



BARGE "HSM 3000"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 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
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	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 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	- 00-1/8	00-1/8
3 STBD	- 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	- 00-1/8	00-1/8

(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 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"

October 13, 2016

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

<http://www.pmacorp.net>



BARGE "HSM 3000"

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	199,711	0	184,745	0	169,762	0	154,752	0	139,741	0	124,730	0	109,719	0	94,702
1/4		1/4		1/4	199,400	1/4	184,433	1/4	169,450	1/4	154,439	1/4	139,428	1/4	124,417	1/4	109,406	1/4	94,389
1/2		1/2		1/2	199,089	1/2	184,121	1/2	169,137	1/2	154,126	1/2	139,115	1/2	124,104	1/2	109,093	1/2	94,076
3/4		3/4		3/4	198,777	3/4	183,810	3/4	168,824	3/4	153,813	3/4	138,802	3/4	123,791	3/4	108,781	3/4	93,764
1		1		1	198,465	1	183,498	1	168,512	1	153,501	1	138,490	1	123,479	1	108,468	1	93,451
1/4		1/4		1/4	198,153	1/4	183,186	1/4	168,199	1/4	153,188	1/4	138,177	1/4	123,166	1/4	108,155	1/4	93,138
1/2		1/2		1/2	197,841	1/2	182,874	1/2	167,886	1/2	152,875	1/2	137,864	1/2	122,853	1/2	107,842	1/2	92,825
3/4		3/4		3/4	197,530	3/4	182,562	3/4	167,573	3/4	152,562	3/4	137,551	3/4	122,541	3/4	107,529	3/4	92,512
2		2		2	197,218	2	182,251	2	167,261	2	152,250	2	137,239	2	122,228	2	107,217	2	92,199
1/4		1/4		1/4	210,823	1/4	196,906	1/4	181,939	1/4	166,948	1/4	151,937	1/4	136,926	1/4	121,915	1/4	106,904
1/2		1/2		1/2	210,644	1/2	196,594	1/2	181,627	1/2	166,635	1/2	151,624	1/2	136,613	1/2	121,602	1/2	106,591
3/4		3/4		3/4	210,464	3/4	196,282	3/4	181,315	3/4	166,322	3/4	151,312	3/4	136,301	3/4	121,290	3/4	106,278
3		3		3	210,285	3	195,970	3	181,003	3	166,010	3	150,999	3	135,988	3	120,977	3	105,965
1/4		1/4		1/4	210,105	1/4	195,659	1/4	180,692	1/4	165,697	1/4	150,686	1/4	135,675	1/4	120,664	1/4	105,652
1/2		1/2		1/2	209,874	1/2	195,347	1/2	180,380	1/2	165,384	1/2	150,373	1/2	135,362	1/2	120,351	1/2	105,340
3/4		3/4		3/4	209,642	3/4	195,035	3/4	180,068	3/4	165,072	3/4	150,061	3/4	135,050	3/4	120,039	3/4	105,027
4		4		4	209,410	4	194,723	4	179,756	4	164,759	4	149,748	4	134,737	4	119,726	4	104,714
1/4		1/4		1/4	209,179	1/4	194,411	1/4	179,444	1/4	164,446	1/4	149,435	1/4	134,424	1/4	119,413	1/4	104,401
1/2		1/2		1/2	208,899	1/2	194,100	1/2	179,132	1/2	164,133	1/2	149,122	1/2	134,111	1/2	119,101	1/2	104,088
3/4		3/4		3/4	208,619	3/4	193,788	3/4	178,821	3/4	163,821	3/4	148,810	3/4	133,799	3/4	118,788	3/4	103,775
5		5		5	208,339	5	193,476	5	178,509	5	163,508	5	148,497	5	133,486	5	118,475	5	103,462
1/4		1/4		1/4	208,059	1/4	193,164	1/4	178,197	1/4	163,195	1/4	148,184	1/4	133,173	1/4	118,162	1/4	103,150
1/2		1/2		1/2	207,753	1/2	192,852	1/2	177,885	1/2	162,882	1/2	147,871	1/2	132,861	1/2	117,850	1/2	102,837
3/4		3/4		3/4	207,448	3/4	192,541	3/4	177,573	3/4	162,570	3/4	147,559	3/4	132,548	3/4	117,537	3/4	102,524
6		6		6	207,142	6	192,229	6	177,262	6	162,257	6	147,246	6	132,235	6	117,224	6	102,211
1/4		1/4		1/4	206,836	1/4	191,917	1/4	176,950	1/4	161,944	1/4	146,933	1/4	131,922	1/4	116,911	1/4	101,898
1/2		1/2		1/2	206,527	1/2	191,605	1/2	176,638	1/2	161,632	1/2	146,621	1/2	131,610	1/2	116,599	1/2	101,585
3/4		3/4		3/4	206,218	3/4	191,293	3/4	176,326	3/4	161,319	3/4	146,308	3/4	131,297	3/4	116,286	3/4	101,272
7		7		7	205,909	7	190,981	7	176,014	7	161,006	7	145,995	7	130,984	7	115,973	7	100,959
1/4		1/4		1/4	205,599	1/4	190,670	1/4	175,702	1/4	160,693	1/4	145,682	1/4	130,671	1/4	115,661	1/4	100,647
1/2		1/2		1/2	205,290	1/2	190,358	1/2	175,390	1/2	160,381	1/2	145,370	1/2	130,359	1/2	115,348	1/2	100,334
3/4		3/4		3/4	204,980	3/4	190,046	3/4	175,078	3/4	160,068	3/4	145,057	3/4	130,046	3/4	115,035	3/4	100,021
8		8		8	204,670	8	189,734	8	174,766	8	159,755	8	144,744	8	129,733	8	114,722	8	99,708
1/4		1/4		1/4	204,360	1/4	189,422	1/4	174,453	1/4	159,442	1/4	144,431	1/4	129,421	1/4	114,410	1/4	99,395
1/2		1/2		1/2	204,051	1/2	189,111	1/2	174,141	1/2	159,130	1/2	144,119	1/2	129,108	1/2	114,097	1/2	99,082
3/4		3/4		3/4	203,741	3/4	188,799	3/4	173,828	3/4	158,817	3/4	143,806	3/4	128,795	3/4	113,784	3/4	98,769
9		9		9	203,431	9	188,487	9	173,515	9	158,504	9	143,493	9	128,482	9	113,471	9	98,457
1/4		1/4		1/4	203,121	1/4	188,175	1/4	173,202	1/4	158,192	1/4	143,181	1/4	128,170	1/4	113,159	1/4	98,144
1/2		1/2		1/2	202,811	1/2	187,863	1/2	172,890	1/2	157,879	1/2	142,868	1/2	127,857	1/2	112,846	1/2	97,831
3/4		3/4		3/4	202,502	3/4	187,551	3/4	172,577	3/4	157,566	3/4	142,555	3/4	127,544	3/4	112,533	3/4	97,518
10		10		10	202,192	10	187,240	10	172,264	10	157,253	10	142,242	10	127,231	10	112,221	10	97,205
1/4		1/4		1/4	201,882	1/4	186,928	1/4	171,952	1/4	156,941	1/4	141,930	1/4	126,919	1/4	111,908	1/4	96,892
1/2		1/2		1/2	201,572	1/2	186,616	1/2	171,639	1/2	156,628	1/2	141,617	1/2	126,606	1/2	111,595	1/2	96,579
3/4		3/4		3/4	201,263	3/4	186,304	3/4	171,326	3/4	156,315	3/4	141,304	3/4	126,293	3/4	111,282	3/4	96,267
11		11		11	200,953	11	185,992	11	171,013	11	156,002	11	140,991	11	125,981	11	110,970	11	95,954
1/4		1/4		1/4	200,643	1/4	185,681	1/4	170,701	1/4	155,690	1/4	140,679	1/4	125,668	1/4	110,657	1/4	95,641
1/2		1/2		1/2	200,333	1/2	185,369	1/2	170,388	1/2	155,377	1/2	140,366	1/2	125,355	1/2	110,344	1/2	95,328
3/4		3/4		3/4	200,022	3/4	185,057	3/4	170,075	3/4	155,064	3/4	140,053	3/4	125,042	3/4	110,031	3/4	95,015

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.

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BARGE "HSM 3000"

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	79,685	0	64,668	0	49,750	0	34,737	0	19,720	0	5,516	0		0		0		0	
1/4	79,372	1/4	64,355	1/4	49,439	1/4	34,425	1/4	19,408	1/4	5,242	1/4		1/4		1/4		1/4	
1/2	79,059	1/2	64,044	1/2	49,127	1/2	34,112	1/2	19,095	1/2	4,971	1/2		1/2		1/2		1/2	
3/4	78,746	3/4	63,732	3/4	48,814	3/4	33,799	3/4	18,782	3/4	4,701	3/4		3/4		3/4		3/4	
1	78,433	1	63,420	1	48,502	1	33,486	1	18,469	1	4,430	1		1		1		1	
1/4	78,120	1/4	63,109	1/4	48,190	1/4	33,173	1/4	18,156	1/4	4,160	1/4		1/4		1/4		1/4	
1/2	77,808	1/2	62,798	1/2	47,877	1/2	32,860	1/2	17,844	1/2	3,894	1/2		1/2		1/2		1/2	
3/4	77,495	3/4	62,487	3/4	47,564	3/4	32,547	3/4	17,532	3/4	3,627	3/4		3/4		3/4		3/4	
2	77,182	2	62,177	2	47,252	2	32,235	2	17,221	2	3,361	2		2		2		2	
1/4	76,869	1/4	61,866	1/4	46,939	1/4	31,922	1/4	16,909	1/4	3,094	1/4		1/4		1/4		1/4	
1/2	76,556	1/2	61,556	1/2	46,626	1/2	31,609	1/2	16,600	1/2	2,833	1/2		1/2		1/2		1/2	
3/4	76,243	3/4	61,245	3/4	46,313	3/4	31,296	3/4	16,291	3/4	2,571	3/4		3/4		3/4		3/4	
3	75,930	3	60,934	3	46,000	3	30,983	3	15,982	3	2,309	3		3		3		3	
1/4	75,618	1/4	60,624	1/4	45,687	1/4	30,670	1/4	15,673	1/4	2,047	1/4		1/4		1/4		1/4	
1/2	75,305	1/2	60,313	1/2	45,374	1/2	30,358	1/2	15,367	1/2	1,809	1/2		1/2		1/2		1/2	
3/4	74,992	3/4	60,003	3/4	45,062	3/4	30,045	3/4	15,062	3/4	1,570	3/4		3/4		3/4		3/4	
4	74,679	4	59,692	4	44,749	4	29,732	4	14,757	4	1,331	4		4		4		4	
1/4	74,366	1/4	59,382	1/4	44,436	1/4	29,419	1/4	14,452	1/4	1,093	1/4		1/4		1/4		1/4	
1/2	74,053	1/2	59,071	1/2	44,123	1/2	29,106	1/2	14,151	1/2	916	1/2		1/2		1/2		1/2	
3/4	73,740	3/4	58,761	3/4	43,810	3/4	28,793	3/4	13,849	3/4	739	3/4		3/4		3/4		3/4	
5	73,427	5	58,450	5	43,497	5	28,480	5	13,548	5	562	5		5		5		5	
1/4	73,115	1/4	58,140	1/4	43,185	1/4	28,168	1/4	13,247	1/4	385	1/4		1/4		1/4		1/4	
1/2	72,802	1/2	57,829	1/2	42,872	1/2	27,855	1/2	12,949	1/2		1/2		1/2		1/2		1/2	
3/4	72,489	3/4	57,519	3/4	42,559	3/4	27,542	3/4	12,652	3/4		3/4		3/4		3/4		3/4	
6	72,176	6	57,208	6	42,246	6	27,229	6	12,354	6		6		6		6		6	
1/4	71,863	1/4	56,898	1/4	41,933	1/4	26,916	1/4	12,057	1/4		1/4		1/4		1/4		1/4	
1/2	71,550	1/2	56,587	1/2	41,620	1/2	26,603	1/2	11,763	1/2		1/2		1/2		1/2		1/2	
3/4	71,237	3/4	56,277	3/4	41,307	3/4	26,290	3/4	11,470	3/4		3/4		3/4		3/4		3/4	
7	70,925	7	55,966	7	40,995	7	25,978	7	11,176	7		7		7		7		7	
1/4	70,612	1/4	55,656	1/4	40,682	1/4	25,665	1/4	10,883	1/4		1/4		1/4		1/4		1/4	
1/2	70,299	1/2	55,345	1/2	40,369	1/2	25,352	1/2	10,593	1/2		1/2		1/2		1/2		1/2	
3/4	69,986	3/4	55,035	3/4	40,056	3/4	25,039	3/4	10,303	3/4		3/4		3/4		3/4		3/4	
8	69,673	8	54,724	8	39,743	8	24,726	8	10,013	8		8		8		8		8	
1/4	69,360	1/4	54,414	1/4	39,430	1/4	24,413	1/4	9,724	1/4		1/4		1/4		1/4		1/4	
1/2	69,047	1/2	54,103	1/2	39,117	1/2	24,100	1/2	9,438	1/2		1/2		1/2		1/2		1/2	
3/4	68,735	3/4	53,793	3/4	38,805	3/4	23,788	3/4	9,152	3/4		3/4		3/4		3/4		3/4	
9	68,422	9	53,483	9	38,492	9	23,475	9	8,866	9		9		9		9		9	
1/4	68,109	1/4	53,172	1/4	38,179	1/4	23,162	1/4	8,580	1/4		1/4		1/4		1/4		1/4	
1/2	67,796	1/2	52,861	1/2	37,866	1/2	22,849	1/2	8,298	1/2		1/2		1/2		1/2		1/2	
3/4	67,483	3/4	52,551	3/4	37,553	3/4	22,536	3/4	8,016	3/4		3/4		3/4		3/4		3/4	
10	67,170	10	52,240	10	37,240	10	22,223	10	7,734	10		10		10		10		10	
1/4	66,857	1/4	51,929	1/4	36,927	1/4	21,910	1/4	7,452	1/4		1/4		1/4		1/4		1/4	
1/2	66,544	1/2	51,618	1/2	36,615	1/2	21,598	1/2	7,174	1/2		1/2		1/2		1/2		1/2	
3/4	66,232	3/4	51,307	3/4	36,302	3/4	21,285	3/4	6,896	3/4		3/4		3/4		3/4		3/4	
11	65,919	11	50,996	11	35,989	11	20,972	11	6,617	11		11		11		11		11	
1/4	65,606	1/4	50,684	1/4	35,676	1/4	20,659	1/4	6,339	1/4		1/4		1/4		1/4		1/4	
1/2	65,293	1/2	50,373	1/2	35,363	1/2	20,346	1/2	6,065	1/2		1/2		1/2		1/2		1/2	
3/4	64,981	3/4	50,062	3/4	35,050	3/4	20,033	3/4	5,790	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

