



BARGE "HFL 411"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

February 10, 2012

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 411"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	147,946	0	162,959	0	177,963	0	192,932	0	207,829	0		0		0		0		0	
1/4	148,258	1/4	163,271	1/4	178,275	1/4	193,244	1/4	208,109	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,571	1/2	163,584	1/2	178,586	1/2	193,556	1/2	208,389	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	148,884	3/4	163,897	3/4	178,898	3/4	193,867	3/4	208,669	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,197	1	164,210	1	179,210	1	194,179	1	208,949	1	1	1	1	1	1	1	1	1	1
1/4	149,510	1/4	164,523	1/4	179,522	1/4	194,491	1/4	209,180	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,822	1/2	164,835	1/2	179,834	1/2	194,803	1/2	209,412	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,135	3/4	165,148	3/4	180,146	3/4	195,115	3/4	209,644	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,448	2	165,461	2	180,458	2	195,427	2	209,875	2	2	2	2	2	2	2	2	2	2
1/4	150,761	1/4	165,774	1/4	180,769	1/4	195,739	1/4	210,055	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,073	1/2	166,086	1/2	181,081	1/2	196,050	1/2	210,234	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,386	3/4	166,399	3/4	181,393	3/4	196,362	3/4	210,414	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	151,699	3	166,712	3	181,705	3	196,674	3	210,593	3	3	3	3	3	3	3	3	3	3
1/4	152,012	1/4	167,025	1/4	182,017	1/4	196,986	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,324	1/2	167,338	1/2	182,329	1/2	197,298	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,637	3/4	167,650	3/4	182,641	3/4	197,610	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	152,950	4	167,963	4	182,952	4	197,922	4		4	4	4	4	4	4	4	4	4	4
1/4	153,263	1/4	168,276	1/4	183,264	1/4	198,234	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,576	1/2	168,589	1/2	183,576	1/2	198,545	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,888	3/4	168,901	3/4	183,888	3/4	198,857	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	154,201	5	169,214	5	184,200	5	199,169	5		5	5	5	5	5	5	5	5	5	5
1/4	154,514	1/4	169,527	1/4	184,512	1/4	199,480	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,827	1/2	169,840	1/2	184,824	1/2	199,791	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,139	3/4	170,152	3/4	185,135	3/4	200,101	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	155,452	6	170,465	6	185,447	6	200,412	6		6	6	6	6	6	6	6	6	6	6
1/4	155,765	1/4	170,778	1/4	185,759	1/4	200,722	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,078	1/2	171,091	1/2	186,071	1/2	201,032	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,391	3/4	171,404	3/4	186,383	3/4	201,341	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	156,703	7	171,716	7	186,695	7	201,651	7		7	7	7	7	7	7	7	7	7	7
1/4	157,016	1/4	172,029	1/4	187,007	1/4	201,961	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,329	1/2	172,342	1/2	187,318	1/2	202,271	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,642	3/4	172,655	3/4	187,630	3/4	202,580	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	157,954	8	172,967	8	187,942	8	202,890	8		8	8	8	8	8	8	8	8	8	8
1/4	158,267	1/4	173,280	1/4	188,254	1/4	203,200	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,580	1/2	173,593	1/2	188,566	1/2	203,510	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,893	3/4	173,906	3/4	188,878	3/4	203,820	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	159,205	9	174,219	9	189,190	9	204,130	9		9	9	9	9	9	9	9	9	9	9
1/4	159,518	1/4	174,531	1/4	189,501	1/4	204,439	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,831	1/2	174,843	1/2	189,813	1/2	204,749	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,144	3/4	175,155	3/4	190,125	3/4	205,059	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	160,457	10	175,468	10	190,437	10	205,369	10		10	10	10	10	10	10	10	10	10	10
1/4	160,769	1/4	175,780	1/4	190,749	1/4	205,678	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,082	1/2	176,091	1/2	191,061	1/2	205,987	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161,395	3/4	176,403	3/4	191,373	3/4	206,297	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	161,708	11	176,715	11	191,684	11	206,606	11		11	11	11	11	11	11	11	11	11	11
1/4	162,020	1/4	177,027	1/4	191,996	1/4	206,912	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	162,333	1/2	177,339	1/2	192,308	1/2	207,217	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162,646	3/4	177,651	3/4	192,620	3/4	207,523	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 02/09/2012 CL - SW
 CALCULATED: 02/10/2012 CL
 PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 02/2012

