



BARGE "EMS 3011"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/8	01-1/8
1 STBD	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/8	01-1/8
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 PORT	- 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	- 00-3/8	00-3/8
3 STBD	- 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	- 00-3/8	00-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 245'-06"

April 23, 2014

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3011"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,663.70	0	4,031.75	0	4,399.79	0	4,765.74	0		0		0		0		0		0	
1/4	3,671.37	1/4	4,039.42	1/4	4,407.41	1/4	4,773.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,679.04	1/2	4,047.09	1/2	4,415.04	1/2	4,780.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,686.71	3/4	4,054.76	3/4	4,422.66	3/4	4,788.60	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,694.37	1	4,062.42	1	4,430.29	1	4,796.23	1		1		1		1		1		1	
1/4	3,702.04	1/4	4,070.09	1/4	4,437.91	1/4	4,803.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.71	1/2	4,077.76	1/2	4,445.53	1/2	4,811.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.38	3/4	4,085.43	3/4	4,453.16	3/4	4,819.06	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,725.05	2	4,093.09	2	4,460.78	2	4,826.67	2		2		2		2		2		2	
1/4	3,732.71	1/4	4,100.76	1/4	4,468.41	1/4	4,834.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.38	1/2	4,108.43	1/2	4,476.03	1/2	4,841.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.05	3/4	4,116.10	3/4	4,483.65	3/4	4,849.07	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,755.72	3	4,123.77	3	4,491.28	3	4,856.54	3		3		3		3		3		3	
1/4	3,763.38	1/4	4,131.43	1/4	4,498.90	1/4	4,863.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.05	1/2	4,139.10	1/2	4,506.53	1/2	4,869.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,778.72	3/4	4,146.77	3/4	4,514.15	3/4	4,876.37	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,786.39	4	4,154.44	4	4,521.77	4	4,882.99	4		4		4		4		4		4	
1/4	3,794.05	1/4	4,162.10	1/4	4,529.40	1/4	4,887.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,801.72	1/2	4,169.77	1/2	4,537.02	1/2	4,892.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.39	3/4	4,177.44	3/4	4,544.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,817.06	5	4,185.11	5	4,552.27	5		5		5		5		5		5		5	
1/4	3,824.73	1/4	4,192.77	1/4	4,559.89	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,832.39	1/2	4,200.44	1/2	4,567.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,840.06	3/4	4,208.11	3/4	4,575.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,847.73	6	4,215.78	6	4,582.76	6		6		6		6		6		6		6	
1/4	3,855.40	1/4	4,223.44	1/4	4,590.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.06	1/2	4,231.11	1/2	4,598.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,870.73	3/4	4,238.78	3/4	4,605.64	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,878.40	7	4,246.45	7	4,613.26	7		7		7		7		7		7		7	
1/4	3,886.07	1/4	4,254.12	1/4	4,620.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,893.73	1/2	4,261.79	1/2	4,628.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.40	3/4	4,269.46	3/4	4,636.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,909.07	8	4,277.13	8	4,643.76	8		8		8		8		8		8		8	
1/4	3,916.74	1/4	4,284.80	1/4	4,651.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,924.41	1/2	4,292.47	1/2	4,659.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,932.07	3/4	4,300.14	3/4	4,666.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,939.74	9	4,307.81	9	4,674.25	9		9		9		9		9		9		9	
1/4	3,947.41	1/4	4,315.48	1/4	4,681.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.08	1/2	4,323.14	1/2	4,689.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,962.74	3/4	4,330.81	3/4	4,697.12	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,970.41	10	4,338.48	10	4,704.75	10		10		10		10		10		10		10	
1/4	3,978.08	1/4	4,346.15	1/4	4,712.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,985.75	1/2	4,353.82	1/2	4,719.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,993.41	3/4	4,361.49	3/4	4,727.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,001.08	11	4,369.16	11	4,735.24	11		11		11		11		11		11		11	
1/4	4,008.75	1/4	4,376.82	1/4	4,742.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,016.42	1/2	4,384.48	1/2	4,750.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,024.09	3/4	4,392.13	3/4	4,758.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
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BARGE "EMS 3011"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 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	3,664.32	0	4,032.33	0	4,400.32	0	4,766.22	0		0		0		0		0		0	
1/4	3,671.99	1/4	4,039.99	1/4	4,407.94	1/4	4,773.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,679.65	1/2	4,047.66	1/2	4,415.57	1/2	4,781.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,687.32	3/4	4,055.33	3/4	4,423.19	3/4	4,789.09	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,694.99	1	4,062.99	1	4,430.81	1	4,796.71	1		1		1		1		1		1	
1/4	3,702.65	1/4	4,070.66	1/4	4,438.44	1/4	4,804.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.32	1/2	4,078.33	1/2	4,446.06	1/2	4,811.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.99	3/4	4,085.99	3/4	4,453.68	3/4	4,819.54	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,725.65	2	4,093.66	2	4,461.30	2	4,827.15	2		2		2		2		2		2	
1/4	3,733.32	1/4	4,101.33	1/4	4,468.93	1/4	4,834.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.99	1/2	4,108.99	1/2	4,476.55	1/2	4,842.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.65	3/4	4,116.66	3/4	4,484.17	3/4	4,849.55	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,756.32	3	4,124.33	3	4,491.80	3	4,857.01	3		3		3		3		3		3	
1/4	3,763.99	1/4	4,131.99	1/4	4,499.42	1/4	4,863.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.65	1/2	4,139.66	1/2	4,507.04	1/2	4,870.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,779.32	3/4	4,147.33	3/4	4,514.67	3/4	4,876.84	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,786.99	4	4,154.99	4	4,522.29	4	4,883.45	4		4		4		4		4		4	
1/4	3,794.66	1/4	4,162.66	1/4	4,529.91	1/4	4,888.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,802.32	1/2	4,170.33	1/2	4,537.53	1/2	4,892.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,809.99	3/4	4,178.00	3/4	4,545.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,817.66	5	4,185.66	5	4,552.78	5		5		5		5		5		5		5	
1/4	3,825.32	1/4	4,193.33	1/4	4,560.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,832.99	1/2	4,200.99	1/2	4,568.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,840.66	3/4	4,208.66	3/4	4,575.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,848.32	6	4,216.33	6	4,583.27	6		6		6		6		6		6		6	
1/4	3,855.99	1/4	4,223.99	1/4	4,590.90	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.66	1/2	4,231.66	1/2	4,598.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,871.32	3/4	4,239.33	3/4	4,606.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,878.99	7	4,247.00	7	4,613.76	7		7		7		7		7		7		7	
1/4	3,886.66	1/4	4,254.67	1/4	4,621.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,894.32	1/2	4,262.34	1/2	4,629.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,901.99	3/4	4,270.00	3/4	4,636.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,909.66	8	4,277.67	8	4,644.26	8		8		8		8		8		8		8	
1/4	3,917.32	1/4	4,285.34	1/4	4,651.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,924.99	1/2	4,293.01	1/2	4,659.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,932.66	3/4	4,300.68	3/4	4,667.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,940.32	9	4,308.35	9	4,674.75	9		9		9		9		9		9		9	
1/4	3,947.99	1/4	4,316.01	1/4	4,682.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,955.66	1/2	4,323.68	1/2	4,689.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,963.32	3/4	4,331.35	3/4	4,697.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,970.99	10	4,339.02	10	4,705.24	10		10		10		10		10		10		10	
1/4	3,978.66	1/4	4,346.69	1/4	4,712.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,986.33	1/2	4,354.36	1/2	4,720.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,993.99	3/4	4,362.02	3/4	4,728.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,001.66	11	4,369.69	11	4,735.73	11		11		11		11		11		11		11	
1/4	4,009.33	1/4	4,377.35	1/4	4,743.36	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,016.99	1/2	4,385.01	1/2	4,750.98	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,024.66	3/4	4,392.66	3/4	4,758.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3011"