1 STBD 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	200,137	0	185,146	0	170,138	0	155,103	0	140,067	0	125,031	0	109,996	0	94,955
1/4		1/4		1/4	199,826	1/4	184,834	1/4	169,825	1/4	154,789	1/4	139,754	1/4	124,718	1/4	109,683	1/4	94,641
1/2		1/2		1/2	199,513	1/2	184,521	1/2	169,512	1/2	154,476	1/2	139,440	1/2	124,405	1/2	109,369	1/2	94,328
3/4		3/4		3/4	199,201	3/4	184,209	3/4	169,199	3/4	154,163	3/4	139,127	3/4	124,092	3/4	109,056	3/4	94,015
1		1		1	198,889	1	183,897	1	168,886	1	153,850	1	138,814	1	123,778	1	108,743	1	93,701
1/4		1/4		1/4	198,576	1/4	183,584	1/4	168,572	1/4	153,536	1/4	138,501	1/4	123,465	1/4	108,430	1/4	93,388
1/2		1/2		1/2	198,264	1/2	183,272	1/2	168,259	1/2	153,223	1/2	138,187	1/2	123,152	1/2	108,116	1/2	93,074
3/4		3/4		3/4	197,952	3/4	182,960	3/4	167,946	3/4	152,910	3/4	137,874	3/4	122,839	3/4	107,803	3/4	92,761
2		2		2	197,639	2	182,647	2	167,633	2	152,597	2	137,561	2	122,525	2	107,490	2	92,448
1/4		1/4		1/4	211,267	1/4	197,327	1/4	182,335	1/4	167,319	1/4	152,283	1/4	137,248	1/4	122,212	1/4	107,176
1/2		1/2		1/2	211,087	1/2	197,015	1/2	182,023	1/2	167,006	1/2	151,970	1/2	136,934	1/2	121,899	1/2	106,863
3/4		3/4		3/4	210,908	3/4	196,702	3/4	181,710	3/4	166,693	3/4	151,657	3/4	136,621	3/4	121,586	3/4	106,550
3		3		3	210,728	3	196,390	3	181,398	3	166,380	3	151,344	3	136,308	3	121,272	3	106,236
1/4		1/4		1/4	210,548	1/4	196,078	1/4	181,086	1/4	166,066	1/4	151,031	1/4	135,995	1/4	120,959	1/4	105,923
1/2		1/2		1/2	210,316	1/2	195,765	1/2	180,773	1/2	165,753	1/2	150,717	1/2	135,681	1/2	120,646	1/2	105,609
3/4		3/4		3/4	210,084	3/4	195,453	3/4	180,461	3/4	165,440	3/4	150,404	3/4	135,368	3/4	120,333	3/4	105,296
4		4		4	209,852	4	195,141	4	180,149	4	165,127	4	150,091	4	135,055	4	120,019	4	104,983
1/4		1/4		1/4	209,620	1/4	194,828	1/4	179,836	1/4	164,813	1/4	149,778	1/4	134,742	1/4	119,706	1/4	104,669
1/2		1/2		1/2	209,340	1/2	194,516	1/2	179,524	1/2	164,500	1/2	149,464	1/2	134,429	1/2	119,393	1/2	104,356
3/4		3/4		3/4	209,059	3/4	194,204	3/4	179,212	3/4	164,187	3/4	149,151	3/4	134,115	3/4	119,080	3/4	104,043
5		5		5	208,779	5	193,891	5	178,899	5	163,874	5	148,838	5	133,802	5	118,767	5	103,729
1/4		1/4		1/4	208,498	1/4	193,579	1/4	178,587	1/4	163,560	1/4	148,525	1/4	133,489	1/4	118,453	1/4	103,416
1/2		1/2		1/2	208,192	1/2	193,267	1/2	178,275	1/2	163,247	1/2	148,211	1/2	133,176	1/2	118,140	1/2	103,102
3/4		3/4		3/4	207,886	3/4	192,954	3/4	177,962	3/4	162,934	3/4	147,898	3/4	132,862	3/4	117,827	3/4	102,789
6		6		6	207,580	6	192,642	6	177,650	6	162,621	6	147,585	6	132,549	6	117,514	6	102,476
1/4		1/4		1/4	207,274	1/4	192,330	1/4	177,338	1/4	162,307	1/4	147,272	1/4	132,236	1/4	117,200	1/4	102,162
1/2		1/2		1/2	206,964	1/2	192,017	1/2	177,025	1/2	161,994	1/2	146,958	1/2	131,923	1/2	116,887	1/2	101,849
3/4		3/4		3/4	206,654	3/4	191,705	3/4	176,713	3/4	161,681	3/4	146,645	3/4	131,609	3/4	116,574	3/4	101,536
7		7		7	206,344	7	191,393	7	176,401	7	161,368	7	146,332	7	131,296	7	116,261	7	101,222
1/4		1/4		1/4	206,035	1/4	191,080	1/4	176,088	1/4	161,054	1/4	146,019	1/4	130,983	1/4	115,947	1/4	100,909
1/2		1/2		1/2	205,724	1/2	190,768	1/2	175,776	1/2	160,741	1/2	145,705	1/2	130,670	1/2	115,634	1/2	100,595
3/4		3/4		3/4	205,414	3/4	190,456	3/4	175,463	3/4	160,428	3/4	145,392	3/4	130,356	3/4	115,321	3/4	100,282
8		8		8	205,104	8	190,143	8	175,150	8	160,115	8	145,079	8	130,043	8	115,008	8	99,969
1/4		1/4		1/4	204,794	1/4	189,831	1/4	174,837	1/4	159,801	1/4	144,766	1/4	129,730	1/4	114,694	1/4	99,655
1/2		1/2		1/2	204,483	1/2	189,519	1/2	174,524	1/2	159,488	1/2	144,452	1/2	129,417	1/2	114,381	1/2	99,342
3/4		3/4		3/4	204,173	3/4	189,206	3/4	174,211	3/4	159,175	3/4	144,139	3/4	129,103	3/4	114,068	3/4	99,029
9		9		9	203,863	9	188,894	9	173,897	9	158,862	9	143,826	9	128,790	9	113,755	9	98,715
1/4		1/4		1/4	203,552	1/4	188,582	1/4	173,584	1/4	158,548	1/4	143,513	1/4	128,477	1/4	113,441	1/4	98,402
1/2		1/2		1/2	203,242	1/2	188,269	1/2	173,271	1/2	158,235	1/2	143,199	1/2	128,164	1/2	113,128	1/2	98,088
3/4		3/4		3/4	202,932	3/4	187,957	3/4	172,958	3/4	157,922	3/4	142,886	3/4	127,850	3/4	112,815	3/4	97,775
10		10		10	202,622	10	187,645	10	172,644	10	157,609	10	142,573	10	127,537	10	112,502	10	97,462
1/4		1/4		1/4	202,311	1/4	187,332	1/4	172,331	1/4	157,295	1/4	142,260	1/4	127,224	1/4	112,188	1/4	97,148
1/2		1/2		1/2	202,001	1/2	187,020	1/2	172,018	1/2	156,982	1/2	141,946	1/2	126,911	1/2	111,875	1/2	96,835
3/4		3/4		3/4	201,691	3/4	186,708	3/4	171,705	3/4	156,669	3/4	141,633	3/4	126,598	3/4	111,562	3/4	96,522
11		11		11	201,381	11	186,395	11	171,391	11	156,356	11	141,320	11	126,284	11	111,249	11	96,208
1/4		1/4		1/4	201,071	1/4	186,083	1/4	171,078	1/4	156,042	1/4	141,007	1/4	125,971	1/4	110,936	1/4	95,895
1/2		1/2		1/2	200,759	1/2	185,771	1/2	170,765	1/2	155,729	1/2	140,693	1/2	125,658	1/2	110,622	1/2	95,581
3/4		3/4		3/4	200,448	3/4	185,458	3/4	170,452	3/4	155,416	3/4	140,380	3/4	125,345	3/4	110,309	3/4	95,268

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 "HSM 3000"