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BARGE "HFL 411"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,055	0	163,068	0	178,072	0	193,042	0	207,915	0		0		0		0		0	
1/4	148,367	1/4	163,381	1/4	178,384	1/4	193,354	1/4	208,194	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,680	1/2	163,694	1/2	178,696	1/2	193,666	1/2	208,473	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	148,993	3/4	164,006	3/4	179,008	3/4	193,978	3/4	208,752	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,306	1	164,319	1	179,320	1	194,290	1	209,031	1	1	1	1	1	1	1	1	1	1
1/4	149,619	1/4	164,632	1/4	179,632	1/4	194,601	1/4	209,261	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,931	1/2	164,945	1/2	179,944	1/2	194,913	1/2	209,492	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,244	3/4	165,258	3/4	180,256	3/4	195,225	3/4	209,723	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,557	2	165,570	2	180,567	2	195,537	2	209,954	2	2	2	2	2	2	2	2	2	2
1/4	150,870	1/4	165,883	1/4	180,879	1/4	195,849	1/4	210,132	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,182	1/2	166,196	1/2	181,191	1/2	196,161	1/2	210,311	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,495	3/4	166,509	3/4	181,503	3/4	196,473	3/4	210,489	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	151,808	3	166,821	3	181,815	3	196,785	3	210,668	3	3	3	3	3	3	3	3	3	3
1/4	152,121	1/4	167,134	1/4	182,127	1/4	197,096	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,434	1/2	167,447	1/2	182,439	1/2	197,408	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,746	3/4	167,760	3/4	182,750	3/4	197,720	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	153,059	4	168,073	4	183,062	4	198,032	4		4	4	4	4	4	4	4	4	4	4
1/4	153,372	1/4	168,385	1/4	183,374	1/4	198,344	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,685	1/2	168,698	1/2	183,686	1/2	198,656	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,997	3/4	169,011	3/4	183,998	3/4	198,968	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	154,310	5	169,324	5	184,310	5	199,279	5		5	5	5	5	5	5	5	5	5	5
1/4	154,623	1/4	169,637	1/4	184,622	1/4	199,590	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,936	1/2	169,949	1/2	184,934	1/2	199,900	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,249	3/4	170,262	3/4	185,245	3/4	200,210	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	155,561	6	170,575	6	185,557	6	200,521	6		6	6	6	6	6	6	6	6	6	6
1/4	155,874	1/4	170,888	1/4	185,869	1/4	200,830	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,187	1/2	171,200	1/2	186,181	1/2	201,138	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,500	3/4	171,513	3/4	186,493	3/4	201,447	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	156,813	7	171,826	7	186,805	7	201,756	7		7	7	7	7	7	7	7	7	7	7
1/4	157,125	1/4	172,139	1/4	187,117	1/4	202,065	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,438	1/2	172,452	1/2	187,428	1/2	202,374	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,751	3/4	172,764	3/4	187,740	3/4	202,682	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	158,064	8	173,077	8	188,052	8	202,991	8		8	8	8	8	8	8	8	8	8	8
1/4	158,376	1/4	173,390	1/4	188,364	1/4	203,300	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,689	1/2	173,703	1/2	188,676	1/2	203,609	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,002	3/4	174,015	3/4	188,988	3/4	203,918	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	159,315	9	174,328	9	189,300	9	204,227	9		9	9	9	9	9	9	9	9	9	9
1/4	159,628	1/4	174,641	1/4	189,612	1/4	204,536	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,940	1/2	174,953	1/2	189,923	1/2	204,844	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,253	3/4	175,265	3/4	190,235	3/4	205,153	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	160,566	10	175,578	10	190,547	10	205,462	10		10	10	10	10	10	10	10	10	10	10
1/4	160,879	1/4	175,889	1/4	190,859	1/4	205,770	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,191	1/2	176,201	1/2	191,171	1/2	206,079	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161,504	3/4	176,513	3/4	191,483	3/4	206,387	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	161,817	11	176,825	11	191,795	11	206,696	11		11	11	11	11	11	11	11	11	11	11
1/4	162,130	1/4	177,137	1/4	192,107	1/4	207,000	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	162,443	1/2	177,449	1/2	192,418	1/2	207,305	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162,755	3/4	177,761	3/4	192,730	3/4	207,610	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

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



BARGE "HFL 411"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	149,823	0	164,886	0	179,939	0	194,950	0	209,865	0		0		0		0		0	
1/4	150,137	1/4	165,200	1/4	180,251	1/4	195,263	1/4	210,145	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,451	1/2	165,514	1/2	180,564	1/2	195,576	1/2	210,425	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,765	3/4	165,828	3/4	180,877	3/4	195,889	3/4	210,705	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	151,078	1	166,141	1	181,190	1	196,201	1	210,985	1	1	1	1	1	1	1	1	1	1
1/4	151,392	1/4	166,455	1/4	181,502	1/4	196,514	1/4	211,216	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,706	1/2	166,769	1/2	181,815	1/2	196,827	1/2	211,448	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,020	3/4	167,083	3/4	182,128	3/4	197,140	3/4	211,679	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	152,334	2	167,397	2	182,441	2	197,452	2	211,910	2	2	2	2	2	2	2	2	2	2
1/4	152,647	1/4	167,711	1/4	182,753	1/4	197,765	1/4	212,089	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,961	1/2	168,024	1/2	183,066	1/2	198,078	1/2	212,268	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,275	3/4	168,338	3/4	183,379	3/4	198,391	3/4	212,447	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	153,589	3	168,652	3	183,692	3	198,703	3	212,626	3	3	3	3	3	3	3	3	3	3
1/4	153,903	1/4	168,966	1/4	184,004	1/4	199,016	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,217	1/2	169,280	1/2	184,317	1/2	199,329	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,530	3/4	169,593	3/4	184,630	3/4	199,642	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	154,844	4	169,907	4	184,943	4	199,954	4		4	4	4	4	4	4	4	4	4	4
1/4	155,158	1/4	170,221	1/4	185,255	1/4	200,267	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,472	1/2	170,535	1/2	185,568	1/2	200,580	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,786	3/4	170,849	3/4	185,881	3/4	200,893	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	156,099	5	171,162	5	186,194	5	201,205	5		5	5	5	5	5	5	5	5	5	5
1/4	156,413	1/4	171,476	1/4	186,506	1/4	201,517	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,727	1/2	171,790	1/2	186,819	1/2	201,828	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,041	3/4	172,104	3/4	187,132	3/4	202,139	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	157,355	6	172,418	6	187,445	6	202,450	6		6	6	6	6	6	6	6	6	6	6
1/4	157,668	1/4	172,732	1/4	187,757	1/4	202,760	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,982	1/2	173,045	1/2	188,070	1/2	203,070	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,296	3/4	173,359	3/4	188,383	3/4	203,379	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	158,610	7	173,673	7	188,696	7	203,689	7		7	7	7	7	7	7	7	7	7	7
1/4	158,924	1/4	173,987	1/4	189,008	1/4	203,999	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,238	1/2	174,301	1/2	189,321	1/2	204,308	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,551	3/4	174,614	3/4	189,634	3/4	204,618	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	159,865	8	174,928	8	189,947	8	204,928	8		8	8	8	8	8	8	8	8	8	8
1/4	160,179	1/4	175,242	1/4	190,259	1/4	205,238	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	160,493	1/2	175,556	1/2	190,572	1/2	205,547	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,807	3/4	175,870	3/4	190,885	3/4	205,857	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	161,120	9	176,183	9	191,197	9	206,167	9		9	9	9	9	9	9	9	9	9	9
1/4	161,434	1/4	176,497	1/4	191,510	1/4	206,477	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,748	1/2	176,810	1/2	191,823	1/2	206,786	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162,062	3/4	177,123	3/4	192,136	3/4	207,096	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	162,376	10	177,437	10	192,448	10	207,406	10		10	10	10	10	10	10	10	10	10	10
1/4	162,690	1/4	177,749	1/4	192,761	1/4	207,715	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	163,003	1/2	178,062	1/2	193,074	1/2	208,024	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	163,317	3/4	178,375	3/4	193,387	3/4	208,334	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	163,631	11	178,688	11	193,699	11	208,643	11		11	11	11	11	11	11	11	11	11	11
1/4	163,945	1/4	179,000	1/4	194,012	1/4	208,949	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	164,259	1/2	179,313	1/2	194,325	1/2	209,254	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	164,572	3/4	179,626	3/4	194,638	3/4	209,560	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 411"

