



BARGE "HSM 3031"

ULLAGE TRIM TABLE 8" GAUGE HATCH

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

December 11, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3031"

ULLAGE TRIM TABLE "MMC" GAUGE

	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	- 00-1/8	00-1/8	- 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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8

(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"

December 11, 2019

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

<http://www.pmacorp.net>



BARGE "HSM 3031"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	199,715	0	184,724	0	169,717	0	154,682	0	139,648	0	124,613	0	109,578	0	94,538	
1/4	1/4	1/4	1/4	199,403	1/4	184,412	1/4	169,404	1/4	154,369	1/4	139,334	1/4	124,300	1/4	109,265	1/4	94,225	
1/2	1/2	1/2	1/2	199,090	1/2	184,099	1/2	169,090	1/2	154,056	1/2	139,021	1/2	123,987	1/2	108,952	1/2	93,911	
3/4	3/4	3/4	3/4	198,778	3/4	183,787	3/4	168,777	3/4	153,743	3/4	138,708	3/4	123,673	3/4	108,639	3/4	93,598	
1	1	1	1	198,466	1	183,475	1	168,464	1	153,429	1	138,395	1	123,360	1	108,325	1	93,285	
1/4	1/4	1/4	1/4	198,153	1/4	183,163	1/4	168,151	1/4	153,116	1/4	138,082	1/4	123,047	1/4	108,012	1/4	92,971	
1/2	1/2	1/2	1/2	197,841	1/2	182,850	1/2	167,838	1/2	152,803	1/2	137,768	1/2	122,734	1/2	107,699	1/2	92,658	
3/4	3/4	3/4	3/4	197,529	3/4	182,538	3/4	167,524	3/4	152,490	3/4	137,455	3/4	122,420	3/4	107,386	3/4	92,345	
2	2	2	2	197,216	2	182,226	2	167,211	2	152,176	2	137,142	2	122,107	2	107,072	2	92,031	
1/4	1/4	1/4	1/4	196,904	1/4	181,913	1/4	166,898	1/4	151,863	1/4	136,829	1/4	121,794	1/4	106,759	1/4	91,718	
1/2	1/2	1/2	1/2	196,592	1/2	181,601	1/2	166,585	1/2	151,550	1/2	136,515	1/2	121,481	1/2	106,446	1/2	91,404	
3/4	3/4	3/4	3/4	196,280	3/4	181,289	3/4	166,271	3/4	151,237	3/4	136,202	3/4	121,168	3/4	106,132	3/4	91,091	
3	3	3	3	195,967	3	180,976	3	165,958	3	150,924	3	135,889	3	120,854	3	105,819	3	90,778	
1/4	1/4	1/4	1/4	195,655	1/4	180,664	1/4	165,645	1/4	150,610	1/4	135,576	1/4	120,541	1/4	105,506	1/4	90,464	
1/2	1/2	1/2	1/2	195,343	1/2	180,352	1/2	165,332	1/2	150,297	1/2	135,263	1/2	120,228	1/2	105,192	1/2	90,151	
3/4	3/4	3/4	3/4	195,030	3/4	180,039	3/4	165,019	3/4	149,984	3/4	134,949	3/4	119,915	3/4	104,879	3/4	89,838	
4	4	4	4	194,718	4	179,727	4	164,705	4	149,671	4	134,636	4	119,601	4	104,565	4	89,524	
1/4	1/4	1/4	1/4	194,406	1/4	179,415	1/4	164,392	1/4	149,357	1/4	134,323	1/4	119,288	1/4	104,252	1/4	89,211	
1/2	1/2	1/2	1/2	194,093	1/2	179,103	1/2	164,079	1/2	149,044	1/2	134,010	1/2	118,975	1/2	103,939	1/2	88,898	
3/4	3/4	3/4	3/4	193,781	3/4	178,790	3/4	163,766	3/4	148,731	3/4	133,696	3/4	118,662	3/4	103,625	3/4	88,584	
5	5	5	5	193,469	5	178,478	5	163,452	5	148,418	5	133,383	5	118,349	5	103,312	5	88,271	
1/4	1/4	1/4	1/4	193,156	1/4	178,166	1/4	163,139	1/4	148,105	1/4	133,070	1/4	118,035	1/4	102,999	1/4	87,958	
1/2	1/2	1/2	1/2	192,844	1/2	177,853	1/2	162,826	1/2	147,791	1/2	132,757	1/2	117,722	1/2	102,685	1/2	87,644	
3/4	3/4	3/4	3/4	192,532	3/4	177,541	3/4	162,513	3/4	147,478	3/4	132,444	3/4	117,409	3/4	102,372	3/4	87,331	
6	6	6	6	192,220	6	177,229	6	162,200	6	147,165	6	132,130	6	117,096	6	102,059	6	87,017	
1/4	1/4	1/4	1/4	191,907	1/4	176,916	1/4	161,886	1/4	146,852	1/4	131,817	1/4	116,782	1/4	101,745	1/4	86,704	
1/2	1/2	1/2	1/2	191,595	1/2	176,604	1/2	161,573	1/2	146,539	1/2	131,504	1/2	116,469	1/2	101,432	1/2	86,391	
3/4	3/4	3/4	3/4	191,283	3/4	176,292	3/4	161,260	3/4	146,225	3/4	131,191	3/4	116,156	3/4	101,119	3/4	86,077	
7	7	7	7	190,970	7	175,979	7	160,947	7	145,912	7	130,877	7	115,843	7	100,805	7	85,764	
1/4	1/4	1/4	1/4	190,658	1/4	175,667	1/4	160,633	1/4	145,599	1/4	130,564	1/4	115,530	1/4	100,492	1/4	85,451	
1/2	1/2	1/2	1/2	190,346	1/2	175,354	1/2	160,320	1/2	145,286	1/2	130,251	1/2	115,216	1/2	100,178	1/2	85,137	
3/4	3/4	3/4	3/4	190,033	3/4	175,041	3/4	160,007	3/4	144,972	3/4	129,938	3/4	114,903	3/4	99,865	3/4	84,824	
8	8	8	8	189,721	8	174,728	8	159,694	8	144,659	8	129,625	8	114,590	8	99,552	8	84,511	
1/4	1/4	1/4	1/4	189,409	1/4	174,415	1/4	159,381	1/4	144,346	1/4	129,311	1/4	114,277	1/4	99,238	1/4	84,197	
1/2	1/2	1/2	1/2	189,096	1/2	174,102	1/2	159,067	1/2	144,033	1/2	128,998	1/2	113,963	1/2	98,925	1/2	83,884	
3/4	3/4	3/4	3/4	188,784	3/4	173,789	3/4	158,754	3/4	143,720	3/4	128,685	3/4	113,650	3/4	98,612	3/4	83,571	
9	9	9	9	188,472	9	173,476	9	158,441	9	143,406	9	128,372	9	113,337	9	98,298	9	83,257	
1/4	1/4	1/4	1/4	188,159	1/4	173,162	1/4	158,128	1/4	143,093	1/4	128,058	1/4	113,024	1/4	97,985	1/4	82,944	
1/2	1/2	1/2	1/2	187,847	1/2	172,849	1/2	157,814	1/2	142,780	1/2	127,745	1/2	112,711	1/2	97,672	1/2	82,630	
3/4	3/4	3/4	3/4	187,535	3/4	172,536	3/4	157,501	3/4	142,467	3/4	127,432	3/4	112,397	3/4	97,358	3/4	82,317	
10	10	10	10	187,223	10	172,223	10	157,188	10	142,153	10	127,119	10	112,084	10	97,045	10	82,004	
1/4	1/4	1/4	1/4	186,910	1/4	171,909	1/4	156,875	1/4	141,840	1/4	126,806	1/4	111,771	1/4	96,732	1/4	81,690	
1/2	1/2	1/2	1/2	186,598	1/2	171,596	1/2	156,562	1/2	141,527	1/2	126,492	1/2	111,458	1/2	96,418	1/2	81,377	
3/4	3/4	3/4	3/4	186,286	3/4	171,283	3/4	156,248	3/4	141,214	3/4	126,179	3/4	111,144	3/4	96,105	3/4	81,064	
11	11	11	11	185,973	11	170,970	11	155,935	11	140,901	11	125,866	11	110,831	11	95,791	11	80,750	
1/4	1/4	1/4	1/4	185,661	1/4	170,657	1/4	155,622	1/4	140,587	1/4	125,553	1/4	110,518	1/4	95,478	1/4	80,437	
1/2	1/2	1/2	1/2	185,349	1/2	170,343	1/2	155,309	1/2	140,274	1/2	125,239	1/2	110,205	1/2	95,165	1/2	80,124	
3/4	3/4	3/4	3/4	185,036	3/4	170,030	3/4	154,995	3/4	139,961	3/4	124,926	3/4	109,892	3/4	94,851	3/4	79,810	

