



BARGE "HSM 3004"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 23, 2016

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

<http://www.pmacorp.net>



BARGE "HSM 3004"

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 | 199,940 | 0 | 184,933 | 0 | 169,909 | 0 | 154,857 | 0 | 139,805 | 0 | 124,754 | 0 | 109,702 | 0 | 94,645 |
| 1/4 | | 1/4 | | 1/4 | 199,628 | 1/4 | 184,620 | 1/4 | 169,595 | 1/4 | 154,543 | 1/4 | 139,492 | 1/4 | 124,440 | 1/4 | 109,388 | 1/4 | 94,331 |
| 1/2 | | 1/2 | | 1/2 | 199,315 | 1/2 | 184,307 | 1/2 | 169,281 | 1/2 | 154,230 | 1/2 | 139,178 | 1/2 | 124,126 | 1/2 | 109,075 | 1/2 | 94,017 |
| 3/4 | | 3/4 | | 3/4 | 199,002 | 3/4 | 183,995 | 3/4 | 168,968 | 3/4 | 153,916 | 3/4 | 138,864 | 3/4 | 123,813 | 3/4 | 108,761 | 3/4 | 93,703 |
| 1 | | 1 | | 1 | 198,690 | 1 | 183,682 | 1 | 168,654 | 1 | 153,603 | 1 | 138,551 | 1 | 123,499 | 1 | 108,448 | 1 | 93,390 |
| 1/4 | | 1/4 | | 1/4 | 198,377 | 1/4 | 183,369 | 1/4 | 168,341 | 1/4 | 153,289 | 1/4 | 138,237 | 1/4 | 123,186 | 1/4 | 108,134 | 1/4 | 93,076 |
| 1/2 | | 1/2 | | 1/2 | 198,065 | 1/2 | 183,057 | 1/2 | 168,027 | 1/2 | 152,975 | 1/2 | 137,924 | 1/2 | 122,872 | 1/2 | 107,820 | 1/2 | 92,762 |
| 3/4 | | 3/4 | | 3/4 | 197,752 | 3/4 | 182,744 | 3/4 | 167,713 | 3/4 | 152,662 | 3/4 | 137,610 | 3/4 | 122,559 | 3/4 | 107,507 | 3/4 | 92,449 |
| 2 | | 2 | 211,394 | 2 | 197,439 | 2 | 182,431 | 2 | 167,400 | 2 | 152,348 | 2 | 137,297 | 2 | 122,245 | 2 | 107,193 | 2 | 92,135 |
| 1/4 | | 1/4 | 211,214 | 1/4 | 197,127 | 1/4 | 182,119 | 1/4 | 167,086 | 1/4 | 152,035 | 1/4 | 136,983 | 1/4 | 121,931 | 1/4 | 106,879 | 1/4 | 91,821 |
| 1/2 | | 1/2 | 211,034 | 1/2 | 196,814 | 1/2 | 181,806 | 1/2 | 166,773 | 1/2 | 151,721 | 1/2 | 136,669 | 1/2 | 121,618 | 1/2 | 106,566 | 1/2 | 91,507 |
| 3/4 | | 3/4 | 210,854 | 3/4 | 196,501 | 3/4 | 181,493 | 3/4 | 166,459 | 3/4 | 151,408 | 3/4 | 136,356 | 3/4 | 121,304 | 3/4 | 106,252 | 3/4 | 91,194 |
| 3 | | 3 | 210,674 | 3 | 196,189 | 3 | 181,181 | 3 | 166,146 | 3 | 151,094 | 3 | 136,042 | 3 | 120,991 | 3 | 105,938 | 3 | 90,880 |
| 1/4 | | 1/4 | 210,442 | 1/4 | 195,876 | 1/4 | 180,868 | 1/4 | 165,832 | 1/4 | 150,780 | 1/4 | 135,729 | 1/4 | 120,677 | 1/4 | 105,624 | 1/4 | 90,566 |
| 1/2 | | 1/2 | 210,210 | 1/2 | 195,563 | 1/2 | 180,555 | 1/2 | 165,518 | 1/2 | 150,467 | 1/2 | 135,415 | 1/2 | 120,363 | 1/2 | 105,311 | 1/2 | 90,253 |
| 3/4 | | 3/4 | 209,978 | 3/4 | 195,251 | 3/4 | 180,243 | 3/4 | 165,205 | 3/4 | 150,153 | 3/4 | 135,102 | 3/4 | 120,050 | 3/4 | 104,997 | 3/4 | 89,939 |
| 4 | | 4 | 209,745 | 4 | 194,938 | 4 | 179,930 | 4 | 164,891 | 4 | 149,840 | 4 | 134,788 | 4 | 119,736 | 4 | 104,683 | 4 | 89,625 |
| 1/4 | | 1/4 | 209,465 | 1/4 | 194,625 | 1/4 | 179,617 | 1/4 | 164,578 | 1/4 | 149,526 | 1/4 | 134,474 | 1/4 | 119,423 | 1/4 | 104,370 | 1/4 | 89,311 |
| 1/2 | | 1/2 | 209,184 | 1/2 | 194,313 | 1/2 | 179,305 | 1/2 | 164,264 | 1/2 | 149,212 | 1/2 | 134,161 | 1/2 | 119,109 | 1/2 | 104,056 | 1/2 | 88,998 |
| 3/4 | | 3/4 | 208,903 | 3/4 | 194,000 | 3/4 | 178,992 | 3/4 | 163,951 | 3/4 | 148,899 | 3/4 | 133,847 | 3/4 | 118,796 | 3/4 | 103,742 | 3/4 | 88,684 |
| 5 | | 5 | 208,622 | 5 | 193,687 | 5 | 178,679 | 5 | 163,637 | 5 | 148,585 | 5 | 133,534 | 5 | 118,482 | 5 | 103,428 | 5 | 88,370 |
| 1/4 | | 1/4 | 208,316 | 1/4 | 193,375 | 1/4 | 178,367 | 1/4 | 163,323 | 1/4 | 148,272 | 1/4 | 133,220 | 1/4 | 118,168 | 1/4 | 103,115 | 1/4 | 88,057 |
| 1/2 | | 1/2 | 208,010 | 1/2 | 193,062 | 1/2 | 178,054 | 1/2 | 163,010 | 1/2 | 147,958 | 1/2 | 132,907 | 1/2 | 117,855 | 1/2 | 102,801 | 1/2 | 87,743 |
| 3/4 | | 3/4 | 207,703 | 3/4 | 192,749 | 3/4 | 177,742 | 3/4 | 162,696 | 3/4 | 147,645 | 3/4 | 132,593 | 3/4 | 117,541 | 3/4 | 102,487 | 3/4 | 87,429 |
| 6 | | 6 | 207,397 | 6 | 192,437 | 6 | 177,429 | 6 | 162,383 | 6 | 147,331 | 6 | 132,279 | 6 | 117,228 | 6 | 102,174 | 6 | 87,115 |
| 1/4 | | 1/4 | 207,087 | 1/4 | 192,124 | 1/4 | 177,116 | 1/4 | 162,069 | 1/4 | 147,017 | 1/4 | 131,966 | 1/4 | 116,914 | 1/4 | 101,860 | 1/4 | 86,802 |
| 1/2 | | 1/2 | 206,776 | 1/2 | 191,811 | 1/2 | 176,804 | 1/2 | 161,756 | 1/2 | 146,704 | 1/2 | 131,652 | 1/2 | 116,601 | 1/2 | 101,546 | 1/2 | 86,488 |
| 3/4 | | 3/4 | 206,466 | 3/4 | 191,499 | 3/4 | 176,491 | 3/4 | 161,442 | 3/4 | 146,390 | 3/4 | 131,339 | 3/4 | 116,287 | 3/4 | 101,232 | 3/4 | 86,174 |
| 7 | | 7 | 206,156 | 7 | 191,186 | 7 | 176,178 | 7 | 161,128 | 7 | 146,077 | 7 | 131,025 | 7 | 115,973 | 7 | 100,919 | 7 | 85,861 |
| 1/4 | | 1/4 | 205,846 | 1/4 | 190,873 | 1/4 | 175,865 | 1/4 | 160,815 | 1/4 | 145,763 | 1/4 | 130,712 | 1/4 | 115,660 | 1/4 | 100,605 | 1/4 | 85,547 |
| 1/2 | | 1/2 | 205,535 | 1/2 | 190,561 | 1/2 | 175,552 | 1/2 | 160,501 | 1/2 | 145,450 | 1/2 | 130,398 | 1/2 | 115,346 | 1/2 | 100,291 | 1/2 | 85,233 |
| 3/4 | | 3/4 | 205,224 | 3/4 | 190,248 | 3/4 | 175,239 | 3/4 | 160,188 | 3/4 | 145,136 | 3/4 | 130,084 | 3/4 | 115,033 | 3/4 | 99,978 | 3/4 | 84,919 |
| 8 | | 8 | 204,914 | 8 | 189,935 | 8 | 174,926 | 8 | 159,874 | 8 | 144,822 | 8 | 129,771 | 8 | 114,719 | 8 | 99,664 | 8 | 84,606 |
| 1/4 | | 1/4 | 204,603 | 1/4 | 189,623 | 1/4 | 174,612 | 1/4 | 159,561 | 1/4 | 144,509 | 1/4 | 129,457 | 1/4 | 114,406 | 1/4 | 99,350 | 1/4 | 84,292 |
| 1/2 | | 1/2 | 204,293 | 1/2 | 189,310 | 1/2 | 174,299 | 1/2 | 159,247 | 1/2 | 144,195 | 1/2 | 129,144 | 1/2 | 114,092 | 1/2 | 99,037 | 1/2 | 83,978 |
| 3/4 | | 3/4 | 203,982 | 3/4 | 188,997 | 3/4 | 173,985 | 3/4 | 158,933 | 3/4 | 143,882 | 3/4 | 128,830 | 3/4 | 113,778 | 3/4 | 98,723 | 3/4 | 83,665 |
| 9 | | 9 | 203,671 | 9 | 188,685 | 9 | 173,671 | 9 | 158,620 | 9 | 143,568 | 9 | 128,516 | 9 | 113,465 | 9 | 98,409 | 9 | 83,351 |
| 1/4 | | 1/4 | 203,361 | 1/4 | 188,372 | 1/4 | 173,358 | 1/4 | 158,306 | 1/4 | 143,255 | 1/4 | 128,203 | 1/4 | 113,151 | 1/4 | 98,095 | 1/4 | 83,037 |
| 1/2 | | 1/2 | 203,050 | 1/2 | 188,059 | 1/2 | 173,044 | 1/2 | 157,993 | 1/2 | 142,941 | 1/2 | 127,889 | 1/2 | 112,838 | 1/2 | 97,782 | 1/2 | 82,723 |
| 3/4 | | 3/4 | 202,739 | 3/4 | 187,747 | 3/4 | 172,731 | 3/4 | 157,679 | 3/4 | 142,627 | 3/4 | 127,576 | 3/4 | 112,524 | 3/4 | 97,468 | 3/4 | 82,410 |
| 10 | | 10 | 202,429 | 10 | 187,434 | 10 | 172,417 | 10 | 157,365 | 10 | 142,314 | 10 | 127,262 | 10 | 112,211 | 10 | 97,154 | 10 | 82,096 |
| 1/4 | | 1/4 | 202,118 | 1/4 | 187,121 | 1/4 | 172,104 | 1/4 | 157,052 | 1/4 | 142,000 | 1/4 | 126,949 | 1/4 | 111,897 | 1/4 | 96,841 | 1/4 | 81,782 |