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	79,913	0	64,871	0	49,836	0	34,794	0	19,753	0	5,255	0		0		0		0	
1/4	79,599	1/4	64,557	1/4	49,523	1/4	34,481	1/4	19,439	1/4	5,250	1/4		1/4		1/4		1/4	
1/2	79,286	1/2	64,244	1/2	49,209	1/2	34,168	1/2	19,126	1/2	4,979	1/2		1/2		1/2		1/2	
3/4	78,973	3/4	63,930	3/4	48,896	3/4	33,854	3/4	18,813	3/4	4,709	3/4		3/4		3/4		3/4	
1	78,659	1	63,617	1	48,583	1	33,541	1	18,499	1	4,438	1		1		1		1	
1/4	78,346	1/4	63,304	1/4	48,269	1/4	33,228	1/4	18,186	1/4	4,167	1/4		1/4		1/4		1/4	
1/2	78,032	1/2	62,990	1/2	47,956	1/2	32,914	1/2	17,874	1/2	3,900	1/2		1/2		1/2		1/2	
3/4	77,719	3/4	62,677	3/4	47,642	3/4	32,601	3/4	17,561	3/4	3,633	3/4		3/4		3/4		3/4	
2	77,406	2	62,364	2	47,329	2	32,287	2	17,249	2	3,366	2		2		2		2	
1/4	77,092	1/4	62,050	1/4	47,016	1/4	31,974	1/4	16,936	1/4	3,099	1/4		1/4		1/4		1/4	
1/2	76,779	1/2	61,737	1/2	46,702	1/2	31,661	1/2	16,627	1/2	2,837	1/2		1/2		1/2		1/2	
3/4	76,466	3/4	61,424	3/4	46,389	3/4	31,347	3/4	16,317	3/4	2,575	3/4		3/4		3/4		3/4	
3	76,152	3	61,111	3	46,076	3	31,034	3	16,008	3	2,313	3		3		3		3	
1/4	75,839	1/4	60,798	1/4	45,762	1/4	30,721	1/4	15,698	1/4	2,051	1/4		1/4		1/4		1/4	
1/2	75,525	1/2	60,484	1/2	45,449	1/2	30,407	1/2	15,393	1/2	1,812	1/2		1/2		1/2		1/2	
3/4	75,212	3/4	60,171	3/4	45,135	3/4	30,094	3/4	15,087	3/4	1,573	3/4		3/4		3/4		3/4	
4	74,899	4	59,858	4	44,822	4	29,781	4	14,781	4	1,334	4		4		4		4	
1/4	74,585	1/4	59,545	1/4	44,509	1/4	29,467	1/4	14,476	1/4	1,095	1/4		1/4		1/4		1/4	
1/2	74,272	1/2	59,232	1/2	44,195	1/2	29,154	1/2	14,174	1/2	917	1/2		1/2		1/2		1/2	
3/4	73,958	3/4	58,919	3/4	43,882	3/4	28,840	3/4	13,872	3/4	740	3/4		3/4		3/4		3/4	
5	73,645	5	58,606	5	43,569	5	28,527	5	13,570	5	563	5		5		5		5	
1/4	73,332	1/4	58,292	1/4	43,255	1/4	28,214	1/4	13,269	1/4	386	1/4		1/4		1/4		1/4	
1/2	73,018	1/2	57,979	1/2	42,942	1/2	27,900	1/2	12,971	1/2		1/2		1/2		1/2		1/2	
3/4	72,705	3/4	57,666	3/4	42,629	3/4	27,587	3/4	12,673	3/4		3/4		3/4		3/4		3/4	
6	72,392	6	57,353	6	42,315	6	27,274	6	12,375	6		6		6		6		6	
1/4	72,078	1/4	57,040	1/4	42,002	1/4	26,960	1/4	12,077	1/4		1/4		1/4		1/4		1/4	
1/2	71,765	1/2	56,727	1/2	41,688	1/2	26,647	1/2	11,783	1/2		1/2		1/2		1/2		1/2	
3/4	71,451	3/4	56,414	3/4	41,375	3/4	26,333	3/4	11,489	3/4		3/4		3/4		3/4		3/4	
7	71,138	7	56,100	7	41,062	7	26,020	7	11,195	7		7		7		7		7	
1/4	70,825	1/4	55,787	1/4	40,748	1/4	25,707	1/4	10,900	1/4		1/4		1/4		1/4		1/4	
1/2	70,511	1/2	55,474	1/2	40,435	1/2	25,393	1/2	10,610	1/2		1/2		1/2		1/2		1/2	
3/4	70,198	3/4	55,161	3/4	40,122	3/4	25,080	3/4	10,320	3/4		3/4		3/4		3/4		3/4	
8	69,885	8	54,848	8	39,808	8	24,767	8	10,030	8		8		8		8		8	
1/4	69,571	1/4	54,535	1/4	39,495	1/4	24,453	1/4	9,740	1/4		1/4		1/4		1/4		1/4	
1/2	69,258	1/2	54,222	1/2	39,182	1/2	24,140	1/2	9,453	1/2		1/2		1/2		1/2		1/2	
3/4	68,944	3/4	53,908	3/4	38,868	3/4	23,827	3/4	9,167	3/4		3/4		3/4		3/4		3/4	
9	68,631	9	53,595	9	38,555	9	23,513	9	8,881	9		9		9		9		9	
1/4	68,318	1/4	53,282	1/4	38,241	1/4	23,200	1/4	8,594	1/4		1/4		1/4		1/4		1/4	
1/2	68,004	1/2	52,969	1/2	37,928	1/2	22,886	1/2	8,312	1/2		1/2		1/2		1/2		1/2	
3/4	67,691	3/4	52,656	3/4	37,615	3/4	22,573	3/4	8,029	3/4		3/4		3/4		3/4		3/4	
10	67,378	10	52,343	10	37,301	10	22,260	10	7,747	10		10		10		10		10	
1/4	67,064	1/4	52,029	1/4	36,988	1/4	21,946	1/4	7,464	1/4		1/4		1/4		1/4		1/4	
1/2	66,751	1/2	51,716	1/2	36,675	1/2	21,633	1/2	7,185	1/2		1/2		1/2		1/2		1/2	
3/4	66,437	3/4	51,403	3/4	36,361	3/4	21,320	3/4	6,907	3/4		3/4		3/4		3/4		3/4	
11	66,124	11	51,089	11	36,048	11	21,006	11	6,628	11		11		11		11		11	
1/4	65,811	1/4	50,776	1/4	35,734	1/4	20,693	1/4	6,350	1/4		1/4		1/4		1/4		1/4	
1/2	65,497	1/2	50,463	1/2	35,421	1/2	20,380	1/2	6,075	1/2		1/2		1/2		1/2		1/2	
3/4	65,184	3/4	50,149	3/4	35,108	3/4	20,066	3/4	5,800	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

2 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	201,821	0	186,812	0	171,783	0	156,722	0	141,660	0	126,599	0	111,537	0	96,469
1/4		1/4		1/4	201,509	1/4	186,499	1/4	171,470	1/4	156,408	1/4	141,346	1/4	126,285	1/4	111,223	1/4	96,155
1/2		1/2		1/2	201,197	1/2	186,186	1/2	171,156	1/2	156,094	1/2	141,033	1/2	125,971	1/2	110,910	1/2	95,841
3/4		3/4		3/4	200,884	3/4	185,874	3/4	170,842	3/4	155,780	3/4	140,719	3/4	125,657	3/4	110,596	3/4	95,527
1		1		1	200,571	1	185,561	1	170,528	1	155,467	1	140,405	1	125,344	1	110,282	1	95,213
1/4		1/4		1/4	200,259	1/4	185,248	1/4	170,214	1/4	155,153	1/4	140,091	1/4	125,030	1/4	109,968	1/4	94,899
1/2		1/2		1/2	199,946	1/2	184,935	1/2	169,901	1/2	154,839	1/2	139,778	1/2	124,716	1/2	109,654	1/2	94,586
3/4		3/4		3/4	199,633	3/4	184,623	3/4	169,587	3/4	154,525	3/4	139,464	3/4	124,402	3/4	109,341	3/4	94,272
2		2		2	199,320	2	184,310	2	169,273	2	154,212	2	139,150	2	124,088	2	109,027	2	93,958
1/4		1/4		1/4	212,929	1/4	199,008	1/4	183,997	1/4	168,959	1/4	153,898	1/4	138,836	1/4	123,775	1/4	108,713
1/2		1/2		1/2	212,750	1/2	198,695	1/2	183,685	1/2	168,645	1/2	153,584	1/2	138,522	1/2	123,461	1/2	108,399
3/4		3/4		3/4	212,571	3/4	198,382	3/4	183,372	3/4	168,332	3/4	153,270	3/4	138,209	3/4	123,147	3/4	108,085
3		3		3	212,392	3	198,070	3	183,059	3	168,018	3	152,956	3	137,895	3	122,833	3	107,771
1/4		1/4		1/4	212,213	1/4	197,757	1/4	182,746	1/4	167,704	1/4	152,643	1/4	137,581	1/4	122,520	1/4	107,457
1/2		1/2		1/2	211,982	1/2	197,444	1/2	182,434	1/2	167,390	1/2	152,329	1/2	137,267	1/2	122,206	1/2	107,143
3/4		3/4		3/4	211,751	3/4	197,131	3/4	182,121	3/4	167,077	3/4	152,015	3/4	136,953	3/4	121,892	3/4	106,829
4		4		4	211,519	4	196,819	4	181,808	4	166,763	4	151,701	4	136,640	4	121,578	4	106,515
1/4		1/4		1/4	211,288	1/4	196,506	1/4	181,496	1/4	166,449	1/4	151,387	1/4	136,326	1/4	121,264	1/4	106,201
1/2		1/2		1/2	211,008	1/2	196,193	1/2	181,183	1/2	166,135	1/2	151,074	1/2	136,012	1/2	120,951	1/2	105,887
3/4		3/4		3/4	210,728	3/4	195,881	3/4	180,870	3/4	165,821	3/4	150,760	3/4	135,698	3/4	120,637	3/4	105,573
5		5		5	210,448	5	195,568	5	180,557	5	165,508	5	150,446	5	135,385	5	120,323	5	105,259
1/4		1/4		1/4	210,169	1/4	195,255	1/4	180,245	1/4	165,194	1/4	150,132	1/4	135,071	1/4	120,009	1/4	104,946
1/2		1/2		1/2	209,863	1/2	194,942	1/2	179,932	1/2	164,880	1/2	149,819	1/2	134,757	1/2	119,695	1/2	104,632
3/4		3/4		3/4	209,558	3/4	194,630	3/4	179,619	3/4	164,566	3/4	149,505	3/4	134,443	3/4	119,382	3/4	104,318
6		6		6	209,252	6	194,317	6	179,307	6	164,253	6	149,191	6	134,129	6	119,068	6	104,004
1/4		1/4		1/4	208,946	1/4	194,004	1/4	178,994	1/4	163,939	1/4	148,877	1/4	133,816	1/4	118,754	1/4	103,690
1/2		1/2		1/2	208,637	1/2	193,692	1/2	178,681	1/2	163,625	1/2	148,563	1/2	133,502	1/2	118,440	1/2	103,376
3/4		3/4		3/4	208,328	3/4	193,379	3/4	178,368	3/4	163,311	3/4	148,250	3/4	133,188	3/4	118,127	3/4	103,062
7		7		7	208,019	7	193,066	7	178,056	7	162,997	7	147,936	7	132,874	7	117,813	7	102,748
1/4		1/4		1/4	207,709	1/4	192,753	1/4	177,743	1/4	162,684	1/4	147,622	1/4	132,561	1/4	117,499	1/4	102,434
1/2		1/2		1/2	207,400	1/2	192,441	1/2	177,430	1/2	162,370	1/2	147,308	1/2	132,247	1/2	117,185	1/2	102,120
3/4		3/4		3/4	207,090	3/4	192,128	3/4	177,117	3/4	162,056	3/4	146,995	3/4	131,933	3/4	116,871	3/4	101,806
8		8		8	206,780	8	191,815	8	176,803	8	161,742	8	146,681	8	131,619	8	116,558	8	101,492
1/4		1/4		1/4	206,471	1/4	191,503	1/4	176,490	1/4	161,428	1/4	146,367	1/4	131,305	1/4	116,244	1/4	101,178
1/2		1/2		1/2	206,161	1/2	191,190	1/2	176,176	1/2	161,115	1/2	146,053	1/2	130,992	1/2	115,930	1/2	100,864
3/4		3/4		3/4	205,851	3/4	190,877	3/4	175,862	3/4	160,801	3/4	145,739	3/4	130,678	3/4	115,616	3/4	100,550
9		9		9	205,541	9	190,564	9	175,549	9	160,487	9	145,426	9	130,364	9	115,303	9	100,236
1/4		1/4		1/4	205,231	1/4	190,252	1/4	175,235	1/4	160,173	1/4	145,112	1/4	130,050	1/4	114,989	1/4	99,923
1/2		1/2		1/2	204,922	1/2	189,939	1/2	174,921	1/2	159,860	1/2	144,798	1/2	129,737	1/2	114,675	1/2	99,609
3/4		3/4		3/4	204,612	3/4	189,626	3/4	174,607	3/4	159,546	3/4	144,484	3/4	129,423	3/4	114,361	3/4	99,295
10		10		10	204,302	10	189,314	10	174,294	10	159,232	10	144,170	10	129,109	10	114,047	10	98,981
1/4		1/4		1/4	203,993	1/4	189,001	1/4	173,980	1/4	158,918	1/4	143,857	1/4	128,795	1/4	113,734	1/4	98,667
1/2		1/2		1/2	203,683	1/2	188,688	1/2	173,666	1/2	158,604	1/2	143,543	1/2	128,481	1/2	113,420	1/2	98,353
3/4		3/4		3/4	203,373	3/4	188,375	3/4	173,352	3/4	158,291	3/4	143,229	3/4	128,168	3/4	113,106	3/4	98,039
11		11		11	203,064	11	188,063	11	173,038	11	157,977	11	142,915	11	127,854	11	112,792	11	97,725
1/4		1/4		1/4	202,754	1/4	187,750	1/4	172,725	1/4	157,663	1/4	142,602	1/4	127,540	1/4	112,479	1/4	97,411
1/2		1/2		1/2	202,443	1/2	187,437	1/2	172,411	1/2	157,349	1/2	142,288	1/2	127,226	1/2	112,165	1/2	97,097
3/4		3/4		3/4	202,132	3/4	187,125	3/4	172,097	3/4	157,036	3/4	141,974	3/4	126,912	3/4	111,851	3/4	96,783

