



# BARGE "EMS 391"

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

(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 00-1/2"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 6, 2015

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 391"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,175.73	0	3,507.04	0	3,826.34	0	4,125.06	0		0		0		0		0		0	
1/4	3,182.63	1/4	3,513.88	1/4	3,832.77	1/4	4,131.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,189.54	1/2	3,520.72	1/2	3,839.19	1/2	4,137.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.44	3/4	3,527.56	3/4	3,845.62	3/4	4,142.99	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,203.35	1	3,534.40	1	3,852.05	1	4,148.97	1		1		1		1		1		1	
1/4	3,210.25	1/4	3,541.21	1/4	3,858.45	1/4	4,154.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,217.16	1/2	3,548.01	1/2	3,864.84	1/2	4,160.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,224.06	3/4	3,554.82	3/4	3,871.24	3/4	4,166.79	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,230.97	2	3,561.63	2	3,877.63	2	4,172.74	2		2		2		2		2		2	
1/4	3,237.87	1/4	3,568.40	1/4	3,883.99	1/4	4,178.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,244.78	1/2	3,575.17	1/2	3,890.35	1/2	4,184.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.68	3/4	3,581.94	3/4	3,896.71	3/4	4,190.46	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,258.59	3	3,588.72	3	3,903.07	3	4,196.37	3		3		3		3		3		3	
1/4	3,265.49	1/4	3,595.45	1/4	3,909.40	1/4	4,202.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,272.40	1/2	3,602.19	1/2	3,915.72	1/2	4,208.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.30	3/4	3,608.93	3/4	3,922.05	3/4	4,213.99	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,286.21	4	3,615.67	4	3,928.37	4	4,219.86	4		4		4		4		4		4	
1/4	3,293.11	1/4	3,622.37	1/4	3,934.67	1/4	4,226.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.02	1/2	3,629.08	1/2	3,940.96	1/2	4,232.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,306.92	3/4	3,635.78	3/4	3,947.25	3/4	4,238.95	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,313.83	5	3,642.48	5	3,953.54	5	4,245.31	5		5		5		5		5		5	
1/4	3,320.73	1/4	3,649.15	1/4	3,959.80	1/4	4,252.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,327.64	1/2	3,655.82	1/2	3,966.05	1/2	4,259.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,334.54	3/4	3,662.49	3/4	3,972.31	3/4	4,265.90	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,341.45	6	3,669.16	6	3,978.57	6	4,272.77	6		6		6		6		6		6	
1/4	3,348.36	1/4	3,675.79	1/4	3,984.79	1/4	4,279.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,355.26	1/2	3,682.43	1/2	3,991.01	1/2	4,286.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,362.17	3/4	3,689.06	3/4	3,997.24	3/4	4,293.36	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,369.07	7	3,695.70	7	4,003.46	7	4,300.23	7		7		7		7		7		7	
1/4	3,375.98	1/4	3,702.30	1/4	4,009.61	1/4	4,307.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,382.88	1/2	3,708.90	1/2	4,015.76	1/2	4,313.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,389.79	3/4	3,715.50	3/4	4,021.91	3/4	4,320.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,396.69	8	3,722.10	8	4,028.05	8	4,327.40	8		8		8		8		8		8	
1/4	3,403.60	1/4	3,728.67	1/4	4,034.17	1/4	4,333.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,410.50	1/2	3,735.23	1/2	4,040.28	1/2	4,339.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.41	3/4	3,741.80	3/4	4,046.40	3/4	4,345.89	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,424.31	9	3,748.37	9	4,052.51	9	4,352.05	9		9		9		9		9		9	
1/4	3,431.22	1/4	3,754.90	1/4	4,058.59	1/4	4,356.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,438.12	1/2	3,761.43	1/2	4,064.67	1/2	4,361.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,445.03	3/4	3,767.96	3/4	4,070.75	3/4	4,366.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,451.93	10	3,774.49	10	4,076.83	10		10		10		10		10		10		10	
1/4	3,458.83	1/4	3,780.99	1/4	4,082.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,465.73	1/2	3,787.49	1/2	4,088.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,472.64	3/4	3,793.99	3/4	4,094.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,479.54	11	3,800.48	11	4,101.01	11		11		11		11		11		11		11	
1/4	3,486.41	1/4	3,806.95	1/4	4,107.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,493.29	1/2	3,813.41	1/2	4,113.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,500.16	3/4	3,819.87	3/4	4,119.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,178.29	0	3,509.73	0	3,829.15	0	4,127.98	0		0		0		0		0		0	
1/4	3,185.20	1/4	3,516.58	1/4	3,835.59	1/4	4,133.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,192.11	1/2	3,523.42	1/2	3,842.02	1/2	4,139.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,199.02	3/4	3,530.26	3/4	3,848.45	3/4	4,145.92	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,205.93	1	3,537.11	1	3,854.88	1	4,151.90	1		1		1		1		1		1	
1/4	3,212.83	1/4	3,543.92	1/4	3,861.28	1/4	4,157.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.74	1/2	3,550.72	1/2	3,867.67	1/2	4,163.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.65	3/4	3,557.53	3/4	3,874.07	3/4	4,169.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,233.56	2	3,564.34	2	3,880.47	2	4,175.68	2		2		2		2		2		2	
1/4	3,240.47	1/4	3,571.12	1/4	3,886.83	1/4	4,181.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,247.37	1/2	3,577.89	1/2	3,893.19	1/2	4,187.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.28	3/4	3,584.67	3/4	3,899.55	3/4	4,193.41	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,261.19	3	3,591.44	3	3,905.92	3	4,199.32	3		3		3		3		3		3	
1/4	3,268.10	1/4	3,598.18	1/4	3,912.25	1/4	4,205.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,275.01	1/2	3,604.92	1/2	3,918.57	1/2	4,211.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.91	3/4	3,611.66	3/4	3,924.90	3/4	4,216.95	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,288.82	4	3,618.41	4	3,931.23	4	4,222.82	4		4		4		4		4		4	
1/4	3,295.73	1/4	3,625.11	1/4	3,937.52	1/4	4,229.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,302.64	1/2	3,631.82	1/2	3,943.82	1/2	4,235.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.55	3/4	3,638.52	3/4	3,950.11	3/4	4,241.91	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,316.45	5	3,645.23	5	3,956.41	5	4,248.28	5		5		5		5		5		5	
1/4	3,323.36	1/4	3,651.90	1/4	3,962.66	1/4	4,255.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,330.27	1/2	3,658.57	1/2	3,968.92	1/2	4,262.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.18	3/4	3,665.25	3/4	3,975.18	3/4	4,268.88	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,344.09	6	3,671.92	6	3,981.44	6	4,275.75	6		6		6		6		6		6	
1/4	3,351.00	1/4	3,678.55	1/4	3,987.67	1/4	4,282.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,357.90	1/2	3,685.19	1/2	3,993.89	1/2	4,289.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,364.81	3/4	3,691.83	3/4	4,000.12	3/4	4,296.35	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,371.72	7	3,698.47	7	4,006.34	7	4,303.22	7		7		7		7		7		7	
1/4	3,378.63	1/4	3,705.07	1/4	4,012.49	1/4	4,310.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,385.54	1/2	3,711.67	1/2	4,018.64	1/2	4,316.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,392.44	3/4	3,718.28	3/4	4,024.80	3/4	4,323.60	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,399.35	8	3,724.88	8	4,030.95	8	4,330.40	8		8		8		8		8		8	
1/4	3,406.26	1/4	3,731.45	1/4	4,037.06	1/4	4,336.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,413.17	1/2	3,738.02	1/2	4,043.18	1/2	4,342.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,420.08	3/4	3,744.59	3/4	4,049.30	3/4	4,348.90	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,426.98	9	3,751.15	9	4,055.41	9	4,355.07	9		9		9		9		9		9	
1/4	3,433.89	1/4	3,757.69	1/4	4,061.49	1/4	4,359.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,440.80	1/2	3,764.22	1/2	4,067.58	1/2	4,364.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,447.71	3/4	3,770.76	3/4	4,073.66	3/4	4,369.80	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,454.62	10	3,777.29	10	4,079.74	10		10		10		10		10		10		10	
1/4	3,461.52	1/4	3,783.79	1/4	4,085.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,468.42	1/2	3,790.29	1/2	4,091.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,475.32	3/4	3,796.79	3/4	4,097.88	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,482.22	11	3,803.29	11	4,103.93	11		11		11		11		11		11		11	
1/4	3,489.10	1/4	3,809.76	1/4	4,109.94	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,495.98	1/2	3,816.22	1/2	4,115.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,502.85	3/4	3,822.69	3/4	4,121.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,877.99	0	4,266.25	0	4,640.43	0	4,990.47	0		0		0		0		0		0	
1/4	3,886.08	1/4	4,274.26	1/4	4,647.96	1/4	4,997.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,894.18	1/2	4,282.28	1/2	4,655.50	1/2	5,004.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,902.27	3/4	4,290.30	3/4	4,663.03	3/4	5,011.48	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,910.36	1	4,298.32	1	4,670.57	1	5,018.49	1		1		1		1		1		1	
1/4	3,918.45	1/4	4,306.29	1/4	4,678.06	1/4	5,025.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,926.54	1/2	4,314.27	1/2	4,685.55	1/2	5,032.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,934.64	3/4	4,322.25	3/4	4,693.05	3/4	5,039.38	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,942.73	2	4,330.22	2	4,700.54	2	5,046.34	2		2		2		2		2		2	
1/4	3,950.82	1/4	4,338.16	1/4	4,707.99	1/4	5,053.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,958.91	1/2	4,346.09	1/2	4,715.45	1/2	5,060.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.01	3/4	4,354.03	3/4	4,722.90	3/4	5,067.11	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,975.10	3	4,361.97	3	4,730.35	3	5,074.03	3		3		3		3		3		3	
1/4	3,983.19	1/4	4,369.86	1/4	4,737.76	1/4	5,080.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,991.28	1/2	4,377.76	1/2	4,745.18	1/2	5,087.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,999.38	3/4	4,385.66	3/4	4,752.59	3/4	5,094.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,007.47	4	4,393.55	4	4,760.00	4	5,101.56	4		4		4		4		4		4	
1/4	4,015.56	1/4	4,401.41	1/4	4,767.38	1/4	5,109.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,023.65	1/2	4,409.26	1/2	4,774.75	1/2	5,116.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,031.74	3/4	4,417.12	3/4	4,782.12	3/4	5,123.92	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,039.84	5	4,424.98	5	4,789.49	5	5,131.37	5		5		5		5		5		5	
1/4	4,047.93	1/4	4,432.79	1/4	4,796.83	1/4	5,139.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,056.02	1/2	4,440.61	1/2	4,804.16	1/2	5,147.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,064.11	3/4	4,448.42	3/4	4,811.49	3/4	5,155.51	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,072.21	6	4,456.24	6	4,818.82	6	5,163.56	6		6		6		6		6		6	
1/4	4,080.30	1/4	4,464.01	1/4	4,826.12	1/4	5,171.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,088.39	1/2	4,471.79	1/2	4,833.41	1/2	5,179.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,096.48	3/4	4,479.56	3/4	4,840.70	3/4	5,187.69	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,104.58	7	4,487.34	7	4,847.99	7	5,195.74	7		7		7		7		7		7	
1/4	4,112.67	1/4	4,495.07	1/4	4,855.20	1/4	5,203.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,120.76	1/2	4,502.81	1/2	4,862.40	1/2	5,211.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,128.85	3/4	4,510.54	3/4	4,869.61	3/4	5,219.62	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,136.94	8	4,518.28	8	4,876.81	8	5,227.57	8		8		8		8		8		8	
1/4	4,145.04	1/4	4,525.97	1/4	4,883.98	1/4	5,234.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,153.13	1/2	4,533.67	1/2	4,891.14	1/2	5,242.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,161.22	3/4	4,541.36	3/4	4,898.30	3/4	5,249.25	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,169.31	9	4,549.06	9	4,905.47	9	5,256.47	9		9		9		9		9		9	
1/4	4,177.41	1/4	4,556.71	1/4	4,912.59	1/4	5,262.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,185.50	1/2	4,564.37	1/2	4,919.72	1/2	5,267.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,193.59	3/4	4,572.02	3/4	4,926.84	3/4	5,273.73	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,201.68	10	4,579.68	10	4,933.96	10		10		10		10		10		10		10	
1/4	4,209.77	1/4	4,587.29	1/4	4,941.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,217.85	1/2	4,594.91	1/2	4,948.13	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,225.93	3/4	4,602.52	3/4	4,955.22	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,234.02	11	4,610.13	11	4,962.30	11		11		11		11		11		11		11	
1/4	4,242.08	1/4	4,617.71	1/4	4,969.34	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,250.13	1/2	4,625.28	1/2	4,976.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,258.19	3/4	4,632.86	3/4	4,983.43	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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







