



BARGE "NGL 3006"

ULLAGE TRIM TABLE

FORMERLY "HSM 1002"

	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	- 00-1/2	00-1/2
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	- 00-1/2	00-1/2
2 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
2 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
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 253'-09"

January 31, 2018

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

<http://www.pmacorp.net>



BARGE "NGL 3006"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,962.67	0	4,618.44	0	4,258.23	0	3,895.87	0	3,533.52	0	3,171.16	0	2,808.80	0	2,446.38
1/4	1/4		1/4		4,955.67	1/4	4,611.06	1/4	4,250.68	1/4	3,888.32	1/4	3,525.97	1/4	3,163.61	1/4	2,801.25	1/4	2,438.83
1/2	1/2		1/2		4,948.68	1/2	4,603.67	1/2	4,243.13	1/2	3,880.78	1/2	3,518.42	1/2	3,156.06	1/2	2,793.70	1/2	2,431.28
3/4	3/4		3/4		4,941.68	3/4	4,596.29	3/4	4,235.58	3/4	3,873.23	3/4	3,510.87	3/4	3,148.51	3/4	2,786.16	3/4	2,423.72
1		1	5,244.15	1	4,934.68	1	4,588.90	1	4,228.03	1	3,865.68	1	3,503.32	1	3,140.96	1	2,778.61	1	2,416.17
1/4	1/4		5,239.82	1/4	4,927.65	1/4	4,581.49	1/4	4,220.48	1/4	3,858.13	1/4	3,495.77	1/4	3,133.41	1/4	2,771.06	1/4	2,408.62
1/2	1/2		5,235.49	1/2	4,920.63	1/2	4,574.07	1/2	4,212.94	1/2	3,850.58	1/2	3,488.22	1/2	3,125.87	1/2	2,763.51	1/2	2,401.07
3/4	3/4		5,231.15	3/4	4,913.60	3/4	4,566.66	3/4	4,205.39	3/4	3,843.03	3/4	3,480.67	3/4	3,118.32	3/4	2,755.96	3/4	2,393.52
2		2	5,226.82	2	4,906.57	2	4,559.24	2	4,197.84	2	3,835.48	2	3,473.12	2	3,110.77	2	2,748.41	2	2,385.96
1/4	1/4		5,221.26	1/4	4,899.51	1/4	4,551.80	1/4	4,190.29	1/4	3,827.93	1/4	3,465.57	1/4	3,103.22	1/4	2,740.86	1/4	2,378.41
1/2	1/2		5,215.70	1/2	4,892.46	1/2	4,544.36	1/2	4,182.74	1/2	3,820.38	1/2	3,458.03	1/2	3,095.67	1/2	2,733.31	1/2	2,370.86
3/4	3/4		5,210.13	3/4	4,885.40	3/4	4,536.91	3/4	4,175.19	3/4	3,812.83	3/4	3,450.48	3/4	3,088.12	3/4	2,725.76	3/4	2,363.31
3		3	5,204.57	3	4,878.34	3	4,529.47	3	4,167.64	3	3,805.28	3	3,442.93	3	3,080.57	3	2,718.21	3	2,355.76
1/4	1/4		5,198.54	1/4	4,871.26	1/4	4,521.99	1/4	4,160.09	1/4	3,797.74	1/4	3,435.38	1/4	3,073.02	1/4	2,710.66	1/4	2,348.20
1/2	1/2		5,192.52	1/2	4,864.17	1/2	4,514.52	1/2	4,152.54	1/2	3,790.19	1/2	3,427.83	1/2	3,065.47	1/2	2,703.12	1/2	2,340.65
3/4	3/4		5,186.49	3/4	4,857.08	3/4	4,507.04	3/4	4,144.99	3/4	3,782.64	3/4	3,420.28	3/4	3,057.92	3/4	2,695.57	3/4	2,333.10
4		4	5,180.46	4	4,850.00	4	4,499.57	4	4,137.44	4	3,775.09	4	3,412.73	4	3,050.37	4	2,688.02	4	2,325.55
1/4	1/4		5,173.81	1/4	4,842.88	1/4	4,492.06	1/4	4,129.90	1/4	3,767.54	1/4	3,405.18	1/4	3,042.83	1/4	2,680.47	1/4	2,318.00
1/2	1/2		5,167.15	1/2	4,835.76	1/2	4,484.56	1/2	4,122.35	1/2	3,759.99	1/2	3,397.63	1/2	3,035.28	1/2	2,672.92	1/2	2,310.44
3/4	3/4		5,160.50	3/4	4,828.64	3/4	4,477.06	3/4	4,114.80	3/4	3,752.44	3/4	3,390.08	3/4	3,027.73	3/4	2,665.37	3/4	2,302.89
5		5	5,153.85	5	4,821.53	5	4,469.55	5	4,107.25	5	3,744.89	5	3,382.53	5	3,020.18	5	2,657.82	5	2,295.34
1/4	1/4		5,147.14	1/4	4,814.38	1/4	4,462.02	1/4	4,099.70	1/4	3,737.34	1/4	3,374.99	1/4	3,012.63	1/4	2,650.27	1/4	2,287.79
1/2	1/2		5,140.43	1/2	4,807.23	1/2	4,454.48	1/2	4,092.15	1/2	3,729.79	1/2	3,367.44	1/2	3,005.08	1/2	2,642.72	1/2	2,280.24
3/4	3/4		5,133.72	3/4	4,800.09	3/4	4,446.94	3/4	4,084.60	3/4	3,722.24	3/4	3,359.89	3/4	2,997.53	3/4	2,635.17	3/4	2,272.69
6		6	5,127.01	6	4,792.94	6	4,439.41	6	4,077.05	6	3,714.70	6	3,352.34	6	2,989.98	6	2,627.62	6	2,265.13
1/4	1/4		5,120.26	1/4	4,785.76	1/4	4,431.86	1/4	4,069.50	1/4	3,707.15	1/4	3,344.79	1/4	2,982.43	1/4	2,620.07	1/4	2,257.58
1/2	1/2		5,113.51	1/2	4,778.59	1/2	4,424.31	1/2	4,061.95	1/2	3,699.60	1/2	3,337.24	1/2	2,974.88	1/2	2,612.52	1/2	2,250.03
3/4	3/4		5,106.77	3/4	4,771.41	3/4	4,416.76	3/4	4,054.40	3/4	3,692.05	3/4	3,329.69	3/4	2,967.33	3/4	2,604.97	3/4	2,242.48
7		7	5,100.02	7	4,764.23	7	4,409.21	7	4,046.86	7	3,684.50	7	3,322.14	7	2,959.79	7	2,597.42	7	2,234.93
1/4	1/4		5,093.24	1/4	4,757.03	1/4	4,401.66	1/4	4,039.31	1/4	3,676.95	1/4	3,314.59	1/4	2,952.24	1/4	2,589.87	1/4	2,227.37
1/2	1/2		5,086.46	1/2	4,749.82	1/2	4,394.11	1/2	4,031.76	1/2	3,669.40	1/2	3,307.04	1/2	2,944.69	1/2	2,582.31	1/2	2,219.82
3/4	3/4		5,079.68	3/4	4,742.61	3/4	4,386.57	3/4	4,024.21	3/4	3,661.85	3/4	3,299.49	3/4	2,937.14	3/4	2,574.76	3/4	2,212.27
8		8	5,072.90	8	4,735.41	8	4,379.02	8	4,016.66	8	3,654.30	8	3,291.95	8	2,929.59	8	2,567.21	8	2,204.72
1/4	1/4		5,066.09	1/4	4,728.14	1/4	4,371.47	1/4	4,009.11	1/4	3,646.75	1/4	3,284.40	1/4	2,922.04	1/4	2,559.66	1/4	2,197.17
1/2	1/2		5,059.28	1/2	4,720.88	1/2	4,363.92	1/2	4,001.56	1/2	3,639.20	1/2	3,276.85	1/2	2,914.49	1/2	2,552.11	1/2	2,189.61
3/4	3/4		5,052.48	3/4	4,713.61	3/4	4,356.37	3/4	3,994.01	3/4	3,631.66	3/4	3,269.30	3/4	2,906.94	3/4	2,544.55	3/4	2,182.06
9		9	5,045.67	9	4,706.35	9	4,348.82	9	3,986.46	9	3,624.11	9	3,261.75	9	2,899.39	9	2,537.00	9	2,174.51
1/4	1/4		5,038.83	1/4	4,699.05	1/4	4,341.27	1/4	3,978.91	1/4	3,616.56	1/4	3,254.20	1/4	2,891.84	1/4	2,529.45	1/4	2,166.96
1/2	1/2		5,031.99	1/2	4,691.75	1/2	4,333.72	1/2	3,971.36	1/2	3,609.01	1/2	3,246.65	1/2	2,884.29	1/2	2,521.90	1/2	2,159.41
3/4	3/4		5,025.15	3/4	4,684.46	3/4	4,326.17	3/4	3,963.82	3/4	3,601.46	3/4	3,239.10	3/4	2,876.75	3/4	2,514.35	3/4	2,151.86
10		10	5,018.31	10	4,677.16	10	4,318.62	10	3,956.27	10	3,593.91	10	3,231.55	10	2,869.20	10	2,506.79	10	2,144.30
1/4	1/4		5,011.37	1/4	4,669.84	1/4	4,311.07	1/4	3,948.72	1/4	3,586.36	1/4	3,224.00	1/4	2,861.65	1/4	2,499.24	1/4	2,136.75
1/2	1/2		5,004.43	1/2	4,662.51	1/2	4,303.52	1/2	3,941.17	1/2	3,578.81	1/2	3,216.45	1/2	2,854.10	1/2	2,491.69	1/2	2,129.20
3/4	3/4		4,997.49	3/4	4,655.19	3/4	4,295.98	3/4	3,933.62	3/4	3,571.26	3/4	3,208.91	3/4	2,846.55	3/4	2,484.14	3/4	2,121.65
11		11	4,990.55	11	4,647.86	11	4,288.43	11	3,926.07	11	3,563.71	11	3,201.36	11	2,839.00	11	2,476.59	11	2,114.10
1/4	1/4		4,983.58	1/4	4,640.51	1/4	4,280.88	1/4	3,918.52	1/4	3,556.16	1/4	3,193.81	1/4	2,831.45	1/4	2,469.03	1/4	2,106.54
1/2	1/2		4,976.61	1/2	4,633.15	1/2	4,273.33	1/2	3,910.97	1/2	3,548.61	1/2	3,186.26	1/2	2,823.90	1/2	2,461.48	1/2	2,098.99
3/4	3/4		4,969.64	3/4	4,625.80	3/4	4,265.78	3/4	3,903.42	3/4	3,541.07	3/4	3,178.71	3/4	2,816.35	3/4	2,453.93	3/4	2,091.44

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "NGL 3006"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-09"

