619.94	10	4,949.36	10	5,256.99	10		10		10		10		10	
1 1/4	3,927.02	1 1/4	4,283.57	1 1/4	4,626.95	1 1/4	4,956.07	1 1/4	5,263.10	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,934.57	1 1/2	4,290.85	1 1/2	4,633.96	1 1/2	4,962.78	1 1/2	5,269.21	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,942.12	3/4	4,298.14	3/4	4,640.97	3/4	4,969.49	3/4	5,275.32	3/4		3/4		3/4		3/4		3/4	
11	3,949.66	11	4,305.43	11	4,647.99	11	4,976.19	11	5,281.43	11		11		11		11		11	
1 1/4	3,957.20	1 1/4	4,312.69	1 1/4	4,654.97	1 1/4	4,982.82	1 1/4	5,287.54	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,964.73	1 1/2	4,319.95	1 1/2	4,661.96	1 1/2	4,989.44	1 1/2	5,293.65	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3,972.27	3/4	4,327.21	3/4	4,668.95	3/4	4,996.06	3/4	5,300.76	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.pmacorp.net>



BARGE "EMS 521"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL #C-1248

GAUGE HEIGHT 15'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	21.27	0	357.19	0	717.86	0	1,078.28	0	1,438.71	0	1,799.38	0	2,160.06	0	2,520.74	0	2,881.31	0	3,241.85
1/4	25.50	1/4	364.71	1/4	725.37	1/4	1,085.78	1/4	1,446.22	1/4	1,806.90	1/4	2,167.57	1/4	2,528.25	1/4	2,888.82	1/4	3,249.36
1/2	29.73	1/2	372.22	1/2	732.88	1/2	1,093.28	1/2	1,453.73	1/2	1,814.41	1/2	2,175.09	1/2	2,535.76	1/2	2,896.33	1/2	3,256.87
3/4	33.95	3/4	379.74	3/4	740.40	3/4	1,100.79	3/4	1,461.25	3/4	1,821.93	3/4	2,182.60	3/4	2,543.28	3/4	2,903.84	3/4	3,264.38
1	38.18	1	387.25	1	747.91	1	1,108.29	1	1,468.76	1	1,829.44	1	2,190.12	1	2,550.79	1	2,911.35	1	3,271.89
1/4	43.65	1/4	394.76	1/4	755.43	1/4	1,115.79	1/4	1,476.28	1/4	1,836.95	1/4	2,197.63	1/4	2,558.31	1/4	2,918.86	1/4	3,279.40
1/2	49.13	1/2	402.28	1/2	766.94	1/2	1,123.29	1/2	1,483.79	1/2	1,844.47	1/2	2,205.14	1/2	2,565.82	1/2	2,926.37	1/2	3,286.92
3/4	54.61	3/4	409.79	3/4	770.45	3/4	1,130.79	3/4	1,491.30	3/4	1,851.98	3/4	2,212.66	3/4	2,573.34	3/4	2,933.88	3/4	3,294.43
2	60.09	2	417.31	2	777.97	2	1,138.80	2	1,498.82	2	1,859.50	2	2,220.17	2	2,580.85	2	2,941.40	2	3,301.94
1/4	66.82	1/4	424.82	1/4	785.48	1/4	1,145.80	1/4	1,506.33	1/4	1,867.01	1/4	2,227.69	1/4	2,588.36	1/4	2,948.91	1/4	3,309.45
1/2	73.55	1/2	432.33	1/2	793.00	1/2	1,153.30	1/2	1,513.85	1/2	1,874.52	1/2	2,235.20	1/2	2,595.88	1/2	2,956.42	1/2	3,316.96
3/4	80.28	3/4	439.85	3/4	800.51	3/4	1,160.80	3/4	1,521.36	3/4	1,882.04	3/4	2,242.71	3/4	2,603.39	3/4	2,963.93	3/4	3,324.47
3	87.01	3	447.36	3	808.02	3	1,168.30	3	1,528.88	3	1,889.55	3	2,250.23	3	2,610.91	3	2,971.44	3	3,331.98
1/4	94.45	1/4	454.87	1/4	815.54	1/4	1,175.80	1/4	1,536.39	1/4	1,897.07	1/4	2,257.74	1/4	2,618.42	1/4	2,978.95	1/4	3,339.50
1/2	101.88	1/2	462.39	1/2	823.05	1/2	1,183.31	1/2	1,543.90	1/2	1,904.58	1/2	2,265.26	1/2	2,625.92	1/2	2,986.46	1/2	3,347.01
3/4	109.32	3/4	469.90	3/4	830.56	3/4	1,190.81	3/4	1,551.42	3/4	1,912.09	3/4	2,272.77	3/4	2,633.43	3/4	2,993.98	3/4	3,354.52
4	116.75	4	477.42	4	838.08	4	1,198.31	4	1,558.93	4	1,919.61	4	2,280.29	4	2,640.94	4	3,001.49	4	3,362.03
1/4	124.27	1/4	484.93	1/4	845.59	1/4	1,205.81	1/4	1,566.45	1/4	1,927.12	1/4	2,287.80	1/4	2,648.46	1/4	3,009.00	1/4	3,369.54
1/2	131.78	1/2	492.44	1/2	853.11	1/2	1,213.31	1/2	1,573.96	1/2	1,934.64	1/2	2,295.31	1/2	2,655.97	1/2	3,016.51	1/2	3,377.05
3/4	139.29	3/4	499.96	3/4	860.62	3/4	1,220.82	3/4	1,581.47	3/4	1,942.15	3/4	2,302.83	3/4	2,663.48	3/4	3,024.02	3/4	3,384.56
5	146.81	5	507.47	5	868.13	5	1,228.32	5	1,588.99	5	1,949.66	5	2,310.34	5	2,670.99	5	3,031.53	5	3,392.07
1/4	154.32	1/4	514.98	1/4	875.65	1/4	1,235.83	1/4	1,596.50	1/4	1,957.18	1/4	2,317.86	1/4	2,678.50	1/4	3,039.04	1/4	3,399.59
1/2	161.84	1/2	522.50	1/2	883.16	1/2	1,243.34	1/2	1,604.02	1/2	1,964.69	1/2	2,325.37	1/2	2,686.01	1/2	3,046.55	1/2	3,407.10
3/4	169.35	3/4	530.01	3/4	890.67	3/4	1,250.86	3/4	1,611.53	3/4	1,972.21	3/4	2,332.89	3/4	2,693.52	3/4	3,054.07	3/4	3,414.61
6	176.86	6	537.53	6	898.19	6	1,258.37	6	1,619.04	6	1,979.72	6	2,340.40	6	2,701.03	6	3,061.58	6	3,422.12
1/4	184.38	1/4	545.04	1/4	905.70	1/4	1,265.88	1/4	1,626.56	1/4	1,987.24	1/4	2,347.91	1/4	2,708.55	1/4	3,069.09	1/4	3,429.63
1/2	191.89	1/2	552.55	1/2	913.22	1/2	1,273.40	1/2	1,634.07	1/2	1,994.75	1/2	2,355.43	1/2	2,716.06	1/2	3,076.60	1/2	3,437.14
3/4	199.41	3/4	560.07	3/4	920.73	3/4	1,280.91	3/4	1,641.59	3/4	2,002.26	3/4	2,362.94	3/4	2,723.57	3/4	3,084.11	3/4	3,444.65
7	206.92	7	567.58	7	928.24	7	1,288.42	7	1,649.10	7	2,009.78	7	2,370.45	7	2,731.08	7	3,091.62	7	3,452.16
1/4	214.43	1/4	575.10	1/4	935.75	1/4	1,295.94	1/4	1,656.62	1/4	2,017.29	1/4	2,377.97	1/4	2,738.59	1/4	3,099.13	1/4	3,459.68
1/2	221.95	1/2	582.61	1/2	943.25	1/2	1,303.45	1/2	1,664.13	1/2	2,024.81	1/2	2,385.48	1/2	2,746.10	1/2	3,106.64	1/2	3,467.19
3/4	229.46	3/4	590.12	3/4	950.75	3/4	1,310.97	3/4	1,671.64	3/4	2,032.32	3/4	2,393.00	3/4	2,753.61	3/4	3,114.16	3/4	3,474.70
8	236.97	8	597.64	8	958.25	8	1,318.48	8	1,679.16	8	2,039.83	8	2,400.51	8	2,761.12	8	3,121.67	8	3,482.21
1/4	244.49	1/4	605.15	1/4	965.75	1/4	1,325.99	1/4	1,686.67	1/4	2,047.35	1/4	2,408.03	1/4	2,768.64	1/4	3,129.18	1/4	3,489.72
1/2	252.00	1/2	612.66	1/2	973.26	1/2	1,333.51	1/2	1,694.19	1/2	2,054.86	1/2	2,415.54	1/2	2,776.15	1/2	3,136.69	1/2	3,497.23
3/4	259.52	3/4	620.18	3/4	980.76	3/4	1,341.02	3/4	1,701.70	3/4	2,062.38	3/4	2,423.05	3/4	2,783.66	3/4	3,144.20	3/4	3,504.74
9	267.03	9	627.69	9	988.26	9	1,348.54	9	1,709.21	9	2,069.89	9	2,430.57	9	2,791.17	9	3,151.71	9	3,512.25
1/4	274.54	1/4	635.21	1/4	995.76	1/4	1,356.05	1/4	1,716.73	1/4	2,077.40	1/4	2,438.08	1/4	2,798.68	1/4	3,159.22	1/4	3,519.77
1/2	282.06	1/2	642.72	1/2	1,003.26	1/2	1,363.57	1/2	1,724.24	1/2	2,084.92	1/2	2,445.60	1/2	2,806.19	1/2	3,166.74	1/2	3,527.28
3/4	289.57	3/4	650.23	3/4	1,010.77	3/4	1,371.08	3/4	1,731.76	3/4	2,092.43	3/4	2,453.15	3/4	2,813.70	3/4	3,174.25	3/4	3,534.79
10	297.08	10	657.75	10	1,018.27	10	1,378.59	10	1,739.27	10	2,099.95	10	2,460.62	10	2,821.22	10	3,181.76	10	3,542.30
1/4	304.60	1/4	665.26	1/4	1,025.77	1/4	1,386.11	1/4	1,746.78	1/4	2,107.46	1/4	2,468.14	1/4	2,828.73	1/4	3,189.27	1/4	3,549.81
1/2	312.11	1/2	672.77	1/2	1,033.27	1/2	1,393.62	1/2	1,754.30	1/2	2,114.98	1/2	2,475.65	1/2	2,836.24	1/2	3,196.78	1/2	3,557.32
3/4	319.63	3/4	680.29	3/4	1,040.77	3/4	1,401.14	3/4	1,761.81	3/4	2,122.49	3/4	2,483.17	3/4	2,843.75	3/4	3,204.29	3/4	3,564.83
11	327.14	11	687.80	11	1,048.27	11	1,408.65	11	1,769.33	11	2,130.00	11	2,490.68	11	2,851.26	11	3,211.80	11	3,572.35
1/4	334.65	1/4	695.32	1/4	1,055.78	1/4	1,416.16	1/4	1,776.84	1/4	2,137.52	1/4	2,498.19	1/4	2,858.77	1/4	3,219.31	1/4	3,579.86
1/2	342.17	1/2	702.83	1/2	1,063.28	1/2	1,423.68	1/2	1,784.35	1/2	2,145.03	1/2	2,505.71	1/2	2,866.28	1/2	3,226.83	1/2	3,587.37
3/4	349.68	3/4	710.34	3/4	1,070.78	3/4	1,431.19	3/4	1,791.87	3/4	2,152.55	3/4	2,513.22	3/4	2,873.79	3/4	3,234.34	3/4	3,594.88

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmtacorp.net>

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.



BARGE "EMS 521"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	3,602.39	0	3,962.89	0	4,315.87	0	4,655.66	0	4,980.76	0		0		0		0		0	
1/4	3,609.90	1/4	3,970.37	1/4	4,323.08	1/4	4,662.59	1/4	4,987.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,617.41	1/2	3,977.85	1/2	4,330.28	1/2	4,669.52	1/2	4,993.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,624.92	3/4	3,985.33	3/4	4,337.49	3/4	4,676.45	3/4	5,000.43	3/4		3/4		3/4		3/4		3/4	
1	3,632.44	1	3,992.81	1	4,344.69	1	4,683.38	1	5,006.99	1		1		1		1		1	
1/4	3,639.95	1/4	4,000.27	1/4	4,351.87	1/4	4,690.26	1/4	5,013.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,647.46	1/2	4,007.72	1/2	4,359.06	1/2	4,697.14	1/2	5,020.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,654.97	3/4	4,015.18	3/4	4,366.24	3/4	4,704.02	3/4	5,026.59	3/4		3/4		3/4		3/4		3/4	
2	3,662.48	2	4,022.64	2	4,373.42	2	4,710.90	2	5,033.13	2		2		2		2		2	
1/4	3,669.99	1/4	4,030.07	1/4	4,380.58	1/4	4,717.76	1/4	5,039.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.50	1/2	4,037.51	1/2	4,387.74	1/2	4,724.61	1/2	5,046.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,685.01	3/4	4,044.94	3/4	4,394.90	3/4	4,731.47	3/4	5,052.66	3/4		3/4		3/4		3/4		3/4	
3	3,692.53	3	4,052.37	3	4,402.06	3	4,738.32	3	5,059.17	3		3		3		3		3	
1/4	3,700.04	1/4	4,059.78	1/4	4,409.19	1/4	4,745.16	1/4	5,065.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,707.55	1/2	4,067.20	1/2	4,416.33	1/2	4,751.99	1/2	5,072.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,715.06	3/4	4,074.61	3/4	4,423.46	3/4	4,758.82	3/4	5,078.64	3/4		3/4		3/4		3/4		3/4	
4	3,722.57	4	4,082.02	4	4,430.60	4	4,765.65	4	5,085.12	4		4		4		4		4	
1/4	3,730.08	1/4	4,089.41	1/4	4,437.71	1/4	4,772.46	1/4	5,091.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,737.59	1/2	4,096.79	1/2	4,444.83	1/2	4,779.27	1/2	5,098.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,745.11	3/4	4,104.18	3/4	4,451.94	3/4	4,786.08	3/4	5,104.52	3/4		3/4		3/4		3/4		3/4	
5	3,752.62	5	4,111.57	5	4,459.05	5	4,792.89	5	5,110.98	5		5		5		5		5	
1/4	3,760.13	1/4	4,118.94	1/4	4,466.14	1/4	4,799.68	1/4	5,118.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,767.64	1/2	4,126.30	1/2	4,473.23	1/2	4,806.46	1/2	5,125.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,775.15	3/4	4,133.67	3/4	4,480.32	3/4	4,813.25	3/4	5,132.46	3/4		3/4		3/4		3/4		3/4	
6	3,782.66	6	4,141.03	6	4,487.41	6	4,820.04	6	5,139.61	6		6		6		6		6	
1/4	3,790.17	1/4	4,148.37	1/4	4,494.48	1/4	4,826.80	1/4	5,145.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,797.68	1/2	4,155.72	1/2	4,501.55	1/2	4,833.56	1/2	5,152.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,805.20	3/4	4,163.06	3/4	4,508.62	3/4	4,840.33	3/4	5,158.51	3/4		3/4		3/4		3/4		3/4	
7	3,812.71	7	4,170.40	7	4,515.68	7	4,847.09	7	5,164.80	7		7		7		7		7	
1/4	3,820.22	1/4	4,177.72	1/4	4,522.73	1/4	4,853.83	1/4	5,169.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,827.73	1/2	4,185.04	1/2	4,529.77	1/2	4,860.57	1/2	5,174.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,835.24	3/4	4,192.36	3/4	4,536.82	3/4	4,867.31	3/4	5,180.07	3/4		3/4		3/4		3/4		3/4	
8	3,842.75	8	4,199.68	8	4,543.86	8	4,874.05	8	5,185.16	8		8		8		8		8	
1/4	3,850.26	1/4	4,206.97	1/4	4,550.88	1/4	4,880.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,857.77	1/2	4,214.27	1/2	4,557.91	1/2	4,887.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,865.29	3/4	4,221.57	3/4	4,564.93	3/4	4,894.20	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,872.80	9	4,228.86	9	4,571.95	9	4,900.92	9		9		9		9		9		9	
1/4	3,880.31	1/4	4,236.14	1/4	4,578.95	1/4	4,907.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,887.82	1/2	4,243.41	1/2	4,585.95	1/2	4,914.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,895.33	3/4	4,250.69	3/4	4,592.94	3/4	4,921.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,902.84	10	4,257.96	10	4,599.94	10	4,927.71	10		10		10		10		10		10	
1/4	3,910.35	1/4	4,265.21	1/4	4,606.92	1/4	4,934.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,917.87	1/2	4,272.46	1/2	4,613.89	1/2	4,941.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,925.38	3/4	4,279.71	3/4	4,620.87	3/4	4,947.73	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,932.89	11	4,286.96	11	4,627.85	11	4,954.41	11		11		11		11		11		11	
1/4	3,940.39	1/4	4,294.19	1/4	4,634.80	1/4	4,961.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,947.89	1/2	4,301.42	1/2	4,641.75	1/2	4,967.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,955.39	3/4	4,308.64	3/4	4,648.71	3/4	4,974.17	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



GAUGE HEIGHT 15'-08"

