



# BARGE "HFL 3011"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 5'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

February 14, 2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 3011"

## STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,161	0	3,006	0	1,853	0	698	0		0		0		0	
1/4		1/4		1/4	4,137	1/4	2,982	1/4	1,829	1/4	674	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,113	1/2	2,958	1/2	1,805	1/2	650	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,089	3/4	2,934	3/4	1,780	3/4	626	3/4		3/4		3/4		3/4	
1		1		1	4,065	1	2,910	1	1,756	1	602	1		1		1		1	
1/4		1/4	5,140	1/4	4,041	1/4	2,886	1/4	1,732	1/4	578	1/4		1/4		1/4		1/4	
1/2		1/2	5,128	1/2	4,017	1/2	2,862	1/2	1,708	1/2	553	1/2		1/2		1/2		1/2	
3/4		3/4	5,117	3/4	3,993	3/4	2,838	3/4	1,684	3/4	529	3/4		3/4		3/4		3/4	
2		2	5,105	2	3,969	2	2,814	2	1,660	2	505	2		2		2		2	
1/4		1/4	5,093	1/4	3,945	1/4	2,790	1/4	1,636	1/4	481	1/4		1/4		1/4		1/4	
1/2		1/2	5,070	1/2	3,921	1/2	2,766	1/2	1,612	1/2	457	1/2		1/2		1/2		1/2	
3/4		3/4	5,046	3/4	3,897	3/4	2,742	3/4	1,588	3/4	433	3/4		3/4		3/4		3/4	
3		3	5,023	3	3,873	3	2,718	3	1,564	3	409	3		3		3		3	
1/4		1/4	4,999	1/4	3,849	1/4	2,694	1/4	1,540	1/4	385	1/4		1/4		1/4		1/4	
1/2		1/2	4,975	1/2	3,825	1/2	2,670	1/2	1,516	1/2	361	1/2		1/2		1/2		1/2	
3/4		3/4	4,952	3/4	3,800	3/4	2,646	3/4	1,492	3/4	337	3/4		3/4		3/4		3/4	
4		4	4,928	4	3,776	4	2,622	4	1,468	4	313	4		4		4		4	
1/4		1/4	4,904	1/4	3,752	1/4	2,597	1/4	1,444	1/4	289	1/4		1/4		1/4		1/4	
1/2		1/2	4,881	1/2	3,728	1/2	2,574	1/2	1,419	1/2	265	1/2		1/2		1/2		1/2	
3/4		3/4	4,857	3/4	3,704	3/4	2,550	3/4	1,395	3/4	241	3/4		3/4		3/4		3/4	
5		5	4,833	5	3,680	5	2,526	5	1,371	5	217	5		5		5		5	
1/4		1/4	4,810	1/4	3,656	1/4	2,502	1/4	1,347	1/4	193	1/4		1/4		1/4		1/4	
1/2		1/2	4,786	1/2	3,632	1/2	2,478	1/2	1,323	1/2	168	1/2		1/2		1/2		1/2	
3/4		3/4	4,762	3/4	3,608	3/4	2,454	3/4	1,299	3/4	144	3/4		3/4		3/4		3/4	
6		6	4,739	6	3,584	6	2,430	6	1,275	6	120	6		6		6		6	
1/4		1/4	4,715	1/4	3,560	1/4	2,406	1/4	1,251	1/4	96	1/4		1/4		1/4		1/4	
1/2		1/2	4,691	1/2	3,536	1/2	2,382	1/2	1,227	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,667	3/4	3,512	3/4	2,358	3/4	1,203	3/4		3/4		3/4		3/4		3/4	
7		7	4,643	7	3,488	7	2,334	7	1,179	7		7		7		7		7	
1/4		1/4	4,619	1/4	3,464	1/4	2,310	1/4	1,155	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,595	1/2	3,440	1/2	2,286	1/2	1,131	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,570	3/4	3,415	3/4	2,262	3/4	1,107	3/4		3/4		3/4		3/4		3/4	
8		8	4,546	8	3,391	8	2,238	8	1,083	8		8		8		8		8	
1/4		1/4	4,522	1/4	3,367	1/4	2,214	1/4	1,059	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,498	1/2	3,343	1/2	2,190	1/2	1,035	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,474	3/4	3,319	3/4	2,165	3/4	1,011	3/4		3/4		3/4		3/4		3/4	
9		9	4,450	9	3,295	9	2,141	9	987	9		9		9		9		9	
1/4		1/4	4,426	1/4	3,271	1/4	2,117	1/4	963	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,402	1/2	3,247	1/2	2,093	1/2	938	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,378	3/4	3,223	3/4	2,069	3/4	914	3/4		3/4		3/4		3/4		3/4	
10		10	4,354	10	3,199	10	2,045	10	890	10		10		10		10		10	
1/4		1/4	4,330	1/4	3,175	1/4	2,021	1/4	866	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,306	1/2	3,151	1/2	1,997	1/2	842	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,282	3/4	3,127	3/4	1,973	3/4	818	3/4		3/4		3/4		3/4		3/4	
11		11	4,258	11	3,103	11	1,949	11	794	11		11		11		11		11	
1/4		1/4	4,234	1/4	3,079	1/4	1,925	1/4	770	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,210	1/2	3,054	1/2	1,901	1/2	746	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,185	3/4	3,030	3/4	1,877	3/4	722	3/4		3/4		3/4		3/4		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 AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,161	0	3,006	0	1,853	0	698	0		0		0		0	
1/4		1/4		1/4	4,137	1/4	2,982	1/4	1,829	1/4	674	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,113	1/2	2,958	1/2	1,805	1/2	650	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,089	3/4	2,934	3/4	1,780	3/4	626	3/4		3/4		3/4		3/4	
1		1		1	4,065	1	2,910	1	1,756	1	602	1		1		1		1	
1/4		1/4	5,140	1/4	4,041	1/4	2,886	1/4	1,732	1/4	578	1/4		1/4		1/4		1/4	
1/2		1/2	5,128	1/2	4,017	1/2	2,862	1/2	1,708	1/2	553	1/2		1/2		1/2		1/2	
3/4		3/4	5,117	3/4	3,993	3/4	2,838	3/4	1,684	3/4	529	3/4		3/4		3/4		3/4	
2		2	5,105	2	3,969	2	2,814	2	1,660	2	505	2		2		2		2	
1/4		1/4	5,093	1/4	3,945	1/4	2,790	1/4	1,636	1/4	481	1/4		1/4		1/4		1/4	
1/2		1/2	5,070	1/2	3,921	1/2	2,766	1/2	1,612	1/2	457	1/2		1/2		1/2		1/2	
3/4		3/4	5,046	3/4	3,897	3/4	2,742	3/4	1,588	3/4	433	3/4		3/4		3/4		3/4	
3		3	5,023	3	3,873	3	2,718	3	1,564	3	409	3		3		3		3	
1/4		1/4	4,999	1/4	3,849	1/4	2,694	1/4	1,540	1/4	385	1/4		1/4		1/4		1/4	
1/2		1/2	4,975	1/2	3,825	1/2	2,670	1/2	1,516	1/2	361	1/2		1/2		1/2		1/2	
3/4		3/4	4,952	3/4	3,800	3/4	2,646	3/4	1,492	3/4	337	3/4		3/4		3/4		3/4	
4		4	4,928	4	3,776	4	2,622	4	1,468	4	313	4		4		4		4	
1/4		1/4	4,904	1/4	3,752	1/4	2,597	1/4	1,444	1/4	289	1/4		1/4		1/4		1/4	
1/2		1/2	4,881	1/2	3,728	1/2	2,574	1/2	1,419	1/2	265	1/2		1/2		1/2		1/2	
3/4		3/4	4,857	3/4	3,704	3/4	2,550	3/4	1,395	3/4	241	3/4		3/4		3/4		3/4	
5		5	4,833	5	3,680	5	2,526	5	1,371	5	217	5		5		5		5	
1/4		1/4	4,810	1/4	3,656	1/4	2,502	1/4	1,347	1/4	193	1/4		1/4		1/4		1/4	
1/2		1/2	4,786	1/2	3,632	1/2	2,478	1/2	1,323	1/2	168	1/2		1/2		1/2		1/2	
3/4		3/4	4,762	3/4	3,608	3/4	2,454	3/4	1,299	3/4	144	3/4		3/4		3/4		3/4	
6		6	4,739	6	3,584	6	2,430	6	1,275	6	120	6		6		6		6	
1/4		1/4	4,715	1/4	3,560	1/4	2,406	1/4	1,251	1/4	96	1/4		1/4		1/4		1/4	
1/2		1/2	4,691	1/2	3,536	1/2	2,382	1/2	1,227	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,667	3/4	3,512	3/4	2,358	3/4	1,203	3/4		3/4		3/4		3/4		3/4	
7		7	4,643	7	3,488	7	2,334	7	1,179	7		7		7		7		7	
1/4		1/4	4,619	1/4	3,464	1/4	2,310	1/4	1,155	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,595	1/2	3,440	1/2	2,286	1/2	1,131	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,570	3/4	3,415	3/4	2,262	3/4	1,107	3/4		3/4		3/4		3/4		3/4	
8		8	4,546	8	3,391	8	2,238	8	1,083	8		8		8		8		8	
1/4		1/4	4,522	1/4	3,367	1/4	2,214	1/4	1,059	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,498	1/2	3,343	1/2	2,190	1/2	1,035	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,474	3/4	3,319	3/4	2,165	3/4	1,011	3/4		3/4		3/4		3/4		3/4	
9		9	4,450	9	3,295	9	2,141	9	987	9		9		9		9		9	
1/4		1/4	4,426	1/4	3,271	1/4	2,117	1/4	963	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,402	1/2	3,247	1/2	2,093	1/2	938	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,378	3/4	3,223	3/4	2,069	3/4	914	3/4		3/4		3/4		3/4		3/4	
10		10	4,354	10	3,199	10	2,045	10	890	10		10		10		10		10	
1/4		1/4	4,330	1/4	3,175	1/4	2,021	1/4	866	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,306	1/2	3,151	1/2	1,997	1/2	842	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,282	3/4	3,127	3/4	1,973	3/4	818	3/4		3/4		3/4		3/4		3/4	
11		11	4,258	11	3,103	11	1,949	11	794	11		11		11		11		11	
1/4		1/4	4,234	1/4	3,079	1/4	1,925	1/4	770	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,210	1/2	3,054	1/2	1,901	1/2	746	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,185	3/4	3,030	3/4	1,877	3/4	722	3/4		3/4		3/4		3/4		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 AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	184,852	0	174,523	0	164,179	0	153,813	0	141,640	0	126,646	0	111,651	0	96,641		
1/4	1/4	1/4	184,637	1/4	174,308	1/4	163,963	1/4	153,597	1/4	141,328	1/4	126,333	1/4	111,339	1/4	96,328		
1/2	1/2	1/2	184,422	1/2	174,092	1/2	163,747	1/2	153,381	1/2	141,016	1/2	126,021	1/2	111,026	1/2	96,015		
3/4	3/4	3/4	184,207	3/4	173,877	3/4	163,531	3/4	153,165	3/4	140,703	3/4	125,709	3/4	110,714	3/4	95,703		
1	1	1	183,991	1	173,662	1	163,315	1	152,949	1	140,391	1	125,396	1	110,402	1	95,390		
1/4	1/4	1/4	183,776	1/4	173,447	1/4	163,099	1/4	152,733	1/4	140,079	1/4	125,084	1/4	110,089	1/4	95,077		
1/2	1/2	1/2	183,561	1/2	173,232	1/2	162,883	1/2	152,517	1/2	139,766	1/2	124,771	1/2	109,777	1/2	94,764		
3/4	3/4	3/4	192,983	3/4	183,346	3/4	173,016	3/4	162,667	3/4	152,302	3/4	139,454	3/4	124,459	3/4	109,464		
2	2	2	192,860	2	183,131	2	172,801	2	162,451	2	152,086	2	139,141	2	124,147	2	109,152		
1/4	1/4	1/4	192,736	1/4	182,915	1/4	172,586	1/4	162,235	1/4	151,870	1/4	138,829	1/4	123,834	1/4	108,839		
1/2	1/2	1/2	192,613	1/2	182,700	1/2	172,371	1/2	162,019	1/2	151,654	1/2	138,517	1/2	123,522	1/2	108,527		
3/4	3/4	3/4	192,489	3/4	182,485	3/4	172,156	3/4	161,804	3/4	151,438	3/4	138,204	3/4	123,210	3/4	108,214		
3	3	3	192,329	3	182,270	3	171,941	3	161,588	3	151,222	3	137,892	3	122,897	3	107,902		
1/4	1/4	1/4	192,170	1/4	182,055	1/4	171,725	1/4	161,372	1/4	151,006	1/4	137,579	1/4	122,585	1/4	107,589		
1/2	1/2	1/2	192,010	1/2	181,839	1/2	171,510	1/2	161,156	1/2	150,790	1/2	137,267	1/2	122,272	1/2	107,276		
3/4	3/4	3/4	191,850	3/4	181,624	3/4	171,295	3/4	160,940	3/4	150,574	3/4	136,955	3/4	121,960	3/4	106,964		
4	4	4	191,657	4	181,409	4	171,080	4	160,724	4	150,354	4	136,642	4	121,648	4	106,651		
1/4	1/4	1/4	191,464	1/4	181,194	1/4	170,865	1/4	160,508	1/4	150,135	1/4	136,330	1/4	121,335	1/4	106,338		
1/2	1/2	1/2	191,271	1/2	180,979	1/2	170,649	1/2	160,292	1/2	149,915	1/2	136,017	1/2	121,023	1/2	106,025		
3/4	3/4	3/4	191,078	3/4	180,763	3/4	170,434	3/4	160,076	3/4	149,696	3/4	135,705	3/4	120,710	3/4	105,712		
5	5	5	190,867	5	180,548	5	170,219	5	159,860	5	149,465	5	135,393	5	120,398	5	105,400		
1/4	1/4	1/4	190,655	1/4	180,333	1/4	170,004	1/4	159,644	1/4	149,234	1/4	135,080	1/4	120,086	1/4	105,087		
1/2	1/2	1/2	190,444	1/2	180,118	1/2	169,789	1/2	159,428	1/2	149,002	1/2	134,768	1/2	119,773	1/2	104,774		
3/4	3/4	3/4	190,232	3/4	179,903	3/4	169,573	3/4	159,212	3/4	148,771	3/4	134,456	3/4	119,461	3/4	104,461		
6	6	6	190,017	6	179,688	6	169,358	6	158,996	6	148,524	6	134,143	6	119,148	6	104,148		
1/4	1/4	1/4	189,802	1/4	179,472	1/4	169,143	1/4	158,780	1/4	148,277	1/4	133,831	1/4	118,836	1/4	103,836		
1/2	1/2	1/2	189,587	1/2	179,257	1/2	168,928	1/2	158,564	1/2	148,030	1/2	133,518	1/2	118,524	1/2	103,523		
3/4	3/4	3/4	189,372	3/4	179,042	3/4	168,713	3/4	158,348	3/4	147,782	3/4	133,206	3/4	118,211	3/4	103,210		
7	7	7	189,157	7	178,827	7	168,497	7	158,132	7	147,519	7	132,894	7	117,899	7	102,897		
1/4	1/4	1/4	188,942	1/4	178,612	1/4	168,281	1/4	157,916	1/4	147,256	1/4	132,581	1/4	117,587	1/4	102,584		
1/2	1/2	1/2	188,726	1/2	178,396	1/2	168,066	1/2	157,700	1/2	146,993	1/2	132,269	1/2	117,274	1/2	102,272		
3/4	3/4	3/4	188,511	3/4	178,181	3/4	167,850	3/4	157,484	3/4	146,729	3/4	131,956	3/4	116,962	3/4	101,959		
8	8	8	188,296	8	177,966	8	167,634	8	157,268	8	146,450	8	131,644	8	116,649	8	101,646		
1/4	1/4	1/4	188,081	1/4	177,751	1/4	167,418	1/4	157,053	1/4	146,171	1/4	131,332	1/4	116,337	1/4	101,333		
1/2	1/2	1/2	187,865	1/2	177,536	1/2	167,202	1/2	156,837	1/2	145,892	1/2	131,019	1/2	116,025	1/2	101,020		
3/4	3/4	3/4	187,650	3/4	177,320	3/4	166,986	3/4	156,621	3/4	145,613	3/4	130,707	3/4	115,712	3/4	100,708		
9	9	9	187,435	9	177,105	9	166,771	9	156,405	9	145,317	9	130,394	9	115,400	9	100,395		
1/4	1/4	1/4	187,219	1/4	176,890	1/4	166,555	1/4	156,189	1/4	145,022	1/4	130,082	1/4	115,087	1/4	100,082		
1/2	1/2	1/2	187,004	1/2	176,675	1/2	166,339	1/2	155,973	1/2	144,727	1/2	129,770	1/2	114,775	1/2	99,769		
3/4	3/4	3/4	186,789	3/4	176,460	3/4	166,123	3/4	155,757	3/4	144,432	3/4	129,457	3/4	114,463	3/4	99,456		
10	10	10	186,574	10	176,244	10	165,907	10	155,541	10	144,124	10	129,145	10	114,150	10	99,143		
1/4	1/4	1/4	186,359	1/4	176,029	1/4	165,691	1/4	155,325	1/4	143,816	1/4	128,833	1/4	113,838	1/4	98,831		
1/2	1/2	1/2	186,143	1/2	175,814	1/2	165,475	1/2	155,109	1/2	143,509	1/2	128,520	1/2	113,526	1/2	98,518		
3/4	3/4	3/4	185,928	3/4	175,599	3/4	165,259	3/4	154,893	3/4	143,201	3/4	128,208	3/4	113,213	3/4	98,205		
11	11	11	185,713	11	175,384	11	165,043	11	154,677	11	142,889	11	127,895	11	112,901	11	97,892		
1/4	1/4	1/4	185,498	1/4	175,168	1/4	164,827	1/4	154,461	1/4	142,577	1/4	127,583	1/4	112,588	1/4	97,579		
1/2	1/2	1/2	185,283	1/2	174,953	1/2	164,611	1/2	154,245	1/2	142,265	1/2	127,271	1/2	112,276	1/2	97,267		
3/4	3/4	3/4	185,067	3/4	174,738	3/4	164,395	3/4	154,029	3/4	141,953	3/4	126,958	3/4	111,964	3/4	96,954		

