



BARGE "EMS 3050"

ULLAGE TRIM TABLE (HERMETIC)

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

(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 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 231'-06"

September 17, 2014

PRECISION MEASUREMENT
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<http://www.pmacorp.net>



BARGE "EMS 3050"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	206,607	0	194,711	0	181,728	0	167,939	0	153,983	0	140,028	0	126,088	0	112,110	0	98,161
1/4		1/4	206,430	1/4	194,450	1/4	181,447	1/4	167,848	1/4	153,892	1/4	139,736	1/4	125,777	1/4	111,819	1/4	97,880
1/2		1/2	206,253	1/2	194,189	1/2	181,187	1/2	167,368	1/2	153,401	1/2	139,446	1/2	125,488	1/2	111,528	1/2	97,570
3/4		3/4	206,018	3/4	193,927	3/4	180,886	3/4	167,067	3/4	153,110	3/4	139,184	3/4	125,188	3/4	111,237	3/4	97,279
1		1	205,783	1	193,686	1	180,608	1	166,776	1	152,820	1	138,863	1	124,905	1	110,948	1	96,988
1 1/4		1 1/4	205,548	1 1/4	193,403	1 1/4	180,323	1 1/4	166,485	1 1/4	152,529	1 1/4	138,672	1 1/4	124,814	1 1/4	110,858	1 1/4	96,897
1 1/2		1 1/2	205,313	1 1/2	193,141	1 1/2	180,042	1 1/2	166,195	1 1/2	152,238	1 1/2	138,282	1 1/2	124,323	1 1/2	110,385	1 1/2	96,408
1 3/4		1 3/4	205,070	1 3/4	192,878	1 3/4	179,760	1 3/4	165,904	1 3/4	151,947	1 3/4	137,991	1 3/4	124,032	1 3/4	110,074	1 3/4	96,116
2		2	204,826	2	192,614	2	179,477	2	165,613	2	151,657	2	137,700	2	123,742	2	109,783	2	95,825
2 1/4		2 1/4	204,583	2 1/4	192,351	2 1/4	179,194	2 1/4	165,322	2 1/4	151,366	2 1/4	137,409	2 1/4	123,481	2 1/4	109,492	2 1/4	95,534
2 1/2		2 1/2	204,340	2 1/2	192,087	2 1/2	178,912	2 1/2	165,032	2 1/2	151,075	2 1/2	137,118	2 1/2	123,180	2 1/2	109,202	2 1/2	95,243
2 3/4		2 3/4	204,096	2 3/4	191,822	2 3/4	178,628	2 3/4	164,741	2 3/4	150,784	2 3/4	136,828	2 3/4	122,869	2 3/4	108,911	2 3/4	94,952
3		3	203,851	3	191,557	3	178,344	3	164,450	3	150,494	3	136,537	3	122,578	3	108,620	3	94,662
3 1/4		3 1/4	203,607	3 1/4	191,292	3 1/4	178,060	3 1/4	164,169	3 1/4	150,203	3 1/4	136,248	3 1/4	122,288	3 1/4	108,329	3 1/4	94,371
3 1/2		3 1/2	203,362	3 1/2	191,027	3 1/2	177,776	3 1/2	163,889	3 1/2	149,912	3 1/2	135,955	3 1/2	121,997	3 1/2	108,038	3 1/2	94,080
3 3/4		3 3/4	203,114	3 3/4	190,759	3 3/4	177,490	3 3/4	163,578	3 3/4	149,621	3 3/4	135,664	3 3/4	121,708	3 3/4	107,748	3 3/4	93,789
4		4	202,865	4	190,491	4	177,205	4	163,287	4	149,331	4	135,374	4	121,415	4	107,457	4	93,498
4 1/4		4 1/4	202,616	4 1/4	190,223	4 1/4	176,919	4 1/4	162,998	4 1/4	149,040	4 1/4	135,083	4 1/4	121,124	4 1/4	107,166	4 1/4	93,208
4 1/2		4 1/2	202,368	4 1/2	189,955	4 1/2	176,634	4 1/2	162,706	4 1/2	148,749	4 1/2	134,792	4 1/2	120,834	4 1/2	106,875	4 1/2	92,917
4 3/4		4 3/4	202,117	4 3/4	189,686	4 3/4	176,347	4 3/4	162,415	4 3/4	148,458	4 3/4	134,501	4 3/4	120,543	4 3/4	106,584	4 3/4	92,626
5		5	201,867	5	189,416	5	176,060	5	162,124	5	148,168	5	134,210	5	120,252	5	106,294	5	92,335
5 1/4		5 1/4	201,616	5 1/4	189,147	5 1/4	175,773	5 1/4	161,833	5 1/4	147,877	5 1/4	133,920	5 1/4	119,961	5 1/4	106,003	5 1/4	92,044
5 1/2		5 1/2	201,366	5 1/2	188,877	5 1/2	175,486	5 1/2	161,542	5 1/2	147,586	5 1/2	133,629	5 1/2	119,670	5 1/2	105,712	5 1/2	91,754
5 3/4		5 3/4	201,114	5 3/4	188,608	5 3/4	175,197	5 3/4	161,252	5 3/4	147,295	5 3/4	133,338	5 3/4	119,380	5 3/4	105,421	5 3/4	91,463
6		6	200,882	6	188,335	6	174,909	6	160,961	6	147,005	6	133,047	6	119,089	6	105,130	6	91,172
6 1/4		6 1/4	200,610	6 1/4	188,064	6 1/4	174,621	6 1/4	160,670	6 1/4	146,714	6 1/4	132,756	6 1/4	118,798	6 1/4	104,840	6 1/4	90,881
6 1/2		6 1/2	200,358	6 1/2	187,793	6 1/2	174,332	6 1/2	160,379	6 1/2	146,423	6 1/2	132,468	6 1/2	118,507	6 1/2	104,549	6 1/2	90,590
6 3/4		6 3/4	200,104	6 3/4	187,521	6 3/4	174,042	6 3/4	160,089	6 3/4	146,132	6 3/4	132,175	6 3/4	118,216	6 3/4	104,258	6 3/4	90,300
7		7	199,851	7	187,248	7	173,752	7	159,798	7	145,842	7	131,884	7	117,928	7	103,967	7	90,009
7 1/4		7 1/4	199,598	7 1/4	186,976	7 1/4	173,463	7 1/4	159,507	7 1/4	145,551	7 1/4	131,593	7 1/4	117,635	7 1/4	103,676	7 1/4	89,718
7 1/2		7 1/2	199,344	7 1/2	186,703	7 1/2	173,173	7 1/2	159,216	7 1/2	145,260	7 1/2	131,302	7 1/2	117,344	7 1/2	103,386	7 1/2	89,427
7 3/4		7 3/4	199,089	7 3/4	186,429	7 3/4	172,882	7 3/4	158,928	7 3/4	144,969	7 3/4	131,012	7 3/4	117,053	7 3/4	103,095	7 3/4	89,138
8		8	198,835	8	186,155	8	172,591	8	158,635	8	144,678	8	130,721	8	116,762	8	102,804	8	88,845
8 1/4		8 1/4	198,580	8 1/4	185,881	8 1/4	172,301	8 1/4	158,344	8 1/4	144,388	8 1/4	130,430	8 1/4	116,472	8 1/4	102,513	8 1/4	88,555
8 1/2		8 1/2	198,325	8 1/2	185,608	8 1/2	172,010	8 1/2	158,053	8 1/2	144,097	8 1/2	130,139	8 1/2	116,181	8 1/2	102,222	8 1/2	88,264
8 3/4		8 3/4	198,069	8 3/4	185,332	8 3/4	171,719	8 3/4	157,763	8 3/4	143,806	8 3/4	129,848	8 3/4	115,890	8 3/4	101,932	8 3/4	87,973
9		9	197,812	9	185,057	9	171,428	9	157,472	9	143,515	9	129,588	9	115,599	9	101,641	9	87,682
9 1/4		9 1/4	197,556	9 1/4	184,781	9 1/4	171,138	9 1/4	157,181	9 1/4	143,225	9 1/4	129,287	9 1/4	115,308	9 1/4	101,350	9 1/4	87,391
9 1/2		9 1/2	197,300	9 1/2	184,506	9 1/2	170,847	9 1/2	156,890	9 1/2	142,934	9 1/2	128,978	9 1/2	115,018	9 1/2	101,059	9 1/2	87,101
9 3/4		9 3/4	197,042	9 3/4	184,229	9 3/4	170,558	9 3/4	156,600	9 3/4	142,643	9 3/4	128,685	9 3/4	114,727	9 3/4	100,768	9 3/4	86,810
10		10	196,784	10	183,952	10	170,266	10	156,309	10	142,352	10	128,394	10	114,438	10	100,478	10	86,519
10 1/4		10 1/4	196,527	10 1/4	183,676	10 1/4	169,974	10 1/4	156,018	10 1/4	142,062	10 1/4	128,104	10 1/4	114,145	10 1/4	100,187	10 1/4	86,228
10 1/2		10 1/2	196,269	10 1/2	183,399	10 1/2	169,684	10 1/2	155,727	10 1/2	141,771	10 1/2	127,813	10 1/2	113,854	10 1/2	99,896	10 1/2	85,937
10 3/4		10 3/4	196,010	10 3/4	183,121	10 3/4	169,393	10 3/4	155,437	10 3/4	141,480	10 3/4	127,522	10 3/4	113,563	10 3/4	99,605	10 3/4	85,647
11		11	195,750	11	182,842	11	169,102	11	155,148	11	141,189	11	127,231	11	113,273	11	99,314	11	85,358
11 1/4		11 1/4	195,491	11 1/4	182,564	11 1/4	168,811	11 1/4	154,855	11 1/4	140,899	11 1/4	126,940	11 1/4	112,982	11 1/4	99,024	11 1/4	85,065
11 1/2		11 1/2	195,232	11 1/2	182,286	11 1/2	168,521	11 1/2	154,564	11 1/2	140,608	11 1/2	126,650	11 1/2	112,691	11 1/2	98,733	11 1/2	84,774
11 3/4		11 3/4	194,971	11 3/4	182,006	11 3/4	168,230	11 3/4	154,274	11 3/4	140,317	11 3/4	126,359	11 3/4	112,400	11 3/4	98,442	11 3/4	84,483

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 34'-03" FORWARD OF AFT BULKHEAD