| 1/2 | | 1/2 | 201,808 | 1/2 | 186,809 | 1/2 | 171,790 | 1/2 | 156,738 | 1/2 | 141,687 | 1/2 | 126,635 | 1/2 | 111,583 | 1/2 | 96,527 | 1/2 | 81,469 |
| 3/4 | | 3/4 | 201,497 | 3/4 | 186,496 | 3/4 | 171,476 | 3/4 | 156,425 | 3/4 | 141,373 | 3/4 | 126,321 | 3/4 | 111,270 | 3/4 | 96,213 | 3/4 | 81,155 |
| 11 | | 11 | 201,187 | 11 | 186,183 | 11 | 171,163 | 11 | 156,111 | 11 | 141,060 | 11 | 126,008 | 11 | 110,956 | 11 | 95,899 | 11 | 80,841 |
| 1/4 | | 1/4 | 200,875 | 1/4 | 185,871 | 1/4 | 170,849 | 1/4 | 155,798 | 1/4 | 140,746 | 1/4 | 125,694 | 1/4 | 110,643 | 1/4 | 95,586 | 1/4 | 80,528 |
| 1/2 | | 1/2 | 200,564 | 1/2 | 185,558 | 1/2 | 170,536 | 1/2 | 155,484 | 1/2 | 140,432 | 1/2 | 125,381 | 1/2 | 110,329 | 1/2 | 95,272 | 1/2 | 80,214 |
| 3/4 | | 3/4 | 200,252 | 3/4 | 185,245 | 3/4 | 170,222 | 3/4 | 155,170 | 3/4 | 140,119 | 3/4 | 125,067 | 3/4 | 110,015 | 3/4 | 94,958 | 3/4 | 79,900 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

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 | 79,586 | 0 | 64,529 | 0 | 49,572 | 0 | 34,517 | 0 | 19,459 | 0 | 5,255 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 79,273 | 1/4 | 64,216 | 1/4 | 49,259 | 1/4 | 34,203 | 1/4 | 19,146 | 1/4 | 4,984 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 78,959 | 1/2 | 63,904 | 1/2 | 48,946 | 1/2 | 33,890 | 1/2 | 18,832 | 1/2 | 4,713 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,645 | 3/4 | 63,592 | 3/4 | 48,633 | 3/4 | 33,576 | 3/4 | 18,518 | 3/4 | 4,442 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 78,332 | 1 | 63,279 | 1 | 48,320 | 1 | 33,262 | 1 | 18,205 | 1 | 4,170 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 78,018 | 1/4 | 62,968 | 1/4 | 48,006 | 1/4 | 32,949 | 1/4 | 17,892 | 1/4 | 3,903 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,704 | 1/2 | 62,656 | 1/2 | 47,693 | 1/2 | 32,635 | 1/2 | 17,579 | 1/2 | 3,636 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,390 | 3/4 | 62,345 | 3/4 | 47,379 | 3/4 | 32,321 | 3/4 | 17,266 | 3/4 | 3,369 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 77,077 | 2 | 62,033 | 2 | 47,065 | 2 | 32,008 | 2 | 16,954 | 2 | 3,102 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 76,763 | 1/4 | 61,722 | 1/4 | 46,752 | 1/4 | 31,694 | 1/4 | 16,644 | 1/4 | 2,839 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,449 | 1/2 | 61,410 | 1/2 | 46,438 | 1/2 | 31,380 | 1/2 | 16,334 | 1/2 | 2,577 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,136 | 3/4 | 61,099 | 3/4 | 46,124 | 3/4 | 31,066 | 3/4 | 16,024 | 3/4 | 2,314 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 75,822 | 3 | 60,788 | 3 | 45,810 | 3 | 30,753 | 3 | 15,714 | 3 | 2,052 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 75,508 | 1/4 | 60,476 | 1/4 | 45,497 | 1/4 | 30,439 | 1/4 | 15,408 | 1/4 | 1,813 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,194 | 1/2 | 60,165 | 1/2 | 45,183 | 1/2 | 30,125 | 1/2 | 15,102 | 1/2 | 1,573 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,881 | 3/4 | 59,853 | 3/4 | 44,869 | 3/4 | 29,812 | 3/4 | 14,796 | 3/4 | 1,334 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 74,567 | 4 | 59,542 | 4 | 44,556 | 4 | 29,498 | 4 | 14,490 | 4 | 1,095 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 74,253 | 1/4 | 59,231 | 1/4 | 44,242 | 1/4 | 29,184 | 1/4 | 14,188 | 1/4 | 918 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,940 | 1/2 | 58,919 | 1/2 | 43,928 | 1/2 | 28,871 | 1/2 | 13,886 | 1/2 | 740 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,626 | 3/4 | 58,608 | 3/4 | 43,615 | 3/4 | 28,557 | 3/4 | 13,584 | 3/4 | 563 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 73,312 | 5 | 58,297 | 5 | 43,301 | 5 | 28,243 | 5 | 13,282 | 5 | 386 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 72,998 | 1/4 | 57,985 | 1/4 | 42,987 | 1/4 | 27,929 | 1/4 | 12,984 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,685 | 1/2 | 57,674 | 1/2 | 42,673 | 1/2 | 27,616 | 1/2 | 12,685 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,371 | 3/4 | 57,363 | 3/4 | 42,360 | 3/4 | 27,302 | 3/4 | 12,387 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 72,057 | 6 | 57,051 | 6 | 42,046 | 6 | 26,988 | 6 | 12,089 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 71,744 | 1/4 | 56,740 | 1/4 | 41,732 | 1/4 | 26,675 | 1/4 | 11,795 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,430 | 1/2 | 56,429 | 1/2 | 41,419 | 1/2 | 26,361 | 1/2 | 11,500 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,116 | 3/4 | 56,117 | 3/4 | 41,105 | 3/4 | 26,047 | 3/4 | 11,206 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 70,802 | 7 | 55,806 | 7 | 40,791 | 7 | 25,734 | 7 | 10,911 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 70,489 | 1/4 | 55,495 | 1/4 | 40,478 | 1/4 | 25,420 | 1/4 | 10,621 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,175 | 1/2 | 55,183 | 1/2 | 40,164 | 1/2 | 25,106 | 1/2 | 10,330 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 69,861 | 3/4 | 54,872 | 3/4 | 39,850 | 3/4 | 24,792 | 3/4 | 10,040 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 69,548 | 8 | 54,561 | 8 | 39,536 | 8 | 24,479 | 8 | 9,749 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 69,234 | 1/4 | 54,249 | 1/4 | 39,223 | 1/4 | 24,165 | 1/4 | 9,463 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 68,920 | 1/2 | 53,938 | 1/2 | 38,909 | 1/2 | 23,851 | 1/2 | 9,176 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 68,606 | 3/4 | 53,627 | 3/4 | 38,595 | 3/4 | 23,538 | 3/4 | 8,889 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 68,293 | 9 | 53,315 | 9 | 38,282 | 9 | 23,224 | 9 | 8,603 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 67,979 | 1/4 | 53,004 | 1/4 | 37,968 | 1/4 | 22,910 | 1/4 | 8,320 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 67,665 | 1/2 | 52,692 | 1/2 | 37,654 | 1/2 | 22,596 | 1/2 | 8,037 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 67,352 | 3/4 | 52,381 | 3/4 | 37,341 | 3/4 | 22,283 | 3/4 | 7,754 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 67,038 | 10 | 52,069 | 10 | 37,027 | 10 | 21,969 | 10 | 7,471 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 66,724 | 1/4 | 51,757 | 1/4 | 36,713 | 1/4 | 21,655 | 1/4 | 7,192 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 66,410 | 1/2 | 51,445 | 1/2 | 36,399 | 1/2 | 21,342 | 1/2 | 6,913 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 66,097 | 3/4 | 51,133 | 3/4 | 36,086 | 3/4 | 21,028 | 3/4 | 6,634 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 65,783 | 11 | 50,821 | 11 | 35,772 | 11 | 20,714 | 11 | 6,356 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 65,470 | 1/4 | 50,509 | 1/4 | 35,458 | 1/4 | 20,401 | 1/4 | 6,080 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 65,156 | 1/2 | 50,197 | 1/2 | 35,145 | 1/2 | 20,087 | 1/2 | 5,805 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 64,842 | 3/4 | 49,884 | 3/4 | 34,831 | 3/4 | 19,773 | 3/4 | 5,530 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 200,112 | 0 | 185,123 | 0 | 170,117 | 0 | 155,084 | 0 | 140,050 | 0 | 125,016 | 0 | 109,982 | 0 | 94,943 |