# BARGE "EMS 391"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,892.91	0	4,281.16	0	4,655.34	0	5,005.39	0		0		0		0		0		0	
1/4	3,901.00	1/4	4,289.18	1/4	4,662.88	1/4	5,012.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.09	1/2	4,297.19	1/2	4,670.41	1/2	5,019.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.18	3/4	4,305.21	3/4	4,677.94	3/4	5,026.40	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,925.27	1	4,313.23	1	4,685.48	1	5,033.40	1		1		1		1		1		1	
1/4	3,933.37	1/4	4,321.20	1/4	4,692.97	1/4	5,040.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.46	1/2	4,329.18	1/2	4,700.47	1/2	5,047.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.55	3/4	4,337.16	3/4	4,707.96	3/4	5,054.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,957.64	2	4,345.14	2	4,715.45	2	5,061.25	2		2		2		2		2		2	
1/4	3,965.74	1/4	4,353.07	1/4	4,722.91	1/4	5,068.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,973.83	1/2	4,361.01	1/2	4,730.36	1/2	5,075.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,981.92	3/4	4,368.94	3/4	4,737.81	3/4	5,082.02	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,990.01	3	4,376.88	3	4,745.27	3	5,088.94	3		3		3		3		3		3	
1/4	3,998.10	1/4	4,384.78	1/4	4,752.68	1/4	5,095.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,006.20	1/2	4,392.67	1/2	4,760.09	1/2	5,102.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,014.29	3/4	4,400.57	3/4	4,767.50	3/4	5,109.59	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,022.38	4	4,408.47	4	4,774.92	4	5,116.47	4		4		4		4		4		4	
1/4	4,030.47	1/4	4,416.32	1/4	4,782.29	1/4	5,123.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,038.57	1/2	4,424.18	1/2	4,789.66	1/2	5,131.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,046.66	3/4	4,432.03	3/4	4,797.04	3/4	5,138.83	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,054.75	5	4,439.89	5	4,804.41	5	5,146.29	5		5		5		5		5		5	
1/4	4,062.84	1/4	4,447.70	1/4	4,811.74	1/4	5,154.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,070.94	1/2	4,455.52	1/2	4,819.07	1/2	5,162.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,079.03	3/4	4,463.34	3/4	4,826.41	3/4	5,170.42	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,087.12	6	4,471.15	6	4,833.74	6	5,178.47	6		6		6		6		6		6	
1/4	4,095.21	1/4	4,478.93	1/4	4,841.03	1/4	5,186.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,103.30	1/2	4,486.70	1/2	4,848.32	1/2	5,194.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,111.40	3/4	4,494.48	3/4	4,855.61	3/4	5,202.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,119.49	7	4,502.25	7	4,862.91	7	5,210.65	7		7		7		7		7		7	
1/4	4,127.58	1/4	4,509.99	1/4	4,870.11	1/4	5,218.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,135.67	1/2	4,517.72	1/2	4,877.32	1/2	5,226.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,143.77	3/4	4,525.46	3/4	4,884.52	3/4	5,234.53	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,151.86	8	4,533.19	8	4,891.73	8	5,242.49	8		8		8		8		8		8	
1/4	4,159.95	1/4	4,540.89	1/4	4,898.89	1/4	5,249.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,168.04	1/2	4,548.58	1/2	4,906.05	1/2	5,256.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,176.14	3/4	4,556.28	3/4	4,913.22	3/4	5,264.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,184.23	9	4,563.97	9	4,920.38	9	5,271.39	9		9		9		9		9		9	
1/4	4,192.32	1/4	4,571.63	1/4	4,927.51	1/4	5,277.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,200.41	1/2	4,579.28	1/2	4,934.63	1/2	5,282.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,208.50	3/4	4,586.94	3/4	4,941.75	3/4	5,288.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,216.60	10	4,594.59	10	4,948.88	10		10		10		10		10		10		10	
1/4	4,224.68	1/4	4,602.20	1/4	4,955.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,232.76	1/2	4,609.82	1/2	4,963.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,240.85	3/4	4,617.43	3/4	4,970.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,248.93	11	4,625.05	11	4,977.21	11		11		11		11		11		11		11	
1/4	4,256.99	1/4	4,632.62	1/4	4,984.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,265.05	1/2	4,640.20	1/2	4,991.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,273.10	3/4	4,647.77	3/4	4,998.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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



BARGE "EMS 391"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

Table with columns for height (0 FT. to 9 FT.) and gauging (1/4, 1/2, 3/4) for each inch. It lists capacity values for every inch and sub-inch measurement.

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'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092 Pearlland, Texas 77588 http://www.pmacorp.net