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



# BARGE "HFL 3011"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	81,626	0	66,612	0	51,597	0	36,598	0	21,586	0	6,572	0		0				0	
1/4	81,314	1/4	66,299	1/4	51,284	1/4	36,286	1/4	21,273	1/4	6,259	1/4		1/4				1/4	
1/2	81,001	1/2	65,986	1/2	50,971	1/2	35,973	1/2	20,961	1/2	5,946	1/2		1/2				1/2	
3/4	80,688	3/4	65,673	3/4	50,659	3/4	35,661	3/4	20,648	3/4	5,634	3/4		3/4				3/4	
1	80,375	1	65,361	1	50,346	1	35,348	1	20,335	1	5,321	1		1				1	
1/4	80,062	1/4	65,048	1/4	50,033	1/4	35,036	1/4	20,022	1/4	5,009	1/4		1/4				1/4	
1/2	79,750	1/2	64,735	1/2	49,720	1/2	34,723	1/2	19,709	1/2	4,696	1/2		1/2				1/2	
3/4	79,437	3/4	64,422	3/4	49,407	3/4	34,411	3/4	19,397	3/4	4,384	3/4		3/4				3/4	
2	79,124	2	64,109	2	49,095	2	34,098	2	19,084	2	4,072	2		2				2	
1/4	78,811	1/4	63,797	1/4	48,782	1/4	33,785	1/4	18,771	1/4	3,760	1/4		1/4				1/4	
1/2	78,498	1/2	63,484	1/2	48,469	1/2	33,472	1/2	18,458	1/2	3,448	1/2		1/2				1/2	
3/4	78,186	3/4	63,171	3/4	48,156	3/4	33,160	3/4	18,145	3/4	3,136	3/4		3/4				3/4	
3	77,873	3	62,858	3	47,844	3	32,847	3	17,833	3	2,844	3		3				3	
1/4	77,560	1/4	62,545	1/4	47,531	1/4	32,534	1/4	17,520	1/4	2,551	1/4		1/4				1/4	
1/2	77,247	1/2	62,232	1/2	47,218	1/2	32,221	1/2	17,207	1/2	2,259	1/2		1/2				1/2	
3/4	76,934	3/4	61,920	3/4	46,906	3/4	31,908	3/4	16,894	3/4	1,966	3/4		3/4				3/4	
4	76,622	4	61,607	4	46,593	4	31,596	4	16,581	4	1,732	4		4				4	
1/4	76,309	1/4	61,294	1/4	46,280	1/4	31,283	1/4	16,269	1/4	1,497	1/4		1/4				1/4	
1/2	75,996	1/2	60,981	1/2	45,968	1/2	30,970	1/2	15,956	1/2	1,263	1/2		1/2				1/2	
3/4	75,683	3/4	60,668	3/4	45,655	3/4	30,657	3/4	15,643	3/4	1,028	3/4		3/4				3/4	
5	75,370	5	60,356	5	45,343	5	30,344	5	15,330	5		5		5				5	
1/4	75,057	1/4	60,043	1/4	45,031	1/4	30,032	1/4	15,017	1/4		1/4		1/4				1/4	
1/2	74,745	1/2	59,730	1/2	44,718	1/2	29,719	1/2	14,705	1/2		1/2		1/2				1/2	
3/4	74,432	3/4	59,417	3/4	44,406	3/4	29,406	3/4	14,392	3/4		3/4		3/4				3/4	
6	74,119	6	59,104	6	44,093	6	29,093	6	14,079	6		6		6				6	
1/4	73,806	1/4	58,792	1/4	43,781	1/4	28,781	1/4	13,766	1/4		1/4		1/4				1/4	
1/2	73,493	1/2	58,479	1/2	43,469	1/2	28,468	1/2	13,454	1/2		1/2		1/2				1/2	
3/4	73,181	3/4	58,166	3/4	43,156	3/4	28,155	3/4	13,141	3/4		3/4		3/4				3/4	
7	72,868	7	57,853	7	42,844	7	27,842	7	12,828	7		7		7				7	
1/4	72,555	1/4	57,540	1/4	42,532	1/4	27,529	1/4	12,515	1/4		1/4		1/4				1/4	
1/2	72,242	1/2	57,228	1/2	42,220	1/2	27,217	1/2	12,202	1/2		1/2		1/2				1/2	
3/4	71,929	3/4	56,915	3/4	41,907	3/4	26,904	3/4	11,890	3/4		3/4		3/4				3/4	
8	71,617	8	56,602	8	41,595	8	26,591	8	11,577	8		8		8				8	
1/4	71,304	1/4	56,289	1/4	41,283	1/4	26,278	1/4	11,264	1/4		1/4		1/4				1/4	
1/2	70,991	1/2	55,976	1/2	40,970	1/2	25,965	1/2	10,951	1/2		1/2		1/2				1/2	
3/4	70,678	3/4	55,664	3/4	40,658	3/4	25,653	3/4	10,638	3/4		3/4		3/4				3/4	
9	70,365	9	55,351	9	40,346	9	25,340	9	10,326	9		9		9				9	
1/4	70,053	1/4	55,038	1/4	40,033	1/4	25,027	1/4	10,013	1/4		1/4		1/4				1/4	
1/2	69,740	1/2	54,725	1/2	39,721	1/2	24,714	1/2	9,700	1/2		1/2		1/2				1/2	
3/4	69,427	3/4	54,412	3/4	39,409	3/4	24,401	3/4	9,387	3/4		3/4		3/4				3/4	
10	69,114	10	54,100	10	39,096	10	24,089	10	9,074	10		10		10				10	
1/4	68,801	1/4	53,787	1/4	38,784	1/4	23,776	1/4	8,762	1/4		1/4		1/4				1/4	
1/2	68,489	1/2	53,474	1/2	38,472	1/2	23,463	1/2	8,449	1/2		1/2		1/2				1/2	
3/4	68,176	3/4	53,161	3/4	38,160	3/4	23,150	3/4	8,136	3/4		3/4		3/4				3/4	
11	67,863	11	52,848	11	37,847	11	22,837	11	7,823	11		11		11				11	
1/4	67,550	1/4	52,536	1/4	37,535	1/4	22,525	1/4	7,510	1/4		1/4		1/4				1/4	
1/2	67,237	1/2	52,223	1/2	37,223	1/2	22,212	1/2	7,198	1/2		1/2		1/2				1/2	
3/4	66,925	3/4	51,910	3/4	36,910	3/4	21,899	3/4	6,885	3/4		3/4		3/4				3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.				
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT			
0	0	0	0	184,438	0	174,098	0	163,745	0	153,369	0	141,389	0	126,412	0	111,435	0	96,445				
1/4		1/4		184,222	1/4	173,882	1/4	163,529	1/4	153,152	1/4	141,077	1/4	126,100	1/4	111,123	1/4	96,133				
1/2		1/2		184,007	1/2	173,667	1/2	163,313	1/2	152,936	1/2	140,765	1/2	125,788	1/2	110,811	1/2	95,820				
3/4		3/4		183,791	3/4	173,452	3/4	163,096	3/4	152,720	3/4	140,453	3/4	125,476	3/4	110,499	3/4	95,508				
1	1	1	1	183,576	1	173,236	1	162,880	1	152,504	1	140,141	1	125,164	1	110,187	1	95,196				
1/4		1/4		183,361	1/4	173,021	1/4	162,664	1/4	152,288	1/4	139,829	1/4	124,852	1/4	109,875	1/4	94,884				
1/2		1/2		183,145	1/2	172,805	1/2	162,448	1/2	152,072	1/2	139,517	1/2	124,540	1/2	109,563	1/2	94,572				
3/4		3/4		182,930	3/4	172,590	3/4	162,232	3/4	151,855	3/4	139,205	3/4	124,228	3/4	109,251	3/4	94,260				
2	2	2	2	182,714	2	172,374	2	162,016	2	151,639	2	138,893	2	123,916	2	108,939	2	93,947				
1/4		1/4	192,146	182,499	1/4	172,159	1/4	161,799	1/4	151,423	1/4	138,581	1/4	123,604	1/4	108,627	1/4	93,635				
1/2		1/2	192,022	182,283	1/2	171,944	1/2	161,583	1/2	151,207	1/2	138,269	1/2	123,292	1/2	108,315	1/2	93,323				
3/4		3/4	191,899	182,068	3/4	171,728	3/4	161,367	3/4	150,991	3/4	137,957	3/4	122,980	3/4	108,002	3/4	93,011				
3	3	3	3	181,775	3	181,853	3	171,513	3	161,151	3	150,775	3	137,645	3	122,668	3	107,690	3	92,699		
1/4		1/4	191,651	181,637	1/4	171,297	1/4	160,935	1/4	150,558	1/4	137,333	1/4	122,356	1/4	107,378	1/4	92,386				
1/2		1/2	191,492	181,422	1/2	171,082	1/2	160,719	1/2	150,342	1/2	137,021	1/2	122,044	1/2	107,066	1/2	92,074				
3/4		3/4	191,332	181,206	3/4	170,867	3/4	160,502	3/4	150,126	3/4	136,709	3/4	121,732	3/4	106,754	3/4	91,762				
4	4	4	4	191,172	4	180,991	4	170,651	4	160,286	4	149,910	4	136,397	4	121,420	4	106,441	4	91,450		
1/4		1/4	191,012	180,776	1/4	170,436	1/4	160,070	1/4	149,694	1/4	136,085	1/4	121,108	1/4	106,129	1/4	91,138				
1/2		1/2	190,819	180,560	1/2	170,220	1/2	159,854	1/2	149,474	1/2	135,773	1/2	120,796	1/2	105,817	1/2	90,825				
3/4		3/4	190,626	180,345	3/4	170,005	3/4	159,638	3/4	149,254	3/4	135,461	3/4	120,484	3/4	105,504	3/4	90,513				
5	5	5	5	190,432	5	180,129	5	169,790	5	159,422	5	149,035	5	135,149	5	120,172	5	105,192	5	90,201		
1/4		1/4	190,239	179,914	1/4	169,574	1/4	159,205	1/4	148,815	1/4	134,837	1/4	119,860	1/4	104,879	1/4	89,889				
1/2		1/2	190,027	179,699	1/2	169,359	1/2	158,989	1/2	148,584	1/2	134,525	1/2	119,548	1/2	104,567	1/2	89,577				
3/4		3/4	189,816	179,483	3/4	169,143	3/4	158,773	3/4	148,352	3/4	134,213	3/4	119,236	3/4	104,254	3/4	89,265				
6	6	6	6	189,604	6	179,268	6	168,928	6	158,557	6	148,121	6	133,901	6	118,924	6	103,942	6	88,952		
1/4		1/4	189,392	179,052	1/4	168,712	1/4	158,341	1/4	147,890	1/4	133,589	1/4	118,612	1/4	103,630	1/4	88,640				
1/2		1/2	189,177	178,837	1/2	168,497	1/2	158,124	1/2	147,642	1/2	133,277	1/2	118,300	1/2	103,317	1/2	88,328				
3/4		3/4	188,962	178,621	3/4	168,282	3/4	157,908	3/4	147,395	3/4	132,965	3/4	117,988	3/4	103,005	3/4	88,016				
7	7	7	7	188,747	7	178,406	7	168,066	7	157,692	7	147,148	7	132,653	7	117,676	7	102,692	7	87,703		
1/4		1/4	188,531	178,191	1/4	167,851	1/4	157,476	1/4	146,900	1/4	132,340	1/4	117,364	1/4	102,380	1/4	87,391				
1/2		1/2	188,316	177,975	1/2	167,635	1/2	157,260	1/2	146,637	1/2	132,028	1/2	117,052	1/2	102,067	1/2	87,078				
3/4		3/4	188,100	177,760	3/4	167,419	3/4	157,044	3/4	146,374	3/4	131,716	3/4	116,740	3/4	101,755	3/4	86,766				
8	8	8	8	187,885	8	177,544	8	167,203	8	156,827	8	146,111	8	131,404	8	116,427	8	101,443	8	86,453		
1/4		1/4	187,670	177,329	1/4	166,988	1/4	156,611	1/4	145,848	1/4	131,092	1/4	116,115	1/4	101,130	1/4	86,141				
1/2		1/2	187,454	177,114	1/2	166,771	1/2	156,395	1/2	145,569	1/2	130,780	1/2	115,803	1/2	100,818	1/2	85,828				
3/4		3/4	187,238	176,898	3/4	166,555	3/4	156,179	3/4	145,290	3/4	130,468	3/4	115,491	3/4	100,505	3/4	85,516				
9	9	9	9	187,023	9	176,683	9	166,339	9	155,963	9	145,011	9	130,156	9	115,179	9	100,193	9	85,203		
1/4		1/4	186,807	176,467	1/4	166,123	1/4	155,747	1/4	144,732	1/4	129,844	1/4	114,867	1/4	99,880	1/4	84,891				
1/2		1/2	186,592	176,252	1/2	165,907	1/2	155,530	1/2	144,438	1/2	129,532	1/2	114,555	1/2	99,568	1/2	84,578				
3/4		3/4	186,376	176,037	3/4	165,691	3/4	155,314	3/4	144,143	3/4	129,220	3/4	114,243	3/4	99,255	3/4	84,266				
10	10	10	10	186,161	10	175,821	10	165,474	10	155,098	10	143,848	10	128,908	10	113,931	10	98,943	10	83,953		
1/4		1/4	185,946	175,606	1/4	165,258	1/4	154,882	1/4	143,553	1/4	128,596	1/4	113,619	1/4	98,631	1/4	83,641				
1/2		1/2	185,730	175,390	1/2	165,042	1/2	154,666	1/2	143,246	1/2	128,284	1/2	113,307	1/2	98,318	1/2	83,328				
3/4		3/4	185,515	175,175	3/4	164,826	3/4	154,450	3/4	142,938	3/4	127,972	3/4	112,995	3/4	98,006	3/4	83,016				
11	11	11	11	185,299	11	174,959	11	164,610	11	154,233	11	142,631	11	127,660	11	112,683	11	97,694	11	82,703		
1/4		1/4	185,084	174,744	1/4	164,394	1/4	154,017	1/4	142,324	1/4	127,348	1/4	112,371	1/4	97,381	1/4	82,391				
1/2		1/2	184,868	174,529	1/2	164,177	1/2	153,801	1/2	142,012	1/2	127,036	1/2	112,059	1/2	97,069	1/2	82,078				
3/4		3/4	184,653	174,313	3/4	163,961	3/4	153,585	3/4	141,700	3/4	126,724	3/4	111,747	3/4	96,757	3/4	81,766				

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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