**2 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	151,034	0	166,098	0	181,151	0	196,163	0	211,079	0		0		0		0		0	
1/4	151,348	1/4	166,412	1/4	181,464	1/4	196,476	1/4	211,359	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,662	1/2	166,726	1/2	181,776	1/2	196,789	1/2	211,638	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,976	3/4	167,039	3/4	182,089	3/4	197,101	3/4	211,918	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	152,290	1	167,353	1	182,402	1	197,414	1	212,198	1	1	1	1	1	1	1	1	1	1
1/4	152,604	1/4	167,667	1/4	182,715	1/4	197,727	1/4	212,430	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,917	1/2	167,981	1/2	183,027	1/2	198,040	1/2	212,661	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,231	3/4	168,295	3/4	183,340	3/4	198,353	3/4	212,892	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	153,545	2	168,609	2	183,653	2	198,665	2	213,123	2	2	2	2	2	2	2	2	2	2
1/4	153,859	1/4	168,922	1/4	183,966	1/4	198,978	1/4	213,302	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,173	1/2	169,236	1/2	184,278	1/2	199,291	1/2	213,481	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,487	3/4	169,550	3/4	184,591	3/4	199,604	3/4	213,660	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	154,800	3	169,864	3	184,904	3	199,916	3	213,839	3	3	3	3	3	3	3	3	3	3
1/4	155,114	1/4	170,178	1/4	185,217	1/4	200,229	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,428	1/2	170,491	1/2	185,529	1/2	200,542	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,742	3/4	170,805	3/4	185,842	3/4	200,855	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	156,056	4	171,119	4	186,155	4	201,167	4	4	4	4	4	4	4	4	4	4	4	4
1/4	156,369	1/4	171,433	1/4	186,468	1/4	201,480	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,683	1/2	171,747	1/2	186,780	1/2	201,793	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,997	3/4	172,061	3/4	187,093	3/4	202,106	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	157,311	5	172,374	5	187,406	5	202,418	5	5	5	5	5	5	5	5	5	5	5	5
1/4	157,625	1/4	172,688	1/4	187,719	1/4	202,730	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,939	1/2	173,002	1/2	188,031	1/2	203,041	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,252	3/4	173,316	3/4	188,344	3/4	203,352	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	158,566	6	173,630	6	188,657	6	203,663	6	6	6	6	6	6	6	6	6	6	6	6
1/4	158,880	1/4	173,944	1/4	188,970	1/4	203,973	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,194	1/2	174,257	1/2	189,283	1/2	204,283	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,508	3/4	174,571	3/4	189,595	3/4	204,592	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	159,822	7	174,885	7	189,908	7	204,902	7	7	7	7	7	7	7	7	7	7	7	7
1/4	160,135	1/4	175,199	1/4	190,221	1/4	205,212	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	160,449	1/2	175,513	1/2	190,534	1/2	205,521	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,763	3/4	175,826	3/4	190,846	3/4	205,831	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	161,077	8	176,140	8	191,159	8	206,141	8	8	8	8	8	8	8	8	8	8	8	8
1/4	161,391	1/4	176,454	1/4	191,472	1/4	206,451	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,704	1/2	176,768	1/2	191,785	1/2	206,760	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162,018	3/4	177,082	3/4	192,097	3/4	207,070	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	162,332	9	177,396	9	192,410	9	207,380	9	9	9	9	9	9	9	9	9	9	9	9
1/4	162,646	1/4	177,709	1/4	192,723	1/4	207,690	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	162,960	1/2	178,022	1/2	193,036	1/2	208,000	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	163,274	3/4	178,335	3/4	193,348	3/4	208,309	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	163,587	10	178,649	10	193,661	10	208,619	10	10	10	10	10	10	10	10	10	10	10	10
1/4	163,901	1/4	178,962	1/4	193,974	1/4	208,928	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	164,215	1/2	179,274	1/2	194,287	1/2	209,238	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	164,529	3/4	179,587	3/4	194,599	3/4	209,547	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	164,843	11	179,900	11	194,912	11	209,856	11	11	11	11	11	11	11	11	11	11	11	11
1/4	165,157	1/4	180,213	1/4	195,225	1/4	210,162	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	165,470	1/2	180,525	1/2	195,538	1/2	210,467	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	165,784	3/4	180,838	3/4	195,850	3/4	210,773	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 411"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	148,396	0	158,781	0	169,144	0	179,479	0	189,799	0		0		0		0		0	