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3031"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	79,497	0	64,456	0	49,516	0	34,479	0	19,438	0	5,250	0		0		0		0	
1/4	79,184	1/4	64,144	1/4	49,204	1/4	34,165	1/4	19,125	1/4	4,979	1/4		1/4		1/4		1/4	
1/2	78,870	1/2	63,832	1/2	48,891	1/2	33,852	1/2	18,811	1/2	4,708	1/2		1/2		1/2		1/2	
3/4	78,557	3/4	63,520	3/4	48,579	3/4	33,539	3/4	18,498	3/4	4,437	3/4		3/4		3/4		3/4	
1	78,243	1	63,208	1	48,266	1	33,225	1	18,185	1	4,166	1		1		1		1	
1/4	77,930	1/4	62,897	1/4	47,953	1/4	32,912	1/4	17,872	1/4	3,899	1/4		1/4		1/4		1/4	
1/2	77,617	1/2	62,586	1/2	47,639	1/2	32,599	1/2	17,560	1/2	3,633	1/2		1/2		1/2		1/2	
3/4	77,303	3/4	62,275	3/4	47,326	3/4	32,285	3/4	17,247	3/4	3,366	3/4		3/4		3/4		3/4	
2	76,990	2	61,963	2	47,013	2	31,972	2	16,935	2	3,099	2		2		2		2	
1/4	76,677	1/4	61,652	1/4	46,699	1/4	31,659	1/4	16,626	1/4	2,837	1/4		1/4		1/4		1/4	
1/2	76,363	1/2	61,341	1/2	46,386	1/2	31,345	1/2	16,316	1/2	2,575	1/2		1/2		1/2		1/2	
3/4	76,050	3/4	61,030	3/4	46,073	3/4	31,032	3/4	16,007	3/4	2,312	3/4		3/4		3/4		3/4	
3	75,737	3	60,719	3	45,759	3	30,718	3	15,697	3	2,050	3		3		3		3	
1/4	75,423	1/4	60,408	1/4	45,446	1/4	30,405	1/4	15,391	1/4	1,811	1/4		1/4		1/4		1/4	
1/2	75,110	1/2	60,097	1/2	45,132	1/2	30,092	1/2	15,086	1/2	1,572	1/2		1/2		1/2		1/2	
3/4	74,797	3/4	59,786	3/4	44,819	3/4	29,778	3/4	14,780	3/4	1,333	3/4		3/4		3/4		3/4	
4	74,483	4	59,475	4	44,506	4	29,465	4	14,475	4	1,094	4		4		4		4	
1/4	74,170	1/4	59,164	1/4	44,192	1/4	29,152	1/4	14,173	1/4	917	1/4		1/4		1/4		1/4	
1/2	73,856	1/2	58,853	1/2	43,879	1/2	28,838	1/2	13,871	1/2	740	1/2		1/2		1/2		1/2	
3/4	73,543	3/4	58,542	3/4	43,566	3/4	28,525	3/4	13,569	3/4	563	3/4		3/4		3/4		3/4	
5	73,230	5	58,231	5	43,252	5	28,212	5	13,267	5	386	5		5		5		5	
1/4	72,916	1/4	57,920	1/4	42,939	1/4	27,898	1/4	12,970	1/4		1/4		1/4		1/4		1/4	
1/2	72,603	1/2	57,609	1/2	42,626	1/2	27,585	1/2	12,672	1/2		1/2		1/2		1/2		1/2	
3/4	72,290	3/4	57,298	3/4	42,312	3/4	27,272	3/4	12,374	3/4		3/4		3/4		3/4		3/4	
6	71,976	6	56,987	6	41,999	6	26,958	6	12,076	6		6		6		6		6	
1/4	71,663	1/4	56,676	1/4	41,686	1/4	26,645	1/4	11,782	1/4		1/4		1/4		1/4		1/4	
1/2	71,350	1/2	56,365	1/2	41,372	1/2	26,332	1/2	11,488	1/2		1/2		1/2		1/2		1/2	
3/4	71,036	3/4	56,054	3/4	41,059	3/4	26,018	3/4	11,194	3/4		3/4		3/4		3/4		3/4	
7	70,723	7	55,744	7	40,746	7	25,705	7	10,900	7		7		7		7		7	
1/4	70,410	1/4	55,433	1/4	40,432	1/4	25,392	1/4	10,609	1/4		1/4		1/4		1/4		1/4	
1/2	70,096	1/2	55,122	1/2	40,119	1/2	25,078	1/2	10,319	1/2		1/2		1/2		1/2		1/2	
3/4	69,783	3/4	54,811	3/4	39,806	3/4	24,765	3/4	10,029	3/4		3/4		3/4		3/4		3/4	
8	69,469	8	54,500	8	39,492	8	24,452	8	9,739	8		8		8		8		8	
1/4	69,156	1/4	54,189	1/4	39,179	1/4	24,138	1/4	9,452	1/4		1/4		1/4		1/4		1/4	
1/2	68,843	1/2	53,878	1/2	38,866	1/2	23,825	1/2	9,166	1/2		1/2		1/2		1/2		1/2	
3/4	68,529	3/4	53,567	3/4	38,552	3/4	23,511	3/4	8,880	3/4		3/4		3/4		3/4		3/4	
9	68,216	9	53,256	9	38,239	9	23,198	9	8,593	9		9		9		9		9	
1/4	67,903	1/4	52,944	1/4	37,925	1/4	22,885	1/4	8,311	1/4		1/4		1/4		1/4		1/4	
1/2	67,589	1/2	52,633	1/2	37,612	1/2	22,571	1/2	8,028	1/2		1/2		1/2		1/2		1/2	
3/4	67,276	3/4	52,322	3/4	37,299	3/4	22,258	3/4	7,746	3/4		3/4		3/4		3/4		3/4	
10	66,963	10	52,011	10	36,985	10	21,945	10	7,463	10		10		10		10		10	
1/4	66,649	1/4	51,699	1/4	36,672	1/4	21,631	1/4	7,185	1/4		1/4		1/4		1/4		1/4	
1/2	66,336	1/2	51,387	1/2	36,359	1/2	21,318	1/2	6,906	1/2		1/2		1/2		1/2		1/2	
3/4	66,023	3/4	51,076	3/4	36,045	3/4	21,005	3/4	6,627	3/4		3/4		3/4		3/4		3/4	
11	65,709	11	50,764	11	35,732	11	20,691	11	6,349	11		11		11		11		11	
1/4	65,396	1/4	50,452	1/4	35,419	1/4	20,378	1/4	6,074	1/4		1/4		1/4		1/4		1/4	
1/2	65,083	1/2	50,140	1/2	35,105	1/2	20,065	1/2	5,799	1/2		1/2		1/2		1/2		1/2	
3/4	64,770	3/4	49,828	3/4	34,792	3/4	19,751	3/4	5,525	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	198,803	0	183,888	0	168,956	0	153,998	0	139,039	0	124,080	0	109,121	0	94,157
1/4	1/4	1/4	1/4	1/4	198,493	1/4	183,577	1/4	168,645	1/4	153,686	1/4	138,727	1/4	123,768	1/4	108,810	1/4	93,845
1/2	1/2	1/2	1/2	1/2	198,182	1/2	183,267	1/2	168,333	1/2	153,374	1/2	138,415	1/2	123,457	1/2	108,498	1/2	93,534
3/4	3/4	3/4	3/4	3/4	197,871	3/4	182,956	3/4	168,022	3/4	153,063	3/4	138,104	3/4	123,145	3/4	108,186	3/4	93,222
1	1	1	1	1	197,560	1	182,645	1	167,710	1	152,751	1	137,792	1	122,833	1	107,875	1	92,910
1/4	1/4	1/4	1/4	1/4	197,250	1/4	182,334	1/4	167,398	1/4	152,439	1/4	137,480	1/4	122,522	1/4	107,563	1/4	92,598
1/2	1/2	1/2	1/2	1/2	196,939	1/2	182,024	1/2	167,087	1/2	152,128	1/2	137,169	1/2	122,210	1/2	107,251	1/2	92,286
3/4	3/4	3/4	3/4	3/4	196,628	3/4	181,713	3/4	166,775	3/4	151,816	3/4	136,857	3/4	121,899	3/4	106,940	3/4	91,975
2	2	2	2	2	210,186	2	196,317	2	181,402	2	166,463	2	151,504	2	136,546	2	121,587	2	106,628
1/4	1/4	1/4	1/4	1/4	210,007	1/4	196,007	1/4	181,091	1/4	166,152	1/4	151,193	1/4	136,234	1/4	121,275	1/4	106,316
1/2	1/2	1/2	1/2	1/2	209,829	1/2	195,696	1/2	180,781	1/2	165,840	1/2	150,881	1/2	135,922	1/2	120,964	1/2	106,004
3/4	3/4	3/4	3/4	3/4	209,650	3/4	195,385	3/4	180,470	3/4	165,528	3/4	150,569	3/4	135,611	3/4	120,652	3/4	105,693
3	3	3	3	3	209,471	3	195,075	3	180,159	3	165,217	3	150,258	3	135,299	3	120,340	3	105,381
1/4	1/4	1/4	1/4	1/4	209,240	1/4	194,764	1/4	179,849	1/4	164,905	1/4	149,946	1/4	134,987	1/4	120,029	1/4	105,069
1/2	1/2	1/2	1/2	1/2	209,009	1/2	194,453	1/2	179,538	1/2	164,593	1/2	149,635	1/2	134,676	1/2	119,717	1/2	104,757
3/4	3/4	3/4	3/4	3/4	208,779	3/4	194,142	3/4	179,227	3/4	164,282	3/4	149,323	3/4	134,364	3/4	119,405	3/4	104,446
4	4	4	4	4	208,548	4	193,832	4	178,916	4	163,970	4	149,011	4	134,052	4	119,094	4	104,134
1/4	1/4	1/4	1/4	1/4	208,269	1/4	193,521	1/4	178,606	1/4	163,659	1/4	148,700	1/4	133,741	1/4	118,782	1/4	103,822
1/2	1/2	1/2	1/2	1/2	207,990	1/2	193,210	1/2	178,295	1/2	163,347	1/2	148,388	1/2	133,429	1/2	118,471	1/2	103,510
3/4	3/4	3/4	3/4	3/4	207,711	3/4	192,899	3/4	177,984	3/4	163,035	3/4	148,076	3/4	133,118	3/4	118,159	3/4	103,198
5	5	5	5	5	207,432	5	192,589	5	177,673	5	162,724	5	147,765	5	132,806	5	117,847	5	102,887
1/4	1/4	1/4	1/4	1/4	207,127	1/4	192,278	1/4	177,363	1/4	162,412	1/4	147,453	1/4	132,494	1/4	117,536	1/4	102,575
1/2	1/2	1/2	1/2	1/2	206,823	1/2	191,967	1/2	177,052	1/2	162,100	1/2	147,141	1/2	132,183	1/2	117,224	1/2	102,263
3/4	3/4	3/4	3/4	3/4	206,518	3/4	191,656	3/4	176,741	3/4	161,789	3/4	146,830	3/4	131,871	3/4	116,912	3/4	101,951
6	6	6	6	6	206,214	6	191,346	6	176,430	6	161,477	6	146,518	6	131,559	6	116,601	6	101,640
1/4	1/4	1/4	1/4	1/4	205,905	1/4	191,035	1/4	176,120	1/4	161,165	1/4	146,206	1/4	131,248	1/4	116,289	1/4	101,328
1/2	1/2	1/2	1/2	1/2	205,597	1/2	190,724	1/2	175,809	1/2	160,854	1/2	145,895	1/2	130,936	1/2	115,977	1/2	101,016
3/4	3/4	3/4	3/4	3/4	205,289	3/4	190,413	3/4	175,498	3/4	160,542	3/4	145,583	3/4	130,624	3/4	115,666	3/4	100,704
7	7	7	7	7	204,981	7	190,103	7	175,188	7	160,230	7	145,272	7	130,313	7	115,354	7	100,393
1/4	1/4	1/4	1/4	1/4	204,672	1/4	189,792	1/4	174,876	1/4	159,919	1/4	144,960	1/4	130,001	1/4	115,042	1/4	100,081
1/2	1/2	1/2	1/2	1/2	204,363	1/2	189,481	1/2	174,565	1/2	159,607	1/2	144,648	1/2	129,689	1/2	114,731	1/2	99,769
3/4	3/4	3/4	3/4	3/4	204,055	3/4	189,171	3/4	174,254	3/4	159,296	3/4	144,337	3/4	129,378	3/4	114,419	3/4	99,457
8	8	8	8	8	203,746	8	188,860	8	173,943	8	158,984	8	144,025	8	129,066	8	114,108	8	99,145
1/4	1/4	1/4	1/4	1/4	203,437	1/4	188,549	1/4	173,631	1/4	158,672	1/4	143,713	1/4	128,755	1/4	113,796	1/4	98,834
1/2	1/2	1/2	1/2	1/2	203,129	1/2	188,238	1/2	173,319	1/2	158,361	1/2	143,402	1/2	128,443	1/2	113,484	1/2	98,522
3/4	3/4	3/4	3/4	3/4	202,820	3/4	187,928	3/4	173,008	3/4	158,049	3/4	143,090	3/4	128,131	3/4	113,173	3/4	98,210
9	9	9	9	9	202,511	9	187,617	9	172,696	9	157,737	9	142,778	9	127,820	9	112,861	9	97,898
1/4	1/4	1/4	1/4	1/4	202,202	1/4	187,306	1/4	172,385	1/4	157,426	1/4	142,467	1/4	127,508	1/4	112,549	1/4	97,587
1/2	1/2	1/2	1/2	1/2	201,894	1/2	186,995	1/2	172,073	1/2	157,114	1/2	142,155	1/2	127,196	1/2	112,238	1/2	97,275
3/4	3/4	3/4	3/4	3/4	201,585	3/4	186,685	3/4	171,761	3/4	156,802	3/4	141,843	3/4	126,885	3/4	111,926	3/4	96,963
10	10	10	10	10	201,276	10	186,374	10	171,450	10	156,491	10	141,532	10	126,573	10	111,614	10	96,651
1/4	1/4	1/4	1/4	1/4	200,968	1/4	186,063	1/4	171,138	1/4	156,179	1/4	141,220	1/4	126,261	1/4	111,303	1/4	96,339
1/2	1/2	1/2	1/2	1/2	200,659	1/2	185,752	1/2	170,826	1/2	155,867	1/2	140,909	1/2	125,950	1/2	110,991	1/2	96,028
3/4	3/4	3/4	3/4	3/4	200,351	3/4	185,442	3/4	170,515	3/4	155,556	3/4	140,597	3/4	125,638	3/4	110,680	3/4	95,716
11	11	11	11	11	200,042	11	185,131	11	170,203	11	155,244	11	140,285	11	125,327	11	110,368	11	95,404
1/4	1/4	1/4	1/4	1/4	199,732	1/4	184,820	1/4	169,891	1/4	154,933	1/4	139,974	1/4	125,015	1/4	110,056	1/4	95,092
1/2	1/2	1/2	1/2	1/2	199,423	1/2	184,510	1/2	169,580	1/2	154,621	1/2	139,662	1/2	124,703	1/2	109,745	1/2	94,781
3/4	3/4	3/4	3/4	3/4	199,113	3/4	184,199	3/4	169,268	3/4	154,309	3/4	139,350	3/4	124,392	3/4	109,433	3/4	94,469