# BARGE "HFL 3011"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	81,453	0	66,526	0	51,771	0	37,185	0	22,210	0	7,202	0		0				0	
1/4	81,141	1/4	66,216	1/4	51,468	1/4	36,880	1/4	21,897	1/4	6,889	1/4		1/4				1/4	
1/2	80,828	1/2	65,905	1/2	51,166	1/2	36,571	1/2	21,585	1/2	6,576	1/2		1/2				1/2	
3/4	80,516	3/4	65,594	3/4	50,863	3/4	36,263	3/4	21,272	3/4	6,263	3/4		3/4				3/4	
1	80,203	1	65,284	1	50,560	1	35,954	1	20,960	1	5,951	1		1				1	
1/4	79,891	1/4	64,973	1/4	50,258	1/4	35,646	1/4	20,647	1/4	5,638	1/4		1/4				1/4	
1/2	79,578	1/2	64,663	1/2	49,955	1/2	35,334	1/2	20,334	1/2	5,325	1/2		1/2				1/2	
3/4	79,266	3/4	64,352	3/4	49,652	3/4	35,022	3/4	20,022	3/4	5,013	3/4		3/4				3/4	
2	78,953	2	64,042	2	49,350	2	34,710	2	19,709	2	4,700	2		2				2	
1/4	78,641	1/4	63,731	1/4	49,047	1/4	34,398	1/4	19,397	1/4	4,387	1/4		1/4				1/4	
1/2	78,329	1/2	63,420	1/2	48,744	1/2	34,085	1/2	19,084	1/2	4,075	1/2		1/2				1/2	
3/4	78,018	3/4	63,109	3/4	48,442	3/4	33,773	3/4	18,772	3/4	3,763	3/4		3/4				3/4	
3	77,706	3	62,797	3	48,139	3	33,460	3	18,459	3	3,451	3		3				3	
1/4	77,395	1/4	62,486	1/4	47,836	1/4	33,148	1/4	18,147	1/4	3,139	1/4		1/4				1/4	
1/2	77,084	1/2	62,174	1/2	47,534	1/2	32,835	1/2	17,834	1/2	2,846	1/2		1/2				1/2	
3/4	76,774	3/4	61,861	3/4	47,232	3/4	32,522	3/4	17,521	3/4	2,553	3/4		3/4				3/4	
4	76,463	4	61,549	4	46,929	4	32,210	4	17,209	4	2,261	4		4				4	
1/4	76,153	1/4	61,237	1/4	46,627	1/4	31,897	1/4	16,896	1/4	1,968	1/4		1/4				1/4	
1/2	75,842	1/2	60,925	1/2	46,325	1/2	31,585	1/2	16,584	1/2	1,733	1/2		1/2				1/2	
3/4	75,532	3/4	60,613	3/4	46,023	3/4	31,272	3/4	16,271	3/4	1,498	3/4		3/4				3/4	
5	75,221	5	60,300	5	45,721	5	30,960	5	15,959	5	1,264	5		5				5	
1/4	74,911	1/4	59,988	1/4	45,419	1/4	30,647	1/4	15,646	1/4	1,029	1/4		1/4				1/4	
1/2	74,600	1/2	59,679	1/2	45,116	1/2	30,335	1/2	15,333	1/2		1/2		1/2				1/2	
3/4	74,289	3/4	59,370	3/4	44,812	3/4	30,022	3/4	15,021	3/4		3/4		3/4				3/4	
6	73,979	6	59,061	6	44,509	6	29,710	6	14,708	6		6		6				6	
1/4	73,668	1/4	58,752	1/4	44,205	1/4	29,397	1/4	14,396	1/4		1/4		1/4				1/4	
1/2	73,358	1/2	58,446	1/2	43,900	1/2	29,085	1/2	14,083	1/2		1/2		1/2				1/2	
3/4	73,047	3/4	58,140	3/4	43,595	3/4	28,772	3/4	13,771	3/4		3/4		3/4				3/4	
7	72,737	7	57,835	7	43,289	7	28,460	7	13,458	7		7		7				7	
1/4	72,426	1/4	57,529	1/4	42,984	1/4	28,148	1/4	13,146	1/4		1/4		1/4				1/4	
1/2	72,116	1/2	57,224	1/2	42,679	1/2	27,835	1/2	12,833	1/2		1/2		1/2				1/2	
3/4	71,805	3/4	56,920	3/4	42,374	3/4	27,523	3/4	12,520	3/4		3/4		3/4				3/4	
8	71,495	8	56,616	8	42,068	8	27,210	8	12,208	8		8		8				8	
1/4	71,184	1/4	56,311	1/4	41,763	1/4	26,898	1/4	11,895	1/4		1/4		1/4				1/4	
1/2	70,874	1/2	56,009	1/2	41,458	1/2	26,586	1/2	11,582	1/2		1/2		1/2				1/2	
3/4	70,563	3/4	55,706	3/4	41,153	3/4	26,273	3/4	11,270	3/4		3/4		3/4				3/4	
9	70,252	9	55,403	9	40,848	9	25,961	9	10,957	9		9		9				9	
1/4	69,942	1/4	55,101	1/4	40,542	1/4	25,648	1/4	10,644	1/4		1/4		1/4				1/4	
1/2	69,631	1/2	54,798	1/2	40,237	1/2	25,336	1/2	10,331	1/2		1/2		1/2				1/2	
3/4	69,321	3/4	54,495	3/4	39,932	3/4	25,023	3/4	10,018	3/4		3/4		3/4				3/4	
10	69,010	10	54,193	10	39,627	10	24,710	10	9,705	10		10		10				10	
1/4	68,700	1/4	53,890	1/4	39,321	1/4	24,398	1/4	9,392	1/4		1/4		1/4				1/4	
1/2	68,389	1/2	53,587	1/2	39,016	1/2	24,085	1/2	9,079	1/2		1/2		1/2				1/2	
3/4	68,079	3/4	53,285	3/4	38,711	3/4	23,773	3/4	8,766	3/4		3/4		3/4				3/4	
11	67,768	11	52,982	11	38,406	11	23,460	11	8,453	11		11		11				11	
1/4	67,458	1/4	52,679	1/4	38,100	1/4	23,148	1/4	8,140	1/4		1/4		1/4				1/4	
1/2	67,147	1/2	52,377	1/2	37,795	1/2	22,835	1/2	7,827	1/2		1/2		1/2				1/2	
3/4	66,837	3/4	52,074	3/4	37,490	3/4	22,522	3/4	7,514	3/4		3/4		3/4				3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	201,934	0	186,930	0	171,904	0	156,849	0	141,793	0	126,738	0	111,682	0	96,620
1/4		1/4		1/4	201,622	1/4	186,617	1/4	171,590	1/4	156,535	1/4	141,479	1/4	126,424	1/4	111,369	1/4	96,306
1/2		1/2		1/2	201,309	1/2	186,305	1/2	171,277	1/2	156,221	1/2	141,166	1/2	126,110	1/2	111,055	1/2	95,992
3/4		3/4		3/4	200,996	3/4	185,992	3/4	170,963	3/4	155,908	3/4	140,852	3/4	125,797	3/4	110,741	3/4	95,678
1	1	1	1	1	200,684	1	185,679	1	170,649	1	155,594	1	140,539	1	125,483	1	110,427	1	95,365
1/4		1/4		1/4	200,371	1/4	185,367	1/4	170,336	1/4	155,280	1/4	140,225	1/4	125,169	1/4	110,114	1/4	95,051
1/2		1/2		1/2	213,974	1/2	200,059	1/2	185,054	1/2	170,022	1/2	154,967	1/2	139,911	1/2	124,856	1/2	109,800
3/4		3/4		3/4	213,795	3/4	199,746	3/4	184,742	3/4	169,708	3/4	154,653	3/4	139,598	3/4	124,542	3/4	109,486
2	2	2	2	2	213,616	2	199,433	2	184,429	2	169,395	2	154,339	2	139,284	2	124,228	2	109,172
1/4		1/4		1/4	213,438	1/4	199,121	1/4	184,116	1/4	169,081	1/4	154,026	1/4	138,970	1/4	123,915	1/4	108,859
1/2		1/2		1/2	213,259	1/2	198,808	1/2	183,804	1/2	168,768	1/2	153,712	1/2	138,657	1/2	123,601	1/2	108,545
3/4		3/4		3/4	213,028	3/4	198,496	3/4	183,491	3/4	168,454	3/4	153,398	3/4	138,343	3/4	123,287	3/4	108,231
3	3	3	3	3	212,796	3	198,183	3	183,179	3	168,140	3	153,085	3	138,029	3	122,974	3	107,917
1/4		1/4		1/4	212,565	1/4	197,870	1/4	182,866	1/4	167,827	1/4	152,771	1/4	137,716	1/4	122,660	1/4	107,603
1/2		1/2		1/2	212,334	1/2	197,558	1/2	182,553	1/2	167,513	1/2	152,457	1/2	137,402	1/2	122,347	1/2	107,289
3/4		3/4		3/4	212,054	3/4	197,245	3/4	182,241	3/4	167,199	3/4	152,144	3/4	137,088	3/4	122,033	3/4	106,976
4	4	4	4	4	211,774	4	196,933	4	181,928	4	166,886	4	151,830	4	136,775	4	121,719	4	106,662
1/4		1/4		1/4	211,495	1/4	196,620	1/4	181,616	1/4	166,572	1/4	151,516	1/4	136,461	1/4	121,406	1/4	106,348
1/2		1/2		1/2	211,215	1/2	196,307	1/2	181,303	1/2	166,258	1/2	151,203	1/2	136,147	1/2	121,092	1/2	106,034
3/4		3/4		3/4	210,910	3/4	195,995	3/4	180,990	3/4	165,945	3/4	150,889	3/4	135,834	3/4	120,778	3/4	105,720
5	5	5	5	5	210,604	5	195,682	5	180,678	5	165,631	5	150,575	5	135,520	5	120,465	5	105,407
1/4		1/4		1/4	210,299	1/4	195,370	1/4	180,365	1/4	165,317	1/4	150,262	1/4	135,206	1/4	120,151	1/4	105,093
1/2		1/2		1/2	209,993	1/2	195,057	1/2	180,053	1/2	165,004	1/2	149,948	1/2	134,893	1/2	119,837	1/2	104,779
3/4		3/4		3/4	209,684	3/4	194,745	3/4	179,740	3/4	164,690	3/4	149,635	3/4	134,579	3/4	119,524	3/4	104,465
6	6	6	6	6	209,375	6	194,432	6	179,428	6	164,376	6	149,321	6	134,265	6	119,210	6	104,151
1/4		1/4		1/4	209,066	1/4	194,119	1/4	179,115	1/4	164,063	1/4	149,007	1/4	133,952	1/4	118,896	1/4	103,838
1/2		1/2		1/2	208,757	1/2	193,807	1/2	178,802	1/2	163,749	1/2	148,694	1/2	133,638	1/2	118,583	1/2	103,524
3/4		3/4		3/4	208,447	3/4	193,494	3/4	178,489	3/4	163,435	3/4	148,380	3/4	133,324	3/4	118,269	3/4	103,210
7	7	7	7	7	208,137	7	193,182	7	178,176	7	163,122	7	148,066	7	133,011	7	117,955	7	102,896
1/4		1/4		1/4	207,828	1/4	192,869	1/4	177,863	1/4	162,808	1/4	147,753	1/4	132,697	1/4	117,642	1/4	102,582
1/2		1/2		1/2	207,518	1/2	192,556	1/2	177,550	1/2	162,494	1/2	147,439	1/2	132,383	1/2	117,328	1/2	102,268
3/4		3/4		3/4	207,209	3/4	192,244	3/4	177,236	3/4	162,181	3/4	147,125	3/4	132,070	3/4	117,014	3/4	101,955
8	8	8	8	8	206,899	8	191,931	8	176,923	8	161,867	8	146,812	8	131,756	8	116,701	8	101,641
1/4		1/4		1/4	206,589	1/4	191,619	1/4	176,609	1/4	161,553	1/4	146,498	1/4	131,443	1/4	116,387	1/4	101,327
1/2		1/2		1/2	206,280	1/2	191,306	1/2	176,295	1/2	161,240	1/2	146,184	1/2	131,129	1/2	116,073	1/2	101,013
3/4		3/4		3/4	205,970	3/4	190,993	3/4	175,982	3/4	160,926	3/4	145,871	3/4	130,815	3/4	115,760	3/4	100,699
9	9	9	9	9	205,661	9	190,681	9	175,668	9	160,612	9	145,557	9	130,502	9	115,446	9	100,386
1/4		1/4		1/4	205,351	1/4	190,368	1/4	175,354	1/4	160,299	1/4	145,243	1/4	130,188	1/4	115,132	1/4	100,072
1/2		1/2		1/2	205,041	1/2	190,056	1/2	175,041	1/2	159,985	1/2	144,930	1/2	129,874	1/2	114,819	1/2	99,758
3/4		3/4		3/4	204,732	3/4	189,743	3/4	174,727	3/4	159,672	3/4	144,616	3/4	129,561	3/4	114,505	3/4	99,444
10	10	10	10	10	204,422	10	189,430	10	174,413	10	159,358	10	144,302	10	129,247	10	114,191	10	99,130
1/4		1/4		1/4	204,113	1/4	189,118	1/4	174,100	1/4	159,044	1/4	143,989	1/4	128,933	1/4	113,878	1/4	98,817
1/2		1/2		1/2	203,803	1/2	188,805	1/2	173,786	1/2	158,731	1/2	143,675	1/2	128,620	1/2	113,564	1/2	98,503
3/4		3/4		3/4	203,492	3/4	188,493	3/4	173,472	3/4	158,417	3/4	143,361	3/4	128,306	3/4	113,251	3/4	98,189
11	11	11	11	11	203,181	11	188,180	11	173,159	11	158,103	11	143,048	11	127,992	11	112,937	11	97,875
1/4		1/4		1/4	202,870	1/4	187,867	1/4	172,845	1/4	157,790	1/4	142,734	1/4	127,679	1/4	112,623	1/4	97,561
1/2		1/2		1/2	202,559	1/2	187,555	1/2	172,531	1/2	157,476	1/2	142,420	1/2	127,365	1/2	112,310	1/2	97,247
3/4		3/4		3/4	202,247	3/4	187,242	3/4	172,218	3/4	157,162	3/4	142,107	3/4	127,051	3/4	111,996	3/4	96,934

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 THREADS ON "MMC" VALVE  
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