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 "HSM 3000"

2 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	81,400	0	66,331	0	51,792	0	37,323	0	22,292	0	7,223	0		0		0		0	
1/4	81,086	1/4	66,017	1/4	51,489	1/4	37,021	1/4	21,978	1/4	6,909	1/4		1/4		1/4		1/4	
1/2	80,772	1/2	65,709	1/2	51,188	1/2	36,713	1/2	21,664	1/2	6,596	1/2		1/2		1/2		1/2	
3/4	80,458	3/4	65,401	3/4	50,886	3/4	36,405	3/4	21,350	3/4	6,282	3/4		3/4		3/4		3/4	
1	80,144	1	65,093	1	50,584	1	36,097	1	21,036	1	5,968	1		1		1		1	
1/4	79,830	1/4	64,785	1/4	50,282	1/4	35,789	1/4	20,722	1/4	5,654	1/4		1/4		1/4		1/4	
1/2	79,516	1/2	64,483	1/2	49,981	1/2	35,475	1/2	20,408	1/2	5,340	1/2		1/2		1/2		1/2	
3/4	79,203	3/4	64,180	3/4	49,679	3/4	35,161	3/4	20,095	3/4	5,026	3/4		3/4		3/4		3/4	
2	78,889	2	63,878	2	49,378	2	34,847	2	19,781	2	4,713	2		2		2		2	
1/4	78,575	1/4	63,576	1/4	49,076	1/4	34,533	1/4	19,467	1/4	4,399	1/4		1/4		1/4		1/4	
1/2	78,261	1/2	63,274	1/2	48,775	1/2	34,219	1/2	19,153	1/2	4,086	1/2		1/2		1/2		1/2	
3/4	77,947	3/4	62,972	3/4	48,474	3/4	33,905	3/4	18,839	3/4	3,773	3/4		3/4		3/4		3/4	
3	77,633	3	62,670	3	48,172	3	33,591	3	18,525	3	3,460	3		3		3		3	
1/4	77,319	1/4	62,367	1/4	47,871	1/4	33,277	1/4	18,211	1/4	3,147	1/4		1/4		1/4		1/4	
1/2	77,005	1/2	62,065	1/2	47,570	1/2	32,963	1/2	17,897	1/2	2,854	1/2		1/2		1/2		1/2	
3/4	76,691	3/4	61,763	3/4	47,268	3/4	32,649	3/4	17,583	3/4	2,560	3/4		3/4		3/4		3/4	
4	76,377	4	61,461	4	46,967	4	32,335	4	17,269	4	2,267	4		4		4		4	
1/4	76,063	1/4	61,159	1/4	46,666	1/4	32,022	1/4	16,955	1/4	1,973	1/4		1/4		1/4		1/4	
1/2	75,749	1/2	60,857	1/2	46,365	1/2	31,708	1/2	16,641	1/2	1,738	1/2		1/2		1/2		1/2	
3/4	75,435	3/4	60,554	3/4	46,063	3/4	31,394	3/4	16,327	3/4	1,502	3/4		3/4		3/4		3/4	
5	75,121	5	60,252	5	45,762	5	31,080	5	16,013	5	1,267	5		5		5		5	
1/4	74,807	1/4	59,950	1/4	45,461	1/4	30,766	1/4	15,699	1/4	1,032	1/4		1/4		1/4		1/4	
1/2	74,493	1/2	59,648	1/2	45,160	1/2	30,452	1/2	15,386	1/2		1/2		1/2		1/2		1/2	
3/4	74,179	3/4	59,346	3/4	44,859	3/4	30,138	3/4	15,072	3/4		3/4		3/4		3/4		3/4	
6	73,866	6	59,044	6	44,557	6	29,824	6	14,758	6		6		6		6		6	
1/4	73,552	1/4	58,741	1/4	44,256	1/4	29,510	1/4	14,444	1/4		1/4		1/4		1/4		1/4	
1/2	73,238	1/2	58,439	1/2	43,955	1/2	29,197	1/2	14,130	1/2		1/2		1/2		1/2		1/2	
3/4	72,924	3/4	58,137	3/4	43,654	3/4	28,883	3/4	13,816	3/4		3/4		3/4		3/4		3/4	
7	72,610	7	57,835	7	43,352	7	28,569	7	13,502	7		7		7		7		7	
1/4	72,296	1/4	57,533	1/4	43,051	1/4	28,256	1/4	13,188	1/4		1/4		1/4		1/4		1/4	
1/2	71,982	1/2	57,231	1/2	42,750	1/2	27,942	1/2	12,874	1/2		1/2		1/2		1/2		1/2	
3/4	71,668	3/4	56,928	3/4	42,449	3/4	27,628	3/4	12,560	3/4		3/4		3/4		3/4		3/4	
8	71,354	8	56,626	8	42,147	8	27,314	8	12,246	8		8		8		8		8	
1/4	71,040	1/4	56,324	1/4	41,846	1/4	27,001	1/4	11,932	1/4		1/4		1/4		1/4		1/4	
1/2	70,726	1/2	56,022	1/2	41,545	1/2	26,687	1/2	11,618	1/2		1/2		1/2		1/2		1/2	
3/4	70,412	3/4	55,720	3/4	41,244	3/4	26,373	3/4	11,304	3/4		3/4		3/4		3/4		3/4	
9	70,098	9	55,418	9	40,942	9	26,059	9	10,991	9		9		9		9		9	
1/4	69,784	1/4	55,115	1/4	40,641	1/4	25,745	1/4	10,677	1/4		1/4		1/4		1/4		1/4	
1/2	69,470	1/2	54,813	1/2	40,340	1/2	25,431	1/2	10,363	1/2		1/2		1/2		1/2		1/2	
3/4	69,156	3/4	54,511	3/4	40,039	3/4	25,117	3/4	10,049	3/4		3/4		3/4		3/4		3/4	
10	68,843	10	54,209	10	39,738	10	24,803	10	9,735	10		10		10		10		10	
1/4	68,529	1/4	53,907	1/4	39,436	1/4	24,490	1/4	9,421	1/4		1/4		1/4		1/4		1/4	
1/2	68,215	1/2	53,605	1/2	39,135	1/2	24,176	1/2	9,107	1/2		1/2		1/2		1/2		1/2	
3/4	67,901	3/4	53,302	3/4	38,833	3/4	23,862	3/4	8,793	3/4		3/4		3/4		3/4		3/4	
11	67,587	11	53,000	11	38,531	11	23,548	11	8,479	11		11		11		11		11	
1/4	67,273	1/4	52,698	1/4	38,230	1/4	23,234	1/4	8,165	1/4		1/4		1/4		1/4		1/4	
1/2	66,959	1/2	52,396	1/2	37,927	1/2	22,920	1/2	7,851	1/2		1/2		1/2		1/2		1/2	
3/4	66,645	3/4	52,094	3/4	37,625	3/4	22,606	3/4	7,537	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