2 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

Table with columns for IN and depth (0 FT. to 9 FT.) and rows for gauge height (0 to 11). Contains numerical capacity values.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK. CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE. GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 47'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

Signature: Russ Adams



BARGE "EMS 3011"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,680.16	0	4,049.95	0	4,419.73	0	4,787.41	0		0		0		0		0		0	
1/4	3,687.87	1/4	4,057.65	1/4	4,427.39	1/4	4,795.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.57	1/2	4,065.36	1/2	4,435.05	1/2	4,802.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,703.28	3/4	4,073.06	3/4	4,442.71	3/4	4,810.39	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,710.98	1	4,080.77	1	4,450.37	1	4,818.05	1		1		1		1		1		1	
1/4	3,718.68	1/4	4,088.47	1/4	4,458.03	1/4	4,825.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.39	1/2	4,096.17	1/2	4,465.69	1/2	4,833.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,734.09	3/4	4,103.88	3/4	4,473.35	3/4	4,840.99	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,741.79	2	4,111.58	2	4,481.01	2	4,848.64	2		2		2		2		2		2	
1/4	3,749.50	1/4	4,119.29	1/4	4,488.67	1/4	4,856.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,757.20	1/2	4,126.99	1/2	4,496.33	1/2	4,863.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,764.91	3/4	4,134.69	3/4	4,503.99	3/4	4,871.15	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,772.61	3	4,142.40	3	4,511.65	3	4,878.65	3		3		3		3		3		3	
1/4	3,780.31	1/4	4,150.10	1/4	4,519.31	1/4	4,885.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,788.02	1/2	4,157.81	1/2	4,526.97	1/2	4,891.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,795.72	3/4	4,165.51	3/4	4,534.63	3/4	4,898.58	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,803.43	4	4,173.21	4	4,542.29	4	4,905.22	4		4		4		4		4		4	
1/4	3,811.13	1/4	4,180.92	1/4	4,549.95	1/4	4,909.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.83	1/2	4,188.62	1/2	4,557.61	1/2	4,914.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,826.54	3/4	4,196.32	3/4	4,565.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,834.24	5	4,204.03	5	4,572.93	5		5		5		5		5		5		5	
1/4	3,841.95	1/4	4,211.73	1/4	4,580.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,849.65	1/2	4,219.44	1/2	4,588.25	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,857.35	3/4	4,227.14	3/4	4,595.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,865.06	6	4,234.84	6	4,603.57	6		6		6		6		6		6		6	
1/4	3,872.76	1/4	4,242.55	1/4	4,611.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,880.46	1/2	4,250.25	1/2	4,618.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.17	3/4	4,257.96	3/4	4,626.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,895.87	7	4,265.66	7	4,634.21	7		7		7		7		7		7		7	
1/4	3,903.58	1/4	4,273.37	1/4	4,641.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,911.28	1/2	4,281.07	1/2	4,649.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,918.98	3/4	4,288.78	3/4	4,657.19	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,926.69	8	4,296.49	8	4,664.85	8		8		8		8		8		8		8	
1/4	3,934.39	1/4	4,304.19	1/4	4,672.51	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,942.10	1/2	4,311.90	1/2	4,680.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.80	3/4	4,319.60	3/4	4,687.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,957.50	9	4,327.31	9	4,695.49	9		9		9		9		9		9		9	
1/4	3,965.21	1/4	4,335.01	1/4	4,703.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,972.91	1/2	4,342.72	1/2	4,710.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,980.62	3/4	4,350.42	3/4	4,718.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,988.32	10	4,358.13	10	4,726.13	10		10		10		10		10		10		10	
1/4	3,996.02	1/4	4,365.83	1/4	4,733.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,003.73	1/2	4,373.54	1/2	4,741.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,011.43	3/4	4,381.24	3/4	4,749.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,019.14	11	4,388.95	11	4,756.77	11		11		11		11		11		11		11	
1/4	4,026.84	1/4	4,396.64	1/4	4,764.43	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,034.54	1/2	4,404.34	1/2	4,772.09	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,042.25	3/4	4,412.03	3/4	4,779.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3011"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 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	3,682.16	0	4,051.95	0	4,421.73	0	4,789.41	0		0		0		0		0		0	
1/4	3,689.87	1/4	4,059.65	1/4	4,429.39	1/4	4,797.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.57	1/2	4,067.36	1/2	4,437.05	1/2	4,804.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,705.28	3/4	4,075.06	3/4	4,444.71	3/4	4,812.39	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,712.98	1	4,082.77	1	4,452.37	1	4,820.05	1		1		1		1		1		1	
1/4	3,720.68	1/4	4,090.47	1/4	4,460.03	1/4	4,827.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,728.39	1/2	4,098.17	1/2	4,467.69	1/2	4,835.34	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,736.09	3/4	4,105.88	3/4	4,475.35	3/4	4,842.99	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,743.79	2	4,113.58	2	4,483.01	2	4,850.64	2		2		2		2		2		2	
1/4	3,751.50	1/4	4,121.29	1/4	4,490.67	1/4	4,858.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,759.20	1/2	4,128.99	1/2	4,498.33	1/2	4,865.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,766.91	3/4	4,136.69	3/4	4,505.99	3/4	4,873.15	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,774.61	3	4,144.40	3	4,513.65	3	4,880.65	3		3		3		3		3		3	
1/4	3,782.31	1/4	4,152.10	1/4	4,521.31	1/4	4,887.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,790.02	1/2	4,159.81	1/2	4,528.97	1/2	4,893.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,797.72	3/4	4,167.51	3/4	4,536.63	3/4	4,900.58	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,805.43	4	4,175.21	4	4,544.29	4	4,907.22	4		4		4		4		4		4	
1/4	3,813.13	1/4	4,182.92	1/4	4,551.95	1/4	4,911.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,820.83	1/2	4,190.62	1/2	4,559.61	1/2	4,916.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,828.54	3/4	4,198.32	3/4	4,567.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,836.24	5	4,206.03	5	4,574.93	5		5		5		5		5		5		5	
1/4	3,843.95	1/4	4,213.73	1/4	4,582.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,851.65	1/2	4,221.44	1/2	4,590.25	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,859.35	3/4	4,229.14	3/4	4,597.91	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,867.06	6	4,236.84	6	4,605.57	6		6		6		6		6		6		6	
1/4	3,874.76	1/4	4,244.55	1/4	4,613.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.46	1/2	4,252.25	1/2	4,620.89	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.17	3/4	4,259.96	3/4	4,628.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,897.87	7	4,267.66	7	4,636.21	7		7		7		7		7		7		7	
1/4	3,905.58	1/4	4,275.37	1/4	4,643.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,913.28	1/2	4,283.07	1/2	4,651.53	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,920.98	3/4	4,290.78	3/4	4,659.19	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,928.69	8	4,298.48	8	4,666.85	8		8		8		8		8		8		8	
1/4	3,936.39	1/4	4,306.19	1/4	4,674.51	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.10	1/2	4,313.90	1/2	4,682.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,951.80	3/4	4,321.60	3/4	4,689.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,959.50	9	4,329.31	9	4,697.49	9		9		9		9		9		9		9	
1/4	3,967.21	1/4	4,337.01	1/4	4,705.15	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.91	1/2	4,344.72	1/2	4,712.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.62	3/4	4,352.42	3/4	4,720.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,990.32	10	4,360.13	10	4,728.13	10		10		10		10		10		10		10	
1/4	3,998.02	1/4	4,367.83	1/4	4,735.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,005.73	1/2	4,375.54	1/2	4,743.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,013.43	3/4	4,383.24	3/4	4,751.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,021.14	11	4,390.95	11	4,758.77	11		11		11		11		11		11		11	
1/4	4,028.84	1/4	4,398.64	1/4	4,766.43	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036.54	1/2	4,406.34	1/2	4,774.09	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,044.25	3/4	4,414.03	3/4	4,781.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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