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





# BARGE "HFL 3011"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	81,557	0	66,494	0	51,432	0	36,403	0	21,343	0	6,280	0		0					0
1/4	81,243	1/4	66,180	1/4	51,118	1/4	36,089	1/4	21,029	1/4	5,966	1/4		1/4					1/4
1/2	80,929	1/2	65,866	1/2	50,805	1/2	35,776	1/2	20,715	1/2	5,652	1/2		1/2					1/2
3/4	80,615	3/4	65,552	3/4	50,492	3/4	35,462	3/4	20,401	3/4	5,338	3/4		3/4					3/4
1	80,302	1	65,239	1	50,178	1	35,148	1	20,087	1	5,025	1		1					1
1/4	79,988	1/4	64,925	1/4	49,865	1/4	34,834	1/4	19,773	1/4	4,711	1/4		1/4					1/4
1/2	79,674	1/2	64,611	1/2	49,552	1/2	34,520	1/2	19,460	1/2	4,398	1/2		1/2					1/2
3/4	79,360	3/4	64,297	3/4	49,239	3/4	34,207	3/4	19,146	3/4	4,085	3/4		3/4					3/4
2	79,046	2	63,983	2	48,926	2	33,893	2	18,832	2	3,772	2		2					2
1/4	78,733	1/4	63,670	1/4	48,613	1/4	33,579	1/4	18,518	1/4	3,459	1/4		1/4					1/4
1/2	78,419	1/2	63,356	1/2	48,300	1/2	33,265	1/2	18,204	1/2	3,147	1/2		1/2					1/2
3/4	78,105	3/4	63,042	3/4	47,987	3/4	32,951	3/4	17,891	3/4	2,853	3/4		3/4					3/4
3	77,791	3	62,728	3	47,674	3	32,637	3	17,577	3	2,560	3		3					3
1/4	77,477	1/4	62,414	1/4	47,362	1/4	32,324	1/4	17,263	1/4	2,266	1/4		1/4					1/4
1/2	77,163	1/2	62,100	1/2	47,049	1/2	32,010	1/2	16,949	1/2	1,973	1/2		1/2					1/2
3/4	76,850	3/4	61,787	3/4	46,736	3/4	31,696	3/4	16,635	3/4	1,738	3/4		3/4					3/4
4	76,536	4	61,473	4	46,423	4	31,382	4	16,322	4	1,502	4		4					4
1/4	76,222	1/4	61,159	1/4	46,110	1/4	31,068	1/4	16,008	1/4	1,267	1/4		1/4					1/4
1/2	75,908	1/2	60,845	1/2	45,797	1/2	30,755	1/2	15,694	1/2	1,032	1/2		1/2					1/2
3/4	75,594	3/4	60,531	3/4	45,484	3/4	30,441	3/4	15,380	3/4		3/4		3/4					3/4
5	75,281	5	60,218	5	45,171	5	30,127	5	15,066	5		5		5					5
1/4	74,967	1/4	59,904	1/4	44,858	1/4	29,813	1/4	14,752	1/4		1/4		1/4					1/4
1/2	74,653	1/2	59,590	1/2	44,546	1/2	29,500	1/2	14,439	1/2		1/2		1/2					1/2
3/4	74,339	3/4	59,276	3/4	44,233	3/4	29,186	3/4	14,125	3/4		3/4		3/4					3/4
6	74,025	6	58,962	6	43,920	6	28,872	6	13,811	6		6		6					6
1/4	73,712	1/4	58,649	1/4	43,607	1/4	28,559	1/4	13,497	1/4		1/4		1/4					1/4
1/2	73,398	1/2	58,335	1/2	43,294	1/2	28,245	1/2	13,183	1/2		1/2		1/2					1/2
3/4	73,084	3/4	58,021	3/4	42,981	3/4	27,932	3/4	12,870	3/4		3/4		3/4					3/4
7	72,770	7	57,707	7	42,668	7	27,618	7	12,556	7		7		7					7
1/4	72,456	1/4	57,393	1/4	42,355	1/4	27,304	1/4	12,242	1/4		1/4		1/4					1/4
1/2	72,142	1/2	57,079	1/2	42,043	1/2	26,991	1/2	11,928	1/2		1/2		1/2					1/2
3/4	71,829	3/4	56,766	3/4	41,730	3/4	26,677	3/4	11,614	3/4		3/4		3/4					3/4
8	71,515	8	56,452	8	41,417	8	26,363	8	11,301	8		8		8					8
1/4	71,201	1/4	56,138	1/4	41,104	1/4	26,050	1/4	10,987	1/4		1/4		1/4					1/4
1/2	70,887	1/2	55,824	1/2	40,791	1/2	25,736	1/2	10,673	1/2		1/2		1/2					1/2
3/4	70,573	3/4	55,510	3/4	40,478	3/4	25,422	3/4	10,359	3/4		3/4		3/4					3/4
9	70,260	9	55,197	9	40,165	9	25,108	9	10,045	9		9		9					9
1/4	69,946	1/4	54,883	1/4	39,852	1/4	24,794	1/4	9,732	1/4		1/4		1/4					1/4
1/2	69,632	1/2	54,569	1/2	39,539	1/2	24,481	1/2	9,418	1/2		1/2		1/2					1/2
3/4	69,318	3/4	54,255	3/4	39,226	3/4	24,167	3/4	9,104	3/4		3/4		3/4					3/4
10	69,004	10	53,941	10	38,913	10	23,853	10	8,790	10		10		10					10
1/4	68,691	1/4	53,628	1/4	38,599	1/4	23,539	1/4	8,476	1/4		1/4		1/4					1/4
1/2	68,377	1/2	53,314	1/2	38,286	1/2	23,225	1/2	8,162	1/2		1/2		1/2					1/2
3/4	68,063	3/4	53,000	3/4	37,972	3/4	22,912	3/4	7,849	3/4		3/4		3/4					3/4
11	67,749	11	52,686	11	37,658	11	22,598	11	7,535	11		11		11					11
1/4	67,435	1/4	52,372	1/4	37,345	1/4	22,284	1/4	7,221	1/4		1/4		1/4					1/4
1/2	67,121	1/2	52,058	1/2	37,031	1/2	21,970	1/2	6,907	1/2		1/2		1/2					1/2
3/4	66,808	3/4	51,745	3/4	36,717	3/4	21,656	3/4	6,593	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	201,018	0	186,021	0	171,004	0	155,956	0	140,908	0	125,859	0	110,811	0	95,756
1/4		1/4		1/4	200,706	1/4	185,709	1/4	170,690	1/4	155,642	1/4	140,594	1/4	125,546	1/4	110,498	1/4	95,443
1/2		1/2		1/2	200,393	1/2	185,396	1/2	170,377	1/2	155,329	1/2	140,281	1/2	125,232	1/2	110,184	1/2	95,129
3/4		3/4		3/4	200,081	3/4	185,084	3/4	170,063	3/4	155,015	3/4	139,967	3/4	124,919	3/4	109,871	3/4	94,815
1	1	1	1	1	199,768	1	184,771	1	169,750	1	154,702	1	139,654	1	124,605	1	109,557	1	94,502
1/4		1/4		1/4	199,456	1/4	184,459	1/4	169,436	1/4	154,388	1/4	139,340	1/4	124,292	1/4	109,244	1/4	94,188
1/2		1/2		1/2	199,144	1/2	184,146	1/2	169,123	1/2	154,075	1/2	139,027	1/2	123,978	1/2	108,930	1/2	93,874
3/4		3/4		3/4	212,740	3/4	198,831	3/4	183,834	3/4	168,809	3/4	153,761	3/4	138,713	3/4	123,665	3/4	93,561
2	2	2	2	2	198,519	2	183,522	2	168,496	2	153,448	2	138,400	2	123,351	2	108,303	2	93,247
1/4		1/4		1/4	198,206	1/4	183,209	1/4	168,182	1/4	153,134	1/4	138,086	1/4	123,038	1/4	107,989	1/4	92,933
1/2		1/2		1/2	197,894	1/2	182,897	1/2	167,869	1/2	152,821	1/2	137,773	1/2	122,724	1/2	107,675	1/2	92,620
3/4		3/4		3/4	212,025	3/4	197,581	3/4	182,584	3/4	167,555	3/4	152,507	3/4	137,459	3/4	122,411	3/4	92,306
3	3	3	3	3	197,269	3	182,272	3	167,242	3	152,194	3	137,146	3	122,097	3	107,048	3	91,992
1/4		1/4		1/4	196,956	1/4	181,959	1/4	166,928	1/4	151,880	1/4	136,832	1/4	121,784	1/4	106,734	1/4	91,679
1/2		1/2		1/2	211,332	1/2	196,644	1/2	181,647	1/2	166,615	1/2	151,567	1/2	136,518	1/2	121,470	1/2	91,365
3/4		3/4		3/4	211,100	3/4	196,332	3/4	181,335	3/4	166,301	3/4	151,253	3/4	136,205	3/4	121,157	3/4	91,051
4	4	4	4	4	196,019	4	181,022	4	165,988	4	150,940	4	135,891	4	120,843	4	105,793	4	90,738
1/4		1/4		1/4	195,707	1/4	180,710	1/4	165,674	1/4	150,626	1/4	135,578	1/4	120,530	1/4	105,480	1/4	90,424
1/2		1/2		1/2	210,262	1/2	195,394	1/2	180,397	1/2	165,361	1/2	150,313	1/2	135,264	1/2	120,216	1/2	90,110
3/4		3/4		3/4	209,982	3/4	195,082	3/4	180,085	3/4	165,047	3/4	149,999	3/4	134,951	3/4	119,903	3/4	89,797
5	5	5	5	5	194,769	5	179,772	5	164,734	5	149,686	5	134,637	5	119,589	5	104,539	5	89,483
1/4		1/4		1/4	209,372	1/4	194,457	1/4	179,460	1/4	164,420	1/4	149,372	1/4	134,324	1/4	119,276	1/4	89,169
1/2		1/2		1/2	209,066	1/2	194,145	1/2	179,147	1/2	164,107	1/2	149,059	1/2	134,010	1/2	118,962	1/2	88,856
3/4		3/4		3/4	208,761	3/4	193,832	3/4	178,835	3/4	163,793	3/4	148,745	3/4	133,697	3/4	118,649	3/4	88,542
6	6	6	6	6	193,520	6	178,523	6	163,480	6	148,432	6	133,383	6	118,335	6	103,284	6	88,228
1/4		1/4		1/4	208,143	1/4	193,207	1/4	178,210	1/4	163,166	1/4	148,118	1/4	133,070	1/4	118,022	1/4	87,915
1/2		1/2		1/2	207,834	1/2	192,895	1/2	177,898	1/2	162,853	1/2	147,805	1/2	132,756	1/2	117,708	1/2	87,601
3/4		3/4		3/4	207,525	3/4	192,582	3/4	177,585	3/4	162,539	3/4	147,491	3/4	132,443	3/4	117,395	3/4	87,287
7	7	7	7	7	192,270	7	177,272	7	162,226	7	147,178	7	132,129	7	117,081	7	102,030	7	86,974
1/4		1/4		1/4	206,906	1/4	191,957	1/4	176,959	1/4	161,912	1/4	146,864	1/4	131,816	1/4	116,768	1/4	86,660
1/2		1/2		1/2	206,597	1/2	191,645	1/2	176,646	1/2	161,599	1/2	146,551	1/2	131,502	1/2	116,454	1/2	86,347
3/4		3/4		3/4	206,287	3/4	191,333	3/4	176,333	3/4	161,285	3/4	146,237	3/4	131,189	3/4	116,141	3/4	86,033
8	8	8	8	8	191,020	8	176,020	8	160,972	8	145,924	8	130,875	8	115,827	8	100,775	8	85,719
1/4		1/4		1/4	205,668	1/4	190,708	1/4	175,706	1/4	160,658	1/4	145,610	1/4	130,562	1/4	115,514	1/4	85,406
1/2		1/2		1/2	205,359	1/2	190,395	1/2	175,393	1/2	160,345	1/2	145,297	1/2	130,248	1/2	115,200	1/2	85,092
3/4		3/4		3/4	205,049	3/4	190,083	3/4	175,079	3/4	160,031	3/4	144,983	3/4	129,935	3/4	114,887	3/4	84,778
9	9	9	9	9	189,770	9	174,766	9	159,718	9	144,670	9	129,621	9	114,573	9	99,520	9	84,465
1/4		1/4		1/4	204,430	1/4	189,458	1/4	174,452	1/4	159,404	1/4	144,356	1/4	129,308	1/4	114,260	1/4	84,151
1/2		1/2		1/2	204,121	1/2	189,146	1/2	174,139	1/2	159,091	1/2	144,043	1/2	128,994	1/2	113,946	1/2	83,837
3/4		3/4		3/4	203,812	3/4	188,833	3/4	173,825	3/4	158,777	3/4	143,729	3/4	128,681	3/4	113,633	3/4	83,524
10	10	10	10	10	188,521	10	173,512	10	158,464	10	143,416	10	128,367	10	113,319	10	98,266	10	83,210
1/4		1/4		1/4	203,193	1/4	188,208	1/4	173,198	1/4	158,150	1/4	143,102	1/4	128,054	1/4	113,006	1/4	82,896
1/2		1/2		1/2	202,884	1/2	187,896	1/2	172,885	1/2	157,837	1/2	142,789	1/2	127,740	1/2	112,692	1/2	82,583
3/4		3/4		3/4	202,574	3/4	187,583	3/4	172,571	3/4	157,523	3/4	142,475	3/4	127,427	3/4	112,379	3/4	82,269
11	11	11	11	11	187,271	11	172,258	11	157,210	11	142,162	11	127,113	11	112,065	11	97,011	11	81,955
1/4		1/4		1/4	201,952	1/4	186,958	1/4	171,944	1/4	156,896	1/4	141,848	1/4	126,800	1/4	111,752	1/4	81,642
1/2		1/2		1/2	201,642	1/2	186,646	1/2	171,631	1/2	156,583	1/2	141,535	1/2	126,486	1/2	111,438	1/2	81,328
3/4		3/4		3/4	201,331	3/4	186,334	3/4	171,317	3/4	156,269	3/4	141,221	3/4	126,173	3/4	111,125	3/4	81,014