# BARGE "EMS 391"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,565.12	0	3,859.40	0	4,140.60	0	4,399.51	0		0		0		0		0		0	
1/4	3,571.26	1/4	3,865.47	1/4	4,146.21	1/4	4,404.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,577.39	1/2	3,871.53	1/2	4,151.83	1/2	4,409.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,583.52	3/4	3,877.60	3/4	4,157.44	3/4	4,414.89	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,589.66	1	3,883.66	1	4,163.06	1	4,420.02	1		1		1		1		1		1	
1/4	3,595.79	1/4	3,889.69	1/4	4,168.64	1/4	4,425.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,601.93	1/2	3,895.71	1/2	4,174.21	1/2	4,430.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,608.06	3/4	3,901.74	3/4	4,179.79	3/4	4,435.30	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,614.19	2	3,907.77	2	4,185.37	2	4,440.39	2		2		2		2		2		2	
1/4	3,620.33	1/4	3,913.76	1/4	4,190.91	1/4	4,445.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,626.46	1/2	3,919.75	1/2	4,196.45	1/2	4,450.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,632.60	3/4	3,925.73	3/4	4,201.99	3/4	4,455.56	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,638.73	3	3,931.72	3	4,207.53	3	4,460.61	3		3		3		3		3		3	
1/4	3,644.87	1/4	3,937.68	1/4	4,213.03	1/4	4,465.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,651.00	1/2	3,943.63	1/2	4,218.53	1/2	4,470.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,657.13	3/4	3,949.58	3/4	4,224.04	3/4	4,475.66	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,663.27	4	3,955.53	4	4,229.54	4	4,480.68	4		4		4		4		4		4	
1/4	3,669.40	1/4	3,961.44	1/4	4,235.00	1/4	4,486.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,675.54	1/2	3,967.36	1/2	4,240.47	1/2	4,491.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,681.67	3/4	3,973.27	3/4	4,245.93	3/4	4,497.32	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,687.81	5	3,979.19	5	4,251.40	5	4,502.87	5		5		5		5		5		5	
1/4	3,693.94	1/4	3,985.06	1/4	4,256.83	1/4	4,508.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,700.07	1/2	3,990.94	1/2	4,262.25	1/2	4,515.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,706.21	3/4	3,996.82	3/4	4,267.68	3/4	4,521.17	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,712.34	6	4,002.70	6	4,273.11	6	4,527.26	6		6		6		6		6		6	
1/4	3,718.48	1/4	4,008.54	1/4	4,278.50	1/4	4,533.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,724.61	1/2	4,014.37	1/2	4,283.89	1/2	4,539.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,730.74	3/4	4,020.21	3/4	4,289.28	3/4	4,545.56	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,736.88	7	4,026.05	7	4,294.67	7	4,551.66	7		7		7		7		7		7	
1/4	3,743.01	1/4	4,031.86	1/4	4,299.99	1/4	4,559.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,749.15	1/2	4,037.66	1/2	4,305.30	1/2	4,566.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,755.28	3/4	4,043.46	3/4	4,310.62	3/4	4,573.86	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,761.42	8	4,049.26	8	4,315.94	8	4,581.26	8		8		8		8		8		8	
1/4	3,767.55	1/4	4,055.03	1/4	4,321.22	1/4	4,587.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,773.68	1/2	4,060.79	1/2	4,326.50	1/2	4,594.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,779.82	3/4	4,066.56	3/4	4,331.78	3/4	4,601.41	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,785.95	9	4,072.32	9	4,337.05	9	4,608.13	9		9		9		9		9		9	
1/4	3,792.09	1/4	4,078.05	1/4	4,342.30	1/4	4,613.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,798.22	1/2	4,083.77	1/2	4,347.54	1/2	4,618.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.36	3/4	4,089.50	3/4	4,352.78	3/4	4,624.18	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,810.49	10	4,095.23	10	4,358.02	10		10		10		10		10		10		10	
1/4	3,816.62	1/4	4,100.92	1/4	4,363.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,822.74	1/2	4,106.61	1/2	4,368.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,828.87	3/4	4,112.30	3/4	4,373.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,835.00	11	4,117.99	11	4,378.84	11		11		11		11		11		11		11	
1/4	3,841.10	1/4	4,123.64	1/4	4,384.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,847.20	1/2	4,129.29	1/2	4,389.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,853.30	3/4	4,134.95	3/4	4,394.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

## 3 STBD 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	3,559.03	0	3,853.22	0	4,134.33	0	4,393.17	0		0		0		0		0		0	
1/4	3,565.16	1/4	3,859.28	1/4	4,139.95	1/4	4,398.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,571.29	1/2	3,865.35	1/2	4,145.56	1/2	4,403.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,577.43	3/4	3,871.41	3/4	4,151.17	3/4	4,408.56	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,583.56	1	3,877.47	1	4,156.79	1	4,413.68	1		1		1		1		1		1	
1/4	3,589.69	1/4	3,883.49	1/4	4,162.36	1/4	4,418.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,595.82	1/2	3,889.52	1/2	4,167.94	1/2	4,423.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,601.95	3/4	3,895.54	3/4	4,173.51	3/4	4,428.96	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,608.09	2	3,901.57	2	4,179.09	2	4,434.05	2		2		2		2		2		2	
1/4	3,614.22	1/4	3,907.56	1/4	4,184.63	1/4	4,439.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,620.35	1/2	3,913.54	1/2	4,190.17	1/2	4,444.15	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,626.48	3/4	3,919.53	3/4	4,195.70	3/4	4,449.21	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,632.62	3	3,925.52	3	4,201.24	3	4,454.26	3		3		3		3		3		3	
1/4	3,638.75	1/4	3,931.47	1/4	4,206.74	1/4	4,459.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,644.88	1/2	3,937.42	1/2	4,212.25	1/2	4,464.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,651.01	3/4	3,943.37	3/4	4,217.75	3/4	4,469.31	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,657.15	4	3,949.32	4	4,223.25	4	4,474.32	4		4		4		4		4		4	
1/4	3,663.28	1/4	3,955.23	1/4	4,228.71	1/4	4,479.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,669.41	1/2	3,961.14	1/2	4,234.18	1/2	4,485.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,675.54	3/4	3,967.06	3/4	4,239.64	3/4	4,490.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,681.67	5	3,972.97	5	4,245.10	5	4,496.51	5		5		5		5		5		5	
1/4	3,687.81	1/4	3,978.84	1/4	4,250.53	1/4	4,502.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.94	1/2	3,984.72	1/2	4,255.96	1/2	4,508.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,700.07	3/4	3,990.59	3/4	4,261.38	3/4	4,514.80	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,706.20	6	3,996.47	6	4,266.81	6	4,520.90	6		6		6		6		6		6	
1/4	3,712.34	1/4	4,002.31	1/4	4,272.20	1/4	4,526.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,718.47	1/2	4,008.14	1/2	4,277.59	1/2	4,533.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.60	3/4	4,013.98	3/4	4,282.98	3/4	4,539.18	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,730.73	7	4,019.82	7	4,288.36	7	4,545.28	7		7		7		7		7		7	
1/4	3,736.87	1/4	4,025.62	1/4	4,293.68	1/4	4,552.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,743.00	1/2	4,031.42	1/2	4,298.99	1/2	4,560.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,749.13	3/4	4,037.22	3/4	4,304.31	3/4	4,567.48	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,755.26	8	4,043.02	8	4,309.62	8	4,574.88	8		8		8		8		8		8	
1/4	3,761.39	1/4	4,048.78	1/4	4,314.90	1/4	4,581.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,767.53	1/2	4,054.55	1/2	4,320.18	1/2	4,588.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,773.66	3/4	4,060.31	3/4	4,325.46	3/4	4,595.01	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,779.79	9	4,066.07	9	4,330.74	9	4,601.73	9		9		9		9		9		9	
1/4	3,785.92	1/4	4,071.80	1/4	4,335.98	1/4	4,607.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,792.06	1/2	4,077.52	1/2	4,341.22	1/2	4,612.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.19	3/4	4,083.25	3/4	4,346.46	3/4	4,617.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,804.32	10	4,088.98	10	4,351.70	10		10		10		10		10		10		10	
1/4	3,810.45	1/4	4,094.66	1/4	4,356.90	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,816.57	1/2	4,100.35	1/2	4,362.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,822.70	3/4	4,106.04	3/4	4,367.31	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,828.82	11	4,111.73	11	4,372.51	11		11		11		11		11		11		11	
1/4	3,834.92	1/4	4,117.38	1/4	4,377.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.02	1/2	4,123.03	1/2	4,382.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,847.12	3/4	4,128.68	3/4	4,388.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

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

(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 -00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 6, 2015