BARGE "EMS 3011"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,056.39	0	3,228.83	0	3,401.27	0	3,572.41	0		0		0		0		0		0	
1/4	3,059.99	1/4	3,232.43	1/4	3,404.84	1/4	3,575.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,063.58	1/2	3,236.02	1/2	3,408.42	1/2	3,579.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,067.17	3/4	3,239.61	3/4	3,411.99	3/4	3,583.03	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,070.76	1	3,243.20	1	3,415.56	1	3,586.57	1		1		1		1		1		1	
1/4	3,074.36	1/4	3,246.80	1/4	3,419.14	1/4	3,590.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,077.95	1/2	3,250.39	1/2	3,422.71	1/2	3,593.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,081.54	3/4	3,253.98	3/4	3,426.29	3/4	3,597.16	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,085.13	2	3,257.57	2	3,429.86	2	3,600.69	2		2		2		2		2		2	
1/4	3,088.73	1/4	3,261.17	1/4	3,433.44	1/4	3,604.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,092.32	1/2	3,264.76	1/2	3,437.01	1/2	3,607.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,095.91	3/4	3,268.35	3/4	3,440.58	3/4	3,610.91	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,099.50	3	3,271.94	3	3,444.16	3	3,614.32	3		3		3		3		3		3	
1/4	3,103.10	1/4	3,275.54	1/4	3,447.73	1/4	3,617.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,106.69	1/2	3,279.13	1/2	3,451.31	1/2	3,619.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,110.28	3/4	3,282.72	3/4	3,454.88	3/4	3,622.35	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,113.87	4	3,286.31	4	3,458.45	4	3,625.03	4		4		4		4		4		4	
1/4	3,117.47	1/4	3,289.91	1/4	3,462.03	1/4	3,626.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,121.06	1/2	3,293.50	1/2	3,465.60	1/2	3,627.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,124.65	3/4	3,297.09	3/4	3,469.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,128.24	5	3,300.68	5	3,472.75	5		5		5		5		5		5		5	
1/4	3,131.84	1/4	3,304.27	1/4	3,476.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,135.43	1/2	3,307.87	1/2	3,479.90	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,139.02	3/4	3,311.46	3/4	3,483.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,142.61	6	3,315.05	6	3,487.05	6		6		6		6		6		6		6	
1/4	3,146.21	1/4	3,318.64	1/4	3,490.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,149.80	1/2	3,322.24	1/2	3,494.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,153.39	3/4	3,325.83	3/4	3,497.77	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,156.98	7	3,329.42	7	3,501.35	7		7		7		7		7		7		7	
1/4	3,160.58	1/4	3,333.02	1/4	3,504.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,164.17	1/2	3,336.61	1/2	3,508.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,167.76	3/4	3,340.20	3/4	3,512.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,171.35	8	3,343.80	8	3,515.64	8		8		8		8		8		8		8	
1/4	3,174.95	1/4	3,347.39	1/4	3,519.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,178.54	1/2	3,350.98	1/2	3,522.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,182.13	3/4	3,354.58	3/4	3,526.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,185.72	9	3,358.17	9	3,529.91	9		9		9		9		9		9		9	
1/4	3,189.32	1/4	3,361.76	1/4	3,533.45	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,192.91	1/2	3,365.35	1/2	3,536.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.50	3/4	3,368.95	3/4	3,540.53	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,200.09	10	3,372.54	10	3,544.08	10		10		10		10		10		10		10	
1/4	3,203.69	1/4	3,376.13	1/4	3,547.62	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,207.28	1/2	3,379.73	1/2	3,551.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,210.87	3/4	3,383.32	3/4	3,554.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,214.46	11	3,386.91	11	3,558.24	11		11		11		11		11		11		11	
1/4	3,218.06	1/4	3,390.50	1/4	3,561.78	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,221.65	1/2	3,394.09	1/2	3,565.33	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.24	3/4	3,397.68	3/4	3,568.87	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 3011"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 3/4"