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	2,083.89	0	1,721.40	0	1,358.91	0	996.81	0	634.43	0	271.95	0		0		0		0	
1/4	2,076.34	1/4	1,713.84	1/4	1,351.35	1/4	989.27	1/4	626.88	1/4	264.40	1/4		1/4	1/4	1/4		1/4	
1/2	2,068.78	1/2	1,706.29	1/2	1,343.80	1/2	981.73	1/2	619.32	1/2	256.85	1/2		1/2	1/2	1/2		1/2	
3/4	2,061.23	3/4	1,698.74	3/4	1,336.25	3/4	974.19	3/4	611.77	3/4	249.30	3/4		3/4	3/4	3/4		3/4	
1	2,053.68	1	1,691.19	1	1,328.70	1	966.65	1	604.22	1	241.74	1		1	1	1		1	
1/4	2,046.13	1/4	1,683.64	1/4	1,321.15	1/4	959.11	1/4	596.67	1/4	234.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,038.58	1/2	1,676.09	1/2	1,313.59	1/2	951.57	1/2	589.12	1/2	226.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,031.02	3/4	1,668.53	3/4	1,306.04	3/4	944.03	3/4	581.57	3/4	219.09	3/4		3/4	3/4	3/4		3/4	
2	2,023.47	2	1,660.98	2	1,298.49	2	936.49	2	574.01	2	211.54	2		2	2	2		2	
1/4	2,015.92	1/4	1,653.43	1/4	1,290.94	1/4	928.94	1/4	566.46	1/4	203.99	1/4		1/4	1/4	1/4		1/4	
1/2	2,008.37	1/2	1,645.88	1/2	1,283.39	1/2	921.39	1/2	558.91	1/2	196.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,000.82	3/4	1,638.33	3/4	1,275.83	3/4	913.84	3/4	551.36	3/4	188.88	3/4		3/4	3/4	3/4		3/4	
3	1,993.27	3	1,630.77	3	1,268.28	3	906.28	3	543.81	3	181.33	3		3	3	3		3	
1/4	1,985.71	1/4	1,623.22	1/4	1,260.73	1/4	898.73	1/4	536.26	1/4	173.78	1/4		1/4	1/4	1/4		1/4	
1/2	1,978.16	1/2	1,615.67	1/2	1,253.18	1/2	891.18	1/2	528.70	1/2	166.23	1/2		1/2	1/2	1/2		1/2	
3/4	1,970.61	3/4	1,608.12	3/4	1,245.63	3/4	883.63	3/4	521.15	3/4	158.68	3/4		3/4	3/4	3/4		3/4	
4	1,963.06	4	1,600.57	4	1,238.08	4	876.08	4	513.60	4	151.13	4		4	4	4		4	
1/4	1,955.51	1/4	1,593.01	1/4	1,230.54	1/4	868.53	1/4	506.05	1/4	143.59	1/4		1/4	1/4	1/4		1/4	
1/2	1,947.95	1/2	1,585.46	1/2	1,223.00	1/2	860.98	1/2	498.50	1/2	136.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,940.40	3/4	1,577.91	3/4	1,215.46	3/4	853.42	3/4	490.95	3/4	128.51	3/4		3/4	3/4	3/4		3/4	
5	1,932.85	5	1,570.36	5	1,207.92	5	845.87	5	483.40	5	120.96	5		5	5	5		5	
1/4	1,925.30	1/4	1,562.81	1/4	1,200.38	1/4	838.32	1/4	475.84	1/4	113.45	1/4		1/4	1/4	1/4		1/4	
1/2	1,917.75	1/2	1,555.25	1/2	1,192.84	1/2	830.77	1/2	468.29	1/2	105.93	1/2		1/2	1/2	1/2		1/2	
3/4	1,910.19	3/4	1,547.70	3/4	1,185.30	3/4	823.22	3/4	460.74	3/4	98.42	3/4		3/4	3/4	3/4		3/4	
6	1,902.64	6	1,540.15	6	1,177.76	6	815.67	6	453.19	6	90.90	6		6	6	6		6	
1/4	1,895.09	1/4	1,532.60	1/4	1,170.22	1/4	808.11	1/4	445.64	1/4	83.98	1/4		1/4	1/4	1/4		1/4	
1/2	1,887.54	1/2	1,525.05	1/2	1,162.68	1/2	800.56	1/2	438.09	1/2	77.06	1/2		1/2	1/2	1/2		1/2	
3/4	1,879.99	3/4	1,517.50	3/4	1,155.14	3/4	793.01	3/4	430.53	3/4	70.14	3/4		3/4	3/4	3/4		3/4	
7	1,872.43	7	1,509.94	7	1,147.60	7	785.46	7	422.98	7	63.22	7		7	7	7		7	
1/4	1,864.88	1/4	1,502.39	1/4	1,140.06	1/4	777.91	1/4	415.43	1/4	57.56	1/4		1/4	1/4	1/4		1/4	
1/2	1,857.33	1/2	1,494.84	1/2	1,132.52	1/2	770.36	1/2	407.88	1/2	51.89	1/2		1/2	1/2	1/2		1/2	
3/4	1,849.78	3/4	1,487.29	3/4	1,124.98	3/4	762.80	3/4	400.33	3/4	46.23	3/4		3/4	3/4	3/4		3/4	
8	1,842.23	8	1,479.74	8	1,117.44	8	755.25	8	392.78	8	40.57	8		8	8	8		8	
1/4	1,834.68	1/4	1,472.18	1/4	1,109.90	1/4	747.70	1/4	385.22	1/4	36.16	1/4		1/4	1/4	1/4		1/4	
1/2	1,827.12	1/2	1,464.63	1/2	1,102.36	1/2	740.15	1/2	377.67	1/2	31.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,819.57	3/4	1,457.08	3/4	1,094.82	3/4	732.60	3/4	370.12	3/4	27.36	3/4		3/4	3/4	3/4		3/4	
9	1,812.02	9	1,449.53	9	1,087.28	9	725.05	9	362.57	9	22.95	9		9	9	9		9	
1/4	1,804.47	1/4	1,441.98	1/4	1,079.74	1/4	717.49	1/4	355.02	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,796.92	1/2	1,434.42	1/2	1,072.20	1/2	709.94	1/2	347.47	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,789.36	3/4	1,426.87	3/4	1,064.66	3/4	702.39	3/4	339.91	3/4		3/4		3/4	3/4	3/4		3/4	
10	1,781.81	10	1,419.32	10	1,057.12	10	694.84	10	332.36	10		10		10	10	10		10	
1/4	1,774.26	1/4	1,411.77	1/4	1,049.59	1/4	687.29	1/4	324.81	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,766.71	1/2	1,404.22	1/2	1,042.05	1/2	679.74	1/2	317.26	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,759.16	3/4	1,396.67	3/4	1,034.51	3/4	672.19	3/4	309.71	3/4		3/4		3/4	3/4	3/4		3/4	
11	1,751.60	11	1,389.11	11	1,026.97	11	664.63	11	302.16	11		11		11	11	11		11	
1/4	1,744.05	1/4	1,381.56	1/4	1,019.43	1/4	657.08	1/4	294.61	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,736.50	1/2	1,374.01	1/2	1,011.89	1/2	649.53	1/2	287.05	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,728.95	3/4	1,366.46	3/4	1,004.35	3/4	641.98	3/4	279.50	3/4		3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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



BARGE "NGL 3006"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,960.77	0	4,616.55	0	4,256.34	0	3,893.98	0	3,531.62	0	3,169.27	0	2,806.91	0	2,444.48
1/4		1/4		1/4	4,953.78	1/4	4,609.16	1/4	4,248.79	1/4	3,886.43	1/4	3,524.07	1/4	3,161.72	1/4	2,799.36	1/4	2,436.93
1/2		1/2		1/2	4,946.78	1/2	4,601.78	1/2	4,241.24	1/2	3,878.88	1/2	3,516.52	1/2	3,154.17	1/2	2,791.81	1/2	2,429.38
3/4		3/4		3/4	4,939.78	3/4	4,594.39	3/4	4,233.69	3/4	3,871.33	3/4	3,508.97	3/4	3,146.62	3/4	2,784.26	3/4	2,421.83
1		1	5,242.25	1	4,932.78	1	4,587.01	1	4,226.14	1	3,863.78	1	3,501.43	1	3,139.07	1	2,776.71	1	2,414.28
1/4		1/4	5,237.92	1/4	4,925.76	1/4	4,579.59	1/4	4,218.59	1/4	3,856.23	1/4	3,493.88	1/4	3,131.52	1/4	2,769.16	1/4	2,406.72
1/2		1/2	5,233.59	1/2	4,918.73	1/2	4,572.18	1/2	4,211.04	1/2	3,848.68	1/2	3,486.33	1/2	3,123.97	1/2	2,761.61	1/2	2,399.17
3/4		3/4	5,229.25	3/4	4,911.70	3/4	4,564.76	3/4	4,203.49	3/4	3,841.14	3/4	3,478.78	3/4	3,116.42	3/4	2,754.06	3/4	2,391.62
2		2	5,224.92	2	4,904.67	2	4,557.35	2	4,195.94	2	3,833.59	2	3,471.23	2	3,108.87	2	2,746.52	2	2,384.07
1/4		1/4	5,219.36	1/4	4,897.62	1/4	4,549.90	1/4	4,188.39	1/4	3,826.04	1/4	3,463.68	1/4	3,101.32	1/4	2,738.97	1/4	2,376.52
1/2		1/2	5,213.80	1/2	4,890.56	1/2	4,542.46	1/2	4,180.84	1/2	3,818.49	1/2	3,456.13	1/2	3,093.77	1/2	2,731.42	1/2	2,368.97
3/4		3/4	5,208.23	3/4	4,883.50	3/4	4,535.01	3/4	4,173.30	3/4	3,810.94	3/4	3,448.58	3/4	3,086.23	3/4	2,723.87	3/4	2,361.41
3		3	5,202.67	3	4,876.45	3	4,527.57	3	4,165.75	3	3,803.39	3	3,441.03	3	3,078.68	3	2,716.32	3	2,353.86
1/4		1/4	5,196.64	1/4	4,869.36	1/4	4,520.10	1/4	4,158.20	1/4	3,795.84	1/4	3,433.48	1/4	3,071.13	1/4	2,708.77	1/4	2,346.31
1/2		1/2	5,190.62	1/2	4,862.27	1/2	4,512.62	1/2	4,150.65	1/2	3,788.29	1/2	3,425.93	1/2	3,063.58	1/2	2,701.22	1/2	2,338.76
3/4		3/4	5,184.59	3/4	4,855.19	3/4	4,505.15	3/4	4,143.10	3/4	3,780.74	3/4	3,418.39	3/4	3,056.03	3/4	2,693.67	3/4	2,331.21
4		4	5,178.56	4	4,848.10	4	4,497.67	4	4,135.55	4	3,773.19	4	3,410.84	4	3,048.48	4	2,686.12	4	2,323.65
1/4		1/4	5,171.91	1/4	4,840.98	1/4	4,490.17	1/4	4,128.00	1/4	3,765.64	1/4	3,403.29	1/4	3,040.93	1/4	2,678.57	1/4	2,316.10
1/2		1/2	5,165.25	1/2	4,833.86	1/2	4,482.66	1/2	4,120.45	1/2	3,758.09	1/2	3,395.74	1/2	3,033.38	1/2	2,671.02	1/2	2,308.55
3/4		3/4	5,158.60	3/4	4,826.75	3/4	4,475.16	3/4	4,112.90	3/4	3,750.55	3/4	3,388.19	3/4	3,025.83	3/4	2,663.48	3/4	2,301.00
5		5	5,151.95	5	4,819.63	5	4,467.65	5	4,105.35	5	3,743.00	5	3,380.64	5	3,018.28	5	2,655.93	5	2,293.45
1/4		1/4	5,145.24	1/4	4,812.48	1/4	4,460.12	1/4	4,097.80	1/4	3,735.45	1/4	3,373.09	1/4	3,010.73	1/4	2,648.38	1/4	2,285.89
1/2		1/2	5,138.53	1/2	4,805.34	1/2	4,452.58	1/2	4,090.26	1/2	3,727.90	1/2	3,365.54	1/2	3,003.18	1/2	2,640.83	1/2	2,278.34
3/4		3/4	5,131.82	3/4	4,798.19	3/4	4,445.05	3/4	4,082.71	3/4	3,720.35	3/4	3,357.99	3/4	2,995.64	3/4	2,633.28	3/4	2,270.79
6		6	5,125.11	6	4,791.04	6	4,437.51	6	4,075.16	6	3,712.80	6	3,350.44	6	2,988.09	6	2,625.73	6	2,263.24
1/4		1/4	5,118.36	1/4	4,783.87	1/4	4,429.96	1/4	4,067.61	1/4	3,705.25	1/4	3,342.89	1/4	2,980.54	1/4	2,618.18	1/4	2,255.69
1/2		1/2	5,111.62	1/2	4,776.69	1/2	4,422.42	1/2	4,060.06	1/2	3,697.70	1/2	3,335.35	1/2	2,972.99	1/2	2,610.63	1/2	2,248.13
3/4		3/4	5,104.87	3/4	4,769.51	3/4	4,414.87	3/4	4,052.51	3/4	3,690.15	3/4	3,327.80	3/4	2,965.44	3/4	2,603.07	3/4	2,240.58
7		7	5,098.12	7	4,762.34	7	4,407.32	7	4,044.96	7	3,682.60	7	3,320.25	7	2,957.89	7	2,595.52	7	2,233.03
1/4		1/4	5,091.34	1/4	4,755.13	1/4	4,399.77	1/4	4,037.41	1/4	3,675.05	1/4	3,312.70	1/4	2,950.34	1/4	2,587.97	1/4	2,225.48
1/2		1/2	5,084.56	1/2	4,747.92	1/2	4,392.22	1/2	4,029.86	1/2	3,667.51	1/2	3,305.15	1/2	2,942.79	1/2	2,580.42	1/2	2,217.93
3/4		3/4	5,077.78	3/4	4,740.72	3/4	4,384.67	3/4	4,022.31	3/4	3,659.96	3/4	3,297.60	3/4	2,935.24	3/4	2,572.87	3/4	2,210.38
8		8	5,071.00	8	4,733.51	8	4,377.12	8	4,014.76	8	3,652.41	8	3,290.05	8	2,927.69	8	2,565.31	8	2,202.82
1/4		1/4	5,064.20	1/4	4,726.25	1/4	4,369.57	1/4	4,007.22	1/4	3,644.86	1/4	3,282.50	1/4	2,920.14	1/4	2,557.76	1/4	2,195.27
1/2		1/2	5,057.39	1/2	4,718.98	1/2	4,362.02	1/2	3,999.67	1/2	3,637.31	1/2	3,274.95	1/2	2,912.60	1/2	2,550.21	1/2	2,187.72
3/4		3/4	5,050.58	3/4	4,711.71	3/4	4,354.47	3/4	3,992.12	3/4	3,629.76	3/4	3,267.40	3/4	2,905.05	3/4	2,542.66	3/4	2,180.17
9		9	5,043.77	9	4,704.45	9	4,346.92	9	3,984.57	9	3,622.21	9	3,259.85	9	2,897.50	9	2,535.11	9	2,172.62
1/4		1/4	5,036.93	1/4	4,697.15	1/4	4,339.38	1/4	3,977.02	1/4	3,614.66	1/4	3,252.31	1/4	2,889.95	1/4	2,527.56	1/4	2,165.06
1/2		1/2	5,030.09	1/2	4,689.86	1/2	4,331.83	1/2	3,969.47	1/2	3,607.11	1/2	3,244.76	1/2	2,882.40	1/2	2,520.00	1/2	2,157.51
3/4		3/4	5,023.25	3/4	4,682.56	3/4	4,324.28	3/4	3,961.92	3/4	3,599.56	3/4	3,237.21	3/4	2,874.85	3/4	2,512.45	3/4	2,149.96
10		10	5,016.41	10	4,675.27	10	4,316.73	10	3,954.37	10	3,592.01	10	3,229.66	10	2,867.30	10	2,504.90	10	2,142.41
1/4		1/4	5,009.47	1/4	4,667.94	1/4	4,309.18	1/4	3,946.82	1/4	3,584.47	1/4	3,222.11	1/4	2,859.75	1/4	2,497.35	1/4	2,134.86
1/2		1/2	5,002.53	1/2	4,660.62	1/2	4,301.63	1/2	3,939.27	1/2	3,576.92	1/2	3,214.56	1/2	2,852.20	1/2	2,489.80	1/2	2,127.30
3/4		3/4	4,995.59	3/4	4,653.29	3/4	4,294.08	3/4	3,931.72	3/4	3,569.37	3/4	3,207.01	3/4	2,844.65	3/4	2,482.24	3/4	2,119.75
11		11	4,988.65	11	4,645.97	11	4,286.53	11	3,924.18	11	3,561.82	11	3,199.46	11	2,837.10	11	2,474.69	11	2,112.20
1/4		1/4	4,981.68	1/4	4,638.61	1/4	4,278.98	1/4	3,916.63	1/4	3,554.27	1/4	3,191.91	1/4	2,829.56	1/4	2,467.14	1/4	2,104.65
1/2		1/2	4,974.71	1/2	4,631.26	1/2	4,271.43	1/2	3,909.08	1/2	3,546.72	1/2	3,184.36	1/2	2,822.01	1/2	2,459.59	1/2	2,097.10
3/4		3/4	4,967.74	3/4	4,623.90	3/4	4,263.88	3/4	3,901.53	3/4	3,539.17	3/4	3,176.81	3/4	2,814.46	3/4	2,452.04	3/4	2,089.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "NGL 3006"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-09"