| 1/4 | | 1/4 | | 1/4 | 199,801 | 1/4 | 184,811 | 1/4 | 169,804 | 1/4 | 154,770 | 1/4 | 139,736 | 1/4 | 124,703 | 1/4 | 109,669 | 1/4 | 94,629 |
| 1/2 | | 1/2 | | 1/2 | 199,489 | 1/2 | 184,499 | 1/2 | 169,491 | 1/2 | 154,457 | 1/2 | 139,423 | 1/2 | 124,389 | 1/2 | 109,356 | 1/2 | 94,316 |
| 3/4 | | 3/4 | | 3/4 | 199,176 | 3/4 | 184,186 | 3/4 | 169,178 | 3/4 | 154,144 | 3/4 | 139,110 | 3/4 | 124,076 | 3/4 | 109,042 | 3/4 | 94,003 |
| 1 | | 1 | | 1 | 198,864 | 1 | 183,874 | 1 | 168,865 | 1 | 153,831 | 1 | 138,797 | 1 | 123,763 | 1 | 108,729 | 1 | 93,689 |
| 1/4 | | 1/4 | | 1/4 | 198,552 | 1/4 | 183,562 | 1/4 | 168,551 | 1/4 | 153,517 | 1/4 | 138,484 | 1/4 | 123,450 | 1/4 | 108,416 | 1/4 | 93,376 |
| 1/2 | | 1/2 | | 1/2 | 198,239 | 1/2 | 183,249 | 1/2 | 168,238 | 1/2 | 153,204 | 1/2 | 138,170 | 1/2 | 123,137 | 1/2 | 108,103 | 1/2 | 93,063 |
| 3/4 | | 3/4 | | 3/4 | 197,927 | 3/4 | 182,937 | 3/4 | 167,925 | 3/4 | 152,891 | 3/4 | 137,857 | 3/4 | 122,823 | 3/4 | 107,790 | 3/4 | 92,749 |
| 2 | | 2 | | 2 | 197,615 | 2 | 182,625 | 2 | 167,612 | 2 | 152,578 | 2 | 137,544 | 2 | 122,510 | 2 | 107,476 | 2 | 92,436 |
| 1/4 | | 1/4 | | 1/4 | 211,241 | 1/4 | 197,303 | 1/4 | 182,312 | 1/4 | 167,299 | 1/4 | 152,265 | 1/4 | 137,231 | 1/4 | 122,197 | 1/4 | 107,163 |
| 1/2 | | 1/2 | | 1/2 | 211,061 | 1/2 | 196,990 | 1/2 | 182,000 | 1/2 | 166,985 | 1/2 | 151,951 | 1/2 | 136,917 | 1/2 | 121,884 | 1/2 | 106,809 |
| 3/4 | | 3/4 | | 3/4 | 210,882 | 3/4 | 196,678 | 3/4 | 181,688 | 3/4 | 166,672 | 3/4 | 151,638 | 3/4 | 136,604 | 3/4 | 121,571 | 3/4 | 106,536 |
| 3 | | 3 | | 3 | 210,702 | 3 | 196,366 | 3 | 181,376 | 3 | 166,359 | 3 | 151,325 | 3 | 136,291 | 3 | 121,257 | 3 | 106,223 |
| 1/4 | | 1/4 | | 1/4 | 210,522 | 1/4 | 196,053 | 1/4 | 181,063 | 1/4 | 166,046 | 1/4 | 151,012 | 1/4 | 135,978 | 1/4 | 120,944 | 1/4 | 105,910 |
| 1/2 | | 1/2 | | 1/2 | 210,290 | 1/2 | 195,741 | 1/2 | 180,751 | 1/2 | 165,733 | 1/2 | 150,699 | 1/2 | 135,665 | 1/2 | 120,631 | 1/2 | 105,596 |
| 3/4 | | 3/4 | | 3/4 | 210,058 | 3/4 | 195,429 | 3/4 | 180,439 | 3/4 | 165,419 | 3/4 | 150,385 | 3/4 | 135,351 | 3/4 | 120,318 | 3/4 | 105,283 |
| 4 | | 4 | | 4 | 209,826 | 4 | 195,117 | 4 | 180,126 | 4 | 165,106 | 4 | 150,072 | 4 | 135,038 | 4 | 120,005 | 4 | 104,970 |
| 1/4 | | 1/4 | | 1/4 | 209,594 | 1/4 | 194,804 | 1/4 | 179,814 | 1/4 | 164,793 | 1/4 | 149,759 | 1/4 | 134,725 | 1/4 | 119,691 | 1/4 | 104,656 |
| 1/2 | | 1/2 | | 1/2 | 209,314 | 1/2 | 194,492 | 1/2 | 179,502 | 1/2 | 164,480 | 1/2 | 149,446 | 1/2 | 134,412 | 1/2 | 119,378 | 1/2 | 104,343 |
| 3/4 | | 3/4 | | 3/4 | 209,034 | 3/4 | 194,180 | 3/4 | 179,190 | 3/4 | 164,167 | 3/4 | 149,133 | 3/4 | 134,099 | 3/4 | 119,065 | 3/4 | 104,030 |
| 5 | | 5 | | 5 | 208,753 | 5 | 193,867 | 5 | 178,877 | 5 | 163,853 | 5 | 148,819 | 5 | 133,785 | 5 | 118,752 | 5 | 103,716 |
| 1/4 | | 1/4 | | 1/4 | 208,473 | 1/4 | 193,555 | 1/4 | 178,565 | 1/4 | 163,540 | 1/4 | 148,506 | 1/4 | 133,472 | 1/4 | 118,439 | 1/4 | 103,403 |
| 1/2 | | 1/2 | | 1/2 | 208,167 | 1/2 | 193,243 | 1/2 | 178,253 | 1/2 | 163,227 | 1/2 | 148,193 | 1/2 | 133,159 | 1/2 | 118,125 | 1/2 | 103,090 |
| 3/4 | | 3/4 | | 3/4 | 207,861 | 3/4 | 192,930 | 3/4 | 177,940 | 3/4 | 162,914 | 3/4 | 147,880 | 3/4 | 132,846 | 3/4 | 117,812 | 3/4 | 102,776 |
| 6 | | 6 | | 6 | 207,554 | 6 | 192,618 | 6 | 177,628 | 6 | 162,600 | 6 | 147,567 | 6 | 132,533 | 6 | 117,499 | 6 | 102,463 |
| 1/4 | | 1/4 | | 1/4 | 207,248 | 1/4 | 192,306 | 1/4 | 177,316 | 1/4 | 162,287 | 1/4 | 147,253 | 1/4 | 132,219 | 1/4 | 117,186 | 1/4 | 102,150 |
| 1/2 | | 1/2 | | 1/2 | 206,939 | 1/2 | 191,994 | 1/2 | 177,003 | 1/2 | 161,974 | 1/2 | 146,940 | 1/2 | 131,906 | 1/2 | 116,873 | 1/2 | 101,836 |
| 3/4 | | 3/4 | | 3/4 | 206,629 | 3/4 | 191,681 | 3/4 | 176,691 | 3/4 | 161,661 | 3/4 | 146,627 | 3/4 | 131,593 | 3/4 | 116,559 | 3/4 | 101,523 |
| 7 | | 7 | | 7 | 206,319 | 7 | 191,369 | 7 | 176,379 | 7 | 161,348 | 7 | 146,314 | 7 | 131,280 | 7 | 116,246 | 7 | 101,210 |
| 1/4 | | 1/4 | | 1/4 | 206,009 | 1/4 | 191,057 | 1/4 | 176,067 | 1/4 | 161,034 | 1/4 | 146,000 | 1/4 | 130,967 | 1/4 | 115,933 | 1/4 | 100,896 |
| 1/2 | | 1/2 | | 1/2 | 205,699 | 1/2 | 190,744 | 1/2 | 175,754 | 1/2 | 160,721 | 1/2 | 145,687 | 1/2 | 130,653 | 1/2 | 115,620 | 1/2 | 100,583 |
| 3/4 | | 3/4 | | 3/4 | 205,389 | 3/4 | 190,432 | 3/4 | 175,441 | 3/4 | 160,408 | 3/4 | 145,374 | 3/4 | 130,340 | 3/4 | 115,307 | 3/4 | 100,270 |
| 8 | | 8 | | 8 | 205,079 | 8 | 190,120 | 8 | 175,128 | 8 | 160,095 | 8 | 145,061 | 8 | 130,027 | 8 | 114,993 | 8 | 99,956 |
| 1/4 | | 1/4 | | 1/4 | 204,768 | 1/4 | 189,808 | 1/4 | 174,816 | 1/4 | 159,782 | 1/4 | 144,748 | 1/4 | 129,714 | 1/4 | 114,680 | 1/4 | 99,643 |
| 1/2 | | 1/2 | | 1/2 | 204,458 | 1/2 | 189,495 | 1/2 | 174,502 | 1/2 | 159,468 | 1/2 | 144,434 | 1/2 | 129,401 | 1/2 | 114,367 | 1/2 | 99,330 |
| 3/4 | | 3/4 | | 3/4 | 204,148 | 3/4 | 189,183 | 3/4 | 174,189 | 3/4 | 159,155 | 3/4 | 144,121 | 3/4 | 129,087 | 3/4 | 114,054 | 3/4 | 99,016 |
| 9 | | 9 | | 9 | 203,838 | 9 | 188,871 | 9 | 173,876 | 9 | 158,842 | 9 | 143,808 | 9 | 128,774 | 9 | 113,741 | 9 | 98,703 |
| 1/4 | | 1/4 | | 1/4 | 203,527 | 1/4 | 188,558 | 1/4 | 173,563 | 1/4 | 158,529 | 1/4 | 143,495 | 1/4 | 128,461 | 1/4 | 113,427 | 1/4 | 98,390 |
| 1/2 | | 1/2 | | 1/2 | 203,217 | 1/2 | 188,246 | 1/2 | 173,250 | 1/2 | 158,216 | 1/2 | 143,182 | 1/2 | 128,148 | 1/2 | 113,114 | 1/2 | 98,076 |
| 3/4 | | 3/4 | | 3/4 | 202,907 | 3/4 | 187,934 | 3/4 | 172,936 | 3/4 | 157,902 | 3/4 | 142,868 | 3/4 | 127,835 | 3/4 | 112,801 | 3/4 | 97,763 |
| 10 | | 10 | | 10 | 202,597 | 10 | 187,621 | 10 | 172,623 | 10 | 157,589 | 10 | 142,555 | 10 | 127,521 | 10 | 112,488 | 10 | 97,450 |
| 1/4 | | 1/4 | | 1/4 | 202,286 | 1/4 | 187,309 | 1/4 | 172,310 | 1/4 | 157,276 | 1/4 | 142,242 | 1/4 | 127,208 | 1/4 | 112,174 | 1/4 | 97,136 |