2 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	202,401	0	187,386	0	172,349	0	157,282	0	142,215	0	127,148	0	112,081	0	97,008
1/4		1/4		1/4	202,089	1/4	187,073	1/4	172,035	1/4	156,968	1/4	141,901	1/4	126,834	1/4	111,767	1/4	96,694
1/2		1/2		1/2	201,776	1/2	186,760	1/2	171,722	1/2	156,655	1/2	141,588	1/2	126,521	1/2	111,454	1/2	96,379
3/4		3/4		3/4	201,463	3/4	186,447	3/4	171,408	3/4	156,341	3/4	141,274	3/4	126,207	3/4	111,140	3/4	96,065
1		1		1	201,150	1	186,134	1	171,094	1	156,027	1	140,960	1	125,893	1	110,826	1	95,751
1/4		1/4		1/4	200,837	1/4	185,821	1/4	170,780	1/4	155,713	1/4	140,646	1/4	125,579	1/4	110,512	1/4	95,437
1/2		1/2		1/2	200,524	1/2	185,509	1/2	170,466	1/2	155,399	1/2	140,332	1/2	125,265	1/2	110,198	1/2	95,123
3/4		3/4	214,138	3/4	200,212	3/4	185,196	3/4	170,152	3/4	155,085	3/4	140,018	3/4	124,951	3/4	109,884	3/4	94,809
2		2	213,959	2	199,899	2	184,883	2	169,838	2	154,771	2	139,704	2	124,637	2	109,570	2	94,495
1/4		1/4	213,780	1/4	199,586	1/4	184,570	1/4	169,524	1/4	154,457	1/4	139,390	1/4	124,323	1/4	109,256	1/4	94,181
1/2		1/2	213,601	1/2	199,273	1/2	184,257	1/2	169,210	1/2	154,143	1/2	139,076	1/2	124,009	1/2	108,942	1/2	93,867
3/4		3/4	213,422	3/4	198,960	3/4	183,944	3/4	168,897	3/4	153,830	3/4	138,763	3/4	123,696	3/4	108,628	3/4	93,553
3		3	213,190	3	198,647	3	183,632	3	168,583	3	153,516	3	138,449	3	123,382	3	108,313	3	93,239
1/4		1/4	212,959	1/4	198,335	1/4	183,319	1/4	168,269	1/4	153,202	1/4	138,135	1/4	123,068	1/4	107,999	1/4	92,925
1/2		1/2	212,728	1/2	198,022	1/2	183,006	1/2	167,955	1/2	152,888	1/2	137,821	1/2	122,754	1/2	107,685	1/2	92,611
3/4		3/4	212,496	3/4	197,709	3/4	182,693	3/4	167,641	3/4	152,574	3/4	137,507	3/4	122,440	3/4	107,371	3/4	92,297
4		4	212,216	4	197,396	4	182,380	4	167,327	4	152,260	4	137,193	4	122,126	4	107,057	4	91,983
1/4		1/4	211,936	1/4	197,083	1/4	182,067	1/4	167,013	1/4	151,946	1/4	136,879	1/4	121,812	1/4	106,743	1/4	91,669
1/2		1/2	211,657	1/2	196,770	1/2	181,755	1/2	166,699	1/2	151,632	1/2	136,565	1/2	121,498	1/2	106,429	1/2	91,355
3/4		3/4	211,377	3/4	196,458	3/4	181,442	3/4	166,385	3/4	151,318	3/4	136,251	3/4	121,184	3/4	106,115	3/4	91,041
5		5	211,071	5	196,145	5	181,129	5	166,071	5	151,004	5	135,937	5	120,870	5	105,801	5	90,726
1/4		1/4	210,765	1/4	195,832	1/4	180,816	1/4	165,758	1/4	150,691	1/4	135,624	1/4	120,557	1/4	105,487	1/4	90,412
1/2		1/2	210,460	1/2	195,519	1/2	180,503	1/2	165,444	1/2	150,377	1/2	135,310	1/2	120,243	1/2	105,173	1/2	90,098
3/4		3/4	210,154	3/4	195,206	3/4	180,190	3/4	165,130	3/4	150,063	3/4	134,996	3/4	119,929	3/4	104,859	3/4	89,784
6		6	209,844	6	194,893	6	179,878	6	164,816	6	149,749	6	134,682	6	119,615	6	104,545	6	89,470
1/4		1/4	209,535	1/4	194,581	1/4	179,565	1/4	164,502	1/4	149,435	1/4	134,368	1/4	119,301	1/4	104,231	1/4	89,156
1/2		1/2	209,226	1/2	194,268	1/2	179,252	1/2	164,188	1/2	149,121	1/2	134,054	1/2	118,987	1/2	103,917	1/2	88,842
3/4		3/4	208,916	3/4	193,955	3/4	178,939	3/4	163,874	3/4	148,807	3/4	133,740	3/4	118,673	3/4	103,603	3/4	88,528
7		7	208,607	7	193,642	7	178,626	7	163,560	7	148,493	7	133,426	7	118,359	7	103,289	7	88,214
1/4		1/4	208,297	1/4	193,329	1/4	178,312	1/4	163,246	1/4	148,179	1/4	133,112	1/4	118,045	1/4	102,975	1/4	87,900
1/2		1/2	207,987	1/2	193,016	1/2	177,999	1/2	162,933	1/2	147,865	1/2	132,798	1/2	117,731	1/2	102,661	1/2	87,586
3/4		3/4	207,677	3/4	192,704	3/4	177,686	3/4	162,619	3/4	147,552	3/4	132,485	3/4	117,418	3/4	102,346	3/4	87,272
8		8	207,367	8	192,391	8	177,372	8	162,305	8	147,238	8	132,171	8	117,104	8	102,032	8	86,958
1/4		1/4	207,057	1/4	192,078	1/4	177,058	1/4	161,991	1/4	146,924	1/4	131,857	1/4	116,790	1/4	101,718	1/4	86,644
1/2		1/2	206,747	1/2	191,765	1/2	176,744	1/2	161,677	1/2	146,610	1/2	131,543	1/2	116,476	1/2	101,404	1/2	86,330
3/4		3/4	206,438	3/4	191,452	3/4	176,430	3/4	161,363	3/4	146,296	3/4	131,229	3/4	116,162	3/4	101,090	3/4	86,016
9		9	206,128	9	191,139	9	176,116	9	161,049	9	145,982	9	130,915	9	115,848	9	100,776	9	85,702
1/4		1/4	205,818	1/4	190,827	1/4	175,802	1/4	160,735	1/4	145,668	1/4	130,601	1/4	115,534	1/4	100,462	1/4	85,388
1/2		1/2	205,508	1/2	190,514	1/2	175,488	1/2	160,421	1/2	145,354	1/2	130,287	1/2	115,220	1/2	100,148	1/2	85,074
3/4		3/4	205,198	3/4	190,201	3/4	175,174	3/4	160,107	3/4	145,040	3/4	129,973	3/4	114,906	3/4	99,834	3/4	84,759
10		10	204,889	10	189,888	10	174,861	10	159,794	10	144,727	10	129,660	10	114,593	10	99,520	10	84,445
1/4		1/4	204,579	1/4	189,575	1/4	174,547	1/4	159,480	1/4	144,413	1/4	129,346	1/4	114,279	1/4	99,206	1/4	84,131
1/2		1/2	204,269	1/2	189,262	1/2	174,233	1/2	159,166	1/2	144,099	1/2	129,032	1/2	113,965	1/2	98,892	1/2	83,817
3/4		3/4	203,959	3/4	188,950	3/4	173,919	3/4	158,852	3/4	143,785	3/4	128,718	3/4	113,651	3/4	98,578	3/4	83,503
11		11	203,648	11	188,637	11	173,605	11	158,538	11	143,471	11	128,404	11	113,337	11	98,264	11	83,189
1/4		1/4	203,337	1/4	188,324	1/4	173,291	1/4	158,224	1/4	143,157	1/4	128,090	1/4	113,023	1/4	97,950	1/4	82,875
1/2		1/2	203,026	1/2	188,011	1/2	172,977	1/2	157,910	1/2	142,843	1/2	127,776	1/2	112,709	1/2	97,636	1/2	82,561
3/4		3/4	202,714	3/4	187,698	3/4	172,663	3/4	157,596	3/4	142,529	3/4	127,462	3/4	112,395	3/4	97,322	3/4	82,247

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 "HSM 3000"

2 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	81,933	0	66,858	0	51,784	0	36,745	0	21,672	0	6,598	0		0		0		0	
1/4	81,619	1/4	66,544	1/4	51,471	1/4	36,431	1/4	21,358	1/4	6,284	1/4		1/4		1/4		1/4	
1/2	81,305	1/2	66,230	1/2	51,157	1/2	36,117	1/2	21,044	1/2	5,970	1/2		1/2		1/2		1/2	
3/4	80,991	3/4	65,916	3/4	50,843	3/4	35,803	3/4	20,730	3/4	5,656	3/4		3/4		3/4		3/4	
1	80,677	1	65,602	1	50,530	1	35,488	1	20,416	1	5,342	1		1		1		1	
1/4	80,363	1/4	65,288	1/4	50,216	1/4	35,174	1/4	20,102	1/4	5,028	1/4		1/4		1/4		1/4	
1/2	80,049	1/2	64,974	1/2	49,903	1/2	34,860	1/2	19,788	1/2	4,714	1/2		1/2		1/2		1/2	
3/4	79,735	3/4	64,660	3/4	49,590	3/4	34,546	3/4	19,474	3/4	4,401	3/4		3/4		3/4		3/4	
2	79,421	2	64,346	2	49,276	2	34,232	2	19,160	2	4,088	2		2		2		2	
1/4	79,107	1/4	64,032	1/4	48,963	1/4	33,918	1/4	18,846	1/4	3,775	1/4		1/4		1/4		1/4	
1/2	78,792	1/2	63,718	1/2	48,650	1/2	33,604	1/2	18,532	1/2	3,462	1/2		1/2		1/2		1/2	
3/4	78,478	3/4	63,404	3/4	48,337	3/4	33,290	3/4	18,218	3/4	3,148	3/4		3/4		3/4		3/4	
3	78,164	3	63,090	3	48,024	3	32,976	3	17,904	3	2,855	3		3		3		3	
1/4	77,850	1/4	62,776	1/4	47,711	1/4	32,662	1/4	17,590	1/4	2,561	1/4		1/4		1/4		1/4	
1/2	77,536	1/2	62,462	1/2	47,397	1/2	32,348	1/2	17,276	1/2	2,268	1/2		1/2		1/2		1/2	
3/4	77,222	3/4	62,148	3/4	47,084	3/4	32,034	3/4	16,962	3/4	1,974	3/4		3/4		3/4		3/4	
4	76,908	4	61,834	4	46,771	4	31,720	4	16,648	4	1,738	4		4		4		4	
1/4	76,594	1/4	61,520	1/4	46,458	1/4	31,406	1/4	16,334	1/4	1,503	1/4		1/4		1/4		1/4	
1/2	76,280	1/2	61,205	1/2	46,145	1/2	31,092	1/2	16,020	1/2	1,267	1/2		1/2		1/2		1/2	
3/4	75,966	3/4	60,891	3/4	45,832	3/4	30,778	3/4	15,705	3/4	1,032	3/4		3/4		3/4		3/4	
5	75,652	5	60,577	5	45,519	5	30,464	5	15,391	5		5		5		5		5	
1/4	75,338	1/4	60,263	1/4	45,206	1/4	30,150	1/4	15,077	1/4		1/4		1/4		1/4		1/4	
1/2	75,024	1/2	59,949	1/2	44,892	1/2	29,836	1/2	14,763	1/2		1/2		1/2		1/2		1/2	
3/4	74,710	3/4	59,635	3/4	44,579	3/4	29,522	3/4	14,449	3/4		3/4		3/4		3/4		3/4	
6	74,396	6	59,321	6	44,266	6	29,208	6	14,135	6		6		6		6		6	
1/4	74,082	1/4	59,007	1/4	43,953	1/4	28,894	1/4	13,821	1/4		1/4		1/4		1/4		1/4	
1/2	73,768	1/2	58,693	1/2	43,640	1/2	28,580	1/2	13,507	1/2		1/2		1/2		1/2		1/2	
3/4	73,454	3/4	58,379	3/4	43,327	3/4	28,266	3/4	13,193	3/4		3/4		3/4		3/4		3/4	
7	73,139	7	58,065	7	43,014	7	27,953	7	12,879	7		7		7		7		7	
1/4	72,825	1/4	57,751	1/4	42,701	1/4	27,639	1/4	12,565	1/4		1/4		1/4		1/4		1/4	
1/2	72,511	1/2	57,437	1/2	42,387	1/2	27,325	1/2	12,251	1/2		1/2		1/2		1/2		1/2	
3/4	72,197	3/4	57,123	3/4	42,074	3/4	27,011	3/4	11,937	3/4		3/4		3/4		3/4		3/4	
8	71,883	8	56,809	8	41,761	8	26,697	8	11,623	8		8		8		8		8	
1/4	71,569	1/4	56,495	1/4	41,448	1/4	26,383	1/4	11,309	1/4		1/4		1/4		1/4		1/4	
1/2	71,255	1/2	56,181	1/2	41,135	1/2	26,069	1/2	10,995	1/2		1/2		1/2		1/2		1/2	
3/4	70,941	3/4	55,867	3/4	40,822	3/4	25,755	3/4	10,681	3/4		3/4		3/4		3/4		3/4	
9	70,627	9	55,553	9	40,509	9	25,441	9	10,367	9		9		9		9		9	
1/4	70,313	1/4	55,238	1/4	40,196	1/4	25,127	1/4	10,053	1/4		1/4		1/4		1/4		1/4	
1/2	69,999	1/2	54,924	1/2	39,882	1/2	24,813	1/2	9,738	1/2		1/2		1/2		1/2		1/2	
3/4	69,685	3/4	54,610	3/4	39,569	3/4	24,499	3/4	9,424	3/4		3/4		3/4		3/4		3/4	
10	69,371	10	54,296	10	39,256	10	24,185	10	9,110	10		10		10		10		10	
1/4	69,057	1/4	53,982	1/4	38,942	1/4	23,871	1/4	8,796	1/4		1/4		1/4		1/4		1/4	
1/2	68,743	1/2	53,668	1/2	38,629	1/2	23,557	1/2	8,482	1/2		1/2		1/2		1/2		1/2	
3/4	68,429	3/4	53,354	3/4	38,315	3/4	23,243	3/4	8,168	3/4		3/4		3/4		3/4		3/4	
11	68,115	11	53,040	11	38,001	11	22,929	11	7,854	11		11		11		11		11	
1/4	67,801	1/4	52,726	1/4	37,687	1/4	22,615	1/4	7,540	1/4		1/4		1/4		1/4		1/4	
1/2	67,487	1/2	52,412	1/2	37,373	1/2	22,301	1/2	7,226	1/2		1/2		1/2		1/2		1/2	
3/4	67,172	3/4	52,098	3/4	37,059	3/4	21,987	3/4	6,912	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