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3031"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	79,192	0	64,227	0	49,269	0	34,304	0	19,340	0	5,223	0		0		0		0	
1/4	78,880	1/4	63,915	1/4	48,957	1/4	33,993	1/4	19,028	1/4	4,954				1/4		1/4		1/4
1/2	78,568	1/2	63,603	1/2	48,646	1/2	33,681	1/2	18,716	1/2	4,684	1/2		1/2		1/2		1/2	
3/4	78,257	3/4	63,292	3/4	48,334	3/4	33,369	3/4	18,405	3/4	4,415	3/4		3/4		3/4		3/4	
1	77,945	1	62,980	1	48,022	1	33,057	1	18,093	1	4,145	1		1		1		1	
1/4	77,633	1/4	62,668	1/4	47,710	1/4	32,746	1/4	17,782	1/4	3,880	1/4		1/4		1/4		1/4	
1/2	77,321	1/2	62,356	1/2	47,399	1/2	32,434	1/2	17,471	1/2	3,614	1/2		1/2		1/2		1/2	
3/4	77,010	3/4	62,045	3/4	47,087	3/4	32,122	3/4	17,160	3/4	3,349	3/4		3/4		3/4		3/4	
2	76,698	2	61,733	2	46,775	2	31,810	2	16,850	2	3,083	2		2		2		2	
1/4	76,386	1/4	61,421	1/4	46,463	1/4	31,499	1/4	16,542	1/4	2,823	1/4		1/4		1/4		1/4	
1/2	76,074	1/2	61,110	1/2	46,151	1/2	31,187	1/2	16,234	1/2	2,562	1/2		1/2		1/2		1/2	
3/4	75,762	3/4	60,798	3/4	45,840	3/4	30,875	3/4	15,926	3/4	2,301	3/4		3/4		3/4		3/4	
3	75,451	3	60,486	3	45,528	3	30,563	3	15,618	3	2,040	3		3		3		3	
1/4	75,139	1/4	60,175	1/4	45,216	1/4	30,252	1/4	15,314	1/4	1,802	1/4		1/4		1/4		1/4	
1/2	74,827	1/2	59,863	1/2	44,904	1/2	29,940	1/2	15,010	1/2	1,564	1/2		1/2		1/2		1/2	
3/4	74,515	3/4	59,552	3/4	44,593	3/4	29,628	3/4	14,706	3/4	1,327	3/4		3/4		3/4		3/4	
4	74,204	4	59,240	4	44,281	4	29,316	4	14,401	4	1,089	4		4		4		4	
1/4	73,892	1/4	58,929	1/4	43,969	1/4	29,004	1/4	14,101	1/4	913	1/4		1/4		1/4		1/4	
1/2	73,580	1/2	58,617	1/2	43,657	1/2	28,693	1/2	13,801	1/2	736	1/2		1/2		1/2		1/2	
3/4	73,268	3/4	58,306	3/4	43,346	3/4	28,381	3/4	13,501	3/4	560	3/4		3/4		3/4		3/4	
5	72,956	5	57,994	5	43,034	5	28,069	5	13,200	5	384	5		5		5		5	
1/4	72,645	1/4	57,683	1/4	42,722	1/4	27,757	1/4	12,904	1/4		1/4		1/4		1/4		1/4	
1/2	72,333	1/2	57,371	1/2	42,410	1/2	27,446	1/2	12,608	1/2		1/2		1/2		1/2		1/2	
3/4	72,021	3/4	57,059	3/4	42,099	3/4	27,134	3/4	12,311	3/4		3/4		3/4		3/4		3/4	
6	71,709	6	56,748	6	41,787	6	26,822	6	12,015	6		6		6		6		6	
1/4	71,398	1/4	56,436	1/4	41,475	1/4	26,510	1/4	11,722	1/4		1/4		1/4		1/4		1/4	
1/2	71,086	1/2	56,125	1/2	41,163	1/2	26,199	1/2	11,430	1/2		1/2		1/2		1/2		1/2	
3/4	70,774	3/4	55,813	3/4	40,852	3/4	25,887	3/4	11,137	3/4		3/4		3/4		3/4		3/4	
7	70,462	7	55,502	7	40,540	7	25,575	7	10,845	7		7		7		7		7	
1/4	70,151	1/4	55,190	1/4	40,228	1/4	25,263	1/4	10,556	1/4		1/4		1/4		1/4		1/4	
1/2	69,839	1/2	54,879	1/2	39,916	1/2	24,952	1/2	10,267	1/2		1/2		1/2		1/2		1/2	
3/4	69,527	3/4	54,567	3/4	39,604	3/4	24,640	3/4	9,978	3/4		3/4		3/4		3/4		3/4	
8	69,215	8	54,256	8	39,293	8	24,328	8	9,690	8		8		8		8		8	
1/4	68,903	1/4	53,944	1/4	38,981	1/4	24,016	1/4	9,405	1/4		1/4		1/4		1/4		1/4	
1/2	68,592	1/2	53,633	1/2	38,669	1/2	23,705	1/2	9,120	1/2		1/2		1/2		1/2		1/2	
3/4	68,280	3/4	53,321	3/4	38,357	3/4	23,393	3/4	8,835	3/4		3/4		3/4		3/4		3/4	
9	67,968	9	53,009	9	38,046	9	23,081	9	8,550	9		9		9		9		9	
1/4	67,656	1/4	52,698	1/4	37,734	1/4	22,769	1/4	8,269	1/4		1/4		1/4		1/4		1/4	
1/2	67,345	1/2	52,386	1/2	37,422	1/2	22,457	1/2	7,988	1/2		1/2		1/2		1/2		1/2	
3/4	67,033	3/4	52,075	3/4	37,110	3/4	22,146	3/4	7,707	3/4		3/4		3/4		3/4		3/4	
10	66,721	10	51,763	10	36,799	10	21,834	10	7,426	10		10		10		10		10	
1/4	66,409	1/4	51,451	1/4	36,487	1/4	21,522	1/4	7,149	1/4		1/4		1/4		1/4		1/4	
1/2	66,097	1/2	51,140	1/2	36,175	1/2	21,210	1/2	6,871	1/2		1/2		1/2		1/2		1/2	
3/4	65,786	3/4	50,828	3/4	35,863	3/4	20,899	3/4	6,594	3/4		3/4		3/4		3/4		3/4	
11	65,474	11	50,516	11	35,552	11	20,587	11	6,317	11		11		11		11		11	
1/4	65,162	1/4	50,204	1/4	35,240	1/4	20,275	1/4	6,043	1/4		1/4		1/4		1/4		1/4	
1/2	64,850	1/2	49,893	1/2	34,928	1/2	19,963	1/2	5,770	1/2		1/2		1/2		1/2		1/2	
3/4	64,539	3/4	49,581	3/4	34,616	3/4	19,652	3/4	5,497	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	201,721	0	186,695	0	171,650	0	156,572	0	141,495	0	126,418	0	111,340	0	96,256
1/4		1/4		1/4	201,408	1/4	186,382	1/4	171,336	1/4	156,258	1/4	141,181	1/4	126,104	1/4	111,026	1/4	95,942
1/2		1/2		1/2	201,095	1/2	186,069	1/2	171,022	1/2	155,944	1/2	140,867	1/2	125,790	1/2	110,712	1/2	95,628
3/4		3/4		3/4	200,782	3/4	185,756	3/4	170,707	3/4	155,630	3/4	140,553	3/4	125,475	3/4	110,398	3/4	95,314
1	1	1	1	1	200,469	1	185,443	1	170,393	1	155,316	1	140,239	1	125,161	1	110,084	1	94,999
1/4		1/4		1/4	200,156	1/4	185,130	1/4	170,079	1/4	155,002	1/4	139,925	1/4	124,847	1/4	109,770	1/4	94,685
1/2		1/2		1/2	199,843	1/2	184,817	1/2	169,765	1/2	154,688	1/2	139,610	1/2	124,533	1/2	109,456	1/2	94,371
3/4		3/4		3/4	199,530	3/4	184,504	3/4	169,451	3/4	154,374	3/4	139,296	3/4	124,219	3/4	109,141	3/4	94,057
2	2	2	2	2	199,217	2	184,191	2	169,137	2	154,060	2	138,982	2	123,905	2	108,827	2	93,742
1/4		1/4		1/4	198,904	1/4	183,878	1/4	168,823	1/4	153,745	1/4	138,668	1/4	123,591	1/4	108,513	1/4	93,428
1/2		1/2		1/2	198,591	1/2	183,565	1/2	168,509	1/2	153,431	1/2	138,354	1/2	123,277	1/2	108,199	1/2	93,114
3/4		3/4		3/4	198,278	3/4	183,252	3/4	168,195	3/4	153,117	3/4	138,040	3/4	122,963	3/4	107,884	3/4	92,799
3	3	3	3	3	197,965	3	182,939	3	167,880	3	152,803	3	137,726	3	122,648	3	107,570	3	92,485
1/4		1/4		1/4	197,652	1/4	182,626	1/4	167,566	1/4	152,489	1/4	137,412	1/4	122,334	1/4	107,256	1/4	92,171
1/2		1/2		1/2	197,339	1/2	182,313	1/2	167,252	1/2	152,175	1/2	137,098	1/2	122,020	1/2	106,942	1/2	91,857
3/4		3/4		3/4	197,026	3/4	182,000	3/4	166,938	3/4	151,861	3/4	136,783	3/4	121,706	3/4	106,627	3/4	91,542
4	4	4	4	4	196,713	4	181,686	4	166,624	4	151,547	4	136,469	4	121,392	4	106,313	4	91,228
1/4		1/4		1/4	196,400	1/4	181,373	1/4	166,310	1/4	151,233	1/4	136,155	1/4	121,078	1/4	105,999	1/4	90,914
1/2		1/2		1/2	196,087	1/2	181,060	1/2	165,996	1/2	150,918	1/2	135,841	1/2	120,764	1/2	105,685	1/2	90,600
3/4		3/4		3/4	195,774	3/4	180,747	3/4	165,682	3/4	150,604	3/4	135,527	3/4	120,450	3/4	105,370	3/4	90,285
5	5	5	5	5	195,460	5	180,434	5	165,368	5	150,290	5	135,213	5	120,136	5	105,056	5	89,971
1/4		1/4		1/4	195,147	1/4	180,121	1/4	165,053	1/4	149,976	1/4	134,899	1/4	119,821	1/4	104,742	1/4	89,657
1/2		1/2		1/2	194,834	1/2	179,808	1/2	164,739	1/2	149,662	1/2	134,585	1/2	119,507	1/2	104,427	1/2	89,343
3/4		3/4		3/4	194,521	3/4	179,495	3/4	164,425	3/4	149,348	3/4	134,271	3/4	119,193	3/4	104,113	3/4	89,028
6	6	6	6	6	194,208	6	179,182	6	164,111	6	149,034	6	133,956	6	118,879	6	103,799	6	88,714
1/4		1/4		1/4	193,895	1/4	178,869	1/4	163,797	1/4	148,720	1/4	133,642	1/4	118,565	1/4	103,485	1/4	88,400
1/2		1/2		1/2	193,582	1/2	178,556	1/2	163,483	1/2	148,406	1/2	133,328	1/2	118,251	1/2	103,170	1/2	88,085
3/4		3/4		3/4	193,269	3/4	178,243	3/4	163,169	3/4	148,091	3/4	133,014	3/4	117,937	3/4	102,856	3/4	87,771
7	7	7	7	7	192,956	7	177,930	7	162,855	7	147,777	7	132,700	7	117,623	7	102,542	7	87,457
1/4		1/4		1/4	192,643	1/4	177,616	1/4	162,541	1/4	147,463	1/4	132,386	1/4	117,309	1/4	102,228	1/4	87,143
1/2		1/2		1/2	192,330	1/2	177,303	1/2	162,226	1/2	147,149	1/2	132,072	1/2	116,994	1/2	101,913	1/2	86,828
3/4		3/4		3/4	192,017	3/4	176,989	3/4	161,912	3/4	146,835	3/4	131,758	3/4	116,680	3/4	101,599	3/4	86,514
8	8	8	8	8	191,704	8	176,676	8	161,598	8	146,521	8	131,444	8	116,366	8	101,285	8	86,200
1/4		1/4		1/4	191,391	1/4	176,362	1/4	161,284	1/4	146,207	1/4	131,129	1/4	116,052	1/4	100,970	1/4	85,886
1/2		1/2		1/2	191,078	1/2	176,047	1/2	160,970	1/2	145,893	1/2	130,815	1/2	115,738	1/2	100,656	1/2	85,571
3/4		3/4		3/4	190,765	3/4	175,733	3/4	160,656	3/4	145,579	3/4	130,501	3/4	115,424	3/4	100,342	3/4	85,257
9	9	9	9	9	190,452	9	175,419	9	160,342	9	145,264	9	130,187	9	115,110	9	100,028	9	84,943
1/4		1/4		1/4	190,139	1/4	175,105	1/4	160,028	1/4	144,950	1/4	129,873	1/4	114,796	1/4	99,713	1/4	84,628
1/2		1/2		1/2	189,826	1/2	174,791	1/2	159,714	1/2	144,636	1/2	129,559	1/2	114,482	1/2	99,399	1/2	84,314
3/4		3/4		3/4	189,513	3/4	174,477	3/4	159,399	3/4	144,322	3/4	129,245	3/4	114,167	3/4	99,085	3/4	84,000
10	10	10	10	10	189,200	10	174,163	10	159,085	10	144,008	10	128,931	10	113,853	10	98,771	10	83,686
1/4		1/4		1/4	188,887	1/4	173,849	1/4	158,771	1/4	143,694	1/4	128,617	1/4	113,539	1/4	98,456	1/4	83,371
1/2		1/2		1/2	188,573	1/2	173,534	1/2	158,457	1/2	143,380	1/2	128,302	1/2	113,225	1/2	98,142	1/2	83,057
3/4		3/4		3/4	188,260	3/4	173,220	3/4	158,143	3/4	143,066	3/4	127,988	3/4	112,911	3/4	97,828	3/4	82,743
11	11	11	11	11	187,947	11	172,906	11	157,829	11	142,752	11	127,674	11	112,597	11	97,514	11	82,429
1/4		1/4		1/4	187,634	1/4	172,592	1/4	157,515	1/4	142,437	1/4	127,360	1/4	112,283	1/4	97,199	1/4	82,114
1/2		1/2		1/2	187,321	1/2	172,278	1/2	157,201	1/2	142,123	1/2	127,046	1/2	111,969	1/2	96,885	1/2	81,800
3/4		3/4		3/4	187,008	3/4	171,964	3/4	156,887	3/4	141,809	3/4	126,732	3/4	111,655	3/4	96,571	3/4	81,486