The Honorable

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	
1/4	3,595.08	1/4	3,595.44	1/4	3,602.61	1/4	3,603.94	1/4	3,610.14	1/4	3,617.67	1/4	3,625.20	1/4	3,632.73	1/4	3,640.26	1/4	3,647.78	1/4
1/2	3,610.14	1/2	3,971.44	1/2	4,324.71	1/2	4,664.74	1/2	5,003.00	1/2	5,345.26	1/2	5,686.51	1/2	6,027.76	1/2	6,368.81	1/2	6,710.06	1/2
3/4	3,617.67	3/4	3,978.93	3/4	4,331.93	3/4	4,671.69	3/4	5,009.55	3/4	5,349.80	3/4	5,690.05	3/4	6,030.30	3/4	6,370.55	3/4	6,711.80	3/4
1	3,625.20	1	3,986.43	1	4,339.15	1	4,678.63	1	5,009.55	1	5,349.80	1	5,690.05	1	6,030.30	1	6,370.55	1	6,711.80	1
1/4	3,632.73	1/4	3,993.91	1/4	4,346.35	1/4	4,685.53	1/4	5,009.55	1/4	5,349.80	1/4	5,690.05	1/4	6,030.30	1/4	6,370.55	1/4	6,711.80	1/4
1/2	3,640.26	1/2	4,001.38	1/2	4,353.55	1/2	4,692.43	1/2	5,016.10	1/2	5,356.34	1/2	5,706.59	1/2	6,046.94	1/2	6,387.39	1/2	6,728.84	1/2
3/4	3,647.78	3/4	4,008.86	3/4	4,360.75	3/4	4,699.33	3/4	5,022.65	3/4	5,363.84	3/4	5,714.29	3/4	6,054.74	3/4	6,405.19	3/4	6,740.64	3/4
2	3,655.51	2	4,016.33	2	4,367.95	2	4,706.23	2	5,029.20	2	5,369.65	2	5,719.10	2	6,060.55	2	6,411.00	2	6,746.00	2
1/4	3,662.84	1/4	4,023.78	1/4	4,375.12	1/4	4,713.10	1/4	5,035.73	1/4	5,371.67	1/4	5,721.62	1/4	6,072.57	1/4	6,423.52	1/4	6,753.47	1/4
1/2	3,670.37	1/2	4,031.23	1/2	4,382.30	1/2	4,719.97	1/2	5,042.26	1/2	5,384.20	1/2	5,734.15	1/2	6,085.09	1/2	6,435.97	1/2	6,759.92	1/2
3/4	3,677.90	3/4	4,038.69	3/4	4,389.47	3/4	4,726.84	3/4	5,048.78	3/4	5,396.73	3/4	5,746.68	3/4	6,097.58	3/4	6,448.52	3/4	6,767.40	3/4
3	3,685.43	3	4,046.14	3	4,396.65	3	4,733.71	3	5,055.31	3	5,396.73	3	5,746.68	3	6,097.58	3	6,448.52	3	6,767.40	3
1/4	3,692.96	1/4	4,053.57	1/4	4,403.80	1/4	4,740.56	1/4	5,061.81	1/4	5,402.06	1/4	5,752.01	1/4	6,108.63	1/4	6,459.58	1/4	6,778.88	1/4
1/2	3,700.49	1/2	4,060.99	1/2	4,410.96	1/2	4,747.41	1/2	5,068.31	1/2	5,409.56	1/2	5,759.51	1/2	6,115.18	1/2	6,466.01	1/2	6,785.31	1/2
3/4	3,708.02	3/4	4,068.42	3/4	4,418.11	3/4	4,754.26	3/4	5,074.82	3/4	5,416.81	3/4	5,767.06	3/4	6,121.63	3/4	6,472.44	3/4	6,791.84	3/4
4	3,715.55	4	4,075.85	4	4,425.26	4	4,761.10	4	5,081.32	4	5,423.32	4	5,773.32	4	6,128.13	4	6,479.94	4	6,800.04	4
1/4	3,723.08	1/4	4,083.26	1/4	4,432.39	1/4	4,767.93	1/4	5,087.80	1/4	5,430.43	1/4	5,782.43	1/4	6,134.63	1/4	6,486.13	1/4	6,806.23	1/4
1/2	3,730.61	1/2	4,090.66	1/2	4,439.52	1/2	4,774.75	1/2	5,094.28	1/2	5,437.53	1/2	5,789.53	1/2	6,140.7					

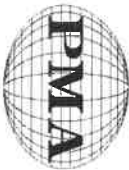
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW

**CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020**

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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



BARGE "EMS 521"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL #C-1248

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	21.24	0	356.59	0	716.64	0	1,076.49	0	1,436.39	0	1,796.45	0	2,156.49	0	2,516.47	0	2,876.26	0	3,235.16
1/4	25.46	1/4	364.09	1/4	724.14	1/4	1,083.98	1/4	1,443.89	1/4	1,803.95	1/4	2,163.99	1/4	2,523.97	1/4	2,883.74	1/4	3,242.61
1/2	29.68	1/2	371.59	1/2	731.64	1/2	1,091.47	1/2	1,451.39	1/2	1,811.45	1/2	2,171.49	1/2	2,531.47	1/2	2,891.23	1/2	3,250.06
3/4	33.90	3/4	379.09	3/4	739.14	3/4	1,098.97	3/4	1,458.89	3/4	1,818.95	3/4	2,178.99	3/4	2,538.97	3/4	2,898.71	3/4	3,257.52
1	38.11	1	386.60	1	746.64	1	1,106.46	1	1,466.39	1	1,826.45	1	2,186.49	1	2,546.47	1	2,906.20	1	3,264.97
1/4	42.38	1/4	394.10	1/4	754.14	1/4	1,113.95	1/4	1,473.89	1/4	1,833.95	1/4	2,193.99	1/4	2,553.97	1/4	2,913.68	1/4	3,272.42
1/2	46.05	1/2	401.60	1/2	761.65	1/2	1,121.44	1/2	1,481.39	1/2	1,841.46	1/2	2,201.49	1/2	2,561.47	1/2	2,921.17	1/2	3,279.87
3/4	54.52	3/4	409.10	3/4	769.15	3/4	1,128.93	3/4	1,488.89	3/4	1,848.96	3/4	2,208.99	3/4	2,568.97	3/4	2,928.65	3/4	3,287.32
2	59.99	2	416.60	2	776.65	2	1,136.43	2	1,496.40	2	1,856.46	2	2,216.49	2	2,576.47	2	2,936.14	2	3,294.77
1/4	66.71	1/4	424.10	1/4	784.15	1/4	1,143.92	1/4	1,503.90	1/4	1,863.96	1/4	2,223.99	1/4	2,583.97	1/4	2,943.62	1/4	3,302.22
1/2	73.43	1/2	431.60	1/2	791.65	1/2	1,151.41	1/2	1,511.40	1/2	1,871.46	1/2	2,231.48	1/2	2,591.47	1/2	2,951.11	1/2	3,309.67
3/4	80.15	3/4	439.10	3/4	799.15	3/4	1,158.90	3/4	1,518.90	3/4	1,878.96	3/4	2,238.98	3/4	2,598.97	3/4	2,958.60	3/4	3,317.13
3	86.87	3	446.60	3	806.65	3	1,166.49	3	1,526.40	3	1,886.46	3	2,246.48	3	2,606.46	3	2,966.08	3	3,324.58
1/4	94.29	1/4	454.10	1/4	814.15	1/4	1,173.89	1/4	1,533.90	1/4	1,893.96	1/4	2,253.98	1/4	2,613.96	1/4	2,973.57	1/4	3,332.04
1/2	101.71	1/2	461.61	1/2	821.65	1/2	1,181.38	1/2	1,541.40	1/2	1,901.47	1/2	2,261.48	1/2	2,621.46	1/2	2,981.05	1/2	3,339.51
3/4	109.14	3/4	469.11	3/4	829.15	3/4	1,188.87	3/4	1,548.90	3/4	1,908.97	3/4	2,268.98	3/4	2,628.96	3/4	2,988.54	3/4	3,346.97
4	116.56	4	476.61	4	836.66	4	1,196.36	4	1,556.41	4	1,916.47	4	2,276.48	4	2,636.45	4	2,996.02	4	3,354.44
1/4	124.06	1/4	484.11	1/4	844.16	1/4	1,203.86	1/4	1,563.91	1/4	1,923.97	1/4	2,283.98	1/4	2,643.95	1/4	3,003.51	1/4	3,361.90
1/2	131.56	1/2	491.61	1/2	851.66	1/2	1,211.36	1/2	1,571.41	1/2	1,931.47	1/2	2,291.48	1/2	2,651.45	1/2	3,010.99	1/2	3,369.37
3/4	139.06	3/4	499.11	3/4	859.16	3/4	1,218.85	3/4	1,578.91	3/4	1,938.97	3/4	2,298.98	3/4	2,658.95	3/4	3,018.48	3/4	3,376.84
5	146.56	5	506.61	5	866.66	5	1,226.35	5	1,586.41	5	1,946.47	5	2,306.48	5	2,666.45	5	3,025.45	5	3,384.30
1/4	154.06	1/4	514.11	1/4	874.16	1/4	1,233.85	1/4	1,593.91	1/4	1,953.98	1/4	2,313.98	1/4	2,673.95	1/4	3,032.95	1/4	3,391.77
1/2	161.57	1/2	521.61	1/2	881.66	1/2	1,241.35	1/2	1,601.41	1/2	1,961.48	1/2	2,321.48	1/2	2,681.44	1/2	3,040.93	1/2	3,399.24
3/4	169.07	3/4	529.11	3/4	889.16	3/4	1,248.85	3/4	1,608.92	3/4	1,968.98	3/4	2,328.98	3/4	2,688.94	3/4	3,048.42	3/4	3,406.70
6	176.57	6	536.62	6	896.66	6	1,256.35	6	1,616.42	6	1,976.48	6	2,336.48	6	2,696.44	6	3,055.91	6	3,414.17
1/4	184.07	1/4	544.12	1/4	904.16	1/4	1,263.86	1/4	1,623.92	1/4	1,983.98	1/4	2,343.98	1/4	2,703.94	1/4	3,063.39	1/4	3,421.64
1/2	191.57	1/2	551.62	1/2	911.66	1/2	1,271.36	1/2	1,631.42	1/2	1,991.48	1/2	2,351.48	1/2	2,711.44	1/2	3,070.88	1/2	3,429.10
3/4	199.07	3/4	559.12	3/4	919.15	3/4	1,278.86	3/4	1,638.92	3/4	1,998.98	3/4	2,358.98	3/4	2,718.93	3/4	3,078.36	3/4	3,436.57
7	206.57	7	566.62	7	926.65	7	1,286.36	7	1,646.42	7	2,006.48	7	2,366.48	7	2,726.43	7	3,085.85	7	3,444.04
1/4	214.07	1/4	574.12	1/4	934.14	1/4	1,293.86	1/4	1,653.92	1/4	2,013.99	1/4	2,373.98	1/4	2,733.93	1/4	3,093.33	1/4	3,451.50
1/2	221.57	1/2	581.62	1/2	941.64	1/2	1,301.36	1/2	1,661.42	1/2	2,021.49	1/2	2,381.48	1/2	2,741.43	1/2	3,100.82	1/2	3,458.97
3/4	229.07	3/4	589.12	3/4	949.13	3/4	1,308.86	3/4	1,668.93	3/4	2,028.99	3/4	2,388.98	3/4	2,748.93	3/4	3,108.30	3/4	3,466.44
8	236.58	8	596.62	8	956.62	8	1,316.36	8	1,676.43	8	2,036.49	8	2,396.48	8	2,756.42	8	3,115.79	8	3,473.90
1/4	244.08	1/4	604.12	1/4	964.11	1/4	1,323.87	1/4	1,683.93	1/4	2,043.99	1/4	2,403.98	1/4	2,763.92	1/4	3,123.27	1/4	3,481.37
1/2	251.58	1/2	611.63	1/2	971.60	1/2	1,331.37	1/2	1,691.43	1/2	2,051.49	1/2	2,411.48	1/2	2,771.42	1/2	3,130.76	1/2	3,488.84
3/4	259.08	3/4	619.13	3/4	979.10	3/4	1,338.87	3/4	1,698.93	3/4	2,058.99	3/4	2,418.97	3/4	2,778.92	3/4	3,138.24	3/4	3,496.30
9	266.58	9	626.63	9	986.59	9	1,346.37	9	1,706.43	9	2,066.49	9	2,426.47	9	2,786.42	9	3,145.73	9	3,503.77
1/4	274.08	1/4	634.13	1/4	994.08	1/4	1,353.87	1/4	1,713.93	1/4	2,073.99	1/4	2,433.97	1/4	2,793.91	1/4	3,153.19	1/4	3,508.23
1/2	281.58	1/2	641.63	1/2	1,001.57	1/2	1,361.37	1/2	1,721.43	1/2	2,081.49	1/2	2,441.47	1/2	2,801.40	1/2	3,160.64	1/2	3,512.70
3/4	289.08	3/4	649.13	3/4	1,009.06	3/4	1,368.87	3/4	1,728.94	3/4	2,088.99	3/4	2,448.97	3/4	2,808.89	3/4	3,168.10	3/4	3,517.17
10	296.58	10	656.63	10	1,016.56	10	1,376.38	10	1,736.44	10	2,096.49	10	2,456.47	10	2,816.37	10	3,175.55	10	3,521.63
1/4	304.08	1/4	664.13	1/4	1,024.05	1/4	1,383.88	1/4	1,743.94	1/4	2,103.99	1/4	2,463.97	1/4	2,823.86	1/4	3,183.00	1/4	3,525.67
1/2	311.59	1/2	671.63	1/2	1,031.54	1/2	1,391.38	1/2	1,751.44	1/2	2,111.49	1/2	2,471.47	1/2	2,831.34	1/2	3,190.45	1/2	3,529.70
3/4	319.09	3/4	679.13	3/4	1,039.03	3/4	1,398.88	3/4	1,758.94	3/4	2,118.99	3/4	2,478.97	3/4	2,838.83	3/4	3,197.91	3/4	3,533.74
11	326.59	11	686.64	11	1,046.52	11	1,406.38	11	1,766.44	11	2,126.49	11	2,486.47	11	2,846.31	11	3,205.36	11	3,537.78
1/4	334.09	1/4	694.14	1/4	1,054.01	1/4	1,413.88	1/4	1,773.94	1/4	2,133.99	1/4	2,493.97	1/4	2,853.80	1/4	3,212.81	1/4	3,541.81
1/2	341.59	1/2	701.64	1/2	1,061.51	1/2	1,421.38	1/2	1,781.45	1/2	2,141.49	1/2	2,501.47	1/2	2,861.29	1/2	3,220.26	1/2	3,545.85
3/4	349.09	3/4	709.14	3/4	1,069.00	3/4	1,428.88	3/4	1,788.95	3/4	2,148.99	3/4	2,508.97	3/4	2,868.77	3/4	3,227.71	3/4	3,549.89