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BARGE "EMS 3050"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 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	84,193	0	70,234	0	56,276	0	42,340	0	28,925	0	16,453	0	5,004	0		0			
1/4	83,902	1/4	69,943	1/4	55,985	1/4	42,061	1/4	28,655	1/4	16,203	1/4	4,776	1/4		1/4			
1/2	83,611	1/2	69,653	1/2	55,694	1/2	41,781	1/2	28,386	1/2	15,954	1/2	4,549	1/2		1/2			
3/4	83,320	3/4	69,362	3/4	55,403	3/4	41,472	3/4	28,117	3/4	15,707	3/4	4,324	3/4		3/4			
1	83,029	1	69,071	1	55,113	1	41,183	1	27,849	1	15,459	1	4,099	1		1			
1 1/4	82,739	1 1/4	68,780	1 1/4	54,822	1 1/4	40,894	1 1/4	27,580	1 1/4	15,212	1 1/4	3,874	1 1/4		1 1/4			
1 1/2	82,448	1 1/2	68,489	1 1/2	54,531	1 1/2	40,604	1 1/2	27,311	1 1/2	14,964	1 1/2	3,649	1 1/2		1 1/2			
1 3/4	82,157	1 3/4	68,199	1 3/4	54,240	1 3/4	40,317	1 3/4	27,044	1 3/4	14,719	1 3/4	3,426	1 3/4		1 3/4			
2	81,866	2	67,908	2	53,949	2	40,030	2	26,777	2	14,473	2	3,204	2		2			
2 1/4	81,575	2 1/4	67,617	2 1/4	53,659	2 1/4	39,742	2 1/4	26,510	2 1/4	14,227	2 1/4	2,981	2 1/4		2 1/4			
2 1/2	81,286	2 1/2	67,326	2 1/2	53,368	2 1/2	39,456	2 1/2	26,243	2 1/2	13,982	2 1/2	2,759	2 1/2		2 1/2			
2 3/4	80,994	2 3/4	67,035	2 3/4	53,077	2 3/4	39,170	2 3/4	25,978	2 3/4	13,738	2 3/4	2,540	2 3/4		2 3/4			
3	80,703	3	66,745	3	52,786	3	38,886	3	25,713	3	13,494	3	2,321	3		3			
3 1/4	80,412	3 1/4	66,454	3 1/4	52,495	3 1/4	38,601	3 1/4	25,448	3 1/4	13,250	3 1/4	2,101	3 1/4		3 1/4			
3 1/2	80,121	3 1/2	66,163	3 1/2	52,205	3 1/2	38,316	3 1/2	25,182	3 1/2	13,006	3 1/2	1,882	3 1/2		3 1/2			
3 3/4	79,831	3 3/4	65,872	3 3/4	51,914	3 3/4	38,033	3 3/4	24,919	3 3/4	12,764	3 3/4	1,694	3 3/4		3 3/4			
4	79,540	4	65,581	4	51,623	4	37,750	4	24,656	4	12,522	4	1,506	4		4			
4 1/4	79,249	4 1/4	65,291	4 1/4	51,332	4 1/4	37,468	4 1/4	24,392	4 1/4	12,280	4 1/4	1,317	4 1/4		4 1/4			
4 1/2	78,958	4 1/2	65,000	4 1/2	51,041	4 1/2	37,186	4 1/2	24,129	4 1/2	12,038	4 1/2	1,129	4 1/2		4 1/2			
4 3/4	78,667	4 3/4	64,709	4 3/4	50,751	4 3/4	36,904	4 3/4	23,867	4 3/4	11,797	4 3/4	1,010	4 3/4		4 3/4			
5	78,377	5	64,418	5	50,460	5	36,623	5	23,605	5	11,557	5	891	5		5			
5 1/4	78,086	5 1/4	64,127	5 1/4	50,169	5 1/4	36,342	5 1/4	23,344	5 1/4	11,317	5 1/4	772	5 1/4		5 1/4			
5 1/2	77,795	5 1/2	63,837	5 1/2	49,878	5 1/2	36,061	5 1/2	23,082	5 1/2	11,076	5 1/2	653	5 1/2		5 1/2			
5 3/4	77,504	5 3/4	63,546	5 3/4	49,587	5 3/4	35,781	5 3/4	22,822	5 3/4	10,838	5 3/4		5 3/4		5 3/4			
6	77,213	6	63,255	6	49,297	6	35,502	6	22,562	6	10,599	6		6		6			
6 1/4	76,923	6 1/4	62,964	6 1/4	49,006	6 1/4	35,223	6 1/4	22,302	6 1/4	10,381	6 1/4		6 1/4		6 1/4			
6 1/2	76,632	6 1/2	62,673	6 1/2	48,716	6 1/2	34,944	6 1/2	22,042	6 1/2	10,122	6 1/2		6 1/2		6 1/2			
6 3/4	76,341	6 3/4	62,383	6 3/4	48,425	6 3/4	34,667	6 3/4	21,784	6 3/4	9,885	6 3/4		6 3/4		6 3/4			
7	76,050	7	62,092	7	48,135	7	34,389	7	21,526	7	9,649	7		7		7			
7 1/4	75,759	7 1/4	61,801	7 1/4	47,846	7 1/4	34,112	7 1/4	21,268	7 1/4	9,412	7 1/4		7 1/4		7 1/4			
7 1/2	75,469	7 1/2	61,510	7 1/2	47,556	7 1/2	33,836	7 1/2	21,010	7 1/2	9,175	7 1/2		7 1/2		7 1/2			
7 3/4	75,178	7 3/4	61,219	7 3/4	47,266	7 3/4	33,559	7 3/4	20,764	7 3/4	8,940	7 3/4		7 3/4		7 3/4			
8	74,887	8	60,929	8	46,976	8	33,283	8	20,497	8	8,705	8		8		8			
8 1/4	74,596	8 1/4	60,638	8 1/4	46,687	8 1/4	33,008	8 1/4	20,241	8 1/4	8,470	8 1/4		8 1/4		8 1/4			
8 1/2	74,305	8 1/2	60,347	8 1/2	46,397	8 1/2	32,732	8 1/2	19,986	8 1/2	8,235	8 1/2		8 1/2		8 1/2			
8 3/4	74,015	8 3/4	60,056	8 3/4	46,107	8 3/4	32,488	8 3/4	19,730	8 3/4	8,002	8 3/4		8 3/4		8 3/4			
9	73,724	9	59,765	9	45,817	9	32,184	9	19,475	9	7,789	9		9		9			
9 1/4	73,433	9 1/4	59,475	9 1/4	45,528	9 1/4	31,910	9 1/4	19,221	9 1/4	7,535	9 1/4		9 1/4		9 1/4			
9 1/2	73,142	9 1/2	59,184	9 1/2	45,238	9 1/2	31,636	9 1/2	18,968	9 1/2	7,302	9 1/2		9 1/2		9 1/2			
9 3/4	72,851	9 3/4	58,893	9 3/4	44,948	9 3/4	31,364	9 3/4	18,714	9 3/4	7,071	9 3/4		9 3/4		9 3/4			
10	72,561	10	58,602	10	44,658	10	31,092	10	18,461	10	6,839	10		10		10			
10 1/4	72,270	10 1/4	58,311	10 1/4	44,369	10 1/4	30,820	10 1/4	18,208	10 1/4	6,608	10 1/4		10 1/4		10 1/4			
10 1/2	71,979	10 1/2	58,021	10 1/2	44,079	10 1/2	30,548	10 1/2	17,955	10 1/2	6,377	10 1/2		10 1/2		10 1/2			
10 3/4	71,688	10 3/4	57,730	10 3/4	43,789	10 3/4	30,277	10 3/4	17,704	10 3/4	6,147	10 3/4		10 3/4		10 3/4			
11	71,397	11	57,439	11	43,499	11	30,006	11	17,453	11	5,917	11		11		11			
11 1/4	71,107	11 1/4	57,148	11 1/4	43,210	11 1/4	29,734	11 1/4	17,202	11 1/4	5,688	11 1/4		11 1/4		11 1/4			
11 1/2	70,816	11 1/2	56,857	11 1/2	42,920	11 1/2	29,483	11 1/2	16,951	11 1/2	5,458	11 1/2		11 1/2		11 1/2			
11 3/4	70,525	11 3/4	56,567	11 3/4	42,630	11 3/4	29,194	11 3/4	16,702	11 3/4	5,231	11 3/4		11 3/4		11 3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 9/17/2014 CL
CALCULATED: 09/17/2014 CL
PRINTED: 09/17/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "EMS 3050"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	206,264	0	194,188	0	181,187	0	167,366	0	153,416	0	139,466	0	125,514	0	111,563	0	97,612
1/4		1/4	206,019	1/4	193,828	1/4	180,886	1/4	167,074	1/4	153,126	1/4	139,176	1/4	125,224	1/4	111,273	1/4	97,322
1/2		1/2	205,784	1/2	193,584	1/2	180,605	1/2	166,783	1/2	152,834	1/2	138,885	1/2	124,933	1/2	110,982	1/2	97,031
3/4		3/4	205,549	3/4	193,349	3/4	180,324	3/4	166,493	3/4	152,544	3/4	138,594	3/4	124,643	3/4	110,692	3/4	96,790
1		1	205,314	1	193,140	1	180,043	1	166,202	1	152,263	1	138,303	1	124,352	1	110,401	1	96,480
1 1/4		1 1/4	205,071	1 1/4	192,876	1 1/4	179,781	1 1/4	165,912	1 1/4	151,982	1 1/4	138,012	1 1/4	124,081	1 1/4	110,110	1 1/4	96,159
1 1/2		1 1/2	204,828	1 1/2	192,612	1 1/2	179,478	1 1/2	165,621	1 1/2	151,672	1 1/2	137,722	1 1/2	123,771	1 1/2	109,820	1 1/2	95,889
1 3/4		1 3/4	204,584	1 3/4	192,349	1 3/4	179,198	1 3/4	165,330	1 3/4	151,381	1 3/4	137,431	1 3/4	123,480	1 3/4	109,529	1 3/4	95,678
2		2	204,341	2	192,086	2	178,913	2	165,040	2	151,091	2	137,140	2	123,189	2	109,238	2	95,287
2 1/4		2 1/4	204,097	2 1/4	191,820	2 1/4	178,629	2 1/4	164,749	2 1/4	150,800	2 1/4	136,850	2 1/4	122,899	2 1/4	108,948	2 1/4	94,997
2 1/2		2 1/2	203,852	2 1/2	191,555	2 1/2	178,346	2 1/2	164,469	2 1/2	150,509	2 1/2	136,569	2 1/2	122,609	2 1/2	108,657	2 1/2	94,708
2 3/4		2 3/4	203,607	2 3/4	191,290	2 3/4	178,061	2 3/4	164,188	2 3/4	150,219	2 3/4	136,268	2 3/4	122,317	2 3/4	108,366	2 3/4	94,416
3		3	203,363	3	191,026	3	177,777	3	163,877	3	149,928	3	135,978	3	122,027	3	108,076	3	94,126
3 1/4		3 1/4	203,114	3 1/4	190,758	3 1/4	177,492	3 1/4	163,587	3 1/4	149,638	3 1/4	135,687	3 1/4	121,736	3 1/4	107,785	3 1/4	93,834
3 1/2		3 1/2	202,865	3 1/2	190,490	3 1/2	177,208	3 1/2	163,296	3 1/2	149,347	3 1/2	135,398	3 1/2	121,446	3 1/2	107,494	3 1/2	93,543
3 3/4		3 3/4	202,617	3 3/4	190,222	3 3/4	176,921	3 3/4	163,006	3 3/4	149,056	3 3/4	135,106	3 3/4	121,155	3 3/4	107,204	3 3/4	93,253
4		4	202,368	4	189,954	4	176,638	4	162,715	4	148,788	4	134,815	4	120,884	4	106,913	4	92,962
4 1/4		4 1/4	202,117	4 1/4	189,684	4 1/4	176,349	4 1/4	162,424	4 1/4	148,475	4 1/4	134,525	4 1/4	120,573	4 1/4	106,622	4 1/4	92,671
4 1/2		4 1/2	201,867	4 1/2	189,416	4 1/2	176,062	4 1/2	162,134	4 1/2	148,184	4 1/2	134,234	4 1/2	120,283	4 1/2	106,332	4 1/2	92,381
4 3/4		4 3/4	201,616	4 3/4	189,146	4 3/4	175,776	4 3/4	161,843	4 3/4	147,894	4 3/4	133,943	4 3/4	119,992	4 3/4	106,041	4 3/4	92,090
5		5	201,365	5	188,876	5	175,488	5	161,552	5	147,603	5	133,653	5	119,702	5	105,751	5	91,799
5 1/4		5 1/4	201,113	5 1/4	188,605	5 1/4	175,200	5 1/4	161,262	5 1/4	147,313	5 1/4	133,362	5 1/4	119,411	5 1/4	105,460	5 1/4	91,509
5 1/2		5 1/2	200,861	5 1/2	188,334	5 1/2	174,912	5 1/2	160,971	5 1/2	147,022	5 1/2	133,071	5 1/2	119,120	5 1/2	105,169	5 1/2	91,218
5 3/4		5 3/4	200,609	5 3/4	188,063	5 3/4	174,624	5 3/4	160,681	5 3/4	146,731	5 3/4	132,781	5 3/4	118,830	5 3/4	104,879	5 3/4	90,928
6		6	200,357	6	187,792	6	174,335	6	160,390	6	146,441	6	132,490	6	118,539	6	104,588	6	90,637
6 1/4		6 1/4	200,104	6 1/4	187,519	6 1/4	174,048	6 1/4	160,099	6 1/4	146,150	6 1/4	132,199	6 1/4	118,248	6 1/4	104,297	6 1/4	90,346
6 1/2		6 1/2	199,850	6 1/2	187,247	6 1/2	173,756	6 1/2	159,809	6 1/2	145,860	6 1/2	131,909	6 1/2	117,958	6 1/2	104,007	6 1/2	90,056
6 3/4		6 3/4	199,597	6 3/4	186,975	6 3/4	173,466	6 3/4	159,518	6 3/4	145,569	6 3/4	131,618	6 3/4	117,667	6 3/4	103,716	6 3/4	89,765
7		7	199,344	7	186,702	7	173,177	7	159,228	7	145,278	7	131,327	7	117,376	7	103,425	7	89,474
7 1/4		7 1/4	199,089	7 1/4	186,428	7 1/4	172,888	7 1/4	158,937	7 1/4	144,988	7 1/4	131,037	7 1/4	117,086	7 1/4	103,135	7 1/4	89,184
7 1/2		7 1/2	198,834	7 1/2	186,154	7 1/2	172,595	7 1/2	158,648	7 1/2	144,697	7 1/2	130,748	7 1/2	116,795	7 1/2	102,844	7 1/2	88,893
7 3/4		7 3/4	198,579	7 3/4	185,881	7 3/4	172,305	7 3/4	158,356	7 3/4	144,407	7 3/4	130,456	7 3/4	116,504	7 3/4	102,553	7 3/4	88,602
8		8	198,324	8	185,607	8	172,014	8	158,065	8	144,116	8	130,165	8	116,214	8	102,263	8	88,312
8 1/4		8 1/4	198,068	8 1/4	185,331	8 1/4	171,724	8 1/4	157,775	8 1/4	143,825	8 1/4	129,874	8 1/4	115,923	8 1/4	101,972	8 1/4	88,021
8 1/2		8 1/2	197,811	8 1/2	185,056	8 1/2	171,433	8 1/2	157,484	8 1/2	143,535	8 1/2	129,584	8 1/2	115,632	8 1/2	101,681	8 1/2	87,730
8 3/4		8 3/4	197,555	8 3/4	184,781	8 3/4	171,143	8 3/4	157,193	8 3/4	143,244	8 3/4	129,293	8 3/4	115,342	8 3/4	101,391	8 3/4	87,440
9		9	197,299	9	184,506	9	170,852	9	156,903	9	142,954	9	129,002	9	115,051	9	101,100	9	87,149
9 1/4		9 1/4	197,041	9 1/4	184,228	9 1/4	170,561	9 1/4	156,612	9 1/4	142,663	9 1/4	128,712	9 1/4	114,761	9 1/4	100,810	9 1/4	86,858
9 1/2		9 1/2	196,783	9 1/2	183,952	9 1/2	170,271	9 1/2	156,322	9 1/2	142,372	9 1/2	128,421	9 1/2	114,470	9 1/2	100,519	9 1/2	86,568
9 3/4		9 3/4	196,525	9 3/4	183,675	9 3/4	169,980	9 3/4	156,031	9 3/4	142,082	9 3/4	128,130	9 3/4	114,179	9 3/4	100,228	9 3/4	86,277
10		10	196,268	10	183,399	10	169,690	10	155,740	10	141,791	10	127,840	10	113,889	10	99,938	10	85,987
10 1/4		10 1/4	196,008	10 1/4	183,120	10 1/4	169,399	10 1/4	155,450	10 1/4	141,500	10 1/4	127,549	10 1/4	113,598	10 1/4	99,647	10 1/4	85,696
10 1/2		10 1/2	195,749	10 1/2	182,842	10 1/2	169,108	10 1/2	155,159	10 1/2	141,210	10 1/2	127,258	10 1/2	113,307	10 1/2	99,356	10 1/2	85,405
10 3/4		10 3/4	195,490	10 3/4	182,564	10 3/4	168,818	10 3/4	154,868	10 3/4	140,919	10 3/4	126,968	10 3/4	113,017	10 3/4	99,065	10 3/4	85,115
11		11	195,231	11	182,288	11	168,527	11	154,578	11	140,629	11	126,677	11	112,728	11	98,775	11	84,824
11 1/4		11 1/4	194,970	11 1/4	182,006	11 1/4	168,237	11 1/4	154,287	11 1/4	140,338	11 1/4	126,386	11 1/4	112,435	11 1/4	98,484	11 1/4	84,533
11 1/2	206,608	11 1/2	194,709	11 1/2	181,727	11 1/2	167,946	11 1/2	153,997	11 1/2	140,047	11 1/2	126,086	11 1/2	112,145	11 1/2	98,194	11 1/2	84,243
11 3/4	206,431	11 3/4	194,449	11 3/4	181,447	11 3/4	167,655	11 3/4	153,708	11 3/4	139,787	11 3/4	125,805	11 3/4	111,854	11 3/4	97,903	11 3/4	83,952

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 34'-03" FORWARD OF AFT BULKHEAD

CERTIFIED COPY FOR THE ULLAGE TANK ONLY.