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 THREADS ON "MMC" VALVE OR 8" HATCH

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

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3031"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	81,172	0	66,087	0	51,544	0	37,060	0	22,001	0	6,917	0		0		0		0	
1/4	80,857	1/4	65,778	1/4	51,241	1/4	36,752	1/4	21,687	1/4	6,603	1/4		1/4		1/4		1/4	
1/2	80,543	1/2	65,470	1/2	50,939	1/2	36,443	1/2	21,373	1/2	6,288	1/2		1/2		1/2		1/2	
3/4	80,229	3/4	65,161	3/4	50,637	3/4	36,135	3/4	21,059	3/4	5,974	3/4		3/4		3/4		3/4	
1	79,914	1	64,853	1	50,335	1	35,826	1	20,744	1	5,660	1		1		1		1	
1/4	79,600	1/4	64,551	1/4	50,033	1/4	35,512	1/4	20,430	1/4	5,346	1/4		1/4		1/4		1/4	
1/2	79,286	1/2	64,248	1/2	49,732	1/2	35,198	1/2	20,116	1/2	5,032	1/2		1/2		1/2		1/2	
3/4	78,972	3/4	63,946	3/4	49,430	3/4	34,884	3/4	19,802	3/4	4,718	3/4		3/4		3/4		3/4	
2	78,657	2	63,643	2	49,128	2	34,569	2	19,487	2	4,404	2		2		2		2	
1/4	78,343	1/4	63,341	1/4	48,826	1/4	34,255	1/4	19,173	1/4	4,091	1/4		1/4		1/4		1/4	
1/2	78,029	1/2	63,038	1/2	48,525	1/2	33,941	1/2	18,859	1/2	3,777	1/2		1/2		1/2		1/2	
3/4	77,715	3/4	62,736	3/4	48,223	3/4	33,627	3/4	18,545	3/4	3,464	3/4		3/4		3/4		3/4	
3	77,400	3	62,433	3	47,921	3	33,312	3	18,230	3	3,151	3		3		3		3	
1/4	77,086	1/4	62,131	1/4	47,620	1/4	32,998	1/4	17,916	1/4	2,857	1/4		1/4		1/4		1/4	
1/2	76,772	1/2	61,828	1/2	47,318	1/2	32,684	1/2	17,602	1/2	2,563	1/2		1/2		1/2		1/2	
3/4	76,457	3/4	61,526	3/4	47,017	3/4	32,370	3/4	17,287	3/4	2,269	3/4		3/4		3/4		3/4	
4	76,143	4	61,223	4	46,715	4	32,055	4	16,973	4	1,976	4		4		4		4	
1/4	75,829	1/4	60,921	1/4	46,414	1/4	31,741	1/4	16,659	1/4	1,740	1/4		1/4		1/4		1/4	
1/2	75,515	1/2	60,618	1/2	46,112	1/2	31,427	1/2	16,345	1/2	1,504	1/2		1/2		1/2		1/2	
3/4	75,200	3/4	60,316	3/4	45,810	3/4	31,113	3/4	16,030	3/4	1,269	3/4		3/4		3/4		3/4	
5	74,886	5	60,013	5	45,509	5	30,798	5	15,716	5	1,033	5		5		5		5	
1/4	74,572	1/4	59,711	1/4	45,207	1/4	30,484	1/4	15,402	1/4		1/4		1/4		1/4		1/4	
1/2	74,258	1/2	59,408	1/2	44,906	1/2	30,170	1/2	15,088	1/2		1/2		1/2		1/2		1/2	
3/4	73,943	3/4	59,106	3/4	44,604	3/4	29,856	3/4	14,773	3/4		3/4		3/4		3/4		3/4	
6	73,629	6	58,803	6	44,303	6	29,542	6	14,459	6		6		6		6		6	
1/4	73,315	1/4	58,501	1/4	44,001	1/4	29,228	1/4	14,145	1/4		1/4		1/4		1/4		1/4	
1/2	73,001	1/2	58,198	1/2	43,700	1/2	28,913	1/2	13,831	1/2		1/2		1/2		1/2		1/2	
3/4	72,686	3/4	57,896	3/4	43,398	3/4	28,599	3/4	13,516	3/4		3/4		3/4		3/4		3/4	
7	72,372	7	57,593	7	43,097	7	28,285	7	13,202	7		7		7		7		7	
1/4	72,058	1/4	57,291	1/4	42,795	1/4	27,971	1/4	12,888	1/4		1/4		1/4		1/4		1/4	
1/2	71,743	1/2	56,988	1/2	42,493	1/2	27,657	1/2	12,574	1/2		1/2		1/2		1/2		1/2	
3/4	71,429	3/4	56,686	3/4	42,192	3/4	27,343	3/4	12,259	3/4		3/4		3/4		3/4		3/4	
8	71,115	8	56,383	8	41,890	8	27,029	8	11,945	8		8		8		8		8	
1/4	70,801	1/4	56,081	1/4	41,589	1/4	26,715	1/4	11,631	1/4		1/4		1/4		1/4		1/4	
1/2	70,486	1/2	55,778	1/2	41,287	1/2	26,401	1/2	11,317	1/2		1/2		1/2		1/2		1/2	
3/4	70,172	3/4	55,476	3/4	40,986	3/4	26,087	3/4	11,002	3/4		3/4		3/4		3/4		3/4	
9	69,858	9	55,173	9	40,684	9	25,772	9	10,688	9		9		9		9		9	
1/4	69,544	1/4	54,871	1/4	40,383	1/4	25,458	1/4	10,374	1/4		1/4		1/4		1/4		1/4	
1/2	69,229	1/2	54,568	1/2	40,081	1/2	25,144	1/2	10,059	1/2		1/2		1/2		1/2		1/2	
3/4	68,915	3/4	54,266	3/4	39,779	3/4	24,830	3/4	9,745	3/4		3/4		3/4		3/4		3/4	
10	68,601	10	53,964	10	39,478	10	24,515	10	9,431	10		10		10		10		10	
1/4	68,286	1/4	53,661	1/4	39,176	1/4	24,201	1/4	9,117	1/4		1/4		1/4		1/4		1/4	
1/2	67,972	1/2	53,359	1/2	38,874	1/2	23,887	1/2	8,802	1/2		1/2		1/2		1/2		1/2	
3/4	67,658	3/4	53,056	3/4	38,572	3/4	23,573	3/4	8,488	3/4		3/4		3/4		3/4		3/4	
11	67,344	11	52,754	11	38,270	11	23,258	11	8,174	11		11		11		11		11	
1/4	67,029	1/4	52,451	1/4	37,967	1/4	22,944	1/4	7,860	1/4		1/4		1/4		1/4		1/4	
1/2	66,715	1/2	52,149	1/2	37,665	1/2	22,630	1/2	7,545	1/2		1/2		1/2		1/2		1/2	
3/4	66,401	3/4	51,846	3/4	37,362	3/4	22,316	3/4	7,231	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	202,854	0	187,828	0	172,782	0	157,705	0	142,628	0	127,550	0	112,473	0	97,389
1/4		1/4		1/4	202,541	1/4	187,515	1/4	172,468	1/4	157,391	1/4	142,314	1/4	127,236	1/4	112,159	1/4	97,075
1/2		1/2		1/2	202,228	1/2	187,202	1/2	172,154	1/2	157,077	1/2	141,999	1/2	126,922	1/2	111,845	1/2	96,760
3/4		3/4		3/4	201,915	3/4	186,889	3/4	171,840	3/4	156,763	3/4	141,685	3/4	126,608	3/4	111,531	3/4	96,446
1	1	1	1	1	201,602	1	186,576	1	171,526	1	156,449	1	141,371	1	126,294	1	111,217	1	96,132
1/4		1/4		1/4	201,289	1/4	186,263	1/4	171,212	1/4	156,134	1/4	141,057	1/4	125,980	1/4	110,902	1/4	95,818
1/2		1/2		1/2	200,976	1/2	185,950	1/2	170,898	1/2	155,820	1/2	140,743	1/2	125,666	1/2	110,588	1/2	95,503
3/4		3/4		3/4	200,663	3/4	185,636	3/4	170,584	3/4	155,506	3/4	140,429	3/4	125,352	3/4	110,274	3/4	95,189
2	2	2	2	2	214,286	2	200,350	2	185,323	2	170,270	2	155,192	2	140,115	2	125,037	2	109,960
1/4		1/4		1/4	214,106	1/4	200,037	1/4	185,010	1/4	169,955	1/4	154,878	1/4	139,801	1/4	124,723	1/4	109,645
1/2		1/2		1/2	213,927	1/2	199,724	1/2	184,697	1/2	169,641	1/2	154,564	1/2	139,487	1/2	124,409	1/2	109,331
3/4		3/4		3/4	213,748	3/4	199,410	3/4	184,384	3/4	169,327	3/4	154,250	3/4	139,172	3/4	124,095	3/4	109,017
3	3	3	3	3	213,569	3	199,097	3	184,071	3	169,013	3	153,936	3	138,858	3	123,781	3	108,703
1/4		1/4		1/4	213,337	1/4	198,784	1/4	183,758	1/4	168,699	1/4	153,622	1/4	138,544	1/4	123,467	1/4	108,388
1/2		1/2		1/2	213,106	1/2	198,471	1/2	183,445	1/2	168,385	1/2	153,307	1/2	138,230	1/2	123,153	1/2	108,074
3/4		3/4		3/4	212,874	3/4	198,158	3/4	183,132	3/4	168,071	3/4	152,993	3/4	137,916	3/4	122,839	3/4	107,760
4	4	4	4	4	212,643	4	197,845	4	182,819	4	167,757	4	152,679	4	137,602	4	122,525	4	107,446
1/4		1/4		1/4	212,363	1/4	197,532	1/4	182,506	1/4	167,443	1/4	152,365	1/4	137,288	1/4	122,210	1/4	107,131
1/2		1/2		1/2	212,083	1/2	197,219	1/2	182,193	1/2	167,128	1/2	152,051	1/2	136,974	1/2	121,896	1/2	106,817
3/4		3/4		3/4	211,802	3/4	196,906	3/4	181,880	3/4	166,814	3/4	151,737	3/4	136,660	3/4	121,582	3/4	106,503
5	5	5	5	5	211,522	5	196,593	5	181,567	5	166,500	5	151,423	5	136,345	5	121,268	5	106,189
1/4		1/4		1/4	211,216	1/4	196,280	1/4	181,254	1/4	166,186	1/4	151,109	1/4	136,031	1/4	120,954	1/4	105,874
1/2		1/2		1/2	210,911	1/2	195,967	1/2	180,941	1/2	165,872	1/2	150,795	1/2	135,717	1/2	120,640	1/2	105,560
3/4		3/4		3/4	210,605	3/4	195,654	3/4	180,628	3/4	165,558	3/4	150,480	3/4	135,403	3/4	120,326	3/4	105,246
6	6	6	6	6	210,299	6	195,341	6	180,315	6	165,244	6	150,166	6	135,089	6	120,012	6	104,931
1/4		1/4		1/4	209,989	1/4	195,028	1/4	180,002	1/4	164,930	1/4	149,852	1/4	134,775	1/4	119,698	1/4	104,617
1/2		1/2		1/2	209,680	1/2	194,715	1/2	179,689	1/2	164,615	1/2	149,538	1/2	134,461	1/2	119,383	1/2	104,303
3/4		3/4		3/4	209,370	3/4	194,402	3/4	179,376	3/4	164,301	3/4	149,224	3/4	134,147	3/4	119,069	3/4	103,989
7	7	7	7	7	209,060	7	194,089	7	179,062	7	163,987	7	148,910	7	133,833	7	118,755	7	103,674
1/4		1/4		1/4	208,750	1/4	193,776	1/4	178,749	1/4	163,673	1/4	148,596	1/4	133,518	1/4	118,441	1/4	103,360
1/2		1/2		1/2	208,440	1/2	193,463	1/2	178,435	1/2	163,359	1/2	148,282	1/2	133,204	1/2	118,127	1/2	103,046
3/4		3/4		3/4	208,130	3/4	193,150	3/4	178,122	3/4	163,045	3/4	147,968	3/4	132,890	3/4	117,813	3/4	102,732
8	8	8	8	8	207,820	8	192,837	8	177,808	8	162,731	8	147,653	8	132,576	8	117,499	8	102,417
1/4		1/4		1/4	207,510	1/4	192,523	1/4	177,494	1/4	162,417	1/4	147,339	1/4	132,262	1/4	117,185	1/4	102,103
1/2		1/2		1/2	207,200	1/2	192,210	1/2	177,180	1/2	162,103	1/2	147,025	1/2	131,948	1/2	116,871	1/2	101,789
3/4		3/4		3/4	206,890	3/4	191,897	3/4	176,866	3/4	161,788	3/4	146,711	3/4	131,634	3/4	116,556	3/4	101,474
9	9	9	9	9	206,580	9	191,584	9	176,552	9	161,474	9	146,397	9	131,320	9	116,242	9	101,160
1/4		1/4		1/4	206,270	1/4	191,271	1/4	176,238	1/4	161,160	1/4	146,083	1/4	131,006	1/4	115,928	1/4	100,846
1/2		1/2		1/2	205,960	1/2	190,958	1/2	175,924	1/2	160,846	1/2	145,769	1/2	130,691	1/2	115,614	1/2	100,532
3/4		3/4		3/4	205,650	3/4	190,645	3/4	175,609	3/4	160,532	3/4	145,455	3/4	130,377	3/4	115,300	3/4	100,217
10	10	10	10	10	205,340	10	190,332	10	175,295	10	160,218	10	145,141	10	130,063	10	114,986	10	99,903
1/4		1/4		1/4	205,030	1/4	190,019	1/4	174,981	1/4	159,904	1/4	144,826	1/4	129,749	1/4	114,672	1/4	99,589
1/2		1/2		1/2	204,720	1/2	189,706	1/2	174,667	1/2	159,590	1/2	144,512	1/2	129,435	1/2	114,358	1/2	99,275
3/4		3/4		3/4	204,410	3/4	189,393	3/4	174,353	3/4	159,276	3/4	144,198	3/4	129,121	3/4	114,044	3/4	98,960
11	11	11	11	11	204,100	11	189,080	11	174,039	11	158,961	11	143,884	11	128,807	11	113,729	11	98,646
1/4		1/4		1/4	203,788	1/4	188,767	1/4	173,725	1/4	158,647	1/4	143,570	1/4	128,493	1/4	113,415	1/4	98,332
1/2		1/2		1/2	203,477	1/2	188,454	1/2	173,411	1/2	158,333	1/2	143,256	1/2	128,179	1/2	113,101	1/2	98,018
3/4		3/4		3/4	203,165	3/4	188,141	3/4	173,097	3/4	158,019	3/4	142,942	3/4	127,864	3/4	112,787	3/4	97,703