Table with columns for depth (0 to 11 ft) and gauge height (0 to 3/4 ft) and corresponding capacity in barrels. The table contains 18 columns and 180 rows of data.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK. CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE. GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 39'-00" FORWARD OF AFT BULKHEAD.

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BARGE "EMS 3011"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-9 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	3,078.22	0	3,250.71	0	3,423.18	0	3,594.37	0		0		0		0		0		0	
1/4	3,081.82	1/4	3,254.30	1/4	3,426.76	1/4	3,597.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,085.41	1/2	3,257.89	1/2	3,430.34	1/2	3,601.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,089.00	3/4	3,261.49	3/4	3,433.91	3/4	3,604.99	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,092.60	1	3,265.08	1	3,437.49	1	3,608.54	1		1		1		1		1		1	
1/4	3,096.19	1/4	3,268.67	1/4	3,441.06	1/4	3,612.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,099.78	1/2	3,272.27	1/2	3,444.64	1/2	3,615.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,103.38	3/4	3,275.86	3/4	3,448.21	3/4	3,619.13	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,106.97	2	3,279.45	2	3,451.79	2	3,622.67	2		2		2		2		2		2	
1/4	3,110.56	1/4	3,283.05	1/4	3,455.36	1/4	3,626.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,114.16	1/2	3,286.64	1/2	3,458.94	1/2	3,629.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,117.75	3/4	3,290.23	3/4	3,462.51	3/4	3,632.89	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,121.34	3	3,293.83	3	3,466.09	3	3,636.30	3		3		3		3		3		3	
1/4	3,124.94	1/4	3,297.42	1/4	3,469.66	1/4	3,638.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,128.53	1/2	3,301.01	1/2	3,473.24	1/2	3,641.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,132.12	3/4	3,304.61	3/4	3,476.81	3/4	3,644.33	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,135.72	4	3,308.20	4	3,480.39	4	3,647.00	4		4		4		4		4		4	
1/4	3,139.31	1/4	3,311.79	1/4	3,483.96	1/4	3,648.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,142.90	1/2	3,315.39	1/2	3,487.54	1/2	3,649.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,146.50	3/4	3,318.98	3/4	3,491.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	3,150.09	5	3,322.57	5	3,494.69	5		5		5		5		5		5		5	
1/4	3,153.69	1/4	3,326.17	1/4	3,498.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,157.28	1/2	3,329.76	1/2	3,501.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,160.87	3/4	3,333.35	3/4	3,505.41	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	3,164.47	6	3,336.95	6	3,508.99	6		6		6		6		6		6		6	
1/4	3,168.06	1/4	3,340.54	1/4	3,512.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,171.65	1/2	3,344.14	1/2	3,516.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,175.25	3/4	3,347.73	3/4	3,519.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	3,178.84	7	3,351.32	7	3,523.29	7		7		7		7		7		7		7	
1/4	3,182.43	1/4	3,354.92	1/4	3,526.87	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,186.03	1/2	3,358.51	1/2	3,530.44	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,189.62	3/4	3,362.11	3/4	3,534.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	3,193.21	8	3,365.70	8	3,537.59	8		8		8		8		8		8		8	
1/4	3,196.81	1/4	3,369.29	1/4	3,541.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,200.40	1/2	3,372.89	1/2	3,544.72	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,203.99	3/4	3,376.48	3/4	3,548.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	3,207.59	9	3,380.08	9	3,551.86	9		9		9		9		9		9		9	
1/4	3,211.18	1/4	3,383.67	1/4	3,555.40	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,214.77	1/2	3,387.26	1/2	3,558.94	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,218.37	3/4	3,390.86	3/4	3,562.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	3,221.96	10	3,394.45	10	3,566.03	10		10		10		10		10		10		10	
1/4	3,225.55	1/4	3,398.05	1/4	3,569.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,229.15	1/2	3,401.64	1/2	3,573.11	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,232.74	3/4	3,405.23	3/4	3,576.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,236.33	11	3,408.83	11	3,580.20	11		11		11		11		11		11		11	
1/4	3,239.93	1/4	3,412.42	1/4	3,583.74	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.52	1/2	3,416.01	1/2	3,587.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,247.11	3/4	3,419.60	3/4	3,590.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 SW-CL
CALCULATED: 04/24/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
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P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 3011"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8
1 STBD	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/8	- 01-1/8
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 PORT	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	00-3/8	- 00-3/8
3 STBD	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	00-3/8	- 00-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 245'-06"

April 23, 2014

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 3011"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 48'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 3011"