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

The Joerns



BARGE "EMS 3050"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 18'-05"

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	83,881	0	69,710	0	55,759	0	41,833	0	28,400	0	15,988	0	4,554	0		0			
1/4	83,371	1/4	69,420	1/4	55,489	1/4	41,543	1/4	28,131	1/4	15,719	1/4	4,328	1/4		1/4			
1/2	83,080	1/2	69,129	1/2	55,178	1/2	41,263	1/2	27,883	1/2	15,471	1/2	4,103	1/2		1/2			
3/4	82,789	3/4	68,838	3/4	54,887	3/4	40,984	3/4	27,594	3/4	15,224	3/4	3,878	3/4		3/4			
1	82,499	1	68,548	1	54,597	1	40,674	1	27,326	1	14,976	1	3,653	1		1			
1 1/4	82,208	1 1/4	68,257	1 1/4	54,308	1 1/4	40,386	1 1/4	27,088	1 1/4	14,731	1 1/4	3,430	1 1/4		1 1/4			
1 1/2	81,917	1 1/2	67,968	1 1/2	54,016	1 1/2	40,097	1 1/2	26,791	1 1/2	14,485	1 1/2	3,207	1 1/2		1 1/2			
3/2	81,627	3/2	67,678	3/2	53,725	3/2	39,809	3/2	26,524	3/2	14,239	3/2	2,985	3/2		3/2			
2	81,338	2	67,386	2	53,434	2	39,521	2	26,267	2	13,993	2	2,762	2		2			
2 1/4	81,048	2 1/4	67,094	2 1/4	53,143	2 1/4	39,236	2 1/4	25,992	2 1/4	13,749	2 1/4	2,543	2 1/4		2 1/4			
2 1/2	80,756	2 1/2	66,804	2 1/2	52,853	2 1/2	38,949	2 1/2	25,727	2 1/2	13,505	2 1/2	2,323	2 1/2		2 1/2			
3 1/4	80,464	3 1/4	66,513	3 1/4	52,562	3 1/4	38,663	3 1/4	25,482	3 1/4	13,261	3 1/4	2,104	3 1/4		3 1/4			
3	80,174	3	66,223	3	52,271	3	38,377	3	25,196	3	13,017	3	1,884	3		3			
3 1/4	79,883	3 1/4	65,932	3 1/4	51,981	3 1/4	38,093	3 1/4	24,933	3 1/4	12,775	3 1/4	1,696	3 1/4		3 1/4			
3 1/2	79,592	3 1/2	65,641	3 1/2	51,690	3 1/2	37,809	3 1/2	24,669	3 1/2	12,533	3 1/2	1,507	3 1/2		3 1/2			
3 3/4	79,302	3 3/4	65,351	3 3/4	51,400	3 3/4	37,525	3 3/4	24,406	3 3/4	12,290	3 3/4	1,319	3 3/4		3 3/4			
4	79,011	4	65,060	4	51,109	4	37,240	4	24,142	4	12,048	4	1,130	4		4			
4 1/4	78,720	4 1/4	64,769	4 1/4	50,818	4 1/4	36,958	4 1/4	23,881	4 1/4	11,808	4 1/4	1,011	4 1/4		4 1/4			
4 1/2	78,430	4 1/2	64,479	4 1/2	50,528	4 1/2	36,676	4 1/2	23,619	4 1/2	11,567	4 1/2	891	4 1/2		4 1/2			
4 3/4	78,139	4 3/4	64,188	4 3/4	50,237	4 3/4	36,393	4 3/4	23,357	4 3/4	11,327	4 3/4	772	4 3/4		4 3/4			
5	77,848	5	63,897	5	49,946	5	36,111	5	23,096	5	11,086	5	653	5		5			
5 1/4	77,558	5 1/4	63,607	5 1/4	49,656	5 1/4	35,831	5 1/4	22,838	5 1/4	10,848	5 1/4		5 1/4		5 1/4			
5 1/2	77,267	5 1/2	63,316	5 1/2	49,365	5 1/2	35,550	5 1/2	22,578	5 1/2	10,609	5 1/2		5 1/2		5 1/2			
5 3/4	76,978	5 3/4	63,025	5 3/4	49,074	5 3/4	35,270	5 3/4	22,318	5 3/4	10,370	5 3/4		5 3/4		5 3/4			
6	76,686	6	62,735	6	48,784	6	34,989	6	22,056	6	10,131	6		6		6			
6 1/4	76,395	6 1/4	62,444	6 1/4	48,494	6 1/4	34,711	6 1/4	21,798	6 1/4	9,895	6 1/4		6 1/4		6 1/4			
6 1/2	76,105	6 1/2	62,153	6 1/2	48,206	6 1/2	34,432	6 1/2	21,540	6 1/2	9,658	6 1/2		6 1/2		6 1/2			
6 3/4	75,814	6 3/4	61,863	6 3/4	47,915	6 3/4	34,153	6 3/4	21,282	6 3/4	9,421	6 3/4		6 3/4		6 3/4			
7	75,523	7	61,572	7	47,625	7	33,875	7	21,023	7	9,184	7		7		7			
7 1/4	75,233	7 1/4	61,282	7 1/4	47,336	7 1/4	33,598	7 1/4	20,767	7 1/4	8,949	7 1/4		7 1/4		7 1/4			
7 1/2	74,942	7 1/2	60,991	7 1/2	47,048	7 1/2	33,321	7 1/2	20,511	7 1/2	8,713	7 1/2		7 1/2		7 1/2			
7 3/4	74,651	7 3/4	60,700	7 3/4	46,756	7 3/4	33,044	7 3/4	20,254	7 3/4	8,478	7 3/4		7 3/4		7 3/4			
8	74,361	8	60,410	8	46,467	8	32,787	8	19,998	8	8,243	8		8		8			
8 1/4	74,070	8 1/4	60,119	8 1/4	46,177	8 1/4	32,491	8 1/4	19,743	8 1/4	8,010	8 1/4		8 1/4		8 1/4			
8 1/2	73,779	8 1/2	59,828	8 1/2	45,888	8 1/2	32,218	8 1/2	19,489	8 1/2	7,776	8 1/2		8 1/2		8 1/2			
8 3/4	73,489	8 3/4	59,538	8 3/4	45,598	8 3/4	31,941	8 3/4	19,234	8 3/4	7,543	8 3/4		8 3/4		8 3/4			
9	73,198	9	59,247	9	45,308	9	31,665	9	18,979	9	7,309	9		9		9			
9 1/4	72,907	9 1/4	58,956	9 1/4	45,019	9 1/4	31,392	9 1/4	18,727	9 1/4	7,078	9 1/4		9 1/4		9 1/4			
9 1/2	72,617	9 1/2	58,666	9 1/2	44,729	9 1/2	31,118	9 1/2	18,474	9 1/2	6,848	9 1/2		9 1/2		9 1/2			
9 3/4	72,328	9 3/4	58,376	9 3/4	44,440	9 3/4	30,848	9 3/4	18,221	9 3/4	6,615	9 3/4		9 3/4		9 3/4			
10	72,036	10	58,084	10	44,150	10	30,571	10	17,968	10	6,383	10		10		10			
10 1/4	71,746	10 1/4	57,794	10 1/4	43,860	10 1/4	30,299	10 1/4	17,717	10 1/4	6,153	10 1/4		10 1/4		10 1/4			
10 1/2	71,454	10 1/2	57,503	10 1/2	43,571	10 1/2	30,027	10 1/2	17,466	10 1/2	5,924	10 1/2		10 1/2		10 1/2			
10 3/4	71,164	10 3/4	57,212	10 3/4	43,281	10 3/4	29,755	10 3/4	17,215	10 3/4	5,694	10 3/4		10 3/4		10 3/4			
11	70,873	11	56,922	11	42,992	11	29,482	11	16,984	11	5,464	11		11		11			
11 1/4	70,582	11 1/4	56,631	11 1/4	42,702	11 1/4	29,212	11 1/4	16,714	11 1/4	5,237	11 1/4		11 1/4		11 1/4			
11 1/2	70,292	11 1/2	56,341	11 1/2	42,412	11 1/2	28,941	11 1/2	16,466	11 1/2	5,009	11 1/2		11 1/2		11 1/2			
11 3/4	70,001	11 3/4	56,050	11 3/4	42,123	11 3/4	28,671	11 3/4	16,216	11 3/4	4,781	11 3/4		11 3/4		11 3/4			