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 521"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	3,553.92	0	3,747.65	0	3,937.33	0	4,119.93	0	4,294.67	0		0		0		0		0	
1/4	3,557.96	1/4	3,751.66	1/4	3,941.20	1/4	4,123.65	1/4	4,298.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,562.00	1/2	3,755.68	1/2	3,945.07	1/2	4,127.38	1/2	4,301.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.03	3/4	3,759.70	3/4	3,948.95	3/4	4,131.10	3/4	4,305.24	3/4		3/4		3/4		3/4		3/4	
1	3,570.07	1	3,763.72	1	3,952.82	1	4,134.83	1	4,308.77	1		1		1		1		1	
1/4	3,574.10	1/4	3,767.73	1/4	3,956.68	1/4	4,138.52	1/4	4,312.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.14	1/2	3,771.74	1/2	3,960.54	1/2	4,142.22	1/2	4,315.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.18	3/4	3,775.74	3/4	3,964.40	3/4	4,146.92	3/4	4,319.30	3/4		3/4		3/4		3/4		3/4	
2	3,586.21	2	3,779.75	2	3,968.26	2	4,149.62	2	4,322.81	2		2		2		2		2	
1/4	3,590.25	1/4	3,783.75	1/4	3,972.10	1/4	4,153.31	1/4	4,326.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,594.29	1/2	3,787.74	1/2	3,975.95	1/2	4,156.99	1/2	4,329.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.32	3/4	3,791.74	3/4	3,979.80	3/4	4,160.68	3/4	4,333.31	3/4		3/4		3/4		3/4		3/4	
3	3,602.36	3	3,795.73	3	3,983.64	3	4,164.36	3	4,336.81	3		3		3		3		3	
1/4	3,606.40	1/4	3,799.71	1/4	3,987.48	1/4	4,168.03	1/4	4,340.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,610.43	1/2	3,803.70	1/2	3,991.31	1/2	4,171.71	1/2	4,343.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,614.47	3/4	3,807.68	3/4	3,995.15	3/4	4,175.38	3/4	4,347.27	3/4		3/4		3/4		3/4		3/4	
4	3,618.50	4	3,811.66	4	3,998.98	4	4,179.05	4	4,350.75	4		4		4		4		4	
1/4	3,622.54	1/4	3,815.63	1/4	4,002.81	1/4	4,182.71	1/4	4,354.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,626.58	1/2	3,819.60	1/2	4,006.63	1/2	4,186.37	1/2	4,357.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,630.61	3/4	3,823.57	3/4	4,010.45	3/4	4,190.03	3/4	4,361.17	3/4		3/4		3/4		3/4		3/4	
5	3,634.65	5	3,827.54	5	4,014.27	5	4,193.69	5	4,364.65	5		5		5		5		5	
1/4	3,638.69	1/4	3,831.50	1/4	4,018.08	1/4	4,197.34	1/4	4,368.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,642.72	1/2	3,835.46	1/2	4,021.89	1/2	4,200.99	1/2	4,372.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.76	3/4	3,839.42	3/4	4,025.70	3/4	4,204.64	3/4	4,376.00	3/4		3/4		3/4		3/4		3/4	
6	3,650.80	6	3,843.37	6	4,029.52	6	4,208.29	6	4,379.79	6		6		6		6		6	
1/4	3,654.83	1/4	3,847.32	1/4	4,033.31	1/4	4,211.92	1/4	4,382.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.87	1/2	3,851.27	1/2	4,037.11	1/2	4,215.56	1/2	4,385.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,662.91	3/4	3,855.21	3/4	4,040.91	3/4	4,219.19	3/4	4,388.40	3/4		3/4		3/4		3/4		3/4	
7	3,666.94	7	3,859.16	7	4,044.71	7	4,222.83	7	4,391.27	7		7		7		7		7	
1/4	3,670.98	1/4	3,863.09	1/4	4,048.49	1/4	4,226.45	1/4	4,392.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,675.01	1/2	3,867.02	1/2	4,052.28	1/2	4,230.08	1/2	4,394.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,679.05	3/4	3,870.96	3/4	4,056.06	3/4	4,233.70	3/4	4,396.23	3/4		3/4		3/4		3/4		3/4	
8	3,683.09	8	3,874.89	8	4,059.85	8	4,237.32	8	4,397.88	8		8		8		8		8	
1/4	3,687.12	1/4	3,878.81	1/4	4,063.62	1/4	4,240.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.16	1/2	3,882.73	1/2	4,067.40	1/2	4,244.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.20	3/4	3,886.65	3/4	4,071.17	3/4	4,248.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,699.23	9	3,890.57	9	4,074.94	9	4,251.77	9		9		9		9		9		9	
1/4	3,703.27	1/4	3,894.48	1/4	4,078.70	1/4	4,255.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,707.31	1/2	3,898.39	1/2	4,082.47	1/2	4,258.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,711.34	3/4	3,902.30	3/4	4,086.23	3/4	4,262.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,715.38	10	3,906.21	10	4,089.99	10	4,266.16	10		10		10		10		10		10	
1/4	3,719.41	1/4	3,910.10	1/4	4,093.74	1/4	4,269.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,723.45	1/2	3,914.00	1/2	4,097.49	1/2	4,273.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,727.49	3/4	3,917.90	3/4	4,101.23	3/4	4,276.92	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,731.52	11	3,921.79	11	4,104.98	11	4,280.51	11		11		11		11		11		11	
1/4	3,735.55	1/4	3,925.68	1/4	4,108.72	1/4	4,284.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,739.58	1/2	3,929.56	1/2	4,112.46	1/2	4,287.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,743.61	3/4	3,933.45	3/4	4,116.19	3/4	4,291.13	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 521"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												HULL #C-1248												GAUGE HEIGHT 15'-08 3/4"											
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.														
0	21.22	0	355.77	0	714.96	0	1,062.60	0	1,415.21	0	1,773.77	0	2,132.83	0	2,491.83	0	2,850.65	0	3,208.40	0	3,567.17														
1/4	25.44	1/4	363.26	1/4	722.45	1/4	1,069.75	1/4	1,422.63	1/4	1,781.25	1/4	2,140.31	1/4	2,499.31	1/4	2,858.12	1/4	3,215.83	1/4	3,573.44														
1/2	29.65	1/2	370.74	1/2	729.93	1/2	1,076.89	1/2	1,430.05	1/2	1,788.73	1/2	2,147.79	1/2	2,506.79	1/2	2,865.58	1/2	3,223.26	1/2	3,580.81														
3/4	33.87	3/4	378.22	3/4	737.41	3/4	1,084.04	3/4	1,436.27	3/4	1,796.21	3/4	2,155.27	3/4	2,514.27	3/4	2,873.05	3/4	3,230.69	3/4	3,588.32														
1	38.08	1	385.71	1	744.90	1	1,091.19	1	1,444.88	1	1,803.70	1	2,162.75	1	2,521.75	1	2,880.51	1	3,238.12	1	3,593.69														
1/4	42.54	1/4	393.19	1/4	752.38	1/4	1,098.33	1/4	1,452.30	1/4	1,811.18	1/4	2,170.23	1/4	2,529.23	1/4	2,887.97	1/4	3,245.56	1/4	3,600.13														
1/2	46.99	1/2	400.67	1/2	759.86	1/2	1,105.48	1/2	1,459.72	1/2	1,818.66	1/2	2,177.71	1/2	2,536.71	1/2	2,895.43	1/2	3,252.99	1/2	3,608.56														
3/4	51.45	3/4	408.16	3/4	767.34	3/4	1,112.62	3/4	1,467.14	3/4	1,826.14	3/4	2,185.19	3/4	2,544.19	3/4	2,902.89	3/4	3,260.42	3/4	3,613.01														
2	55.90	2	415.64	2	774.83	2	1,119.77	2	1,474.56	2	1,833.62	2	2,192.67	2	2,551.67	2	2,910.35	2	3,267.85	2	3,618.08														
1/4	60.36	1/4	423.12	1/4	782.31	1/4	1,126.91	1/4	1,482.04	1/4	1,841.10	1/4	2,200.15	1/4	2,559.15	1/4	2,917.80	1/4	3,275.28	1/4	3,620.85														
1/2	64.81	1/2	430.61	1/2	789.79	1/2	1,134.06	1/2	1,489.51	1/2	1,848.58	1/2	2,207.63	1/2	2,566.63	1/2	2,925.26	1/2	3,282.71	1/2	3,625.90														
3/4	69.26	3/4	438.09	3/4	797.28	3/4	1,141.21	3/4	1,496.98	3/4	1,856.06	3/4	2,215.10	3/4	2,574.11	3/4	2,932.72	3/4	3,290.14	3/4	3,631.03														
3	73.71	3	445.57	3	804.76	3	1,148.35	3	1,504.46	3	1,863.54	3	2,222.58	3	2,581.59	3	2,940.18	3	3,297.57	3	3,636.12														
1/4	78.16	1/4	453.05	1/4	811.99	1/4	1,155.75	1/4	1,511.94	1/4	1,871.02	1/4	2,230.06	1/4	2,589.06	1/4	2,947.63	1/4	3,305.02	1/4	3,641.19														
1/2	82.61	1/2	460.54	1/2	819.23	1/2	1,163.14	1/2	1,519.42	1/2	1,878.51	1/2	2,237.54	1/2	2,596.54	1/2	2,955.09	1/2	3,312.46	1/2	3,646.26														
3/4	87.06	3/4	468.02	3/4	826.46	3/4	1,170.53	3/4	1,526.90	3/4	1,885.99	3/4	2,245.02	3/4	2,604.02	3/4	2,962.55	3/4	3,319.90	3/4	3,651.35														
4	91.51	4	475.50	4	833.70	4	1,177.93	4	1,534.38	4	1,893.47	4	2,252.50	4	2,611.50	4	2,970.01	4	3,327.35	4	3,656.44														
1/4	95.96	1/4	482.99	1/4	840.87	1/4	1,185.33	1/4	1,541.86	1/4	1,900.95	1/4	2,259.98	1/4	2,618.98	1/4	2,977.46	1/4	3,334.80	1/4	3,661.53														
1/2	100.41	1/2	490.47	1/2	848.05	1/2	1,192.74	1/2	1,549.34	1/2	1,908.43	1/2	2,267.46	1/2	2,626.46	1/2	2,984.92	1/2	3,342.24	1/2	3,666.62														
3/4	104.86	3/4	497.95	3/4	855.22	3/4	1,200.14	3/4	1,556.82	3/4	1,915.91	3/4	2,274.94	3/4	2,633.93	3/4	2,992.38	3/4	3,349.69	3/4	3,671.71														
5	109.31	5	505.44	5	862.40	5	1,207.54	5	1,564.30	5	1,923.39	5	2,282.42	5	2,641.41	5	2,997.84	5	3,357.13	5	3,676.80														
1/4	113.76	1/4	512.92	1/4	869.57	1/4	1,214.95	1/4	1,571.78	1/4	1,930.87	1/4	2,289.90	1/4	2,648.89	1/4	3,002.29	1/4	3,364.58	1/4	3,681.89														
1/2	118.21	1/2	520.40	1/2	876.74	1/2	1,222.35	1/2	1,579.27	1/2	1,938.35	1/2	2,297.38	1/2	2,656.37	1/2	3,014.75	1/2	3,372.03	1/2	3,686.98														
3/4	122.66	3/4	527.89	3/4	883.91	3/4	1,229.75	3/4	1,586.75	3/4	1,945.83	3/4	2,304.85	3/4	2,663.84	3/4	3,022.21	3/4	3,379.47	3/4	3,692.07														
6	127.11	6	535.37	6	891.08	6	1,237.15	6	1,594.23	6	1,953.32	6	2,312.33	6	2,671.32	6	3,029.67	6	3,386.92	6	3,702.16														
1/4	131.56	1/4	542.85	1/4	898.23	1/4	1,244.57	1/4	1,601.71	1/4	1,960.80	1/4	2,319.83	1/4	2,678.80	1/4	3,037.12	1/4	3,394.37	1/4	3,707.25														
1/2	136.01	1/2	550.33	1/2	905.39	1/2	1,251.99	1/2	1,609.19	1/2	1,968.28	1/2	2,327.29	1/2	2,686.28	1/2	3,044.58	1/2	3,401.81	1/2	3,712.34														
3/4	140.46	3/4	557.82	3/4	912.54	3/4	1,259.40	3/4	1,616.67	3/4	1,975.76	3/4	2,334.77	3/4	2,693.76	3/4	3,052.04	3/4	3,409.26	3/4	3,717.43														
7	144.91	7	565.30	7	919.69	7	1,266.82	7	1,624.15	7	1,983.24	7	2,342.25	7	2,701.23	7	3,059.50	7	3,416.71	7	3,722.52														
1/4	149.36	1/4	572.78	1/4	926.83	1/4	1,274.24	1/4	1,631.63	1/4	1,990.72	1/4	2,349.73	1/4	2,708.71	1/4	3,066.96	1/4	3,424.15	1/4	3,727.61														
1/2	153.81	1/2	580.27	1/2	933.98	1/2	1,281.66	1/2	1,639.11	1/2	1,998.20	1/2	2,357.21	1/2	2,716.19	1/2	3,074.42	1/2	3,431.60	1/2	3,732.70														
3/4	158.26	3/4	587.75	3/4	941.13	3/4	1,289.08	3/4	1,646.59	3/4	2,005.68	3/4	2,364.69	3/4	2,723.67	3/4	3,081.85	3/4	3,439.05	3/4	3,737.79														
8	162.71	8	595.23	8	948.27	8	1,296.50	8	1,654.08	8	2,013.16	8	2,372.17	8	2,731.14	8	3,089.35	8	3,446.49	8	3,742.88														
1/4	167.16	1/4	602.72	1/4	955.42	1/4	1,303.92	1/4	1,661.56	1/4	2,020.64	1/4	2,379.65	1/4	2,738.62	1/4	3,096.82	1/4	3,453.94	1/4	3,747.97														
1/2	171.61	1/2	610.20	1/2	962.56	1/2	1,311.34	1/2	1,669.04	1/2	2,028.12	1/2	2,387.13	1/2	2,746.10	1/2	3,104.28	1/2	3,461.38	1/2	3,753.06														
3/4	176.06	3/4	617.68	3/4	969.71	3/4	1,318.76	3/4	1,676.52	3/4	2,035.60	3/4	2,394.61	3/4	2,753.58	3/4	3,111.75	3/4	3,468.83	3/4	3,758.15														
9	180.51	9	625.17	9	976.86	9	1,326.18	9	1,684.00	9	2,043.08	9	2,402.08	9	2,761.06	9	3,119.21	9	3,476.28	9	3,763.24														
1/4	184.96	1/4	632.65	1/4	984.00	1/4	1,333.60	1/4	1,691.48	1/4	2,050.56	1/4	2,409.56	1/4	2,768.53	1/4	3,126.65	1/4	3,483.72	1/4	3,768.33														
1/2	189.41	1/2	640.13	1/2	991.15	1/2	1,341.01	1/2	1,698.96	1/2	2,058.04	1/2	2,417.04	1/2	2,776.00	1/2	3,134.08	1/2	3,489.17	1/2	3,773.42														
3/4	193.86	3/4	647.62	3/4	998.29	3/4	1,348.43	3/4	1,706.44	3/4	2,065.52	3/4	2,424.52	3/4	2,783.46	3/4	3,141.52	3/4	3,498.62	3/4	3,778.51														
10	198.31	10	655.10	10	1,005.44	10	1,355.85	10	1,713.92	10	2,073.00	10	2,432.00	10	2,790.93	10	3,148.95	10	3,494.06	10	3,783.60														
1/4	202.76	1/4	662.58	1/4	1,012.58	1/4	1,363.27	1/4	1,721.40	1/4	2,080.48	1/4	2,439.48	1/4	2,798.39	1/4	3,156.38	1/4	3,498.08	1/4	3,788.69														
1/2	207.21	1/2	670.06	1/2	1,019.73	1/2	1,370.69	1/2	1,728.89	1/2	2,087.96	1/2	2,446.96	1/2	2,805.86	1/2	3,163.82	1/2	3,502.10	1/2	3,793.80														
3/4	211.66	3/4	677.55	3/4	1,026.87	3/4	1,378.11	3/4	1,736.37	3/4	2,095.44	3/4	2,454.44	3/4	2,813.33	3/4	3,171.25	3/4	3,506.11	3/4	3,798.91														
11	215.84	11	685.03	11	1,034.02	11	1,385.53	11	1,743.85	11	2,102.92	11	2,461.92	11	2,820.79	11	3,178.68	11	3,510.13	11	3,800.22														
1/4	220.29	1/4	692.51	1/4	1,041.17	1/4	1,392.95	1/4	1,751.33	1/4	2,110.40	1/4	2,469.40	1/4	2,828.26	1/4	3,186.11																		



BARGE "EMS 521"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,526.20	0	3,719.01	0	3,907.78	0	4,089.47	0	4,263.30	0		0		0		0		0	
1/4	3,530.22	1/4	3,723.01	1/4	3,911.63	1/4	4,093.47	1/4	4,266.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,534.23	1/2	3,727.01	1/2	3,915.48	1/2	4,096.88	1/2	4,270.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,538.25	3/4	3,731.01	3/4	3,919.34	3/4	4,100.58	3/4	4,273.81	3/4		3/4		3/4		3/4		3/4	
1	3,542.27	1	3,735.01	1	3,923.19	1	4,104.29	1	4,277.32	1		1		1		1		1	
1/4	3,546.29	1/4	3,739.00	1/4	3,927.03	1/4	4,107.97	1/4	4,280.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.30	1/2	3,742.99	1/2	3,930.87	1/2	4,111.65	1/2	4,284.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.32	3/4	3,746.97	3/4	3,934.71	3/4	4,115.33	3/4	4,287.80	3/4		3/4		3/4		3/4		3/4	
2	3,558.34	2	3,750.96	2	3,938.55	2	4,119.01	2	4,291.29	2		2		2		2		2	
1/4	3,562.35	1/4	3,754.94	1/4	3,942.38	1/4	4,122.67	1/4	4,294.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,566.37	1/2	3,758.91	1/2	3,946.21	1/2	4,126.34	1/2	4,298.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,570.39	3/4	3,762.89	3/4	3,950.04	3/4	4,130.01	3/4	4,301.73	3/4		3/4		3/4		3/4		3/4	
3	3,574.41	3	3,766.87	3	3,953.87	3	4,133.67	3	4,305.21	3		3		3		3		3	
1/4	3,578.42	1/4	3,770.83	1/4	3,957.68	1/4	4,137.32	1/4	4,308.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,582.44	1/2	3,774.79	1/2	3,961.50	1/2	4,141.98	1/2	4,312.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,586.46	3/4	3,778.76	3/4	3,965.31	3/4	4,144.63	3/4	4,315.61	3/4		3/4		3/4		3/4		3/4	
4	3,590.47	4	3,782.72	4	3,969.13	4	4,148.29	4	4,319.08	4		4		4		4		4	
1/4	3,594.49	1/4	3,786.67	1/4	3,972.93	1/4	4,151.93	1/4	4,322.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,598.51	1/2	3,790.62	1/2	3,976.74	1/2	4,155.57	1/2	4,325.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.53	3/4	3,794.57	3/4	3,980.54	3/4	4,159.21	3/4	4,329.44	3/4		3/4		3/4		3/4		3/4	
5	3,606.54	5	3,798.52	5	3,984.34	5	4,162.85	5	4,332.90	5		5		5		5		5	
1/4	3,610.56	1/4	3,802.46	1/4	3,988.13	1/4	4,166.48	1/4	4,336.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,614.58	1/2	3,806.40	1/2	3,991.93	1/2	4,170.11	1/2	4,340.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,618.60	3/4	3,810.34	3/4	3,995.72	3/4	4,173.74	3/4	4,344.20	3/4		3/4		3/4		3/4		3/4	
6	3,622.61	6	3,814.28	6	3,999.51	6	4,177.37	6	4,347.96	6		6		6		6		6	
1/4	3,626.63	1/4	3,818.21	1/4	4,003.29	1/4	4,180.99	1/4	4,350.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.65	1/2	3,822.13	1/2	4,007.07	1/2	4,184.60	1/2	4,353.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.66	3/4	3,826.06	3/4	4,010.84	3/4	4,188.22	3/4	4,356.52	3/4		3/4		3/4		3/4		3/4	
7	3,638.68	7	3,829.99	7	4,014.62	7	4,191.84	7	4,359.38	7		7		7		7		7	
1/4	3,642.70	1/4	3,833.90	1/4	4,018.39	1/4	4,195.44	1/4	4,361.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,646.72	1/2	3,837.81	1/2	4,022.16	1/2	4,199.05	1/2	4,362.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.73	3/4	3,841.73	3/4	4,025.92	3/4	4,202.65	3/4	4,364.28	3/4		3/4		3/4		3/4		3/4	
8	3,654.75	8	3,845.64	8	4,029.69	8	4,206.25	8	4,365.92	8		8		8		8		8	
1/4	3,658.77	1/4	3,849.54	1/4	4,033.45	1/4	4,209.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.78	1/2	3,853.45	1/2	4,037.20	1/2	4,213.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.80	3/4	3,857.35	3/4	4,040.95	3/4	4,217.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,670.82	9	3,861.25	9	4,044.71	9	4,220.62	9		9		9		9		9		9	
1/4	3,674.84	1/4	3,865.14	1/4	4,048.45	1/4	4,224.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.85	1/2	3,869.03	1/2	4,052.19	1/2	4,227.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,682.87	3/4	3,872.92	3/4	4,055.93	3/4	4,231.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,686.89	10	3,876.81	10	4,059.68	10	4,234.94	10		10		10		10		10		10	
1/4	3,690.90	1/4	3,880.69	1/4	4,063.41	1/4	4,238.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,694.92	1/2	3,884.56	1/2	4,067.14	1/2	4,242.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,698.94	3/4	3,888.44	3/4	4,070.87	3/4	4,245.65	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,702.96	11	3,892.32	11	4,074.60	11	4,249.21	11		11		11		11		11		11	
1/4	3,706.97	1/4	3,896.18	1/4	4,078.31	1/4	4,252.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.98	1/2	3,900.05	1/2	4,082.03	1/2	4,256.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.00	3/4	3,903.91	3/4	4,085.75	3/4	4,259.78	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "EMS 521"

ULLAGE TRIM TABLE

HULL # 1248

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

(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: 253'-00"