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	2,081.99	0	1,719.50	0	1,357.01	0	996.34	0	634.43	0	271.95	0		0		0		0	
1/4	2,074.44	1/4	1,711.95	1/4	1,349.46	1/4	988.84	1/4	626.88	1/4	264.40	1/4		1/4		1/4		1/4	
1/2	2,066.89	1/2	1,704.40	1/2	1,341.91	1/2	981.34	1/2	619.33	1/2	256.85	1/2		1/2		1/2		1/2	
3/4	2,059.34	3/4	1,696.85	3/4	1,334.36	3/4	973.84	3/4	611.77	3/4	249.30	3/4		3/4		3/4		3/4	
1	2,051.79	1	1,689.29	1	1,326.80	1	966.34	1	604.22	1	241.75	1		1		1		1	
1/4	2,044.23	1/4	1,681.74	1/4	1,319.25	1/4	958.84	1/4	596.67	1/4	234.19	1/4		1/4		1/4		1/4	
1/2	2,036.68	1/2	1,674.19	1/2	1,311.70	1/2	951.33	1/2	589.12	1/2	226.64	1/2		1/2		1/2		1/2	
3/4	2,029.13	3/4	1,666.64	3/4	1,304.15	3/4	943.83	3/4	581.57	3/4	219.09	3/4		3/4		3/4		3/4	
2	2,021.58	2	1,659.09	2	1,296.60	2	936.33	2	574.02	2	211.54	2		2		2		2	
1/4	2,014.03	1/4	1,651.53	1/4	1,289.04	1/4	928.82	1/4	566.47	1/4	203.99	1/4		1/4		1/4		1/4	
1/2	2,006.47	1/2	1,643.98	1/2	1,281.49	1/2	921.31	1/2	558.91	1/2	196.44	1/2		1/2		1/2		1/2	
3/4	1,998.92	3/4	1,636.43	3/4	1,273.94	3/4	913.80	3/4	551.36	3/4	188.89	3/4		3/4		3/4		3/4	
3	1,991.37	3	1,628.88	3	1,266.39	3	906.29	3	543.81	3	181.33	3		3		3		3	
1/4	1,983.82	1/4	1,621.33	1/4	1,258.88	1/4	898.74	1/4	536.26	1/4	173.78	1/4		1/4		1/4		1/4	
1/2	1,976.27	1/2	1,613.78	1/2	1,251.36	1/2	891.18	1/2	528.71	1/2	166.23	1/2		1/2		1/2		1/2	
3/4	1,968.71	3/4	1,606.22	3/4	1,243.85	3/4	883.63	3/4	521.16	3/4	158.68	3/4		3/4		3/4		3/4	
4	1,961.16	4	1,598.67	4	1,236.34	4	876.08	4	513.60	4	151.13	4		4		4		4	
1/4	1,953.61	1/4	1,591.12	1/4	1,228.84	1/4	868.53	1/4	506.05	1/4	143.59	1/4		1/4		1/4		1/4	
1/2	1,946.06	1/2	1,583.57	1/2	1,221.34	1/2	860.98	1/2	498.50	1/2	136.05	1/2		1/2		1/2		1/2	
3/4	1,938.51	3/4	1,576.02	3/4	1,213.84	3/4	853.43	3/4	490.95	3/4	128.51	3/4		3/4		3/4		3/4	
5	1,930.96	5	1,568.46	5	1,206.34	5	845.87	5	483.40	5	120.97	5		5		5		5	
1/4	1,923.40	1/4	1,560.91	1/4	1,198.84	1/4	838.32	1/4	475.85	1/4	113.45	1/4		1/4		1/4		1/4	
1/2	1,915.85	1/2	1,553.36	1/2	1,191.34	1/2	830.77	1/2	468.29	1/2	105.94	1/2		1/2		1/2		1/2	
3/4	1,908.30	3/4	1,545.81	3/4	1,183.84	3/4	823.22	3/4	460.74	3/4	98.42	3/4		3/4		3/4		3/4	
6	1,900.75	6	1,538.26	6	1,176.34	6	815.67	6	453.19	6	90.90	6		6		6		6	
1/4	1,893.20	1/4	1,530.70	1/4	1,168.84	1/4	808.12	1/4	445.64	1/4	83.98	1/4		1/4		1/4		1/4	
1/2	1,885.64	1/2	1,523.15	1/2	1,161.34	1/2	800.56	1/2	438.09	1/2	77.06	1/2		1/2		1/2		1/2	
3/4	1,878.09	3/4	1,515.60	3/4	1,153.84	3/4	793.01	3/4	430.54	3/4	70.14	3/4		3/4		3/4		3/4	
7	1,870.54	7	1,508.05	7	1,146.34	7	785.46	7	422.98	7	63.22	7		7		7		7	
1/4	1,862.99	1/4	1,500.50	1/4	1,138.84	1/4	777.91	1/4	415.43	1/4	57.56	1/4		1/4		1/4		1/4	
1/2	1,855.44	1/2	1,492.94	1/2	1,131.34	1/2	770.36	1/2	407.88	1/2	51.90	1/2		1/2		1/2		1/2	
3/4	1,847.88	3/4	1,485.39	3/4	1,123.84	3/4	762.81	3/4	400.33	3/4	46.23	3/4		3/4		3/4		3/4	
8	1,840.33	8	1,477.84	8	1,116.34	8	755.26	8	392.78	8	40.57	8		8		8		8	
1/4	1,832.78	1/4	1,470.29	1/4	1,108.84	1/4	747.70	1/4	385.23	1/4	36.17	1/4		1/4		1/4		1/4	
1/2	1,825.23	1/2	1,462.74	1/2	1,101.34	1/2	740.15	1/2	377.68	1/2	31.76	1/2		1/2		1/2		1/2	
3/4	1,817.68	3/4	1,455.19	3/4	1,093.84	3/4	732.60	3/4	370.12	3/4	27.36	3/4		3/4		3/4		3/4	
9	1,810.12	9	1,447.63	9	1,086.34	9	725.05	9	362.57	9	22.95	9		9		9		9	
1/4	1,802.57	1/4	1,440.08	1/4	1,078.84	1/4	717.50	1/4	355.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,795.02	1/2	1,432.53	1/2	1,071.34	1/2	709.95	1/2	347.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,787.47	3/4	1,424.98	3/4	1,063.84	3/4	702.39	3/4	339.92	3/4		3/4		3/4		3/4		3/4	
10	1,779.92	10	1,417.43	10	1,056.34	10	694.84	10	332.37	10		10		10		10		10	
1/4	1,772.37	1/4	1,409.87	1/4	1,048.84	1/4	687.29	1/4	324.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.81	1/2	1,402.32	1/2	1,041.34	1/2	679.74	1/2	317.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,757.26	3/4	1,394.77	3/4	1,033.84	3/4	672.19	3/4	309.71	3/4		3/4		3/4		3/4		3/4	
11	1,749.71	11	1,387.22	11	1,026.34	11	664.64	11	302.16	11		11		11		11		11	
1/4	1,742.16	1/4	1,379.67	1/4	1,018.84	1/4	657.08	1/4	294.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.61	1/2	1,372.11	1/2	1,011.34	1/2	649.53	1/2	287.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.05	3/4	1,364.56	3/4	1,003.84	3/4	641.98	3/4	279.50	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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