**1 PORT
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,332.43	0	1,964.31	0	1,596.19	0	1,228.07	0	859.94	0	505.89	0	144.99	0		0		0	
1/4	2,324.76	1/4	1,956.64	1/4	1,588.52	1/4	1,220.40	1/4	852.28	1/4	498.56	1/4	137.57	1/4		1/4		1/4	
1/2	2,317.09	1/2	1,948.97	1/2	1,580.85	1/2	1,212.73	1/2	844.61	1/2	491.23	1/2	130.14	1/2		1/2		1/2	
3/4	2,309.42	3/4	1,941.30	3/4	1,573.18	3/4	1,205.06	3/4	836.94	3/4	483.90	3/4	122.59	3/4		3/4		3/4	
1	2,301.75	1	1,933.63	1	1,565.51	1	1,197.39	1	829.27	1	476.57	1	115.03	1		1		1	
1/4	2,294.09	1/4	1,925.96	1/4	1,557.84	1/4	1,189.72	1/4	821.60	1/4	469.24	1/4	107.48	1/4		1/4		1/4	
1/2	2,286.42	1/2	1,918.29	1/2	1,550.17	1/2	1,182.05	1/2	813.93	1/2	461.91	1/2	99.92	1/2		1/2		1/2	
3/4	2,278.75	3/4	1,910.63	3/4	1,542.50	3/4	1,174.38	3/4	806.51	3/4	454.33	3/4	92.30	3/4		3/4		3/4	
2	2,271.08	2	1,902.96	2	1,534.83	2	1,166.71	2	799.10	2	446.74	2	84.68	2		2		2	
1/4	2,263.41	1/4	1,895.29	1/4	1,527.17	1/4	1,159.04	1/4	791.68	1/4	439.16	1/4	77.05	1/4		1/4		1/4	
1/2	2,255.74	1/2	1,887.62	1/2	1,519.50	1/2	1,151.37	1/2	784.27	1/2	431.57	1/2	69.43	1/2		1/2		1/2	
3/4	2,248.07	3/4	1,879.95	3/4	1,511.83	3/4	1,143.71	3/4	776.94	3/4	423.90	3/4	62.49	3/4		3/4		3/4	
3	2,240.40	3	1,872.28	3	1,504.16	3	1,136.04	3	769.62	3	416.23	3	55.55	3		3		3	
1/4	2,232.73	1/4	1,864.61	1/4	1,496.49	1/4	1,128.37	1/4	762.29	1/4	408.57	1/4	48.61	1/4		1/4		1/4	
1/2	2,225.06	1/2	1,856.94	1/2	1,488.82	1/2	1,120.70	1/2	754.97	1/2	400.90	1/2	41.67	1/2		1/2		1/2	
3/4	2,217.39	3/4	1,849.27	3/4	1,481.15	3/4	1,113.03	3/4	747.64	3/4	393.23	3/4	36.40	3/4		3/4		3/4	
4	2,209.72	4	1,841.60	4	1,473.48	4	1,105.36	4	740.32	4	385.56	4	31.13	4		4		4	
1/4	2,202.06	1/4	1,833.93	1/4	1,465.81	1/4	1,097.69	1/4	732.99	1/4	377.89	1/4	25.86	1/4		1/4		1/4	
1/2	2,194.39	1/2	1,826.26	1/2	1,458.14	1/2	1,090.02	1/2	725.67	1/2	370.22	1/2	20.59	1/2		1/2		1/2	
3/4	2,186.72	3/4	1,818.60	3/4	1,450.47	3/4	1,082.35	3/4	718.34	3/4	362.55	3/4		3/4		3/4		3/4	
5	2,179.05	5	1,810.93	5	1,442.80	5	1,074.68	5	711.02	5	354.88	5		5		5		5	
1/4	2,171.38	1/4	1,803.26	1/4	1,435.14	1/4	1,067.01	1/4	703.69	1/4	347.21	1/4		1/4		1/4		1/4	
1/2	2,163.71	1/2	1,795.59	1/2	1,427.47	1/2	1,059.34	1/2	696.37	1/2	339.54	1/2		1/2		1/2		1/2	
3/4	2,156.04	3/4	1,787.92	3/4	1,419.80	3/4	1,051.68	3/4	689.04	3/4	331.88	3/4		3/4		3/4		3/4	
6	2,148.37	6	1,780.25	6	1,412.13	6	1,044.01	6	681.72	6	324.21	6		6		6		6	
1/4	2,140.70	1/4	1,772.58	1/4	1,404.46	1/4	1,036.34	1/4	674.39	1/4	316.54	1/4		1/4		1/4		1/4	
1/2	2,133.03	1/2	1,764.91	1/2	1,396.79	1/2	1,028.67	1/2	667.07	1/2	308.87	1/2		1/2		1/2		1/2	
3/4	2,125.36	3/4	1,757.24	3/4	1,389.12	3/4	1,021.00	3/4	659.74	3/4	301.34	3/4		3/4		3/4		3/4	
7	2,117.69	7	1,749.57	7	1,381.45	7	1,013.33	7	652.42	7	293.80	7		7		7		7	
1/4	2,110.02	1/4	1,741.90	1/4	1,373.78	1/4	1,005.66	1/4	645.09	1/4	286.27	1/4		1/4		1/4		1/4	
1/2	2,102.36	1/2	1,734.23	1/2	1,366.11	1/2	997.99	1/2	637.77	1/2	278.74	1/2		1/2		1/2		1/2	
3/4	2,094.69	3/4	1,726.56	3/4	1,358.44	3/4	990.32	3/4	630.44	3/4	271.30	3/4		3/4		3/4		3/4	
8	2,087.02	8	1,718.90	8	1,350.77	8	982.65	8	623.12	8	263.85	8		8		8		8	
1/4	2,079.35	1/4	1,711.23	1/4	1,343.10	1/4	974.98	1/4	615.79	1/4	256.41	1/4		1/4		1/4		1/4	
1/2	2,071.68	1/2	1,703.56	1/2	1,335.44	1/2	967.31	1/2	608.47	1/2	248.97	1/2		1/2		1/2		1/2	
3/4	2,064.01	3/4	1,695.89	3/4	1,327.77	3/4	959.64	3/4	601.14	3/4	241.54	3/4		3/4		3/4		3/4	
9	2,056.34	9	1,688.22	9	1,320.10	9	951.98	9	593.82	9	234.12	9		9		9		9	
1/4	2,048.67	1/4	1,680.55	1/4	1,312.43	1/4	944.31	1/4	586.49	1/4	226.69	1/4		1/4		1/4		1/4	
1/2	2,041.00	1/2	1,672.88	1/2	1,304.76	1/2	936.64	1/2	579.17	1/2	219.26	1/2		1/2		1/2		1/2	
3/4	2,033.33	3/4	1,665.21	3/4	1,297.09	3/4	928.97	3/4	571.84	3/4	211.83	3/4		3/4		3/4		3/4	
10	2,025.66	10	1,657.54	10	1,289.42	10	921.30	10	564.52	10	204.41	10		10		10		10	
1/4	2,017.99	1/4	1,649.87	1/4	1,281.75	1/4	913.63	1/4	557.19	1/4	196.98	1/4		1/4		1/4		1/4	
1/2	2,010.33	1/2	1,642.20	1/2	1,274.08	1/2	905.96	1/2	549.87	1/2	189.55	1/2		1/2		1/2		1/2	
3/4	2,002.66	3/4	1,634.53	3/4	1,266.41	3/4	898.29	3/4	542.54	3/4	182.13	3/4		3/4		3/4		3/4	
11	1,994.99	11	1,626.87	11	1,258.74	11	890.62	11	535.21	11	174.70	11		11		11		11	
1/4	1,987.32	1/4	1,619.20	1/4	1,251.07	1/4	882.95	1/4	527.88	1/4	167.27	1/4		1/4		1/4		1/4	
1/2	1,979.65	1/2	1,611.53	1/2	1,243.41	1/2	875.28	1/2	520.55	1/2	159.85	1/2		1/2		1/2		1/2	
3/4	1,971.98	3/4	1,603.86	3/4	1,235.74	3/4	867.61	3/4	513.22	3/4	152.42	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 CL - SW
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 3011"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