| 1/2 | | 1/2 | | 1/2 | 201,976 | 1/2 | 186,997 | 1/2 | 171,997 | 1/2 | 156,963 | 1/2 | 141,929 | 1/2 | 126,895 | 1/2 | 111,861 | 1/2 | 96,823 |
| 3/4 | | 3/4 | | 3/4 | 201,666 | 3/4 | 186,685 | 3/4 | 171,684 | 3/4 | 156,650 | 3/4 | 141,616 | 3/4 | 126,582 | 3/4 | 111,548 | 3/4 | 96,510 |
| 11 | | 11 | | 11 | 201,356 | 11 | 186,372 | 11 | 171,370 | 11 | 156,336 | 11 | 141,302 | 11 | 126,269 | 11 | 111,235 | 11 | 96,196 |
| 1/4 | | 1/4 | | 1/4 | 201,046 | 1/4 | 186,060 | 1/4 | 171,057 | 1/4 | 156,023 | 1/4 | 140,989 | 1/4 | 125,955 | 1/4 | 110,922 | 1/4 | 95,883 |
| 1/2 | | 1/2 | | 1/2 | 200,735 | 1/2 | 185,748 | 1/2 | 170,744 | 1/2 | 155,710 | 1/2 | 140,676 | 1/2 | 125,642 | 1/2 | 110,608 | 1/2 | 95,569 |
| 3/4 | | 3/4 | | 3/4 | 200,423 | 3/4 | 185,435 | 3/4 | 170,431 | 3/4 | 155,397 | 3/4 | 140,363 | 3/4 | 125,329 | 3/4 | 110,295 | 3/4 | 95,256 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 79,903 | 0 | 64,862 | 0 | 49,830 | 0 | 34,790 | 0 | 19,750 | 0 | 5,524 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 79,589 | 1/4 | 64,549 | 1/4 | 49,516 | 1/4 | 34,477 | 1/4 | 19,437 | 1/4 | 5,249 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,276 | 1/2 | 64,236 | 1/2 | 49,203 | 1/2 | 34,163 | 1/2 | 19,123 | 1/2 | 4,979 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,963 | 3/4 | 63,922 | 3/4 | 48,890 | 3/4 | 33,850 | 3/4 | 18,810 | 3/4 | 4,708 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 78,649 | 1 | 63,609 | 1 | 48,576 | 1 | 33,537 | 1 | 18,497 | 1 | 4,437 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 78,336 | 1/4 | 63,296 | 1/4 | 48,263 | 1/4 | 33,223 | 1/4 | 18,183 | 1/4 | 4,166 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 78,023 | 1/2 | 62,982 | 1/2 | 47,950 | 1/2 | 32,910 | 1/2 | 17,871 | 1/2 | 3,899 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,709 | 3/4 | 62,669 | 3/4 | 47,636 | 3/4 | 32,597 | 3/4 | 17,559 | 3/4 | 3,632 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 77,396 | 2 | 62,356 | 2 | 47,323 | 2 | 32,283 | 2 | 17,246 | 2 | 3,366 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 77,083 | 1/4 | 62,043 | 1/4 | 47,010 | 1/4 | 31,970 | 1/4 | 16,934 | 1/4 | 3,099 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,769 | 1/2 | 61,729 | 1/2 | 46,696 | 1/2 | 31,657 | 1/2 | 16,624 | 1/2 | 2,837 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,456 | 3/4 | 61,416 | 3/4 | 46,383 | 3/4 | 31,343 | 3/4 | 16,315 | 3/4 | 2,574 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 76,143 | 3 | 61,103 | 3 | 46,070 | 3 | 31,030 | 3 | 16,006 | 3 | 2,312 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 75,829 | 1/4 | 60,790 | 1/4 | 45,756 | 1/4 | 30,717 | 1/4 | 15,696 | 1/4 | 2,050 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,516 | 1/2 | 60,477 | 1/2 | 45,443 | 1/2 | 30,403 | 1/2 | 15,390 | 1/2 | 1,811 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,203 | 3/4 | 60,164 | 3/4 | 45,130 | 3/4 | 30,090 | 3/4 | 15,085 | 3/4 | 1,572 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 74,889 | 4 | 59,851 | 4 | 44,816 | 4 | 29,777 | 4 | 14,779 | 4 | 1,333 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 74,576 | 1/4 | 59,537 | 1/4 | 44,503 | 1/4 | 29,463 | 1/4 | 14,474 | 1/4 | 1,094 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,263 | 1/2 | 59,224 | 1/2 | 44,190 | 1/2 | 29,150 | 1/2 | 14,172 | 1/2 | 917 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,949 | 3/4 | 58,911 | 3/4 | 43,876 | 3/4 | 28,837 | 3/4 | 13,870 | 3/4 | 740 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 73,636 | 5 | 58,598 | 5 | 43,563 | 5 | 28,523 | 5 | 13,568 | 5 | 563 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 73,323 | 1/4 | 58,285 | 1/4 | 43,250 | 1/4 | 28,210 | 1/4 | 13,267 | 1/4 | 386 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,009 | 1/2 | 57,972 | 1/2 | 42,936 | 1/2 | 27,897 | 1/2 | 12,969 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,696 | 3/4 | 57,659 | 3/4 | 42,623 | 3/4 | 27,583 | 3/4 | 12,671 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 72,382 | 6 | 57,346 | 6 | 42,310 | 6 | 27,270 | 6 | 12,373 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 72,069 | 1/4 | 57,033 | 1/4 | 41,996 | 1/4 | 26,957 | 1/4 | 12,075 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,756 | 1/2 | 56,720 | 1/2 | 41,683 | 1/2 | 26,643 | 1/2 | 11,781 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,442 | 3/4 | 56,406 | 3/4 | 41,370 | 3/4 | 26,330 | 3/4 | 11,487 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 71,129 | 7 | 56,093 | 7 | 41,056 | 7 | 26,017 | 7 | 11,193 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 70,816 | 1/4 | 55,780 | 1/4 | 40,743 | 1/4 | 25,703 | 1/4 | 10,899 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,502 | 1/2 | 55,467 | 1/2 | 40,430 | 1/2 | 25,390 | 1/2 | 10,609 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,189 | 3/4 | 55,154 | 3/4 | 40,116 | 3/4 | 25,077 | 3/4 | 10,318 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 69,876 | 8 | 54,841 | 8 | 39,803 | 8 | 24,763 | 8 | 10,028 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 69,562 | 1/4 | 54,528 | 1/4 | 39,490 | 1/4 | 24,450 | 1/4 | 9,738 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 69,249 | 1/2 | 54,215 | 1/2 | 39,176 | 1/2 | 24,137 | 1/2 | 9,452 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 68,936 | 3/4 | 53,902 | 3/4 | 38,863 | 3/4 | 23,823 | 3/4 | 9,165 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 68,622 | 9 | 53,588 | 9 | 38,550 | 9 | 23,510 | 9 | 8,879 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 68,309 | 1/4 | 53,275 | 1/4 | 38,236 | 1/4 | 23,197 | 1/4 | 8,593 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 67,996 | 1/2 | 52,962 | 1/2 | 37,923 | 1/2 | 22,883 | 1/2 | 8,310 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 67,682 | 3/4 | 52,649 | 3/4 | 37,610 | 3/4 | 22,570 | 3/4 | 8,028 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 67,369 | 10 | 52,336 | 10 | 37,296 | 10 | 22,257 | 10 | 7,745 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 67,056 | 1/4 | 52,023 | 1/4 | 36,983 | 1/4 | 21,943 | 1/4 | 7,463 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 66,742 | 1/2 | 51,709 | 1/2 | 36,670 | 1/2 | 21,630 | 1/2 | 7,184 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 66,429 | 3/4 | 51,396 | 3/4 | 36,356 | 3/4 | 21,317 | 3/4 | 6,906 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 66,116 | 11 | 51,083 | 11 | 36,043 | 11 | 21,003 | 11 | 6,627 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 65,802 | 1/4 | 50,770 | 1/4 | 35,730 | 1/4 | 20,690 | 1/4 | 6,348 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 65,489 | 1/2 | 50,456 | 1/2 | 35,416 | 1/2 | 20,377 | 1/2 | 6,074 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 65,176 | 3/4 | 50,143 | 3/4 | 35,103 | 3/4 | 20,063 | 3/4 | 5,799 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 201,492 | 0 | 186,507 | 0 | 171,503 | 0 | 156,466 | 0 | 141,429 | 0 | 126,392 | 0 | 111,355 | 0 | 96,312 |