BARGE "NGL 3006"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	4,940.83	0	4,597.23	0	4,237.94	0	3,876.66	0	3,515.39	0	3,154.12	0	2,792.85	0	2,431.51
1/4		1/4		1/4	4,933.85	1/4	4,589.87	1/4	4,230.41	1/4	3,869.14	1/4	3,507.87	1/4	3,146.59	1/4	2,785.32	1/4	2,423.98
1/2		1/2		1/2	4,926.87	1/2	4,582.51	1/2	4,222.88	1/2	3,861.61	1/2	3,500.34	1/2	3,139.07	1/2	2,777.79	1/2	2,416.45
3/4		3/4	5,228.45	3/4	4,919.89	3/4	4,575.14	3/4	4,215.36	3/4	3,854.08	3/4	3,492.81	3/4	3,131.54	3/4	2,770.27	3/4	2,408.92
1		1	5,224.13	1	4,912.89	1	4,567.75	1	4,207.83	1	3,846.56	1	3,485.29	1	3,124.01	1	2,762.74	1	2,401.39
1/4		1/4	5,219.81	1/4	4,905.88	1/4	4,560.36	1/4	4,200.30	1/4	3,839.03	1/4	3,477.76	1/4	3,116.49	1/4	2,755.22	1/4	2,393.86
1/2		1/2	5,215.49	1/2	4,898.88	1/2	4,552.96	1/2	4,192.78	1/2	3,831.50	1/2	3,470.23	1/2	3,108.96	1/2	2,747.69	1/2	2,386.33
3/4		3/4	5,211.17	3/4	4,891.87	3/4	4,545.57	3/4	4,185.25	3/4	3,823.98	3/4	3,462.71	3/4	3,101.43	3/4	2,740.16	3/4	2,378.80
2		2	5,205.63	2	4,884.83	2	4,538.15	2	4,177.72	2	3,816.45	2	3,455.18	2	3,093.91	2	2,732.64	2	2,371.27
1/4		1/4	5,200.08	1/4	4,877.80	1/4	4,530.73	1/4	4,170.20	1/4	3,808.93	1/4	3,447.65	1/4	3,086.38	1/4	2,725.11	1/4	2,363.75
1/2		1/2	5,194.54	1/2	4,870.76	1/2	4,523.30	1/2	4,162.67	1/2	3,801.40	1/2	3,440.13	1/2	3,078.85	1/2	2,717.58	1/2	2,356.22
3/4		3/4	5,188.99	3/4	4,863.72	3/4	4,515.88	3/4	4,155.14	3/4	3,793.87	3/4	3,432.60	3/4	3,071.33	3/4	2,710.06	3/4	2,348.69
3		3	5,182.98	3	4,856.66	3	4,508.43	3	4,147.62	3	3,786.35	3	3,425.07	3	3,063.80	3	2,702.53	3	2,341.16
1/4		1/4	5,176.97	1/4	4,849.59	1/4	4,500.98	1/4	4,140.09	1/4	3,778.82	1/4	3,417.55	1/4	3,056.28	1/4	2,695.00	1/4	2,333.63
1/2		1/2	5,170.96	1/2	4,842.52	1/2	4,493.53	1/2	4,132.56	1/2	3,771.29	1/2	3,410.02	1/2	3,048.75	1/2	2,687.48	1/2	2,326.10
3/4		3/4	5,164.95	3/4	4,835.46	3/4	4,486.07	3/4	4,125.04	3/4	3,763.77	3/4	3,402.49	3/4	3,041.22	3/4	2,679.95	3/4	2,318.57
4		4	5,158.32	4	4,828.36	4	4,478.59	4	4,117.51	4	3,756.24	4	3,394.97	4	3,033.70	4	2,672.42	4	2,311.04
1/4		1/4	5,151.68	1/4	4,821.27	1/4	4,471.11	1/4	4,109.99	1/4	3,748.71	1/4	3,387.44	1/4	3,026.17	1/4	2,664.90	1/4	2,303.51
1/2		1/2	5,145.05	1/2	4,814.17	1/2	4,463.63	1/2	4,102.46	1/2	3,741.19	1/2	3,379.91	1/2	3,018.64	1/2	2,657.37	1/2	2,295.98
3/4		3/4	5,138.41	3/4	4,807.07	3/4	4,456.15	3/4	4,094.93	3/4	3,733.66	3/4	3,372.39	3/4	3,011.12	3/4	2,649.84	3/4	2,288.45
5		5	5,131.73	5	4,799.95	5	4,448.63	5	4,087.41	5	3,726.13	5	3,364.86	5	3,003.59	5	2,642.32	5	2,280.92
1/4		1/4	5,125.04	1/4	4,792.82	1/4	4,441.12	1/4	4,079.88	1/4	3,718.61	1/4	3,357.34	1/4	2,996.06	1/4	2,634.79	1/4	2,273.39
1/2		1/2	5,118.35	1/2	4,785.70	1/2	4,433.61	1/2	4,072.35	1/2	3,711.08	1/2	3,349.81	1/2	2,988.54	1/2	2,627.26	1/2	2,265.87
3/4		3/4	5,111.66	3/4	4,778.57	3/4	4,426.10	3/4	4,064.83	3/4	3,703.55	3/4	3,342.28	3/4	2,981.01	3/4	2,619.74	3/4	2,258.34
6		6	5,104.93	6	4,771.42	6	4,418.57	6	4,057.30	6	3,696.03	6	3,334.76	6	2,973.48	6	2,612.21	6	2,250.81
1/4		1/4	5,098.20	1/4	4,764.26	1/4	4,411.05	1/4	4,049.77	1/4	3,688.50	1/4	3,327.23	1/4	2,965.96	1/4	2,604.68	1/4	2,243.28
1/2		1/2	5,091.47	1/2	4,757.11	1/2	4,403.52	1/2	4,042.25	1/2	3,680.97	1/2	3,319.70	1/2	2,958.43	1/2	2,597.15	1/2	2,235.75
3/4		3/4	5,084.75	3/4	4,749.95	3/4	4,395.99	3/4	4,034.72	3/4	3,673.45	3/4	3,312.18	3/4	2,950.90	3/4	2,589.62	3/4	2,228.22
7		7	5,077.99	7	4,742.77	7	4,388.47	7	4,027.19	7	3,665.92	7	3,304.65	7	2,943.38	7	2,582.09	7	2,220.69
1/4		1/4	5,071.23	1/4	4,735.58	1/4	4,380.94	1/4	4,019.67	1/4	3,658.40	1/4	3,297.12	1/4	2,935.85	1/4	2,574.56	1/4	2,213.16
1/2		1/2	5,064.47	1/2	4,728.40	1/2	4,373.41	1/2	4,012.14	1/2	3,650.87	1/2	3,289.60	1/2	2,928.32	1/2	2,567.03	1/2	2,205.63
3/4		3/4	5,057.71	3/4	4,721.21	3/4	4,365.89	3/4	4,004.61	3/4	3,643.34	3/4	3,282.07	3/4	2,920.80	3/4	2,559.50	3/4	2,198.10
8		8	5,050.92	8	4,713.97	8	4,358.36	8	3,997.09	8	3,635.82	8	3,274.54	8	2,913.27	8	2,551.98	8	2,190.57
1/4		1/4	5,044.13	1/4	4,706.72	1/4	4,350.83	1/4	3,989.56	1/4	3,628.29	1/4	3,267.02	1/4	2,905.75	1/4	2,544.45	1/4	2,183.04
1/2		1/2	5,037.34	1/2	4,699.48	1/2	4,343.31	1/2	3,982.03	1/2	3,620.76	1/2	3,259.49	1/2	2,898.22	1/2	2,536.92	1/2	2,175.52
3/4		3/4	5,030.55	3/4	4,692.23	3/4	4,335.78	3/4	3,974.51	3/4	3,613.24	3/4	3,251.96	3/4	2,890.69	3/4	2,529.39	3/4	2,167.99
9		9	5,023.74	9	4,684.96	9	4,328.25	9	3,966.98	9	3,605.71	9	3,244.44	9	2,883.17	9	2,521.86	9	2,160.46
1/4		1/4	5,016.92	1/4	4,677.69	1/4	4,320.73	1/4	3,959.46	1/4	3,598.18	1/4	3,236.91	1/4	2,875.64	1/4	2,514.33	1/4	2,152.93
1/2		1/2	5,010.10	1/2	4,670.41	1/2	4,313.20	1/2	3,951.93	1/2	3,590.66	1/2	3,229.38	1/2	2,868.11	1/2	2,506.80	1/2	2,145.40
3/4		3/4	5,003.28	3/4	4,663.14	3/4	4,305.67	3/4	3,944.40	3/4	3,583.13	3/4	3,221.86	3/4	2,860.59	3/4	2,499.27	3/4	2,137.87
10		10	4,996.36	10	4,655.84	10	4,298.15	10	3,936.88	10	3,575.60	10	3,214.33	10	2,853.06	10	2,491.74	10	2,130.34
1/4		1/4	4,989.44	1/4	4,648.53	1/4	4,290.62	1/4	3,929.35	1/4	3,568.08	1/4	3,206.81	1/4	2,845.53	1/4	2,484.21	1/4	2,122.81
1/2		1/2	4,982.52	1/2	4,641.23	1/2	4,283.09	1/2	3,921.82	1/2	3,560.55	1/2	3,199.28	1/2	2,838.01	1/2	2,476.68	1/2	2,115.28
3/4		3/4	4,975.60	3/4	4,633.93	3/4	4,275.57	3/4	3,914.30	3/4	3,553.02	3/4	3,191.75	3/4	2,830.48	3/4	2,469.15	3/4	2,107.75
11		11	4,968.65	11	4,626.59	11	4,268.04	11	3,906.77	11	3,545.50	11	3,184.23	11	2,822.95	11	2,461.62	11	2,100.22
1/4		1/4	4,961.70	1/4	4,619.26	1/4	4,260.52	1/4	3,899.24	1/4	3,537.97	1/4	3,176.70	1/4	2,815.43	1/4	2,454.10	1/4	2,092.69
1/2		1/2	4,954.75	1/2	4,611.93	1/2	4,252.99	1/2	3,891.72	1/2	3,530.44	1/2	3,169.17	1/2	2,807.90	1/2	2,446.57	1/2	2,085.16
3/4		3/4	4,947.80	3/4	4,604.54	3/4	4,245.46	3/4	3,884.19	3/4	3,522.92	3/4	3,161.65	3/4	2,800.37	3/4	2,439.04	3/4	2,077.64

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "NGL 3006"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	2,070.11	0	1,708.70	0	1,347.30	0	986.31	0	625.00	0	263.61	0		0		0		0	
1/4	2,062.58	1/4	1,701.18	1/4	1,339.77	1/4	978.79	1/4	617.47	1/4	256.08	1/4		1/4	1/4	1/4		1/4	
1/2	2,055.05	1/2	1,693.65	1/2	1,332.24	1/2	971.27	1/2	609.94	1/2	248.55	1/2		1/2	1/2	1/2		1/2	
3/4	2,047.52	3/4	1,686.12	3/4	1,324.72	3/4	963.76	3/4	602.41	3/4	241.02	3/4		3/4	3/4	3/4		3/4	
1	2,039.99	1	1,678.59	1	1,317.19	1	956.24	1	594.88	1	233.49	1		1	1	1		1	
1/4	2,032.46	1/4	1,671.06	1/4	1,309.66	1/4	948.72	1/4	587.36	1/4	225.96	1/4		1/4	1/4	1/4		1/4	
1/2	2,024.93	1/2	1,663.53	1/2	1,302.13	1/2	941.21	1/2	579.83	1/2	218.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,017.40	3/4	1,656.00	3/4	1,294.60	3/4	933.69	3/4	572.30	3/4	210.91	3/4		3/4	3/4	3/4		3/4	
2	2,009.87	2	1,648.47	2	1,287.07	2	926.16	2	564.77	2	203.38	2		2	2	2		2	
1/4	2,002.34	1/4	1,640.94	1/4	1,279.54	1/4	918.63	1/4	557.24	1/4	195.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,994.81	1/2	1,633.41	1/2	1,272.01	1/2	911.10	1/2	549.71	1/2	188.32	1/2		1/2	1/2	1/2		1/2	
3/4	1,987.29	3/4	1,625.88	3/4	1,264.48	3/4	903.57	3/4	542.18	3/4	180.79	3/4		3/4	3/4	3/4		3/4	
3	1,979.76	3	1,618.35	3	1,256.95	3	896.04	3	534.65	3	173.26	3		3	3	3		3	
1/4	1,972.23	1/4	1,610.83	1/4	1,249.42	1/4	888.52	1/4	527.12	1/4	165.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,964.70	1/2	1,603.30	1/2	1,241.89	1/2	880.99	1/2	519.59	1/2	158.21	1/2		1/2	1/2	1/2		1/2	
3/4	1,957.17	3/4	1,595.77	3/4	1,234.37	3/4	873.46	3/4	512.07	3/4	150.68	3/4		3/4	3/4	3/4		3/4	
4	1,949.64	4	1,588.24	4	1,226.85	4	865.93	4	504.54	4	143.16	4		4	4	4		4	
1/4	1,942.11	1/4	1,580.71	1/4	1,219.33	1/4	858.40	1/4	497.01	1/4	135.64	1/4		1/4	1/4	1/4		1/4	
1/2	1,934.58	1/2	1,573.18	1/2	1,211.81	1/2	850.87	1/2	489.48	1/2	128.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,927.05	3/4	1,565.65	3/4	1,204.30	3/4	843.34	3/4	481.95	3/4	120.60	3/4		3/4	3/4	3/4		3/4	
5	1,919.52	5	1,558.12	5	1,196.78	5	835.81	5	474.42	5	113.11	5		5	5	5		5	
1/4	1,911.99	1/4	1,550.59	1/4	1,189.26	1/4	828.28	1/4	466.89	1/4	105.62	1/4		1/4	1/4	1/4		1/4	
1/2	1,904.46	1/2	1,543.06	1/2	1,181.75	1/2	820.75	1/2	459.36	1/2	98.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,896.93	3/4	1,535.53	3/4	1,174.23	3/4	813.23	3/4	451.83	3/4	90.63	3/4		3/4	3/4	3/4		3/4	
6	1,889.41	6	1,528.00	6	1,166.71	6	805.70	6	444.30	6	83.73	6		6	6	6		6	
1/4	1,881.88	1/4	1,520.47	1/4	1,159.20	1/4	798.17	1/4	436.78	1/4	76.83	1/4		1/4	1/4	1/4		1/4	
1/2	1,874.35	1/2	1,512.95	1/2	1,151.68	1/2	790.64	1/2	429.25	1/2	69.93	1/2		1/2	1/2	1/2		1/2	
3/4	1,866.82	3/4	1,505.42	3/4	1,144.16	3/4	783.11	3/4	421.72	3/4	63.03	3/4		3/4	3/4	3/4		3/4	
7	1,859.29	7	1,497.89	7	1,136.65	7	775.58	7	414.19	7	57.39	7		7	7	7		7	
1/4	1,851.76	1/4	1,490.36	1/4	1,129.13	1/4	768.05	1/4	406.66	1/4	51.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,844.23	1/2	1,482.83	1/2	1,121.61	1/2	760.52	1/2	399.13	1/2	46.09	1/2		1/2	1/2	1/2		1/2	
3/4	1,836.70	3/4	1,475.30	3/4	1,114.09	3/4	752.99	3/4	391.60	3/4	40.45	3/4		3/4	3/4	3/4		3/4	
8	1,829.17	8	1,467.77	8	1,106.58	8	745.46	8	384.07	8	36.06	8		8	8	8		8	
1/4	1,821.64	1/4	1,460.24	1/4	1,099.06	1/4	737.94	1/4	376.54	1/4	31.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,814.11	1/2	1,452.71	1/2	1,091.54	1/2	730.41	1/2	369.01	1/2	27.28	1/2		1/2	1/2	1/2		1/2	
3/4	1,806.58	3/4	1,445.18	3/4	1,084.03	3/4	722.88	3/4	361.49	3/4	22.89	3/4		3/4	3/4	3/4		3/4	
9	1,799.06	9	1,437.65	9	1,076.51	9	715.35	9	353.96	9		9		9	9	9		9	
1/4	1,791.53	1/4	1,430.12	1/4	1,068.99	1/4	707.82	1/4	346.43	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,784.00	1/2	1,422.60	1/2	1,061.48	1/2	700.29	1/2	338.90	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,776.47	3/4	1,415.07	3/4	1,053.96	3/4	692.76	3/4	331.37	3/4		3/4		3/4	3/4	3/4		3/4	
10	1,768.94	10	1,407.54	10	1,046.44	10	685.23	10	323.84	10		10		10	10	10		10	
1/4	1,761.41	1/4	1,400.01	1/4	1,038.93	1/4	677.70	1/4	316.31	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,753.88	1/2	1,392.48	1/2	1,031.41	1/2	670.17	1/2	308.78	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,746.35	3/4	1,384.95	3/4	1,023.89	3/4	662.65	3/4	301.25	3/4		3/4		3/4	3/4	3/4		3/4	
11	1,738.82	11	1,377.42	11	1,016.38	11	655.12	11	293.72	11		11		11	11	11		11	
1/4	1,731.29	1/4	1,369.89	1/4	1,008.86	1/4	647.59	1/4	286.20	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,723.76	1/2	1,362.36	1/2	1,001.34	1/2	640.06	1/2	278.67	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,716.23	3/4	1,354.83	3/4	993.82	3/4	632.53	3/4	271.14	3/4		3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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