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3031"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,304	0	67,219	0	52,134	0	37,085	0	22,002	0	6,917	0		0		0		0	
1/4	81,990	1/4	66,905	1/4	51,820	1/4	36,770	1/4	21,688	1/4	6,603	1/4		1/4		1/4		1/4	
1/2	81,676	1/2	66,591	1/2	51,506	1/2	36,456	1/2	21,374	1/2	6,289	1/2		1/2		1/2		1/2	
3/4	81,361	3/4	66,276	3/4	51,192	3/4	36,142	3/4	21,059	3/4	5,975	3/4		3/4		3/4		3/4	
1	81,047	1	65,962	1	50,879	1	35,828	1	20,745	1	5,660	1		1		1		1	
1/4	80,733	1/4	65,648	1/4	50,565	1/4	35,513	1/4	20,431	1/4	5,346	1/4		1/4		1/4		1/4	
1/2	80,418	1/2	65,334	1/2	50,251	1/2	35,199	1/2	20,117	1/2	5,032	1/2		1/2		1/2		1/2	
3/4	80,104	3/4	65,019	3/4	49,938	3/4	34,885	3/4	19,802	3/4	4,718	3/4		3/4		3/4		3/4	
2	79,790	2	64,705	2	49,624	2	34,571	2	19,488	2	4,404	2		2		2		2	
1/4	79,476	1/4	64,391	1/4	49,311	1/4	34,256	1/4	19,174	1/4	4,091	1/4		1/4		1/4		1/4	
1/2	79,161	1/2	64,076	1/2	48,997	1/2	33,942	1/2	18,859	1/2	3,778	1/2		1/2		1/2		1/2	
3/4	78,847	3/4	63,762	3/4	48,684	3/4	33,628	3/4	18,545	3/4	3,464	3/4		3/4		3/4		3/4	
3	78,533	3	63,448	3	48,370	3	33,313	3	18,231	3	3,151	3		3		3		3	
1/4	78,219	1/4	63,134	1/4	48,057	1/4	32,999	1/4	17,917	1/4	2,857	1/4		1/4		1/4		1/4	
1/2	77,904	1/2	62,819	1/2	47,744	1/2	32,685	1/2	17,602	1/2	2,563	1/2		1/2		1/2		1/2	
3/4	77,590	3/4	62,505	3/4	47,430	3/4	32,371	3/4	17,288	3/4	2,270	3/4		3/4		3/4		3/4	
4	77,276	4	62,191	4	47,117	4	32,056	4	16,974	4	1,976	4		4		4		4	
1/4	76,961	1/4	61,877	1/4	46,804	1/4	31,742	1/4	16,660	1/4	1,740	1/4		1/4		1/4		1/4	
1/2	76,647	1/2	61,562	1/2	46,490	1/2	31,428	1/2	16,345	1/2	1,504	1/2		1/2		1/2		1/2	
3/4	76,333	3/4	61,248	3/4	46,177	3/4	31,114	3/4	16,031	3/4	1,269	3/4		3/4		3/4		3/4	
5	76,019	5	60,934	5	45,864	5	30,799	5	15,717	5	1,033	5		5		5		5	
1/4	75,704	1/4	60,619	1/4	45,550	1/4	30,485	1/4	15,402	1/4		1/4		1/4		1/4		1/4	
1/2	75,390	1/2	60,305	1/2	45,237	1/2	30,171	1/2	15,088	1/2		1/2		1/2		1/2		1/2	
3/4	75,076	3/4	59,991	3/4	44,924	3/4	29,857	3/4	14,774	3/4		3/4		3/4		3/4		3/4	
6	74,762	6	59,677	6	44,610	6	29,543	6	14,460	6		6		6		6		6	
1/4	74,447	1/4	59,362	1/4	44,297	1/4	29,228	1/4	14,145	1/4		1/4		1/4		1/4		1/4	
1/2	74,133	1/2	59,048	1/2	43,984	1/2	28,914	1/2	13,831	1/2		1/2		1/2		1/2		1/2	
3/4	73,819	3/4	58,734	3/4	43,670	3/4	28,600	3/4	13,517	3/4		3/4		3/4		3/4		3/4	
7	73,505	7	58,420	7	43,357	7	28,286	7	13,203	7		7		7		7		7	
1/4	73,190	1/4	58,105	1/4	43,044	1/4	27,972	1/4	12,888	1/4		1/4		1/4		1/4		1/4	
1/2	72,876	1/2	57,791	1/2	42,730	1/2	27,658	1/2	12,574	1/2		1/2		1/2		1/2		1/2	
3/4	72,562	3/4	57,477	3/4	42,417	3/4	27,344	3/4	12,260	3/4		3/4		3/4		3/4		3/4	
8	72,247	8	57,163	8	42,104	8	27,030	8	11,946	8		8		8		8		8	
1/4	71,933	1/4	56,848	1/4	41,790	1/4	26,716	1/4	11,631	1/4		1/4		1/4		1/4		1/4	
1/2	71,619	1/2	56,534	1/2	41,477	1/2	26,402	1/2	11,317	1/2		1/2		1/2		1/2		1/2	
3/4	71,305	3/4	56,220	3/4	41,164	3/4	26,088	3/4	11,003	3/4		3/4		3/4		3/4		3/4	
9	70,990	9	55,905	9	40,850	9	25,773	9	10,688	9		9		9		9		9	
1/4	70,676	1/4	55,591	1/4	40,537	1/4	25,459	1/4	10,374	1/4		1/4		1/4		1/4		1/4	
1/2	70,362	1/2	55,277	1/2	40,224	1/2	25,145	1/2	10,060	1/2		1/2		1/2		1/2		1/2	
3/4	70,048	3/4	54,963	3/4	39,910	3/4	24,831	3/4	9,746	3/4		3/4		3/4		3/4		3/4	
10	69,733	10	54,648	10	39,597	10	24,516	10	9,431	10		10		10		10		10	
1/4	69,419	1/4	54,334	1/4	39,283	1/4	24,202	1/4	9,117	1/4		1/4		1/4		1/4		1/4	
1/2	69,105	1/2	54,020	1/2	38,969	1/2	23,888	1/2	8,803	1/2		1/2		1/2		1/2		1/2	
3/4	68,790	3/4	53,706	3/4	38,656	3/4	23,573	3/4	8,489	3/4		3/4		3/4		3/4		3/4	
11	68,476	11	53,391	11	38,342	11	23,259	11	8,174	11		11		11		11		11	
1/4	68,162	1/4	53,077	1/4	38,028	1/4	22,945	1/4	7,860	1/4		1/4		1/4		1/4		1/4	
1/2	67,848	1/2	52,763	1/2	37,713	1/2	22,631	1/2	7,546	1/2		1/2		1/2		1/2		1/2	
3/4	67,533	3/4	52,448	3/4	37,399	3/4	22,316	3/4	7,232	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	183,748	0	173,423	0	163,083	0	152,721	0	140,567	0	125,611	0	110,655	0	95,686
1/4	1/4	1/4	1/4	1/4	183,533	1/4	173,207	1/4	162,867	1/4	152,505	1/4	140,255	1/4	125,299	1/4	110,344	1/4	95,374
1/2	1/2	1/2	1/2	1/2	183,318	1/2	172,992	1/2	162,651	1/2	152,289	1/2	139,944	1/2	124,988	1/2	110,032	1/2	95,062
3/4	3/4	3/4	3/4	3/4	183,103	3/4	172,777	3/4	162,435	3/4	152,073	3/4	139,632	3/4	124,676	3/4	109,720	3/4	94,750
1	1	1	1	1	182,887	1	172,562	1	162,219	1	151,858	1	139,321	1	124,365	1	109,409	1	94,439
1/4	1/4	1/4	1/4	1/4	182,672	1/4	172,347	1/4	162,004	1/4	151,642	1/4	139,009	1/4	124,053	1/4	109,097	1/4	94,127