3 PORT 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	183,630	0	173,299	0	162,953	0	152,586	0	140,329	0	125,365	0	110,402	0	95,424
1/4		1/4		1/4	183,414	1/4	173,084	1/4	162,737	1/4	152,370	1/4	140,017	1/4	125,054	1/4	110,090	1/4	95,112
1/2		1/2		1/2	183,199	1/2	172,868	1/2	162,521	1/2	152,154	1/2	139,706	1/2	124,742	1/2	109,778	1/2	94,800
3/4		3/4		3/4	182,984	3/4	172,653	3/4	162,305	3/4	151,938	3/4	139,394	3/4	124,430	3/4	109,466	3/4	94,488
1		1		1	182,769	1	172,438	1	162,089	1	151,722	1	139,082	1	124,118	1	109,155	1	94,176
1/4		1/4		1/4	182,553	1/4	172,223	1/4	161,873	1/4	151,506	1/4	138,771	1/4	123,807	1/4	108,843	1/4	93,864
1/2		1/2		1/2	191,977	1/2	182,338	1/2	172,007	1/2	161,657	1/2	151,290	1/2	138,459	1/2	123,495	1/2	93,553
3/4		3/4		3/4	191,853	3/4	182,123	3/4	171,792	3/4	161,441	3/4	151,074	3/4	138,147	3/4	123,183	3/4	93,241
2		2		2	191,730	2	181,908	2	171,577	2	161,225	2	150,858	2	137,835	2	122,872	2	92,929
1/4		1/4		1/4	191,606	1/4	181,692	1/4	171,362	1/4	161,009	1/4	150,642	1/4	137,524	1/4	122,560	1/4	92,617
1/2		1/2		1/2	191,483	1/2	181,477	1/2	171,147	1/2	160,793	1/2	150,426	1/2	137,212	1/2	122,248	1/2	92,305
3/4		3/4		3/4	191,323	3/4	181,262	3/4	170,931	3/4	160,577	3/4	150,210	3/4	136,900	3/4	121,936	3/4	91,993
3		3		3	191,163	3	181,047	3	170,716	3	160,361	3	149,994	3	136,588	3	121,625	3	91,681
1/4		1/4		1/4	191,004	1/4	180,832	1/4	170,501	1/4	160,145	1/4	149,778	1/4	136,277	1/4	121,313	1/4	91,369
1/2		1/2		1/2	190,844	1/2	180,616	1/2	170,286	1/2	159,929	1/2	149,562	1/2	135,965	1/2	121,001	1/2	91,057
3/4		3/4		3/4	190,651	3/4	180,401	3/4	170,070	3/4	159,713	3/4	149,342	3/4	135,653	3/4	120,689	3/4	90,745
4		4		4	190,458	4	180,186	4	169,855	4	159,497	4	149,123	4	135,341	4	120,378	4	90,433
1/4		1/4		1/4	190,265	1/4	179,971	1/4	169,640	1/4	159,281	1/4	148,903	1/4	135,030	1/4	120,066	1/4	90,122
1/2		1/2		1/2	190,072	1/2	179,755	1/2	169,425	1/2	159,065	1/2	148,684	1/2	134,718	1/2	119,754	1/2	89,810
3/4		3/4		3/4	189,860	3/4	179,540	3/4	169,210	3/4	158,849	3/4	148,453	3/4	134,406	3/4	119,442	3/4	89,498
5		5		5	189,648	5	179,325	5	168,994	5	158,633	5	148,222	5	134,094	5	119,131	5	89,186
1/4		1/4		1/4	189,437	1/4	179,110	1/4	168,779	1/4	158,417	1/4	147,991	1/4	133,783	1/4	118,819	1/4	88,874
1/2		1/2		1/2	189,225	1/2	178,895	1/2	168,564	1/2	158,201	1/2	147,760	1/2	133,471	1/2	118,507	1/2	88,562
3/4		3/4		3/4	189,010	3/4	178,679	3/4	168,349	3/4	157,985	3/4	147,512	3/4	133,159	3/4	118,195	3/4	88,250
6		6		6	188,795	6	178,464	6	168,133	6	157,769	6	147,265	6	132,847	6	117,884	6	87,938
1/4		1/4		1/4	188,580	1/4	178,249	1/4	167,918	1/4	157,553	1/4	147,018	1/4	132,536	1/4	117,572	1/4	87,626
1/2		1/2		1/2	188,365	1/2	178,034	1/2	167,703	1/2	157,337	1/2	146,771	1/2	132,224	1/2	117,260	1/2	87,314
3/4		3/4		3/4	188,150	3/4	177,818	3/4	167,487	3/4	157,121	3/4	146,508	3/4	131,912	3/4	116,948	3/4	87,002
7		7		7	187,935	7	177,603	7	167,272	7	156,905	7	146,245	7	131,600	7	116,637	7	86,689
1/4		1/4		1/4	187,719	1/4	177,388	1/4	167,056	1/4	156,689	1/4	145,982	1/4	131,289	1/4	116,325	1/4	86,377
1/2		1/2		1/2	187,504	1/2	177,173	1/2	166,841	1/2	156,473	1/2	145,719	1/2	130,977	1/2	116,013	1/2	86,065
3/4		3/4		3/4	187,289	3/4	176,958	3/4	166,625	3/4	156,257	3/4	145,441	3/4	130,665	3/4	115,701	3/4	85,753
8		8		8	187,074	8	176,742	8	166,409	8	156,041	8	145,162	8	130,353	8	115,390	8	85,440
1/4		1/4		1/4	186,858	1/4	176,527	1/4	166,193	1/4	155,825	1/4	144,884	1/4	130,042	1/4	115,078	1/4	85,128
1/2		1/2		1/2	186,643	1/2	176,312	1/2	165,977	1/2	155,609	1/2	144,605	1/2	129,730	1/2	114,766	1/2	84,816
3/4		3/4		3/4	186,428	3/4	176,097	3/4	165,761	3/4	155,393	3/4	144,310	3/4	129,418	3/4	114,454	3/4	84,504
9		9		9	186,212	9	175,881	9	165,545	9	155,177	9	144,016	9	129,106	9	114,143	9	84,191
1/4		1/4		1/4	185,997	1/4	175,666	1/4	165,329	1/4	154,961	1/4	143,721	1/4	128,795	1/4	113,831	1/4	83,879
1/2		1/2		1/2	185,782	1/2	175,451	1/2	165,113	1/2	154,745	1/2	143,426	1/2	128,483	1/2	113,519	1/2	83,567
3/4		3/4		3/4	185,567	3/4	175,236	3/4	164,897	3/4	154,529	3/4	143,119	3/4	128,171	3/4	113,207	3/4	83,255
10		10		10	185,351	10	175,021	10	164,681	10	154,313	10	142,812	10	127,859	10	112,896	10	82,943
1/4		1/4		1/4	185,136	1/4	174,805	1/4	164,465	1/4	154,097	1/4	142,505	1/4	127,548	1/4	112,584	1/4	82,630
1/2		1/2		1/2	184,921	1/2	174,590	1/2	164,249	1/2	153,881	1/2	142,198	1/2	127,236	1/2	112,272	1/2	82,318
3/4		3/4		3/4	184,706	3/4	174,375	3/4	164,033	3/4	153,666	3/4	141,887	3/4	126,924	3/4	111,960	3/4	82,006
11		11		11	184,490	11	174,160	11	163,817	11	153,450	11	141,575	11	126,612	11	111,649	11	81,694
1/4		1/4		1/4	184,275	1/4	173,944	1/4	163,601	1/4	153,234	1/4	141,264	1/4	126,301	1/4	111,337	1/4	81,381
1/2		1/2		1/2	184,060	1/2	173,729	1/2	163,385	1/2	153,018	1/2	140,952	1/2	125,989	1/2	111,025	1/2	81,069
3/4		3/4		3/4	183,845	3/4	173,514	3/4	163,169	3/4	152,802	3/4	140,641	3/4	125,677	3/4	110,713	3/4	80,757

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'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3000"

3 PORT 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	80,445	0	65,537	0	50,818	0	36,231	0	21,253	0	6,258	0		0		0		0	
1/4	80,133	1/4	65,226	1/4	50,516	1/4	35,922	1/4	20,941	1/4	5,945	1/4		1/4		1/4		1/4	
1/2	79,820	1/2	64,916	1/2	50,213	1/2	35,614	1/2	20,629	1/2	5,633	1/2		1/2		1/2		1/2	
3/4	79,508	3/4	64,606	3/4	49,911	3/4	35,303	3/4	20,316	3/4	5,320	3/4		3/4		3/4		3/4	
1	79,196	1	64,296	1	49,608	1	34,991	1	20,004	1	5,008	1		1		1		1	
1/4	78,884	1/4	63,985	1/4	49,306	1/4	34,679	1/4	19,692	1/4	4,695	1/4		1/4		1/4		1/4	
1/2	78,571	1/2	63,675	1/2	49,004	1/2	34,367	1/2	19,380	1/2	4,383	1/2		1/2		1/2		1/2	
3/4	78,260	3/4	63,364	3/4	48,701	3/4	34,055	3/4	19,067	3/4	4,071	3/4		3/4		3/4		3/4	
2	77,949	2	63,053	2	48,399	2	33,743	2	18,755	2	3,759	2		2		2		2	
1/4	77,638	1/4	62,742	1/4	48,096	1/4	33,430	1/4	18,443	1/4	3,448	1/4		1/4		1/4		1/4	
1/2	77,326	1/2	62,431	1/2	47,794	1/2	33,118	1/2	18,130	1/2	3,136	1/2		1/2		1/2		1/2	
3/4	77,016	3/4	62,119	3/4	47,492	3/4	32,806	3/4	17,818	3/4	2,843	3/4		3/4		3/4		3/4	
3	76,706	3	61,807	3	47,190	3	32,494	3	17,506	3	2,551	3		3		3		3	
1/4	76,396	1/4	61,495	1/4	46,888	1/4	32,181	1/4	17,193	1/4	2,258	1/4		1/4		1/4		1/4	
1/2	76,085	1/2	61,183	1/2	46,586	1/2	31,869	1/2	16,881	1/2	1,966	1/2		1/2		1/2		1/2	
3/4	75,775	3/4	60,871	3/4	46,284	3/4	31,557	3/4	16,569	3/4	1,731	3/4		3/4		3/4		3/4	
4	75,465	4	60,559	4	45,982	4	31,244	4	16,257	4	1,497	4		4		4		4	
1/4	75,155	1/4	60,247	1/4	45,681	1/4	30,932	1/4	15,944	1/4	1,262	1/4		1/4		1/4		1/4	
1/2	74,844	1/2	59,935	1/2	45,379	1/2	30,620	1/2	15,632	1/2	1,028	1/2		1/2		1/2		1/2	
3/4	74,534	3/4	59,627	3/4	45,076	3/4	30,308	3/4	15,320	3/4		3/4		3/4		3/4		3/4	
5	74,224	5	59,318	5	44,773	5	29,995	5	15,007	5		5		5		5		5	
1/4	73,914	1/4	59,009	1/4	44,469	1/4	29,683	1/4	14,695	1/4		1/4		1/4		1/4		1/4	
1/2	73,603	1/2	58,700	1/2	44,166	1/2	29,371	1/2	14,383	1/2		1/2		1/2		1/2		1/2	
3/4	73,293	3/4	58,395	3/4	43,861	3/4	29,059	3/4	14,071	3/4		3/4		3/4		3/4		3/4	
6	72,983	6	58,089	6	43,556	6	28,747	6	13,758	6		6		6		6		6	
1/4	72,673	1/4	57,783	1/4	43,251	1/4	28,435	1/4	13,446	1/4		1/4		1/4		1/4		1/4	
1/2	72,362	1/2	57,478	1/2	42,946	1/2	28,123	1/2	13,134	1/2		1/2		1/2		1/2		1/2	
3/4	72,052	3/4	57,174	3/4	42,641	3/4	27,811	3/4	12,821	3/4		3/4		3/4		3/4		3/4	
7	71,742	7	56,870	7	42,336	7	27,498	7	12,509	7		7		7		7		7	
1/4	71,432	1/4	56,566	1/4	42,031	1/4	27,186	1/4	12,197	1/4		1/4		1/4		1/4		1/4	
1/2	71,121	1/2	56,262	1/2	41,726	1/2	26,874	1/2	11,885	1/2		1/2		1/2		1/2		1/2	
3/4	70,811	3/4	55,959	3/4	41,421	3/4	26,562	3/4	11,572	3/4		3/4		3/4		3/4		3/4	
8	70,501	8	55,657	8	41,116	8	26,250	8	11,260	8		8		8		8		8	
1/4	70,190	1/4	55,354	1/4	40,811	1/4	25,938	1/4	10,947	1/4		1/4		1/4		1/4		1/4	
1/2	69,880	1/2	55,052	1/2	40,506	1/2	25,625	1/2	10,634	1/2		1/2		1/2		1/2		1/2	
3/4	69,570	3/4	54,750	3/4	40,201	3/4	25,313	3/4	10,322	3/4		3/4		3/4		3/4		3/4	
9	69,260	9	54,447	9	39,896	9	25,001	9	10,009	9		9		9		9		9	
1/4	68,949	1/4	54,145	1/4	39,592	1/4	24,688	1/4	9,696	1/4		1/4		1/4		1/4		1/4	
1/2	68,639	1/2	53,842	1/2	39,287	1/2	24,376	1/2	9,383	1/2		1/2		1/2		1/2		1/2	
3/4	68,329	3/4	53,540	3/4	38,982	3/4	24,064	3/4	9,071	3/4		3/4		3/4		3/4		3/4	
10	68,019	10	53,237	10	38,677	10	23,752	10	8,758	10		10		10		10		10	
1/4	67,708	1/4	52,935	1/4	38,372	1/4	23,439	1/4	8,445	1/4		1/4		1/4		1/4		1/4	
1/2	67,398	1/2	52,633	1/2	38,067	1/2	23,127	1/2	8,133	1/2		1/2		1/2		1/2		1/2	
3/4	67,088	3/4	52,330	3/4	37,762	3/4	22,815	3/4	7,820	3/4		3/4		3/4		3/4		3/4	
11	66,778	11	52,028	11	37,457	11	22,502	11	7,508	11		11		11		11		11	
1/4	66,467	1/4	51,725	1/4	37,152	1/4	22,190	1/4	7,195	1/4		1/4		1/4		1/4		1/4	
1/2	66,157	1/2	51,423	1/2	36,847	1/2	21,878	1/2	6,883	1/2		1/2		1/2		1/2		1/2	
3/4	65,847	3/4	51,120	3/4	36,539	3/4	21,566	3/4	6,570	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