1/4	148,615	1/4	158,997	1/4	169,359	1/4	179,694	1/4	189,992	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,835	1/2	159,213	1/2	169,575	1/2	179,909	1/2	190,185	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,054	3/4	159,429	3/4	169,790	3/4	180,125	3/4	190,378	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,274	1	159,645	1	170,005	1	180,340	1	190,571	1	1	1	1	1	1	1	1	1	1
1/4	149,490	1/4	159,861	1/4	170,221	1/4	180,555	1/4	190,731	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,706	1/2	160,077	1/2	170,436	1/2	180,770	1/2	190,890	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,922	3/4	160,293	3/4	170,651	3/4	180,986	3/4	191,050	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,138	2	160,509	2	170,867	2	181,201	2	191,210	2	2	2	2	2	2	2	2	2	2
1/4	150,354	1/4	160,725	1/4	171,082	1/4	181,416	1/4	191,333	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,570	1/2	160,941	1/2	171,297	1/2	181,632	1/2	191,457	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,786	3/4	161,157	3/4	171,512	3/4	181,847	3/4	191,581	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	151,002	3	161,373	3	171,728	3	182,062	3	191,704	3	3	3	3	3	3	3	3	3	3
1/4	151,219	1/4	161,590	1/4	171,943	1/4	182,278	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,435	1/2	161,806	1/2	172,158	1/2	182,493	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,651	3/4	162,022	3/4	172,374	3/4	182,708	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	151,867	4	162,238	4	172,589	4	182,923	4		4	4	4	4	4	4	4	4	4	4
1/4	152,083	1/4	162,454	1/4	172,804	1/4	183,139	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,299	1/2	162,670	1/2	173,020	1/2	183,354	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,515	3/4	162,886	3/4	173,235	3/4	183,569	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	152,731	5	163,102	5	173,450	5	183,785	5		5	5	5	5	5	5	5	5	5	5
1/4	152,947	1/4	163,318	1/4	173,665	1/4	184,000	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,163	1/2	163,534	1/2	173,881	1/2	184,215	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,379	3/4	163,750	3/4	174,096	3/4	184,431	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	153,595	6	163,966	6	174,311	6	184,646	6		6	6	6	6	6	6	6	6	6	6
1/4	153,811	1/4	164,182	1/4	174,527	1/4	184,861	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,027	1/2	164,398	1/2	174,742	1/2	185,076	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,243	3/4	164,614	3/4	174,957	3/4	185,292	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	154,459	7	164,830	7	175,173	7	185,507	7		7	7	7	7	7	7	7	7	7	7
1/4	154,676	1/4	165,047	1/4	175,388	1/4	185,722	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,892	1/2	165,263	1/2	175,603	1/2	185,938	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,108	3/4	165,479	3/4	175,818	3/4	186,153	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	155,324	8	165,695	8	176,034	8	186,368	8		8	8	8	8	8	8	8	8	8	8
1/4	155,540	1/4	165,911	1/4	176,249	1/4	186,584	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,756	1/2	166,127	1/2	176,464	1/2	186,799	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,972	3/4	166,343	3/4	176,680	3/4	187,015	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	156,188	9	166,559	9	176,895	9	187,230	9		9	9	9	9	9	9	9	9	9	9
1/4	156,404	1/4	166,775	1/4	177,110	1/4	187,445	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,620	1/2	166,990	1/2	177,326	1/2	187,661	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,836	3/4	167,206	3/4	177,541	3/4	187,876	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	157,052	10	167,422	10	177,756	10	188,092	10		10	10	10	10	10	10	10	10	10	10
1/4	157,268	1/4	167,637	1/4	177,971	1/4	188,307	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,484	1/2	167,852	1/2	178,187	1/2	188,522	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,700	3/4	168,068	3/4	178,402	3/4	188,737	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	157,916	11	168,283	11	178,617	11	188,952	11		11	11	11	11	11	11	11	11	11	11
1/4	158,133	1/4	168,498	1/4	178,833	1/4	189,163	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,349	1/2	168,714	1/2	179,048	1/2	189,375	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,565	3/4	168,929	3/4	179,263	3/4	189,587	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 411"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	1,029	0	15,404	0	30,428	0	45,436	0	60,459	0	75,484	0	90,495	0	105,519	0	120,526	0	135,530
1/4	1,264	1/4	15,717	1/4	30,741	1/4	45,749	1/4	60,772	1/4	75,797	1/4	90,808	1/4	105,832	1/4	120,839	1/4	135,843
1/2	1,498	1/2	16,030	1/2	31,054	1/2	46,062	1/2	61,085	1/2	76,110	1/2	91,121	1/2	106,145	1/2	121,152	1/2	136,155
3/4	1,733	3/4	16,343	3/4	31,367	3/4	46,375	3/4	61,398	3/4	76,423	3/4	91,434	3/4	106,458	3/4	121,464	3/4	136,468
1	1,968	1	16,656	1	31,680	1	46,687	1	61,711	1	76,736	1	91,747	1	106,771	1	121,777	1	136,780