1/2	1/2	1/2	1/2	1/2	182,457	1/2	172,132	1/2	161,788	1/2	151,426	1/2	138,697	1/2	123,742	1/2	108,786	1/2	93,815
3/4	3/4	3/4	3/4	3/4	191,876	3/4	182,242	3/4	171,917	3/4	151,210	3/4	138,386	3/4	123,430	3/4	108,474	3/4	93,503
2	2	2	2	2	191,752	2	182,027	2	171,702	2	150,994	2	138,074	2	123,118	2	108,162	2	93,192
1/4	1/4	1/4	1/4	1/4	191,629	1/4	181,812	1/4	171,487	1/4	150,778	1/4	137,763	1/4	122,807	1/4	107,851	1/4	92,880
1/2	1/2	1/2	1/2	1/2	191,505	1/2	181,597	1/2	171,271	1/2	150,562	1/2	137,451	1/2	122,495	1/2	107,539	1/2	92,568
3/4	3/4	3/4	3/4	3/4	191,382	3/4	181,382	3/4	171,056	3/4	150,347	3/4	137,140	3/4	122,184	3/4	107,227	3/4	92,256
3	3	3	3	3	191,222	3	181,167	3	170,841	3	150,131	3	136,828	3	121,872	3	106,915	3	91,945
1/4	1/4	1/4	1/4	1/4	191,062	1/4	180,951	1/4	170,626	1/4	149,915	1/4	136,516	1/4	121,561	1/4	106,603	1/4	91,633
1/2	1/2	1/2	1/2	1/2	190,903	1/2	180,736	1/2	170,411	1/2	149,699	1/2	136,205	1/2	121,249	1/2	106,292	1/2	91,321
3/4	3/4	3/4	3/4	3/4	190,743	3/4	180,521	3/4	170,196	3/4	149,483	3/4	135,893	3/4	120,937	3/4	105,980	3/4	91,009
4	4	4	4	4	190,550	4	180,306	4	169,981	4	149,264	4	135,582	4	120,626	4	105,668	4	90,698
1/4	1/4	1/4	1/4	1/4	190,357	1/4	180,091	1/4	169,766	1/4	149,044	1/4	135,270	1/4	120,314	1/4	105,356	1/4	90,386
1/2	1/2	1/2	1/2	1/2	190,165	1/2	179,876	1/2	169,551	1/2	148,825	1/2	134,958	1/2	120,003	1/2	105,044	1/2	90,074
3/4	3/4	3/4	3/4	3/4	189,972	3/4	179,661	3/4	169,335	3/4	148,606	3/4	134,647	3/4	119,691	3/4	104,732	3/4	89,762
5	5	5	5	5	189,760	5	179,446	5	169,120	5	148,375	5	134,335	5	119,379	5	104,420	5	89,451
1/4	1/4	1/4	1/4	1/4	189,549	1/4	179,231	1/4	168,905	1/4	148,144	1/4	134,024	1/4	119,068	1/4	104,108	1/4	89,139
1/2	1/2	1/2	1/2	1/2	189,337	1/2	179,015	1/2	168,690	1/2	147,913	1/2	133,712	1/2	118,756	1/2	103,796	1/2	88,827
3/4	3/4	3/4	3/4	3/4	189,126	3/4	178,800	3/4	168,475	3/4	147,682	3/4	133,401	3/4	118,445	3/4	103,484	3/4	88,515
6	6	6	6	6	188,911	6	178,585	6	168,260	6	147,435	6	133,089	6	118,133	6	103,172	6	88,204
1/4	1/4	1/4	1/4	1/4	188,696	1/4	178,370	1/4	168,045	1/4	147,188	1/4	132,777	1/4	117,822	1/4	102,860	1/4	87,892
1/2	1/2	1/2	1/2	1/2	188,481	1/2	178,155	1/2	167,830	1/2	146,941	1/2	132,466	1/2	117,510	1/2	102,548	1/2	87,580
3/4	3/4	3/4	3/4	3/4	188,266	3/4	177,940	3/4	167,615	3/4	146,693	3/4	132,154	3/4	117,198	3/4	102,236	3/4	87,268
7	7	7	7	7	188,051	7	177,725	7	167,399	7	146,431	7	131,843	7	116,887	7	101,924	7	86,956
1/4	1/4	1/4	1/4	1/4	187,836	1/4	177,510	1/4	167,184	1/4	146,168	1/4	131,531	1/4	116,575	1/4	101,612	1/4	86,644
1/2	1/2	1/2	1/2	1/2	187,621	1/2	177,295	1/2	166,968	1/2	145,905	1/2	131,220	1/2	116,264	1/2	101,300	1/2	86,332
3/4	3/4	3/4	3/4	3/4	187,405	3/4	177,079	3/4	166,753	3/4	145,643	3/4	130,908	3/4	115,952	3/4	100,988	3/4	86,020
8	8	8	8	8	187,190	8	176,864	8	166,537	8	145,364	8	130,596	8	115,640	8	100,676	8	85,708
1/4	1/4	1/4	1/4	1/4	186,975	1/4	176,649	1/4	166,321	1/4	145,086	1/4	130,285	1/4	115,329	1/4	100,364	1/4	85,396
1/2	1/2	1/2	1/2	1/2	186,760	1/2	176,434	1/2	166,105	1/2	144,807	1/2	129,973	1/2	115,017	1/2	100,052	1/2	85,083
3/4	3/4	3/4	3/4	3/4	186,545	3/4	176,219	3/4	165,889	3/4	144,529	3/4	129,662	3/4	114,706	3/4	99,740	3/4	84,771
9	9	9	9	9	186,329	9	176,004	9	165,673	9	144,234	9	129,350	9	114,394	9	99,428	9	84,459
1/4	1/4	1/4	1/4	1/4	186,114	1/4	175,789	1/4	165,457	1/4	143,940	1/4	129,038	1/4	114,083	1/4	99,116	1/4	84,147
1/2	1/2	1/2	1/2	1/2	185,899	1/2	175,574	1/2	165,242	1/2	143,645	1/2	128,727	1/2	113,771	1/2	98,804	1/2	83,835
3/4	3/4	3/4	3/4	3/4	185,684	3/4	175,359	3/4	165,026	3/4	143,351	3/4	128,415	3/4	113,459	3/4	98,492	3/4	83,523
10	10	10	10	10	185,469	10	175,143	10	164,810	10	143,044	10	128,104	10	113,148	10	98,180	10	83,211
1/4	1/4	1/4	1/4	1/4	185,254	1/4	174,928	1/4	164,594	1/4	142,737	1/4	127,792	1/4	112,836	1/4	97,868	1/4	82,899
1/2	1/2	1/2	1/2	1/2	185,039	1/2	174,713	1/2	164,378	1/2	142,430	1/2	127,481	1/2	112,525	1/2	97,556	1/2	82,587
3/4	3/4	3/4	3/4	3/4	184,823	3/4	174,498	3/4	164,162	3/4	142,123	3/4	127,169	3/4	112,213	3/4	97,244	3/4	82,275
11	11	11	11	11	184,608	11	174,283	11	163,946	11	141,812	11	126,857	11	111,902	11	96,933	11	81,963
1/4	1/4	1/4	1/4	1/4	184,393	1/4	174,068	1/4	163,730	1/4	141,501	1/4	126,546	1/4	111,590	1/4	96,621	1/4	81,651
1/2	1/2	1/2	1/2	1/2	184,178	1/2	173,853	1/2	163,515	1/2	141,190	1/2	126,234	1/2	111,278	1/2	96,309	1/2	81,339
3/4	3/4	3/4	3/4	3/4	183,963	3/4	173,638	3/4	163,299	3/4	140,878	3/4	125,923	3/4	110,967	3/4	95,997	3/4	81,027