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 391"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 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	1,980.99	0	1,649.49	0	1,317.99	0	986.65	0	671.21	0	377.62	0	107.65	0		0			
1/4	1,974.09	1/4	1,642.58	1/4	1,311.08	1/4	979.83	1/4	664.86	1/4	371.76	1/4	102.28	1/4		1/4		1/4	
1/2	1,967.18	1/2	1,635.68	1/2	1,304.18	1/2	973.01	1/2	658.51	1/2	365.90	1/2	96.91	1/2		1/2		1/2	
3/4	1,960.27	3/4	1,628.77	3/4	1,297.27	3/4	966.19	3/4	652.16	3/4	360.04	3/4	91.54	3/4		3/4		3/4	
1	1,953.37	1	1,621.87	1	1,290.36	1	959.41	1	645.84	1	354.22	1	86.22	1		1		1	
1/4	1,946.46	1/4	1,614.96	1/4	1,283.46	1/4	952.64	1/4	639.53	1/4	348.40	1/4	80.89	1/4		1/4		1/4	
1/2	1,939.56	1/2	1,608.05	1/2	1,276.55	1/2	945.86	1/2	633.22	1/2	342.58	1/2	75.56	1/2		1/2		1/2	
3/4	1,932.65	3/4	1,601.15	3/4	1,269.64	3/4	939.08	3/4	626.91	3/4	336.76	3/4	70.24	3/4		3/4		3/4	
2	1,925.74	2	1,594.24	2	1,262.74	2	932.36	2	620.64	2	330.98	2	64.95	2		2		2	
1/4	1,918.84	1/4	1,587.33	1/4	1,255.83	1/4	925.64	1/4	614.37	1/4	325.20	1/4	59.66	1/4		1/4		1/4	
1/2	1,911.93	1/2	1,580.43	1/2	1,248.93	1/2	918.92	1/2	608.10	1/2	319.43	1/2	54.38	1/2		1/2		1/2	
3/4	1,905.02	3/4	1,573.52	3/4	1,242.02	3/4	912.19	3/4	601.83	3/4	313.65	3/4	49.09	3/4		3/4		3/4	
3	1,898.12	3	1,566.62	3	1,235.11	3	905.52	3	595.60	3	307.91	3	44.09	3		3		3	
1/4	1,891.21	1/4	1,559.71	1/4	1,228.21	1/4	898.84	1/4	589.37	1/4	302.17	1/4	39.10	1/4		1/4		1/4	
1/2	1,884.31	1/2	1,552.80	1/2	1,221.30	1/2	892.16	1/2	583.14	1/2	296.44	1/2	34.10	1/2		1/2		1/2	
3/4	1,877.40	3/4	1,545.90	3/4	1,214.39	3/4	885.48	3/4	576.91	3/4	290.70	3/4	29.10	3/4		3/4		3/4	
4	1,870.49	4	1,538.99	4	1,207.49	4	878.84	4	570.72	4	285.00	4	25.87	4		4		4	
1/4	1,863.59	1/4	1,532.08	1/4	1,200.58	1/4	872.20	1/4	564.53	1/4	279.31	1/4	22.64	1/4		1/4		1/4	
1/2	1,856.68	1/2	1,525.18	1/2	1,193.68	1/2	865.56	1/2	558.35	1/2	273.61	1/2	19.41	1/2		1/2		1/2	
3/4	1,849.77	3/4	1,518.27	3/4	1,186.77	3/4	858.92	3/4	552.16	3/4	267.92	3/4	16.18	3/4		3/4		3/4	
5	1,842.87	5	1,511.37	5	1,179.86	5	852.33	5	546.01	5	262.26	5		5		5		5	
1/4	1,835.96	1/4	1,504.46	1/4	1,172.96	1/4	845.74	1/4	539.86	1/4	256.61	1/4		1/4		1/4		1/4	
1/2	1,829.05	1/2	1,497.55	1/2	1,166.05	1/2	839.14	1/2	533.72	1/2	250.95	1/2		1/2		1/2		1/2	
3/4	1,822.15	3/4	1,490.65	3/4	1,159.14	3/4	832.55	3/4	527.57	3/4	245.29	3/4		3/4		3/4		3/4	
6	1,815.24	6	1,483.74	6	1,152.24	6	826.00	6	521.46	6	239.68	6		6		6		6	
1/4	1,808.34	1/4	1,476.83	1/4	1,145.33	1/4	819.44	1/4	515.36	1/4	234.07	1/4		1/4		1/4		1/4	
1/2	1,801.43	1/2	1,469.93	1/2	1,138.42	1/2	812.89	1/2	509.25	1/2	228.45	1/2		1/2		1/2		1/2	
3/4	1,794.52	3/4	1,463.02	3/4	1,131.52	3/4	806.34	3/4	503.14	3/4	222.84	3/4		3/4		3/4		3/4	
7	1,787.62	7	1,456.11	7	1,124.61	7	799.83	7	497.08	7	217.27	7		7		7		7	
1/4	1,780.71	1/4	1,449.21	1/4	1,117.71	1/4	793.31	1/4	491.01	1/4	211.69	1/4		1/4		1/4		1/4	
1/2	1,773.80	1/2	1,442.30	1/2	1,110.80	1/2	786.79	1/2	484.95	1/2	206.12	1/2		1/2		1/2		1/2	
3/4	1,766.90	3/4	1,435.40	3/4	1,103.89	3/4	780.28	3/4	478.88	3/4	200.55	3/4		3/4		3/4		3/4	
8	1,759.99	8	1,428.49	8	1,096.99	8	773.80	8	472.86	8	195.01	8		8		8		8	
1/4	1,753.09	1/4	1,421.58	1/4	1,090.08	1/4	767.33	1/4	466.83	1/4	189.48	1/4		1/4		1/4		1/4	
1/2	1,746.18	1/2	1,414.68	1/2	1,083.17	1/2	760.85	1/2	460.81	1/2	183.95	1/2		1/2		1/2		1/2	
3/4	1,739.27	3/4	1,407.77	3/4	1,076.27	3/4	754.38	3/4	454.79	3/4	178.42	3/4		3/4		3/4		3/4	
9	1,732.37	9	1,400.86	9	1,069.36	9	747.95	9	448.80	9	172.93	9		9		9		9	
1/4	1,725.46	1/4	1,393.96	1/4	1,062.46	1/4	741.51	1/4	442.82	1/4	167.44	1/4		1/4		1/4		1/4	
1/2	1,718.55	1/2	1,387.05	1/2	1,055.55	1/2	735.08	1/2	436.84	1/2	161.94	1/2		1/2		1/2		1/2	
3/4	1,711.65	3/4	1,380.15	3/4	1,048.64	3/4	728.65	3/4	430.85	3/4	156.45	3/4		3/4		3/4		3/4	
10	1,704.74	10	1,373.24	10	1,041.74	10	722.24	10	424.91	10	151.00	10		10		10		10	
1/4	1,697.84	1/4	1,366.33	1/4	1,034.83	1/4	715.83	1/4	418.97	1/4	145.55	1/4		1/4		1/4		1/4	
1/2	1,690.93	1/2	1,359.43	1/2	1,027.92	1/2	709.43	1/2	413.03	1/2	140.10	1/2		1/2		1/2		1/2	
3/4	1,684.02	3/4	1,352.52	3/4	1,021.02	3/4	703.02	3/4	407.08	3/4	134.65	3/4		3/4		3/4		3/4	
11	1,677.12	11	1,345.61	11	1,014.13	11	696.66	11	401.18	11	129.24	11		11		11		11	
1/4	1,670.21	1/4	1,338.71	1/4	1,007.25	1/4	690.29	1/4	395.28	1/4	123.83	1/4		1/4		1/4		1/4	
1/2	1,663.30	1/2	1,331.80	1/2	1,000.36	1/2	683.93	1/2	389.38	1/2	118.43	1/2		1/2		1/2		1/2	
3/4	1,656.40	3/4	1,324.89	3/4	993.47	3/4	677.56	3/4	383.48	3/4	113.02	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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