1/4	2,258	1/4	16,969	1/4	31,993	1/4	47,000	1/4	62,024	1/4	77,049	1/4	92,060	1/4	107,084	1/4	122,089	1/4	137,093
1/2	2,548	1/2	17,282	1/2	32,306	1/2	47,313	1/2	62,337	1/2	77,362	1/2	92,373	1/2	107,397	1/2	122,402	1/2	137,406
3/4	2,838	3/4	17,595	3/4	32,619	3/4	47,626	3/4	62,650	3/4	77,675	3/4	92,686	3/4	107,710	3/4	122,714	3/4	137,718
2	3,129	2	17,908	2	32,932	2	47,939	2	62,963	2	77,988	2	92,999	2	108,023	2	123,027	2	138,031
1/4	3,433	1/4	18,221	1/4	33,245	1/4	48,252	1/4	63,277	1/4	78,301	1/4	93,312	1/4	108,335	1/4	123,340	1/4	138,343
1/2	3,738	1/2	18,534	1/2	33,558	1/2	48,565	1/2	63,590	1/2	78,614	1/2	93,625	1/2	108,648	1/2	123,652	1/2	138,656
3/4	4,042	3/4	18,847	3/4	33,871	3/4	48,878	3/4	63,903	3/4	78,927	3/4	93,938	3/4	108,961	3/4	123,965	3/4	138,968
3	4,347	3	19,160	3	34,184	3	49,191	3	64,216	3	79,240	3	94,251	3	109,273	3	124,277	3	139,281
1/4	4,650	1/4	19,473	1/4	34,497	1/4	49,504	1/4	64,529	1/4	79,553	1/4	94,564	1/4	109,586	1/4	124,590	1/4	139,594
1/2	4,953	1/2	19,786	1/2	34,810	1/2	49,817	1/2	64,842	1/2	79,866	1/2	94,877	1/2	109,899	1/2	124,902	1/2	139,906
3/4	5,255	3/4	20,099	3/4	35,123	3/4	50,130	3/4	65,155	3/4	80,179	3/4	95,190	3/4	110,211	3/4	125,215	3/4	140,219
4	5,558	4	20,412	4	35,435	4	50,443	4	65,468	4	80,492	4	95,503	4	110,524	4	125,528	4	140,531
1/4	5,861	1/4	20,725	1/4	35,748	1/4	50,756	1/4	65,781	1/4	80,805	1/4	95,816	1/4	110,836	1/4	125,840	1/4	140,844
1/2	6,164	1/2	21,038	1/2	36,060	1/2	51,069	1/2	66,094	1/2	81,118	1/2	96,129	1/2	111,149	1/2	126,153	1/2	141,156
3/4	6,466	3/4	21,351	3/4	36,373	3/4	51,382	3/4	66,407	3/4	81,431	3/4	96,442	3/4	111,462	3/4	126,465	3/4	141,469
5	6,769	5	21,664	5	36,685	5	51,695	5	66,720	5	81,744	5	96,755	5	111,774	5	126,778	5	141,781
1/4	7,072	1/4	21,977	1/4	36,998	1/4	52,008	1/4	67,033	1/4	82,057	1/4	97,068	1/4	112,087	1/4	127,090	1/4	142,094
1/2	7,374	1/2	22,290	1/2	37,310	1/2	52,321	1/2	67,346	1/2	82,369	1/2	97,381	1/2	112,399	1/2	127,403	1/2	142,406
3/4	7,677	3/4	22,603	3/4	37,623	3/4	52,634	3/4	67,659	3/4	82,682	3/4	97,694	3/4	112,712	3/4	127,716	3/4	142,718
6	7,980	6	22,916	6	37,936	6	52,947	6	67,972	6	82,995	6	98,007	6	113,024	6	128,028	6	143,031
1/4	8,283	1/4	23,229	1/4	38,248	1/4	53,260	1/4	68,285	1/4	83,307	1/4	98,320	1/4	113,337	1/4	128,341	1/4	143,338
1/2	8,585	1/2	23,542	1/2	38,561	1/2	53,573	1/2	68,598	1/2	83,619	1/2	98,633	1/2	113,650	1/2	128,653	1/2	143,646
3/4	8,888	3/4	23,855	3/4	38,873	3/4	53,886	3/4	68,911	3/4	83,931	3/4	98,946	3/4	113,962	3/4	128,966	3/4	143,954
7	9,191	7	24,168	7	39,186	7	54,199	7	69,224	7	84,243	7	99,259	7	114,275	7	129,279	7	144,262
1/4	9,496	1/4	24,481	1/4	39,498	1/4	54,512	1/4	69,537	1/4	84,556	1/4	99,572	1/4	114,587	1/4	129,591	1/4	144,557
1/2	9,801	1/2	24,794	1/2	39,811	1/2	54,825	1/2	69,850	1/2	84,868	1/2	99,885	1/2	114,900	1/2	129,904	1/2	144,853
3/4	10,106	3/4	25,107	3/4	40,123	3/4	55,138	3/4	70,163	3/4	85,180	3/4	100,198	3/4	115,213	3/4	130,216	3/4	145,148
8	10,411	8	25,420	8	40,436	8	55,451	8	70,476	8	85,492	8	100,511	8	115,525	8	130,529	8	145,444
1/4	10,721	1/4	25,733	1/4	40,748	1/4	55,764	1/4	70,789	1/4	85,804	1/4	100,824	1/4	115,838	1/4	130,841	1/4	145,723
1/2	11,031	1/2	26,046	1/2	41,061	1/2	56,077	1/2	71,102	1/2	86,117	1/2	101,137	1/2	116,150	1/2	131,154	1/2	146,002
3/4	11,341	3/4	26,359	3/4	41,373	3/4	56,390	3/4	71,415	3/4	86,429	3/4	101,450	3/4	116,463	3/4	131,467	3/4	146,282
9	11,652	9	26,672	9	41,686	9	56,703	9	71,728	9	86,741	9	101,763	9	116,775	9	131,779	9	146,561
1/4	11,964	1/4	26,985	1/4	41,998	1/4	57,016	1/4	72,041	1/4	87,054	1/4	102,076	1/4	117,088	1/4	132,092	1/4	146,825
1/2	12,277	1/2	27,298	1/2	42,311	1/2	57,329	1/2	72,354	1/2	87,366	1/2	102,389	1/2	117,401	1/2	132,404	1/2	147,088
3/4	12,589	3/4	27,611	3/4	42,623	3/4	57,642	3/4	72,667	3/4	87,679	3/4	102,702	3/4	117,713	3/4	132,717	3/4	147,351
10	12,902	10	27,924	10	42,936	10	57,955	10	72,980	10	87,991	10	103,015	10	118,026	10	133,029	10	147,615
1/4	13,215	1/4	28,237	1/4	43,248	1/4	58,268	1/4	73,293	1/4	88,304	1/4	103,328	1/4	118,338	1/4	133,342	1/4	147,862
1/2	13,527	1/2	28,550	1/2	43,561	1/2	58,581	1/2	73,606	1/2	88,617	1/2	103,641	1/2	118,651	1/2	133,655	1/2	148,110
3/4	13,840	3/4	28,863	3/4	43,873	3/4	58,894	3/4	73,919	3/4	88,930	3/4	103,954	3/4	118,963	3/4	133,967	3/4	148,357
11	14,153	11	29,176	11	44,186	11	59,207	11	74,232	11	89,243	11	104,267	11	119,276	11	134,280	11	148,604
1/4	14,465	1/4	29,489	1/4	44,498	1/4	59,520	1/4	74,545	1/4	89,556	1/4	104,580	1/4	119,589	1/4	134,592	1/4	148,836
1/2	14,778	1/2	29,802	1/2	44,811	1/2	59,833	1/2	74,858	1/2	89,869	1/2	104,893	1/2	119,901	1/2	134,905	1/2	149,067
3/4	15,091	3/4	30,115	3/4	45,124	3/4	60,146	3/4	75,171	3/4	90,182	3/4	105,206	3/4	120,214	3/4	135,218	3/4	149,298