February 10, 2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 521"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	4,911.58	0	4,579.56	0	4,233.45	0	3,874.48	0	3,511.67	0	3,148.86	0	2,786.05	0	2,423.16		
1/4	1/4	1/4	4,904.82	1/4	4,572.49	1/4	4,226.11	1/4	3,866.92	1/4	3,504.11	1/4	3,141.30	1/4	2,778.50	1/4	2,415.60		
1/2	1/2	1/2	4,898.03	1/2	4,565.40	1/2	4,218.74	1/2	3,859.36	1/2	3,496.55	1/2	3,133.74	1/2	2,770.94	1/2	2,408.04		
3/4	3/4	3/4	4,891.25	3/4	4,558.31	3/4	4,211.38	3/4	3,851.80	3/4	3,488.99	3/4	3,126.19	3/4	2,763.38	3/4	2,400.48		
1	1	1	4,884.47	1	4,551.22	1	4,204.01	1	3,844.24	1	3,481.44	1	3,118.63	1	2,755.82	1	2,392.92		
1/4	1/4	1/4	4,877.68	1/4	4,544.13	1/4	4,196.64	1/4	3,836.69	1/4	3,473.88	1/4	3,111.07	1/4	2,748.26	1/4	2,385.36		
1/2	1/2	1/2	4,870.87	1/2	4,537.02	1/2	4,189.25	1/2	3,829.13	1/2	3,466.32	1/2	3,103.51	1/2	2,740.70	1/2	2,377.80		
3/4	3/4	3/4	4,864.07	3/4	4,529.91	3/4	4,181.87	3/4	3,821.57	3/4	3,458.76	3/4	3,095.95	3/4	2,733.14	3/4	2,370.24		
2	2	2	4,857.26	2	4,522.79	2	4,174.48	2	3,814.01	2	3,451.20	2	3,088.39	2	2,725.59	2	2,362.67		
1/4	1/4	1/4	4,850.45	1/4	4,515.68	1/4	4,167.09	1/4	3,806.45	1/4	3,443.64	1/4	3,080.84	1/4	2,718.03	1/4	2,355.11		
1/2	1/2	1/2	4,843.62	1/2	4,508.54	1/2	4,159.68	1/2	3,798.89	1/2	3,436.08	1/2	3,073.28	1/2	2,710.47	1/2	2,347.55		
3/4	3/4	3/4	4,836.79	3/4	4,501.41	3/4	4,152.26	3/4	3,791.33	3/4	3,428.53	3/4	3,065.72	3/4	2,702.91	3/4	2,339.99		
3	3	3	4,829.96	3	4,494.27	3	4,144.85	3	3,783.78	3	3,420.97	3	3,058.16	3	2,695.35	3	2,332.43		
1/4	1/4	1/4	4,823.13	1/4	4,487.14	1/4	4,137.44	1/4	3,776.22	1/4	3,413.41	1/4	3,050.60	1/4	2,687.79	1/4	2,324.87		
1/2	1/2	1/2	4,816.27	1/2	4,479.98	1/2	4,130.01	1/2	3,768.66	1/2	3,405.85	1/2	3,043.04	1/2	2,680.23	1/2	2,317.31		
3/4	3/4	3/4	4,809.42	3/4	4,472.82	3/4	4,122.57	3/4	3,761.10	3/4	3,398.29	3/4	3,035.48	3/4	2,672.68	3/4	2,309.75		
4	4	4	4,802.57	4	4,465.66	4	4,115.14	4	3,753.54	4	3,390.73	4	3,027.93	4	2,665.12	4	2,302.18		
1/4	1/4	1/4	4,795.71	1/4	4,458.50	1/4	4,107.70	1/4	3,745.98	1/4	3,383.18	1/4	3,020.37	1/4	2,657.56	1/4	2,294.62		
1/2	1/2	1/2	4,788.84	1/2	4,451.32	1/2	4,100.24	1/2	3,738.42	1/2	3,375.62	1/2	3,012.81	1/2	2,650.00	1/2	2,287.06		
3/4	3/4	3/4	4,781.96	3/4	4,444.14	3/4	4,092.79	3/4	3,730.87	3/4	3,368.06	3/4	3,005.25	3/4	2,642.44	3/4	2,279.50		
5	5	5	4,775.08	5	4,436.96	5	4,085.33	5	3,723.31	5	3,360.50	5	2,997.69	5	2,634.88	5	2,271.94		
1/4	1/4	1/4	4,768.21	1/4	4,429.77	1/4	4,077.87	1/4	3,715.75	1/4	3,352.94	1/4	2,990.13	1/4	2,627.32	1/4	2,264.38		
1/2	1/2	1/2	4,761.31	1/2	4,422.57	1/2	4,070.39	1/2	3,708.19	1/2	3,345.38	1/2	2,982.57	1/2	2,619.76	1/2	2,256.82		
3/4	3/4	3/4	4,754.41	3/4	4,415.31	3/4	4,062.91	3/4	3,700.63	3/4	3,337.82	3/4	2,975.02	3/4	2,612.20	3/4	2,249.25		
6	6	6	4,747.51	6	4,408.16	6	4,055.43	6	3,693.07	6	3,330.27	6	2,967.46	6	2,604.64	6	2,241.69		
1/4	1/4	1/4	4,740.61	1/4	4,400.95	1/4	4,047.95	1/4	3,685.52	1/4	3,322.71	1/4	2,959.90	1/4	2,597.07	1/4	2,234.13		
1/2	1/2	1/2	4,733.68	1/2	4,393.73	1/2	4,040.44	1/2	3,677.96	1/2	3,315.15	1/2	2,952.34	1/2	2,589.51	1/2	2,226.57		
3/4	3/4	3/4	4,726.76	3/4	4,386.50	3/4	4,032.94	3/4	3,670.40	3/4	3,307.59	3/4	2,944.78	3/4	2,581.95	3/4	2,219.01		
7	7	7	4,719.83	7	4,379.27	7	4,025.43	7	3,662.84	7	3,300.03	7	2,937.22	7	2,574.39	7	2,211.45		
1/4	1/4	1/4	4,712.90	1/4	4,372.04	1/4	4,017.93	1/4	3,655.28	1/4	3,292.47	1/4	2,929.67	1/4	2,566.83	1/4	2,203.89		
1/2	1/2	1/2	4,706.93	1/2	4,364.79	1/2	4,010.40	1/2	3,647.72	1/2	3,284.91	1/2	2,922.11	1/2	2,559.27	1/2	2,196.33		
3/4	3/4	3/4	4,699.96	3/4	4,357.54	3/4	4,002.88	3/4	3,640.16	3/4	3,277.36	3/4	2,914.55	3/4	2,551.71	3/4	2,188.76		
8	8	8	4,691.98	8	4,350.29	8	3,995.35	8	3,632.61	8	3,269.80	8	2,906.99	8	2,544.15	8	2,181.20		
1/4	1/4	1/4	4,685.01	1/4	4,343.04	1/4	3,987.82	1/4	3,625.05	1/4	3,262.24	1/4	2,899.43	1/4	2,536.58	1/4	2,173.64		
1/2	1/2	1/2	4,678.01	1/2	4,335.77	1/2	3,980.27	1/2	3,617.49	1/2	3,254.68	1/2	2,891.87	1/2	2,529.02	1/2	2,166.08		
3/4	3/4	3/4	4,671.01	3/4	4,328.49	3/4	3,972.72	3/4	3,609.93	3/4	3,247.12	3/4	2,884.31	3/4	2,521.46	3/4	2,158.52		
9	9	9	4,664.01	9	4,321.22	9	3,965.17	9	3,602.37	9	3,239.56	9	2,876.76	9	2,513.90	9	2,150.96		
1/4	1/4	1/4	4,657.01	1/4	4,313.94	1/4	3,957.62	1/4	3,594.81	1/4	3,232.01	1/4	2,869.20	1/4	2,506.34	1/4	2,143.40		
1/2	1/2	1/2	4,649.98	1/2	4,306.65	1/2	3,950.06	1/2	3,587.25	1/2	3,224.45	1/2	2,861.64	1/2	2,498.78	1/2	2,135.84		
3/4	3/4	3/4	4,642.97	3/4	4,299.35	3/4	3,942.50	3/4	3,579.70	3/4	3,216.89	3/4	2,854.08	3/4	2,491.22	3/4	2,128.27		
10	10	10	4,635.95	10	4,292.05	10	3,934.95	10	3,572.14	10	3,209.33	10	2,846.52	10	2,483.66	10	2,120.71		
1/4	1/4	1/4	4,628.93	1/4	4,284.76	1/4	3,927.39	1/4	3,564.58	1/4	3,201.77	1/4	2,838.96	1/4	2,476.09	1/4	2,113.15		
1/2	1/2	1/2	4,621.89	1/2	4,277.44	1/2	3,919.83	1/2	3,557.02	1/2	3,194.21	1/2	2,831.40	1/2	2,468.53	1/2	2,105.59		
3/4	3/4	3/4	4,614.84	3/4	4,270.12	3/4	3,912.27	3/4	3,549.46	3/4	3,186.65	3/4	2,823.85	3/4	2,460.97	3/4	2,098.03		
11	11	11	4,607.80	11	4,262.80	11	3,904.71	11	3,541.90	11	3,179.10	11	2,816.29	11	2,453.41	11	2,090.47		
1/4	1/4	1/4	4,600.76	1/4	4,255.48	1/4	3,897.15	1/4	3,534.35	1/4	3,171.54	1/4	2,808.73	1/4	2,445.85	1/4	2,082.91		
1/2	1/2	1/2	4,593.69	1/2	4,248.14	1/2	3,889.59	1/2	3,526.79	1/2	3,163.98	1/2	2,801.17	1/2	2,438.29	1/2	2,075.35		
3/4	3/4	3/4	4,586.62	3/4	4,240.79	3/4	3,882.04	3/4	3,519.23	3/4	3,156.42	3/4	2,793.61	3/4	2,430.73	3/4	2,067.78		

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 LIP 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.pimacorp.net>



BARGE "EMS 521"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	2,060.22	0	1,697.28	0	1,334.34	0	971.83	0	608.95	0	246.03	0		0		0		0	
1/4	2,052.66	1/4	1,689.72	1/4	1,326.78	1/4	964.28	1/4	601.39	1/4	238.47	1/4		1/4		1/4		1/4	
1/2	2,045.10	1/2	1,682.16	1/2	1,319.22	1/2	956.73	1/2	593.83	1/2	230.90	1/2		1/2		1/2		1/2	
3/4	2,037.54	3/4	1,674.60	3/4	1,311.65	3/4	949.18	3/4	586.27	3/4	223.34	3/4		3/4		3/4		3/4	
1	2,029.98	1	1,667.03	1	1,304.09	1	941.63	1	578.71	1	215.78	1		1		1		1	
1/4	2,022.42	1/4	1,659.47	1/4	1,296.53	1/4	934.08	1/4	571.15	1/4	208.22	1/4		1/4		1/4		1/4	
1/2	2,014.85	1/2	1,651.91	1/2	1,288.97	1/2	926.52	1/2	563.59	1/2	200.66	1/2		1/2		1/2		1/2	
3/4	2,007.29	3/4	1,644.35	3/4	1,281.41	3/4	918.96	3/4	556.03	3/4	193.10	3/4		3/4		3/4		3/4	
2	1,999.73	2	1,636.79	2	1,273.85	2	911.39	2	548.47	2	185.54	2		2		2		2	
1/4	1,992.17	1/4	1,629.23	1/4	1,266.29	1/4	903.83	1/4	540.91	1/4	177.98	1/4		1/4		1/4		1/4	
1/2	1,984.61	1/2	1,621.67	1/2	1,258.73	1/2	896.27	1/2	533.34	1/2	170.42	1/2		1/2		1/2		1/2	
3/4	1,977.05	3/4	1,614.11	3/4	1,251.17	3/4	888.71	3/4	525.78	3/4	162.86	3/4		3/4		3/4		3/4	
3	1,969.49	3	1,606.54	3	1,243.61	3	881.15	3	518.22	3	155.29	3		3		3		3	
1/4	1,961.93	1/4	1,598.98	1/4	1,236.05	1/4	873.59	1/4	510.66	1/4	147.73	1/4		1/4		1/4		1/4	
1/2	1,954.36	1/2	1,591.42	1/2	1,228.50	1/2	866.03	1/2	503.10	1/2	140.17	1/2		1/2		1/2		1/2	
3/4	1,946.80	3/4	1,583.86	3/4	1,220.95	3/4	858.47	3/4	495.54	3/4	132.61	3/4		3/4		3/4		3/4	
4	1,939.24	4	1,576.30	4	1,213.40	4	850.91	4	487.98	4	125.05	4		4		4		4	
1/4	1,931.68	1/4	1,568.74	1/4	1,205.85	1/4	843.35	1/4	480.42	1/4	117.49	1/4		1/4		1/4		1/4	
1/2	1,924.12	1/2	1,561.18	1/2	1,198.30	1/2	835.78	1/2	472.86	1/2	110.01	1/2		1/2		1/2		1/2	
3/4	1,916.56	3/4	1,553.62	3/4	1,190.75	3/4	828.22	3/4	465.30	3/4	102.53	3/4		3/4		3/4		3/4	
5	1,909.00	5	1,546.05	5	1,183.20	5	820.66	5	457.73	5	95.04	5		5		5		5	
1/4	1,901.44	1/4	1,538.49	1/4	1,175.65	1/4	813.10	1/4	450.17	1/4	87.56	1/4		1/4		1/4		1/4	
1/2	1,893.87	1/2	1,530.93	1/2	1,168.10	1/2	805.54	1/2	442.61	1/2	80.79	1/2		1/2		1/2		1/2	
3/4	1,886.31	3/4	1,523.37	3/4	1,160.56	3/4	797.98	3/4	435.05	3/4	74.01	3/4		3/4		3/4		3/4	
6	1,878.75	6	1,515.81	6	1,153.01	6	790.42	6	427.49	6	67.24	6		6		6		6	
1/4	1,871.19	1/4	1,508.25	1/4	1,145.46	1/4	782.86	1/4	419.93	1/4	60.47	1/4		1/4		1/4		1/4	
1/2	1,863.63	1/2	1,500.69	1/2	1,137.91	1/2	775.30	1/2	412.37	1/2	54.96	1/2		1/2		1/2		1/2	
3/4	1,856.07	3/4	1,493.12	3/4	1,130.36	3/4	767.74	3/4	404.81	3/4	49.44	3/4		3/4		3/4		3/4	
7	1,848.51	7	1,485.56	7	1,122.81	7	760.17	7	397.25	7	43.93	7		7		7		7	
1/4	1,840.94	1/4	1,478.00	1/4	1,115.26	1/4	752.61	1/4	389.69	1/4	38.42	1/4		1/4		1/4		1/4	
1/2	1,833.38	1/2	1,470.44	1/2	1,107.71	1/2	745.05	1/2	382.12	1/2	34.17	1/2		1/2		1/2		1/2	
3/4	1,825.82	3/4	1,462.88	3/4	1,100.16	3/4	737.49	3/4	374.56	3/4	29.91	3/4		3/4		3/4		3/4	
8	1,818.26	8	1,455.32	8	1,092.61	8	729.93	8	367.00	8	25.66	8		8		8		8	
1/4	1,810.70	1/4	1,447.76	1/4	1,085.07	1/4	722.37	1/4	359.44	1/4	21.41	1/4		1/4		1/4		1/4	
1/2	1,803.14	1/2	1,440.20	1/2	1,077.52	1/2	714.81	1/2	351.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,795.58	3/4	1,432.63	3/4	1,069.97	3/4	707.25	3/4	344.32	3/4		3/4		3/4		3/4		3/4	
9	1,788.02	9	1,425.07	9	1,062.42	9	699.69	9	336.76	9		9		9		9		9	
1/4	1,780.45	1/4	1,417.51	1/4	1,054.87	1/4	692.13	1/4	329.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,772.89	1/2	1,409.95	1/2	1,047.32	1/2	684.56	1/2	321.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,765.33	3/4	1,402.39	3/4	1,039.77	3/4	677.00	3/4	314.08	3/4		3/4		3/4		3/4		3/4	
10	1,757.77	10	1,394.83	10	1,032.22	10	669.44	10	306.51	10		10		10		10		10	
1/4	1,750.21	1/4	1,387.27	1/4	1,024.67	1/4	661.88	1/4	298.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,742.65	1/2	1,379.71	1/2	1,017.12	1/2	654.32	1/2	291.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,735.09	3/4	1,372.14	3/4	1,009.58	3/4	646.76	3/4	283.83	3/4		3/4		3/4		3/4		3/4	
11	1,727.53	11	1,364.58	11	1,002.03	11	639.20	11	276.27	11		11		11		11		11	
1/4	1,719.96	1/4	1,357.02	1/4	994.48	1/4	631.64	1/4	268.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.40	1/2	1,349.46	1/2	986.93	1/2	624.08	1/2	261.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.84	3/4	1,341.90	3/4	979.38	3/4	616.52	3/4	253.59	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW
CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
<http://www.pmacorp.net>