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
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 47'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3011"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	1,953.43	0	1,639.86	0	1,327.20	0	1,013.83	0	700.42	0	400.05	0	91.77	0		0		0	
1/4	1,946.90	1/4	1,633.33	1/4	1,320.69	1/4	1,007.30	1/4	693.89	1/4	393.79	1/4	85.33	1/4	1/4	1/4		1/4	
1/2	1,940.37	1/2	1,626.81	1/2	1,314.17	1/2	1,000.77	1/2	687.57	1/2	387.33	1/2	78.83	1/2	1/2	1/2		1/2	
3/4	1,933.83	3/4	1,620.29	3/4	1,307.64	3/4	994.24	3/4	681.24	3/4	380.86	3/4	72.33	3/4	3/4	3/4		3/4	
1	1,927.30	1	1,613.78	1	1,301.12	1	987.71	1	674.92	1	374.39	1	65.82	1	1	1		1	
1/4	1,920.77	1/4	1,607.26	1/4	1,294.59	1/4	981.18	1/4	668.60	1/4	367.93	1/4	59.32	1/4	1/4	1/4		1/4	
1/2	1,914.24	1/2	1,600.75	1/2	1,288.07	1/2	974.65	1/2	662.35	1/2	361.39	1/2	53.40	1/2	1/2	1/2		1/2	
3/4	1,907.70	3/4	1,594.23	3/4	1,281.54	3/4	968.12	3/4	656.10	3/4	354.86	3/4	47.48	3/4	3/4	3/4		3/4	
2	1,901.17	2	1,587.72	2	1,275.01	2	961.60	2	649.86	2	348.32	2	41.55	2	2	2		2	
1/4	1,894.64	1/4	1,581.21	1/4	1,268.48	1/4	955.07	1/4	643.61	1/4	341.79	1/4	35.63	1/4	1/4	1/4		1/4	
1/2	1,888.11	1/2	1,574.69	1/2	1,261.95	1/2	948.54	1/2	637.37	1/2	335.25	1/2	31.13	1/2	1/2	1/2		1/2	
3/4	1,881.57	3/4	1,568.18	3/4	1,255.42	3/4	942.01	3/4	631.13	3/4	328.72	3/4	26.63	3/4	3/4	3/4		3/4	
3	1,875.04	3	1,561.67	3	1,248.89	3	935.48	3	624.89	3	322.18	3	22.13	3	3	3		3	
1/4	1,868.51	1/4	1,555.16	1/4	1,242.36	1/4	928.95	1/4	618.64	1/4	315.65	1/4	17.63	1/4	1/4	1/4		1/4	
1/2	1,861.97	1/2	1,548.64	1/2	1,235.83	1/2	922.42	1/2	612.40	1/2	309.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,855.44	3/4	1,542.13	3/4	1,229.30	3/4	915.89	3/4	606.16	3/4	302.58	3/4		3/4	3/4	3/4		3/4	
4	1,848.91	4	1,535.62	4	1,222.77	4	909.36	4	599.92	4	296.04	4		4	4	4		4	
1/4	1,842.38	1/4	1,529.10	1/4	1,216.24	1/4	902.83	1/4	593.67	1/4	289.51	1/4		1/4	1/4	1/4		1/4	
1/2	1,835.84	1/2	1,522.59	1/2	1,209.71	1/2	896.30	1/2	587.43	1/2	282.98	1/2		1/2	1/2	1/2		1/2	
3/4	1,829.31	3/4	1,516.08	3/4	1,203.18	3/4	889.77	3/4	581.19	3/4	276.44	3/4		3/4	3/4	3/4		3/4	
5	1,822.78	5	1,509.57	5	1,196.65	5	883.24	5	574.95	5	269.91	5		5	5	5		5	
1/4	1,816.25	1/4	1,503.05	1/4	1,190.12	1/4	876.71	1/4	568.71	1/4	263.37	1/4		1/4	1/4	1/4		1/4	
1/2	1,809.71	1/2	1,496.54	1/2	1,183.59	1/2	870.18	1/2	562.46	1/2	256.95	1/2		1/2	1/2	1/2		1/2	