# BARGE "EMS 391"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'- 4 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	1,969.27	0	1,637.64	0	1,306.01	0	974.64	0	658.74	0	366.02	0	96.95	0		0			
1/4	1,962.36	1/4	1,630.73	1/4	1,299.10	1/4	967.79	1/4	652.38	1/4	360.16	1/4	91.58	1/4	1/4	1/4			
1/2	1,955.45	1/2	1,623.82	1/2	1,292.19	1/2	960.99	1/2	646.07	1/2	354.34	1/2	86.25	1/2	1/2	1/2			
3/4	1,948.54	3/4	1,616.91	3/4	1,285.28	3/4	954.18	3/4	639.76	3/4	348.52	3/4	80.92	3/4	3/4	3/4			
1	1,941.63	1	1,610.00	1	1,278.37	1	947.37	1	633.44	1	342.70	1	75.59	1	1	1			
1/4	1,934.73	1/4	1,603.09	1/4	1,271.46	1/4	940.57	1/4	627.13	1/4	336.88	1/4	70.26	1/4	1/4	1/4			
1/2	1,927.82	1/2	1,596.18	1/2	1,264.55	1/2	933.82	1/2	620.86	1/2	331.10	1/2	64.98	1/2	1/2	1/2			
3/4	1,920.91	3/4	1,589.28	3/4	1,257.64	3/4	927.06	3/4	614.58	3/4	325.32	3/4	59.69	3/4	3/4	3/4			
2	1,914.00	2	1,582.37	2	1,250.73	2	920.31	2	608.31	2	319.54	2	54.40	2	2	2			
1/4	1,907.09	1/4	1,575.46	1/4	1,243.83	1/4	913.56	1/4	602.04	1/4	313.76	1/4	49.11	1/4	1/4	1/4			
1/2	1,900.18	1/2	1,568.55	1/2	1,236.92	1/2	906.85	1/2	595.81	1/2	308.02	1/2	44.11	1/2	1/2	1/2			
3/4	1,893.27	3/4	1,561.64	3/4	1,230.01	3/4	900.14	3/4	589.58	3/4	302.28	3/4	39.11	3/4	3/4	3/4			
3	1,886.36	3	1,554.73	3	1,223.10	3	893.43	3	583.34	3	296.54	3	34.11	3	3	3			
1/4	1,879.45	1/4	1,547.82	1/4	1,216.19	1/4	886.72	1/4	577.11	1/4	290.80	1/4	29.11	1/4	1/4	1/4			
1/2	1,872.54	1/2	1,540.91	1/2	1,209.28	1/2	880.05	1/2	570.92	1/2	285.10	1/2	25.88	1/2	1/2	1/2			
3/4	1,865.64	3/4	1,534.00	3/4	1,202.37	3/4	873.38	3/4	564.73	3/4	279.40	3/4	22.65	3/4	3/4	3/4			
4	1,858.73	4	1,527.09	4	1,195.46	4	866.71	4	558.54	4	273.71	4	19.42	4	4	4			
1/4	1,851.82	1/4	1,520.19	1/4	1,188.55	1/4	860.04	1/4	552.35	1/4	268.01	1/4	16.19	1/4	1/4	1/4			
1/2	1,844.91	1/2	1,513.28	1/2	1,181.64	1/2	853.41	1/2	546.20	1/2	262.35	1/2		1/2	1/2	1/2			
3/4	1,838.00	3/4	1,506.37	3/4	1,174.74	3/4	846.79	3/4	540.05	3/4	256.69	3/4		3/4	3/4	3/4			
5	1,831.09	5	1,499.46	5	1,167.83	5	840.16	5	533.90	5	251.04	5		5	5	5			
1/4	1,824.18	1/4	1,492.55	1/4	1,160.92	1/4	833.54	1/4	527.75	1/4	245.38	1/4		1/4	1/4	1/4			
1/2	1,817.27	1/2	1,485.64	1/2	1,154.01	1/2	826.95	1/2	521.64	1/2	239.76	1/2		1/2	1/2	1/2			
3/4	1,810.36	3/4	1,478.73	3/4	1,147.10	3/4	820.37	3/4	515.54	3/4	234.15	3/4		3/4	3/4	3/4			
6	1,803.45	6	1,471.82	6	1,140.19	6	813.79	6	509.43	6	228.53	6		6	6	6			
1/4	1,796.55	1/4	1,464.91	1/4	1,133.28	1/4	807.20	1/4	503.32	1/4	222.92	1/4		1/4	1/4	1/4			
1/2	1,789.64	1/2	1,458.00	1/2	1,126.37	1/2	800.66	1/2	497.25	1/2	217.34	1/2		1/2	1/2	1/2			
3/4	1,782.73	3/4	1,451.10	3/4	1,119.46	3/4	794.11	3/4	491.18	3/4	211.77	3/4		3/4	3/4	3/4			
7	1,775.82	7	1,444.19	7	1,112.55	7	787.56	7	485.12	7	206.19	7		7	7	7			
1/4	1,768.91	1/4	1,437.28	1/4	1,105.65	1/4	781.02	1/4	479.05	1/4	200.62	1/4		1/4	1/4	1/4			
1/2	1,762.00	1/2	1,430.37	1/2	1,098.74	1/2	774.51	1/2	473.02	1/2	195.08	1/2		1/2	1/2	1/2			
3/4	1,755.09	3/4	1,423.46	3/4	1,091.83	3/4	768.01	3/4	467.00	3/4	189.55	3/4		3/4	3/4	3/4			
8	1,748.18	8	1,416.55	8	1,084.92	8	761.50	8	460.97	8	184.01	8		8	8	8			
1/4	1,741.27	1/4	1,409.64	1/4	1,078.01	1/4	754.99	1/4	454.94	1/4	178.48	1/4		1/4	1/4	1/4			
1/2	1,734.36	1/2	1,402.73	1/2	1,071.10	1/2	748.53	1/2	448.96	1/2	172.99	1/2		1/2	1/2	1/2			
3/4	1,727.46	3/4	1,395.82	3/4	1,064.19	3/4	742.06	3/4	442.97	3/4	167.49	3/4		3/4	3/4	3/4			
9	1,720.55	9	1,388.91	9	1,057.28	9	735.60	9	436.99	9	162.00	9		9	9	9			
1/4	1,713.64	1/4	1,382.01	1/4	1,050.37	1/4	729.13	1/4	431.00	1/4	156.51	1/4		1/4	1/4	1/4			
1/2	1,706.73	1/2	1,375.10	1/2	1,043.46	1/2	722.70	1/2	425.06	1/2	151.06	1/2		1/2	1/2	1/2			
3/4	1,699.82	3/4	1,368.19	3/4	1,036.56	3/4	716.26	3/4	419.11	3/4	145.61	3/4		3/4	3/4	3/4			
10	1,692.91	10	1,361.28	10	1,029.65	10	709.82	10	413.17	10	140.15	10		10	10	10			
1/4	1,686.00	1/4	1,354.37	1/4	1,022.74	1/4	703.39	1/4	407.22	1/4	134.70	1/4		1/4	1/4	1/4			
1/2	1,679.09	1/2	1,347.46	1/2	1,015.85	1/2	696.99	1/2	401.32	1/2	129.29	1/2		1/2	1/2	1/2			
3/4	1,672.18	3/4	1,340.55	3/4	1,008.96	3/4	690.60	3/4	395.42	3/4	123.88	3/4		3/4	3/4	3/4			
11	1,665.27	11	1,333.64	11	1,002.07	11	684.20	11	389.51	11	118.47	11		11	11	11			
1/4	1,658.37	1/4	1,326.73	1/4	995.18	1/4	677.80	1/4	383.61	1/4	113.06	1/4		1/4	1/4	1/4			
1/2	1,651.46	1/2	1,319.82	1/2	988.34	1/2	671.45	1/2	377.75	1/2	107.69	1/2		1/2	1/2	1/2			
3/4	1,644.55	3/4	1,312.92	3/4	981.49	3/4	665.09	3/4	371.89	3/4	102.32	3/4		3/4	3/4	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'- 4 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	2,461.68	0	2,073.19	0	1,684.70	0	1,296.21	0	907.71	0	534.20	0	146.05	0		0			
1/4	2,453.59	1/4	2,065.10	1/4	1,676.61	1/4	1,288.11	1/4	899.62	1/4	526.41	1/4	137.96	1/4		1/4		1/4	
1/2	2,445.50	1/2	2,057.00	1/2	1,668.51	1/2	1,280.02	1/2	891.83	1/2	518.32	1/2	129.86	1/2		1/2		1/2	
3/4	2,437.40	3/4	2,048.91	3/4	1,660.42	3/4	1,271.93	3/4	884.04	3/4	510.23	3/4	121.77	3/4		3/4		3/4	
1	2,429.31	1	2,040.82	1	1,652.32	1	1,263.83	1	876.26	1	502.14	1	113.68	1		1		1	
1/4	2,421.22	1/4	2,032.72	1/4	1,644.23	1/4	1,255.74	1/4	868.47	1/4	494.04	1/4	105.58	1/4		1/4		1/4	
1/2	2,413.12	1/2	2,024.63	1/2	1,636.14	1/2	1,247.64	1/2	860.68	1/2	485.95	1/2	97.49	1/2		1/2		1/2	
3/4	2,405.03	3/4	2,016.54	3/4	1,628.04	3/4	1,239.55	3/4	852.89	3/4	477.86	3/4	89.40	3/4		3/4		3/4	
2	2,396.94	2	2,008.44	2	1,619.95	2	1,231.46	2	845.11	2	469.76	2	81.31	2		2		2	
1/4	2,388.84	1/4	2,000.35	1/4	1,611.86	1/4	1,223.36	1/4	837.32	1/4	461.67	1/4	73.21	1/4		1/4		1/4	
1/2	2,380.75	1/2	1,992.26	1/2	1,603.76	1/2	1,215.27	1/2	829.54	1/2	453.58	1/2	65.11	1/2		1/2		1/2	
3/4	2,372.65	3/4	1,984.16	3/4	1,595.67	3/4	1,207.18	3/4	821.75	3/4	445.49	3/4	57.00	3/4		3/4		3/4	
3	2,364.56	3	1,976.07	3	1,587.58	3	1,199.08	3	813.97	3	437.39	3	49.80	3		3		3	
1/4	2,356.47	1/4	1,967.97	1/4	1,579.48	1/4	1,190.99	1/4	806.19	1/4	429.30	1/4	42.00	1/4		1/4		1/4	
1/2	2,348.37	1/2	1,959.88	1/2	1,571.39	1/2	1,182.90	1/2	798.42	1/2	421.21	1/2	36.22	1/2		1/2		1/2	
3/4	2,340.28	3/4	1,951.79	3/4	1,563.29	3/4	1,174.80	3/4	790.65	3/4	413.11	3/4	30.44	3/4		3/4		3/4	
4	2,332.19	4	1,943.69	4	1,555.20	4	1,166.71	4	782.88	4	405.02	4	24.66	4		4		4	
1/4	2,324.09	1/4	1,935.60	1/4	1,547.11	1/4	1,158.61	1/4	775.11	1/4	396.93	1/4	18.88	1/4		1/4		1/4	
1/2	2,316.00	1/2	1,927.51	1/2	1,539.01	1/2	1,150.52	1/2	767.33	1/2	388.84	1/2		1/2		1/2		1/2	
3/4	2,307.91	3/4	1,919.41	3/4	1,530.92	3/4	1,142.43	3/4	759.56	3/4	380.74	3/4		3/4		3/4		3/4	
5	2,299.81	5	1,911.32	5	1,522.83	5	1,134.33	5	751.79	5	372.65	5		5		5		5	
1/4	2,291.72	1/4	1,903.23	1/4	1,514.73	1/4	1,126.24	1/4	744.02	1/4	364.56	1/4		1/4		1/4		1/4	
1/2	2,283.63	1/2	1,895.13	1/2	1,506.64	1/2	1,118.15	1/2	736.25	1/2	356.46	1/2		1/2		1/2		1/2	
3/4	2,275.53	3/4	1,887.04	3/4	1,498.55	3/4	1,110.05	3/4	728.48	3/4	348.37	3/4		3/4		3/4		3/4	
6	2,267.44	6	1,878.95	6	1,490.45	6	1,101.96	6	720.71	6	340.28	6		6		6		6	
1/4	2,259.34	1/4	1,870.85	1/4	1,482.36	1/4	1,093.87	1/4	712.93	1/4	332.18	1/4		1/4		1/4		1/4	
1/2	2,251.25	1/2	1,862.76	1/2	1,474.27	1/2	1,085.77	1/2	705.17	1/2	324.09	1/2		1/2		1/2		1/2	
3/4	2,243.16	3/4	1,854.66	3/4	1,466.17	3/4	1,077.68	3/4	697.40	3/4	316.00	3/4		3/4		3/4		3/4	
7	2,235.06	7	1,846.57	7	1,458.08	7	1,069.59	7	689.63	7	307.91	7		7		7		7	
1/4	2,226.97	1/4	1,838.48	1/4	1,449.98	1/4	1,061.49	1/4	681.87	1/4	299.81	1/4		1/4		1/4		1/4	
1/2	2,218.88	1/2	1,830.38	1/2	1,441.89	1/2	1,053.40	1/2	674.10	1/2	291.72	1/2		1/2		1/2		1/2	
3/4	2,210.78	3/4	1,822.29	3/4	1,433.80	3/4	1,045.30	3/4	666.33	3/4	283.63	3/4		3/4		3/4		3/4	
8	2,202.69	8	1,814.20	8	1,425.70	8	1,037.21	8	658.56	8	275.53	8		8		8		8	
1/4	2,194.60	1/4	1,806.10	1/4	1,417.61	1/4	1,029.12	1/4	650.80	1/4	267.44	1/4		1/4		1/4		1/4	
1/2	2,186.50	1/2	1,798.01	1/2	1,409.52	1/2	1,021.02	1/2	643.03	1/2	259.35	1/2		1/2		1/2		1/2	
3/4	2,178.41	3/4	1,789.92	3/4	1,401.42	3/4	1,012.93	3/4	635.25	3/4	251.26	3/4		3/4		3/4		3/4	
9	2,170.31	9	1,781.82	9	1,393.33	9	1,004.84	9	627.48	9	243.16	9		9		9		9	
1/4	2,162.22	1/4	1,773.73	1/4	1,385.24	1/4	996.74	1/4	619.71	1/4	235.07	1/4		1/4		1/4		1/4	
1/2	2,154.13	1/2	1,765.63	1/2	1,377.14	1/2	988.65	1/2	611.94	1/2	226.98	1/2		1/2		1/2		1/2	
3/4	2,146.03	3/4	1,757.54	3/4	1,369.05	3/4	980.56	3/4	604.17	3/4	218.88	3/4		3/4		3/4		3/4	
10	2,137.94	10	1,749.45	10	1,360.95	10	972.46	10	596.40	10	210.79	10		10		10		10	
1/4	2,129.85	1/4	1,741.35	1/4	1,352.86	1/4	964.37	1/4	588.63	1/4	202.70	1/4		1/4		1/4		1/4	
1/2	2,121.75	1/2	1,733.26	1/2	1,344.77	1/2	956.27	1/2	580.85	1/2	194.61	1/2		1/2		1/2		1/2	
3/4	2,113.66	3/4	1,725.17	3/4	1,336.67	3/4	948.18	3/4	573.08	3/4	186.51	3/4		3/4		3/4		3/4	
11	2,105.57	11	1,717.07	11	1,328.58	11	940.09	11	565.31	11	178.42	11		11		11		11	
1/4	2,097.47	1/4	1,708.98	1/4	1,320.49	1/4	931.99	1/4	557.54	1/4	170.33	1/4		1/4		1/4		1/4	
1/2	2,089.38	1/2	1,700.89	1/2	1,312.39	1/2	923.90	1/2	549.76	1/2	162.23	1/2		1/2		1/2		1/2	
3/4	2,081.29	3/4	1,692.79	3/4	1,304.30	3/4	915.81	3/4	541.98	3/4	154.14	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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