BARGE "NGL 3006"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	4,924.94	0	4,581.35	0	4,222.07	0	3,860.80	0	3,499.52	0	3,138.25	0	2,776.98	0	2,415.64
1/4		1/4		1/4	4,917.97	1/4	4,573.98	1/4	4,214.54	1/4	3,853.27	1/4	3,492.00	1/4	3,130.72	1/4	2,769.45	1/4	2,408.11
1/2		1/2		1/2	4,910.99	1/2	4,566.62	1/2	4,207.01	1/2	3,845.74	1/2	3,484.47	1/2	3,123.20	1/2	2,761.93	1/2	2,400.58
3/4		3/4		3/4	5,212.57	3/4	4,904.01	3/4	4,559.26	3/4	4,199.49	3/4	3,838.22	3/4	3,476.94	3/4	3,115.67	3/4	2,754.40
1		1		1	5,208.25	1	4,897.01	1	4,551.87	1	4,191.96	1	3,830.69	1	3,469.42	1	3,108.15	1	2,746.87
1/4		1/4		1/4	5,203.93	1/4	4,890.00	1/4	4,544.47	1/4	4,184.43	1/4	3,823.16	1/4	3,461.89	1/4	3,100.62	1/4	2,739.35
1/2		1/2		1/2	5,199.61	1/2	4,882.99	1/2	4,537.08	1/2	4,176.91	1/2	3,815.64	1/2	3,454.36	1/2	3,093.09	1/2	2,731.82
3/4		3/4		3/4	5,195.29	3/4	4,875.99	3/4	4,529.69	3/4	4,169.38	3/4	3,808.11	3/4	3,446.84	3/4	3,085.57	3/4	2,724.29
2		2		2	5,189.75	2	4,868.95	2	4,522.27	2	4,161.86	2	3,800.58	2	3,439.31	2	3,078.04	2	2,716.77
1/4		1/4		1/4	5,184.20	1/4	4,861.91	1/4	4,514.84	1/4	4,154.33	1/4	3,793.06	1/4	3,431.78	1/4	3,070.51	1/4	2,709.24
1/2		1/2		1/2	5,178.66	1/2	4,854.88	1/2	4,507.42	1/2	4,146.80	1/2	3,785.53	1/2	3,424.26	1/2	3,062.99	1/2	2,701.71
3/4		3/4		3/4	5,173.11	3/4	4,847.84	3/4	4,500.00	3/4	4,139.28	3/4	3,778.00	3/4	3,416.73	3/4	3,055.46	3/4	2,694.19
3		3		3	5,167.10	3	4,840.77	3	4,492.55	3	4,131.75	3	3,770.48	3	3,409.21	3	3,047.93	3	2,686.66
1/4		1/4		1/4	5,161.09	1/4	4,833.71	1/4	4,485.09	1/4	4,124.22	1/4	3,762.95	1/4	3,401.68	1/4	3,040.41	1/4	2,679.13
1/2		1/2		1/2	5,155.08	1/2	4,826.64	1/2	4,477.64	1/2	4,116.70	1/2	3,755.42	1/2	3,394.15	1/2	3,032.88	1/2	2,671.61
3/4		3/4		3/4	5,149.07	3/4	4,819.57	3/4	4,470.19	3/4	4,109.17	3/4	3,747.90	3/4	3,386.63	3/4	3,025.35	3/4	2,664.08
4		4		4	5,142.44	4	4,812.48	4	4,462.71	4	4,101.64	4	3,740.37	4	3,379.10	4	3,017.83	4	2,656.56
1/4		1/4		1/4	5,135.80	1/4	4,805.38	1/4	4,455.23	1/4	4,094.12	1/4	3,732.84	1/4	3,371.57	1/4	3,010.30	1/4	2,649.03
1/2		1/2		1/2	5,129.17	1/2	4,798.29	1/2	4,447.74	1/2	4,086.59	1/2	3,725.32	1/2	3,364.05	1/2	3,002.77	1/2	2,641.50
3/4		3/4		3/4	5,122.53	3/4	4,791.19	3/4	4,440.26	3/4	4,079.06	3/4	3,717.79	3/4	3,356.52	3/4	2,995.25	3/4	2,633.98
5		5		5	5,115.84	5	4,784.07	5	4,432.75	5	4,071.54	5	3,710.27	5	3,348.99	5	2,987.72	5	2,626.45
1/4		1/4		1/4	5,109.15	1/4	4,776.94	1/4	4,425.25	1/4	4,064.01	1/4	3,702.74	1/4	3,341.47	1/4	2,980.19	1/4	2,618.92
1/2		1/2		1/2	5,102.47	1/2	4,769.81	1/2	4,417.74	1/2	4,056.48	1/2	3,695.21	1/2	3,333.94	1/2	2,972.67	1/2	2,611.40
3/4		3/4		3/4	5,095.78	3/4	4,762.69	3/4	4,410.23	3/4	4,048.96	3/4	3,687.69	3/4	3,326.41	3/4	2,965.14	3/4	2,603.87
6		6		6	5,089.05	6	4,755.53	6	4,402.70	6	4,041.43	6	3,680.16	6	3,318.89	6	2,957.62	6	2,596.34
1/4		1/4		1/4	5,082.32	1/4	4,748.38	1/4	4,395.18	1/4	4,033.90	1/4	3,672.63	1/4	3,311.36	1/4	2,950.09	1/4	2,588.81
1/2		1/2		1/2	5,075.59	1/2	4,741.22	1/2	4,387.65	1/2	4,026.38	1/2	3,665.11	1/2	3,303.83	1/2	2,942.56	1/2	2,581.28
3/4		3/4		3/4	5,068.86	3/4	4,734.07	3/4	4,380.12	3/4	4,018.85	3/4	3,657.58	3/4	3,296.31	3/4	2,935.04	3/4	2,573.75
7		7		7	5,062.10	7	4,726.88	7	4,372.60	7	4,011.33	7	3,650.05	7	3,288.78	7	2,927.51	7	2,566.22
1/4		1/4		1/4	5,055.35	1/4	4,719.70	1/4	4,365.07	1/4	4,003.80	1/4	3,642.53	1/4	3,281.25	1/4	2,919.98	1/4	2,558.69
1/2		1/2		1/2	5,048.59	1/2	4,712.51	1/2	4,357.54	1/2	3,996.27	1/2	3,635.00	1/2	3,273.73	1/2	2,912.46	1/2	2,551.16
3/4		3/4		3/4	5,041.83	3/4	4,705.33	3/4	4,350.02	3/4	3,988.75	3/4	3,627.47	3/4	3,266.20	3/4	2,904.93	3/4	2,543.64
8		8		8	5,035.04	8	4,698.08	8	4,342.49	8	3,981.22	8	3,619.95	8	3,258.68	8	2,897.40	8	2,536.11
1/4		1/4		1/4	5,028.25	1/4	4,690.84	1/4	4,334.96	1/4	3,973.69	1/4	3,612.42	1/4	3,251.15	1/4	2,889.88	1/4	2,528.58
1/2		1/2		1/2	5,021.46	1/2	4,683.59	1/2	4,327.44	1/2	3,966.17	1/2	3,604.89	1/2	3,243.62	1/2	2,882.35	1/2	2,521.05
3/4		3/4		3/4	5,014.67	3/4	4,676.35	3/4	4,319.91	3/4	3,958.64	3/4	3,597.37	3/4	3,236.10	3/4	2,874.82	3/4	2,513.52
9		9		9	5,007.85	9	4,669.08	9	4,312.39	9	3,951.11	9	3,589.84	9	3,228.57	9	2,867.30	9	2,505.99
1/4		1/4		1/4	5,001.03	1/4	4,661.80	1/4	4,304.86	1/4	3,943.59	1/4	3,582.31	1/4	3,221.04	1/4	2,859.77	1/4	2,498.46
1/2		1/2		1/2	4,994.22	1/2	4,654.53	1/2	4,297.33	1/2	3,936.06	1/2	3,574.79	1/2	3,213.52	1/2	2,852.24	1/2	2,490.93
3/4		3/4		3/4	4,987.40	3/4	4,647.26	3/4	4,289.81	3/4	3,928.53	3/4	3,567.26	3/4	3,205.99	3/4	2,844.72	3/4	2,483.40
10		10		10	4,980.48	10	4,639.95	10	4,282.28	10	3,921.01	10	3,559.74	10	3,198.46	10	2,837.19	10	2,475.87
1/4		1/4		1/4	4,973.56	1/4	4,632.65	1/4	4,274.75	1/4	3,913.48	1/4	3,552.21	1/4	3,190.94	1/4	2,829.66	1/4	2,468.34
1/2		1/2		1/2	4,966.64	1/2	4,625.35	1/2	4,267.23	1/2	3,905.95	1/2	3,544.68	1/2	3,183.41	1/2	2,822.14	1/2	2,460.81
3/4		3/4		3/4	4,959.72	3/4	4,618.04	3/4	4,259.70	3/4	3,898.43	3/4	3,537.16	3/4	3,175.88	3/4	2,814.61	3/4	2,453.28
11		11		11	4,952.77	11	4,610.71	11	4,252.17	11	3,890.90	11	3,529.63	11	3,168.36	11	2,807.09	11	2,445.75
1/4		1/4		1/4	4,945.82	1/4	4,603.38	1/4	4,244.65	1/4	3,883.37	1/4	3,522.10	1/4	3,160.83	1/4	2,799.56	1/4	2,438.23
1/2		1/2		1/2	4,938.87	1/2	4,596.04	1/2	4,237.12	1/2	3,875.85	1/2	3,514.58	1/2	3,153.30	1/2	2,792.03	1/2	2,430.70
3/4		3/4		3/4	4,931.92	3/4	4,588.71	3/4	4,229.59	3/4	3,868.32	3/4	3,507.05	3/4	3,145.78	3/4	2,784.51	3/4	2,423.17