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3031"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	80,715	0	65,812	0	51,094	0	36,520	0	21,554	0	6,567	0		0		0		0	
1/4	80,403	1/4	65,502	1/4	50,791	1/4	36,212	1/4	21,242	1/4	6,255	1/4		1/4		1/4		1/4	
1/2	80,090	1/2	65,192	1/2	50,489	1/2	35,904	1/2	20,930	1/2	5,942	1/2		1/2		1/2		1/2	
3/4	79,778	3/4	64,882	3/4	50,187	3/4	35,596	3/4	20,618	3/4	5,630	3/4		3/4		3/4		3/4	
1	79,466	1	64,572	1	49,885	1	35,284	1	20,306	1	5,318	1		1		1		1	
1/4	79,154	1/4	64,262	1/4	49,582	1/4	34,973	1/4	19,994	1/4	5,005	1/4		1/4		1/4		1/4	
1/2	78,842	1/2	63,952	1/2	49,280	1/2	34,661	1/2	19,682	1/2	4,693	1/2		1/2		1/2		1/2	
3/4	78,530	3/4	63,642	3/4	48,978	3/4	34,349	3/4	19,370	3/4	4,381	3/4		3/4		3/4		3/4	
2	78,219	2	63,331	2	48,676	2	34,037	2	19,057	2	4,069	2		2		2		2	
1/4	77,908	1/4	63,020	1/4	48,373	1/4	33,725	1/4	18,745	1/4	3,758	1/4		1/4		1/4		1/4	
1/2	77,597	1/2	62,709	1/2	48,071	1/2	33,413	1/2	18,433	1/2	3,446	1/2		1/2		1/2		1/2	
3/4	77,286	3/4	62,398	3/4	47,769	3/4	33,101	3/4	18,121	3/4	3,134	3/4		3/4		3/4		3/4	
3	76,976	3	62,086	3	47,467	3	32,789	3	17,809	3	2,842	3		3		3		3	
1/4	76,666	1/4	61,774	1/4	47,165	1/4	32,477	1/4	17,497	1/4	2,550	1/4		1/4		1/4		1/4	
1/2	76,356	1/2	61,463	1/2	46,863	1/2	32,165	1/2	17,185	1/2	2,258	1/2		1/2		1/2		1/2	
3/4	76,045	3/4	61,151	3/4	46,561	3/4	31,852	3/4	16,873	3/4	1,965	3/4		3/4		3/4		3/4	
4	75,735	4	60,839	4	46,260	4	31,540	4	16,560	4	1,731	4		4		4		4	
1/4	75,425	1/4	60,527	1/4	45,958	1/4	31,228	1/4	16,248	1/4	1,496	1/4		1/4		1/4		1/4	
1/2	75,115	1/2	60,216	1/2	45,657	1/2	30,916	1/2	15,936	1/2	1,262	1/2		1/2		1/2		1/2	
3/4	74,805	3/4	59,904	3/4	45,355	3/4	30,604	3/4	15,624	3/4	1,027	3/4		3/4		3/4		3/4	
5	74,495	5	59,595	5	45,052	5	30,292	5	15,312	5		5		5		5		5	
1/4	74,185	1/4	59,287	1/4	44,749	1/4	29,980	1/4	15,000	1/4		1/4		1/4		1/4		1/4	
1/2	73,875	1/2	58,978	1/2	44,446	1/2	29,668	1/2	14,688	1/2		1/2		1/2		1/2		1/2	
3/4	73,565	3/4	58,669	3/4	44,143	3/4	29,356	3/4	14,376	3/4		3/4		3/4		3/4		3/4	
6	73,255	6	58,364	6	43,838	6	29,044	6	14,063	6		6		6		6		6	
1/4	72,945	1/4	58,059	1/4	43,533	1/4	28,732	1/4	13,751	1/4		1/4		1/4		1/4		1/4	
1/2	72,634	1/2	57,753	1/2	43,228	1/2	28,420	1/2	13,439	1/2		1/2		1/2		1/2		1/2	
3/4	72,324	3/4	57,448	3/4	42,924	3/4	28,108	3/4	13,127	3/4		3/4		3/4		3/4		3/4	
7	72,014	7	57,144	7	42,619	7	27,796	7	12,815	7		7		7		7		7	
1/4	71,704	1/4	56,840	1/4	42,314	1/4	27,484	1/4	12,503	1/4		1/4		1/4		1/4		1/4	
1/2	71,394	1/2	56,536	1/2	42,009	1/2	27,172	1/2	12,191	1/2		1/2		1/2		1/2		1/2	
3/4	71,084	3/4	56,232	3/4	41,704	3/4	26,860	3/4	11,879	3/4		3/4		3/4		3/4		3/4	
8	70,774	8	55,930	8	41,400	8	26,548	8	11,566	8		8		8		8		8	
1/4	70,464	1/4	55,628	1/4	41,095	1/4	26,236	1/4	11,254	1/4		1/4		1/4		1/4		1/4	
1/2	70,154	1/2	55,325	1/2	40,790	1/2	25,924	1/2	10,941	1/2		1/2		1/2		1/2		1/2	
3/4	69,844	3/4	55,023	3/4	40,485	3/4	25,612	3/4	10,629	3/4		3/4		3/4		3/4		3/4	
9	69,533	9	54,721	9	40,180	9	25,300	9	10,316	9		9		9		9		9	
1/4	69,223	1/4	54,419	1/4	39,876	1/4	24,988	1/4	10,004	1/4		1/4		1/4		1/4		1/4	
1/2	68,913	1/2	54,116	1/2	39,571	1/2	24,676	1/2	9,691	1/2		1/2		1/2		1/2		1/2	
3/4	68,603	3/4	53,814	3/4	39,266	3/4	24,363	3/4	9,379	3/4		3/4		3/4		3/4		3/4	
10	68,293	10	53,512	10	38,961	10	24,051	10	9,066	10		10		10		10		10	
1/4	67,983	1/4	53,210	1/4	38,656	1/4	23,739	1/4	8,754	1/4		1/4		1/4		1/4		1/4	
1/2	67,673	1/2	52,907	1/2	38,352	1/2	23,427	1/2	8,441	1/2		1/2		1/2		1/2		1/2	
3/4	67,363	3/4	52,605	3/4	38,047	3/4	23,115	3/4	8,129	3/4		3/4		3/4		3/4		3/4	
11	67,053	11	52,303	11	37,742	11	22,803	11	7,816	11		11		11		11		11	
1/4	66,743	1/4	52,001	1/4	37,437	1/4	22,491	1/4	7,504	1/4		1/4		1/4		1/4		1/4	
1/2	66,432	1/2	51,698	1/2	37,132	1/2	22,179	1/2	7,192	1/2		1/2		1/2		1/2		1/2	
3/4	66,122	3/4	51,396	3/4	36,828	3/4	21,867	3/4	6,879	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	185,002	0	174,677	0	164,337	0	153,975	0	141,903	0	126,913	0	111,924	0	96,920		
1/4	1/4	1/4	184,787	1/4	174,461	1/4	164,121	1/4	153,759	1/4	141,590	1/4	126,601	1/4	111,612	1/4	96,607		
1/2	1/2	1/2	184,572	1/2	174,246	1/2	163,905	1/2	153,543	1/2	141,278	1/2	126,289	1/2	111,300	1/2	96,294		
3/4	3/4	3/4	184,357	3/4	174,031	3/4	163,689	3/4	153,327	3/4	140,966	3/4	125,977	3/4	110,987	3/4	95,982		
1	1	1	184,142	1	173,816	1	163,474	1	153,111	1	140,654	1	125,664	1	110,675	1	95,669		
1/4	1/4	1/4	183,927	1/4	173,601	1/4	163,258	1/4	152,896	1/4	140,341	1/4	125,352	1/4	110,363	1/4	95,356		
1/2	1/2	1/2	183,711	1/2	173,386	1/2	163,042	1/2	152,680	1/2	140,029	1/2	125,040	1/2	110,050	1/2	95,044		
3/4	3/4	3/4	183,496	3/4	173,171	3/4	162,826	3/4	152,464	3/4	139,717	3/4	124,728	3/4	109,738	3/4	94,731		
2	2	2	192,915	2	183,281	2	172,956	2	162,610	2	152,248	2	139,405	2	124,415	2	109,426	2	94,418
1/4	1/4	1/4	192,792	1/4	183,066	1/4	172,740	1/4	162,394	1/4	152,032	1/4	139,092	1/4	124,103	1/4	109,113	1/4	94,105
1/2	1/2	1/2	192,668	1/2	182,851	1/2	172,525	1/2	162,178	1/2	151,816	1/2	138,780	1/2	123,791	1/2	108,801	1/2	93,793
3/4	3/4	3/4	192,545	3/4	182,636	3/4	172,310	3/4	161,962	3/4	151,600	3/4	138,468	3/4	123,478	3/4	108,489	3/4	93,480
3	3	3	192,421	3	182,421	3	172,095	3	161,747	3	151,384	3	138,155	3	123,166	3	108,176	3	93,167
1/4	1/4	1/4	192,262	1/4	182,206	1/4	171,880	1/4	161,531	1/4	151,168	1/4	137,843	1/4	122,854	1/4	107,864	1/4	92,855
1/2	1/2	1/2	192,102	1/2	181,991	1/2	171,665	1/2	161,315	1/2	150,953	1/2	137,531	1/2	122,542	1/2	107,551	1/2	92,542
3/4	3/4	3/4	191,942	3/4	181,775	3/4	171,450	3/4	161,099	3/4	150,737	3/4	137,219	3/4	122,229	3/4	107,238	3/4	92,229
4	4	4	191,783	4	181,560	4	171,235	4	160,883	4	150,521	4	136,906	4	121,917	4	106,926	4	91,917
1/4	1/4	1/4	191,590	1/4	181,345	1/4	171,019	1/4	160,667	1/4	150,301	1/4	136,594	1/4	121,605	1/4	106,613	1/4	91,604
1/2	1/2	1/2	191,397	1/2	181,130	1/2	170,804	1/2	160,451	1/2	150,082	1/2	136,282	1/2	121,292	1/2	106,301	1/2	91,291
3/4	3/4	3/4	191,204	3/4	180,915	3/4	170,589	3/4	160,235	3/4	149,863	3/4	135,970	3/4	120,980	3/4	105,988	3/4	90,979
5	5	5	191,011	5	180,700	5	170,374	5	160,020	5	149,643	5	135,657	5	120,668	5	105,675	5	90,666
1/4	1/4	1/4	190,800	1/4	180,485	1/4	170,159	1/4	159,804	1/4	149,412	1/4	135,345	1/4	120,356	1/4	105,362	1/4	90,353
1/2	1/2	1/2	190,588	1/2	180,270	1/2	169,944	1/2	159,588	1/2	149,181	1/2	135,033	1/2	120,043	1/2	105,050	1/2	90,040
3/4	3/4	3/4	190,376	3/4	180,054	3/4	169,729	3/4	159,372	3/4	148,950	3/4	134,720	3/4	119,731	3/4	104,737	3/4	89,728
6	6	6	190,165	6	179,839	6	169,514	6	159,156	6	148,719	6	134,408	6	119,419	6	104,424	6	89,415
1/4	1/4	1/4	189,950	1/4	179,624	1/4	169,299	1/4	158,940	1/4	148,472	1/4	134,096	1/4	119,107	1/4	104,112	1/4	89,102
1/2	1/2	1/2	189,735	1/2	179,409	1/2	169,083	1/2	158,724	1/2	148,225	1/2	133,784	1/2	118,794	1/2	103,799	1/2	88,790
3/4	3/4	3/4	189,520	3/4	179,194	3/4	168,868	3/4	158,508	3/4	147,977	3/4	133,471	3/4	118,482	3/4	103,486	3/4	88,477
7	7	7	189,305	7	178,979	7	168,653	7	158,292	7	147,730	7	133,159	7	118,170	7	103,174	7	88,164
1/4	1/4	1/4	189,090	1/4	178,764	1/4	168,438	1/4	158,077	1/4	147,467	1/4	132,847	1/4	117,857	1/4	102,861	1/4	87,852
1/2	1/2	1/2	188,875	1/2	178,549	1/2	168,222	1/2	157,861	1/2	147,204	1/2	132,534	1/2	117,545	1/2	102,548	1/2	87,539
3/4	3/4	3/4	188,660	3/4	178,334	3/4	168,007	3/4	157,645	3/4	146,941	3/4	132,222	3/4	117,233	3/4	102,236	3/4	87,226
8	8	8	188,445	8	178,118	8	167,791	8	157,429	8	146,678	8	131,910	8	116,921	8	101,923	8	86,913
1/4	1/4	1/4	188,230	1/4	177,903	1/4	167,575	1/4	157,213	1/4	146,399	1/4	131,598	1/4	116,608	1/4	101,610	1/4	86,601
1/2	1/2	1/2	188,014	1/2	177,688	1/2	167,359	1/2	156,997	1/2	146,120	1/2	131,285	1/2	116,296	1/2	101,297	1/2	86,288
3/4	3/4	3/4	187,799	3/4	177,473	3/4	167,144	3/4	156,781	3/4	145,841	3/4	130,973	3/4	115,984	3/4	100,985	3/4	85,975
9	9	9	187,584	9	177,258	9	166,928	9	156,565	9	145,561	9	130,661	9	115,671	9	100,672	9	85,663
1/4	1/4	1/4	187,369	1/4	177,043	1/4	166,712	1/4	156,350	1/4	145,266	1/4	130,349	1/4	115,359	1/4	100,359	1/4	85,350
1/2	1/2	1/2	187,154	1/2	176,828	1/2	166,496	1/2	156,134	1/2	144,971	1/2	130,036	1/2	115,047	1/2	100,047	1/2	85,037
3/4	3/4	3/4	186,938	3/4	176,613	3/4	166,280	3/4	155,918	3/4	144,676	3/4	129,724	3/4	114,735	3/4	99,734	3/4	84,725
10	10	10	186,723	10	176,397	10	166,064	10	155,702	10	144,381	10	129,412	10	114,422	10	99,421	10	84,412
1/4	1/4	1/4	186,508	1/4	176,182	1/4	165,848	1/4	155,486	1/4	144,073	1/4	129,099	1/4	114,110	1/4	99,109	1/4	84,099
1/2	1/2	1/2	186,293	1/2	175,967	1/2	165,632	1/2	155,270	1/2	143,766	1/2	128,787	1/2	113,798	1/2	98,796	1/2	83,787
3/4	3/4	3/4	186,078	3/4	175,752	3/4	165,416	3/4	155,054	3/4	143,458	3/4	128,475	3/4	113,486	3/4	98,483	3/4	83,474
11	11	11	185,863	11	175,537	11	165,201	11	154,838	11	143,151	11	128,163	11	113,173	11	98,170	11	83,161
1/4	1/4	1/4	185,648	1/4	175,322	1/4	164,985	1/4	154,623	1/4	142,839	1/4	127,850	1/4	112,861	1/4	97,858	1/4	82,848
1/2	1/2	1/2	185,432	1/2	175,107	1/2	164,769	1/2	154,407	1/2	142,527	1/2	127,538	1/2	112,549	1/2	97,545	1/2	82,536
3/4	3/4	3/4	185,217	3/4	174,892	3/4	164,553	3/4	154,191	3/4	142,215	3/4	127,226	3/4	112,236	3/4	97,232	3/4	82,223