| 1/4 | | 1/4 | | 1/4 | 201,181 | 1/4 | 186,195 | 1/4 | 171,190 | 1/4 | 156,153 | 1/4 | 141,116 | 1/4 | 126,079 | 1/4 | 111,042 | 1/4 | 95,999 |
| 1/2 | | 1/2 | | 1/2 | 200,869 | 1/2 | 185,883 | 1/2 | 170,877 | 1/2 | 155,840 | 1/2 | 140,803 | 1/2 | 125,766 | 1/2 | 110,729 | 1/2 | 95,685 |
| 3/4 | | 3/4 | | 3/4 | 200,557 | 3/4 | 185,571 | 3/4 | 170,564 | 3/4 | 155,527 | 3/4 | 140,490 | 3/4 | 125,453 | 3/4 | 110,416 | 3/4 | 95,372 |
| 1 | | 1 | | 1 | 200,244 | 1 | 185,259 | 1 | 170,250 | 1 | 155,213 | 1 | 140,176 | 1 | 125,139 | 1 | 110,102 | 1 | 95,058 |
| 1/4 | | 1/4 | | 1/4 | 199,932 | 1/4 | 184,946 | 1/4 | 169,937 | 1/4 | 154,900 | 1/4 | 139,863 | 1/4 | 124,826 | 1/4 | 109,789 | 1/4 | 94,745 |
| 1/2 | | 1/2 | | 1/2 | 199,620 | 1/2 | 184,634 | 1/2 | 169,624 | 1/2 | 154,587 | 1/2 | 139,550 | 1/2 | 124,513 | 1/2 | 109,476 | 1/2 | 94,431 |
| 3/4 | | 3/4 | | 3/4 | 199,308 | 3/4 | 184,322 | 3/4 | 169,310 | 3/4 | 154,274 | 3/4 | 139,237 | 3/4 | 124,200 | 3/4 | 109,162 | 3/4 | 94,118 |
| 2 | | 2 | | 2 | 198,996 | 2 | 184,010 | 2 | 168,997 | 2 | 153,960 | 2 | 138,923 | 2 | 123,886 | 2 | 108,849 | 2 | 93,805 |
| 1/4 | | 1/4 | | 1/4 | 212,582 | 1/4 | 198,683 | 1/4 | 183,698 | 1/4 | 168,684 | 1/4 | 153,647 | 1/4 | 138,610 | 1/4 | 123,573 | 1/4 | 108,536 |
| 1/2 | | 1/2 | | 1/2 | 212,403 | 1/2 | 198,371 | 1/2 | 183,385 | 1/2 | 168,371 | 1/2 | 153,334 | 1/2 | 138,297 | 1/2 | 123,260 | 1/2 | 108,222 |
| 3/4 | | 3/4 | | 3/4 | 212,225 | 3/4 | 198,059 | 3/4 | 183,073 | 3/4 | 168,057 | 3/4 | 153,020 | 3/4 | 137,983 | 3/4 | 122,946 | 3/4 | 107,909 |
| 3 | | 3 | | 3 | 212,046 | 3 | 197,747 | 3 | 182,761 | 3 | 167,744 | 3 | 152,707 | 3 | 137,670 | 3 | 122,633 | 3 | 107,595 |
| 1/4 | | 1/4 | | 1/4 | 211,867 | 1/4 | 197,435 | 1/4 | 182,449 | 1/4 | 167,431 | 1/4 | 152,394 | 1/4 | 137,357 | 1/4 | 122,320 | 1/4 | 107,282 |
| 1/2 | | 1/2 | | 1/2 | 211,636 | 1/2 | 197,122 | 1/2 | 182,136 | 1/2 | 167,118 | 1/2 | 152,081 | 1/2 | 137,044 | 1/2 | 122,007 | 1/2 | 106,969 |
| 3/4 | | 3/4 | | 3/4 | 211,405 | 3/4 | 196,810 | 3/4 | 181,824 | 3/4 | 166,804 | 3/4 | 151,767 | 3/4 | 136,730 | 3/4 | 121,693 | 3/4 | 106,655 |
| 4 | | 4 | | 4 | 211,175 | 4 | 196,498 | 4 | 181,512 | 4 | 166,491 | 4 | 151,454 | 4 | 136,417 | 4 | 121,380 | 4 | 106,342 |
| 1/4 | | 1/4 | | 1/4 | 210,944 | 1/4 | 196,186 | 1/4 | 181,200 | 1/4 | 166,178 | 1/4 | 151,141 | 1/4 | 136,104 | 1/4 | 121,067 | 1/4 | 106,028 |
| 1/2 | | 1/2 | | 1/2 | 210,664 | 1/2 | 195,874 | 1/2 | 180,888 | 1/2 | 165,865 | 1/2 | 150,828 | 1/2 | 135,791 | 1/2 | 120,754 | 1/2 | 105,715 |
| 3/4 | | 3/4 | | 3/4 | 210,385 | 3/4 | 195,561 | 3/4 | 180,575 | 3/4 | 165,551 | 3/4 | 150,514 | 3/4 | 135,477 | 3/4 | 120,440 | 3/4 | 105,401 |
| 5 | | 5 | | 5 | 210,106 | 5 | 195,249 | 5 | 180,263 | 5 | 165,238 | 5 | 150,201 | 5 | 135,164 | 5 | 120,127 | 5 | 105,088 |
| 1/4 | | 1/4 | | 1/4 | 209,826 | 1/4 | 194,937 | 1/4 | 179,951 | 1/4 | 164,925 | 1/4 | 149,888 | 1/4 | 134,851 | 1/4 | 119,814 | 1/4 | 104,775 |
| 1/2 | | 1/2 | | 1/2 | 209,521 | 1/2 | 194,625 | 1/2 | 179,639 | 1/2 | 164,611 | 1/2 | 149,574 | 1/2 | 134,537 | 1/2 | 119,500 | 1/2 | 104,461 |
| 3/4 | | 3/4 | | 3/4 | 209,216 | 3/4 | 194,313 | 3/4 | 179,327 | 3/4 | 164,298 | 3/4 | 149,261 | 3/4 | 134,224 | 3/4 | 119,187 | 3/4 | 104,148 |
| 6 | | 6 | | 6 | 208,911 | 6 | 194,000 | 6 | 179,014 | 6 | 163,985 | 6 | 148,948 | 6 | 133,911 | 6 | 118,874 | 6 | 103,834 |
| 1/4 | | 1/4 | | 1/4 | 208,606 | 1/4 | 193,688 | 1/4 | 178,702 | 1/4 | 163,672 | 1/4 | 148,635 | 1/4 | 133,598 | 1/4 | 118,561 | 1/4 | 103,521 |
| 1/2 | | 1/2 | | 1/2 | 208,297 | 1/2 | 193,376 | 1/2 | 178,390 | 1/2 | 163,358 | 1/2 | 148,321 | 1/2 | 133,284 | 1/2 | 118,247 | 1/2 | 103,207 |
| 3/4 | | 3/4 | | 3/4 | 207,988 | 3/4 | 193,064 | 3/4 | 178,078 | 3/4 | 163,045 | 3/4 | 148,008 | 3/4 | 132,971 | 3/4 | 117,934 | 3/4 | 102,894 |
| 7 | | 7 | | 7 | 207,680 | 7 | 192,752 | 7 | 177,766 | 7 | 162,732 | 7 | 147,695 | 7 | 132,658 | 7 | 117,621 | 7 | 102,581 |
| 1/4 | | 1/4 | | 1/4 | 207,371 | 1/4 | 192,439 | 1/4 | 177,453 | 1/4 | 162,419 | 1/4 | 147,382 | 1/4 | 132,345 | 1/4 | 117,308 | 1/4 | 102,267 |
| 1/2 | | 1/2 | | 1/2 | 207,062 | 1/2 | 192,127 | 1/2 | 177,141 | 1/2 | 162,105 | 1/2 | 147,068 | 1/2 | 132,031 | 1/2 | 116,994 | 1/2 | 101,954 |
| 3/4 | | 3/4 | | 3/4 | 206,752 | 3/4 | 191,815 | 3/4 | 176,828 | 3/4 | 161,792 | 3/4 | 146,755 | 3/4 | 131,718 | 3/4 | 116,681 | 3/4 | 101,640 |
| 8 | | 8 | | 8 | 206,443 | 8 | 191,503 | 8 | 176,515 | 8 | 161,479 | 8 | 146,442 | 8 | 131,405 | 8 | 116,368 | 8 | 101,327 |
| 1/4 | | 1/4 | | 1/4 | 206,134 | 1/4 | 191,190 | 1/4 | 176,202 | 1/4 | 161,165 | 1/4 | 146,128 | 1/4 | 131,091 | 1/4 | 116,055 | 1/4 | 101,013 |
| 1/2 | | 1/2 | | 1/2 | 205,825 | 1/2 | 190,878 | 1/2 | 175,889 | 1/2 | 160,852 | 1/2 | 145,815 | 1/2 | 130,778 | 1/2 | 115,741 | 1/2 | 100,700 |
| 3/4 | | 3/4 | | 3/4 | 205,516 | 3/4 | 190,566 | 3/4 | 175,576 | 3/4 | 160,539 | 3/4 | 145,502 | 3/4 | 130,465 | 3/4 | 115,428 | 3/4 | 100,387 |
| 9 | | 9 | | 9 | 205,206 | 9 | 190,254 | 9 | 175,263 | 9 | 160,226 | 9 | 145,189 | 9 | 130,152 | 9 | 115,115 | 9 | 100,073 |
| 1/4 | | 1/4 | | 1/4 | 204,897 | 1/4 | 189,942 | 1/4 | 174,949 | 1/4 | 159,912 | 1/4 | 144,875 | 1/4 | 129,838 | 1/4 | 114,801 | 1/4 | 99,760 |
| 1/2 | | 1/2 | | 1/2 | 204,588 | 1/2 | 189,629 | 1/2 | 174,636 | 1/2 | 159,599 | 1/2 | 144,562 | 1/2 | 129,525 | 1/2 | 114,488 | 1/2 | 99,446 |
| 3/4 | | 3/4 | | 3/4 | 204,279 | 3/4 | 189,317 | 3/4 | 174,323 | 3/4 | 159,286 | 3/4 | 144,249 | 3/4 | 129,212 | 3/4 | 114,175 | 3/4 | 99,133 |
| 10 | | 10 | | 10 | 203,969 | 10 | 189,005 | 10 | 174,010 | 10 | 158,973 | 10 | 143,936 | 10 | 128,899 | 10 | 113,862 | 10 | 98,819 |
| 1/4 | | 1/4 | | 1/4 | 203,660 | 1/4 | 188,693 | 1/4 | 173,696 | 1/4 | 158,659 | 1/4 | 143,622 | 1/4 | 128,585 | 1/4 | 113,548 | 1/4 | 98,506 |
| 1/2 | | 1/2 | | 1/2 | 203,351 | 1/2 | 188,381 | 1/2 | 173,383 | 1/2 | 158,346 | 1/2 | 143,309 | 1/2 | 128,272 | 1/2 | 113,235 | 1/2 | 98,193 |