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "NGL 3006"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	2,054.23	0	1,692.82	0	1,331.42	0	982.66	0	625.00	0	263.61	0		0		0		0	
1/4	2,046.70	1/4	1,685.30	1/4	1,323.89	1/4	975.48	1/4	617.47	1/4	256.08	1/4		1/4		1/4		1/4	
1/2	2,039.17	1/2	1,677.77	1/2	1,316.36	1/2	968.29	1/2	609.94	1/2	248.55	1/2		1/2		1/2		1/2	
3/4	2,031.64	3/4	1,670.24	3/4	1,308.83	3/4	961.11	3/4	602.41	3/4	241.02	3/4		3/4		3/4		3/4	
1	2,024.11	1	1,662.71	1	1,301.30	1	953.92	1	594.89	1	233.49	1		1		1		1	
1/4	2,016.58	1/4	1,655.18	1/4	1,293.77	1/4	946.73	1/4	587.36	1/4	225.96	1/4		1/4		1/4		1/4	
1/2	2,009.05	1/2	1,647.65	1/2	1,286.24	1/2	939.55	1/2	579.83	1/2	218.44	1/2		1/2		1/2		1/2	
3/4	2,001.53	3/4	1,640.12	3/4	1,278.71	3/4	932.36	3/4	572.30	3/4	210.91	3/4		3/4		3/4		3/4	
2	1,994.00	2	1,632.59	2	1,271.18	2	925.16	2	564.77	2	203.38	2		2		2		2	
1/4	1,986.47	1/4	1,625.06	1/4	1,263.65	1/4	917.97	1/4	557.24	1/4	195.85	1/4		1/4		1/4		1/4	
1/2	1,978.94	1/2	1,617.53	1/2	1,256.12	1/2	910.77	1/2	549.71	1/2	188.32	1/2		1/2		1/2		1/2	
3/4	1,971.41	3/4	1,610.00	3/4	1,248.60	3/4	903.57	3/4	542.18	3/4	180.79	3/4		3/4		3/4		3/4	
3	1,963.88	3	1,602.47	3	1,241.40	3	896.05	3	534.65	3	173.26	3		3		3		3	
1/4	1,956.35	1/4	1,594.94	1/4	1,234.20	1/4	888.52	1/4	527.12	1/4	165.73	1/4		1/4		1/4		1/4	
1/2	1,948.82	1/2	1,587.41	1/2	1,227.00	1/2	880.99	1/2	519.60	1/2	158.21	1/2		1/2		1/2		1/2	
3/4	1,941.29	3/4	1,579.88	3/4	1,219.80	3/4	873.46	3/4	512.07	3/4	150.68	3/4		3/4		3/4		3/4	
4	1,933.76	4	1,572.36	4	1,212.62	4	865.93	4	504.54	4	143.16	4		4		4		4	
1/4	1,926.23	1/4	1,564.83	1/4	1,205.43	1/4	858.40	1/4	497.01	1/4	135.64	1/4		1/4		1/4		1/4	
1/2	1,918.70	1/2	1,557.30	1/2	1,198.24	1/2	850.87	1/2	489.48	1/2	128.12	1/2		1/2		1/2		1/2	
3/4	1,911.17	3/4	1,549.77	3/4	1,191.06	3/4	843.34	3/4	481.95	3/4	120.60	3/4		3/4		3/4		3/4	
5	1,903.64	5	1,542.24	5	1,183.87	5	835.81	5	474.42	5	113.11	5		5		5		5	
1/4	1,896.12	1/4	1,534.71	1/4	1,176.69	1/4	828.28	1/4	466.89	1/4	105.62	1/4		1/4		1/4		1/4	
1/2	1,888.59	1/2	1,527.18	1/2	1,169.50	1/2	820.76	1/2	459.36	1/2	98.12	1/2		1/2		1/2		1/2	
3/4	1,881.06	3/4	1,519.65	3/4	1,162.31	3/4	813.23	3/4	451.83	3/4	90.63	3/4		3/4		3/4		3/4	
6	1,873.53	6	1,512.12	6	1,155.13	6	805.70	6	444.31	6	83.73	6		6		6		6	
1/4	1,866.00	1/4	1,504.59	1/4	1,147.94	1/4	798.17	1/4	436.78	1/4	76.83	1/4		1/4		1/4		1/4	
1/2	1,858.47	1/2	1,497.06	1/2	1,140.76	1/2	790.64	1/2	429.25	1/2	69.93	1/2		1/2		1/2		1/2	
3/4	1,850.94	3/4	1,489.53	3/4	1,133.57	3/4	783.11	3/4	421.72	3/4	63.03	3/4		3/4		3/4		3/4	
7	1,843.41	7	1,482.00	7	1,126.38	7	775.58	7	414.19	7	57.39	7		7		7		7	
1/4	1,835.88	1/4	1,474.47	1/4	1,119.20	1/4	768.05	1/4	406.66	1/4	51.74	1/4		1/4		1/4		1/4	
1/2	1,828.35	1/2	1,466.95	1/2	1,112.01	1/2	760.52	1/2	399.13	1/2	46.10	1/2		1/2		1/2		1/2	
3/4	1,820.82	3/4	1,459.42	3/4	1,104.83	3/4	752.99	3/4	391.60	3/4	40.45	3/4		3/4		3/4		3/4	
8	1,813.29	8	1,451.89	8	1,097.64	8	745.47	8	384.07	8	36.06	8		8		8		8	
1/4	1,805.76	1/4	1,444.36	1/4	1,090.45	1/4	737.94	1/4	376.54	1/4	31.67	1/4		1/4		1/4		1/4	
1/2	1,798.23	1/2	1,436.83	1/2	1,083.27	1/2	730.41	1/2	369.02	1/2	27.28	1/2		1/2		1/2		1/2	
3/4	1,790.71	3/4	1,429.30	3/4	1,076.08	3/4	722.88	3/4	361.49	3/4	22.89	3/4		3/4		3/4		3/4	
9	1,783.18	9	1,421.77	9	1,068.90	9	715.35	9	353.96	9		9		9		9		9	
1/4	1,775.65	1/4	1,414.24	1/4	1,061.71	1/4	707.82	1/4	346.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,768.12	1/2	1,406.71	1/2	1,054.52	1/2	700.29	1/2	338.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,760.59	3/4	1,399.18	3/4	1,047.34	3/4	692.76	3/4	331.37	3/4		3/4		3/4		3/4		3/4	
10	1,753.06	10	1,391.65	10	1,040.15	10	685.23	10	323.84	10		10		10		10		10	
1/4	1,745.53	1/4	1,384.12	1/4	1,032.97	1/4	677.70	1/4	316.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,738.00	1/2	1,376.59	1/2	1,025.78	1/2	670.18	1/2	308.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,730.47	3/4	1,369.06	3/4	1,018.59	3/4	662.65	3/4	301.25	3/4		3/4		3/4		3/4		3/4	
11	1,722.94	11	1,361.54	11	1,011.41	11	655.12	11	293.73	11		11		11		11		11	
1/4	1,715.41	1/4	1,354.01	1/4	1,004.22	1/4	647.59	1/4	286.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,707.88	1/2	1,346.48	1/2	997.04	1/2	640.06	1/2	278.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,700.35	3/4	1,338.95	3/4	989.85	3/4	632.53	3/4	271.14	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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



BARGE "NGL 3006"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	4,262.02	0	4,077.67	0	3,885.09	0	3,691.53	0	3,491.11	0	3,133.17	0	2,773.98	0	2,414.15
1/4		1/4		1/4	4,258.28	1/4	4,073.73	1/4	3,881.05	1/4	3,687.50	1/4	3,483.65	1/4	3,125.69	1/4	2,766.48	1/4	2,406.66
1/2		1/2	4,409.40	1/2	4,254.54	1/2	4,069.78	1/2	3,877.02	1/2	3,683.47	1/2	3,476.18	1/2	3,118.21	1/2	2,758.98	1/2	2,399.16
3/4		3/4	4,408.53	3/4	4,250.78	3/4	4,065.82	3/4	3,872.99	3/4	3,679.43	3/4	3,468.72	3/4	3,110.73	3/4	2,751.49	3/4	2,391.66
1		1	4,407.66	1	4,247.03	1	4,061.86	1	3,868.96	1	3,675.40	1	3,461.26	1	3,103.24	1	2,743.99	1	2,384.16
1/4		1/4	4,406.79	1/4	4,243.27	1/4	4,057.90	1/4	3,864.92	1/4	3,671.37	1/4	3,453.79	1/4	3,095.76	1/4	2,736.50	1/4	2,376.67
1/2		1/2	4,405.92	1/2	4,239.52	1/2	4,053.94	1/2	3,860.89	1/2	3,667.34	1/2	3,446.33	1/2	3,088.28	1/2	2,729.00	1/2	2,369.17
3/4		3/4	4,403.82	3/4	4,235.74	3/4	4,049.96	3/4	3,856.86	3/4	3,663.30	3/4	3,438.86	3/4	3,080.80	3/4	2,721.50	3/4	2,361.67
2		2	4,401.71	2	4,231.97	2	4,045.98	2	3,852.83	2	3,659.27	2	3,431.40	2	3,073.31	2	2,714.01	2	2,354.18
1/4		1/4	4,399.60	1/4	4,228.20	1/4	4,042.01	1/4	3,848.79	1/4	3,655.24	1/4	3,423.93	1/4	3,065.83	1/4	2,706.51	1/4	2,346.68
1/2		1/2	4,397.50	1/2	4,224.43	1/2	4,038.03	1/2	3,844.76	1/2	3,651.21	1/2	3,416.47	1/2	3,058.35	1/2	2,699.02	1/2	2,339.18
3/4		3/4	4,394.57	3/4	4,220.64	3/4	4,034.04	3/4	3,840.73	3/4	3,647.17	3/4	3,409.01	3/4	3,050.86	3/4	2,691.52	3/4	2,331.69
3		3	4,391.63	3	4,216.85	3	4,030.04	3	3,836.70	3	3,643.14	3	3,401.54	3	3,043.38	3	2,684.03	3	2,324.19
1/4		1/4	4,388.70	1/4	4,213.07	1/4	4,026.05	1/4	3,832.66	1/4	3,639.11	1/4	3,394.08	1/4	3,035.90	1/4	2,676.53	1/4	2,316.69
1/2		1/2	4,385.77	1/2	4,209.28	1/2	4,022.06	1/2	3,828.63	1/2	3,635.08	1/2	3,386.61	1/2	3,028.42	1/2	2,669.04	1/2	2,309.20
3/4		3/4	4,382.23	3/4	4,205.48	3/4	4,018.05	3/4	3,824.60	3/4	3,631.04	3/4	3,379.15	3/4	3,020.93	3/4	2,661.54	3/4	2,301.70
4		4	4,378.69	4	4,201.67	4	4,014.04	4	3,820.57	4	3,627.01	4	3,371.69	4	3,013.45	4	2,654.04	4	2,294.20
1/4		1/4	4,375.15	1/4	4,197.87	1/4	4,010.03	1/4	3,816.53	1/4	3,622.98	1/4	3,364.22	1/4	3,005.97	1/4	2,646.55	1/4	2,286.70
1/2		1/2	4,371.62	1/2	4,194.07	1/2	4,006.03	1/2	3,812.50	1/2	3,618.95	1/2	3,356.76	1/2	2,998.49	1/2	2,639.05	1/2	2,279.21
3/4		3/4	4,368.04	3/4	4,190.25	3/4	4,002.00	3/4	3,808.47	3/4	3,614.91	3/4	3,349.29	3/4	2,991.00	3/4	2,631.56	3/4	2,271.71
5		5	4,364.46	5	4,186.43	5	3,997.98	5	3,804.44	5	3,610.88	5	3,341.83	5	2,983.52	5	2,624.06	5	2,264.21
1/4		1/4	4,360.88	1/4	4,182.61	1/4	3,993.95	1/4	3,800.41	1/4	3,606.85	1/4	3,334.37	1/4	2,976.04	1/4	2,616.57	1/4	2,256.72
1/2		1/2	4,357.30	1/2	4,178.79	1/2	3,989.93	1/2	3,796.37	1/2	3,602.82	1/2	3,326.90	1/2	2,968.56	1/2	2,609.07	1/2	2,249.22
3/4		3/4	4,353.69	3/4	4,174.95	3/4	3,985.90	3/4	3,792.34	3/4	3,598.79	3/4	3,319.45	3/4	2,961.07	3/4	2,601.57	3/4	2,241.72
6		6	4,350.09	6	4,171.12	6	3,981.86	6	3,788.31	6	3,594.75	6	3,312.00	6	2,953.59	6	2,594.08	6	2,234.23
1/4		1/4	4,346.48	1/4	4,167.28	1/4	3,977.83	1/4	3,784.28	1/4	3,590.72	1/4	3,304.56	1/4	2,946.11	1/4	2,586.58	1/4	2,226.73
1/2		1/2	4,342.88	1/2	4,163.45	1/2	3,973.80	1/2	3,780.24	1/2	3,586.69	1/2	3,297.11	1/2	2,938.62	1/2	2,579.08	1/2	2,219.23
3/4		3/4	4,339.26	3/4	4,159.60	3/4	3,969.77	3/4	3,776.21	3/4	3,582.66	3/4	3,289.66	3/4	2,931.14	3/4	2,571.59	3/4	2,211.74
7		7	4,335.63	7	4,155.75	7	3,965.73	7	3,772.18	7	3,578.62	7	3,282.21	7	2,923.66	7	2,564.09	7	2,204.24
1/4		1/4	4,332.01	1/4	4,151.90	1/4	3,961.70	1/4	3,768.15	1/4	3,574.59	1/4	3,274.76	1/4	2,916.18	1/4	2,556.59	1/4	2,196.74
1/2		1/2	4,328.39	1/2	4,148.05	1/2	3,957.67	1/2	3,764.11	1/2	3,570.56	1/2	3,267.31	1/2	2,908.69	1/2	2,549.10	1/2	2,189.25
3/4		3/4	4,324.75	3/4	4,144.16	3/4	3,953.64	3/4	3,760.08	3/4	3,566.53	3/4	3,259.87	3/4	2,901.21	3/4	2,541.60	3/4	2,181.75
8		8	4,321.11	8	4,140.28	8	3,949.60	8	3,756.05	8	3,562.49	8	3,252.42	8	2,893.73	8	2,534.10	8	2,174.25
1/4		1/4	4,317.48	1/4	4,136.40	1/4	3,945.57	1/4	3,752.02	1/4	3,558.46	1/4	3,244.97	1/4	2,886.25	1/4	2,526.61	1/4	2,166.75
1/2		1/2	4,313.84	1/2	4,132.52	1/2	3,941.54	1/2	3,747.98	1/2	3,554.43	1/2	3,237.52	1/2	2,878.76	1/2	2,519.11	1/2	2,159.26
3/4		3/4	4,310.19	3/4	4,128.62	3/4	3,937.51	3/4	3,743.95	3/4	3,550.40	3/4	3,230.07	3/4	2,871.28	3/4	2,511.61	3/4	2,151.76
9		9	4,306.53	9	4,124.72	9	3,933.47	9	3,739.92	9	3,546.36	9	3,222.62	9	2,863.80	9	2,504.11	9	2,144.26
1/4		1/4	4,302.88	1/4	4,120.83	1/4	3,929.44	1/4	3,735.89	1/4	3,542.33	1/4	3,215.18	1/4	2,856.31	1/4	2,496.62	1/4	2,136.77
1/2		1/2	4,299.22	1/2	4,116.93	1/2	3,925.41	1/2	3,731.85	1/2	3,538.30	1/2	3,207.73	1/2	2,848.83	1/2	2,489.12	1/2	2,129.27
3/4		3/4	4,295.52	3/4	4,113.02	3/4	3,921.38	3/4	3,727.82	3/4	3,534.27	3/4	3,200.28	3/4	2,841.35	3/4	2,481.62	3/4	2,121.77
10		10	4,291.81	10	4,109.10	10	3,917.34	10	3,723.79	10	3,530.23	10	3,192.83	10	2,833.87	10	2,474.13	10	2,114.28
1/4		1/4	4,288.10	1/4	4,105.19	1/4	3,913.31	1/4	3,719.76	1/4	3,526.20	1/4	3,185.38	1/4	2,826.38	1/4	2,466.63	1/4	2,106.78
1/2		1/2	4,284.39	1/2	4,101.28	1/2	3,909.28	1/2	3,715.72	1/2	3,522.17	1/2	3,177.93	1/2	2,818.90	1/2	2,459.13	1/2	2,099.28
3/4		3/4	4,280.67	3/4	4,097.35	3/4	3,905.25	3/4	3,711.69	3/4	3,518.14	3/4	3,170.49	3/4	2,811.42	3/4	2,451.64	3/4	2,091.79
11		11	4,276.94	11	4,093.42	11	3,901.22	11	3,707.66	11	3,514.10	11	3,163.04	11	2,803.94	11	2,444.14	11	2,084.29
1/4		1/4	4,273.22	1/4	4,089.49	1/4	3,897.18	1/4	3,703.63	1/4	3,510.07	1/4	3,155.59	1/4	2,796.45	1/4	2,436.64	1/4	2,076.79
1/2		1/2	4,269.50	1/2	4,085.56	1/2	3,893.15	1/2	3,699.60	1/2	3,506.04	1/2	3,148.14	1/2	2,788.97	1/2	2,429.15	1/2	2,069.29
3/4		3/4	4,265.76	3/4	4,081.62	3/4	3,889.12	3/4	3,695.56	3/4	3,498.58	3/4	3,140.66	3/4	2,781.47	3/4	2,421.65	3/4	2,061.80