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HFL 3011"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	80,701	0	65,651	0	51,142	0	36,680	0	21,645	0	6,590	0		0					0
1/4	80,387	1/4	65,343	1/4	50,841	1/4	36,373	1/4	21,331	1/4	6,276	1/4		1/4				1/4	1/4
1/2	80,073	1/2	65,035	1/2	50,539	1/2	36,065	1/2	21,018	1/2	5,963	1/2		1/2				1/2	1/2
3/4	79,760	3/4	64,727	3/4	50,238	3/4	35,757	3/4	20,704	3/4	5,649	3/4		3/4				3/4	3/4
1	79,446	1	64,426	1	49,936	1	35,443	1	20,390	1	5,336	1		1				1	1
1/4	79,132	1/4	64,124	1/4	49,635	1/4	35,130	1/4	20,077	1/4	5,022	1/4		1/4				1/4	1/4
1/2	78,819	1/2	63,822	1/2	49,334	1/2	34,816	1/2	19,763	1/2	4,709	1/2		1/2				1/2	1/2
3/4	78,505	3/4	63,520	3/4	49,033	3/4	34,502	3/4	19,450	3/4	4,395	3/4		3/4				3/4	3/4
2	78,191	2	63,218	2	48,732	2	34,189	2	19,136	2	4,083	2		2				2	2
1/4	77,878	1/4	62,916	1/4	48,431	1/4	33,875	1/4	18,822	1/4	3,770	1/4		1/4				1/4	1/4
1/2	77,564	1/2	62,614	1/2	48,130	1/2	33,562	1/2	18,509	1/2	3,457	1/2		1/2				1/2	1/2
3/4	77,250	3/4	62,312	3/4	47,828	3/4	33,248	3/4	18,195	3/4	3,145	3/4		3/4				3/4	3/4
3	76,937	3	62,010	3	47,528	3	32,934	3	17,881	3	2,851	3		3				3	3
1/4	76,623	1/4	61,708	1/4	47,227	1/4	32,621	1/4	17,568	1/4	2,558	1/4		1/4				1/4	1/4
1/2	76,309	1/2	61,407	1/2	46,926	1/2	32,307	1/2	17,254	1/2	2,265	1/2		1/2				1/2	1/2
3/4	75,996	3/4	61,105	3/4	46,625	3/4	31,993	3/4	16,940	3/4	1,972	3/4		3/4				3/4	3/4
4	75,682	4	60,803	4	46,324	4	31,680	4	16,627	4	1,737	4		4				4	4
1/4	75,368	1/4	60,501	1/4	46,023	1/4	31,366	1/4	16,313	1/4	1,501	1/4		1/4				1/4	1/4
1/2	75,055	1/2	60,199	1/2	45,722	1/2	31,052	1/2	15,999	1/2	1,266	1/2		1/2				1/2	1/2
3/4	74,741	3/4	59,897	3/4	45,421	3/4	30,739	3/4	15,686	3/4	1,031	3/4		3/4				3/4	3/4
5	74,427	5	59,595	5	45,120	5	30,425	5	15,372	5		5		5				5	5
1/4	74,114	1/4	59,293	1/4	44,819	1/4	30,112	1/4	15,058	1/4		1/4		1/4				1/4	1/4
1/2	73,800	1/2	58,991	1/2	44,518	1/2	29,798	1/2	14,745	1/2		1/2		1/2				1/2	1/2
3/4	73,486	3/4	58,689	3/4	44,217	3/4	29,484	3/4	14,431	3/4		3/4		3/4				3/4	3/4
6	73,173	6	58,388	6	43,916	6	29,171	6	14,117	6		6		6				6	6
1/4	72,859	1/4	58,086	1/4	43,615	1/4	28,857	1/4	13,804	1/4		1/4		1/4				1/4	1/4
1/2	72,545	1/2	57,784	1/2	43,314	1/2	28,544	1/2	13,490	1/2		1/2		1/2				1/2	1/2
3/4	72,232	3/4	57,482	3/4	43,013	3/4	28,231	3/4	13,177	3/4		3/4		3/4				3/4	3/4
7	71,918	7	57,180	7	42,712	7	27,917	7	12,863	7		7		7				7	7
1/4	71,604	1/4	56,878	1/4	42,411	1/4	27,604	1/4	12,549	1/4		1/4		1/4				1/4	1/4
1/2	71,291	1/2	56,576	1/2	42,110	1/2	27,290	1/2	12,236	1/2		1/2		1/2				1/2	1/2
3/4	70,977	3/4	56,274	3/4	41,809	3/4	26,977	3/4	11,922	3/4		3/4		3/4				3/4	3/4
8	70,663	8	55,972	8	41,508	8	26,663	8	11,608	8		8		8				8	8
1/4	70,350	1/4	55,670	1/4	41,207	1/4	26,350	1/4	11,295	1/4		1/4		1/4				1/4	1/4
1/2	70,036	1/2	55,368	1/2	40,906	1/2	26,036	1/2	10,981	1/2		1/2		1/2				1/2	1/2
3/4	69,723	3/4	55,067	3/4	40,605	3/4	25,723	3/4	10,667	3/4		3/4		3/4				3/4	3/4
9	69,409	9	54,765	9	40,304	9	25,409	9	10,354	9		9		9				9	9
1/4	69,095	1/4	54,463	1/4	40,003	1/4	25,095	1/4	10,040	1/4		1/4		1/4				1/4	1/4
1/2	68,782	1/2	54,161	1/2	39,702	1/2	24,782	1/2	9,726	1/2		1/2		1/2				1/2	1/2
3/4	68,468	3/4	53,859	3/4	39,401	3/4	24,468	3/4	9,413	3/4		3/4		3/4				3/4	3/4
10	68,154	10	53,557	10	39,100	10	24,154	10	9,099	10		10		10				10	10
1/4	67,841	1/4	53,255	1/4	38,799	1/4	23,841	1/4	8,785	1/4		1/4		1/4				1/4	1/4
1/2	67,527	1/2	52,953	1/2	38,497	1/2	23,527	1/2	8,472	1/2		1/2		1/2				1/2	1/2
3/4	67,213	3/4	52,651	3/4	38,196	3/4	23,213	3/4	8,158	3/4		3/4		3/4				3/4	3/4
11	66,900	11	52,349	11	37,894	11	22,900	11	7,844	11		11		11				11	11
1/4	66,586	1/4	52,048	1/4	37,592	1/4	22,586	1/4	7,531	1/4		1/4		1/4				1/4	1/4
1/2	66,272	1/2	51,746	1/2	37,290	1/2	22,272	1/2	7,217	1/2		1/2		1/2				1/2	1/2
3/4	65,959	3/4	51,444	3/4	36,988	3/4	21,959	3/4	6,903	3/4		3/4		3/4				3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



BARGE "HFL 3011"

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

Table with columns for gauge height (0 to 9 FT.) and rows for different barge sections. Each cell contains capacity values for 1/4, 1/2, and 3/4 heights.