# BARGE "EMS 391"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'- 4 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	2,476.59	0	2,088.10	0	1,699.61	0	1,311.12	0	922.62	0	534.50	0	146.04	0		0		0	
1/4	2,468.50	1/4	2,080.01	1/4	1,691.52	1/4	1,303.02	1/4	914.53	1/4	526.41	1/4	137.95	1/4		1/4		1/4	
1/2	2,460.41	1/2	2,071.91	1/2	1,683.42	1/2	1,294.93	1/2	906.44	1/2	518.32	1/2	129.86	1/2		1/2		1/2	
3/4	2,452.31	3/4	2,063.82	3/4	1,675.33	3/4	1,286.84	3/4	898.34	3/4	510.22	3/4	121.77	3/4		3/4		3/4	
1	2,444.22	1	2,055.73	1	1,667.23	1	1,278.74	1	890.25	1	502.13	1	113.67	1		1		1	
1/4	2,436.13	1/4	2,047.63	1/4	1,659.14	1/4	1,270.65	1/4	882.16	1/4	494.04	1/4	105.58	1/4		1/4		1/4	
1/2	2,428.03	1/2	2,039.54	1/2	1,651.05	1/2	1,262.55	1/2	874.06	1/2	485.95	1/2	97.49	1/2		1/2		1/2	
3/4	2,419.94	3/4	2,031.45	3/4	1,642.95	3/4	1,254.46	3/4	865.97	3/4	477.85	3/4	89.39	3/4		3/4		3/4	
2	2,411.85	2	2,023.35	2	1,634.86	2	1,246.37	2	857.87	2	469.76	2	81.30	2		2		2	
1/4	2,403.75	1/4	2,015.26	1/4	1,626.77	1/4	1,238.27	1/4	849.78	1/4	461.67	1/4	73.21	1/4		1/4		1/4	
1/2	2,395.66	1/2	2,007.17	1/2	1,618.67	1/2	1,230.18	1/2	841.69	1/2	453.57	1/2	65.10	1/2		1/2		1/2	
3/4	2,387.57	3/4	1,999.07	3/4	1,610.58	3/4	1,222.09	3/4	833.59	3/4	445.48	3/4	57.00	3/4		3/4		3/4	
3	2,379.47	3	1,990.98	3	1,602.49	3	1,213.99	3	825.50	3	437.39	3	49.80	3		3		3	
1/4	2,371.38	1/4	1,982.89	1/4	1,594.39	1/4	1,205.90	1/4	817.41	1/4	429.30	1/4	41.99	1/4		1/4		1/4	
1/2	2,363.28	1/2	1,974.79	1/2	1,586.30	1/2	1,197.81	1/2	809.32	1/2	421.20	1/2	36.21	1/2		1/2		1/2	
3/4	2,355.19	3/4	1,966.70	3/4	1,578.21	3/4	1,189.71	3/4	801.24	3/4	413.11	3/4	30.43	3/4		3/4		3/4	
4	2,347.10	4	1,958.60	4	1,570.11	4	1,181.62	4	793.16	4	405.02	4	24.65	4		4		4	
1/4	2,339.00	1/4	1,950.51	1/4	1,562.02	1/4	1,173.53	1/4	785.07	1/4	396.92	1/4	18.88	1/4		1/4		1/4	
1/2	2,330.91	1/2	1,942.42	1/2	1,553.92	1/2	1,165.43	1/2	776.99	1/2	388.83	1/2		1/2		1/2		1/2	
3/4	2,322.82	3/4	1,934.32	3/4	1,545.83	3/4	1,157.34	3/4	768.91	3/4	380.74	3/4		3/4		3/4		3/4	
5	2,314.72	5	1,926.23	5	1,537.74	5	1,149.24	5	760.83	5	372.65	5		5		5		5	
1/4	2,306.63	1/4	1,918.14	1/4	1,529.64	1/4	1,141.15	1/4	752.74	1/4	364.55	1/4		1/4		1/4		1/4	
1/2	2,298.54	1/2	1,910.04	1/2	1,521.55	1/2	1,133.06	1/2	744.66	1/2	356.46	1/2		1/2		1/2		1/2	
3/4	2,290.44	3/4	1,901.95	3/4	1,513.46	3/4	1,124.96	3/4	736.58	3/4	348.37	3/4		3/4		3/4		3/4	
6	2,282.35	6	1,893.86	6	1,505.36	6	1,116.87	6	728.49	6	340.27	6		6		6		6	
1/4	2,274.25	1/4	1,885.76	1/4	1,497.27	1/4	1,108.78	1/4	720.41	1/4	332.18	1/4		1/4		1/4		1/4	
1/2	2,266.16	1/2	1,877.67	1/2	1,489.18	1/2	1,100.68	1/2	712.33	1/2	324.09	1/2		1/2		1/2		1/2	
3/4	2,258.07	3/4	1,869.57	3/4	1,481.08	3/4	1,092.59	3/4	704.25	3/4	316.00	3/4		3/4		3/4		3/4	
7	2,249.97	7	1,861.48	7	1,472.99	7	1,084.50	7	696.17	7	307.90	7		7		7		7	
1/4	2,241.88	1/4	1,853.39	1/4	1,464.89	1/4	1,076.40	1/4	688.10	1/4	299.81	1/4		1/4		1/4		1/4	
1/2	2,233.79	1/2	1,845.29	1/2	1,456.80	1/2	1,068.31	1/2	680.02	1/2	291.72	1/2		1/2		1/2		1/2	
3/4	2,225.69	3/4	1,837.20	3/4	1,448.71	3/4	1,060.21	3/4	671.94	3/4	283.62	3/4		3/4		3/4		3/4	
8	2,217.60	8	1,829.11	8	1,440.61	8	1,052.12	8	663.86	8	275.53	8		8		8		8	
1/4	2,209.51	1/4	1,821.01	1/4	1,432.52	1/4	1,044.03	1/4	655.78	1/4	267.44	1/4		1/4		1/4		1/4	
1/2	2,201.41	1/2	1,812.92	1/2	1,424.43	1/2	1,035.93	1/2	647.70	1/2	259.35	1/2		1/2		1/2		1/2	
3/4	2,193.32	3/4	1,804.83	3/4	1,416.33	3/4	1,027.84	3/4	639.61	3/4	251.25	3/4		3/4		3/4		3/4	
9	2,185.23	9	1,796.73	9	1,408.24	9	1,019.75	9	631.53	9	243.16	9		9		9		9	
1/4	2,177.13	1/4	1,788.64	1/4	1,400.15	1/4	1,011.65	1/4	623.45	1/4	235.07	1/4		1/4		1/4		1/4	
1/2	2,169.04	1/2	1,780.55	1/2	1,392.05	1/2	1,003.56	1/2	615.36	1/2	226.97	1/2		1/2		1/2		1/2	
3/4	2,160.94	3/4	1,772.45	3/4	1,383.96	3/4	995.47	3/4	607.28	3/4	218.88	3/4		3/4		3/4		3/4	
10	2,152.85	10	1,764.36	10	1,375.87	10	987.37	10	599.20	10	210.79	10		10		10		10	
1/4	2,144.76	1/4	1,756.26	1/4	1,367.77	1/4	979.28	1/4	591.12	1/4	202.69	1/4		1/4		1/4		1/4	
1/2	2,136.66	1/2	1,748.17	1/2	1,359.68	1/2	971.19	1/2	583.03	1/2	194.60	1/2		1/2		1/2		1/2	
3/4	2,128.57	3/4	1,740.08	3/4	1,351.58	3/4	963.09	3/4	574.95	3/4	186.51	3/4		3/4		3/4		3/4	
11	2,120.48	11	1,731.98	11	1,343.49	11	955.00	11	566.87	11	178.42	11		11		11		11	
1/4	2,112.38	1/4	1,723.89	1/4	1,335.40	1/4	946.90	1/4	558.78	1/4	170.32	1/4		1/4		1/4		1/4	
1/2	2,104.29	1/2	1,715.80	1/2	1,327.30	1/2	938.81	1/2	550.69	1/2	162.23	1/2		1/2		1/2		1/2	
3/4	2,096.20	3/4	1,707.70	3/4	1,319.21	3/4	930.72	3/4	542.60	3/4	154.14	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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