STRAPPED: 8/17/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 3050"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	234,426	0	219,282	0	203,164	0	186,836	0	170,516	0	154,196	0	137,874	0	121,553
1/4		1/4	248,038	1/4	234,120	1/4	218,936	1/4	202,814	1/4	186,488	1/4	170,176	1/4	153,856	1/4	137,534	1/4	121,213
1/2		1/2	247,828	1/2	233,816	1/2	218,608	1/2	202,474	1/2	186,166	1/2	169,836	1/2	153,516	1/2	137,194	1/2	120,873
3/4		3/4	247,621	3/4	233,511	3/4	218,481	3/4	202,134	3/4	185,816	3/4	169,496	3/4	153,176	3/4	136,864	3/4	120,633
1		1	247,348	1	233,204	1	217,962	1	201,794	1	185,476	1	169,166	1	152,836	1	136,514	1	120,193
1 1/4		1 1/4	247,071	1 1/4	232,898	1 1/4	217,623	1 1/4	201,464	1 1/4	185,136	1 1/4	168,816	1 1/4	152,496	1 1/4	136,174	1 1/4	119,863
1 1/2		1 1/2	246,796	1 1/2	232,591	1 1/2	217,296	1 1/2	201,114	1 1/2	184,796	1 1/2	168,476	1 1/2	152,156	1 1/2	135,834	1 1/2	119,513
3/4		3/4	246,521	3/4	232,285	3/4	216,966	3/4	200,774	3/4	184,466	3/4	168,136	3/4	151,816	3/4	135,494	3/4	119,173
2		2	246,237	2	231,976	2	216,636	2	200,434	2	184,116	2	167,796	2	151,476	2	135,164	2	118,833
1 1/4		1 1/4	245,963	1 1/4	231,668	1 1/4	216,306	1 1/4	200,094	1 1/4	183,776	1 1/4	167,466	1 1/4	151,136	1 1/4	134,814	1 1/4	118,493
1 1/2		1 1/2	245,688	1 1/2	231,360	1 1/2	215,974	1 1/2	199,764	1 1/2	183,436	1 1/2	167,116	1 1/2	150,796	1 1/2	134,474	1 1/2	118,163
3/4		3/4	245,384	3/4	231,052	3/4	215,644	3/4	199,414	3/4	183,096	3/4	166,776	3/4	150,456	3/4	134,134	3/4	117,813
3		3	245,098	3	230,742	3	215,312	3	199,074	3	182,756	3	166,436	3	150,116	3	133,794	3	117,473
1 1/4		1 1/4	244,812	1 1/4	230,432	1 1/4	214,980	1 1/4	198,734	1 1/4	182,416	1 1/4	166,096	1 1/4	149,776	1 1/4	133,454	1 1/4	117,133
1 1/2		1 1/2	244,528	1 1/2	230,122	1 1/2	214,647	1 1/2	198,394	1 1/2	182,076	1 1/2	165,766	1 1/2	149,436	1 1/2	133,114	1 1/2	116,793
3/4		3/4	244,240	3/4	229,812	3/4	214,315	3/4	198,054	3/4	181,736	3/4	165,416	3/4	149,096	3/4	132,774	3/4	116,463
4		4	243,949	4	229,499	4	213,981	4	197,714	4	181,396	4	165,076	4	148,756	4	132,434	4	116,113
1 1/4		1 1/4	243,658	1 1/4	229,185	1 1/4	213,648	1 1/4	197,374	1 1/4	181,056	1 1/4	164,736	1 1/4	148,416	1 1/4	132,094	1 1/4	115,773
1 1/2		1 1/2	243,367	1 1/2	228,872	1 1/2	213,314	1 1/2	197,034	1 1/2	180,716	1 1/2	164,396	1 1/2	148,076	1 1/2	131,764	1 1/2	115,433
3/4		3/4	243,076	3/4	228,569	3/4	212,980	3/4	196,694	3/4	180,376	3/4	164,066	3/4	147,736	3/4	131,414	3/4	115,093
5		5	242,783	5	228,243	5	212,644	5	196,364	5	180,036	5	163,716	5	147,396	5	131,074	5	114,753
1 1/4		1 1/4	242,490	1 1/4	227,928	1 1/4	212,309	1 1/4	196,014	1 1/4	179,696	1 1/4	163,376	1 1/4	147,066	1 1/4	130,734	1 1/4	114,412
1 1/2		1 1/2	242,197	1 1/2	227,613	1 1/2	211,973	1 1/2	195,674	1 1/2	179,356	1 1/2	163,036	1 1/2	146,716	1 1/2	130,393	1 1/2	114,072
3/4		3/4	241,904	3/4	227,298	3/4	211,638	3/4	195,336	3/4	179,016	3/4	162,696	3/4	146,376	3/4	130,053	3/4	113,732
6		6	241,609	6	226,981	6	211,300	6	194,996	6	178,676	6	162,366	6	146,034	6	129,713	6	113,392
1 1/4		1 1/4	241,315	1 1/4	226,664	1 1/4	210,963	1 1/4	194,656	1 1/4	178,336	1 1/4	162,016	1 1/4	145,694	1 1/4	129,373	1 1/4	113,052
1 1/2		1 1/2	241,020	1 1/2	226,347	1 1/2	210,628	1 1/2	194,316	1 1/2	177,996	1 1/2	161,676	1 1/2	145,364	1 1/2	129,033	1 1/2	112,712
3/4		3/4	240,726	3/4	226,030	3/4	210,289	3/4	193,976	3/4	177,666	3/4	161,336	3/4	145,014	3/4	128,693	3/4	112,372
7		7	240,429	7	225,711	7	209,960	7	193,636	7	177,316	7	160,996	7	144,674	7	128,363	7	112,032
1 1/4		1 1/4	240,133	1 1/4	225,393	1 1/4	209,611	1 1/4	193,296	1 1/4	176,976	1 1/4	160,656	1 1/4	144,334	1 1/4	128,013	1 1/4	111,692
1 1/2		1 1/2	239,836	1 1/2	225,074	1 1/2	209,272	1 1/2	192,966	1 1/2	176,636	1 1/2	160,316	1 1/2	143,994	1 1/2	127,673	1 1/2	111,352
3/4		3/4	239,540	3/4	224,766	3/4	208,933	3/4	192,616	3/4	176,296	3/4	159,976	3/4	143,664	3/4	127,333	3/4	111,012
8		8	239,242	8	224,436	8	208,593	8	192,276	8	175,956	8	159,636	8	143,314	8	126,993	8	110,672
1 1/4		1 1/4	238,944	1 1/4	224,116	1 1/4	208,263	1 1/4	191,936	1 1/4	175,616	1 1/4	159,296	1 1/4	142,974	1 1/4	126,663	1 1/4	110,332
1 1/2		1 1/2	238,646	1 1/2	223,794	1 1/2	207,913	1 1/2	191,596	1 1/2	175,276	1 1/2	158,966	1 1/2	142,634	1 1/2	126,313	1 1/2	109,992
3/4		3/4	238,347	3/4	223,474	3/4	207,574	3/4	191,266	3/4	174,936	3/4	158,616	3/4	142,294	3/4	125,973	3/4	109,652
9		9	238,048	9	223,162	9	207,234	9	190,916	9	174,596	9	158,276	9	141,954	9	125,633	9	109,312
1 1/4		1 1/4	237,748	1 1/4	222,830	1 1/4	206,894	1 1/4	190,576	1 1/4	174,266	1 1/4	157,936	1 1/4	141,614	1 1/4	125,293	1 1/4	108,972
1 1/2		1 1/2	237,448	1 1/2	222,508	1 1/2	206,564	1 1/2	190,236	1 1/2	173,916	1 1/2	157,606	1 1/2	141,274	1 1/2	124,953	1 1/2	108,632
3/4		3/4	237,148	3/4	222,186	3/4	206,214	3/4	189,896	3/4	173,576	3/4	157,266	3/4	140,934	3/4	124,613	3/4	108,292
10		10	236,847	10	221,882	10	205,874	10	189,566	10	173,236	10	156,916	10	140,594	10	124,273	10	107,952
1 1/4		1 1/4	236,546	1 1/4	221,538	1 1/4	205,534	1 1/4	189,216	1 1/4	172,896	1 1/4	156,576	1 1/4	140,264	1 1/4	123,933	1 1/4	107,612
1 1/2		1 1/2	236,244	1 1/2	221,216	1 1/2	205,194	1 1/2	188,876	1 1/2	172,566	1 1/2	156,236	1 1/2	139,914	1 1/2	123,593	1 1/2	107,272
3/4		3/4	235,943	3/4	220,891	3/4	204,864	3/4	188,536	3/4	172,216	3/4	155,896	3/4	139,574	3/4	123,253	3/4	106,932
11		11	235,639	11	220,566	11	204,514	11	188,196	11	171,876	11	155,566	11	139,234	11	122,913	11	106,592
1 1/4		1 1/4	235,338	1 1/4	220,240	1 1/4	204,174	1 1/4	187,866	1 1/4	171,536	1 1/4	155,216	1 1/4	138,894	1 1/4	122,573	1 1/4	106,252
1 1/2		1 1/2	235,033	1 1/2	219,916	1 1/2	203,834	1 1/2	187,516	1 1/2	171,196	1 1/2	154,876	1 1/2	138,564	1 1/2	122,233	1 1/2	105,912
3/4		3/4	234,730	3/4	219,589	3/4	203,494	3/4	187,176	3/4	170,856	3/4	154,536	3/4	138,214	3/4	121,893	3/4	105,572

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "EMS 3050"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 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	105,232	0	88,911	0	72,590	0	56,291	0	39,973	0	24,190	0	7,971	0		0			
1/4	104,892	1/4	88,571	1/4	72,250	1/4	55,952	1/4	39,633	1/4	23,854	1/4	7,632	1/4		1/4			
1/2	104,552	1/2	88,231	1/2	71,910	1/2	55,613	1/2	39,292	1/2	23,513	1/2	7,292	1/2		1/2			
3/4	104,212	3/4	87,891	3/4	71,570	3/4	55,274	3/4	38,952	3/4	23,171	3/4	6,953	3/4		3/4			
1	103,872	1	87,551	1	71,230	1	54,934	1	38,612	1	22,834	1	6,614	1		1			
1 1/4	103,532	1 1/4	87,211	1 1/4	70,890	1 1/4	54,594	1 1/4	38,272	1 1/4	22,493	1 1/4	6,275	1 1/4		1 1/4			
1 1/2	103,192	1 1/2	86,871	1 1/2	70,550	1 1/2	54,254	1 1/2	37,932	1 1/2	22,153	1 1/2	5,937	1 1/2		1 1/2			
3/2	102,852	3/2	86,531	3/2	70,210	3/2	53,914	3/2	37,592	3/2	21,813	3/2	5,598	3/2		3/2			
2	102,512	2	86,191	2	69,870	2	53,574	2	37,254	2	21,473	2	5,260	2		2			
2 1/4	102,172	2 1/4	85,851	2 1/4	69,530	2 1/4	53,234	2 1/4	36,915	2 1/4	21,133	2 1/4	4,922	2 1/4		2 1/4			
2 1/2	101,832	2 1/2	85,511	2 1/2	69,190	2 1/2	52,894	2 1/2	36,575	2 1/2	20,793	2 1/2	4,584	2 1/2		2 1/2			
3/2	101,492	3/2	85,171	3/2	68,850	3/2	52,554	3/2	36,235	3/2	20,453	3/2	4,247	3/2		3/2			
3	101,152	3	84,831	3	68,510	3	52,214	3	35,895	3	20,113	3	3,911	3		3			
3 1/4	100,812	3 1/4	84,491	3 1/4	68,170	3 1/4	51,874	3 1/4	35,555	3 1/4	19,773	3 1/4	3,575	3 1/4		3 1/4			
3 1/2	100,472	3 1/2	84,151	3 1/2	67,830	3 1/2	51,534	3 1/2	35,215	3 1/2	19,433	3 1/2	3,239	3 1/2		3 1/2			
4	100,132	4	83,811	4	67,490	4	51,193	4	34,875	4	19,093	4	2,903	4		4			
4 1/4	99,792	4 1/4	83,471	4 1/4	67,150	4 1/4	50,853	4 1/4	34,535	4 1/4	18,753	4 1/4	2,567	4 1/4		4 1/4			
4 1/2	99,452	4 1/2	83,130	4 1/2	66,810	4 1/2	50,513	4 1/2	34,195	4 1/2	18,413	4 1/2	2,231	4 1/2		4 1/2			
3/2	99,112	3/2	82,790	3/2	66,470	3/2	50,173	3/2	33,855	3/2	18,073	3/2	1,896	3/2		3/2			
5	98,771	5	82,450	5	66,129	5	49,833	5	33,515	5	17,733	5	1,560	5		5			
5 1/4	98,431	5 1/4	82,110	5 1/4	65,789	5 1/4	49,493	5 1/4	33,175	5 1/4	17,393	5 1/4	1,225	5 1/4		5 1/4			
5 1/2	98,091	5 1/2	81,770	5 1/2	65,449	5 1/2	49,153	5 1/2	32,835	5 1/2	17,053	5 1/2	890	5 1/2		5 1/2			
3/2	97,751	3/2	81,430	3/2	65,109	3/2	48,813	3/2	32,495	3/2	16,713	3/2	555	3/2		3/2			
6	97,411	6	81,090	6	64,769	6	48,473	6	32,155	6	16,373	6	220	6		6			
6 1/4	97,071	6 1/4	80,750	6 1/4	64,429	6 1/4	48,133	6 1/4	31,815	6 1/4	16,033	6 1/4		6 1/4		6 1/4			
6 1/2	96,731	6 1/2	80,410	6 1/2	64,089	6 1/2	47,793	6 1/2	31,475	6 1/2	15,693	6 1/2		6 1/2		6 1/2			
3/2	96,391	3/2	80,070	3/2	63,749	3/2	47,453	3/2	31,135	3/2	15,353	3/2		3/2		3/2			
7	96,051	7	79,730	7	63,409	7	47,113	7	30,795	7	15,013	7		7		7			
7 1/4	95,711	7 1/4	79,390	7 1/4	63,070	7 1/4	46,773	7 1/4	30,455	7 1/4	14,673	7 1/4		7 1/4		7 1/4			
7 1/2	95,371	7 1/2	79,050	7 1/2	62,731	7 1/2	46,433	7 1/2	30,115	7 1/2	14,333	7 1/2		7 1/2		7 1/2			
3/2	95,031	3/2	78,710	3/2	62,392	3/2	46,093	3/2	29,775	3/2	13,993	3/2		3/2		3/2			
8	94,691	8	78,370	8	62,053	8	45,753	8	29,435	8	13,653	8		8		8			
8 1/4	94,351	8 1/4	78,030	8 1/4	61,714	8 1/4	45,413	8 1/4	29,095	8 1/4	13,313	8 1/4		8 1/4		8 1/4			
8 1/2	94,011	8 1/2	77,690	8 1/2	61,375	8 1/2	45,073	8 1/2	28,755	8 1/2	12,973	8 1/2		8 1/2		8 1/2			
3/2	93,671	3/2	77,350	3/2	61,038	3/2	44,733	3/2	28,415	3/2	12,633	3/2		3/2		3/2			
9	93,331	9	77,010	9	60,697	9	44,393	9	28,075	9	12,293	9		9		9			
9 1/4	92,991	9 1/4	76,670	9 1/4	60,358	9 1/4	44,053	9 1/4	27,735	9 1/4	11,953	9 1/4		9 1/4		9 1/4			
9 1/2	92,651	9 1/2	76,330	9 1/2	60,019	9 1/2	43,713	9 1/2	27,395	9 1/2	11,613	9 1/2		9 1/2		9 1/2			
3/2	92,311	3/2	75,990	3/2	59,680	3/2	43,373	3/2	27,055	3/2	11,273	3/2		3/2		3/2			
10	91,971	10	75,650	10	59,342	10	43,033	10	26,715	10	10,933	10		10		10			
10 1/4	91,631	10 1/4	75,310	10 1/4	59,003	10 1/4	42,693	10 1/4	26,375	10 1/4	10,593	10 1/4		10 1/4		10 1/4			
10 1/2	91,291	10 1/2	74,970	10 1/2	58,664	10 1/2	42,353	10 1/2	26,035	10 1/2	10,253	10 1/2		10 1/2		10 1/2			
3/2	90,951	3/2	74,630	3/2	58,325	3/2	42,013	3/2	25,695	3/2	9,913	3/2		3/2		3/2			
11	90,611	11	74,290	11	57,988	11	41,673	11	25,355	11	9,573	11		11		11			
11 1/4	90,271	11 1/4	73,950	11 1/4	57,647	11 1/4	41,333	11 1/4	25,015	11 1/4	9,233	11 1/4		11 1/4		11 1/4			
11 1/2	89,931	11 1/2	73,610	11 1/2	57,308	11 1/2	40,993	11 1/2	24,675	11 1/2	8,893	11 1/2		11 1/2		11 1/2			
3/2	89,591	3/2	73,270	3/2	56,969	3/2	40,653	3/2	24,335	3/2	8,553	3/2		3/2		3/2			
12	89,251	12	72,930	12	56,630	12	40,313	12	24,000	12	8,213	12		12		12			