3/4	1,803.18	3/4	1,490.03	3/4	1,177.07	3/4	863.65	3/4	556.22	3/4	250.53	3/4		3/4	3/4	3/4		3/4	
6	1,796.65	6	1,483.51	6	1,170.54	6	857.12	6	549.98	6	244.11	6		6	6	6		6	
1/4	1,790.11	1/4	1,477.00	1/4	1,164.01	1/4	850.60	1/4	543.74	1/4	237.70	1/4		1/4	1/4	1/4		1/4	
1/2	1,783.58	1/2	1,470.49	1/2	1,157.48	1/2	844.07	1/2	537.49	1/2	231.35	1/2		1/2	1/2	1/2		1/2	
3/4	1,777.05	3/4	1,463.97	3/4	1,150.95	3/4	837.54	3/4	531.25	3/4	225.01	3/4		3/4	3/4	3/4		3/4	
7	1,770.52	7	1,457.46	7	1,144.42	7	831.01	7	525.01	7	218.67	7		7	7	7		7	
1/4	1,763.98	1/4	1,450.95	1/4	1,137.89	1/4	824.48	1/4	518.77	1/4	212.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,757.45	1/2	1,444.44	1/2	1,131.36	1/2	817.95	1/2	512.52	1/2	206.00	1/2		1/2	1/2	1/2		1/2	
3/4	1,750.92	3/4	1,437.92	3/4	1,124.83	3/4	811.42	3/4	506.28	3/4	199.67	3/4		3/4	3/4	3/4		3/4	
8	1,744.39	8	1,431.41	8	1,118.30	8	804.89	8	500.04	8	193.35	8		8	8	8		8	
1/4	1,737.85	1/4	1,424.90	1/4	1,111.77	1/4	798.36	1/4	493.80	1/4	187.02	1/4		1/4	1/4	1/4		1/4	
1/2	1,731.32	1/2	1,418.38	1/2	1,105.24	1/2	791.83	1/2	487.56	1/2	180.69	1/2		1/2	1/2	1/2		1/2	
3/4	1,724.79	3/4	1,411.87	3/4	1,098.71	3/4	785.30	3/4	481.31	3/4	174.36	3/4		3/4	3/4	3/4		3/4	
9	1,718.25	9	1,405.36	9	1,092.18	9	778.77	9	475.07	9	168.03	9		9	9	9		9	
1/4	1,711.72	1/4	1,398.85	1/4	1,085.65	1/4	772.24	1/4	468.83	1/4	161.70	1/4		1/4	1/4	1/4		1/4	
1/2	1,705.19	1/2	1,392.33	1/2	1,079.12	1/2	765.71	1/2	462.58	1/2	155.38	1/2		1/2	1/2	1/2		1/2	
3/4	1,698.66	3/4	1,385.82	3/4	1,072.59	3/4	759.18	3/4	456.34	3/4	149.05	3/4		3/4	3/4	3/4		3/4	
10	1,692.12	10	1,379.31	10	1,066.07	10	752.65	10	450.09	10	142.72	10		10	10	10		10	
1/4	1,685.59	1/4	1,372.79	1/4	1,059.54	1/4	746.12	1/4	443.84	1/4	136.39	1/4		1/4	1/4	1/4		1/4	
1/2	1,679.06	1/2	1,366.28	1/2	1,053.01	1/2	739.60	1/2	437.59	1/2	130.06	1/2		1/2	1/2	1/2		1/2	
3/4	1,672.53	3/4	1,359.77	3/4	1,046.48	3/4	733.07	3/4	431.34	3/4	123.74	3/4		3/4	3/4	3/4		3/4	
11	1,665.99	11	1,353.26	11	1,039.95	11	726.54	11	425.09	11	117.41	11		11	11	11		11	
1/4	1,659.46	1/4	1,346.74	1/4	1,033.42	1/4	720.01	1/4	418.83	1/4	111.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,652.93	1/2	1,340.23	1/2	1,026.89	1/2	713.48	1/2	412.57	1/2	104.64	1/2		1/2	1/2	1/2		1/2	
3/4	1,646.40	3/4	1,333.72	3/4	1,020.36	3/4	706.95	3/4	406.31	3/4	98.21	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 CL - SW
CALCULATED: 04/24/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