BARGE "EMS 391"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-4 1/4"

Table with 18 columns (IN 0 FT. to 9 FT.) and multiple rows of capacity values for each height and gauge point (0, 1/4, 1/2, 3/4).

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL. CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK. CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE. GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "EMS 391"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'- 4 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	2,287.54	0	1,926.82	0	1,566.30	0	1,205.25	0	844.41	0	496.82	0	135.85	0		0			
1/4	2,280.02	1/4	1,919.32	1/4	1,558.78	1/4	1,197.73	1/4	836.90	1/4	489.57	1/4	128.32	1/4		1/4		1/4	
1/2	2,272.49	1/2	1,911.81	1/2	1,551.25	1/2	1,190.21	1/2	829.66	1/2	482.04	1/2	120.80	1/2		1/2		1/2	
3/4	2,264.97	3/4	1,904.31	3/4	1,543.73	3/4	1,182.69	3/4	822.43	3/4	474.52	3/4	113.27	3/4		3/4		3/4	
1	2,257.44	1	1,896.81	1	1,536.21	1	1,175.16	1	815.19	1	466.99	1	105.74	1		1		1	
1/4	2,249.92	1/4	1,889.31	1/4	1,528.69	1/4	1,167.64	1/4	807.96	1/4	459.47	1/4	98.22	1/4		1/4		1/4	
1/2	2,242.39	1/2	1,881.81	1/2	1,521.17	1/2	1,160.12	1/2	800.72	1/2	451.94	1/2	90.69	1/2		1/2		1/2	
3/4	2,234.87	3/4	1,874.30	3/4	1,513.64	3/4	1,152.60	3/4	793.49	3/4	444.41	3/4	83.17	3/4		3/4		3/4	
2	2,227.34	2	1,866.80	2	1,506.12	2	1,145.08	2	786.25	2	436.89	2	75.64	2		2		2	
1/4	2,219.82	1/4	1,859.30	1/4	1,498.60	1/4	1,137.55	1/4	779.02	1/4	429.36	1/4	68.11	1/4		1/4		1/4	
1/2	2,212.29	1/2	1,851.80	1/2	1,491.08	1/2	1,130.03	1/2	771.77	1/2	421.84	1/2	60.58	1/2		1/2		1/2	
3/4	2,204.77	3/4	1,844.29	3/4	1,483.56	3/4	1,122.51	3/4	764.53	3/4	414.31	3/4	53.06	3/4		3/4		3/4	
3	2,197.24	3	1,836.79	3	1,476.04	3	1,114.99	3	757.28	3	406.78	3	45.54	3		3		3	
1/4	2,189.71	1/4	1,829.29	1/4	1,468.51	1/4	1,107.47	1/4	750.04	1/4	399.26	1/4	38.01	1/4		1/4		1/4	
1/2	2,182.19	1/2	1,821.79	1/2	1,460.99	1/2	1,099.95	1/2	742.80	1/2	391.73	1/2	30.48	1/2		1/2		1/2	
3/4	2,174.66	3/4	1,814.29	3/4	1,453.47	3/4	1,092.42	3/4	735.57	3/4	384.21	3/4	22.96	3/4		3/4		3/4	
4	2,167.14	4	1,806.78	4	1,445.95	4	1,084.90	4	728.33	4	376.68	4	15.43	4		4		4	
1/4	2,159.61	1/4	1,799.28	1/4	1,438.43	1/4	1,077.38	1/4	721.10	1/4	369.15	1/4	7.90	1/4		1/4		1/4	
1/2	2,152.09	1/2	1,791.78	1/2	1,430.91	1/2	1,069.86	1/2	713.86	1/2	361.63	1/2	0.37	1/2		1/2		1/2	
3/4	2,144.56	3/4	1,784.28	3/4	1,423.38	3/4	1,062.34	3/4	706.63	3/4	354.10	3/4	-2.16	3/4		3/4		3/4	
5	2,137.04	5	1,776.78	5	1,415.86	5	1,054.82	5	699.39	5	346.58	5	-4.69	5		5		5	
1/4	2,129.51	1/4	1,769.27	1/4	1,408.34	1/4	1,047.29	1/4	692.16	1/4	339.05	1/4	-7.16	1/4		1/4		1/4	
1/2	2,121.99	1/2	1,761.77	1/2	1,400.82	1/2	1,039.77	1/2	684.92	1/2	331.52	1/2	-9.63	1/2		1/2		1/2	
3/4	2,114.46	3/4	1,754.27	3/4	1,393.30	3/4	1,032.25	3/4	677.69	3/4	324.00	3/4	-12.10	3/4		3/4		3/4	
6	2,106.94	6	1,746.77	6	1,385.77	6	1,024.73	6	670.45	6	316.47	6	-14.57	6		6		6	
1/4	2,099.41	1/4	1,739.27	1/4	1,378.25	1/4	1,017.21	1/4	663.22	1/4	308.95	1/4	-17.04	1/4		1/4		1/4	
1/2	2,091.90	1/2	1,731.75	1/2	1,370.73	1/2	1,009.69	1/2	655.98	1/2	301.42	1/2	-19.51	1/2		1/2		1/2	
3/4	2,084.39	3/4	1,724.24	3/4	1,363.21	3/4	1,002.18	3/4	648.75	3/4	293.89	3/4	-21.98	3/4		3/4		3/4	
7	2,076.87	7	1,716.73	7	1,355.69	7	994.67	7	641.52	7	286.37	7	-24.45	7		7		7	
1/4	2,069.36	1/4	1,709.21	1/4	1,348.17	1/4	987.15	1/4	634.29	1/4	278.84	1/4	-26.92	1/4		1/4		1/4	
1/2	2,061.86	1/2	1,701.69	1/2	1,340.64	1/2	979.64	1/2	627.06	1/2	271.32	1/2	-29.39	1/2		1/2		1/2	
3/4	2,054.35	3/4	1,694.17	3/4	1,333.12	3/4	972.13	3/4	619.83	3/4	263.79	3/4	-31.86	3/4		3/4		3/4	
8	2,046.85	8	1,686.65	8	1,325.60	8	964.62	8	612.60	8	256.26	8	-34.33	8		8		8	
1/4	2,039.35	1/4	1,679.12	1/4	1,318.08	1/4	957.10	1/4	605.37	1/4	248.74	1/4	-36.80	1/4		1/4		1/4	
1/2	2,031.85	1/2	1,671.60	1/2	1,310.56	1/2	949.59	1/2	598.14	1/2	241.21	1/2	-39.27	1/2		1/2		1/2	
3/4	2,024.35	3/4	1,664.08	3/4	1,303.03	3/4	942.08	3/4	590.90	3/4	233.69	3/4	-41.74	3/4		3/4		3/4	
9	2,016.84	9	1,656.56	9	1,295.51	9	934.57	9	583.67	9	226.16	9	-44.21	9		9		9	
1/4	2,009.34	1/4	1,649.04	1/4	1,287.99	1/4	927.05	1/4	576.43	1/4	218.63	1/4	-46.68	1/4		1/4		1/4	
1/2	2,001.84	1/2	1,641.52	1/2	1,280.47	1/2	919.54	1/2	569.20	1/2	211.11	1/2	-49.15	1/2		1/2		1/2	
3/4	1,994.34	3/4	1,633.99	3/4	1,272.95	3/4	912.03	3/4	561.96	3/4	203.58	3/4	-51.62	3/4		3/4		3/4	
10	1,986.83	10	1,626.47	10	1,265.43	10	904.51	10	554.73	10	196.06	10	-54.09	10		10		10	
1/4	1,979.33	1/4	1,618.95	1/4	1,257.90	1/4	897.00	1/4	547.49	1/4	188.53	1/4	-56.56	1/4		1/4		1/4	
1/2	1,971.83	1/2	1,611.43	1/2	1,250.38	1/2	889.49	1/2	540.26	1/2	181.00	1/2	-59.03	1/2		1/2		1/2	
3/4	1,964.33	3/4	1,603.91	3/4	1,242.86	3/4	881.98	3/4	533.02	3/4	173.48	3/4	-61.50	3/4		3/4		3/4	
11	1,956.83	11	1,596.38	11	1,235.34	11	874.46	11	525.79	11	165.95	11	-63.97	11		11		11	
1/4	1,949.32	1/4	1,588.86	1/4	1,227.82	1/4	866.95	1/4	518.55	1/4	158.43	1/4	-66.44	1/4		1/4		1/4	
1/2	1,941.82	1/2	1,581.34	1/2	1,220.29	1/2	859.44	1/2	511.31	1/2	150.90	1/2	-68.91	1/2		1/2		1/2	
3/4	1,934.32	3/4	1,573.82	3/4	1,212.77	3/4	851.92	3/4	504.06	3/4	143.37	3/4	-71.38	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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