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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BARGE "HFL 411"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	149,529	0	159,916	0	170,281	0	180,617	0	190,939	0		0		0		0		0	
1/4	149,749	1/4	160,132	1/4	170,497	1/4	180,833	1/4	191,132	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,969	1/2	160,348	1/2	170,712	1/2	181,048	1/2	191,325	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,188	3/4	160,565	3/4	170,927	3/4	181,263	3/4	191,518	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	150,408	1	160,781	1	171,143	1	181,479	1	191,711	1	1	1	1	1	1	1	1	1	1
1/4	150,624	1/4	160,997	1/4	171,358	1/4	181,694	1/4	191,871	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,840	1/2	161,213	1/2	171,573	1/2	181,909	1/2	192,031	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,056	3/4	161,429	3/4	171,789	3/4	182,125	3/4	192,191	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	151,272	2	161,645	2	172,004	2	182,340	2	192,350	2	2	2	2	2	2	2	2	2	2
1/4	151,489	1/4	161,861	1/4	172,219	1/4	182,555	1/4	192,474	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,705	1/2	162,077	1/2	172,435	1/2	182,771	1/2	192,598	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,921	3/4	162,293	3/4	172,650	3/4	182,986	3/4	192,721	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	152,137	3	162,509	3	172,865	3	183,201	3	192,845	3	3	3	3	3	3	3	3	3	3
1/4	152,353	1/4	162,726	1/4	173,081	1/4	183,417	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,569	1/2	162,942	1/2	173,296	1/2	183,632	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,785	3/4	163,158	3/4	173,511	3/4	183,847	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	153,001	4	163,374	4	173,727	4	184,063	4		4	4	4	4	4	4	4	4	4	4
1/4	153,217	1/4	163,590	1/4	173,942	1/4	184,278	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,433	1/2	163,806	1/2	174,157	1/2	184,493	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,650	3/4	164,022	3/4	174,373	3/4	184,709	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	153,866	5	164,238	5	174,588	5	184,924	5		5	5	5	5	5	5	5	5	5	5
1/4	154,082	1/4	164,454	1/4	174,803	1/4	185,139	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,298	1/2	164,670	1/2	175,019	1/2	185,355	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,514	3/4	164,886	3/4	175,234	3/4	185,570	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	154,730	6	165,103	6	175,449	6	185,785	6		6	6	6	6	6	6	6	6	6	6
1/4	154,946	1/4	165,319	1/4	175,665	1/4	186,001	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,162	1/2	165,535	1/2	175,880	1/2	186,216	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,378	3/4	165,751	3/4	176,095	3/4	186,431	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	155,594	7	165,967	7	176,311	7	186,647	7		7	7	7	7	7	7	7	7	7	7
1/4	155,810	1/4	166,183	1/4	176,526	1/4	186,862	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,027	1/2	166,399	1/2	176,741	1/2	187,077	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,243	3/4	166,615	3/4	176,957	3/4	187,293	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	156,459	8	166,831	8	177,172	8	187,508	8		8	8	8	8	8	8	8	8	8	8
1/4	156,675	1/4	167,047	1/4	177,387	1/4	187,724	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,891	1/2	167,264	1/2	177,603	1/2	187,939	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,107	3/4	167,480	3/4	177,818	3/4	188,155	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	157,323	9	167,696	9	178,033	9	188,370	9		9	9	9	9	9	9	9	9	9	9
1/4	157,539	1/4	167,911	1/4	178,249	1/4	188,585	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,755	1/2	168,127	1/2	178,464	1/2	188,801	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,971	3/4	168,343	3/4	178,679	3/4	189,016	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	158,188	10	168,559	10	178,895	10	189,232	10		10	10	10	10	10	10	10	10	10	10
1/4	158,404	1/4	168,774	1/4	179,110	1/4	189,447	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,620	1/2	168,989	1/2	179,325	1/2	189,662	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,836	3/4	169,205	3/4	179,541	3/4	189,877	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	159,052	11	169,420	11	179,756	11	190,092	11		11	11	11	11	11	11	11	11	11	11
1/4	159,268	1/4	169,635	1/4	179,971	1/4	190,304	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,484	1/2	169,851	1/2	180,187	1/2	190,515	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,700	3/4	170,066	3/4	180,402	3/4	190,727	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