| 3/4 | | 3/4 | | 3/4 | 203,042 | 3/4 | 188,068 | 3/4 | 173,070 | 3/4 | 158,033 | 3/4 | 142,996 | 3/4 | 127,959 | 3/4 | 112,922 | 3/4 | 97,879 |
| 11 | | 11 | | 11 | 202,733 | 11 | 187,756 | 11 | 172,756 | 11 | 157,719 | 11 | 142,682 | 11 | 127,646 | 11 | 112,609 | 11 | 97,566 |
| 1/4 | | 1/4 | | 1/4 | 202,424 | 1/4 | 187,444 | 1/4 | 172,443 | 1/4 | 157,406 | 1/4 | 142,369 | 1/4 | 127,332 | 1/4 | 112,295 | 1/4 | 97,252 |
| 1/2 | | 1/2 | | 1/2 | 202,113 | 1/2 | 187,132 | 1/2 | 172,130 | 1/2 | 157,093 | 1/2 | 142,056 | 1/2 | 127,019 | 1/2 | 111,982 | 1/2 | 96,939 |
| 3/4 | | 3/4 | | 3/4 | 201,802 | 3/4 | 186,820 | 3/4 | 171,817 | 3/4 | 156,780 | 3/4 | 141,743 | 3/4 | 126,706 | 3/4 | 111,669 | 3/4 | 96,625 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 81,268 | 0 | 66,223 | 0 | 51,707 | 0 | 37,262 | 0 | 22,256 | 0 | 7,212 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 80,954 | 1/4 | 65,910 | 1/4 | 51,406 | 1/4 | 36,961 | 1/4 | 21,942 | 1/4 | 6,898 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,641 | 1/2 | 65,602 | 1/2 | 51,104 | 1/2 | 36,653 | 1/2 | 21,629 | 1/2 | 6,585 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,327 | 3/4 | 65,294 | 3/4 | 50,803 | 3/4 | 36,346 | 3/4 | 21,316 | 3/4 | 6,272 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 80,014 | 1 | 64,987 | 1 | 50,502 | 1 | 36,038 | 1 | 21,002 | 1 | 5,958 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 79,700 | 1/4 | 64,679 | 1/4 | 50,200 | 1/4 | 35,731 | 1/4 | 20,689 | 1/4 | 5,645 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,387 | 1/2 | 64,378 | 1/2 | 49,899 | 1/2 | 35,417 | 1/2 | 20,375 | 1/2 | 5,332 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 79,074 | 3/4 | 64,076 | 3/4 | 49,598 | 3/4 | 35,104 | 3/4 | 20,062 | 3/4 | 5,018 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 78,760 | 2 | 63,774 | 2 | 49,297 | 2 | 34,790 | 2 | 19,748 | 2 | 4,705 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 78,447 | 1/4 | 63,473 | 1/4 | 48,996 | 1/4 | 34,477 | 1/4 | 19,435 | 1/4 | 4,392 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 78,133 | 1/2 | 63,171 | 1/2 | 48,696 | 1/2 | 34,163 | 1/2 | 19,122 | 1/2 | 4,080 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,820 | 3/4 | 62,869 | 3/4 | 48,395 | 3/4 | 33,850 | 3/4 | 18,808 | 3/4 | 3,767 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 77,506 | 3 | 62,568 | 3 | 48,094 | 3 | 33,537 | 3 | 18,495 | 3 | 3,455 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 77,193 | 1/4 | 62,266 | 1/4 | 47,793 | 1/4 | 33,223 | 1/4 | 18,181 | 1/4 | 3,142 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,880 | 1/2 | 61,964 | 1/2 | 47,492 | 1/2 | 32,910 | 1/2 | 17,868 | 1/2 | 2,849 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,566 | 3/4 | 61,663 | 3/4 | 47,191 | 3/4 | 32,596 | 3/4 | 17,555 | 3/4 | 2,556 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 76,253 | 4 | 61,361 | 4 | 46,891 | 4 | 32,283 | 4 | 17,241 | 4 | 2,263 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 75,939 | 1/4 | 61,059 | 1/4 | 46,590 | 1/4 | 31,969 | 1/4 | 16,928 | 1/4 | 1,970 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,626 | 1/2 | 60,758 | 1/2 | 46,289 | 1/2 | 31,656 | 1/2 | 16,614 | 1/2 | 1,735 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,312 | 3/4 | 60,456 | 3/4 | 45,988 | 3/4 | 31,343 | 3/4 | 16,301 | 3/4 | 1,500 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 74,999 | 5 | 60,154 | 5 | 45,688 | 5 | 31,029 | 5 | 15,987 | 5 | 1,265 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 74,686 | 1/4 | 59,853 | 1/4 | 45,387 | 1/4 | 30,716 | 1/4 | 15,674 | 1/4 | 1,030 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,372 | 1/2 | 59,551 | 1/2 | 45,086 | 1/2 | 30,402 | 1/2 | 15,361 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,059 | 3/4 | 59,249 | 3/4 | 44,786 | 3/4 | 30,089 | 3/4 | 15,047 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 73,745 | 6 | 58,947 | 6 | 44,485 | 6 | 29,776 | 6 | 14,734 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 73,432 | 1/4 | 58,646 | 1/4 | 44,184 | 1/4 | 29,462 | 1/4 | 14,420 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,118 | 1/2 | 58,344 | 1/2 | 43,883 | 1/2 | 29,149 | 1/2 | 14,107 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,805 | 3/4 | 58,042 | 3/4 | 43,583 | 3/4 | 28,836 | 3/4 | 13,794 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 72,492 | 7 | 57,741 | 7 | 43,282 | 7 | 28,523 | 7 | 13,480 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 72,178 | 1/4 | 57,439 | 1/4 | 42,981 | 1/4 | 28,210 | 1/4 | 13,167 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,865 | 1/2 | 57,137 | 1/2 | 42,680 | 1/2 | 27,896 | 1/2 | 12,853 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,551 | 3/4 | 56,836 | 3/4 | 42,380 | 3/4 | 27,583 | 3/4 | 12,540 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 71,238 | 8 | 56,534 | 8 | 42,079 | 8 | 27,270 | 8 | 12,226 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 70,924 | 1/4 | 56,232 | 1/4 | 41,778 | 1/4 | 26,957 | 1/4 | 11,913 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,611 | 1/2 | 55,931 | 1/2 | 41,477 | 1/2 | 26,643 | 1/2 | 11,600 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,298 | 3/4 | 55,629 | 3/4 | 41,177 | 3/4 | 26,330 | 3/4 | 11,286 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 69,984 | 9 | 55,327 | 9 | 40,876 | 9 | 26,017 | 9 | 10,973 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 69,671 | 1/4 | 55,026 | 1/4 | 40,575 | 1/4 | 25,703 | 1/4 | 10,659 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 69,357 | 1/2 | 54,724 | 1/2 | 40,274 | 1/2 | 25,390 | 1/2 | 10,346 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 69,044 | 3/4 | 54,422 | 3/4 | 39,974 | 3/4 | 25,077 | 3/4 | 10,033 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 68,730 | 10 | 54,121 | 10 | 39,673 | 10 | 24,763 | 10 | 9,719 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 68,417 | 1/4 | 53,819 | 1/4 | 39,372 | 1/4 | 24,450 | 1/4 | 9,406 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 68,104 | 1/2 | 53,517 | 1/2 | 39,071 | 1/2 | 24,136 | 1/2 | 9,092 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 67,790 | 3/4 | 53,216 | 3/4 | 38,770 | 3/4 | 23,823 | 3/4 | 8,779 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 67,477 | 11 | 52,914 | 11 | 38,469 | 11 | 23,510 | 11 | 8,465 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 67,163 | 1/4 | 52,612 | 1/4 | 38,167 | 1/4 | 23,196 | 1/4 | 8,152 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 66,850 | 1/2 | 52,311 | 1/2 | 37,866 | 1/2 | 22,883 | 1/2 | 7,839 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 66,536 | 3/4 | 52,009 | 3/4 | 37,564 | 3/4 | 22,569 | 3/4 | 7,525 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