STRAPPED: 09/17/2014 CL
CALCULATED: 09/17/2014 CL
PRINTED: 09/17/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

CERTIFIED CAPACITY FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 3050"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	235,149	0	219,983	0	203,868	0	187,542	0	171,216	0	154,888	0	138,560	0	122,231
1/4		1/4	248,758	1/4	234,844	1/4	219,656	1/4	203,528	1/4	187,202	1/4	170,876	1/4	154,548	1/4	138,219	1/4	121,891
1/2		1/2	248,551	1/2	234,639	1/2	219,329	1/2	203,188	1/2	186,862	1/2	170,536	1/2	154,208	1/2	137,879	1/2	121,551
3/4		3/4	248,344	3/4	234,234	3/4	219,002	3/4	202,848	3/4	186,522	3/4	170,196	3/4	153,867	3/4	137,539	3/4	121,211
1		1	248,069	1	233,928	1	218,673	1	202,508	1	186,182	1	169,856	1	153,527	1	137,199	1	120,871
1 1/4		1 1/4	247,794	1 1/4	233,621	1 1/4	218,344	1 1/4	202,168	1 1/4	185,842	1 1/4	169,515	1 1/4	153,187	1 1/4	136,859	1 1/4	120,530
1 1/2		1 1/2	247,519	1 1/2	233,314	1 1/2	218,015	1 1/2	201,828	1 1/2	185,502	1 1/2	169,175	1 1/2	152,847	1 1/2	136,519	1 1/2	120,190
3 1/4		3 1/4	247,244	3 1/4	233,008	3 1/4	217,686	3 1/4	201,488	3 1/4	185,181	3 1/4	168,835	3 1/4	152,507	3 1/4	136,178	3 1/4	119,850
2		2	246,969	2	232,700	2	217,355	2	201,147	2	184,821	2	168,495	2	152,167	2	135,838	2	119,510
1 1/4		1 1/4	246,675	1 1/4	232,391	1 1/4	217,025	1 1/4	200,807	1 1/4	184,481	1 1/4	168,155	1 1/4	151,826	1 1/4	135,498	1 1/4	119,170
1 1/2		1 1/2	246,391	1 1/2	232,083	1 1/2	216,694	1 1/2	200,487	1 1/2	184,141	1 1/2	167,815	1 1/2	151,488	1 1/2	135,158	1 1/2	118,829
3 1/4		3 1/4	246,106	3 1/4	231,775	3 1/4	216,364	3 1/4	200,127	3 1/4	183,801	3 1/4	167,474	3 1/4	151,148	3 1/4	134,818	3 1/4	118,489
3		3	245,820	3	231,465	3	216,031	3	199,787	3	183,481	3	167,134	3	150,806	3	134,478	3	118,149
1 1/4		1 1/4	245,534	1 1/4	231,155	1 1/4	215,699	1 1/4	199,447	1 1/4	183,121	1 1/4	166,794	1 1/4	150,468	1 1/4	134,137	1 1/4	117,809
1 1/2		1 1/2	245,248	1 1/2	230,845	1 1/2	215,367	1 1/2	199,107	1 1/2	182,781	1 1/2	166,464	1 1/2	150,128	1 1/2	133,797	1 1/2	117,469
3 1/4		3 1/4	244,962	3 1/4	230,535	3 1/4	215,034	3 1/4	198,767	3 1/4	182,440	3 1/4	166,114	3 1/4	149,785	3 1/4	133,457	3 1/4	117,129
4		4	244,672	4	230,222	4	214,701	4	198,426	4	182,100	4	165,774	4	149,445	4	133,117	4	116,788
1 1/4		1 1/4	244,381	1 1/4	229,908	1 1/4	214,367	1 1/4	198,086	1 1/4	181,760	1 1/4	165,433	1 1/4	149,105	1 1/4	132,777	1 1/4	116,448
1 1/2		1 1/2	244,090	1 1/2	229,595	1 1/2	214,033	1 1/2	197,748	1 1/2	181,420	1 1/2	165,093	1 1/2	148,765	1 1/2	132,438	1 1/2	116,108
3 1/4		3 1/4	243,799	3 1/4	229,282	3 1/4	213,699	3 1/4	197,406	3 1/4	181,080	3 1/4	164,763	3 1/4	148,425	3 1/4	132,096	3 1/4	115,768
5		5	243,508	5	228,966	5	213,363	5	197,068	5	180,740	5	164,413	5	148,084	5	131,758	5	115,428
1 1/4		1 1/4	243,213	1 1/4	228,651	1 1/4	213,027	1 1/4	196,726	1 1/4	180,400	1 1/4	164,073	1 1/4	147,744	1 1/4	131,416	1 1/4	115,088
1 1/2		1 1/2	242,920	1 1/2	228,336	1 1/2	212,692	1 1/2	196,388	1 1/2	180,069	1 1/2	163,733	1 1/2	147,404	1 1/2	131,076	1 1/2	114,747
3 1/4		3 1/4	242,627	3 1/4	228,020	3 1/4	212,358	3 1/4	196,046	3 1/4	179,719	3 1/4	163,392	3 1/4	147,064	3 1/4	130,738	3 1/4	114,407
6		6	242,333	6	227,703	6	212,019	6	195,705	6	179,379	6	163,052	6	146,724	6	130,395	6	114,067
1 1/4		1 1/4	242,038	1 1/4	227,386	1 1/4	211,681	1 1/4	195,365	1 1/4	179,039	1 1/4	162,712	1 1/4	146,384	1 1/4	130,055	1 1/4	113,727
1 1/2		1 1/2	241,743	1 1/2	227,069	1 1/2	211,344	1 1/2	195,025	1 1/2	178,699	1 1/2	162,372	1 1/2	146,043	1 1/2	129,715	1 1/2	113,387
3 1/4		3 1/4	241,449	3 1/4	226,752	3 1/4	211,006	3 1/4	194,685	3 1/4	178,369	3 1/4	162,032	3 1/4	145,703	3 1/4	129,375	3 1/4	113,047
7		7	241,152	7	226,434	7	210,667	7	194,345	7	178,019	7	161,691	7	145,363	7	129,035	7	112,706
1 1/4		1 1/4	240,856	1 1/4	226,115	1 1/4	210,328	1 1/4	194,005	1 1/4	177,679	1 1/4	161,351	1 1/4	145,023	1 1/4	128,695	1 1/4	112,366
1 1/2		1 1/2	240,559	1 1/2	225,796	1 1/2	209,989	1 1/2	193,665	1 1/2	177,338	1 1/2	161,011	1 1/2	144,683	1 1/2	128,354	1 1/2	112,028
3 1/4		3 1/4	240,263	3 1/4	225,478	3 1/4	209,650	3 1/4	193,325	3 1/4	176,958	3 1/4	160,671	3 1/4	144,343	3 1/4	128,014	3 1/4	111,688
8		8	239,965	8	225,157	8	209,310	8	192,984	8	176,658	8	160,331	8	144,002	8	127,674	8	111,346
1 1/4		1 1/4	239,667	1 1/4	224,837	1 1/4	208,970	1 1/4	192,644	1 1/4	176,318	1 1/4	159,991	1 1/4	143,662	1 1/4	127,334	1 1/4	111,005
1 1/2		1 1/2	239,369	1 1/2	224,516	1 1/2	208,630	1 1/2	192,304	1 1/2	175,978	1 1/2	159,650	1 1/2	143,322	1 1/2	126,994	1 1/2	110,665
3 1/4		3 1/4	239,071	3 1/4	224,196	3 1/4	208,290	3 1/4	191,964	3 1/4	175,638	3 1/4	159,310	3 1/4	142,982	3 1/4	126,653	3 1/4	110,325
9		9	238,771	9	223,874	9	207,950	9	191,624	9	175,298	9	158,970	9	142,642	9	126,313	9	109,985
1 1/4		1 1/4	238,471	1 1/4	223,552	1 1/4	207,610	1 1/4	191,284	1 1/4	174,958	1 1/4	158,630	1 1/4	142,302	1 1/4	125,973	1 1/4	109,645
1 1/2		1 1/2	238,172	1 1/2	223,230	1 1/2	207,270	1 1/2	190,944	1 1/2	174,617	1 1/2	158,290	1 1/2	141,961	1 1/2	125,633	1 1/2	109,305
3 1/4		3 1/4	237,872	3 1/4	222,907	3 1/4	206,930	3 1/4	190,603	3 1/4	174,277	3 1/4	157,950	3 1/4	141,621	3 1/4	125,293	3 1/4	108,964
10		10	237,570	10	222,584	10	206,590	10	190,263	10	173,937	10	157,609	10	141,281	10	124,953	10	108,624
1 1/4		1 1/4	237,269	1 1/4	222,260	1 1/4	206,249	1 1/4	189,923	1 1/4	173,597	1 1/4	157,269	1 1/4	140,941	1 1/4	124,612	1 1/4	108,284
1 1/2		1 1/2	236,967	1 1/2	221,936	1 1/2	205,909	1 1/2	189,583	1 1/2	173,257	1 1/2	156,929	1 1/2	140,601	1 1/2	124,272	1 1/2	107,944
3 1/4		3 1/4	236,666	3 1/4	221,612	3 1/4	205,569	3 1/4	189,243	3 1/4	172,917	3 1/4	156,589	3 1/4	140,260	3 1/4	123,932	3 1/4	107,604
11		11	236,363	11	221,287	11	205,229	11	188,903	11	172,577	11	156,249	11	139,920	11	123,592	11	107,264
1 1/4		1 1/4	236,060	1 1/4	220,961	1 1/4	204,889	1 1/4	188,563	1 1/4	172,237	1 1/4	155,909	1 1/4	139,580	1 1/4	123,252	1 1/4	106,923
1 1/2		1 1/2	235,757	1 1/2	220,636	1 1/2	204,549	1 1/2	188,223	1 1/2	171,896	1 1/2	155,568	1 1/2	139,240	1 1/2	122,912	1 1/2	106,583
3 1/4		3 1/4	235,453	3 1/4	220,310	3 1/4	204,209	3 1/4	187,882	3 1/4	171,556	3 1/4	155,228	3 1/4	138,900	3 1/4	122,571	3 1/4	106,243