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "NGL 3006"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	2,054.30	0	1,694.37	0	1,334.44	0	974.80	0	614.96	0	255.04	0		0		0		0	
1/4	2,046.80	1/4	1,686.87	1/4	1,326.94	1/4	967.31	1/4	607.46	1/4	247.54	1/4		1/4	1/4	1/4		1/4	
1/2	2,039.31	1/2	1,679.37	1/2	1,319.44	1/2	959.82	1/2	599.96	1/2	240.04	1/2		1/2	1/2	1/2		1/2	
3/4	2,031.81	3/4	1,671.88	3/4	1,311.94	3/4	952.33	3/4	592.46	3/4	232.54	3/4		3/4	3/4	3/4		3/4	
1	2,024.31	1	1,664.38	1	1,304.44	1	944.84	1	584.96	1	225.04	1		1	1	1		1	
1/4	2,016.81	1/4	1,656.88	1/4	1,296.95	1/4	937.35	1/4	577.47	1/4	217.55	1/4		1/4	1/4	1/4		1/4	
1/2	2,009.31	1/2	1,649.38	1/2	1,289.45	1/2	929.86	1/2	569.97	1/2	210.05	1/2		1/2	1/2	1/2		1/2	
3/4	2,001.81	3/4	1,641.88	3/4	1,281.95	3/4	922.37	3/4	562.47	3/4	202.55	3/4		3/4	3/4	3/4		3/4	
2	1,994.32	2	1,634.38	2	1,274.45	2	914.88	2	554.97	2	195.05	2		2	2	2		2	
1/4	1,986.82	1/4	1,626.88	1/4	1,266.95	1/4	907.39	1/4	547.47	1/4	187.55	1/4		1/4	1/4	1/4		1/4	
1/2	1,979.32	1/2	1,619.39	1/2	1,259.45	1/2	899.89	1/2	539.97	1/2	180.06	1/2		1/2	1/2	1/2		1/2	
3/4	1,971.82	3/4	1,611.89	3/4	1,251.95	3/4	892.39	3/4	532.48	3/4	172.56	3/4		3/4	3/4	3/4		3/4	
3	1,964.32	3	1,604.39	3	1,244.46	3	884.90	3	524.98	3	165.06	3		3	3	3		3	
1/4	1,956.82	1/4	1,596.89	1/4	1,236.96	1/4	877.40	1/4	517.48	1/4	157.56	1/4		1/4	1/4	1/4		1/4	
1/2	1,949.32	1/2	1,589.39	1/2	1,229.46	1/2	869.90	1/2	509.98	1/2	150.07	1/2		1/2	1/2	1/2		1/2	
3/4	1,941.83	3/4	1,581.89	3/4	1,221.96	3/4	862.40	3/4	502.48	3/4	142.58	3/4		3/4	3/4	3/4		3/4	
4	1,934.33	4	1,574.39	4	1,214.47	4	854.90	4	494.98	4	135.09	4		4	4	4		4	
1/4	1,926.83	1/4	1,566.90	1/4	1,206.97	1/4	847.40	1/4	487.49	1/4	127.60	1/4		1/4	1/4	1/4		1/4	
1/2	1,919.33	1/2	1,559.40	1/2	1,199.48	1/2	839.91	1/2	479.99	1/2	120.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,911.83	3/4	1,551.90	3/4	1,191.99	3/4	832.41	3/4	472.49	3/4	112.65	3/4		3/4	3/4	3/4		3/4	
5	1,904.33	5	1,544.40	5	1,184.50	5	824.91	5	464.99	5	105.19	5		5	5	5		5	
1/4	1,896.83	1/4	1,536.90	1/4	1,177.01	1/4	817.41	1/4	457.49	1/4	97.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,889.34	1/2	1,529.40	1/2	1,169.52	1/2	809.91	1/2	449.99	1/2	90.26	1/2		1/2	1/2	1/2		1/2	
3/4	1,881.84	3/4	1,521.90	3/4	1,162.03	3/4	802.41	3/4	442.50	3/4	83.39	3/4		3/4	3/4	3/4		3/4	
6	1,874.34	6	1,514.41	6	1,154.54	6	794.92	6	435.00	6	76.52	6		6	6	6		6	
1/4	1,866.84	1/4	1,506.91	1/4	1,147.05	1/4	787.42	1/4	427.50	1/4	69.65	1/4		1/4	1/4	1/4		1/4	
1/2	1,859.34	1/2	1,499.41	1/2	1,139.56	1/2	779.92	1/2	420.00	1/2	62.78	1/2		1/2	1/2	1/2		1/2	
3/4	1,851.84	3/4	1,491.91	3/4	1,132.07	3/4	772.42	3/4	412.50	3/4	57.15	3/4		3/4	3/4	3/4		3/4	
7	1,844.34	7	1,484.41	7	1,124.58	7	764.92	7	405.00	7	51.53	7		7	7	7		7	
1/4	1,836.84	1/4	1,476.91	1/4	1,117.09	1/4	757.42	1/4	397.51	1/4	45.91	1/4		1/4	1/4	1/4		1/4	
1/2	1,829.35	1/2	1,469.41	1/2	1,109.61	1/2	749.93	1/2	390.01	1/2	40.29	1/2		1/2	1/2	1/2		1/2	
3/4	1,821.85	3/4	1,461.91	3/4	1,102.12	3/4	742.43	3/4	382.51	3/4	35.91	3/4		3/4	3/4	3/4		3/4	
8	1,814.35	8	1,454.42	8	1,094.63	8	734.93	8	375.01	8	31.54	8		8	8	8		8	
1/4	1,806.85	1/4	1,446.92	1/4	1,087.14	1/4	727.43	1/4	367.51	1/4	27.17	1/4		1/4	1/4	1/4		1/4	
1/2	1,799.35	1/2	1,439.42	1/2	1,079.65	1/2	719.93	1/2	360.01	1/2	22.80	1/2		1/2	1/2	1/2		1/2	
3/4	1,791.85	3/4	1,431.92	3/4	1,072.16	3/4	712.43	3/4	352.52	3/4		3/4		3/4	3/4	3/4		3/4	
9	1,784.35	9	1,424.42	9	1,064.67	9	704.94	9	345.02	9		9		9	9	9		9	
1/4	1,776.86	1/4	1,416.92	1/4	1,057.18	1/4	697.44	1/4	337.52	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,769.36	1/2	1,409.42	1/2	1,049.69	1/2	689.94	1/2	330.02	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,761.86	3/4	1,401.93	3/4	1,042.20	3/4	682.44	3/4	322.52	3/4		3/4		3/4	3/4	3/4		3/4	
10	1,754.36	10	1,394.43	10	1,034.71	10	674.94	10	315.02	10		10		10	10	10		10	
1/4	1,746.86	1/4	1,386.93	1/4	1,027.22	1/4	667.44	1/4	307.53	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,739.36	1/2	1,379.43	1/2	1,019.74	1/2	659.95	1/2	300.03	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,731.86	3/4	1,371.93	3/4	1,012.25	3/4	652.45	3/4	292.53	3/4		3/4		3/4	3/4	3/4		3/4	
11	1,724.37	11	1,364.43	11	1,004.76	11	644.95	11	285.03	11		11		11	11	11		11	
1/4	1,716.87	1/4	1,356.93	1/4	997.27	1/4	637.45	1/4	277.53	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,709.37	1/2	1,349.44	1/2	989.78	1/2	629.95	1/2	270.03	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,701.87	3/4	1,341.94	3/4	982.29	3/4	622.45	3/4	262.54	3/4		3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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