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	184,655	0	174,337	0	164,004	0	153,650	0	141,490	0	126,511	0	111,532	0	96,538
1/4		1/4		1/4	184,441	1/4	174,122	1/4	163,789	1/4	153,434	1/4	141,178	1/4	126,199	1/4	111,220	1/4	96,226
1/2		1/2		1/2	184,226	1/2	173,907	1/2	163,573	1/2	153,218	1/2	140,866	1/2	125,887	1/2	110,908	1/2	95,913
3/4		3/4		3/4	184,011	3/4	173,692	3/4	163,357	3/4	153,002	3/4	140,554	3/4	125,575	3/4	110,596	3/4	95,601
1		1		1	183,796	1	173,477	1	163,141	1	152,787	1	140,242	1	125,263	1	110,284	1	95,288
1/4		1/4		1/4	183,581	1/4	173,262	1/4	162,926	1/4	152,571	1/4	139,929	1/4	124,951	1/4	109,972	1/4	94,976
1/2		1/2		1/2	183,366	1/2	173,047	1/2	162,710	1/2	152,355	1/2	139,617	1/2	124,639	1/2	109,660	1/2	94,663
3/4		3/4	192,778	3/4	183,151	3/4	172,832	3/4	162,494	3/4	152,139	3/4	139,305	3/4	124,327	3/4	109,348	3/4	94,351
2		2	192,655	2	182,936	2	172,617	2	162,279	2	151,924	2	138,993	2	124,015	2	109,036	2	94,039
1/4		1/4	192,531	1/4	182,721	1/4	172,402	1/4	162,063	1/4	151,708	1/4	138,681	1/4	123,703	1/4	108,723	1/4	93,726
1/2		1/2	192,408	1/2	182,506	1/2	172,187	1/2	161,847	1/2	151,492	1/2	138,369	1/2	123,391	1/2	108,411	1/2	93,414
3/4		3/4	192,284	3/4	182,291	3/4	171,973	3/4	161,631	3/4	151,277	3/4	138,057	3/4	123,078	3/4	108,099	3/4	93,101
3		3	192,125	3	182,076	3	171,758	3	161,416	3	151,061	3	137,745	3	122,766	3	107,787	3	92,789
1/4		1/4	191,965	1/4	181,861	1/4	171,543	1/4	161,200	1/4	150,845	1/4	137,433	1/4	122,454	1/4	107,474	1/4	92,476
1/2		1/2	191,806	1/2	181,646	1/2	171,328	1/2	160,984	1/2	150,629	1/2	137,121	1/2	122,142	1/2	107,162	1/2	92,164
3/4		3/4	191,646	3/4	181,431	3/4	171,113	3/4	160,768	3/4	150,414	3/4	136,809	3/4	121,830	3/4	106,850	3/4	91,851
4		4	191,453	4	181,216	4	170,898	4	160,553	4	150,194	4	136,497	4	121,518	4	106,537	4	91,539
1/4		1/4	191,261	1/4	181,001	1/4	170,683	1/4	160,337	1/4	149,975	1/4	136,185	1/4	121,206	1/4	106,225	1/4	91,226
1/2		1/2	191,068	1/2	180,786	1/2	170,468	1/2	160,121	1/2	149,756	1/2	135,873	1/2	120,894	1/2	105,912	1/2	90,914
3/4		3/4	190,875	3/4	180,571	3/4	170,253	3/4	159,906	3/4	149,537	3/4	135,561	3/4	120,582	3/4	105,600	3/4	90,601
5		5	190,664	5	180,356	5	170,038	5	159,690	5	149,306	5	135,249	5	120,270	5	105,288	5	90,289
1/4		1/4	190,452	1/4	180,141	1/4	169,823	1/4	159,474	1/4	149,075	1/4	134,937	1/4	119,958	1/4	104,975	1/4	89,976
1/2		1/2	190,241	1/2	179,926	1/2	169,608	1/2	159,258	1/2	148,844	1/2	134,625	1/2	119,646	1/2	104,663	1/2	89,664
3/4		3/4	190,030	3/4	179,711	3/4	169,393	3/4	159,043	3/4	148,613	3/4	134,312	3/4	119,334	3/4	104,350	3/4	89,351
6		6	189,815	6	179,496	6	169,178	6	158,827	6	148,366	6	134,000	6	119,022	6	104,038	6	89,039
1/4		1/4	189,600	1/4	179,281	1/4	168,963	1/4	158,611	1/4	148,119	1/4	133,688	1/4	118,710	1/4	103,725	1/4	88,726
1/2		1/2	189,385	1/2	179,066	1/2	168,748	1/2	158,395	1/2	147,872	1/2	133,376	1/2	118,398	1/2	103,413	1/2	88,414
3/4		3/4	189,171	3/4	178,851	3/4	168,533	3/4	158,180	3/4	147,625	3/4	133,064	3/4	118,086	3/4	103,100	3/4	88,102
7		7	188,956	7	178,636	7	168,318	7	157,964	7	147,362	7	132,752	7	117,774	7	102,788	7	87,789
1/4		1/4	188,741	1/4	178,421	1/4	168,102	1/4	157,748	1/4	147,099	1/4	132,440	1/4	117,461	1/4	102,475	1/4	87,477
1/2		1/2	188,526	1/2	178,207	1/2	167,887	1/2	157,533	1/2	146,836	1/2	132,128	1/2	117,149	1/2	102,163	1/2	87,164
3/4		3/4	188,311	3/4	177,992	3/4	167,672	3/4	157,317	3/4	146,573	3/4	131,816	3/4	116,837	3/4	101,850	3/4	86,852
8		8	188,095	8	177,777	8	167,456	8	157,101	8	146,294	8	131,504	8	116,525	8	101,538	8	86,539
1/4		1/4	187,880	1/4	177,562	1/4	167,240	1/4	156,885	1/4	146,016	1/4	131,192	1/4	116,213	1/4	101,225	1/4	86,227
1/2		1/2	187,665	1/2	177,347	1/2	167,025	1/2	156,670	1/2	145,737	1/2	130,880	1/2	115,901	1/2	100,913	1/2	85,914
3/4		3/4	187,450	3/4	177,132	3/4	166,809	3/4	156,454	3/4	145,458	3/4	130,568	3/4	115,589	3/4	100,600	3/4	85,602
9		9	187,235	9	176,917	9	166,593	9	156,238	9	145,163	9	130,256	9	115,277	9	100,288	9	85,289
1/4		1/4	187,020	1/4	176,702	1/4	166,377	1/4	156,023	1/4	144,868	1/4	129,944	1/4	114,965	1/4	99,975	1/4	84,977
1/2		1/2	186,805	1/2	176,487	1/2	166,162	1/2	155,807	1/2	144,573	1/2	129,632	1/2	114,653	1/2	99,663	1/2	84,664
3/4		3/4	186,590	3/4	176,272	3/4	165,946	3/4	155,591	3/4	144,278	3/4	129,320	3/4	114,341	3/4	99,351	3/4	84,352
10		10	186,375	10	176,057	10	165,730	10	155,375	10	143,971	10	129,008	10	114,029	10	99,038	10	84,039
1/4		1/4	186,160	1/4	175,842	1/4	165,514	1/4	155,160	1/4	143,663	1/4	128,695	1/4	113,717	1/4	98,726	1/4	83,727
1/2		1/2	185,945	1/2	175,627	1/2	165,299	1/2	154,944	1/2	143,356	1/2	128,383	1/2	113,405	1/2	98,413	1/2	83,414
3/4		3/4	185,730	3/4	175,412	3/4	165,083	3/4	154,728	3/4	143,049	3/4	128,071	3/4	113,093	3/4	98,101	3/4	83,102
11		11	185,515	11	175,197	11	164,867	11	154,512	11	142,737	11	127,759	11	112,781	11	97,788	11	82,790
1/4		1/4	185,300	1/4	174,982	1/4	164,652	1/4	154,297	1/4	142,425	1/4	127,447	1/4	112,469	1/4	97,476	1/4	82,477
1/2		1/2	185,085	1/2	174,767	1/2	164,436	1/2	154,081	1/2	142,113	1/2	127,135	1/2	112,157	1/2	97,163	1/2	82,165
3/4		3/4	184,870	3/4	174,552	3/4	164,220	3/4	153,865	3/4	141,802	3/4	126,823	3/4	111,844	3/4	96,851	3/4	81,852

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 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'-03" FORWARD OF AFT BULKHEAD.