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

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



BARGE "EMS 3050"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 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	106,903	0	89,574	0	73,246	0	56,940	0	40,614	0	24,299	0	7,975	0		0			
1/8	106,663	1/8	89,234	1/8	72,906	1/8	56,601	1/8	40,274	1/8	23,960	1/8	7,635	1/8		1/8		1/8	
1/2	106,222	1/2	88,894	1/2	72,566	1/2	56,261	1/2	39,934	1/2	23,620	1/2	7,296	1/2		1/2		1/2	
3/4	104,882	3/4	88,554	3/4	72,226	3/4	55,922	3/4	39,594	3/4	23,280	3/4	6,956	3/4		3/4		3/4	
1	104,542	1	88,214	1	71,886	1	55,582	1	39,253	1	22,940	1	6,617	1		1		1	
1 1/8	104,202	1 1/8	87,874	1 1/8	71,546	1 1/8	55,242	1 1/8	38,913	1 1/8	22,600	1 1/8	6,278	1 1/8		1 1/8		1 1/8	
1 1/2	103,862	1 1/2	87,533	1 1/2	71,205	1 1/2	54,902	1 1/2	38,573	1 1/2	22,260	1 1/2	5,939	1 1/2		1 1/2		1 1/2	
3/4	103,522	3/4	87,193	3/4	70,865	3/4	54,562	3/4	38,233	3/4	21,920	3/4	5,600	3/4		3/4		3/4	
2	103,181	2	86,853	2	70,525	2	54,221	2	37,893	2	21,580	2	5,262	2		2		2	
1 1/8	102,841	1 1/8	86,513	1 1/8	70,185	1 1/8	53,881	1 1/8	37,552	1 1/8	21,240	1 1/8	4,924	1 1/8		1 1/8		1 1/8	
1 1/2	102,501	1 1/2	86,173	1 1/2	69,844	1 1/2	53,541	1 1/2	37,212	1 1/2	20,899	1 1/2	4,587	1 1/2		1 1/2		1 1/2	
3/4	102,161	3/4	85,833	3/4	69,504	3/4	53,201	3/4	36,872	3/4	20,559	3/4	4,249	3/4		3/4		3/4	
3	101,821	3	85,492	3	69,164	3	52,861	3	36,532	3	20,219	3	3,912	3		3		3	
1 1/8	101,481	1 1/8	85,152	1 1/8	68,824	1 1/8	52,520	1 1/8	36,192	1 1/8	19,879	1 1/8	3,576	1 1/8		1 1/8		1 1/8	
1 1/2	101,140	1 1/2	84,812	1 1/2	68,484	1 1/2	52,180	1 1/2	35,852	1 1/2	19,539	1 1/2	3,240	1 1/2		1 1/2		1 1/2	
3/4	100,800	3/4	84,472	3/4	68,143	3/4	51,840	3/4	35,511	3/4	19,199	3/4	2,904	3/4		3/4		3/4	
4	100,460	4	84,132	4	67,803	4	51,500	4	35,171	4	18,859	4	2,602	4		4		4	
1 1/8	100,120	1 1/8	83,791	1 1/8	67,463	1 1/8	51,160	1 1/8	34,831	1 1/8	18,518	1 1/8	2,300	1 1/8		1 1/8		1 1/8	
1 1/2	99,780	1 1/2	83,451	1 1/2	67,123	1 1/2	50,820	1 1/2	34,491	1 1/2	18,178	1 1/2	1,997	1 1/2		1 1/2		1 1/2	
3/4	99,440	3/4	83,111	3/4	66,783	3/4	50,479	3/4	34,151	3/4	17,838	3/4	1,695	3/4		3/4		3/4	
5	99,099	5	82,771	5	66,443	5	50,139	5	33,811	5	17,498	5	1,472	5		5		5	
1 1/8	98,759	1 1/8	82,431	1 1/8	66,102	1 1/8	49,799	1 1/8	33,471	1 1/8	17,158	1 1/8	1,249	1 1/8		1 1/8		1 1/8	
1 1/2	98,419	1 1/2	82,091	1 1/2	65,762	1 1/2	49,459	1 1/2	33,131	1 1/2	16,818	1 1/2	1,026	1 1/2		1 1/2		1 1/2	
3/4	98,079	3/4	81,750	3/4	65,422	3/4	49,119	3/4	32,792	3/4	16,477	3/4	803	3/4		3/4		3/4	
6	97,739	6	81,410	6	65,082	6	48,778	6	32,452	6	16,137	6		6		6		6	
1 1/8	97,398	1 1/8	81,070	1 1/8	64,742	1 1/8	48,438	1 1/8	32,112	1 1/8	15,797	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	97,058	1 1/2	80,730	1 1/2	64,402	1 1/2	48,098	1 1/2	31,772	1 1/2	15,457	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	96,718	3/4	80,390	3/4	64,061	3/4	47,758	3/4	31,433	3/4	15,117	3/4		3/4		3/4		3/4	
7	96,378	7	80,050	7	63,722	7	47,418	7	31,093	7	14,777	7		7		7		7	
1 1/8	96,038	1 1/8	79,709	1 1/8	63,383	1 1/8	47,078	1 1/8	30,753	1 1/8	14,437	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	95,698	1 1/2	79,369	1 1/2	63,044	1 1/2	46,737	1 1/2	30,413	1 1/2	14,096	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	95,357	3/4	79,029	3/4	62,705	3/4	46,397	3/4	30,074	3/4	13,756	3/4		3/4		3/4		3/4	
8	95,017	8	78,689	8	62,366	8	46,057	8	29,734	8	13,416	8		8		8		8	
1 1/8	94,677	1 1/8	78,349	1 1/8	62,027	1 1/8	45,717	1 1/8	29,394	1 1/8	13,076	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	94,337	1 1/2	78,009	1 1/2	61,687	1 1/2	45,377	1 1/2	29,055	1 1/2	12,736	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	93,997	3/4	77,668	3/4	61,348	3/4	45,038	3/4	28,715	3/4	12,396	3/4		3/4		3/4		3/4	
9	93,657	9	77,328	9	61,009	9	44,698	9	28,376	9	12,055	9		9		9		9	
1 1/8	93,318	1 1/8	76,988	1 1/8	60,670	1 1/8	44,358	1 1/8	28,036	1 1/8	11,715	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	92,978	1 1/2	76,648	1 1/2	60,331	1 1/2	44,016	1 1/2	27,697	1 1/2	11,375	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	92,638	3/4	76,308	3/4	59,992	3/4	43,676	3/4	27,357	3/4	11,035	3/4		3/4		3/4		3/4	
10	92,298	10	75,967	10	59,653	10	43,336	10	27,017	10	10,695	10		10		10		10	
1 1/8	91,958	1 1/8	75,627	1 1/8	59,314	1 1/8	42,995	1 1/8	26,678	1 1/8	10,355	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	91,618	1 1/2	75,287	1 1/2	58,974	1 1/2	42,655	1 1/2	26,338	1 1/2	10,015	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	91,278	3/4	74,947	3/4	58,635	3/4	42,315	3/4	25,998	3/4	9,674	3/4		3/4		3/4		3/4	
11	90,938	11	74,607	11	58,296	11	41,975	11	25,658	11	9,334	11		11		11		11	
1 1/8	90,598	1 1/8	74,267	1 1/8	57,957	1 1/8	41,635	1 1/8	25,319	1 1/8	8,994	1 1/8		1 1/8		1 1/8		1 1/8	
1 1/2	90,258	1 1/2	73,928	1 1/2	57,618	1 1/2	41,294	1 1/2	24,979	1 1/2	8,654	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	89,918	3/4	73,588	3/4	57,279	3/4	40,954	3/4	24,639	3/4	8,314	3/4		3/4		3/4		3/4	

STRAPPED: 9/17/2014 CL
CALCULATED: 09/17/2014 CL
PRINTED: 09/17/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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 3050"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	194,789	0	188,209	0	178,970	0	187,879	0	158,188	0	143,987	0	128,813	0	113,840
1/4	1/4	1/4	1/4	1/4	194,899	1/4	188,023	1/4	178,774	1/4	187,383	1/4	157,992	1/4	143,671	1/4	128,497	1/4	113,324
1/2	1/2	1/2	1/2	1/2	194,429	1/2	186,836	1/2	178,578	1/2	187,187	1/2	157,797	1/2	143,354	1/2	128,181	1/2	113,007
3/4	3/4	3/4	3/4	3/4	194,258	3/4	186,650	3/4	178,383	3/4	186,992	3/4	157,501	3/4	143,038	3/4	127,888	3/4	112,891
1	1	1	1	1	194,087	1	186,462	1	178,167	1	186,798	1	157,367	1	142,722	1	127,549	1	112,376
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	193,916	1 1/4	186,276	1 1/4	177,991	1 1/4	186,601	1 1/4	157,114	1 1/4	142,405	1 1/4	127,234	1 1/4	112,059
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	193,744	1 1/2	186,087	1 1/2	177,798	1 1/2	186,406	1 1/2	156,870	1 1/2	142,089	1 1/2	126,918	1 1/2	111,742
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	193,572	1 3/4	184,900	1 3/4	176,600	1 3/4	186,209	1 3/4	156,627	1 3/4	141,773	1 3/4	126,602	1 3/4	111,428
2	2	2	2	2	193,399	2	184,711	2	176,404	2	186,014	2	156,383	2	141,457	2	126,288	2	111,110
2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	193,227	2 1/4	184,522	2 1/4	176,209	2 1/4	185,816	2 1/4	156,140	2 1/4	141,140	2 1/4	125,970	2 1/4	110,793
2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	193,054	2 1/2	184,333	2 1/2	176,013	2 1/2	185,622	2 1/2	155,898	2 1/2	140,824	2 1/2	125,654	2 1/2	110,477
2 3/4	2 3/4	2 3/4	2 3/4	2 3/4	192,881	2 3/4	184,144	2 3/4	174,817	2 3/4	185,427	2 3/4	155,653	2 3/4	140,508	2 3/4	125,338	2 3/4	110,161
3	3	3	3	3	192,707	3	183,954	3	174,622	3	185,231	3	155,346	3	140,192	3	125,022	3	109,846
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	192,533	3 1/4	183,764	3 1/4	174,426	3 1/4	185,035	3 1/4	155,039	3 1/4	139,875	3 1/4	124,708	3 1/4	109,528
3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	192,359	3 1/2	183,574	3 1/2	174,231	3 1/2	184,840	3 1/2	154,731	3 1/2	139,559	3 1/2	124,390	3 1/2	109,212
3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	192,186	3 3/4	183,384	3 3/4	174,035	3 3/4	184,644	3 3/4	154,424	3 3/4	139,243	3 3/4	124,074	3 3/4	108,896
4	4	4	4	4	192,009	4	183,193	4	173,839	4	184,448	4	154,108	4	138,928	4	123,758	4	108,680
4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	191,832	4 1/4	183,002	4 1/4	173,644	4 1/4	184,253	4 1/4	153,792	4 1/4	138,610	4 1/4	123,442	4 1/4	108,283
4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	191,656	4 1/2	182,810	4 1/2	173,448	4 1/2	184,057	4 1/2	153,475	4 1/2	138,294	4 1/2	123,126	4 1/2	107,947
4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	191,479	4 3/4	182,619	4 3/4	173,252	4 3/4	183,862	4 3/4	153,159	4 3/4	137,978	4 3/4	122,810	4 3/4	107,631
5	5	5	5	5	191,301	5	182,427	5	173,057	5	183,666	5	152,843	5	137,661	5	122,494	5	107,316
5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	191,123	5 1/4	182,234	5 1/4	172,861	5 1/4	183,470	5 1/4	152,527	5 1/4	137,345	5 1/4	122,178	5 1/4	106,998
5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	190,946	5 1/2	182,042	5 1/2	172,666	5 1/2	183,275	5 1/2	152,210	5 1/2	137,029	5 1/2	121,862	5 1/2	106,682
5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	190,768	5 3/4	181,849	5 3/4	172,470	5 3/4	183,079	5 3/4	151,894	5 3/4	136,713	5 3/4	121,546	5 3/4	106,366
6	6	6	6	6	190,588	6	181,656	6	172,274	6	182,883	6	151,578	6	136,397	6	121,230	6	106,049
6 1/4	6 1/4	6 1/4	6 1/4	6 1/4	190,409	6 1/4	181,462	6 1/4	172,078	6 1/4	182,688	6 1/4	151,261	6 1/4	136,081	6 1/4	120,914	6 1/4	105,733
6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	190,230	6 1/2	181,268	6 1/2	171,883	6 1/2	182,492	6 1/2	150,945	6 1/2	135,765	6 1/2	120,598	6 1/2	105,417
6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	190,051	6 3/4	181,075	6 3/4	171,687	6 3/4	182,296	6 3/4	150,629	6 3/4	135,449	6 3/4	120,282	6 3/4	105,101
7	7	7	7	7	189,871	7	180,880	7	171,492	7	182,101	7	150,313	7	135,133	7	119,965	7	104,784
7 1/4	7 1/4	7 1/4	7 1/4	7 1/4	189,690	7 1/4	180,685	7 1/4	171,296	7 1/4	181,905	7 1/4	149,996	7 1/4	134,817	7 1/4	119,649	7 1/4	104,468
7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	189,510	7 1/2	180,490	7 1/2	171,100	7 1/2	181,709	7 1/2	149,680	7 1/2	134,501	7 1/2	119,333	7 1/2	104,152
7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	189,330	7 3/4	180,295	7 3/4	170,905	7 3/4	181,514	7 3/4	149,364	7 3/4	134,185	7 3/4	119,016	7 3/4	103,836
8	8	8	8	8	189,148	8	180,099	8	170,709	8	181,318	8	149,047	8	133,869	8	118,700	8	103,519
8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	188,966	8 1/4	179,904	8 1/4	170,513	8 1/4	181,123	8 1/4	148,731	8 1/4	133,553	8 1/4	118,384	8 1/4	103,203
8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	188,785	8 1/2	179,708	8 1/2	170,318	8 1/2	180,927	8 1/2	148,415	8 1/2	133,237	8 1/2	118,068	8 1/2	102,887
8 3/4	8 3/4	8 3/4	8 3/4	8 3/4	188,603	8 3/4	179,513	8 3/4	170,122	8 3/4	180,731	8 3/4	148,099	8 3/4	132,921	8 3/4	117,751	8 3/4	102,570
9	9	9	9	9	188,421	9	179,317	9	169,928	9	180,538	9	147,782	9	132,605	9	117,435	9	102,254
9 1/4	9 1/4	9 1/4	9 1/4	9 1/4	188,238	9 1/4	179,122	9 1/4	169,731	9 1/4	180,340	9 1/4	147,466	9 1/4	132,289	9 1/4	117,119	9 1/4	101,938
9 1/2	9 1/2	9 1/2	9 1/2	9 1/2	188,055	9 1/2	178,928	9 1/2	169,536	9 1/2	180,144	9 1/2	147,150	9 1/2	131,973	9 1/2	116,803	9 1/2	101,622
9 3/4	9 3/4	9 3/4	9 3/4	9 3/4	187,872	9 3/4	178,730	9 3/4	169,340	9 3/4	179,949	9 3/4	146,833	9 3/4	131,657	9 3/4	116,488	9 3/4	101,306
10	10	10	10	10	187,688	10	178,536	10	169,144	10	179,753	10	146,517	10	131,341	10	116,170	10	100,989
10 1/4	10 1/4	10 1/4	10 1/4	10 1/4	187,504	10 1/4	178,339	10 1/4	168,948	10 1/4	179,557	10 1/4	146,201	10 1/4	131,025	10 1/4	115,854	10 1/4	100,673
10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	187,320	10 1/2	178,143	10 1/2	168,753	10 1/2	179,362	10 1/2	145,885	10 1/2	130,709	10 1/2	115,538	10 1/2	100,357
10 3/4	10 3/4	10 3/4	10 3/4	10 3/4	187,136	10 3/4	177,948	10 3/4	168,557	10 3/4	179,166	10 3/4	145,568	10 3/4	130,393	10 3/4	115,221	10 3/4	100,040
11	11	11	11	11	186,951	11	177,752	11	168,361	11	178,970	11	145,252	11	130,077	11	114,905	11	99,724
11 1/4	11 1/4	11 1/4	11 1/4	11 1/4	186,768	11 1/4	177,556	11 1/4	168,168	11 1/4	178,775	11 1/4	144,938	11 1/4	129,761	11 1/4	114,589	11 1/4	99,408
11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	186,581	11 1/2	177,361	11 1/2	167,970	11 1/2	178,579	11 1/2	144,619	11 1/2	129,445	11 1/2	114,272	11 1/2	99,091
11 3/4	11 3/4	11 3/4	11 3/4	11 3/4	186,396	11 3/4	177,166	11 3/4	167,774	11 3/4	178,384	11 3/4	144,303	11 3/4	129,129	11 3/4	113,956	11 3/4	98,776