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 | 202,920 | 0 | 187,889 | 0 | 172,838 | 0 | 157,756 | 0 | 142,674 | 0 | 127,592 | 0 | 112,509 | 0 | 97,421 |
| 1/4 | | 1/4 | | 1/4 | 202,607 | 1/4 | 187,575 | 1/4 | 172,524 | 1/4 | 157,442 | 1/4 | 142,360 | 1/4 | 127,277 | 1/4 | 112,195 | 1/4 | 97,106 |
| 1/2 | | 1/2 | | 1/2 | 202,293 | 1/2 | 187,262 | 1/2 | 172,210 | 1/2 | 157,128 | 1/2 | 142,045 | 1/2 | 126,963 | 1/2 | 111,881 | 1/2 | 96,792 |
| 3/4 | | 3/4 | | 3/4 | 201,980 | 3/4 | 186,949 | 3/4 | 171,896 | 3/4 | 156,813 | 3/4 | 141,731 | 3/4 | 126,649 | 3/4 | 111,567 | 3/4 | 96,477 |
| 1 | | 1 | | 1 | 201,667 | 1 | 186,636 | 1 | 171,582 | 1 | 156,499 | 1 | 141,417 | 1 | 126,335 | 1 | 111,253 | 1 | 96,163 |
| 1/4 | | 1/4 | | 1/4 | 201,354 | 1/4 | 186,323 | 1/4 | 171,267 | 1/4 | 156,185 | 1/4 | 141,103 | 1/4 | 126,021 | 1/4 | 110,938 | 1/4 | 95,849 |
| 1/2 | | 1/2 | | 1/2 | 201,041 | 1/2 | 186,010 | 1/2 | 170,953 | 1/2 | 155,871 | 1/2 | 140,789 | 1/2 | 125,706 | 1/2 | 110,624 | 1/2 | 95,534 |
| 3/4 | | 3/4 | | 3/4 | 200,728 | 3/4 | 185,697 | 3/4 | 170,639 | 3/4 | 155,557 | 3/4 | 140,474 | 3/4 | 125,392 | 3/4 | 110,310 | 3/4 | 95,220 |
| 2 | | 2 | 214,355 | 2 | 200,415 | 2 | 185,383 | 2 | 170,325 | 2 | 155,242 | 2 | 140,160 | 2 | 125,078 | 2 | 109,995 | 2 | 94,906 |
| 1/4 | | 1/4 | 214,176 | 1/4 | 200,101 | 1/4 | 185,070 | 1/4 | 170,010 | 1/4 | 154,928 | 1/4 | 139,846 | 1/4 | 124,764 | 1/4 | 109,681 | 1/4 | 94,591 |
| 1/2 | | 1/2 | 213,997 | 1/2 | 199,788 | 1/2 | 184,757 | 1/2 | 169,696 | 1/2 | 154,614 | 1/2 | 139,532 | 1/2 | 124,450 | 1/2 | 109,367 | 1/2 | 94,277 |
| 3/4 | | 3/4 | 213,817 | 3/4 | 199,475 | 3/4 | 184,444 | 3/4 | 169,382 | 3/4 | 154,300 | 3/4 | 139,218 | 3/4 | 124,135 | 3/4 | 109,052 | 3/4 | 93,963 |
| 3 | | 3 | 213,638 | 3 | 199,162 | 3 | 184,131 | 3 | 169,068 | 3 | 153,986 | 3 | 138,903 | 3 | 123,821 | 3 | 108,738 | 3 | 93,648 |
| 1/4 | | 1/4 | 213,407 | 1/4 | 198,849 | 1/4 | 183,818 | 1/4 | 168,754 | 1/4 | 153,671 | 1/4 | 138,589 | 1/4 | 123,507 | 1/4 | 108,424 | 1/4 | 93,334 |
| 1/2 | | 1/2 | 213,175 | 1/2 | 198,536 | 1/2 | 183,505 | 1/2 | 168,439 | 1/2 | 153,357 | 1/2 | 138,275 | 1/2 | 123,193 | 1/2 | 108,109 | 1/2 | 93,019 |
| 3/4 | | 3/4 | 212,943 | 3/4 | 198,222 | 3/4 | 183,191 | 3/4 | 168,125 | 3/4 | 153,043 | 3/4 | 137,961 | 3/4 | 122,878 | 3/4 | 107,795 | 3/4 | 92,705 |
| 4 | | 4 | 212,712 | 4 | 197,909 | 4 | 182,878 | 4 | 167,811 | 4 | 152,729 | 4 | 137,646 | 4 | 122,564 | 4 | 107,480 | 4 | 92,391 |
| 1/4 | | 1/4 | 212,431 | 1/4 | 197,596 | 1/4 | 182,565 | 1/4 | 167,497 | 1/4 | 152,415 | 1/4 | 137,332 | 1/4 | 122,250 | 1/4 | 107,166 | 1/4 | 92,076 |
| 1/2 | | 1/2 | 212,151 | 1/2 | 197,283 | 1/2 | 182,252 | 1/2 | 167,183 | 1/2 | 152,100 | 1/2 | 137,018 | 1/2 | 121,936 | 1/2 | 106,852 | 1/2 | 91,762 |
| 3/4 | | 3/4 | 211,871 | 3/4 | 196,970 | 3/4 | 181,939 | 3/4 | 166,868 | 3/4 | 151,786 | 3/4 | 136,704 | 3/4 | 121,622 | 3/4 | 106,537 | 3/4 | 91,448 |
| 5 | | 5 | 211,591 | 5 | 196,657 | 5 | 181,626 | 5 | 166,554 | 5 | 151,472 | 5 | 136,390 | 5 | 121,307 | 5 | 106,223 | 5 | 91,133 |
| 1/4 | | 1/4 | 211,285 | 1/4 | 196,344 | 1/4 | 181,313 | 1/4 | 166,240 | 1/4 | 151,158 | 1/4 | 136,075 | 1/4 | 120,993 | 1/4 | 105,909 | 1/4 | 90,819 |
| 1/2 | | 1/2 | 210,979 | 1/2 | 196,030 | 1/2 | 180,999 | 1/2 | 165,926 | 1/2 | 150,843 | 1/2 | 135,761 | 1/2 | 120,679 | 1/2 | 105,594 | 1/2 | 90,504 |
| 3/4 | | 3/4 | 210,673 | 3/4 | 195,717 | 3/4 | 180,686 | 3/4 | 165,611 | 3/4 | 150,529 | 3/4 | 135,447 | 3/4 | 120,365 | 3/4 | 105,280 | 3/4 | 90,190 |
| 6 | | 6 | 210,367 | 6 | 195,404 | 6 | 180,373 | 6 | 165,297 | 6 | 150,215 | 6 | 135,133 | 6 | 120,051 | 6 | 104,965 | 6 | 89,876 |
| 1/4 | | 1/4 | 210,057 | 1/4 | 195,091 | 1/4 | 180,060 | 1/4 | 164,983 | 1/4 | 149,901 | 1/4 | 134,819 | 1/4 | 119,736 | 1/4 | 104,651 | 1/4 | 89,561 |
| 1/2 | | 1/2 | 209,747 | 1/2 | 194,778 | 1/2 | 179,747 | 1/2 | 164,669 | 1/2 | 149,587 | 1/2 | 134,504 | 1/2 | 119,422 | 1/2 | 104,337 | 1/2 | 89,247 |
| 3/4 | | 3/4 | 209,438 | 3/4 | 194,465 | 3/4 | 179,434 | 3/4 | 164,355 | 3/4 | 149,272 | 3/4 | 134,190 | 3/4 | 119,108 | 3/4 | 104,022 | 3/4 | 88,933 |
| 7 | | 7 | 209,128 | 7 | 194,152 | 7 | 179,120 | 7 | 164,040 | 7 | 148,958 | 7 | 133,876 | 7 | 118,794 | 7 | 103,708 | 7 | 88,618 |
| 1/4 | | 1/4 | 208,818 | 1/4 | 193,838 | 1/4 | 178,807 | 1/4 | 163,726 | 1/4 | 148,644 | 1/4 | 133,562 | 1/4 | 118,479 | 1/4 | 103,394 | 1/4 | 88,304 |
| 1/2 | | 1/2 | 208,508 | 1/2 | 193,525 | 1/2 | 178,493 | 1/2 | 163,412 | 1/2 | 148,330 | 1/2 | 133,248 | 1/2 | 118,165 | 1/2 | 103,079 | 1/2 | 87,989 |
| 3/4 | | 3/4 | 208,198 | 3/4 | 193,212 | 3/4 | 178,179 | 3/4 | 163,098 | 3/4 | 148,016 | 3/4 | 132,933 | 3/4 | 117,851 | 3/4 | 102,765 | 3/4 | 87,675 |
| 8 | | 8 | 207,888 | 8 | 192,899 | 8 | 177,866 | 8 | 162,784 | 8 | 147,701 | 8 | 132,619 | 8 | 117,537 | 8 | 102,451 | 8 | 87,361 |
| 1/4 | | 1/4 | 207,577 | 1/4 | 192,586 | 1/4 | 177,552 | 1/4 | 162,469 | 1/4 | 147,387 | 1/4 | 132,305 | 1/4 | 117,223 | 1/4 | 102,136 | 1/4 | 87,046 |
| 1/2 | | 1/2 | 207,267 | 1/2 | 192,273 | 1/2 | 177,237 | 1/2 | 162,155 | 1/2 | 147,073 | 1/2 | 131,991 | 1/2 | 116,908 | 1/2 | 101,822 | 1/2 | 86,732 |
| 3/4 | | 3/4 | 206,957 | 3/4 | 191,960 | 3/4 | 176,923 | 3/4 | 161,841 | 3/4 | 146,759 | 3/4 | 131,676 | 3/4 | 116,594 | 3/4 | 101,507 | 3/4 | 86,418 |
| 9 | | 9 | 206,647 | 9 | 191,646 | 9 | 176,609 | 9 | 161,527 | 9 | 146,444 | 9 | 131,362 | 9 | 116,280 | 9 | 101,193 | 9 | 86,103 |
| 1/4 | | 1/4 | 206,337 | 1/4 | 191,333 | 1/4 | 176,295 | 1/4 | 161,212 | 1/4 | 146,130 | 1/4 | 131,048 | 1/4 | 115,966 | 1/4 | 100,879 | 1/4 | 85,789 |
| 1/2 | | 1/2 | 206,027 | 1/2 | 191,020 | 1/2 | 175,980 | 1/2 | 160,898 | 1/2 | 145,816 | 1/2 | 130,734 | 1/2 | 115,652 | 1/2 | 100,564 | 1/2 | 85,474 |
| 3/4 | | 3/4 | 205,716 | 3/4 | 190,707 | 3/4 | 175,666 | 3/4 | 160,584 | 3/4 | 145,502 | 3/4 | 130,420 | 3/4 | 115,337 | 3/4 | 100,250 | 3/4 | 85,160 |
| 10 | | 10 | 205,406 | 10 | 190,394 | 10 | 175,352 | 10 | 160,270 | 10 | 145,188 | 10 | 130,105 | 10 | 115,023 | 10 | 99,936 | 10 | 84,846 |