PRECISION MEASUREMENT
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P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "EMS 3011"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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	1,972.29	0	1,658.00	0	1,343.71	0	1,029.42	0	715.13	0	401.27	0	91.83	0		0		0	
1/4	1,965.74	1/4	1,651.45	1/4	1,337.16	1/4	1,022.87	1/4	708.58	1/4	394.72	1/4	85.38	1/4	1/4	1/4		1/4	1/4
1/2	1,959.19	1/2	1,644.91	1/2	1,330.62	1/2	1,016.33	1/2	702.04	1/2	388.18	1/2	78.87	1/2	1/2	1/2		1/2	1/2
3/4	1,952.65	3/4	1,638.36	3/4	1,324.07	3/4	1,009.78	3/4	695.49	3/4	381.63	3/4	72.36	3/4	3/4	3/4		3/4	3/4
1	1,946.10	1	1,631.81	1	1,317.52	1	1,003.23	1	688.95	1	375.08	1	65.86	1	1	1		1	1
1/4	1,939.55	1/4	1,625.26	1/4	1,310.97	1/4	996.68	1/4	682.40	1/4	368.53	1/4	59.35	1/4	1/4	1/4		1/4	1/4
1/2	1,933.00	1/2	1,618.71	1/2	1,304.42	1/2	990.14	1/2	675.87	1/2	361.99	1/2	53.42	1/2	1/2	1/2		1/2	1/2
3/4	1,926.46	3/4	1,612.17	3/4	1,297.88	3/4	983.59	3/4	669.33	3/4	355.44	3/4	47.50	3/4	3/4	3/4		3/4	3/4
2	1,919.91	2	1,605.62	2	1,291.33	2	977.04	2	662.79	2	348.89	2	41.57	2	2	2		2	2
1/4	1,913.36	1/4	1,599.07	1/4	1,284.78	1/4	970.49	1/4	656.25	1/4	342.34	1/4	35.65	1/4	1/4	1/4		1/4	1/4
1/2	1,906.81	1/2	1,592.52	1/2	1,278.23	1/2	963.94	1/2	649.72	1/2	335.80	1/2	31.15	1/2	1/2	1/2		1/2	1/2
3/4	1,900.27	3/4	1,585.98	3/4	1,271.69	3/4	957.40	3/4	643.18	3/4	329.25	3/4	26.65	3/4	3/4	3/4		3/4	3/4
3	1,893.72	3	1,579.43	3	1,265.14	3	950.85	3	636.64	3	322.70	3	22.15	3	3	3		3	3
1/4	1,887.17	1/4	1,572.88	1/4	1,258.59	1/4	944.30	1/4	630.11	1/4	316.15	1/4	17.64	1/4	1/4	1/4		1/4	1/4
1/2	1,880.62	1/2	1,566.33	1/2	1,252.04	1/2	937.75	1/2	623.57	1/2	309.61	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,874.07	3/4	1,559.79	3/4	1,245.50	3/4	931.21	3/4	617.04	3/4	303.06	3/4		3/4	3/4	3/4		3/4	3/4
4	1,867.53	4	1,553.24	4	1,238.95	4	924.66	4	610.50	4	296.51	4	4	4	4	4		4	4
1/4	1,860.98	1/4	1,546.69	1/4	1,232.40	1/4	918.11	1/4	603.96	1/4	289.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,854.43	1/2	1,540.14	1/2	1,225.85	1/2	911.56	1/2	597.43	1/2	283.42	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,847.88	3/4	1,533.59	3/4	1,219.30	3/4	905.02	3/4	590.89	3/4	276.87	3/4		3/4	3/4	3/4		3/4	3/4
5	1,841.34	5	1,527.05	5	1,212.76	5	898.47	5	584.36	5	270.32	5	5	5	5	5		5	5
1/4	1,834.79	1/4	1,520.50	1/4	1,206.21	1/4	891.92	1/4	577.82	1/4	263.77	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,828.24	1/2	1,513.95	1/2	1,199.66	1/2	885.37	1/2	571.28	1/2	257.34	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,821.69	3/4	1,507.40	3/4	1,193.11	3/4	878.82	3/4	564.75	3/4	250.91	3/4		3/4	3/4	3/4		3/4	3/4
6	1,815.15	6	1,500.86	6	1,186.57	6	872.28	6	558.21	6	244.48	6	6	6	6	6		6	6
1/4	1,808.60	1/4	1,494.31	1/4	1,180.02	1/4	865.73	1/4	551.68	1/4	238.05	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,802.05	1/2	1,487.76	1/2	1,173.47	1/2	859.18	1/2	545.14	1/2	231.70	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,795.50	3/4	1,481.21	3/4	1,166.92	3/4	852.63	3/4	538.60	3/4	225.34	3/4		3/4	3/4	3/4		3/4	3/4
7	1,788.95	7	1,474.67	7	1,160.38	7	846.09	7	532.07	7	218.99	7	7	7	7	7		7	7
1/4	1,782.41	1/4	1,468.12	1/4	1,153.83	1/4	839.54	1/4	525.53	1/4	212.63	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,775.86	1/2	1,461.57	1/2	1,147.28	1/2	832.99	1/2	519.00	1/2	206.29	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,769.31	3/4	1,455.02	3/4	1,140.73	3/4	826.44	3/4	512.46	3/4	199.95	3/4		3/4	3/4	3/4		3/4	3/4
8	1,762.76	8	1,448.47	8	1,134.18	8	819.90	8	505.92	8	193.61	8	8	8	8	8		8	8
1/4	1,756.22	1/4	1,441.93	1/4	1,127.64	1/4	813.35	1/4	499.39	1/4	187.27	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,749.67	1/2	1,435.38	1/2	1,121.09	1/2	806.80	1/2	492.85	1/2	180.93	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,743.12	3/4	1,428.83	3/4	1,114.54	3/4	800.25	3/4	486.32	3/4	174.59	3/4		3/4	3/4	3/4		3/4	3/4
9	1,736.57	9	1,422.28	9	1,107.99	9	793.70	9	479.78	9	168.25	9	9	9	9	9		9	9
1/4	1,730.03	1/4	1,415.74	1/4	1,101.45	1/4	787.16	1/4	473.24	1/4	161.91	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,723.48	1/2	1,409.19	1/2	1,094.90	1/2	780.61	1/2	466.70	1/2	155.56	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,716.93	3/4	1,402.64	3/4	1,088.35	3/4	774.06	3/4	460.16	3/4	149.22	3/4		3/4	3/4	3/4		3/4	3/4
10	1,710.38	10	1,396.09	10	1,081.80	10	767.51	10	453.62	10	142.88	10	10	10	10	10		10	10
1/4	1,703.83	1/4	1,389.54	1/4	1,075.26	1/4	760.97	1/4	447.08	1/4	136.54	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,697.29	1/2	1,383.00	1/2	1,068.71	1/2	754.42	1/2	440.54	1/2	130.20	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,690.74	3/4	1,376.45	3/4	1,062.16	3/4	747.87	3/4	434.00	3/4	123.86	3/4		3/4	3/4	3/4		3/4	3/4
11	1,684.19	11	1,369.90	11	1,055.61	11	741.32	11	427.45	11	117.52	11	11	11	11	11		11	11
1/4	1,677.64	1/4	1,363.35	1/4	1,049.06	1/4	734.77	1/4	420.91	1/4	111.18	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,671.10	1/2	1,356.81	1/2	1,042.52	1/2	728.23	1/2	414.36	1/2	104.73	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,664.55	3/4	1,350.26	3/4	1,035.97	3/4	721.68	3/4	407.82	3/4	98.28	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2014 CL - SW
CALCULATED: 04/24/2014 CL
PRINTED: 04/27/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2014

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