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 40'-08" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77668
<http://www.pmacorp.net>



BARGE "EMS 3050"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 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	98,469	0	83,278	0	68,097	0	52,938	0	37,780	0	22,693	0	7,416	0		0		0	
1/4	98,143	1/4	82,962	1/4	67,781	1/4	52,623	1/4	37,444	1/4	22,277	1/4	7,100	1/4		1/4		1/4	
1/2	97,826	1/2	82,646	1/2	67,466	1/2	52,308	1/2	37,127	1/2	21,961	1/2	6,784	1/2		1/2		1/2	
3/4	97,510	3/4	82,329	3/4	67,148	3/4	51,992	3/4	36,811	3/4	21,646	3/4	6,468	3/4		3/4		3/4	
1	97,194	1	82,013	1	66,832	1	51,676	1	36,495	1	21,329	1	6,153	1		1		1	
1 1/4	96,878	1 1/4	81,697	1 1/4	66,516	1 1/4	51,360	1 1/4	36,179	1 1/4	21,013	1 1/4	5,838	1 1/4		1 1/4		1 1/4	
1 1/2	96,561	1 1/2	81,380	1 1/2	66,199	1 1/2	51,044	1 1/2	35,862	1 1/2	20,697	1 1/2	5,523	1 1/2		1 1/2		1 1/2	
1 3/4	96,245	1 3/4	81,064	1 3/4	65,883	1 3/4	50,727	1 3/4	35,546	1 3/4	20,380	1 3/4	5,208	1 3/4		1 3/4		1 3/4	
2	95,929	2	80,748	2	65,567	2	50,411	2	35,230	2	20,064	2	4,894	2		2		2	
2 1/4	95,613	2 1/4	80,432	2 1/4	65,251	2 1/4	50,095	2 1/4	34,913	2 1/4	19,748	2 1/4	4,579	2 1/4		2 1/4		2 1/4	
2 1/2	95,298	2 1/2	80,116	2 1/2	64,934	2 1/2	49,778	2 1/2	34,597	2 1/2	19,432	2 1/2	4,265	2 1/2		2 1/2		2 1/2	
2 3/4	94,980	2 3/4	79,799	2 3/4	64,618	2 3/4	49,462	2 3/4	34,281	2 3/4	19,116	2 3/4	3,951	2 3/4		2 3/4		2 3/4	
3	94,664	3	79,483	3	64,302	3	49,146	3	33,966	3	18,799	3	3,639	3		3		3	
3 1/4	94,347	3 1/4	79,167	3 1/4	63,986	3 1/4	48,830	3 1/4	33,648	3 1/4	18,483	3 1/4	3,326	3 1/4		3 1/4		3 1/4	
3 1/2	94,031	3 1/2	78,850	3 1/2	63,669	3 1/2	48,513	3 1/2	33,332	3 1/2	18,167	3 1/2	3,014	3 1/2		3 1/2		3 1/2	
3 3/4	93,715	3 3/4	78,534	3 3/4	63,353	3 3/4	48,197	3 3/4	33,016	3 3/4	17,850	3 3/4	2,701	3 3/4		3 3/4		3 3/4	
4	93,399	4	78,218	4	63,037	4	47,881	4	32,700	4	17,534	4	2,420	4		4		4	
4 1/4	93,082	4 1/4	77,901	4 1/4	62,720	4 1/4	47,565	4 1/4	32,383	4 1/4	17,218	4 1/4	2,139	4 1/4		4 1/4		4 1/4	
4 1/2	92,766	4 1/2	77,586	4 1/2	62,404	4 1/2	47,248	4 1/2	32,067	4 1/2	16,902	4 1/2	1,858	4 1/2		4 1/2		4 1/2	
4 3/4	92,450	4 3/4	77,269	4 3/4	62,088	4 3/4	46,932	4 3/4	31,751	4 3/4	16,586	4 3/4	1,577	4 3/4		4 3/4		4 3/4	
5	92,134	5	76,953	5	61,772	5	46,616	5	31,435	5	16,269	5	1,370	5		5		5	
5 1/4	91,817	5 1/4	76,638	5 1/4	61,456	5 1/4	46,299	5 1/4	31,119	5 1/4	15,953	5 1/4	1,162	5 1/4		5 1/4		5 1/4	
5 1/2	91,501	5 1/2	76,320	5 1/2	61,139	5 1/2	45,983	5 1/2	30,803	5 1/2	15,637	5 1/2	955	5 1/2		5 1/2		5 1/2	
5 3/4	91,185	5 3/4	76,004	5 3/4	60,823	5 3/4	45,667	5 3/4	30,487	5 3/4	15,320	5 3/4	747	5 3/4		5 3/4		5 3/4	
6	90,868	6	75,688	6	60,507	6	45,351	6	30,171	6	15,004	6		6		6		6	
6 1/4	90,552	6 1/4	75,371	6 1/4	60,190	6 1/4	45,034	6 1/4	29,855	6 1/4	14,688	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	90,236	6 1/2	75,056	6 1/2	59,874	6 1/2	44,718	6 1/2	29,540	6 1/2	14,372	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	89,920	6 3/4	74,739	6 3/4	59,558	6 3/4	44,402	6 3/4	29,224	6 3/4	14,056	6 3/4		6 3/4		6 3/4		6 3/4	
7	89,603	7	74,422	7	59,243	7	44,086	7	28,908	7	13,739	7		7		7		7	
7 1/4	89,287	7 1/4	74,106	7 1/4	58,927	7 1/4	43,769	7 1/4	28,592	7 1/4	13,423	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	88,971	7 1/2	73,790	7 1/2	58,612	7 1/2	43,453	7 1/2	28,276	7 1/2	13,107	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	88,655	7 3/4	73,474	7 3/4	58,297	7 3/4	43,137	7 3/4	27,960	7 3/4	12,790	7 3/4		7 3/4		7 3/4		7 3/4	
8	88,338	8	73,157	8	57,982	8	42,820	8	27,645	8	12,474	8		8		8		8	
8 1/4	88,022	8 1/4	72,841	8 1/4	57,666	8 1/4	42,504	8 1/4	27,329	8 1/4	12,158	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	87,708	8 1/2	72,525	8 1/2	57,351	8 1/2	42,188	8 1/2	27,013	8 1/2	11,842	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	87,390	8 3/4	72,209	8 3/4	57,036	8 3/4	41,872	8 3/4	26,698	8 3/4	11,526	8 3/4		8 3/4		8 3/4		8 3/4	
9	87,073	9	71,892	9	56,721	9	41,556	9	26,382	9	11,209	9		9		9		9	
9 1/4	86,757	9 1/4	71,576	9 1/4	56,406	9 1/4	41,239	9 1/4	26,066	9 1/4	10,893	9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	86,441	9 1/2	71,260	9 1/2	56,090	9 1/2	40,923	9 1/2	25,751	9 1/2	10,577	9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	86,124	9 3/4	70,943	9 3/4	55,775	9 3/4	40,608	9 3/4	25,436	9 3/4	10,261	9 3/4		9 3/4		9 3/4		9 3/4	
10	85,808	10	70,627	10	55,460	10	40,290	10	25,119	10	9,944	10		10		10		10	
10 1/4	85,492	10 1/4	70,311	10 1/4	55,145	10 1/4	39,974	10 1/4	24,804	10 1/4	9,628	10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	85,176	10 1/2	69,995	10 1/2	54,829	10 1/2	39,658	10 1/2	24,488	10 1/2	9,312	10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	84,859	10 3/4	69,678	10 3/4	54,514	10 3/4	39,341	10 3/4	24,172	10 3/4	8,996	10 3/4		10 3/4		10 3/4		10 3/4	
11	84,543	11	69,362	11	54,199	11	39,025	11	23,856	11	8,679	11		11		11		11	
11 1/4	84,227	11 1/4	69,046	11 1/4	53,884	11 1/4	38,709	11 1/4	23,540	11 1/4	8,363	11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	83,911	11 1/2	68,730	11 1/2	53,569	11 1/2	38,393	11 1/2	23,224	11 1/2	8,047	11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	83,594	11 3/4	68,413	11 3/4	53,253	11 3/4	38,076	11 3/4	22,909	11 3/4	7,731	11 3/4		11 3/4		11 3/4		11 3/4	