GAUGE HEIGHT 15'-08-1/2"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

Gauge Point: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

<http://www.pmacorp.net>



BARGE "EMS 521"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

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	2,062.71	0	1,700.32	0	1,337.94	0	977.49	0	615.56	0	253.19	0		0		0		0	
1/4	2,056.16	1/4	1,692.77	1/4	1,330.39	1/4	970.00	1/4	608.01	1/4	245.64	1/4		1/4		1/4		1/4	
1/2	2,047.61	1/2	1,685.23	1/2	1,322.84	1/2	962.50	1/2	600.47	1/2	238.09	1/2		1/2		1/2		1/2	
3/4	2,040.06	3/4	1,677.68	3/4	1,315.29	3/4	955.00	3/4	592.92	3/4	230.54	3/4		3/4		3/4		3/4	
1	2,032.51	1	1,670.13	1	1,307.74	1	947.50	1	585.37	1	223.00	1		1		1		1	
1/4	2,024.96	1/4	1,662.58	1/4	1,300.19	1/4	940.00	1/4	577.82	1/4	215.45	1/4		1/4		1/4		1/4	
1/2	2,017.41	1/2	1,655.03	1/2	1,292.64	1/2	932.50	1/2	570.27	1/2	207.90	1/2		1/2		1/2		1/2	
3/4	2,009.86	3/4	1,647.48	3/4	1,285.10	3/4	924.99	3/4	562.72	3/4	200.35	3/4		3/4		3/4		3/4	
2	2,002.31	2	1,639.93	2	1,277.55	2	917.47	2	555.17	2	192.80	2		2		2		2	
1/4	1,994.76	1/4	1,632.38	1/4	1,270.01	1/4	909.96	1/4	547.62	1/4	185.25	1/4		1/4		1/4		1/4	
1/2	1,987.21	1/2	1,624.83	1/2	1,262.46	1/2	902.44	1/2	540.07	1/2	177.70	1/2		1/2		1/2		1/2	
3/4	1,979.66	3/4	1,617.28	3/4	1,254.95	3/4	894.89	3/4	532.52	3/4	170.15	3/4		3/4		3/4		3/4	
3	1,972.11	3	1,609.73	3	1,247.44	3	887.34	3	524.97	3	162.60	3		3		3		3	
1/4	1,964.56	1/4	1,602.18	1/4	1,239.94	1/4	879.79	1/4	517.42	1/4	155.05	1/4		1/4		1/4		1/4	
1/2	1,957.01	1/2	1,594.63	1/2	1,232.43	1/2	872.24	1/2	509.87	1/2	147.50	1/2		1/2		1/2		1/2	
3/4	1,949.46	3/4	1,587.08	3/4	1,224.93	3/4	864.69	3/4	502.32	3/4	139.95	3/4		3/4		3/4		3/4	
4	1,941.91	4	1,579.53	4	1,217.43	4	857.14	4	494.77	4	132.40	4		4		4		4	
1/4	1,934.37	1/4	1,571.98	1/4	1,209.93	1/4	849.60	1/4	487.22	1/4	124.85	1/4		1/4		1/4		1/4	
1/2	1,926.82	1/2	1,564.43	1/2	1,202.43	1/2	842.05	1/2	479.67	1/2	117.30	1/2		1/2		1/2		1/2	
3/4	1,919.27	3/4	1,556.88	3/4	1,194.94	3/4	834.50	3/4	472.13	3/4	109.83	3/4		3/4		3/4		3/4	
5	1,911.72	5	1,549.33	5	1,187.44	5	826.95	5	464.58	5	102.36	5		5		5		5	
1/4	1,904.17	1/4	1,541.78	1/4	1,179.94	1/4	819.40	1/4	457.03	1/4	94.89	1/4		1/4		1/4		1/4	
1/2	1,896.62	1/2	1,534.23	1/2	1,172.44	1/2	811.85	1/2	449.48	1/2	87.42	1/2		1/2		1/2		1/2	
3/4	1,889.07	3/4	1,526.68	3/4	1,164.94	3/4	804.30	3/4	441.93	3/4	80.66	3/4		3/4		3/4		3/4	
6	1,881.52	6	1,519.13	6	1,157.45	6	796.75	6	434.38	6	73.90	6		6		6		6	
1/4	1,873.97	1/4	1,511.58	1/4	1,149.95	1/4	789.20	1/4	426.83	1/4	67.13	1/4		1/4		1/4		1/4	
1/2	1,866.42	1/2	1,504.03	1/2	1,142.45	1/2	781.65	1/2	419.28	1/2	60.37	1/2		1/2		1/2		1/2	
3/4	1,858.87	3/4	1,496.48	3/4	1,134.95	3/4	774.10	3/4	411.73	3/4	54.87	3/4		3/4		3/4		3/4	
7	1,851.32	7	1,488.93	7	1,127.45	7	766.55	7	404.18	7	49.36	7		7		7		7	
1/4	1,843.77	1/4	1,481.38	1/4	1,119.96	1/4	759.00	1/4	396.63	1/4	43.86	1/4		1/4		1/4		1/4	
1/2	1,836.22	1/2	1,473.83	1/2	1,112.46	1/2	751.45	1/2	389.08	1/2	38.35	1/2		1/2		1/2		1/2	
3/4	1,828.67	3/4	1,466.28	3/4	1,104.96	3/4	743.90	3/4	381.53	3/4	34.11	3/4		3/4		3/4		3/4	
8	1,821.12	8	1,458.73	8	1,097.46	8	736.35	8	373.98	8	29.86	8		8		8		8	
1/4	1,813.57	1/4	1,451.18	1/4	1,089.96	1/4	728.80	1/4	366.43	1/4	25.62	1/4		1/4		1/4		1/4	
1/2	1,806.02	1/2	1,443.63	1/2	1,082.47	1/2	721.26	1/2	358.88	1/2	21.37	1/2		1/2		1/2		1/2	
3/4	1,798.47	3/4	1,436.09	3/4	1,074.97	3/4	713.71	3/4	351.33	3/4		3/4		3/4		3/4		3/4	
9	1,790.92	9	1,428.54	9	1,067.47	9	706.16	9	343.79	9		9		9		9		9	
1/4	1,783.37	1/4	1,420.99	1/4	1,059.97	1/4	698.61	1/4	336.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,775.82	1/2	1,413.44	1/2	1,052.47	1/2	691.06	1/2	328.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,768.27	3/4	1,405.89	3/4	1,044.98	3/4	683.51	3/4	321.14	3/4		3/4		3/4		3/4		3/4	
10	1,760.72	10	1,398.34	10	1,037.48	10	675.96	10	313.59	10		10		10		10		10	
1/4	1,753.17	1/4	1,390.79	1/4	1,029.98	1/4	668.41	1/4	306.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,745.62	1/2	1,383.24	1/2	1,022.48	1/2	660.86	1/2	298.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,738.07	3/4	1,375.69	3/4	1,014.98	3/4	653.31	3/4	290.94	3/4		3/4		3/4		3/4		3/4	
11	1,730.52	11	1,368.14	11	1,007.49	11	645.76	11	283.39	11		11		11		11		11	
1/4	1,722.97	1/4	1,360.59	1/4	999.99	1/4	638.21	1/4	275.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,715.42	1/2	1,353.04	1/2	992.49	1/2	630.66	1/2	268.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,707.87	3/4	1,345.49	3/4	984.99	3/4	623.11	3/4	260.74	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pasland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 521"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08"

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	5,185.16	4,874.05	4,543.86	4,199.67	3,842.75	3,482.21	3,121.66	2,761.12	2,400.51
1/4	1/4	5,180.07	4,869.31	4,538.81	4,192.36	3,835.24	3,474.69	3,114.15	2,753.61	2,392.99
1/2	1/2	5,174.98	4,860.57	4,529.77	4,185.04	3,827.73	3,467.18	3,106.64	2,746.10	2,385.48
3/4	3/4	5,169.89	4,853.83	4,522.73	4,177.72	3,820.21	3,459.67	3,099.13	2,737.96	2,377.96
1	1	5,164.80	4,847.09	4,515.68	4,170.40	3,812.70	3,452.16	3,091.62	2,731.08	2,370.45
1/4	1/4	5,158.50	4,840.32	4,508.61	4,163.05	3,805.19	3,444.65	3,084.11	2,723.56	2,362.94
1/2	1/2	5,152.21	4,833.56	4,501.55	4,155.72	3,797.68	3,437.14	3,076.60	2,716.05	2,355.42
3/4	3/4	5,145.91	4,826.80	4,494.48	4,148.37	3,790.17	3,429.63	3,069.08	2,708.54	2,347.91
2	2	5,139.61	4,820.03	4,487.41	4,141.03	3,782.66	3,422.12	3,061.57	2,701.03	2,340.39
1/4	1/4	5,132.45	4,813.25	4,480.32	4,133.66	3,775.15	3,414.60	3,054.06	2,693.52	2,332.88
1/2	1/2	5,125.30	4,806.46	4,473.23	4,126.30	3,767.64	3,407.09	3,046.55	2,686.01	2,325.37
3/4	3/4	5,118.14	4,799.67	4,466.14	4,118.93	3,760.12	3,399.58	3,039.04	2,678.50	2,317.85
3	3	5,110.98	4,792.89	4,459.05	4,111.57	3,752.61	3,392.07	3,031.53	2,670.99	2,310.34
1/4	1/4	5,104.52	4,786.08	4,451.94	4,104.18	3,745.10	3,384.56	3,024.02	2,663.47	2,302.82
1/2	1/2	5,098.05	4,779.27	4,444.82	4,096.79	3,737.59	3,377.05	3,016.51	2,655.96	2,295.31
3/4	3/4	5,091.59	4,772.46	4,437.71	4,089.40	3,730.08	3,369.54	3,008.99	2,648.45	2,287.80
4	4	5,085.12	4,765.65	4,430.60	4,082.01	3,722.57	3,362.03	3,001.48	2,640.94	2,280.28
1/4	1/4	5,078.63	4,758.82	4,423.46	4,074.60	3,715.06	3,354.51	2,993.97	2,633.43	2,272.77
1/2	1/2	5,072.14	4,751.99	4,416.32	4,067.19	3,707.55	3,347.00	2,986.46	2,625.92	2,265.25
3/4	3/4	5,065.66	4,745.15	4,409.19	4,059.78	3,700.03	3,339.49	2,978.95	2,618.41	2,257.74
5	5	5,059.17	4,738.32	4,402.05	4,052.37	3,692.52	3,331.98	2,971.44	2,610.90	2,250.23
1/4	1/4	5,052.66	4,731.47	4,394.89	4,044.94	3,685.01	3,324.47	2,963.93	2,603.39	2,242.71
1/2	1/2	5,046.14	4,724.61	4,387.73	4,037.50	3,677.50	3,316.96	2,956.41	2,595.87	2,235.20
3/4	3/4	5,039.63	4,717.76	4,380.58	4,030.07	3,669.99	3,309.45	2,948.90	2,588.36	2,227.68
6	6	5,033.12	4,710.90	4,373.42	4,022.63	3,662.48	3,301.93	2,941.39	2,580.85	2,220.17
1/4	1/4	5,026.59	4,704.05	4,366.23	4,015.18	3,654.97	3,294.42	2,933.88	2,573.33	2,212.65
1/2	1/2	5,020.05	4,697.14	4,359.05	4,007.72	3,647.45	3,286.91	2,926.37	2,565.82	2,205.14
3/4	3/4	5,013.52	4,690.26	4,351.87	4,000.26	3,639.94	3,279.40	2,918.86	2,558.30	2,197.63
7	7	5,006.99	4,683.37	4,344.69	3,992.81	3,632.43	3,271.89	2,911.35	2,550.79	2,190.11
1/4	1/4	5,000.43	4,676.44	4,337.48	3,985.33	3,624.92	3,264.38	2,903.84	2,543.28	2,182.60
1/2	1/2	4,993.87	4,669.51	4,330.28	3,977.85	3,617.41	3,256.87	2,896.32	2,535.76	2,175.08
3/4	3/4	4,987.32	4,662.58	4,323.07	3,970.37	3,609.90	3,249.36	2,888.81	2,528.25	2,167.57
8	8	4,980.76	4,655.65	4,315.87	3,962.89	3,602.39	3,241.84	2,881.30	2,520.73	2,160.06
1/4	1/4	4,974.17	4,648.70	4,308.64	3,955.39	3,594.88	3,234.33	2,873.79	2,513.22	2,152.54
1/2	1/2	4,967.58	4,641.75	4,301.41	3,947.89	3,587.36	3,226.82	2,866.28	2,505.70	2,145.03
3/4	3/4	4,960.99	4,634.80	4,294.19	3,940.38	3,579.85	3,219.31	2,858.77	2,498.19	2,137.51
9	9	4,954.40	4,627.84	4,286.96	3,932.88	3,572.34	3,211.80	2,851.26	2,490.68	2,130.00
1/4	1/4	4,947.73	4,620.87	4,279.71	3,925.37	3,564.83	3,204.29	2,843.75	2,483.16	2,122.49
1/2	1/2	4,941.05	4,613.89	4,272.46	3,917.86	3,557.32	3,196.78	2,836.23	2,475.65	2,114.97
3/4	3/4	4,934.38	4,606.92	4,265.21	3,910.35	3,549.81	3,189.27	2,828.72	2,468.13	2,107.46
10	10	4,927.71	4,599.94	4,257.96	3,902.84	3,542.30	3,181.75	2,821.21	2,460.62	2,099.94
1/4	1/4	4,921.01	4,592.94	4,250.68	3,895.33	3,534.79	3,174.24	2,813.70	2,453.11	2,092.43
1/2	1/2	4,914.31	4,585.94	4,243.41	3,887.82	3,527.27	3,166.73	2,806.19	2,445.59	2,084.91
3/4	3/4	4,907.62	4,578.94	4,236.13	3,880.30	3,519.76	3,159.22	2,798.68	2,438.08	2,077.40
11	11	4,900.92	4,571.95	4,228.86	3,872.79	3,512.25	3,151.71	2,791.17	2,430.56	2,069.89
1/4	1/4	4,894.20	4,564.92	4,221.56	3,865.28	3,504.74	3,144.20	2,783.66	2,423.05	2,062.37
1/2	1/2	4,887.48	4,557.90	4,214.27	3,857.77	3,497.23	3,136.69	2,776.14	2,415.54	2,054.86
3/4	3/4	4,880.77	4,550.88	4,206.97	3,850.26	3,489.72	3,129.17	2,768.63	2,408.02	2,047.34

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS 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 LIP 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.primcorp.net>



CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08"

ID	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.
1	IN	2,039.83	0	1,679.15	0	1,318.48	0	958.25	0	597.63	0	236.97	0		0		0		0	
1/4	1/4	2,032.32	1/4	1,671.64	1/4	1,310.96	1/4	950.75	1/4	590.12	1/4	229.46	1/4		1/4		1/4		1/4	
1/2	1/2	2,024.80	1/2	1,664.13	1/2	1,303.45	1/2	943.24	1/2	582.61	1/2	221.94	1/2		1/2		1/2		1/2	
3/4	3/4	2,017.27	3/4	1,656.61	3/4	1,295.93	3/4	935.74	3/4	575.09	3/4	214.43	3/4		3/4		3/4		3/4	
1	1	2,009.77	1	1,649.10	1	1,288.42	1	928.24	1	567.58	1	206.92	1		1		1		1	
1/4	1/4	2,002.26	1/4	1,641.58	1/4	1,280.91	1/4	920.73	1/4	560.06	1/4	199.40	1/4		1/4		1/4		1/4	
1/2	1/2	1,994.75	1/2	1,634.07	1/2	1,273.39	1/2	913.21	1/2	552.55	1/2	191.89	1/2		1/2		1/2		1/2	
3/4	3/4	1,987.23	3/4	1,626.55	3/4	1,265.88	3/4	905.70	3/4	545.04	3/4	184.37	3/4		3/4		3/4		3/4	
1	1	1,979.72	2	1,619.04	2	1,258.36	2	898.18	2	537.52	2	176.86	2		2		2		2	
1/4	1/4	1,972.20	1/4	1,611.53	1/4	1,250.85	1/4	890.67	1/4	530.01	1/4	169.35	1/4		1/4		1/4		1/4	
1/2	1/2	1,964.69	1/2	1,604.01	1/2	1,243.34	1/2	883.16	1/2	522.49	1/2	161.83	1/2		1/2		1/2		1/2	
3/4	3/4	1,957.18	3/4	1,596.50	3/4	1,235.83	3/4	875.64	3/4	514.98	3/4	154.32	3/4		3/4		3/4		3/4	
1	1	1,949.66	3	1,588.98	3	1,228.31	3	868.13	3	507.47	3	146.80	3		3		3		3	
1/4	1/4	1,942.15	1/4	1,581.47	1/4	1,220.81	1/4	860.62	1/4	499.95	1/4	139.29	1/4		1/4		1/4		1/4	
1/2	1/2	1,934.63	1/2	1,573.96	1/2	1,213.31	1/2	853.10	1/2	492.44	1/2	131.78	1/2		1/2		1/2		1/2	
3/4	3/4	1,927.12	3/4	1,566.44	3/4	1,205.81	3/4	845.59	3/4	484.93	3/4	124.26	3/4		3/4		3/4		3/4	
1	1	1,919.60	4	1,558.93	4	1,198.31	4	838.07	4	477.41	4	116.75	4		4		4		4	
1/4	1/4	1,912.09	1/4	1,551.41	1/4	1,190.80	1/4	830.56	1/4	469.90	1/4	109.31	1/4		1/4		1/4		1/4	
1/2	1/2	1,904.58	1/2	1,543.90	1/2	1,183.30	1/2	823.05	1/2	462.38	1/2	101.88	1/2		1/2		1/2		1/2	
3/4	3/4	1,897.06	3/4	1,536.39	3/4	1,175.80	3/4	815.53	3/4	454.87	3/4	94.44	3/4		3/4		3/4		3/4	
1	1	1,889.55	5	1,528.87	5	1,168.30	5	808.02	5	447.36	5	87.01	5		5		5		5	
1/4	1/4	1,882.03	1/4	1,521.36	1/4	1,160.80	1/4	800.51	1/4	439.84	1/4	80.28	1/4		1/4		1/4		1/4	
1/2	1/2	1,874.52	1/2	1,513.84	1/2	1,153.30	1/2	792.99	1/2	432.33	1/2	73.55	1/2		1/2		1/2		1/2	
3/4	3/4	1,867.01	3/4	1,506.33	3/4	1,145.79	3/4	785.48	3/4	424.82	3/4	66.82	3/4		3/4		3/4		3/4	
1	1	1,859.49	6	1,498.82	6	1,138.29	6	777.96	6	417.30	6	60.08	6		6		6		6	
1/4	1/4	1,851.98	1/4	1,491.30	1/4	1,130.79	1/4	770.45	1/4	409.79	1/4	54.61	1/4		1/4		1/4		1/4	
1/2	1/2	1,844.46	1/2	1,483.79	1/2	1,123.29	1/2	762.94	1/2	402.27	1/2	49.13	1/2		1/2		1/2		1/2	
3/4	3/4	1,836.95	3/4	1,476.27	3/4	1,115.79	3/4	755.42	3/4	394.76	3/4	43.65	3/4		3/4		3/4		3/4	
1	1	1,829.44	7	1,468.76	7	1,108.28	7	747.91	7	387.25	7	38.17	7		7		7		7	
1/4	1/4	1,821.92	1/4	1,461.24	1/4	1,100.78	1/4	740.39	1/4	379.73	1/4	33.95	1/4		1/4		1/4		1/4	
1/2	1/2	1,814.41	1/2	1,453.73	1/2	1,093.28	1/2	732.88	1/2	372.22	1/2	29.72	1/2		1/2		1/2		1/2	
3/4	3/4	1,806.89	3/4	1,446.22	3/4	1,085.78	3/4	725.37	3/4	364.70	3/4	25.50	3/4		3/4		3/4		3/4	
1	1	1,799.38	8	1,438.70	8	1,078.28	8	717.85	8	357.19	8	21.27	8		8		8		8	
1/4	1/4	1,791.87	1/4	1,431.19	1/4	1,070.78	1/4	710.34	1/4	349.68	1/4		1/4		1/4		1/4		1/4	
1/2	1/2	1,784.35	1/2	1,423.67	1/2	1,063.27	1/2	702.83	1/2	342.16	1/2		1/2		1/2		1/2		1/2	
3/4	3/4	1,776.84	3/4	1,416.16	3/4	1,055.77	3/4	695.31	3/4	334.65	3/4		3/4		3/4		3/4		3/4	
1	1	1,769.32	9	1,408.65	9	1,048.27	9	687.80	9	327.14	9		9		9		9		9	
1/4	1/4	1,761.81	1/4	1,401.13	1/4	1,040.77	1/4	680.28	1/4	319.62	1/4		1/4		1/4		1/4		1/4	
1/2	1/2	1,754.29	1/2	1,393.62	1/2	1,033.27	1/2	672.77	1/2	312.11	1/2		1/2		1/2		1/2		1/2	
3/4	3/4	1,746.78	3/4	1,386.10	3/4	1,025.76	3/4	665.26	3/4	304.59	3/4		3/4		3/4		3/4		3/4	
1	1	1,739.27	10	1,378.59	10	1,018.26	10	657.74	10	297.08	10		10		10		10		10	
1/4	1/4	1,731.75	1/4	1,371.08	1/4	1,010.76	1/4	650.23	1/4	289.57	1/4		1/4		1/4		1/4		1/4	
1/2	1/2	1,724.24	1/2	1,363.56	1/2	1,003.26	1/2	642.72	1/2	282.05	1/2		1/2		1/2		1/2		1/2	
3/4	3/4	1,716.72	3/4	1,356.05	3/4	995.76	3/4	635.20	3/4	274.54	3/4		3/4		3/4		3/4		3/4	
1	1	1,709.21	11	1,348.53	11	988.26	11	627.69	11	267.03	11		11		11		11		11	
1/4	1/4	1,701.70	1/4	1,341.02	1/4	980.75	1/4	620.17	1/4	259.51	1/4		1/4		1/4		1/4		1/4	
1/2	1/2	1,694.18	1/2	1,333.50	1/2	973.25	1/2	612.66	1/2	252.00	1/2		1/2		1/2		1/2		1/2	
3/4	3/4	1,686.67	3/4	1,325.99	3/4	965.75	3/4	605.15	3/4	244.48	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW

**CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020**

PRECISION MEASUREMENT

& ANALYSIS, INC

P.O. Box 2092

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SHEET NO. 6 OF 12



BARGE "EMS 521"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												HULL # C-1248												GAUGE HEIGHT 15'-08"											
IN		0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.															
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0														
0																																			
1/4	5,176.50	1/4	4,863.00	1/4	4,531.73	1/4	4,186.45	1/4	3,828.48	1/4	3,467.08	1/4	3,105.68	1/4	2,744.28	1/4	2,382.78	1/4	2,021.28	1/4	1,660.28														
1/2	5,171.40	1/2	4,856.24	1/2	4,524.67	1/2	4,179.12	1/2	3,820.95	1/2	3,459.55	1/2	3,098.62	1/2	2,736.75	1/2	2,375.25	1/2	2,013.75	1/2	1,652.25														
3/4	5,166.29	3/4	4,849.49	3/4	4,517.61	3/4	4,171.78	3/4	3,813.42	3/4	3,452.02	3/4	3,090.62	3/4	2,729.22	3/4	2,367.72	3/4	2,006.22	3/4	1,644.72														
1	5,161.19	1	4,842.73	1	4,510.54	1	4,164.44	1	3,805.90	1	3,444.49	1	3,083.09	1	2,721.69	1	2,360.19	1	2,000.19	1	1,638.69														
1 1/4	5,154.88	1 1/4	4,835.95	1 1/4	4,503.46	1 1/4	4,157.08	1 1/4	3,798.37	1 1/4	3,436.96	1 1/4	3,075.56	1 1/4	2,714.16	1 1/4	2,352.66	1 1/4	1,991.16	1 1/4	1,629.66														
1 1/2	5,148.57	1 1/2	4,829.17	1 1/2	4,496.38	1 1/2	4,149.72	1 1/2	3,790.84	1 1/2	3,429.44	1 1/2	3,068.03	1 1/2	2,706.63	1 1/2	2,345.12	1 1/2	1,984.12	1 1/2	1,622.62														
3/4	5,142.25	3/4	4,822.39	3/4	4,493.29	3/4	4,142.36	3/4	3,783.31	3/4	3,421.91	3/4	3,060.50	3/4	2,699.10	3/4	2,337.59	3/4	1,976.09	3/4	1,614.59														
2	5,135.94	2	4,815.61	2	4,482.21	2	4,135.00	2	3,775.78	2	3,414.38	2	3,052.98	2	2,691.57	2	2,330.06	2	1,968.56	2	1,607.06														
1 1/4	5,128.77	1 1/4	4,808.81	1 1/4	4,475.10	1 1/4	4,127.62	1 1/4	3,768.25	1 1/4	3,406.85	1 1/4	3,045.45	1 1/4	2,684.04	1 1/4	2,322.53	1 1/4	1,961.03	1 1/4	1,600.03														
1 1/2	5,121.59	1 1/2	4,802.01	1 1/2	4,467.99	1 1/2	4,120.24	1 1/2	3,760.72	1 1/2	3,399.32	1 1/2	3,037.92	1 1/2	2,676.52	1 1/2	2,315.00	1 1/2	1,954.50	1 1/2	1,593.50														
3/4	5,114.42	3/4	4,795.21	3/4	4,460.89	3/4	4,112.86	3/4	3,753.19	3/4	3,391.79	3/4	3,030.39	3/4	2,668.99	3/4	2,307.47	3/4	1,947.47	3/4	1,586.47														
1	5,107.24	1	4,788.40	1	4,453.78	1	4,105.47	1	3,745.66	1	3,384.26	1	3,022.86	1	2,661.46	1	2,299.93	1	1,938.93	1	1,577.93														
1 1/4	5,100.76	1 1/4	4,781.58	1 1/4	4,446.65	1 1/4	4,098.07	1 1/4	3,738.13	1 1/4	3,376.73	1 1/4	3,015.33	1 1/4	2,653.93	1 1/4	2,292.40	1 1/4	1,931.40	1 1/4	1,570.40														
1 1/2	5,094.28	1 1/2	4,774.75	1 1/2	4,439.52	1 1/2	4,090.66	1 1/2	3,730.60	1 1/2	3,369.20	1 1/2	3,007.80	1 1/2	2,646.40	1 1/2	2,284.87	1 1/2	1,924.87	1 1/2	1,564.87														
3/4	5,087.80	3/4	4,767.93	3/4	4,432.39	3/4	4,083.26	3/4	3,723.07	3/4	3,361.67	3/4	3,000.27	3/4	2,638.87	3/4	2,277.34	3/4	1,917.34	3/4	1,557.34														
1	5,081.32	1	4,761.10	1	4,425.26	1	4,075.85	1	3,715.55	1	3,354.14	1	2,992.74	1	2,631.34	1	2,269.81	1	1,911.81	1	1,550.81														
1 1/4	5,074.82	1 1/4	4,754.25	1 1/4	4,418.11	1 1/4	4,068.42	1 1/4	3,708.02	1 1/4	3,346.61	1 1/4	2,985.21	1 1/4	2,623.81	1 1/4	2,262.27	1 1/4	1,901.27	1 1/4	1,540.27														
1 1/2	5,068.31	1 1/2	4,747.41	1 1/2	4,410.95	1 1/2	4,060.99	1 1/2	3,700.49	1 1/2	3,339.09	1 1/2	2,973.68	1 1/2	2,617.27	1 1/2	2,254.74	1 1/2	1,893.74	1 1/2	1,532.74														
3/4	5,061.81	3/4	4,740.56	3/4	4,403.80	3/4	4,053.56	3/4	3,692.96	3/4	3,331.56	3/4	2,970.15	3/4	2,608.74	3/4	2,247.21	3/4	1,886.21	3/4	1,525.21														
1	5,055.31	1	4,733.71	1	4,396.65	1	4,046.13	1	3,685.43	1	3,324.03	1	2,962.63	1	2,601.21	1	2,239.68	1	1,878.68	1	1,517.68														
1 1/4	5,048.78	1 1/4	4,726.84	1 1/4	4,389.47	1 1/4	4,038.68	1 1/4	3,677.90	1 1/4	3,316.50	1 1/4	2,955.10	1 1/4	2,593.68	1 1/4	2,232.15	1 1/4	1,871.15	1 1/4	1,510.15														
1 1/2	5,042.25	1 1/2	4,719.97	1 1/2	4,382.29	1 1/2	4,031.23	1 1/2	3,670.37	1 1/2	3,308.97	1 1/2	2,947.57	1 1/2	2,586.15	1 1/2	2,224.61	1 1/2	1,864.61	1 1/2	1,503.61														
3/4	5,035.73	3/4	4,713.09	3/4	4,375.12	3/4	4,023.78	3/4	3,662.84	3/4	3,301.44	3/4	2,940.04	3/4	2,578.62	3/4	2,217.08	3/4	1,857.08	3/4	1,501.08														
1	5,029.20	1	4,706.22	1	4,367.94	1	4,016.33	1	3,655.31	1	3,293.91	1	2,932.51	1	2,571.08	1	2,209.55	1	1,848.55	1	1,497.55														
1 1/4	5,022.65	1 1/4	4,699.33	1 1/4	4,360.74	1 1/4	4,008.85	1 1/4	3,647.78	1 1/4	3,286.38	1 1/4	2,924.98	1 1/4	2,563.55	1 1/4	2,202.02	1 1/4	1,841.02	1 1/4	1,489.02														
1 1/2	5,016.10	1 1/2	4,692.43	1 1/2	4,353.55	1 1/2	4,001.38	1 1/2	3,640.25	1 1/2	3,278.85	1 1/2	2,917.45	1 1/2	2,556.02	1 1/2	2,194.49	1 1/2	1,838.49	1 1/2	1,486.49														
3/4	5,009.55	3/4	4,685.53	3/4	4,346.35	3/4	3,993.90	3/4	3,632.72	3/4	3,271.32	3/4	2,909.92	3/4	2,548.49	3/4	2,186.95	3/4	1,830.95	3/4	1,484.95														
1	5,003.00	1	4,678.63	1	4,339.15	1	3,986.43	1	3,625.19	1	3,263.79	1	2,902.39	1	2,540.95	1	2,179.42	1	1,827.42	1	1,475.42														
1 1/4	4,996.43	1 1/4	4,671.69	1 1/4	4,331.93	1 1/4	3,978.93	1 1/4	3,617.67	1 1/4	3,256.26	1 1/4	2,894.86	1 1/4	2,533.42	1 1/4	2,171.89	1 1/4	1,819.89	1 1/4	1,471.89														
1 1/2	4,989.86	1 1/2	4,664.74	1 1/2	4,324.70	1 1/2	3,971.43	1 1/2	3,610.14	1 1/2	3,248.73	1 1/2	2,887.33	1 1/2	2,525.89	1 1/2	2,164.36	1 1/2	1,812.36	1 1/2	1,469.36														
3/4	4,983.29	3/4	4,657.79	3/4	4,317.48	3/4	3,963.94	3/4	3,602.61	3/4	3,241.21	3/4	2,879.80	3/4	2,518.36	3/4	2,156.83	3/4	1,806.83	3/4	1,463.83														
1	4,976.71	1	4,650.85	1	4,310.26	1	3,956.44	1	3,595.08	1	3,233.68	1	2,878.27	1	2,516.83	1	2,149.30	1	1,801.30	1	1,459.30														
1 1/4	4,970.11	1 1/4	4,643.88	1 1/4	4,303.01	1 1/4	3,948.92	1 1/4	3,587.55	1 1/4	3,226.15	1 1/4	2,864.75	1 1/4	2,503.29	1 1/4	2,141.76	1 1/4	1,799.76	1 1/4	1,453.76														
1 1/2	4,963.51	1 1/2	4,636.91	1 1/2	4,295.77	1 1/2	3,941.40	1 1/2	3,580.02	1 1/2	3,218.62	1 1/2	2,861.72	1 1/2	2,500.26	1 1/2	2,139.23	1 1/2	1,793.23	1 1/2	1,447.23														
3/4	4,956.90	3/4	4,629.94	3/4	4,286.52	3/4	3,933.88	3/4	3,572.49	3/4	3,211.09	3/4	2,849.69	3/4	2,488.23	3/4	2,126.70	3/4	1,786.70	3/4	1,441.70														
1	4,950.30	1	4,622.97	1	4,281.28	1	3,926.36	1	3,564.96	1	3,203.56	1	2,842.16	1	2,480.70	1	2,119.17	1	1,777.17	1	1,435.17														
1 1/4	4,943.61	1 1/4	4,615.98	1 1/4	4,274.01	1 1/4	3,918.83	1 1/4	3,557.43	1 1/4	3,196.03	1 1/4	2,834.63	1 1/4	2,473.17	1 1/4	2,111.64	1 1/4	1,769.64	1 1/4	1,431.64														
1 1/2	4,936.92	1 1/2	4,608.99	1 1/2	4,266.74	1 1/2	3,911.30	1 1/2	3,549.90	1 1/2	3,188.50	1 1/2	2,827.10	1 1/2	2,465.64	1 1/2	2,104.10	1 1/2	1,763.10	1 1/2	1,429.10														
3/4	4,930.23	3/4	4,601.99	3/4	4,259.48	3/4	3,903.78	3/4	3,542.37	3/4	3,180.97	3/4	2,819.57	3/4	2,458.10	3/4	2,096.57	3/4	1,757.57	3/4	1,426.57														
1	4,923.54	1	4,595.00	1	4,252.21	1	3,896.25	1	3,534.84	1	3,173.44	1	2,812.04	1	2,450.57	1	2,089.04	1	1,750.54	1	1,423.54														
1 1/4	4,916.83	1 1/4	4,587.99	1 1/4	4,244.92	1 1/4	3,888.72	1 1/4	3,527.32	1 1/4	3,160.91	1 1/4	2,804.51	1 1/4	2,443.04	1 1/4	2,081.51	1 1/4	1,745.01	1 1/4	1,420.01														
1 1/2	4,910.11	1 1/2	4,580.97	1 1/2	4,237.63	1 1/2	3,881.19	1 1/2	3,519.79	1 1/2	3,158.38	1 1/2	2,796.98	1 1/2	2,435.51	1 1/2	2,073.98	1 1/2	1,738.48	1 1/2	1,417.48														
3/4	4,903.40	3/4	4,573.96	3/4	4,230.34	3/4	3,873.66	3/4	3,512.26	3/4	3,150.86	3/4	2,789.45	3/4	2,427.98	3/4	2,066.44	3/4	1,731.944</																

BARGE "EMS 521"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08 1/4"