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



BARGE "HFL 411"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00 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	96	0	1,249	0	2,402	0	3,553	0	4,706	0		0		0		0		0	
1/4	120	1/4	1,273	1/4	2,426	1/4	3,578	1/4	4,730	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,297	1/2	2,449	1/2	3,602	1/2	4,754	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,321	3/4	2,473	3/4	3,626	3/4	4,777	3/4		3/4		3/4		3/4		3/4	
1	192	1	1,345	1	2,497	1	3,650	1	4,801	1		1		1		1		1	
1/4	216	1/4	1,369	1/4	2,521	1/4	3,674	1/4	4,825	1/4		1/4		1/4		1/4		1/4	
1/2	240	1/2	1,393	1/2	2,545	1/2	3,698	1/2	4,848	1/2		1/2		1/2		1/2		1/2	
3/4	264	3/4	1,417	3/4	2,569	3/4	3,722	3/4	4,872	3/4		3/4		3/4		3/4		3/4	
2	288	2	1,441	2	2,593	2	3,746	2	4,896	2		2		2		2		2	
1/4	312	1/4	1,465	1/4	2,617	1/4	3,770	1/4	4,919	1/4		1/4		1/4		1/4		1/4	
1/2	336	1/2	1,489	1/2	2,641	1/2	3,794	1/2	4,943	1/2		1/2		1/2		1/2		1/2	
3/4	360	3/4	1,513	3/4	2,665	3/4	3,818	3/4	4,967	3/4		3/4		3/4		3/4		3/4	
3	384	3	1,537	3	2,689	3	3,842	3	4,990	3		3		3		3		3	
1/4	408	1/4	1,561	1/4	2,713	1/4	3,866	1/4	5,014	1/4		1/4		1/4		1/4		1/4	
1/2	432	1/2	1,585	1/2	2,737	1/2	3,890	1/2	5,037	1/2		1/2		1/2		1/2		1/2	
3/4	456	3/4	1,609	3/4	2,761	3/4	3,914	3/4	5,061	3/4		3/4		3/4		3/4		3/4	
4	480	4	1,633	4	2,785	4	3,938	4	5,084	4		4		4		4		4	
1/4	504	1/4	1,657	1/4	2,809	1/4	3,962	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	528	1/2	1,681	1/2	2,833	1/2	3,986	1/2	5,108	1/2		1/2		1/2		1/2		1/2	
3/4	552	3/4	1,705	3/4	2,857	3/4	4,010	3/4	5,119	3/4		3/4		3/4		3/4		3/4	
5	577	5	1,729	5	2,881	5	4,034	5	5,131	5		5		5		5		5	
1/4	601	1/4	1,753	1/4	2,905	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	625	1/2	1,777	1/2	2,929	1/2	4,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,801	3/4	2,953	3/4	4,106	3/4		3/4		3/4		3/4		3/4		3/4	
6	673	6	1,825	6	2,977	6	4,130	6		6		6		6		6		6	
1/4	697	1/4	1,849	1/4	3,001	1/4	4,154	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	721	1/2	1,873	1/2	3,025	1/2	4,178	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	745	3/4	1,897	3/4	3,049	3/4	4,202	3/4		3/4		3/4		3/4		3/4		3/4	
7	769	7	1,921	7	3,073	7	4,226	7		7		7		7		7		7	
1/4	793	1/4	1,945	1/4	3,097	1/4	4,250	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	817	1/2	1,969	1/2	3,121	1/2	4,274	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	841	3/4	1,993	3/4	3,145	3/4	4,298	3/4		3/4		3/4		3/4		3/4		3/4	
8	865	8	2,017	8	3,169	8	4,322	8		8		8		8		8		8	
1/4	889	1/4	2,042	1/4	3,193	1/4	4,346	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	913	1/2	2,066	1/2	3,217	1/2	4,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	937	3/4	2,090	3/4	3,241	3/4	4,394	3/4		3/4		3/4		3/4		3/4		3/4	
9	961	9	2,114	9	3,265	9	4,418	9		9		9		9		9		9	
1/4	985	1/4	2,138	1/4	3,289	1/4	4,442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,009	1/2	2,162	1/2	3,313	1/2	4,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,186	3/4	3,337	3/4	4,490	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,057	10	2,210	10	3,361	10	4,514	10		10		10		10		10		10	
1/4	1,081	1/4	2,234	1/4	3,385	1/4	4,538	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,105	1/2	2,258	1/2	3,409	1/2	4,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,129	3/4	2,282	3/4	3,433	3/4	4,586	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,153	11	2,306	11	3,457	11	4,610	11		11		11		11		11		11	
1/4	1,177	1/4	2,330	1/4	3,481	1/4	4,634	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,201	1/2	2,354	1/2	3,505	1/2	4,658	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,225	3/4	2,378	3/4	3,529	3/4	4,682	3/4		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.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