STRAPPED: 9/17/2014 CL
CALCULATED: 09/17/2014 CL
PRINTED: 09/17/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 3050"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 18'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	202,310	0	193,920	0	186,348	0	178,102	0	168,716	0	157,327	0	143,006	0	127,838	0	112,665
1/4		1/4	202,118	1/4	193,749	1/4	186,181	1/4	177,906	1/4	168,519	1/4	157,132	1/4	142,890	1/4	127,620	1/4	112,349
1/2		1/2	201,928	1/2	193,579	1/2	184,975	1/2	175,711	1/2	166,323	1/2	156,938	1/2	142,374	1/2	127,204	1/2	112,032
3/4		3/4	201,716	3/4	193,408	3/4	184,787	3/4	175,516	3/4	166,128	3/4	156,693	3/4	142,067	3/4	126,888	3/4	111,716
1		1	201,510	1	193,236	1	184,600	1	175,320	1	165,932	1	156,449	1	141,741	1	126,572	1	111,400
1 1/4		1 1/4	201,302	1 1/4	193,085	1 1/4	184,412	1 1/4	175,124	1 1/4	165,737	1 1/4	156,208	1 1/4	141,428	1 1/4	126,286	1 1/4	111,084
1 1/2		1 1/2	201,094	1 1/2	192,893	1 1/2	184,226	1 1/2	174,928	1 1/2	165,541	1 1/2	156,062	1 1/2	141,109	1 1/2	126,041	1 1/2	110,768
3 1/4		3 1/4	200,888	3 1/4	192,721	3 1/4	184,038	3 1/4	174,733	3 1/4	165,346	3 1/4	155,719	3 1/4	140,793	3 1/4	125,828	3 1/4	110,451
2		2	200,642	2	192,648	2	183,847	2	174,537	2	165,160	2	155,475	2	140,478	2	125,309	2	110,135
1 1/4		1 1/4	200,416	1 1/4	192,375	1 1/4	183,888	1 1/4	174,342	1 1/4	164,864	1 1/4	155,232	1 1/4	140,160	1 1/4	124,993	1 1/4	109,819
1 1/2		1 1/2	200,190	1 1/2	192,203	1 1/2	183,470	1 1/2	174,148	1 1/2	164,769	1 1/2	154,989	1 1/2	139,844	1 1/2	124,677	1 1/2	109,603
3 1/4		3 1/4	200,026	3 1/4	192,029	3 1/4	183,280	3 1/4	173,951	3 1/4	164,563	3 1/4	154,681	3 1/4	139,528	3 1/4	124,361	3 1/4	109,167
3		3	199,861	3	191,885	3	183,090	3	173,765	3	164,388	3	154,374	3	139,212	3	124,046	3	108,870
1 1/4		1 1/4	199,696	1 1/4	191,681	1 1/4	182,900	1 1/4	173,569	1 1/4	164,172	1 1/4	154,067	1 1/4	138,895	1 1/4	123,729	1 1/4	108,564
1 1/2		1 1/2	199,531	1 1/2	191,507	1 1/2	182,710	1 1/2	173,384	1 1/2	163,977	1 1/2	153,760	1 1/2	138,579	1 1/2	123,413	1 1/2	108,238
3 1/4		3 1/4	199,371	3 1/4	191,331	3 1/4	182,519	3 1/4	173,168	3 1/4	163,781	3 1/4	153,444	3 1/4	138,263	3 1/4	123,097	3 1/4	107,922
4		4	199,211	4	191,164	4	182,328	4	172,973	4	163,585	4	153,127	4	137,947	4	122,782	4	107,608
1 1/4		1 1/4	199,061	1 1/4	190,978	1 1/4	182,138	1 1/4	172,777	1 1/4	163,390	1 1/4	152,811	1 1/4	137,831	1 1/4	122,468	1 1/4	107,289
1 1/2		1 1/2	198,891	1 1/2	190,801	1 1/2	181,946	1 1/2	172,582	1 1/2	163,194	1 1/2	152,495	1 1/2	137,314	1 1/2	122,160	1 1/2	106,973
3 1/4		3 1/4	198,729	3 1/4	190,624	3 1/4	181,763	3 1/4	172,386	3 1/4	162,999	3 1/4	152,178	3 1/4	136,998	3 1/4	121,834	3 1/4	106,657
5		5	198,568	5	190,446	5	181,560	5	172,191	5	162,803	5	151,862	5	136,682	5	121,618	5	106,341
1 1/4		1 1/4	198,406	1 1/4	190,268	1 1/4	181,388	1 1/4	171,995	1 1/4	162,608	1 1/4	151,548	1 1/4	136,366	1 1/4	121,202	1 1/4	106,025
1 1/2		1 1/2	198,244	1 1/2	190,090	1 1/2	181,178	1 1/2	171,799	1 1/2	162,412	1 1/2	151,230	1 1/2	136,049	1 1/2	120,888	1 1/2	105,708
3 1/4		3 1/4	198,081	3 1/4	189,911	3 1/4	180,982	3 1/4	171,604	3 1/4	162,216	3 1/4	150,913	3 1/4	135,734	3 1/4	120,670	3 1/4	105,392
6		6	197,918	6	189,732	6	180,788	6	171,408	6	162,021	6	150,597	6	135,418	6	120,254	6	105,078
1 1/4		1 1/4	197,756	1 1/4	189,563	1 1/4	180,595	1 1/4	171,213	1 1/4	161,826	1 1/4	150,291	1 1/4	135,102	1 1/4	119,938	1 1/4	104,780
1 1/2		1 1/2	197,592	1 1/2	189,374	1 1/2	180,401	1 1/2	171,017	1 1/2	161,630	1 1/2	149,964	1 1/2	134,788	1 1/2	119,621	1 1/2	104,444
3 1/4		3 1/4	197,428	3 1/4	189,194	3 1/4	180,206	3 1/4	170,822	3 1/4	161,434	3 1/4	149,648	3 1/4	134,470	3 1/4	119,305	3 1/4	104,127
7		7	197,264	7	189,013	7	180,012	7	170,628	7	161,239	7	149,332	7	134,164	7	118,989	7	103,811
1 1/4		1 1/4	197,100	1 1/4	188,833	1 1/4	179,817	1 1/4	170,430	1 1/4	161,043	1 1/4	149,016	1 1/4	133,838	1 1/4	118,673	1 1/4	103,495
1 1/2		1 1/2	196,936	1 1/2	188,663	1 1/2	179,622	1 1/2	170,235	1 1/2	160,847	1 1/2	148,699	1 1/2	133,622	1 1/2	118,367	1 1/2	103,179
3 1/4		3 1/4	196,770	3 1/4	188,471	3 1/4	179,428	3 1/4	170,039	3 1/4	160,652	3 1/4	148,383	3 1/4	133,208	3 1/4	118,040	3 1/4	102,883
8		8	196,606	8	188,290	8	179,231	8	169,844	8	160,466	8	148,067	8	132,890	8	117,724	8	102,548
1 1/4		1 1/4	196,439	1 1/4	188,108	1 1/4	179,035	1 1/4	169,648	1 1/4	160,261	1 1/4	147,760	1 1/4	132,575	1 1/4	117,408	1 1/4	102,230
1 1/2		1 1/2	196,274	1 1/2	187,927	1 1/2	178,840	1 1/2	169,463	1 1/2	160,086	1 1/2	147,434	1 1/2	132,269	1 1/2	117,092	1 1/2	101,914
3 1/4		3 1/4	196,107	3 1/4	187,744	3 1/4	178,644	3 1/4	169,267	3 1/4	160,870	3 1/4	147,116	3 1/4	131,943	3 1/4	116,776	3 1/4	101,598
9		9	195,941	9	187,582	9	178,449	9	169,061	9	160,674	9	146,802	9	131,627	9	116,469	9	101,282
1 1/4		1 1/4	195,774	1 1/4	187,379	1 1/4	178,263	1 1/4	168,866	1 1/4	160,478	1 1/4	146,486	1 1/4	131,311	1 1/4	116,143	1 1/4	100,965
1 1/2		1 1/2	195,608	1 1/2	187,196	1 1/2	178,058	1 1/2	168,670	1 1/2	160,283	1 1/2	146,169	1 1/2	130,995	1 1/2	115,827	1 1/2	100,649
3 1/4		3 1/4	195,440	3 1/4	187,012	3 1/4	177,862	3 1/4	168,475	3 1/4	160,087	3 1/4	145,883	3 1/4	130,679	3 1/4	115,511	3 1/4	100,333
10		10	195,272	10	186,828	10	177,686	10	168,279	10	160,892	10	145,538	10	130,383	10	115,196	10	100,017
1 1/4		1 1/4	195,104	1 1/4	186,646	1 1/4	177,471	1 1/4	168,084	1 1/4	160,696	1 1/4	145,220	1 1/4	130,047	1 1/4	114,878	1 1/4	99,701
1 1/2		1 1/2	194,936	1 1/2	186,461	1 1/2	177,276	1 1/2	167,888	1 1/2	160,501	1 1/2	144,904	1 1/2	129,731	1 1/2	114,562	1 1/2	99,384
3 1/4		3 1/4	194,767	3 1/4	186,278	3 1/4	177,080	3 1/4	167,692	3 1/4	160,306	3 1/4	144,588	3 1/4	129,416	3 1/4	114,248	3 1/4	99,068
11		11	194,598	11	186,090	11	176,884	11	167,497	11	160,109	11	144,271	11	129,100	11	113,930	11	98,752
1 1/4		1 1/4	194,429	1 1/4	185,905	1 1/4	176,689	1 1/4	167,301	1 1/4	160,914	1 1/4	143,955	1 1/4	128,784	1 1/4	113,614	1 1/4	98,436
1 1/2		1 1/2	194,260	1 1/2	185,720	1 1/2	176,493	1 1/2	167,108	1 1/2	160,718	1 1/2	143,639	1 1/2	128,468	1 1/2	113,297	1 1/2	98,119
3 1/4		3 1/4	194,090	3 1/4	185,534	3 1/4	176,297	3 1/4	166,910	3 1/4	160,523	3 1/4	143,323	3 1/4	128,162	3 1/4	112,981	3 1/4	97,803

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" OPENING ON "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 40'-09" 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 3050"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-05 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	97,487	0	82,324	0	67,180	0	52,032	0	36,889	0	22,200	0	7,100	0		0		0	
1/4	97,171	1/4	82,009	1/4	66,864	1/4	51,717	1/4	36,553	1/4	21,896	1/4	6,784	1/4		1/4		1/4	
1/2	96,855	1/2	81,694	1/2	66,548	1/2	51,402	1/2	36,238	1/2	21,582	1/2	6,468	1/2		1/2		1/2	
3/4	96,538	3/4	81,379	3/4	66,232	3/4	51,086	3/4	35,922	3/4	21,268	3/4	6,153	3/4		3/4		3/4	
1	96,222	1	81,063	1	65,916	1	50,770	1	35,606	1	20,983	1	5,838	1		1		1	
1 1/4	95,906	1 1/4	80,748	1 1/4	65,600	1 1/4	60,453	1 1/4	35,291	1 1/4	20,679	1 1/4	5,523	1 1/4		1 1/4		1 1/4	
1 1/2	95,590	1 1/2	80,433	1 1/2	65,283	1 1/2	60,137	1 1/2	34,975	1 1/2	20,375	1 1/2	5,208	1 1/2		1 1/2		1 1/2	
3/2	95,274	3/2	80,118	3/2	64,967	3/2	49,821	3/2	34,660	3/2	20,060	3/2	4,894	3/2		3/2		3/2	
2	94,957	2	79,802	2	64,651	2	49,505	2	34,384	2	19,745	2	4,579	2		2		2	
2 1/4	94,641	2 1/4	79,487	2 1/4	64,335	2 1/4	49,189	2 1/4	34,068	2 1/4	19,430	2 1/4	4,265	2 1/4		2 1/4		2 1/4	
2 1/2	94,325	2 1/2	79,172	2 1/2	64,019	2 1/2	48,873	2 1/2	33,753	2 1/2	19,115	2 1/2	3,951	2 1/2		2 1/2		2 1/2	
3 1/4	94,009	3 1/4	78,857	3 1/4	63,703	3 1/4	48,557	3 1/4	33,448	3 1/4	18,799	3 1/4	3,639	3 1/4		3 1/4		3 1/4	
3	93,693	3	78,541	3	63,387	3	48,241	3	33,145	3	18,483	3	3,328	3		3		3	
3 1/4	93,378	3 1/4	78,226	3 1/4	63,071	3 1/4	47,925	3 1/4	32,841	3 1/4	18,167	3 1/4	3,014	3 1/4		3 1/4		3 1/4	
3 1/2	93,060	3 1/2	77,911	3 1/2	62,755	3 1/2	47,609	3 1/2	32,537	3 1/2	17,850	3 1/2	2,701	3 1/2		3 1/2		3 1/2	
3 3/4	92,744	3 3/4	77,596	3 3/4	62,439	3 3/4	47,293	3 3/4	32,232	3 3/4	17,534	3 3/4	2,420	3 3/4		3 3/4		3 3/4	
4	92,428	4	77,280	4	62,123	4	46,977	4	31,928	4	17,218	4	2,139	4		4		4	
4 1/4	92,112	4 1/4	76,965	4 1/4	61,807	4 1/4	46,661	4 1/4	31,624	4 1/4	16,902	4 1/4	1,858	4 1/4		4 1/4		4 1/4	
4 1/2	91,795	4 1/2	76,650	4 1/2	61,491	4 1/2	46,345	4 1/2	31,319	4 1/2	16,585	4 1/2	1,577	4 1/2		4 1/2		4 1/2	
4 3/4	91,479	4 3/4	76,335	4 3/4	61,175	4 3/4	46,028	4 3/4	31,015	4 3/4	16,269	4 3/4	1,370	4 3/4		4 3/4		4 3/4	
5	91,163	5	76,019	5	60,859	5	45,712	5	30,711	5	15,953	5	1,162	5		5		5	
5 1/4	90,847	5 1/4	75,704	5 1/4	60,542	5 1/4	45,398	5 1/4	30,407	5 1/4	15,637	5 1/4	955	5 1/4		5 1/4		5 1/4	
5 1/2	90,531	5 1/2	75,389	5 1/2	60,226	5 1/2	45,080	5 1/2	30,103	5 1/2	15,320	5 1/2	747	5 1/2		5 1/2		5 1/2	
5 3/4	90,214	5 3/4	75,074	5 3/4	59,910	5 3/4	44,764	5 3/4	29,799	5 3/4	15,004	5 3/4		5 3/4		5 3/4		5 3/4	
6	89,898	6	74,759	6	59,594	6	44,448	6	29,495	6	14,688	6		6		6		6	
6 1/4	89,582	6 1/4	74,443	6 1/4	59,278	6 1/4	44,132	6 1/4	29,191	6 1/4	14,372	6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	89,266	6 1/2	74,128	6 1/2	58,962	6 1/2	43,816	6 1/2	28,887	6 1/2	14,056	6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	88,950	6 3/4	73,813	6 3/4	58,647	6 3/4	43,500	6 3/4	28,583	6 3/4	13,739	6 3/4		6 3/4		6 3/4		6 3/4	
7	88,633	7	73,498	7	58,332	7	43,184	7	28,279	7	13,423	7		7		7		7	
7 1/4	88,317	7 1/4	73,182	7 1/4	58,017	7 1/4	42,868	7 1/4	27,975	7 1/4	13,107	7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	88,001	7 1/2	72,867	7 1/2	57,702	7 1/2	42,552	7 1/2	27,671	7 1/2	12,791	7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	87,685	7 3/4	72,551	7 3/4	57,387	7 3/4	42,236	7 3/4	27,367	7 3/4	12,474	7 3/4		7 3/4		7 3/4		7 3/4	
8	87,369	8	72,236	8	57,072	8	41,920	8	27,063	8	12,158	8		8		8		8	
8 1/4	87,054	8 1/4	71,920	8 1/4	56,757	8 1/4	41,604	8 1/4	26,759	8 1/4	11,842	8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	86,738	8 1/2	71,605	8 1/2	56,442	8 1/2	41,289	8 1/2	26,455	8 1/2	11,528	8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	86,423	8 3/4	71,289	8 3/4	56,127	8 3/4	40,973	8 3/4	26,152	8 3/4	11,209	8 3/4		8 3/4		8 3/4		8 3/4	
9	86,107	9	70,973	9	55,812	9	40,657	9	25,848	9	10,893	9		9		9		9	
9 1/4	85,792	9 1/4	70,657	9 1/4	55,497	9 1/4	40,342	9 1/4	25,544	9 1/4	10,577	9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	85,477	9 1/2	70,341	9 1/2	55,182	9 1/2	40,028	9 1/2	25,240	9 1/2	10,281	9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	85,161	9 3/4	70,024	9 3/4	54,867	9 3/4	39,710	9 3/4	24,938	9 3/4	9,944	9 3/4		9 3/4		9 3/4		9 3/4	
10	84,848	10	69,708	10	54,552	10	39,395	10	24,632	10	9,628	10		10		10		10	
10 1/4	84,531	10 1/4	69,392	10 1/4	54,237	10 1/4	39,079	10 1/4	24,328	10 1/4	9,312	10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	84,216	10 1/2	69,076	10 1/2	53,922	10 1/2	38,763	10 1/2	24,024	10 1/2	8,996	10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	83,900	10 3/4	68,760	10 3/4	53,607	10 3/4	38,447	10 3/4	23,720	10 3/4	8,679	10 3/4		10 3/4		10 3/4		10 3/4	
11	83,585	11	68,444	11	53,292	11	38,132	11	23,416	11	8,363	11		11		11		11	
11 1/4	83,270	11 1/4	68,128	11 1/4	52,977	11 1/4	37,816	11 1/4	23,112	11 1/4	8,047	11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	82,955	11 1/2	67,812	11 1/2	52,662	11 1/2	37,500	11 1/2	22,808	11 1/2	7,731	11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	82,639	11 3/4	67,496	11 3/4	52,347	11 3/4	37,185	11 3/4	22,504	11 3/4	7,416	11 3/4		11 3/4		11 3/4		11 3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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