BARGE "NGL 3006"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	4,231.08	0	4,047.20	0	3,855.20	0	3,662.31	0	3,459.14	0	3,101.85	0	2,743.49	0	2,384.34
1/4	1/4	4,381.54	1/4	4,227.35	1/4	4,043.27	1/4	3,851.18	1/4	3,658.30	1/4	3,451.69	1/4	3,094.38	1/4	2,736.01	1/4	2,376.86	
1/2	1/2	4,380.68	1/2	4,223.61	1/2	4,039.32	1/2	3,847.16	1/2	3,654.28	1/2	3,444.24	1/2	3,086.91	1/2	2,728.53	1/2	2,369.38	
3/4	3/4	4,379.83	3/4	4,219.87	3/4	4,035.37	3/4	3,843.14	3/4	3,650.26	3/4	3,436.79	3/4	3,079.44	3/4	2,721.05	3/4	2,361.90	
1	1	4,378.97	1	4,216.13	1	4,031.42	1	3,839.12	1	3,646.24	1	3,429.34	1	3,071.98	1	2,713.56	1	2,354.41	
1/4	1/4	4,378.12	1/4	4,212.38	1/4	4,027.48	1/4	3,835.10	1/4	3,642.22	1/4	3,421.89	1/4	3,064.51	1/4	2,706.08	1/4	2,346.93	
1/2	1/2	4,376.03	1/2	4,208.63	1/2	4,023.52	1/2	3,831.09	1/2	3,638.20	1/2	3,414.44	1/2	3,057.05	1/2	2,698.60	1/2	2,339.45	
3/4	3/4	4,373.93	3/4	4,204.87	3/4	4,019.55	3/4	3,827.07	3/4	3,634.18	3/4	3,406.99	3/4	3,049.59	3/4	2,691.12	3/4	2,331.96	
2	2	4,371.84	2	4,201.11	2	4,015.59	2	3,823.05	2	3,630.17	2	3,399.54	2	3,042.12	2	2,683.64	2	2,324.48	
1/4	1/4	4,369.75	1/4	4,197.35	1/4	4,011.63	1/4	3,819.03	1/4	3,626.15	1/4	3,392.09	1/4	3,034.66	1/4	2,676.16	1/4	2,317.00	
1/2	1/2	4,366.83	1/2	4,193.58	1/2	4,007.65	1/2	3,815.01	1/2	3,622.13	1/2	3,384.64	1/2	3,027.20	1/2	2,668.68	1/2	2,309.52	
3/4	3/4	4,363.92	3/4	4,189.81	3/4	4,003.67	3/4	3,810.99	3/4	3,618.11	3/4	3,377.19	3/4	3,019.74	3/4	2,661.20	3/4	2,302.03	
3	3	4,361.00	3	4,186.03	3	3,999.69	3	3,806.98	3	3,614.09	3	3,369.74	3	3,012.28	3	2,653.71	3	2,294.55	
1/4	1/4	4,358.08	1/4	4,182.26	1/4	3,995.71	1/4	3,802.96	1/4	3,610.07	1/4	3,362.29	1/4	3,004.82	1/4	2,646.23	1/4	2,287.07	
1/2	1/2	4,354.55	1/2	4,178.47	1/2	3,991.72	1/2	3,798.94	1/2	3,606.06	1/2	3,354.84	1/2	2,997.36	1/2	2,638.75	1/2	2,279.58	
3/4	3/4	4,351.03	3/4	4,174.68	3/4	3,987.72	3/4	3,794.92	3/4	3,602.04	3/4	3,347.39	3/4	2,989.90	3/4	2,631.27	3/4	2,272.10	
4	4	4,347.50	4	4,170.89	4	3,983.73	4	3,790.90	4	3,598.02	4	3,339.94	4	2,982.44	4	2,623.79	4	2,264.62	
1/4	1/4	4,343.98	1/4	4,167.10	1/4	3,979.73	1/4	3,786.88	1/4	3,594.00	1/4	3,332.49	1/4	2,974.97	1/4	2,616.31	1/4	2,257.14	
1/2	1/2	4,340.41	1/2	4,163.30	1/2	3,975.72	1/2	3,782.87	1/2	3,589.98	1/2	3,325.04	1/2	2,967.51	1/2	2,608.83	1/2	2,249.65	
3/4	3/4	4,336.85	3/4	4,159.49	3/4	3,971.71	3/4	3,778.85	3/4	3,585.96	3/4	3,317.59	3/4	2,960.05	3/4	2,601.35	3/4	2,242.17	
5	5	4,333.28	5	4,155.69	5	3,967.70	5	3,774.83	5	3,581.95	5	3,310.14	5	2,952.59	5	2,593.86	5	2,234.69	
1/4	1/4	4,329.72	1/4	4,151.88	1/4	3,963.69	1/4	3,770.81	1/4	3,577.93	1/4	3,302.69	1/4	2,945.13	1/4	2,586.38	1/4	2,227.20	
1/2	1/2	4,326.13	1/2	4,148.06	1/2	3,959.68	1/2	3,766.79	1/2	3,573.91	1/2	3,295.25	1/2	2,937.67	1/2	2,578.90	1/2	2,219.72	
3/4	3/4	4,322.53	3/4	4,144.24	3/4	3,955.66	3/4	3,762.77	3/4	3,569.89	3/4	3,287.82	3/4	2,930.21	3/4	2,571.42	3/4	2,212.24	
6	6	4,318.94	6	4,140.42	6	3,951.64	6	3,758.76	6	3,565.87	6	3,280.38	6	2,922.75	6	2,563.93	6	2,204.75	
1/4	1/4	4,315.35	1/4	4,136.60	1/4	3,947.62	1/4	3,754.74	1/4	3,561.85	1/4	3,272.95	1/4	2,915.29	1/4	2,556.45	1/4	2,197.27	
1/2	1/2	4,311.75	1/2	4,132.76	1/2	3,943.60	1/2	3,750.72	1/2	3,557.84	1/2	3,265.51	1/2	2,907.82	1/2	2,548.97	1/2	2,189.79	
3/4	3/4	4,308.14	3/4	4,128.92	3/4	3,939.58	3/4	3,746.70	3/4	3,553.82	3/4	3,258.08	3/4	2,900.36	3/4	2,541.49	3/4	2,182.31	
7	7	4,304.53	7	4,125.09	7	3,935.56	7	3,742.68	7	3,549.80	7	3,250.64	7	2,892.90	7	2,534.00	7	2,174.82	
1/4	1/4	4,300.92	1/4	4,121.25	1/4	3,931.55	1/4	3,738.66	1/4	3,545.78	1/4	3,243.21	1/4	2,885.44	1/4	2,526.52	1/4	2,167.34	
1/2	1/2	4,297.30	1/2	4,117.38	1/2	3,927.53	1/2	3,734.64	1/2	3,541.76	1/2	3,235.78	1/2	2,877.97	1/2	2,519.04	1/2	2,159.86	
3/4	3/4	4,293.67	3/4	4,113.51	3/4	3,923.51	3/4	3,730.63	3/4	3,537.74	3/4	3,228.34	3/4	2,870.50	3/4	2,511.55	3/4	2,152.37	
8	8	4,290.05	8	4,109.65	8	3,919.49	8	3,726.61	8	3,533.72	8	3,220.91	8	2,863.03	8	2,504.07	8	2,144.89	
1/4	1/4	4,286.43	1/4	4,105.78	1/4	3,915.47	1/4	3,722.59	1/4	3,529.71	1/4	3,213.47	1/4	2,855.57	1/4	2,496.59	1/4	2,137.41	
1/2	1/2	4,282.79	1/2	4,101.90	1/2	3,911.45	1/2	3,718.57	1/2	3,525.69	1/2	3,206.04	1/2	2,848.10	1/2	2,489.11	1/2	2,129.93	
3/4	3/4	4,279.15	3/4	4,098.01	3/4	3,907.44	3/4	3,714.55	3/4	3,521.67	3/4	3,198.60	3/4	2,840.63	3/4	2,481.62	3/4	2,122.44	
9	9	4,275.51	9	4,094.13	9	3,903.42	9	3,710.53	9	3,517.65	9	3,191.17	9	2,833.16	9	2,474.14	9	2,114.96	
1/4	1/4	4,271.87	1/4	4,090.25	1/4	3,899.40	1/4	3,706.52	1/4	3,513.63	1/4	3,183.73	1/4	2,825.69	1/4	2,466.66	1/4	2,107.48	
1/2	1/2	4,268.17	1/2	4,086.35	1/2	3,895.38	1/2	3,702.50	1/2	3,509.61	1/2	3,176.30	1/2	2,818.22	1/2	2,459.17	1/2	2,099.99	
3/4	3/4	4,264.48	3/4	4,082.45	3/4	3,891.36	3/4	3,698.48	3/4	3,505.60	3/4	3,168.86	3/4	2,810.75	3/4	2,451.69	3/4	2,092.51	
10	10	4,260.79	10	4,078.55	10	3,887.34	10	3,694.46	10	3,501.58	10	3,161.43	10	2,803.29	10	2,444.21	10	2,085.03	
1/4	1/4	4,257.09	1/4	4,074.65	1/4	3,883.33	1/4	3,690.44	1/4	3,497.56	1/4	3,154.00	1/4	2,795.82	1/4	2,436.72	1/4	2,077.55	
1/2	1/2	4,253.38	1/2	4,070.73	1/2	3,879.31	1/2	3,686.42	1/2	3,493.54	1/2	3,146.56	1/2	2,788.35	1/2	2,429.24	1/2	2,070.06	
3/4	3/4	4,249.67	3/4	4,066.82	3/4	3,875.29	3/4	3,682.41	3/4	3,489.52	3/4	3,139.13	3/4	2,780.88	3/4	2,421.76	3/4	2,062.58	
11	11	4,245.96	11	4,062.90	11	3,871.27	11	3,678.39	11	3,485.50	11	3,131.69	11	2,773.41	11	2,414.28	11	2,055.10	
1/4	1/4	4,242.25	1/4	4,058.99	1/4	3,867.25	1/4	3,674.37	1/4	3,481.49	1/4	3,124.26	1/4	2,765.94	1/4	2,406.79	1/4	2,047.61	
1/2	1/2	4,238.53	1/2	4,055.06	1/2	3,863.23	1/2	3,670.35	1/2	3,474.04	1/2	3,116.79	1/2	2,758.46	1/2	2,399.31	1/2	2,040.13	
3/4	3/4	4,234.80	3/4	4,051.13	3/4	3,859.22	3/4	3,666.33	3/4	3,466.59	3/4	3,109.32	3/4	2,750.98	3/4	2,391.83	3/4	2,032.65	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "NGL 3006"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HSM 1002"

GAUGE HEIGHT 15'-08 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	2,025.17	0	1,665.91	0	1,308.06	0	959.26	0	606.56	0	247.20	0		0		0		0	
1/4	2,017.68	1/4	1,658.42	1/4	1,300.64	1/4	952.11	1/4	599.07	1/4	239.71	1/4		1/4	1/4		1/4	1/4	1/4
1/2	2,010.20	1/2	1,650.94	1/2	1,293.22	1/2	944.96	1/2	591.59	1/2	232.22	1/2		1/2	1/2		1/2	1/2	1/2
3/4	2,002.71	3/4	1,643.45	3/4	1,285.80	3/4	937.81	3/4	584.10	3/4	224.74	3/4		3/4	3/4		3/4	3/4	3/4
1	1,995.23	1	1,635.97	1	1,278.37	1	930.66	1	576.61	1	217.25	1		1		1		1	
1/4	1,987.74	1/4	1,628.48	1/4	1,270.95	1/4	923.52	1/4	569.13	1/4	209.76	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,980.26	1/2	1,621.00	1/2	1,263.53	1/2	916.36	1/2	561.64	1/2	202.28	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,972.77	3/4	1,613.51	3/4	1,256.10	3/4	909.21	3/4	554.15	3/4	194.79	3/4		3/4	3/4		3/4	3/4	3/4
2	1,965.29	2	1,606.03	2	1,248.68	2	902.06	2	546.67	2	187.30	2		2		2		2	
1/4	1,957.81	1/4	1,598.54	1/4	1,241.26	1/4	894.91	1/4	539.18	1/4	179.82	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,950.32	1/2	1,591.06	1/2	1,233.85	1/2	887.73	1/2	531.69	1/2	172.33	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,942.84	3/4	1,583.58	3/4	1,226.45	3/4	880.56	3/4	524.21	3/4	164.85	3/4		3/4	3/4		3/4	3/4	3/4
3	1,935.35	3	1,576.09	3	1,219.04	3	873.38	3	516.72	3	157.36	3		3		3		3	
1/4	1,927.87	1/4	1,568.61	1/4	1,211.63	1/4	866.21	1/4	509.23	1/4	149.88	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,920.38	1/2	1,561.12	1/2	1,204.23	1/2	859.03	1/2	501.75	1/2	142.39	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,912.90	3/4	1,553.64	3/4	1,196.83	3/4	851.86	3/4	494.26	3/4	134.91	3/4		3/4	3/4		3/4	3/4	3/4
4	1,905.41	4	1,546.15	4	1,189.42	4	844.69	4	486.77	4	127.43	4		4		4		4	
1/4	1,897.93	1/4	1,538.67	1/4	1,182.02	1/4	837.51	1/4	479.29	1/4	119.95	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,890.44	1/2	1,531.18	1/2	1,174.59	1/2	830.31	1/2	471.80	1/2	112.49	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,882.96	3/4	1,523.70	3/4	1,167.15	3/4	823.11	3/4	464.31	3/4	105.04	3/4		3/4	3/4		3/4	3/4	3/4
5	1,875.48	5	1,516.21	5	1,159.72	5	815.90	5	456.83	5	97.59	5		5		5		5	
1/4	1,867.99	1/4	1,508.73	1/4	1,152.29	1/4	808.70	1/4	449.34	1/4	90.14	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,860.51	1/2	1,501.25	1/2	1,145.14	1/2	801.21	1/2	441.85	1/2	83.29	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,853.02	3/4	1,493.76	3/4	1,137.99	3/4	793.73	3/4	434.37	3/4	76.44	3/4		3/4	3/4		3/4	3/4	3/4
6	1,845.54	6	1,486.28	6	1,130.84	6	786.24	6	426.88	6	69.59	6		6		6		6	
1/4	1,838.05	1/4	1,478.79	1/4	1,123.69	1/4	778.75	1/4	419.39	1/4	62.74	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,830.57	1/2	1,471.37	1/2	1,116.54	1/2	771.27	1/2	411.90	1/2	57.13	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,823.08	3/4	1,463.95	3/4	1,109.39	3/4	763.78	3/4	404.42	3/4	51.52	3/4		3/4	3/4		3/4	3/4	3/4
7	1,815.60	7	1,456.52	7	1,102.24	7	756.29	7	396.93	7	45.90	7		7		7		7	
1/4	1,808.11	1/4	1,449.10	1/4	1,095.09	1/4	748.81	1/4	389.44	1/4	40.29	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,800.63	1/2	1,441.68	1/2	1,087.94	1/2	741.32	1/2	381.96	1/2	35.92	1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,793.14	3/4	1,434.25	3/4	1,080.80	3/4	733.83	3/4	374.47	3/4	31.55	3/4		3/4	3/4		3/4	3/4	3/4
8	1,785.66	8	1,426.83	8	1,073.65	8	726.35	8	366.98	8	27.17	8		8		8		8	
1/4	1,778.18	1/4	1,419.41	1/4	1,066.50	1/4	718.86	1/4	359.50	1/4	22.80	1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,770.69	1/2	1,411.99	1/2	1,059.35	1/2	711.37	1/2	352.01	1/2		1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,763.21	3/4	1,404.56	3/4	1,052.20	3/4	703.89	3/4	344.52	3/4		3/4		3/4	3/4		3/4	3/4	3/4
9	1,755.72	9	1,397.14	9	1,045.05	9	696.40	9	337.04	9		9		9		9		9	
1/4	1,748.24	1/4	1,389.72	1/4	1,037.90	1/4	688.91	1/4	329.55	1/4		1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,740.75	1/2	1,382.29	1/2	1,030.75	1/2	681.43	1/2	322.06	1/2		1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,733.27	3/4	1,374.87	3/4	1,023.60	3/4	673.94	3/4	314.58	3/4		3/4		3/4	3/4		3/4	3/4	3/4
10	1,725.78	10	1,367.45	10	1,016.45	10	666.45	10	307.09	10		10		10		10		10	
1/4	1,718.30	1/4	1,360.02	1/4	1,009.30	1/4	658.97	1/4	299.60	1/4		1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,710.81	1/2	1,352.60	1/2	1,002.16	1/2	651.48	1/2	292.12	1/2		1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,703.33	3/4	1,345.18	3/4	995.01	3/4	643.99	3/4	284.63	3/4		3/4		3/4	3/4		3/4	3/4	3/4
11	1,695.84	11	1,337.76	11	987.86	11	636.51	11	277.14	11		11		11		11		11	
1/4	1,688.36	1/4	1,330.33	1/4	980.71	1/4	629.02	1/4	269.66	1/4		1/4		1/4	1/4		1/4	1/4	1/4
1/2	1,680.88	1/2	1,322.91	1/2	973.56	1/2	621.53	1/2	262.17	1/2		1/2		1/2	1/2		1/2	1/2	1/2
3/4	1,673.39	3/4	1,315.49	3/4	966.41	3/4	614.05	3/4	254.68	3/4		3/4		3/4	3/4		3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/31/2013 CL
CALCULATED: 11/01/2013 CL
NAME CHANGE: 01/31/2018

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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