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 THREADS ON "MMC" VALVE  
GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-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 "HFL 3011"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	79,945	0	64,897	0	49,856	0	34,808	0	19,761	0	5,527	0		0					0
1/4	79,631	1/4	64,583	1/4	49,543	1/4	34,495	1/4	19,447	1/4	5,252	1/4		1/4					1/4
1/2	79,318	1/2	64,270	1/2	49,229	1/2	34,181	1/2	19,134	1/2	4,981	1/2		1/2					1/2
3/4	79,004	3/4	63,956	3/4	48,916	3/4	33,868	3/4	18,820	3/4	4,710	3/4		3/4					3/4
1	78,691	1	63,643	1	48,602	1	33,554	1	18,507	1	4,439	1		1					1
1/4	78,377	1/4	63,329	1/4	48,289	1/4	33,241	1/4	18,193	1/4	4,168	1/4		1/4					1/4
1/2	78,064	1/2	63,016	1/2	47,975	1/2	32,927	1/2	17,881	1/2	3,901	1/2		1/2					1/2
3/4	77,750	3/4	62,702	3/4	47,662	3/4	32,614	3/4	17,568	3/4	3,634	3/4		3/4					3/4
2	77,437	2	62,389	2	47,348	2	32,300	2	17,256	2	3,367	2		2					2
1/4	77,123	1/4	62,075	1/4	47,035	1/4	31,987	1/4	16,943	1/4	3,101	1/4		1/4					1/4
1/2	76,810	1/2	61,762	1/2	46,721	1/2	31,673	1/2	16,633	1/2	2,838	1/2		1/2					1/2
3/4	76,496	3/4	61,449	3/4	46,408	3/4	31,360	3/4	16,324	3/4	2,576	3/4		3/4					3/4
3	76,183	3	61,135	3	46,094	3	31,046	3	16,014	3	2,313	3		3					3
1/4	75,869	1/4	60,822	1/4	45,781	1/4	30,733	1/4	15,704	1/4	2,051	1/4		1/4					1/4
1/2	75,556	1/2	60,509	1/2	45,467	1/2	30,419	1/2	15,399	1/2	1,812	1/2		1/2					1/2
3/4	75,242	3/4	60,196	3/4	45,154	3/4	30,106	3/4	15,093	3/4	1,573	3/4		3/4					3/4
4	74,929	4	59,882	4	44,840	4	29,792	4	14,787	4	1,334	4		4					4
1/4	74,615	1/4	59,569	1/4	44,527	1/4	29,479	1/4	14,481	1/4	1,095	1/4		1/4					1/4
1/2	74,302	1/2	59,256	1/2	44,213	1/2	29,165	1/2	14,179	1/2	918	1/2		1/2					1/2
3/4	73,988	3/4	58,942	3/4	43,900	3/4	28,852	3/4	13,878	3/4	740	3/4		3/4					3/4
5	73,675	5	58,629	5	43,586	5	28,538	5	13,576	5	563	5		5					5
1/4	73,361	1/4	58,316	1/4	43,273	1/4	28,225	1/4	13,274	1/4	386	1/4		1/4					1/4
1/2	73,048	1/2	58,003	1/2	42,959	1/2	27,911	1/2	12,976	1/2		1/2		1/2					1/2
3/4	72,734	3/4	57,689	3/4	42,646	3/4	27,598	3/4	12,678	3/4		3/4		3/4					3/4
6	72,421	6	57,376	6	42,332	6	27,284	6	12,380	6		6		6					6
1/4	72,107	1/4	57,063	1/4	42,019	1/4	26,971	1/4	12,082	1/4		1/4		1/4					1/4
1/2	71,794	1/2	56,750	1/2	41,705	1/2	26,657	1/2	11,787	1/2		1/2		1/2					1/2
3/4	71,480	3/4	56,436	3/4	41,392	3/4	26,344	3/4	11,493	3/4		3/4		3/4					3/4
7	71,167	7	56,123	7	41,078	7	26,030	7	11,199	7		7		7					7
1/4	70,853	1/4	55,810	1/4	40,765	1/4	25,717	1/4	10,905	1/4		1/4		1/4					1/4
1/2	70,540	1/2	55,496	1/2	40,451	1/2	25,403	1/2	10,614	1/2		1/2		1/2					1/2
3/4	70,226	3/4	55,183	3/4	40,138	3/4	25,090	3/4	10,324	3/4		3/4		3/4					3/4
8	69,913	8	54,870	8	39,824	8	24,777	8	10,034	8		8		8					8
1/4	69,599	1/4	54,557	1/4	39,511	1/4	24,463	1/4	9,743	1/4		1/4		1/4					1/4
1/2	69,286	1/2	54,243	1/2	39,197	1/2	24,150	1/2	9,457	1/2		1/2		1/2					1/2
3/4	68,972	3/4	53,930	3/4	38,884	3/4	23,836	3/4	9,170	3/4		3/4		3/4					3/4
9	68,659	9	53,617	9	38,570	9	23,523	9	8,884	9		9		9					9
1/4	68,345	1/4	53,304	1/4	38,257	1/4	23,209	1/4	8,597	1/4		1/4		1/4					1/4
1/2	68,032	1/2	52,990	1/2	37,943	1/2	22,896	1/2	8,315	1/2		1/2		1/2					1/2
3/4	67,718	3/4	52,677	3/4	37,630	3/4	22,582	3/4	8,032	3/4		3/4		3/4					3/4
10	67,405	10	52,364	10	37,316	10	22,269	10	7,750	10		10		10					10
1/4	67,091	1/4	52,050	1/4	37,003	1/4	21,955	1/4	7,467	1/4		1/4		1/4					1/4
1/2	66,778	1/2	51,737	1/2	36,689	1/2	21,642	1/2	7,188	1/2		1/2		1/2					1/2
3/4	66,464	3/4	51,423	3/4	36,376	3/4	21,328	3/4	6,909	3/4		3/4		3/4					3/4
11	66,151	11	51,110	11	36,062	11	21,015	11	6,631	11		11		11					11
1/4	65,837	1/4	50,796	1/4	35,749	1/4	20,701	1/4	6,352	1/4		1/4		1/4					1/4
1/2	65,524	1/2	50,483	1/2	35,435	1/2	20,388	1/2	6,077	1/2		1/2		1/2					1/2
3/4	65,210	3/4	50,169	3/4	35,122	3/4	20,074	3/4	5,802	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	200,075	0	185,081	0	170,071	0	155,033	0	139,995	0	124,957	0	109,918	0	94,874
1/4		1/4		1/4	199,763	1/4	184,769	1/4	169,758	1/4	154,720	1/4	139,682	1/4	124,643	1/4	109,605	1/4	94,561
1/2		1/2		1/2	199,451	1/2	184,457	1/2	169,445	1/2	154,407	1/2	139,368	1/2	124,330	1/2	109,292	1/2	94,248
3/4		3/4		3/4	199,139	3/4	184,144	3/4	169,132	3/4	154,093	3/4	139,055	3/4	124,017	3/4	108,978	3/4	93,934
1	1	1	1	1	198,826	1	183,832	1	168,818	1	153,780	1	138,742	1	123,703	1	108,665	1	93,621
1/4		1/4		1/4	198,514	1/4	183,519	1/4	168,505	1/4	153,467	1/4	138,428	1/4	123,390	1/4	108,352	1/4	93,307
1/2		1/2		1/2	198,201	1/2	183,207	1/2	168,192	1/2	153,153	1/2	138,115	1/2	123,077	1/2	108,038	1/2	92,994
3/4		3/4		3/4	197,889	3/4	182,895	3/4	167,878	3/4	152,840	3/4	137,802	3/4	122,763	3/4	107,725	3/4	92,680
2	2	2	2	2	197,577	2	182,582	2	167,565	2	152,527	2	137,488	2	122,450	2	107,412	2	92,367
1/4		1/4	211,207	1/4	197,264	1/4	182,270	1/4	167,252	1/4	152,213	1/4	137,175	1/4	122,137	1/4	107,098	1/4	92,054
1/2		1/2	211,027	1/2	196,952	1/2	181,958	1/2	166,938	1/2	151,900	1/2	136,862	1/2	121,824	1/2	106,785	1/2	91,740
3/4		3/4	210,847	3/4	196,640	3/4	181,645	3/4	166,625	3/4	151,587	3/4	136,549	3/4	121,510	3/4	106,471	3/4	91,427
3	3	3	3	3	196,327	3	181,333	3	166,312	3	151,274	3	136,235	3	121,197	3	106,158	3	91,113
1/4		1/4	210,488	1/4	196,015	1/4	181,020	1/4	165,999	1/4	150,960	1/4	135,922	1/4	120,884	1/4	105,845	1/4	90,800
1/2		1/2	210,256	1/2	195,702	1/2	180,708	1/2	165,685	1/2	150,647	1/2	135,609	1/2	120,570	1/2	105,531	1/2	90,486
3/4		3/4	210,024	3/4	195,390	3/4	180,396	3/4	165,372	3/4	150,334	3/4	135,295	3/4	120,257	3/4	105,218	3/4	90,173
4	4	4	4	4	195,078	4	180,083	4	165,059	4	150,020	4	134,982	4	119,944	4	104,904	4	89,859
1/4		1/4	209,560	1/4	194,765	1/4	179,771	1/4	164,745	1/4	149,707	1/4	134,669	1/4	119,630	1/4	104,591	1/4	89,546
1/2		1/2	209,279	1/2	194,453	1/2	179,458	1/2	164,432	1/2	149,394	1/2	134,355	1/2	119,317	1/2	104,277	1/2	89,233
3/4		3/4	208,999	3/4	194,140	3/4	179,146	3/4	164,119	3/4	149,080	3/4	134,042	3/4	119,004	3/4	103,964	3/4	88,919
5	5	5	5	5	193,828	5	178,834	5	163,805	5	148,767	5	133,729	5	118,691	5	103,651	5	88,606
1/4		1/4	208,438	1/4	193,516	1/4	178,521	1/4	163,492	1/4	148,454	1/4	133,416	1/4	118,377	1/4	103,337	1/4	88,292
1/2		1/2	208,131	1/2	193,203	1/2	178,209	1/2	163,179	1/2	148,141	1/2	133,102	1/2	118,064	1/2	103,024	1/2	87,979
3/4		3/4	207,825	3/4	192,891	3/4	177,897	3/4	162,866	3/4	147,827	3/4	132,789	3/4	117,751	3/4	102,710	3/4	87,665