# BARGE "EMS 391"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'- 4 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	2,291.41	0	1,932.36	0	1,573.99	0	1,213.56	0	853.12	0	503.27	0	143.16	0		0			
1/4	2,283.90	1/4	1,924.92	1/4	1,566.48	1/4	1,206.05	1/4	845.62	1/4	495.98	1/4	135.65	1/4	1/4	1/4			
1/2	2,276.38	1/2	1,917.49	1/2	1,558.97	1/2	1,198.54	1/2	838.11	1/2	488.70	1/2	128.14	1/2	1/2	1/2			
3/4	2,268.87	3/4	1,910.05	3/4	1,551.46	3/4	1,191.03	3/4	830.82	3/4	481.19	3/4	120.62	3/4	3/4	3/4			
1	2,261.36	1	1,902.62	1	1,543.95	1	1,183.52	1	823.53	1	473.67	1	113.11	1	1	1			
1/4	2,253.85	1/4	1,895.18	1/4	1,536.44	1/4	1,176.01	1/4	816.25	1/4	466.16	1/4	105.60	1/4	1/4	1/4			
1/2	2,246.33	1/2	1,887.74	1/2	1,528.93	1/2	1,168.50	1/2	808.96	1/2	458.65	1/2	98.09	1/2	1/2	1/2			
3/4	2,238.82	3/4	1,880.31	3/4	1,521.43	3/4	1,160.99	3/4	801.67	3/4	451.14	3/4	90.58	3/4	3/4	3/4			
2	2,231.31	2	1,872.87	2	1,513.92	2	1,153.48	2	794.38	2	443.63	2	83.07	2	2	2			
1/4	2,223.80	1/4	1,865.44	1/4	1,506.41	1/4	1,145.98	1/4	787.10	1/4	436.12	1/4	75.55	1/4	1/4	1/4			
1/2	2,216.28	1/2	1,858.00	1/2	1,498.90	1/2	1,138.47	1/2	779.81	1/2	428.60	1/2	68.04	1/2	1/2	1/2			
3/4	2,208.77	3/4	1,850.57	3/4	1,491.39	3/4	1,130.96	3/4	772.52	3/4	421.09	3/4	60.80	3/4	3/4	3/4			
3	2,201.26	3	1,843.13	3	1,483.88	3	1,123.45	3	765.23	3	413.58	3	53.56	3	3	3			
1/4	2,193.75	1/4	1,835.70	1/4	1,476.37	1/4	1,115.94	1/4	757.95	1/4	406.07	1/4	46.31	1/4	1/4	1/4			
1/2	2,186.24	1/2	1,828.26	1/2	1,468.86	1/2	1,108.43	1/2	750.66	1/2	398.56	1/2	39.07	1/2	1/2	1/2			
3/4	2,178.72	3/4	1,820.83	3/4	1,461.35	3/4	1,100.92	3/4	743.38	3/4	391.04	3/4	33.70	3/4	3/4	3/4			
4	2,171.21	4	1,813.39	4	1,453.84	4	1,093.41	4	736.11	4	383.53	4	28.32	4	4	4			
1/4	2,163.70	1/4	1,805.96	1/4	1,446.34	1/4	1,085.90	1/4	728.83	1/4	376.02	1/4	22.95	1/4	1/4	1/4			
1/2	2,156.19	1/2	1,798.52	1/2	1,438.83	1/2	1,078.39	1/2	721.55	1/2	368.51	1/2	17.58	1/2	1/2	1/2			
3/4	2,148.67	3/4	1,791.09	3/4	1,431.32	3/4	1,070.89	3/4	714.28	3/4	361.00	3/4		3/4	3/4	3/4			
5	2,141.16	5	1,783.65	5	1,423.81	5	1,063.38	5	707.00	5	353.49	5		5	5	5			
1/4	2,133.65	1/4	1,776.22	1/4	1,416.30	1/4	1,055.87	1/4	699.72	1/4	345.97	1/4		1/4	1/4	1/4			
1/2	2,126.14	1/2	1,768.78	1/2	1,408.79	1/2	1,048.36	1/2	692.45	1/2	338.46	1/2		1/2	1/2	1/2			
3/4	2,118.63	3/4	1,761.34	3/4	1,401.28	3/4	1,040.85	3/4	685.17	3/4	330.95	3/4		3/4	3/4	3/4			
6	2,111.11	6	1,753.91	6	1,393.77	6	1,033.34	6	677.89	6	323.44	6		6	6	6			
1/4	2,103.60	1/4	1,746.47	1/4	1,386.26	1/4	1,025.83	1/4	670.62	1/4	315.93	1/4		1/4	1/4	1/4			
1/2	2,096.09	1/2	1,739.04	1/2	1,378.75	1/2	1,018.32	1/2	663.34	1/2	308.42	1/2		1/2	1/2	1/2			
3/4	2,088.61	3/4	1,731.57	3/4	1,371.25	3/4	1,010.81	3/4	656.07	3/4	300.90	3/4		3/4	3/4	3/4			
7	2,081.14	7	1,724.09	7	1,363.74	7	1,003.30	7	648.79	7	293.39	7		7	7	7			
1/4	2,073.67	1/4	1,716.62	1/4	1,356.23	1/4	995.80	1/4	641.52	1/4	285.88	1/4		1/4	1/4	1/4			
1/2	2,066.19	1/2	1,709.15	1/2	1,348.72	1/2	988.29	1/2	634.25	1/2	278.37	1/2		1/2	1/2	1/2			
3/4	2,058.76	3/4	1,701.64	3/4	1,341.21	3/4	980.78	3/4	626.98	3/4	270.86	3/4		3/4	3/4	3/4			
8	2,051.32	8	1,694.13	8	1,333.70	8	973.27	8	619.71	8	263.35	8		8	8	8			
1/4	2,043.89	1/4	1,686.62	1/4	1,326.19	1/4	965.76	1/4	612.43	1/4	255.83	1/4		1/4	1/4	1/4			
1/2	2,036.45	1/2	1,679.11	1/2	1,318.68	1/2	958.25	1/2	605.16	1/2	248.32	1/2		1/2	1/2	1/2			
3/4	2,029.02	3/4	1,671.61	3/4	1,311.17	3/4	950.74	3/4	597.88	3/4	240.81	3/4		3/4	3/4	3/4			
9	2,021.58	9	1,664.10	9	1,303.66	9	943.23	9	590.61	9	233.30	9		9	9	9			
1/4	2,014.14	1/4	1,656.59	1/4	1,296.16	1/4	935.72	1/4	583.33	1/4	225.79	1/4		1/4	1/4	1/4			
1/2	2,006.71	1/2	1,649.08	1/2	1,288.65	1/2	928.21	1/2	576.05	1/2	218.28	1/2		1/2	1/2	1/2			
3/4	1,999.27	3/4	1,641.57	3/4	1,281.14	3/4	920.71	3/4	568.78	3/4	210.76	3/4		3/4	3/4	3/4			
10	1,991.84	10	1,634.06	10	1,273.63	10	913.20	10	561.50	10	203.25	10		10	10	10			
1/4	1,984.40	1/4	1,626.55	1/4	1,266.12	1/4	905.69	1/4	554.22	1/4	195.74	1/4		1/4	1/4	1/4			
1/2	1,976.97	1/2	1,619.04	1/2	1,258.61	1/2	898.18	1/2	546.95	1/2	188.23	1/2		1/2	1/2	1/2			
3/4	1,969.53	3/4	1,611.53	3/4	1,251.10	3/4	890.67	3/4	539.67	3/4	180.72	3/4		3/4	3/4	3/4			
11	1,962.10	11	1,604.02	11	1,243.59	11	883.16	11	532.39	11	173.21	11		11	11	11			
1/4	1,954.66	1/4	1,596.52	1/4	1,236.08	1/4	875.65	1/4	525.12	1/4	165.69	1/4		1/4	1/4	1/4			
1/2	1,947.23	1/2	1,589.01	1/2	1,228.57	1/2	868.14	1/2	517.84	1/2	158.18	1/2		1/2	1/2	1/2			
3/4	1,939.79	3/4	1,581.50	3/4	1,221.07	3/4	860.63	3/4	510.55	3/4	150.67	3/4		3/4	3/4	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/01/2015 SW  
CALCULATED: 04/01/2015 CL  
PRINTED: 04/02/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2015

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