	0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	
1/4	4,397.88	1/4	4,237.32	1/4	4,058.85	1/4	3,878.89	1/4	3,683.09	1/4	3,481.97	1/4	3,273.93	1/4	3,063.92	1/4	2,853.97	1/4	2,643.92	1/4	2,433.97
1/2	4,396.23	1/2	4,233.70	1/2	4,056.06	1/2	3,870.96	1/2	3,679.05	1/2	3,466.44	1/2	3,258.98	1/2	3,048.42	1/2	2,838.96	1/2	2,628.94	1/2	2,418.97
3/4	4,394.58	3/4	4,230.08	3/4	4,052.28	3/4	3,867.02	3/4	3,658.97	3/4	3,458.97	3/4	3,247.04	3/4	3,036.58	3/4	2,826.12	3/4	2,615.66	3/4	2,405.71
1	4,392.92	1	4,226.45	1	4,048.49	1	3,863.09	1	3,670.98	1	3,457.50	1	3,247.04	1	3,036.58	1	2,826.12	1	2,615.66	1	2,405.71
1/4	4,391.27	1/4	4,222.83	1/4	4,044.71	1/4	3,859.16	1/4	3,666.94	1/4	3,444.04	1/4	3,234.00	1/4	3,023.96	1/4	2,813.92	1/4	2,603.88	1/4	2,393.93
1/2	4,388.40	1/2	4,219.19	1/2	4,040.91	1/2	3,855.21	1/2	3,662.90	1/2	3,436.57	1/2	3,226.53	1/2	3,016.48	1/2	2,806.04	1/2	2,595.59	1/2	2,385.60
3/4	4,385.53	3/4	4,215.56	3/4	4,037.11	3/4	3,851.26	3/4	3,658.87	3/4	3,429.10	3/4	3,218.64	3/4	3,008.59	3/4	2,798.13	3/4	2,587.68	3/4	2,374.65
2	4,382.66	2	4,211.92	2	4,033.31	2	3,847.32	2	3,654.83	2	3,421.64	2	3,211.94	2	3,001.91	2	2,791.44	2	2,580.97	2	2,369.70
1/4	4,379.79	1/4	4,208.29	1/4	4,029.51	1/4	3,843.37	1/4	3,650.80	1/4	3,414.17	1/4	3,204.13	1/4	3,000.59	1/4	2,790.14	1/4	2,579.69	1/4	2,359.75
1/2	4,376.00	1/2	4,204.64	1/2	4,025.70	1/2	3,839.42	1/2	3,646.76	1/2	3,406.70	1/2	3,196.66	1/2	2,992.22	1/2	2,781.78	1/2	2,569.82	1/2	2,348.80
3/4	4,372.22	3/4	4,200.99	3/4	4,021.89	3/4	3,835.46	3/4	3,643.32	3/4	3,399.24	3/4	3,189.20	3/4	2,984.76	3/4	2,774.82	3/4	2,558.94	3/4	2,337.86
3	4,368.43	3	4,197.34	3	4,018.08	3	3,831.50	3	3,638.69	3	3,391.77	3	3,181.73	3	2,976.33	3	2,766.39	3	2,549.94	3	2,327.91
1/4	4,364.65	1/4	4,193.69	1/4	4,014.27	1/4	3,827.54	1/4	3,634.65	1/4	3,384.30	1/4	3,174.26	1/4	2,969.82	1/4	2,759.88	1/4	2,540.94	1/4	2,316.96
1/2	4,361.17	1/2	4,190.03	1/2	4,010.45	1/2	3,823.57	1/2	3,630.61	1/2	3,376.87	1/2	3,166.83	1/2	2,962.39	1/2	2,752.45	1/2	2,539.99	1/2	2,305.99
3/4	4,357.70	3/4	4,186.37	3/4	4,006.63	3/4	3,819.60	3/4	3,626.58	3/4	3,369.37	3/4	3,159.33	3/4	2,954.89	3/4	2,744.95	3/4	2,529.01	3/4	2,292.03
4	4,354.23	4	4,182.71	4	4,002.81	4	3,815.63	4	3,622.54	4	3,361.90	4	3,149.46	4	2,944.51	4	2,734.57	4	2,519.63	4	2,280.06
1/4	4,350.75	1/4	4,179.05	1/4	3,998.98	1/4	3,811.66	1/4	3,618.50	1/4	3,354.43	1/4	3,144.39	1/4	2,939.95	1/4	2,730.01	1/4	2,510.07	1/4	2,269.10
1/2	4,347.26	1/2	4,175.38	1/2	3,995.15	1/2	3,807.68	1/2	3,614.97	1/2	3,349.58	1/2	3,139.54	1/2	2,935.10	1/2	2,725.16	1/2	2,505.16	1/2	2,258.13
3/4	4,343.78	3/4	4,171.71	3/4	3,991.31	3/4	3,803.70	3/4	3,610.43	3/4	3,339.51	3/4	3,129.47	3/4	2,924.53	3/4	2,714.59	3/4	2,500.19	3/4	2,247.16
5	4,340.29	5	4,168.03	5	3,987.48	5	3,799.71	5	3,606.39	5	3,332.04	5	3,121.99	5	2,916.94	5	2,711.99	5	2,501.99	5	2,242.06
1/4	4,336.81	1/4	4,164.36	1/4	3,983.64	1/4	3,795.73	1/4	3,602.36	1/4	3,324.58	1/4	3,114.53	1/4	2,909.48	1/4	2,704.53	1/4	2,494.58	1/4	2,237.13
1/2	4,333.31	1/2	4,160.68	1/2	3,979.80	1/2	3,791.74	1/2	3,598.32	1/2	3,317.12	1/2	3,107.07	1/2	2,901.92	1/2	2,696.87	1/2	2,491.92	1/2	2,232.18
3/4	4,329.81	3/4	4,156.99	3/4	3,975.95	3/4	3,787.74	3/4	3,594.29	3/4	3,309.67	3/4	3,099.62	3/4	2,894.57	3/4	2,689.52	3/4	2,484.47	3/4	2,227.23
6	4,326.31	6	4,153.31	6	3,972.10	6	3,783.75	6	3,590.25	6	3,302.22	6	3,092.17	6	2,887.12	6	2,682.07	6	2,477.02	6	2,222.28
1/4	4,322.81	1/4	4,149.62	1/4	3,968.26	1/4	3,779.75	1/4	3,586.21	1/4	3,294.77	1/4	3,084.72	1/4	2,879.67	1/4	2,674.62	1/4	2,469.57	1/4	2,217.33
1/2	4,319.59	1/2	4,145.92	1/2	3,964.40	1/2	3,775.74	1/2	3,582.18	1/2	3,287.32	1/2	3,077.27	1/2	2,872.22	1/2	2,667.17	1/2	2,462.12	1/2	2,212.38
3/4	4,315.70	3/4	4,142.22	3/4	3,960.54	3/4	3,771.74	3/4	3,578.14	3/4	3,279.87	3/4	3,070.82	3/4	2,865.77	3/4	2,660.72	3/4	2,455.67	3/4	2,207.43
7	4,312.28	7	4,138.52	7	3,956.68	7	3,767.73	7	3,574.10	7	3,272.42	7	3,063.37	7	2,858.32	7	2,653.27	7	2,448.22	7	2,193.27
1/4	4,308.77	1/4	4,134.82	1/4	3,952.82	1/4	3,763.72	1/4	3,570.07	1/4	3,264.97	1/4	3,054.92	1/4	2,849.87	1/4	2,644.82	1/4	2,439.77	1/4	2,184.82
1/2	4,305.24	1/2	4,131.10	1/2	3,948.95	1/2	3,759.70	1/2	3,566.03	1/2	3,257.51	1/2	3,047.46	1/2	2,842.41	1/2	2,637.36	1/2	2,432.31	1/2	2,179.87
3/4	4,301.72	3/4	4,127.38	3/4	3,945.07	3/4	3,755.68	3/4	3,561.99	3/4	3,250.06	3/4	3,039.01	3/4	2,833.96	3/4	2,628.91	3/4	2,423.86	3/4	2,174.92
8	4,298.19	8	4,123.65	8	3,941.20	8	3,751.66	8	3,557.96	8	3,242.61	8	3,032.56	8	2,827.51	8	2,622.46	8	2,417.41	8	2,169.92
1/4	4,294.67	1/4	4,119.93	1/4	3,937.33	1/4	3,747.64	1/4	3,553.92	1/4	3,235.16	1/4	3,025.11	1/4	2,820.06	1/4	2,615.01	1/4	2,410.96	1/4	2,163.47
1/2	4,291.13	1/2	4,116.19	1/2	3,933.45	1/2	3,743.61	1/2	3,549.89	1/2	3,227.71	1/2	3,017.66	1/2	2,812.61	1/2	2,607.56	1/2	2,402.51	1/2	2,158.98
3/4	4,287.59	3/4	4,112.45	3/4	3,929.56	3/4	3,739.58	3/4	3,545.85	3/4	3,220.26	3/4	3,010.21	3/4	2,805.16	3/4	2,599.11	3/4	2,394.06	3/4	2,154.03
9	4,284.05	9	4,108.72	9	3,925.68	9	3,735.55	9	3,541.81	9	3,212.81	9	3,002.76	9	2,797.71	9	2,592.66	9	2,387.61	9	2,149.08
1/4	4,280.51	1/4	4,104.98	1/4	3,921.79	1/4	3,731.52	1/4	3,537.78	1/4	3,205.36	1/4	2,995.31	1/4	2,785.26	1/4	2,580.21	1/4	2,375.16	1/4	2,144.11
1/2	4,276.92	1/2	4,101.23	1/2	3,917.90	1/2	3,727.49	1/2	3,533.74	1/2	3,197.91	1/2	2,987.86	1/2	2,777.81	1/2	2,572.76	1/2	2,367.71	1/2	2,139.16
3/4	4,273.34	3/4	4,097.48	3/4	3,914.00	3/4	3,723.45	3/4	3,529.45	3/4	3,194.30	3/4	2,984.25	3/4	2,774.20	3/4	2,569.15	3/4	2,364.10	3/4	2,134.11
10	4,269.75	10	4,093.74	10	3,910.10	10	3,719.41	10	3,525.67	10	3,183.00	10	2,972.95	10	2,762.90	10	2,557.85	10	2,352.80	10	2,129.11
1/4	4,266.16	1/4	4,089.99	1/4	3,906.21	1/4	3,715.38	1/4	3,521.63	1/4	3,175.55	1/4	2,965.50	1/4	2,755.45	1/4	2,550.40	1/4	2,345.35	1/4	2,124.12
1/2	4,262.56	1/2	4,086.23	1/2	3,902.30	1/2	3,711.34	1/2	3,517.17	1/2	3,168.10	1/2	2,962.05	1/2	2,751.99	1/2	2,546.94	1/2	2,341.89	1/2	2,119.13
3/4	4,258.96	3/4	4,082.46	3/4	3,898.39	3/4	3,707.30	3/4	3,512.70	3/4	3,160.64	3/4	2,955.59	3/4	2,745.54	3/4	2,540.49	3/4	2,335.44	3/4	2,114.14
11	4,255.37	11	4,078.70	11	3,894.48	11	3,703.27	11	3,508.23	11	3,153.19	11	2,948.14	11	2,738.09	11	2,533.04	11	2,327.99	11	2,109.14
1/4	4,251.77	1/4	4,074.94	1/4	3,890.57	1/4	3,699.23	1/4	3,503.77	1/4	3,145.73	1/4	2,940.68	1/4	2,735.63	1/4	2,530.58	1/4	2,325.53	1/4	2,104.15
1/2	4,248.16	1/2	4,071.17	1/2	3,886.65	1/2	3,695.20	1/2	3,496.30	1/2	3,138.24	1/2	2,933.19	1/2	2,728.14	1/2	2,523.09	1/2	2,318.04	1/2	2,099.10
3/4	4,244.54	3/4	4,067.40	3/4	3,882.73	3/4	3,691.16	3/4	3,488.84	3/4	3,130.76	3/4	2,925.71	3/4	2,720.66	3/4	2,515.61	3/4	2,310.56	3/4	2,094.11

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.

Gauge Point: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD



3 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

Gauge Height 15'-08 1/4"

	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN
0	2,043.99	^{1/4}	1,683.53	^{1/4}	1,323.87	^{1/4}	964.11	^{1/4}	604.12	^{1/4}	244.08	^{1/4}	0		0		0		0	
1/4	2,036.49	^{1/4}	1,676.43	^{1/4}	1,316.36	^{1/4}	956.62	^{1/4}	596.62	^{1/4}	236.58	^{1/4}	0		0		0		0	
1/2	2,028.99	^{1/2}	1,668.93	^{1/2}	1,308.86	^{1/2}	949.13	^{1/2}	589.12	^{1/2}	229.07	^{1/2}	0		0		0		0	
3/4	2,021.49	^{3/4}	1,661.42	^{3/4}	1,301.36	^{3/4}	941.63	^{3/4}	581.62	^{3/4}	221.57	^{3/4}	0		0		0		0	
1	2,013.98	¹	1,653.92	¹	1,293.86	¹	934.14	¹	574.12	¹	214.07	¹	0		0		0		0	
1/4	2,006.48	^{1/4}	1,646.42	^{1/4}	1,286.36	^{1/4}	926.65	^{1/4}	566.62	^{1/4}	206.57	^{1/4}	0		0		0		0	
1/2	1,998.98	^{1/2}	1,638.92	^{1/2}	1,278.86	^{1/2}	919.15	^{1/2}	559.12	^{1/2}	199.07	^{1/2}	0		0		0		0	
3/4	1,991.48	^{3/4}	1,631.42	^{3/4}	1,271.36	^{3/4}	911.66	^{3/4}	551.62	^{3/4}	191.57	^{3/4}	0		0		0		0	
2	1,983.98	²	1,623.92	²	1,263.85	²	904.16	²	544.12	²	184.07	²	0		0		0		0	
1/4	1,976.48	^{1/4}	1,616.42	^{1/4}	1,256.35	^{1/4}	896.66	^{1/4}	536.62	^{1/4}	176.57	^{1/4}	0		0		0		0	
1/2	1,968.98	^{1/2}	1,608.91	^{1/2}	1,248.85	^{1/2}	889.16	^{1/2}	529.11	^{1/2}	169.07	^{1/2}	0		0		0		0	
3/4	1,961.48	^{3/4}	1,601.41	^{3/4}	1,241.35	^{3/4}	881.66	^{3/4}	521.61	^{3/4}	161.57	^{3/4}	0		0		0		0	
3	1,953.97	³	1,593.91	³	1,233.85	³	874.16	³	514.11	³	154.06	³	0		0		0		0	
1/4	1,946.47	^{1/4}	1,586.41	^{1/4}	1,226.35	^{1/4}	866.66	^{1/4}	506.61	^{1/4}	146.56	^{1/4}	0		0		0		0	
1/2	1,938.97	^{1/2}	1,578.91	^{1/2}	1,218.85	^{1/2}	859.16	^{1/2}	499.11	^{1/2}	139.06	^{1/2}	0		0		0		0	
3/4	1,931.47	^{3/4}	1,571.41	^{3/4}	1,211.35	^{3/4}	851.66	^{3/4}	491.61	^{3/4}	131.56	^{3/4}	0		0		0		0	
4	1,923.97	⁴	1,563.91	⁴	1,203.86	⁴	844.16	⁴	484.11	⁴	124.06	⁴	0		0		0		0	
1/4	1,916.47	^{1/4}	1,556.41	^{1/4}	1,196.36	^{1/4}	836.66	^{1/4}	476.61	^{1/4}	116.56	^{1/4}	0		0		0		0	
1/2	1,908.97	^{1/2}	1,548.90	^{1/2}	1,188.87	^{1/2}	829.15	^{1/2}	469.11	^{1/2}	109.14	^{1/2}	0		0		0		0	
3/4	1,901.47	^{3/4}	1,541.40	^{3/4}	1,181.38	^{3/4}	821.65	^{3/4}	461.61	^{3/4}	101.71	^{3/4}	0		0		0		0	
5	1,893.96	⁵	1,533.90	⁵	1,173.88	⁵	814.15	⁵	454.10	⁵	94.29	⁵	0		0		0		0	
1/4	1,886.46	^{1/4}	1,526.40	^{1/4}	1,166.39	^{1/4}	806.65	^{1/4}	446.60	^{1/4}	86.87	^{1/4}	0		0		0		0	
1/2	1,878.96	^{1/2}	1,518.90	^{1/2}	1,158.90	^{1/2}	799.15	^{1/2}	439.10	^{1/2}	80.15	^{1/2}	0		0		0		0	
3/4	1,871.46	^{3/4}	1,511.40	^{3/4}	1,151.41	^{3/4}	791.65	^{3/4}	431.60	^{3/4}	73.43	^{3/4}	0		0		0		0	
6	1,863.96	⁶	1,503.90	⁶	1,143.92	⁶	784.15	⁶	424.10	⁶	66.71	⁶	0		0		0		0	
1/4	1,856.46	^{1/4}	1,496.40	^{1/4}	1,136.42	^{1/4}	776.65	^{1/4}	416.60	^{1/4}	59.99	^{1/4}	0		0		0		0	
1/2	1,848.96	^{1/2}	1,488.89	^{1/2}	1,128.93	^{1/2}	769.15	^{1/2}	409.10	^{1/2}	54.52	^{1/2}	0		0		0		0	
3/4	1,841.46	^{3/4}	1,481.39	^{3/4}	1,121.44	^{3/4}	761.65	^{3/4}	401.60	^{3/4}	49.05	^{3/4}	0		0		0		0	
7	1,833.95	⁷	1,473.89	⁷	1,113.95	⁷	754.14	⁷	394.10	⁷	43.58	⁷	0		0		0		0	
1/4	1,826.45	^{1/4}	1,466.39	^{1/4}	1,106.46	^{1/4}	746.64	^{1/4}	386.60	^{1/4}	38.11	^{1/4}	0		0		0		0	
1/2	1,818.95	^{1/2}	1,458.89	^{1/2}	1,098.97	^{1/2}	739.14	^{1/2}	379.09	^{1/2}	33.90	^{1/2}	0		0		0		0	
3/4	1,811.45	^{3/4}	1,451.39	^{3/4}	1,091.47	^{3/4}	731.64	^{3/4}	371.59	^{3/4}	29.68	^{3/4}	0		0		0		0	
8	1,803.95	⁸	1,443.89	⁸	1,083.98	⁸	724.14	⁸	364.09	⁸	25.46	⁸	0		0		0		0	
1/4	1,796.45	^{1/4}	1,436.38	^{1/4}	1,076.49	^{1/4}	716.64	^{1/4}	356.59	^{1/4}	21.24	^{1/4}	0		0		0		0	
1/2	1,788.95	^{1/2}	1,428.88	^{1/2}	1,069.00	^{1/2}	709.14	^{1/2}	349.09	^{1/2}	16.77	^{1/2}	0		0		0		0	
3/4	1,781.44	^{3/4}	1,421.38	^{3/4}	1,061.51	^{3/4}	701.64	^{3/4}	341.59	^{3/4}	12.50	^{3/4}	0		0		0		0	
9	1,773.94	⁹	1,413.88	⁹	1,054.01	⁹	694.14	⁹	334.09	⁹	8.23	⁹	0		0		0		0	
1/4	1,766.44	^{1/4}	1,406.38	^{1/4}	1,046.52	^{1/4}	686.64	^{1/4}	326.59	^{1/4}	3.76	^{1/4}	0		0		0		0	
1/2	1,758.94	^{1/2}	1,398.88	^{1/2}	1,039.03	^{1/2}	679.13	^{1/2}	319.09	^{1/2}	0	^{1/2}	0		0		0		0	
3/4	1,751.44	^{3/4}	1,391.38	^{3/4}	1,031.54	^{3/4}	671.63	^{3/4}	311.59	^{3/4}	0	^{3/4}	0		0		0		0	
10	1,743.94	¹⁰	1,383.88	¹⁰	1,024.05	¹⁰	664.13	¹⁰	304.08	¹⁰	0	¹⁰	0		0		0		0	
1/4	1,736.44	^{1/4}	1,376.37	^{1/4}	1,016.55	^{1/4}	656.63	^{1/4}	296.58	^{1/4}	0	^{1/4}	0		0		0		0	
1/2	1,728.94	^{1/2}	1,368.87	^{1/2}	1,009.06	^{1/2}	649.13	^{1/2}	289.08	^{1/2}	0	^{1/2}	0		0		0		0	
3/4	1,721.43	^{3/4}	1,361.37	^{3/4}	1,001.57	^{3/4}	641.63	^{3/4}	281.58	^{3/4}	0	^{3/4}	0		0		0		0	
11	1,713.93	¹¹	1,353.87	¹¹	994.08	¹¹	634.13	¹¹	274.08	¹¹	0	¹¹	0		0		0		0	
1/4	1,706.43	^{1/4}	1,346.37	^{1/4}	986.59	^{1/4}	626.63	^{1/4}	266.58	^{1/4}	0	^{1/4}	0		0		0		0	
1/2	1,698.93	^{1/2}	1,338.87	^{1/2}	979.09	^{1/2}	619.13	^{1/2}	259.08	^{1/2}	0	^{1/2}	0		0		0		0	
3/4	1,691.43	^{3/4}	1,331.37	^{3/4}	971.60	^{3/4}	611.63	^{3/4}	251.58	^{3/4}	0	^{3/4}	0		0		0		0	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS
CALCULATED: 02/11/2020 CL
PRINTED: 02/12/2020 SW

**CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020**

PRECISION MEASUREMENT

& ANALYSIS, INC

P.O. Box 2092

Pearland, Texas 77588

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SHEET NO. 10 OF 12



BARGE "EMS 521"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	4,213.44	1/4	4,217.03	1/4	4,217.03	1/4	4,037.20	1/4	3,857.35	1/4	3,668.80	1/4	3,468.83	1/4	3,111.75	1/4	2,753.59	1/4	2,394.61
1/2	4,209.85	1/2	4,209.85	1/2	4,209.85	1/2	4,033.44	1/2	3,849.55	1/2	3,658.77	1/2	3,453.94	1/2	3,096.82	1/2	2,738.63	1/2	2,379.65
3/4	4,365.92	3/4	4,206.26	3/4	4,029.69	3/4	3,845.65	3/4	3,654.75	3/4	3,465.74	3/4	3,270.15	3/4	2,973.15	3/4	2,675.15	3/4	2,377.15
1	4,364.28	1	4,202.65	1	4,025.33	1	3,841.73	1	3,650.74	1	3,460.74	1	3,269.74	1	2,972.74	1	2,675.74	1	2,377.74
1/4	4,362.65	1/4	4,199.05	1/4	4,022.16	1/4	3,837.82	1/4	3,646.72	1/4	3,455.72	1/4	3,264.72	1/4	2,969.72	1/4	2,674.72	1/4	2,376.72
1/2	4,361.01	1/2	4,195.44	1/2	4,018.55	1/2	3,833.90	1/2	3,642.70	1/2	3,451.70	1/2	3,260.70	1/2	2,965.70	1/2	2,670.70	1/2	2,375.70
3/4	4,359.38	3/4	4,191.84	3/4	4,014.93	3/4	3,829.99	3/4	3,638.79	3/4	3,447.79	3/4	3,256.79	3/4	2,961.79	3/4	2,666.79	3/4	2,374.79
2	4,356.53	2	4,188.22	2	4,010.85	2	3,826.06	2	3,634.86	2	3,443.86	2	3,252.86	2	2,957.86	2	2,662.86	2	2,373.86
1/4	4,353.67	1/4	4,184.61	1/4	4,007.07	1/4	3,822.14	1/4	3,630.94	1/4	3,439.94	1/4	3,248.94	1/4	2,953.94	1/4	2,658.94	1/4	2,372.94
1/2	4,350.82	1/2	4,180.99	1/2	4,003.29	1/2	3,818.21	1/2	3,627.01	1/2	3,436.01	1/2	3,245.01	1/2	2,950.01	1/2	2,655.01	1/2	2,372.01
3/4	4,347.97	3/4	4,177.37	3/4	3,999.51	3/4	3,814.28	3/4	3,623.08	3/4	3,431.88	3/4	3,240.88	3/4	2,945.88	3/4	2,650.88	3/4	2,371.88
3	4,344.20	3	4,173.74	3	3,995.72	3	3,810.34	3	3,618.60	3	3,426.60	3	3,234.60	3	2,942.60	3	2,647.60	3	2,370.60
1/4	4,340.44	1/4	4,170.11	1/4	3,991.93	1/4	3,806.41	1/4	3,614.58	1/4	3,422.58	1/4	3,230.58	1/4	2,938.58	1/4	2,643.58	1/4	2,369.58
1/2	4,336.67	1/2	4,166.48	1/2	3,988.14	1/2	3,802.47	1/2	3,610.56	1/2	3,418.56	1/2	3,226.56	1/2	2,934.56	1/2	2,639.56	1/2	2,368.56
3/4	4,332.90	3/4	4,162.86	3/4	3,984.35	3/4	3,798.53	3/4	3,606.55	3/4	3,414.55	3/4	3,222.55	3/4	2,930.55	3/4	2,635.55	3/4	2,367.55
4	4,329.45	4	4,159.21	4	3,980.34	4	3,794.58	4	3,602.53	4	3,410.53	4	3,218.53	4	2,926.53	4	2,633.53	4	2,366.53
1/4	4,325.99	1/4	4,155.57	1/4	3,976.74	1/4	3,790.62	1/4	3,598.51	1/4	3,406.51	1/4	3,214.51	1/4	2,922.51	1/4	2,629.51	1/4	2,365.51
1/2	4,322.54	1/2	4,151.93	1/2	3,972.94	1/2	3,786.67	1/2	3,594.50	1/2	3,402.50	1/2	3,210.50	1/2	2,918.50	1/2	2,627.50	1/2	2,364.50
3/4	4,319.08	3/4	4,148.29	3/4	3,969.13	3/4	3,782.72	3/4	3,590.48	3/4	3,398.48	3/4	3,206.48	3/4	2,914.48	3/4	2,623.48	3/4	2,363.48
5	4,315.61	5	4,144.64	5	3,965.32	5	3,778.76	5	3,586.46	5	3,394.46	5	3,202.46	5	2,910.46	5	2,621.46	5	2,362.46
1/4	4,312.15	1/4	4,140.98	1/4	3,961.50	1/4	3,774.80	1/4	3,582.44	1/4	3,390.44	1/4	3,198.44	1/4	2,906.44	1/4	2,618.44	1/4	2,361.44
1/2	4,308.68	1/2	4,137.33	1/2	3,957.68	1/2	3,770.83	1/2	3,578.43	1/2	3,386.43	1/2	3,194.43	1/2	2,902.43	1/2	2,614.43	1/2	2,359.43
3/4	4,305.21	3/4	4,133.67	3/4	3,953.84	3/4	3,766.87	3/4	3,574.41	3/4	3,382.41	3/4	3,190.41	3/4	2,898.41	3/4	2,610.41	3/4	2,358.41
6	4,301.73	6	4,130.01	6	3,950.04	6	3,762.89	6	3,570.39	6	3,378.39	6	3,186.39	6	2,894.39	6	2,606.39	6	2,357.39
1/4	4,298.25	1/4	4,126.34	1/4	3,946.21	1/4	3,758.92	1/4	3,566.37	1/4	3,374.37	1/4	3,182.37	1/4	2,890.37	1/4	2,602.37	1/4	2,356.37
1/2	4,294.77	1/2	4,122.68	1/2	3,942.38	1/2	3,754.94	1/2	3,562.36	1/2	3,369.36	1/2	3,177.36	1/2	2,886.36	1/2	2,599.36	1/2	2,355.36
3/4	4,291.29	3/4	4,119.01	3/4	3,938.56	3/4	3,750.97	3/4	3,558.34	3/4	3,365.34	3/4	3,173.34	3/4	2,882.34	3/4	2,595.34	3/4	2,354.34
7	4,287.80	7	4,115.33	7	3,934.72	7	3,746.98	7	3,554.32	7	3,361.32	7	3,169.32	7	2,878.32	7	2,591.32	7	2,353.32
1/4	4,284.31	1/4	4,111.65	1/4	3,930.88	1/4	3,742.99	1/4	3,550.31	1/4	3,357.31	1/4	3,165.31	1/4	2,874.31	1/4	2,587.31	1/4	2,352.31
1/2	4,280.81	1/2	4,107.97	1/2	3,927.03	1/2	3,739.00	1/2	3,546.29	1/2	3,353.29	1/2	3,161.29	1/2	2,870.29	1/2	2,583.29	1/2	2,351.29
3/4	4,277.32	3/4	4,104.29	3/4	3,923.13	3/4	3,735.01	3/4	3,542.27	3/4	3,349.27	3/4	3,157.27	3/4	2,866.27	3/4	2,580.27	3/4	2,350.27
8	4,273.82	8	4,100.58	8	3,919.34	8	3,731.01	8	3,538.25	8	3,345.25	8	3,153.25	8	2,862.25	8	2,576.25	8	2,349.25
1/4	4,270.31	1/4	4,096.88	1/4	3,915.49	1/4	3,727.01	1/4	3,534.24	1/4	3,341.24	1/4	3,149.24	1/4	2,858.24	1/4	2,573.24	1/4	2,348.24
1/2	4,266.81	1/2	4,093.17	1/2	3,911.64	1/2	3,723.02	1/2	3,530.22	1/2	3,337.22	1/2	3,145.22	1/2	2,854.22	1/2	2,569.22	1/2	2,347.22
3/4	4,263.30	3/4	4,089.47	3/4	3,907.78	3/4	3,719.01	3/4	3,526.20	3/4	3,333.20	3/4	3,141.20	3/4	2,850.20	3/4	2,565.20	3/4	2,346.20
9	4,259.78	9	4,085.75	9	3,903.92	9	3,715.00	9	3,522.19	9	3,329.19	9	3,137.19	9	2,846.19	9	2,561.19	9	2,345.19
1/4	4,256.26	1/4	4,082.03	1/4	3,900.05	1/4	3,710.99	1/4	3,518.17	1/4	3,325.17	1/4	3,133.17	1/4	2,842.17	1/4	2,557.17	1/4	2,344.17
1/2	4,252.74	1/2	4,078.39	1/2	3,896.19	1/2	3,706.97	1/2	3,514.15	1/2	3,321.15	1/2	3,129.15	1/2	2,838.15	1/2	2,554.15	1/2	2,343.15
3/4	4,249.22	3/4	4,074.60	3/4	3,892.32	3/4	3,702.96	3/4	3,510.13	3/4	3,317.13	3/4	3,125.13	3/4	2,834.13	3/4	2,551.13	3/4	2,342.13
10	4,245.65	10	4,070.87	10	3,888.44	10	3,698.94	10	3,506.12	10	3,313.12	10	3,121.12	10	2,830.12	10	2,548.12	10	2,341.12
1/4	4,242.08	1/4	4,067.14	1/4	3,884.57	1/4	3,694.93	1/4	3,502.10	1/4	3,309.10	1/4	3,117.10	1/4	2,826.10	1/4	2,545.10	1/4	2,340.10
1/2	4,238.51	1/2	4,063.41	1/2	3,880.69	1/2	3,690.91	1/2	3,498.08	1/2	3,305.08	1/2	3,113.08	1/2	2,822.08	1/2	2,541.08	1/2	2,339.08
3/4	4,234.95	3/4	4,059.68	3/4	3,876.81	3/4	3,686.89	3/4	3,494.07	3/4	3,301.07	3/4	3,109.07	3/4	2,818.07	3/4	2,538.07	3/4	2,338.07
11	4,231.37	11	4,055.94	11	3,872.92	11	3,682.87	11	3,489.62	11	3,296.62	11	3,104.62	11	2,814.62	11	2,534.62	11	2,337.62
1/4	4,227.79	1/4	4,052.20	1/4	3,869.03	1/4	3,678.86	1/4	3,485.17	1/4	3,292.17	1/4	3,100.17	1/4	2,810.17	1/4	2,532.17	1/4	2,336.17
1/2	4,224.21	1/2	4,048.45	1/2	3,865.14	1/2	3,674.84	1/2	3,480.73	1/2	3,288.73	1/2	3,096.73	1/2	2,806.73	1/2	2,528.73	1/2	2,335.73
3/4	4,220.63	3/4	4,044.71	3/4	3,861.25	3/4	3,670.82	3/4	3,476.28	3/4	3,284.28	3/4	3,092.28	3/4	2,802.28	3/4	2,524.28	3/4	2,334.28

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 LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 521"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1248

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,035.61	0	1,676.52	0	1,318.76	0	969.71	0	617.69	0	258.50	0		0		0		0	
1/4	2,028.13	1/4	1,669.04	1/4	1,311.34	1/4	962.57	1/4	610.20	1/4	251.01	1/4		1/4		1/4		1/4	
1/2	2,020.65	1/2	1,661.56	1/2	1,303.92	1/2	955.42	1/2	602.72	1/2	243.53	1/2		1/2		1/2		1/2	
3/4	2,013.17	3/4	1,654.08	3/4	1,296.50	3/4	948.28	3/4	595.24	3/4	236.05	3/4		3/4		3/4		3/4	
1	2,005.69	1	1,646.60	1	1,289.08	1	941.13	1	587.75	1	228.56	1		1		1		1	
1/4	1,998.20	1/4	1,639.12	1/4	1,281.66	1/4	933.98	1/4	580.27	1/4	221.08	1/4		1/4		1/4		1/4	
1/2	1,990.72	1/2	1,631.64	1/2	1,274.24	1/2	926.84	1/2	572.79	1/2	213.60	1/2		1/2		1/2		1/2	
3/4	1,983.24	3/4	1,624.15	3/4	1,266.82	3/4	919.69	3/4	565.30	3/4	206.12	3/4		3/4		3/4		3/4	
2	1,975.76	2	1,616.67	2	1,259.41	2	912.54	2	557.82	2	198.63	2		2		2		2	
1/4	1,968.28	1/4	1,609.19	1/4	1,251.99	1/4	905.39	1/4	550.34	1/4	191.15	1/4		1/4		1/4		1/4	
1/2	1,960.80	1/2	1,601.71	1/2	1,244.57	1/2	898.24	1/2	542.86	1/2	183.67	1/2		1/2		1/2		1/2	
3/4	1,953.32	3/4	1,594.23	3/4	1,237.16	3/4	891.09	3/4	535.37	3/4	176.18	3/4		3/4		3/4		3/4	
3	1,945.84	3	1,586.75	3	1,229.75	3	883.91	3	527.89	3	168.70	3		3		3		3	
1/4	1,938.36	1/4	1,579.27	1/4	1,222.35	1/4	876.74	1/4	520.41	1/4	161.22	1/4		1/4		1/4		1/4	
1/2	1,930.88	1/2	1,571.79	1/2	1,214.95	1/2	869.57	1/2	512.92	1/2	153.73	1/2		1/2		1/2		1/2	
3/4	1,923.39	3/4	1,564.31	3/4	1,207.55	3/4	862.40	3/4	505.44	3/4	146.25	3/4		3/4		3/4		3/4	
4	1,915.91	4	1,556.83	4	1,200.14	4	855.23	4	497.96	4	138.76	4		4		4		4	
1/4	1,908.43	1/4	1,549.34	1/4	1,192.74	1/4	848.05	1/4	490.47	1/4	131.27	1/4		1/4		1/4		1/4	
1/2	1,900.95	1/2	1,541.86	1/2	1,185.33	1/2	840.88	1/2	482.99	1/2	123.78	1/2		1/2		1/2		1/2	
3/4	1,893.47	3/4	1,534.38	3/4	1,177.93	3/4	833.70	3/4	475.51	3/4	116.30	3/4		3/4		3/4		3/4	
5	1,885.99	5	1,526.90	5	1,170.54	5	826.47	5	468.02	5	108.89	5		5		5		5	
1/4	1,878.51	1/4	1,519.42	1/4	1,163.14	1/4	819.23	1/4	460.54	1/4	101.49	1/4		1/4		1/4		1/4	
1/2	1,871.03	1/2	1,511.94	1/2	1,155.75	1/2	812.00	1/2	453.06	1/2	94.08	1/2		1/2		1/2		1/2	
3/4	1,863.55	3/4	1,504.46	3/4	1,148.36	3/4	804.76	3/4	445.57	3/4	86.68	3/4		3/4		3/4		3/4	
6	1,856.07	6	1,496.99	6	1,141.21	6	797.28	6	438.09	6	79.98	6		6		6		6	
1/4	1,848.58	1/4	1,489.51	1/4	1,134.06	1/4	789.80	1/4	430.61	1/4	73.29	1/4		1/4		1/4		1/4	
1/2	1,841.10	1/2	1,482.04	1/2	1,126.92	1/2	782.31	1/2	423.13	1/2	66.60	1/2		1/2		1/2		1/2	
3/4	1,833.62	3/4	1,474.57	3/4	1,119.77	3/4	774.83	3/4	415.64	3/4	59.90	3/4		3/4		3/4		3/4	
7	1,826.14	7	1,467.15	7	1,112.63	7	767.35	7	408.16	7	54.45	7		7		7		7	
1/4	1,818.66	1/4	1,459.73	1/4	1,105.48	1/4	759.86	1/4	400.68	1/4	49.00	1/4		1/4		1/4		1/4	
1/2	1,811.18	1/2	1,452.31	1/2	1,098.34	1/2	752.38	1/2	393.19	1/2	43.54	1/2		1/2		1/2		1/2	
3/4	1,803.70	3/4	1,444.89	3/4	1,091.19	3/4	744.90	3/4	385.71	3/4	38.09	3/4		3/4		3/4		3/4	
8	1,796.22	8	1,437.47	8	1,084.04	8	737.42	8	378.23	8	33.87	8		8		8		8	
1/4	1,788.74	1/4	1,430.05	1/4	1,076.90	1/4	729.93	1/4	370.74	1/4	29.66	1/4		1/4		1/4		1/4	
1/2	1,781.26	1/2	1,422.63	1/2	1,069.75	1/2	722.45	1/2	363.26	1/2	25.44	1/2		1/2		1/2		1/2	
3/4	1,773.77	3/4	1,415.21	3/4	1,062.61	3/4	714.97	3/4	355.78	3/4	21.22	3/4		3/4		3/4		3/4	
9	1,766.29	9	1,407.79	9	1,055.46	9	707.48	9	348.29	9		9		9		9		9	
1/4	1,758.81	1/4	1,400.37	1/4	1,048.32	1/4	700.00	1/4	340.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,751.33	1/2	1,392.95	1/2	1,041.17	1/2	692.52	1/2	333.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.85	3/4	1,385.53	3/4	1,034.02	3/4	685.03	3/4	325.85	3/4		3/4		3/4		3/4		3/4	
10	1,736.37	10	1,378.11	10	1,026.88	10	677.55	10	318.36	10		10		10		10		10	
1/4	1,728.89	1/4	1,370.70	1/4	1,019.73	1/4	670.07	1/4	310.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.41	1/2	1,363.28	1/2	1,012.59	1/2	662.58	1/2	303.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.93	3/4	1,355.86	3/4	1,005.44	3/4	655.10	3/4	295.91	3/4		3/4		3/4		3/4		3/4	
11	1,706.45	11	1,348.44	11	998.30	11	647.62	11	288.43	11		11		11		11		11	
1/4	1,698.96	1/4	1,341.02	1/4	991.15	1/4	640.14	1/4	280.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,691.48	1/2	1,333.60	1/2	984.00	1/2	632.65	1/2	273.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.00	3/4	1,326.18	3/4	976.86	3/4	625.17	3/4	265.98	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/10/2020 JS

CALCULATED: 02/11/2020 CL

PRINTED: 02/12/2020 SW

CANCELS AND SUPERCEDES

ALL PRIOR TO 02/2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pimacorp.net>