6	6	6	6	6	192,579	6	177,584	6	162,552	6	147,514	6	132,476	6	117,437	6	102,397	6	87,352
1/4		1/4	207,213	1/4	192,266	1/4	177,272	1/4	162,239	1/4	147,201	1/4	132,162	1/4	117,124	1/4	102,083	1/4	87,039
1/2		1/2	206,903	1/2	191,954	1/2	176,959	1/2	161,926	1/2	146,887	1/2	131,849	1/2	116,811	1/2	101,770	1/2	86,725
3/4		3/4	206,593	3/4	191,641	3/4	176,647	3/4	161,612	3/4	146,574	3/4	131,536	3/4	116,498	3/4	101,457	3/4	86,412
7	7	7	7	7	191,329	7	176,335	7	161,299	7	146,261	7	131,222	7	116,184	7	101,143	7	86,098
1/4		1/4	205,973	1/4	191,017	1/4	176,022	1/4	160,986	1/4	145,947	1/4	130,909	1/4	115,871	1/4	100,830	1/4	85,785
1/2		1/2	205,663	1/2	190,704	1/2	175,709	1/2	160,672	1/2	145,634	1/2	130,596	1/2	115,558	1/2	100,516	1/2	85,471
3/4		3/4	205,353	3/4	190,392	3/4	175,397	3/4	160,359	3/4	145,321	3/4	130,283	3/4	115,244	3/4	100,203	3/4	85,158
8	8	8	8	8	190,079	8	175,084	8	160,046	8	145,008	8	129,969	8	114,931	8	99,889	8	84,845
1/4		1/4	204,732	1/4	189,767	1/4	174,771	1/4	159,733	1/4	144,694	1/4	129,656	1/4	114,618	1/4	99,576	1/4	84,531
1/2		1/2	204,422	1/2	189,455	1/2	174,458	1/2	159,419	1/2	144,381	1/2	129,343	1/2	114,304	1/2	99,262	1/2	84,218
3/4		3/4	204,112	3/4	189,142	3/4	174,144	3/4	159,106	3/4	144,068	3/4	129,029	3/4	113,991	3/4	98,949	3/4	83,904
9	9	9	9	9	188,830	9	173,831	9	158,793	9	143,754	9	128,716	9	113,678	9	98,636	9	83,591
1/4		1/4	203,491	1/4	188,518	1/4	173,518	1/4	158,479	1/4	143,441	1/4	128,403	1/4	113,365	1/4	98,322	1/4	83,277
1/2		1/2	203,181	1/2	188,205	1/2	173,204	1/2	158,166	1/2	143,128	1/2	128,090	1/2	113,051	1/2	98,009	1/2	82,964
3/4		3/4	202,870	3/4	187,893	3/4	172,891	3/4	157,853	3/4	142,815	3/4	127,776	3/4	112,738	3/4	97,695	3/4	82,651
10	10	10	10	10	187,580	10	172,578	10	157,539	10	142,501	10	127,463	10	112,425	10	97,382	10	82,337
1/4		1/4	202,250	1/4	187,268	1/4	172,264	1/4	157,226	1/4	142,188	1/4	127,150	1/4	112,111	1/4	97,068	1/4	82,024
1/2		1/2	201,939	1/2	186,956	1/2	171,951	1/2	156,913	1/2	141,875	1/2	126,836	1/2	111,798	1/2	96,755	1/2	81,710
3/4		3/4	201,629	3/4	186,643	3/4	171,638	3/4	156,600	3/4	141,561	3/4	126,523	3/4	111,485	3/4	96,442	3/4	81,397
11	11	11	11	11	186,331	11	171,325	11	156,286	11	141,248	11	126,210	11	111,171	11	96,128	11	81,083
1/4		1/4	201,009	1/4	186,019	1/4	171,011	1/4	155,973	1/4	140,935	1/4	125,896	1/4	110,858	1/4	95,815	1/4	80,770
1/2		1/2	200,697	1/2	185,706	1/2	170,698	1/2	155,660	1/2	140,621	1/2	125,583	1/2	110,545	1/2	95,501	1/2	80,456
3/4		3/4	200,386	3/4	185,394	3/4	170,385	3/4	155,346	3/4	140,308	3/4	125,270	3/4	110,232	3/4	95,188	3/4	80,143

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "HFL 3011"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	79,830	0	64,785	0	49,840	0	34,800	0	19,756	0	5,526	0		0					0
1/4	79,516	1/4	64,472	1/4	49,528	1/4	34,487	1/4	19,443	1/4	5,251	1/4		1/4				1/4	1/4
1/2	79,203	1/2	64,160	1/2	49,216	1/2	34,174	1/2	19,129	1/2	4,980	1/2		1/2				1/2	1/2
3/4	78,889	3/4	63,848	3/4	48,903	3/4	33,860	3/4	18,816	3/4	4,709	3/4		3/4				3/4	3/4
1	78,576	1	63,536	1	48,590	1	33,547	1	18,502	1	4,438	1		1				1	1
1/4	78,262	1/4	63,223	1/4	48,278	1/4	33,233	1/4	18,189	1/4	4,167	1/4		1/4				1/4	1/4
1/2	77,949	1/2	62,912	1/2	47,964	1/2	32,920	1/2	17,877	1/2	3,900	1/2		1/2				1/2	1/2
3/4	77,636	3/4	62,601	3/4	47,651	3/4	32,606	3/4	17,564	3/4	3,633	3/4		3/4				3/4	3/4
2	77,322	2	62,290	2	47,337	2	32,293	2	17,252	2	3,367	2		2				2	2
1/4	77,009	1/4	61,978	1/4	47,024	1/4	31,980	1/4	16,939	1/4	3,100	1/4		1/4				1/4	1/4
1/2	76,695	1/2	61,667	1/2	46,711	1/2	31,666	1/2	16,630	1/2	2,837	1/2		1/2				1/2	1/2
3/4	76,382	3/4	61,356	3/4	46,397	3/4	31,353	3/4	16,320	3/4	2,575	3/4		3/4				3/4	3/4
3	76,068	3	61,045	3	46,084	3	31,039	3	16,010	3	2,313	3		3				3	3
1/4	75,755	1/4	60,734	1/4	45,770	1/4	30,726	1/4	15,701	1/4	2,051	1/4		1/4				1/4	1/4
1/2	75,442	1/2	60,423	1/2	45,457	1/2	30,413	1/2	15,395	1/2	1,812	1/2		1/2				1/2	1/2
3/4	75,128	3/4	60,112	3/4	45,143	3/4	30,099	3/4	15,089	3/4	1,573	3/4		3/4				3/4	3/4
4	74,815	4	59,801	4	44,830	4	29,786	4	14,784	4	1,334	4		4				4	4
1/4	74,501	1/4	59,490	1/4	44,517	1/4	29,472	1/4	14,478	1/4	1,094	1/4		1/4				1/4	1/4
1/2	74,188	1/2	59,179	1/2	44,203	1/2	29,159	1/2	14,176	1/2	917	1/2		1/2				1/2	1/2
3/4	73,874	3/4	58,868	3/4	43,890	3/4	28,845	3/4	13,874	3/4	740	3/4		3/4				3/4	3/4
5	73,561	5	58,557	5	43,576	5	28,532	5	13,573	5	563	5		5				5	5
1/4	73,248	1/4	58,246	1/4	43,263	1/4	28,219	1/4	13,271	1/4	386	1/4		1/4				1/4	1/4
1/2	72,934	1/2	57,934	1/2	42,949	1/2	27,905	1/2	12,973	1/2		1/2		1/2				1/2	1/2
3/4	72,621	3/4	57,623	3/4	42,636	3/4	27,592	3/4	12,675	3/4		3/4		3/4				3/4	3/4
6	72,307	6	57,312	6	42,323	6	27,278	6	12,377	6		6		6				6	6
1/4	71,994	1/4	57,001	1/4	42,009	1/4	26,965	1/4	12,079	1/4		1/4		1/4				1/4	1/4
1/2	71,680	1/2	56,690	1/2	41,696	1/2	26,651	1/2	11,785	1/2		1/2		1/2				1/2	1/2
3/4	71,367	3/4	56,379	3/4	41,382	3/4	26,338	3/4	11,490	3/4		3/4		3/4				3/4	3/4
7	71,053	7	56,068	7	41,069	7	26,025	7	11,196	7		7		7				7	7
1/4	70,740	1/4	55,757	1/4	40,756	1/4	25,711	1/4	10,902	1/4		1/4		1/4				1/4	1/4
1/2	70,427	1/2	55,446	1/2	40,442	1/2	25,398	1/2	10,612	1/2		1/2		1/2				1/2	1/2
3/4	70,113	3/4	55,135	3/4	40,129	3/4	25,084	3/4	10,322	3/4		3/4		3/4				3/4	3/4
8	69,800	8	54,824	8	39,815	8	24,771	8	10,031	8		8		8				8	8
1/4	69,486	1/4	54,513	1/4	39,502	1/4	24,457	1/4	9,741	1/4		1/4		1/4				1/4	1/4
1/2	69,173	1/2	54,202	1/2	39,188	1/2	24,144	1/2	9,455	1/2		1/2		1/2				1/2	1/2
3/4	68,859	3/4	53,891	3/4	38,875	3/4	23,831	3/4	9,168	3/4		3/4		3/4				3/4	3/4
9	68,546	9	53,580	9	38,562	9	23,517	9	8,882	9		9		9				9	9
1/4	68,233	1/4	53,269	1/4	38,248	1/4	23,204	1/4	8,595	1/4		1/4		1/4				1/4	1/4
1/2	67,919	1/2	52,957	1/2	37,935	1/2	22,890	1/2	8,313	1/2		1/2		1/2				1/2	1/2
3/4	67,606	3/4	52,646	3/4	37,621	3/4	22,577	3/4	8,030	3/4		3/4		3/4				3/4	3/4
10	67,292	10	52,335	10	37,308	10	22,263	10	7,748	10		10		10				10	10
1/4	66,979	1/4	52,023	1/4	36,994	1/4	21,950	1/4	7,465	1/4		1/4		1/4				1/4	1/4
1/2	66,665	1/2	51,712	1/2	36,681	1/2	21,637	1/2	7,186	1/2		1/2		1/2				1/2	1/2
3/4	66,352	3/4	51,400	3/4	36,368	3/4	21,323	3/4	6,908	3/4		3/4		3/4				3/4	3/4
11	66,039	11	51,088	11	36,054	11	21,010	11	6,629	11		11		11				11	11
1/4	65,725	1/4	50,776	1/4	35,741	1/4	20,696	1/4	6,350	1/4		1/4		1/4				1/4	1/4
1/2	65,412	1/2	50,464	1/2	35,427	1/2	20,383	1/2	6,076	1/2		1/2		1/2				1/2	1/2
3/4	65,099	3/4	50,152	3/4	35,114	3/4	20,070	3/4	5,801	3/4		3/4		3/4				3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3011"

## STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,161	0	3,006	0	1,853	0	698	0		0		0		0	
1/4		1/4		1/4	4,137	1/4	2,982	1/4	1,829	1/4	674	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,113	1/2	2,958	1/2	1,805	1/2	650	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,089	3/4	2,934	3/4	1,780	3/4	626	3/4		3/4		3/4		3/4	
1		1		1	4,065	1	2,910	1	1,756	1	602	1		1		1		1	
1/4		1/4	5,140	1/4	4,041	1/4	2,886	1/4	1,732	1/4	578	1/4		1/4		1/4		1/4	
1/2		1/2	5,128	1/2	4,017	1/2	2,862	1/2	1,708	1/2	553	1/2		1/2		1/2		1/2	
3/4		3/4	5,117	3/4	3,993	3/4	2,838	3/4	1,684	3/4	529	3/4		3/4		3/4		3/4	
2		2	5,105	2	3,969	2	2,814	2	1,660	2	505	2		2		2		2	
1/4		1/4	5,093	1/4	3,945	1/4	2,790	1/4	1,636	1/4	481	1/4		1/4		1/4		1/4	
1/2		1/2	5,070	1/2	3,921	1/2	2,766	1/2	1,612	1/2	457	1/2		1/2		1/2		1/2	
3/4		3/4	5,046	3/4	3,897	3/4	2,742	3/4	1,588	3/4	433	3/4		3/4		3/4		3/4	
3		3	5,023	3	3,873	3	2,718	3	1,564	3	409	3		3		3		3	
1/4		1/4	4,999	1/4	3,849	1/4	2,694	1/4	1,540	1/4	385	1/4		1/4		1/4		1/4	
1/2		1/2	4,975	1/2	3,825	1/2	2,670	1/2	1,516	1/2	361	1/2		1/2		1/2		1/2	
3/4		3/4	4,952	3/4	3,800	3/4	2,646	3/4	1,492	3/4	337	3/4		3/4		3/4		3/4	
4		4	4,928	4	3,776	4	2,622	4	1,468	4	313	4		4		4		4	
1/4		1/4	4,904	1/4	3,752	1/4	2,597	1/4	1,444	1/4	289	1/4		1/4		1/4		1/4	
1/2		1/2	4,881	1/2	3,728	1/2	2,574	1/2	1,419	1/2	265	1/2		1/2		1/2		1/2	
3/4		3/4	4,857	3/4	3,704	3/4	2,550	3/4	1,395	3/4	241	3/4		3/4		3/4		3/4	
5		5	4,833	5	3,680	5	2,526	5	1,371	5	217	5		5		5		5	
1/4		1/4	4,810	1/4	3,656	1/4	2,502	1/4	1,347	1/4	193	1/4		1/4		1/4		1/4	
1/2		1/2	4,786	1/2	3,632	1/2	2,478	1/2	1,323	1/2	168	1/2		1/2		1/2		1/2	
3/4		3/4	4,762	3/4	3,608	3/4	2,454	3/4	1,299	3/4	144	3/4		3/4		3/4		3/4	
6		6	4,739	6	3,584	6	2,430	6	1,275	6	120	6		6		6		6	
1/4		1/4	4,715	1/4	3,560	1/4	2,406	1/4	1,251	1/4	96	1/4		1/4		1/4		1/4	
1/2		1/2	4,691	1/2	3,536	1/2	2,382	1/2	1,227	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,667	3/4	3,512	3/4	2,358	3/4	1,203	3/4		3/4		3/4		3/4		3/4	
7		7	4,643	7	3,488	7	2,334	7	1,179	7		7		7		7		7	
1/4		1/4	4,619	1/4	3,464	1/4	2,310	1/4	1,155	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,595	1/2	3,440	1/2	2,286	1/2	1,131	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,570	3/4	3,415	3/4	2,262	3/4	1,107	3/4		3/4		3/4		3/4		3/4	
8		8	4,546	8	3,391	8	2,238	8	1,083	8		8		8		8		8	
1/4		1/4	4,522	1/4	3,367	1/4	2,214	1/4	1,059	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,498	1/2	3,343	1/2	2,190	1/2	1,035	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,474	3/4	3,319	3/4	2,165	3/4	1,011	3/4		3/4		3/4		3/4		3/4	
9		9	4,450	9	3,295	9	2,141	9	987	9		9		9		9		9	
1/4		1/4	4,426	1/4	3,271	1/4	2,117	1/4	963	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,402	1/2	3,247	1/2	2,093	1/2	938	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,378	3/4	3,223	3/4	2,069	3/4	914	3/4		3/4		3/4		3/4		3/4	
10		10	4,354	10	3,199	10	2,045	10	890	10		10		10		10		10	
1/4		1/4	4,330	1/4	3,175	1/4	2,021	1/4	866	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,306	1/2	3,151	1/2	1,997	1/2	842	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,282	3/4	3,127	3/4	1,973	3/4	818	3/4		3/4		3/4		3/4		3/4	
11		11	4,258	11	3,103	11	1,949	11	794	11		11		11		11		11	
1/4		1/4	4,234	1/4	3,079	1/4	1,925	1/4	770	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,210	1/2	3,054	1/2	1,901	1/2	746	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,185	3/4	3,030	3/4	1,877	3/4	722	3/4		3/4		3/4		3/4		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 AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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





# BARGE "HFL 3011"

## PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,161	0	3,006	0	1,853	0	698	0		0		0		0	
1/4		1/4		1/4	4,137	1/4	2,982	1/4	1,829	1/4	674	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,113	1/2	2,958	1/2	1,805	1/2	650	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,089	3/4	2,934	3/4	1,780	3/4	626	3/4		3/4		3/4		3/4	
1		1		1	4,065	1	2,910	1	1,756	1	602	1		1		1		1	
1/4		1/4	5,140	1/4	4,041	1/4	2,886	1/4	1,732	1/4	578	1/4		1/4		1/4		1/4	
1/2		1/2	5,128	1/2	4,017	1/2	2,862	1/2	1,708	1/2	553	1/2		1/2		1/2		1/2	
3/4		3/4	5,117	3/4	3,993	3/4	2,838	3/4	1,684	3/4	529	3/4		3/4		3/4		3/4	
2		2	5,105	2	3,969	2	2,814	2	1,660	2	505	2		2		2		2	
1/4		1/4	5,093	1/4	3,945	1/4	2,790	1/4	1,636	1/4	481	1/4		1/4		1/4		1/4	
1/2		1/2	5,070	1/2	3,921	1/2	2,766	1/2	1,612	1/2	457	1/2		1/2		1/2		1/2	
3/4		3/4	5,046	3/4	3,897	3/4	2,742	3/4	1,588	3/4	433	3/4		3/4		3/4		3/4	
3		3	5,023	3	3,873	3	2,718	3	1,564	3	409	3		3		3		3	
1/4		1/4	4,999	1/4	3,849	1/4	2,694	1/4	1,540	1/4	385	1/4		1/4		1/4		1/4	
1/2		1/2	4,975	1/2	3,825	1/2	2,670	1/2	1,516	1/2	361	1/2		1/2		1/2		1/2	
3/4		3/4	4,952	3/4	3,800	3/4	2,646	3/4	1,492	3/4	337	3/4		3/4		3/4		3/4	
4		4	4,928	4	3,776	4	2,622	4	1,468	4	313	4		4		4		4	
1/4		1/4	4,904	1/4	3,752	1/4	2,597	1/4	1,444	1/4	289	1/4		1/4		1/4		1/4	
1/2		1/2	4,881	1/2	3,728	1/2	2,574	1/2	1,419	1/2	265	1/2		1/2		1/2		1/2	
3/4		3/4	4,857	3/4	3,704	3/4	2,550	3/4	1,395	3/4	241	3/4		3/4		3/4		3/4	
5		5	4,833	5	3,680	5	2,526	5	1,371	5	217	5		5		5		5	
1/4		1/4	4,810	1/4	3,656	1/4	2,502	1/4	1,347	1/4	193	1/4		1/4		1/4		1/4	
1/2		1/2	4,786	1/2	3,632	1/2	2,478	1/2	1,323	1/2	168	1/2		1/2		1/2		1/2	
3/4		3/4	4,762	3/4	3,608	3/4	2,454	3/4	1,299	3/4	144	3/4		3/4		3/4		3/4	
6		6	4,739	6	3,584	6	2,430	6	1,275	6	120	6		6		6		6	
1/4		1/4	4,715	1/4	3,560	1/4	2,406	1/4	1,251	1/4	96	1/4		1/4		1/4		1/4	
1/2		1/2	4,691	1/2	3,536	1/2	2,382	1/2	1,227	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,667	3/4	3,512	3/4	2,358	3/4	1,203	3/4		3/4		3/4		3/4		3/4	
7		7	4,643	7	3,488	7	2,334	7	1,179	7		7		7		7		7	
1/4		1/4	4,619	1/4	3,464	1/4	2,310	1/4	1,155	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,595	1/2	3,440	1/2	2,286	1/2	1,131	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,570	3/4	3,415	3/4	2,262	3/4	1,107	3/4		3/4		3/4		3/4		3/4	
8		8	4,546	8	3,391	8	2,238	8	1,083	8		8		8		8		8	
1/4		1/4	4,522	1/4	3,367	1/4	2,214	1/4	1,059	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,498	1/2	3,343	1/2	2,190	1/2	1,035	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,474	3/4	3,319	3/4	2,165	3/4	1,011	3/4		3/4		3/4		3/4		3/4	
9		9	4,450	9	3,295	9	2,141	9	987	9		9		9		9		9	
1/4		1/4	4,426	1/4	3,271	1/4	2,117	1/4	963	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,402	1/2	3,247	1/2	2,093	1/2	938	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,378	3/4	3,223	3/4	2,069	3/4	914	3/4		3/4		3/4		3/4		3/4	
10		10	4,354	10	3,199	10	2,045	10	890	10		10		10		10		10	
1/4		1/4	4,330	1/4	3,175	1/4	2,021	1/4	866	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,306	1/2	3,151	1/2	1,997	1/2	842	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,282	3/4	3,127	3/4	1,973	3/4	818	3/4		3/4		3/4		3/4		3/4	
11		11	4,258	11	3,103	11	1,949	11	794	11		11		11		11		11	
1/4		1/4	4,234	1/4	3,079	1/4	1,925	1/4	770	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,210	1/2	3,054	1/2	1,901	1/2	746	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,185	3/4	3,030	3/4	1,877	3/4	722	3/4		3/4		3/4		3/4		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 AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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