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BARGE "HSM 3000"

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	81,540	0	66,541	0	51,542	0	36,559	0	21,563	0	6,565	0		0		0		0	
1/4	81,227	1/4	66,228	1/4	51,230	1/4	36,247	1/4	21,251	1/4	6,253	1/4		1/4		1/4		1/4	
1/2	80,915	1/2	65,916	1/2	50,917	1/2	35,935	1/2	20,938	1/2	5,940	1/2		1/2		1/2		1/2	
3/4	80,602	3/4	65,604	3/4	50,605	3/4	35,623	3/4	20,626	3/4	5,628	3/4		3/4		3/4		3/4	
1	80,290	1	65,291	1	50,292	1	35,311	1	20,314	1	5,316	1		1		1		1	
1/4	79,977	1/4	64,979	1/4	49,980	1/4	34,999	1/4	20,001	1/4	5,003	1/4		1/4		1/4		1/4	
1/2	79,665	1/2	64,666	1/2	49,667	1/2	34,687	1/2	19,689	1/2	4,691	1/2		1/2		1/2		1/2	
3/4	79,352	3/4	64,354	3/4	49,355	3/4	34,374	3/4	19,376	3/4	4,379	3/4		3/4		3/4		3/4	
2	79,040	2	64,041	2	49,043	2	34,062	2	19,064	2	4,068	2		2		2		2	
1/4	78,727	1/4	63,729	1/4	48,730	1/4	33,749	1/4	18,751	1/4	3,756	1/4		1/4		1/4		1/4	
1/2	78,415	1/2	63,416	1/2	48,418	1/2	33,437	1/2	18,439	1/2	3,445	1/2		1/2		1/2		1/2	
3/4	78,102	3/4	63,104	3/4	48,105	3/4	33,124	3/4	18,126	3/4	3,133	3/4		3/4		3/4		3/4	
3	77,790	3	62,791	3	47,793	3	32,812	3	17,814	3	2,841	3		3		3		3	
1/4	77,477	1/4	62,479	1/4	47,480	1/4	32,500	1/4	17,501	1/4	2,549	1/4		1/4		1/4		1/4	
1/2	77,165	1/2	62,166	1/2	47,168	1/2	32,187	1/2	17,189	1/2	2,257	1/2		1/2		1/2		1/2	
3/4	76,853	3/4	61,854	3/4	46,856	3/4	31,875	3/4	16,876	3/4	1,964	3/4		3/4		3/4		3/4	
4	76,540	4	61,541	4	46,544	4	31,562	4	16,564	4	1,730	4		4		4		4	
1/4	76,228	1/4	61,229	1/4	46,231	1/4	31,250	1/4	16,251	1/4	1,496	1/4		1/4		1/4		1/4	
1/2	75,915	1/2	60,916	1/2	45,919	1/2	30,937	1/2	15,939	1/2	1,262	1/2		1/2		1/2		1/2	
3/4	75,603	3/4	60,604	3/4	45,607	3/4	30,625	3/4	15,627	3/4	1,027	3/4		3/4		3/4		3/4	
5	75,290	5	60,292	5	45,295	5	30,312	5	15,314	5		5		5		5		5	
1/4	74,978	1/4	59,979	1/4	44,983	1/4	30,000	1/4	15,002	1/4		1/4		1/4		1/4		1/4	
1/2	74,665	1/2	59,667	1/2	44,671	1/2	29,687	1/2	14,689	1/2		1/2		1/2		1/2		1/2	
3/4	74,353	3/4	59,354	3/4	44,359	3/4	29,375	3/4	14,377	3/4		3/4		3/4		3/4		3/4	
6	74,040	6	59,042	6	44,047	6	29,062	6	14,064	6		6		6		6		6	
1/4	73,728	1/4	58,729	1/4	43,735	1/4	28,750	1/4	13,752	1/4		1/4		1/4		1/4		1/4	
1/2	73,415	1/2	58,417	1/2	43,423	1/2	28,438	1/2	13,439	1/2		1/2		1/2		1/2		1/2	
3/4	73,103	3/4	58,104	3/4	43,111	3/4	28,125	3/4	13,127	3/4		3/4		3/4		3/4		3/4	
7	72,790	7	57,792	7	42,799	7	27,813	7	12,814	7		7		7		7		7	
1/4	72,478	1/4	57,479	1/4	42,487	1/4	27,500	1/4	12,502	1/4		1/4		1/4		1/4		1/4	
1/2	72,165	1/2	57,167	1/2	42,175	1/2	27,188	1/2	12,189	1/2		1/2		1/2		1/2		1/2	
3/4	71,853	3/4	56,854	3/4	41,863	3/4	26,875	3/4	11,877	3/4		3/4		3/4		3/4		3/4	
8	71,541	8	56,542	8	41,551	8	26,563	8	11,565	8		8		8		8		8	
1/4	71,228	1/4	56,229	1/4	41,239	1/4	26,250	1/4	11,252	1/4		1/4		1/4		1/4		1/4	
1/2	70,916	1/2	55,917	1/2	40,927	1/2	25,938	1/2	10,940	1/2		1/2		1/2		1/2		1/2	
3/4	70,603	3/4	55,604	3/4	40,615	3/4	25,625	3/4	10,627	3/4		3/4		3/4		3/4		3/4	
9	70,291	9	55,292	9	40,303	9	25,313	9	10,315	9		9		9		9		9	
1/4	69,978	1/4	54,979	1/4	39,991	1/4	25,000	1/4	10,002	1/4		1/4		1/4		1/4		1/4	
1/2	69,666	1/2	54,667	1/2	39,679	1/2	24,688	1/2	9,690	1/2		1/2		1/2		1/2		1/2	
3/4	69,353	3/4	54,355	3/4	39,367	3/4	24,376	3/4	9,377	3/4		3/4		3/4		3/4		3/4	
10	69,041	10	54,042	10	39,055	10	24,063	10	9,065	10		10		10		10		10	
1/4	68,728	1/4	53,730	1/4	38,743	1/4	23,751	1/4	8,752	1/4		1/4		1/4		1/4		1/4	
1/2	68,416	1/2	53,417	1/2	38,431	1/2	23,438	1/2	8,440	1/2		1/2		1/2		1/2		1/2	
3/4	68,103	3/4	53,105	3/4	38,119	3/4	23,126	3/4	8,127	3/4		3/4		3/4		3/4		3/4	
11	67,791	11	52,792	11	37,807	11	22,813	11	7,815	11		11		11		11		11	
1/4	67,478	1/4	52,480	1/4	37,495	1/4	22,501	1/4	7,503	1/4		1/4		1/4		1/4		1/4	
1/2	67,166	1/2	52,167	1/2	37,183	1/2	22,188	1/2	7,190	1/2		1/2		1/2		1/2		1/2	
3/4	66,853	3/4	51,855	3/4	36,871	3/4	21,876	3/4	6,878	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3000"

PORT SLOP TANK

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

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	4,137	0	2,982	0	1,829	0	674	0		0		0		0	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,804	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
1		1	5,140	1	4,041	1	2,886	1	1,732	1	577	1		1		1		1	
1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4	553	1/4		1/4		1/4		1/4	
1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2	529	1/2		1/2		1/2		1/2	
3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4	505	3/4		3/4		3/4		3/4	
2		2	5,093	2	3,945	2	2,790	2	1,636	2	481	2		2		2		2	
1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4	457	1/4		1/4		1/4		1/4	
1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2	433	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4	409	3/4		3/4		3/4		3/4	
3		3	4,999	3	3,849	3	2,693	3	1,540	3	385	3		3		3		3	
1/4		1/4	4,975	1/4	3,824	1/4	2,669	1/4	1,516	1/4	361	1/4		1/4		1/4		1/4	
1/2		1/2	4,952	1/2	3,800	1/2	2,645	1/2	1,492	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4	4,928	3/4	3,776	3/4	2,621	3/4	1,468	3/4	313	3/4		3/4		3/4		3/4	
4		4	4,904	4	3,752	4	2,597	4	1,444	4	289	4		4		4		4	
1/4		1/4	4,881	1/4	3,728	1/4	2,573	1/4	1,419	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4	217	3/4		3/4		3/4		3/4	
5		5	4,810	5	3,656	5	2,502	5	1,347	5	192	5		5		5		5	
1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4	168	1/4		1/4		1/4		1/4	
1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2	144	1/2		1/2		1/2		1/2	
3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4	120	3/4		3/4		3/4		3/4	
6		6	4,715	6	3,560	6	2,406	6	1,251	6	96	6		6		6		6	
1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4	72	1/4		1/4		1/4		1/4	
1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2	48	1/2		1/2		1/2		1/2	
3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4	24	3/4		3/4		3/4		3/4	
7		7	4,619	7	3,464	7	2,310	7	1,155	7		7		7		7		7	
1/4		1/4	4,594	1/4	3,439	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4		3/4	
8		8	4,522	8	3,367	8	2,214	8	1,059	8		8		8		8		8	
1/4		1/4	4,498	1/4	3,343	1/4	2,189	1/4	1,035	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4		3/4	
9		9	4,426	9	3,271	9	2,117	9	962	9		9		9		9		9	
1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4		3/4	
10		10	4,330	10	3,175	10	2,021	10	866	10		10		10		10		10	
1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4		3/4	
11		11	4,234	11	3,078	11	1,925	11	770	11		11		11		11		11	
1/4		1/4	4,209	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3000"

STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

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	4,137	0	2,982	0	1,829	0	674	0		0		0		0	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,804	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
1		1	5,140	1	4,041	1	2,886	1	1,732	1	577	1		1		1		1	
1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4	553	1/4		1/4		1/4		1/4	
1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2	529	1/2		1/2		1/2		1/2	
3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4	505	3/4		3/4		3/4		3/4	
2		2	5,093	2	3,945	2	2,790	2	1,636	2	481	2		2		2		2	
1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4	457	1/4		1/4		1/4		1/4	
1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2	433	1/2		1/2		1/2		1/2	
3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4	409	3/4		3/4		3/4		3/4	
3		3	4,999	3	3,849	3	2,693	3	1,540	3	385	3		3		3		3	
1/4		1/4	4,975	1/4	3,824	1/4	2,669	1/4	1,516	1/4	361	1/4		1/4		1/4		1/4	
1/2		1/2	4,952	1/2	3,800	1/2	2,645	1/2	1,492	1/2	337	1/2		1/2		1/2		1/2	
3/4		3/4	4,928	3/4	3,776	3/4	2,621	3/4	1,468	3/4	313	3/4		3/4		3/4		3/4	
4		4	4,904	4	3,752	4	2,597	4	1,444	4	289	4		4		4		4	
1/4		1/4	4,881	1/4	3,728	1/4	2,573	1/4	1,419	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4	217	3/4		3/4		3/4		3/4	
5		5	4,810	5	3,656	5	2,502	5	1,347	5	192	5		5		5		5	
1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4	168	1/4		1/4		1/4		1/4	
1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2	144	1/2		1/2		1/2		1/2	
3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4	120	3/4		3/4		3/4		3/4	
6		6	4,715	6	3,560	6	2,406	6	1,251	6	96	6		6		6		6	
1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4		3/4		3/4		3/4		3/4	
7		7	4,619	7	3,464	7	2,310	7	1,155	7		7		7		7		7	
1/4		1/4	4,594	1/4	3,439	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4		3/4	
8		8	4,522	8	3,367	8	2,214	8	1,059	8		8		8		8		8	
1/4		1/4	4,498	1/4	3,343	1/4	2,189	1/4	1,035	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4		3/4	
9		9	4,426	9	3,271	9	2,117	9	962	9		9		9		9		9	
1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4		3/4	
10		10	4,330	10	3,175	10	2,021	10	866	10		10		10		10		10	
1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4		3/4	
11		11	4,234	11	3,078	11	1,925	11	770	11		11		11		11		11	
1/4		1/4	4,209	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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