STRAPPED: 02/09/2012 CL - SW

CALCULATED: 02/10/2012 CL

PRINTED: 02/10/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 411"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

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	96	0	1,249	0	2,402	0	3,553	0	4,706	0		0		0		0		0	
1/4	120	1/4	1,273	1/4	2,426	1/4	3,578	1/4	4,730	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,297	1/2	2,449	1/2	3,602	1/2	4,754	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,321	3/4	2,473	3/4	3,626	3/4	4,777	3/4		3/4		3/4		3/4		3/4	
1	192	1	1,345	1	2,497	1	3,650	1	4,801	1		1		1		1		1	
1/4	216	1/4	1,369	1/4	2,521	1/4	3,674	1/4	4,825	1/4		1/4		1/4		1/4		1/4	
1/2	240	1/2	1,393	1/2	2,545	1/2	3,698	1/2	4,848	1/2		1/2		1/2		1/2		1/2	
3/4	264	3/4	1,417	3/4	2,569	3/4	3,722	3/4	4,872	3/4		3/4		3/4		3/4		3/4	
2	288	2	1,441	2	2,593	2	3,746	2	4,896	2		2		2		2		2	
1/4	312	1/4	1,465	1/4	2,617	1/4	3,770	1/4	4,919	1/4		1/4		1/4		1/4		1/4	
1/2	336	1/2	1,489	1/2	2,641	1/2	3,794	1/2	4,943	1/2		1/2		1/2		1/2		1/2	
3/4	360	3/4	1,513	3/4	2,665	3/4	3,818	3/4	4,967	3/4		3/4		3/4		3/4		3/4	
3	384	3	1,537	3	2,689	3	3,842	3	4,990	3		3		3		3		3	
1/4	408	1/4	1,561	1/4	2,713	1/4	3,866	1/4	5,014	1/4		1/4		1/4		1/4		1/4	
1/2	432	1/2	1,585	1/2	2,737	1/2	3,890	1/2	5,037	1/2		1/2		1/2		1/2		1/2	
3/4	456	3/4	1,609	3/4	2,761	3/4	3,914	3/4	5,061	3/4		3/4		3/4		3/4		3/4	
4	480	4	1,633	4	2,785	4	3,938	4	5,084	4		4		4		4		4	
1/4	504	1/4	1,657	1/4	2,809	1/4	3,962	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	528	1/2	1,681	1/2	2,833	1/2	3,986	1/2	5,108	1/2		1/2		1/2		1/2		1/2	
3/4	552	3/4	1,705	3/4	2,857	3/4	4,010	3/4	5,119	3/4		3/4		3/4		3/4		3/4	
5	577	5	1,729	5	2,881	5	4,034	5	5,131	5		5		5		5		5	
1/4	601	1/4	1,753	1/4	2,905	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	625	1/2	1,777	1/2	2,929	1/2	4,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,801	3/4	2,953	3/4	4,106	3/4		3/4		3/4		3/4		3/4		3/4	
6	673	6	1,825	6	2,977	6	4,130	6		6		6		6		6		6	
1/4	697	1/4	1,849	1/4	3,001	1/4	4,154	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	721	1/2	1,873	1/2	3,025	1/2	4,178	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	745	3/4	1,897	3/4	3,049	3/4	4,202	3/4		3/4		3/4		3/4		3/4		3/4	
7	769	7	1,921	7	3,073	7	4,226	7		7		7		7		7		7	
1/4	793	1/4	1,945	1/4	3,097	1/4	4,250	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	817	1/2	1,969	1/2	3,121	1/2	4,274	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	841	3/4	1,993	3/4	3,145	3/4	4,298	3/4		3/4		3/4		3/4		3/4		3/4	
8	865	8	2,017	8	3,169	8	4,322	8		8		8		8		8		8	
1/4	889	1/4	2,042	1/4	3,193	1/4	4,346	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	913	1/2	2,066	1/2	3,217	1/2	4,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	937	3/4	2,090	3/4	3,241	3/4	4,394	3/4		3/4		3/4		3/4		3/4		3/4	
9	961	9	2,114	9	3,265	9	4,418	9		9		9		9		9		9	
1/4	985	1/4	2,138	1/4	3,289	1/4	4,442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,009	1/2	2,162	1/2	3,313	1/2	4,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,186	3/4	3,337	3/4	4,490	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,057	10	2,210	10	3,361	10	4,514	10		10		10		10		10		10	
1/4	1,081	1/4	2,234	1/4	3,385	1/4	4,538	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,105	1/2	2,258	1/2	3,409	1/2	4,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,129	3/4	2,282	3/4	3,433	3/4	4,586	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,153	11	2,306	11	3,457	11	4,610	11		11		11		11		11		11	
1/4	1,177	1/4	2,330	1/4	3,481	1/4	4,634	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,201	1/2	2,354	1/2	3,505	1/2	4,658	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,225	3/4	2,378	3/4	3,529	3/4	4,682	3/4		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.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

STRAPPED: 02/09/2012 CL - SW
CALCULATED: 02/10/2012 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2012

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