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3031"

**3 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	81,910	0	66,901	0	51,892	0	36,897	0	21,891	0	6,882	0		0		0		0	
1/4	81,598	1/4	66,588	1/4	51,579	1/4	36,585	1/4	21,579	1/4	6,570	1/4		1/4		1/4		1/4	
1/2	81,285	1/2	66,276	1/2	51,266	1/2	36,273	1/2	21,266	1/2	6,257	1/2		1/2		1/2		1/2	
3/4	80,972	3/4	65,963	3/4	50,954	3/4	35,961	3/4	20,953	3/4	5,944	3/4		3/4		3/4		3/4	
1	80,660	1	65,650	1	50,641	1	35,648	1	20,641	1	5,632	1		1		1		1	
1/4	80,347	1/4	65,338	1/4	50,328	1/4	35,336	1/4	20,328	1/4	5,319	1/4		1/4		1/4		1/4	
1/2	80,034	1/2	65,025	1/2	50,015	1/2	35,024	1/2	20,015	1/2	5,007	1/2		1/2		1/2		1/2	
3/4	79,721	3/4	64,712	3/4	49,703	3/4	34,711	3/4	19,702	3/4	4,694	3/4		3/4		3/4		3/4	
2	79,409	2	64,399	2	49,390	2	34,399	2	19,390	2	4,382	2		2		2		2	
1/4	79,096	1/4	64,087	1/4	49,077	1/4	34,086	1/4	19,077	1/4	4,070	1/4		1/4		1/4		1/4	
1/2	78,783	1/2	63,774	1/2	48,765	1/2	33,773	1/2	18,764	1/2	3,759	1/2		1/2		1/2		1/2	
3/4	78,471	3/4	63,461	3/4	48,452	3/4	33,461	3/4	18,452	3/4	3,447	3/4		3/4		3/4		3/4	
3	78,158	3	63,149	3	48,139	3	33,148	3	18,139	3	3,135	3		3		3		3	
1/4	77,845	1/4	62,836	1/4	47,827	1/4	32,835	1/4	17,826	1/4	2,843	1/4		1/4		1/4		1/4	
1/2	77,533	1/2	62,523	1/2	47,514	1/2	32,523	1/2	17,514	1/2	2,550	1/2		1/2		1/2		1/2	
3/4	77,220	3/4	62,211	3/4	47,202	3/4	32,210	3/4	17,201	3/4	2,258	3/4		3/4		3/4		3/4	
4	76,907	4	61,898	4	46,889	4	31,897	4	16,888	4	1,966	4		4		4		4	
1/4	76,595	1/4	61,585	1/4	46,577	1/4	31,585	1/4	16,576	1/4	1,731	1/4		1/4		1/4		1/4	
1/2	76,282	1/2	61,272	1/2	46,264	1/2	31,272	1/2	16,263	1/2	1,497	1/2		1/2		1/2		1/2	
3/4	75,969	3/4	60,960	3/4	45,952	3/4	30,959	3/4	15,950	3/4	1,262	3/4		3/4		3/4		3/4	
5	75,656	5	60,647	5	45,639	5	30,646	5	15,638	5	1,028	5		5		5		5	
1/4	75,344	1/4	60,334	1/4	45,327	1/4	30,334	1/4	15,325	1/4		1/4		1/4		1/4		1/4	
1/2	75,031	1/2	60,022	1/2	45,015	1/2	30,021	1/2	15,012	1/2		1/2		1/2		1/2		1/2	
3/4	74,718	3/4	59,709	3/4	44,702	3/4	29,708	3/4	14,700	3/4		3/4		3/4		3/4		3/4	
6	74,406	6	59,396	6	44,390	6	29,396	6	14,387	6		6		6		6		6	
1/4	74,093	1/4	59,084	1/4	44,078	1/4	29,083	1/4	14,074	1/4		1/4		1/4		1/4		1/4	
1/2	73,780	1/2	58,771	1/2	43,766	1/2	28,770	1/2	13,761	1/2		1/2		1/2		1/2		1/2	
3/4	73,468	3/4	58,458	3/4	43,453	3/4	28,458	3/4	13,449	3/4		3/4		3/4		3/4		3/4	
7	73,155	7	58,146	7	43,141	7	28,145	7	13,136	7		7		7		7		7	
1/4	72,842	1/4	57,833	1/4	42,829	1/4	27,832	1/4	12,823	1/4		1/4		1/4		1/4		1/4	
1/2	72,529	1/2	57,520	1/2	42,517	1/2	27,520	1/2	12,511	1/2		1/2		1/2		1/2		1/2	
3/4	72,217	3/4	57,207	3/4	42,205	3/4	27,207	3/4	12,198	3/4		3/4		3/4		3/4		3/4	
8	71,904	8	56,895	8	41,892	8	26,894	8	11,885	8		8		8		8		8	
1/4	71,591	1/4	56,582	1/4	41,580	1/4	26,582	1/4	11,573	1/4		1/4		1/4		1/4		1/4	
1/2	71,279	1/2	56,269	1/2	41,268	1/2	26,269	1/2	11,260	1/2		1/2		1/2		1/2		1/2	
3/4	70,966	3/4	55,957	3/4	40,956	3/4	25,956	3/4	10,947	3/4		3/4		3/4		3/4		3/4	
9	70,653	9	55,644	9	40,644	9	25,644	9	10,635	9		9		9		9		9	
1/4	70,341	1/4	55,331	1/4	40,331	1/4	25,331	1/4	10,322	1/4		1/4		1/4		1/4		1/4	
1/2	70,028	1/2	55,019	1/2	40,019	1/2	25,018	1/2	10,009	1/2		1/2		1/2		1/2		1/2	
3/4	69,715	3/4	54,706	3/4	39,707	3/4	24,705	3/4	9,697	3/4		3/4		3/4		3/4		3/4	
10	69,403	10	54,393	10	39,395	10	24,393	10	9,384	10		10		10		10		10	
1/4	69,090	1/4	54,080	1/4	39,083	1/4	24,080	1/4	9,071	1/4		1/4		1/4		1/4		1/4	
1/2	68,777	1/2	53,768	1/2	38,770	1/2	23,767	1/2	8,758	1/2		1/2		1/2		1/2		1/2	
3/4	68,464	3/4	53,455	3/4	38,458	3/4	23,455	3/4	8,446	3/4		3/4		3/4		3/4		3/4	
11	68,152	11	53,142	11	38,146	11	23,142	11	8,133	11		11		11		11		11	
1/4	67,839	1/4	52,830	1/4	37,834	1/4	22,829	1/4	7,820	1/4		1/4		1/4		1/4		1/4	
1/2	67,526	1/2	52,517	1/2	37,522	1/2	22,517	1/2	7,508	1/2		1/2		1/2		1/2		1/2	
3/4	67,214	3/4	52,204	3/4	37,209	3/4	22,204	3/4	7,195	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 1/4"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3031"

STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	4,282	0	3,127	0	1,973	0	818	0		0		0		0	
1/4		1/4		1/4	4,258	1/4	3,103	1/4	1,949	1/4	794	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,234	1/2	3,079	1/2	1,925	1/2	770	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,210	3/4	3,054	3/4	1,901	3/4	746	3/4		3/4		3/4		3/4	
1		1		1	4,185	1	3,030	1	1,877	1	722	1		1		1		1	
1/4		1/4		1/4	4,161	1/4	3,006	1/4	1,853	1/4	698	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,137	1/2	2,982	1/2	1,829	1/2	674	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,113	3/4	2,958	3/4	1,805	3/4	650	3/4		3/4		3/4		3/4	
2		2		2	4,089	2	2,934	2	1,780	2	626	2		2		2		2	
1/4		1/4		1/4	4,065	1/4	2,910	1/4	1,756	1/4	602	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,140	1/2	4,041	1/2	2,886	1/2	578	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,128	3/4	4,017	3/4	2,862	3/4	553	3/4		3/4		3/4		3/4	
3		3		3	5,117	3	3,993	3	2,838	3	529	3		3		3		3	
1/4		1/4		1/4	5,105	1/4	3,969	1/4	2,814	1/4	505	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,093	1/2	3,945	1/2	2,790	1/2	481	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,070	3/4	3,921	3/4	2,766	3/4	457	3/4		3/4		3/4		3/4	
4		4		4	5,046	4	3,897	4	2,742	4	433	4		4		4		4	
1/4		1/4		1/4	5,023	1/4	3,873	1/4	2,718	1/4	409	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,999	1/2	3,849	1/2	2,694	1/2	385	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,975	3/4	3,825	3/4	2,670	3/4	361	3/4		3/4		3/4		3/4	
5		5		5	4,952	5	3,800	5	2,646	5	337	5		5		5		5	
1/4		1/4		1/4	4,928	1/4	3,776	1/4	2,622	1/4	313	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,904	1/2	3,752	1/2	2,597	1/2	289	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,881	3/4	3,728	3/4	2,574	3/4	265	3/4		3/4		3/4		3/4	
6		6		6	4,857	6	3,704	6	2,550	6	241	6		6		6		6	
1/4		1/4		1/4	4,833	1/4	3,680	1/4	2,526	1/4	217	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,810	1/2	3,656	1/2	2,502	1/2	193	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,786	3/4	3,632	3/4	2,478	3/4	168	3/4		3/4		3/4		3/4	
7		7		7	4,762	7	3,608	7	2,454	7	144	7		7		7		7	
1/4		1/4		1/4	4,739	1/4	3,584	1/4	2,430	1/4	120	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,715	1/2	3,560	1/2	2,406	1/2	96	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,691	3/4	3,536	3/4	2,382	3/4	72	3/4		3/4		3/4		3/4	
8		8		8	4,667	8	3,512	8	2,358	8	1,203	8		8		8		8	
1/4		1/4		1/4	4,643	1/4	3,488	1/4	2,334	1/4	1,179	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,619	1/2	3,464	1/2	2,310	1/2	1,155	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,595	3/4	3,440	3/4	2,286	3/4	1,131	3/4		3/4		3/4		3/4	
9		9		9	4,570	9	3,415	9	2,262	9	1,107	9		9		9		9	
1/4		1/4		1/4	4,546	1/4	3,391	1/4	2,238	1/4	1,083	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,522	1/2	3,367	1/2	2,214	1/2	1,059	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,498	3/4	3,343	3/4	2,190	3/4	1,035	3/4		3/4		3/4		3/4	
10		10		10	4,474	10	3,319	10	2,165	10	1,011	10		10		10		10	
1/4		1/4		1/4	4,450	1/4	3,295	1/4	2,141	1/4	987	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,426	1/2	3,271	1/2	2,117	1/2	963	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,402	3/4	3,247	3/4	2,093	3/4	938	3/4		3/4		3/4		3/4	
11		11		11	4,378	11	3,223	11	2,069	11	914	11		11		11		11	
1/4		1/4		1/4	4,354	1/4	3,199	1/4	2,045	1/4	890	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,330	1/2	3,175	1/2	2,021	1/2	866	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,306	3/4	3,151	3/4	1,997	3/4	842	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 12/10/2019 CL
CALCULATED: 12/11/2019 CL
PRINTED: 12/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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