| 1/4 | | 1/4 | 205,096 | 1/4 | 190,081 | 1/4 | 175,038 | 1/4 | 159,956 | 1/4 | 144,873 | 1/4 | 129,791 | 1/4 | 114,709 | 1/4 | 99,621 | 1/4 | 84,531 |
| 1/2 | | 1/2 | 204,786 | 1/2 | 189,768 | 1/2 | 174,724 | 1/2 | 159,641 | 1/2 | 144,559 | 1/2 | 129,477 | 1/2 | 114,395 | 1/2 | 99,307 | 1/2 | 84,217 |
| 3/4 | | 3/4 | 204,476 | 3/4 | 189,454 | 3/4 | 174,409 | 3/4 | 159,327 | 3/4 | 144,245 | 3/4 | 129,163 | 3/4 | 114,080 | 3/4 | 98,992 | 3/4 | 83,903 |
| 11 | | 11 | 204,166 | 11 | 189,141 | 11 | 174,095 | 11 | 159,013 | 11 | 143,931 | 11 | 128,849 | 11 | 113,766 | 11 | 98,678 | 11 | 83,588 |
| 1/4 | | 1/4 | 203,854 | 1/4 | 188,828 | 1/4 | 173,781 | 1/4 | 158,699 | 1/4 | 143,617 | 1/4 | 128,534 | 1/4 | 113,452 | 1/4 | 98,364 | 1/4 | 83,274 |
| 1/2 | | 1/2 | 203,543 | 1/2 | 188,515 | 1/2 | 173,467 | 1/2 | 158,385 | 1/2 | 143,302 | 1/2 | 128,220 | 1/2 | 113,138 | 1/2 | 98,049 | 1/2 | 82,960 |
| 3/4 | | 3/4 | 203,231 | 3/4 | 188,202 | 3/4 | 173,153 | 3/4 | 158,070 | 3/4 | 142,988 | 3/4 | 127,906 | 3/4 | 112,824 | 3/4 | 97,735 | 3/4 | 82,645 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

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 | 82,331 | 0 | 67,241 | 0 | 52,151 | 0 | 37,097 | 0 | 22,009 | 0 | 6,920 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 82,016 | 1/4 | 66,927 | 1/4 | 51,837 | 1/4 | 36,782 | 1/4 | 21,695 | 1/4 | 6,605 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 81,702 | 1/2 | 66,612 | 1/2 | 51,523 | 1/2 | 36,468 | 1/2 | 21,381 | 1/2 | 6,291 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 81,388 | 3/4 | 66,298 | 3/4 | 51,209 | 3/4 | 36,154 | 3/4 | 21,066 | 3/4 | 5,977 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 81,073 | 1 | 65,983 | 1 | 50,895 | 1 | 35,839 | 1 | 20,752 | 1 | 5,662 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 80,759 | 1/4 | 65,669 | 1/4 | 50,581 | 1/4 | 35,525 | 1/4 | 20,438 | 1/4 | 5,348 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,445 | 1/2 | 65,355 | 1/2 | 50,268 | 1/2 | 35,211 | 1/2 | 20,123 | 1/2 | 5,034 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,130 | 3/4 | 65,040 | 3/4 | 49,954 | 3/4 | 34,896 | 3/4 | 19,809 | 3/4 | 4,720 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 79,816 | 2 | 64,726 | 2 | 49,640 | 2 | 34,582 | 2 | 19,494 | 2 | 4,406 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 79,501 | 1/4 | 64,412 | 1/4 | 49,327 | 1/4 | 34,267 | 1/4 | 19,180 | 1/4 | 4,092 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,187 | 1/2 | 64,097 | 1/2 | 49,013 | 1/2 | 33,953 | 1/2 | 18,866 | 1/2 | 3,779 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,873 | 3/4 | 63,783 | 3/4 | 48,700 | 3/4 | 33,639 | 3/4 | 18,551 | 3/4 | 3,466 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 78,558 | 3 | 63,469 | 3 | 48,386 | 3 | 33,324 | 3 | 18,237 | 3 | 3,152 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 78,244 | 1/4 | 63,154 | 1/4 | 48,073 | 1/4 | 33,010 | 1/4 | 17,923 | 1/4 | 2,858 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,930 | 1/2 | 62,840 | 1/2 | 47,759 | 1/2 | 32,696 | 1/2 | 17,608 | 1/2 | 2,564 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,615 | 3/4 | 62,525 | 3/4 | 47,446 | 3/4 | 32,381 | 3/4 | 17,294 | 3/4 | 2,270 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 77,301 | 4 | 62,211 | 4 | 47,132 | 4 | 32,067 | 4 | 16,979 | 4 | 1,977 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 76,986 | 1/4 | 61,897 | 1/4 | 46,819 | 1/4 | 31,753 | 1/4 | 16,665 | 1/4 | 1,741 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,672 | 1/2 | 61,582 | 1/2 | 46,506 | 1/2 | 31,438 | 1/2 | 16,351 | 1/2 | 1,505 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,358 | 3/4 | 61,268 | 3/4 | 46,192 | 3/4 | 31,124 | 3/4 | 16,036 | 3/4 | 1,269 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 76,043 | 5 | 60,954 | 5 | 45,879 | 5 | 30,809 | 5 | 15,722 | 5 | 1,033 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 75,729 | 1/4 | 60,639 | 1/4 | 45,565 | 1/4 | 30,495 | 1/4 | 15,408 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,415 | 1/2 | 60,325 | 1/2 | 45,252 | 1/2 | 30,181 | 1/2 | 15,093 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,100 | 3/4 | 60,010 | 3/4 | 44,938 | 3/4 | 29,867 | 3/4 | 14,779 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 74,786 | 6 | 59,696 | 6 | 44,625 | 6 | 29,552 | 6 | 14,464 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 74,472 | 1/4 | 59,382 | 1/4 | 44,312 | 1/4 | 29,238 | 1/4 | 14,150 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,157 | 1/2 | 59,067 | 1/2 | 43,998 | 1/2 | 28,924 | 1/2 | 13,836 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,843 | 3/4 | 58,753 | 3/4 | 43,685 | 3/4 | 28,610 | 3/4 | 13,521 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 73,528 | 7 | 58,439 | 7 | 43,371 | 7 | 28,296 | 7 | 13,207 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 73,214 | 1/4 | 58,124 | 1/4 | 43,058 | 1/4 | 27,981 | 1/4 | 12,893 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,900 | 1/2 | 57,810 | 1/2 | 42,744 | 1/2 | 27,667 | 1/2 | 12,578 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,585 | 3/4 | 57,495 | 3/4 | 42,431 | 3/4 | 27,353 | 3/4 | 12,264 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 72,271 | 8 | 57,181 | 8 | 42,117 | 8 | 27,039 | 8 | 11,950 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 71,957 | 1/4 | 56,867 | 1/4 | 41,804 | 1/4 | 26,725 | 1/4 | 11,635 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,642 | 1/2 | 56,552 | 1/2 | 41,491 | 1/2 | 26,410 | 1/2 | 11,321 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,328 | 3/4 | 56,238 | 3/4 | 41,177 | 3/4 | 26,096 | 3/4 | 11,006 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 71,013 | 9 | 55,924 | 9 | 40,864 | 9 | 25,782 | 9 | 10,692 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 70,699 | 1/4 | 55,609 | 1/4 | 40,550 | 1/4 | 25,467 | 1/4 | 10,378 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,385 | 1/2 | 55,295 | 1/2 | 40,237 | 1/2 | 25,153 | 1/2 | 10,063 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,070 | 3/4 | 54,981 | 3/4 | 39,923 | 3/4 | 24,839 | 3/4 | 9,749 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 69,756 | 10 | 54,666 | 10 | 39,610 | 10 | 24,524 | 10 | 9,435 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 69,442 | 1/4 | 54,352 | 1/4 | 39,296 | 1/4 | 24,210 | 1/4 | 9,120 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 69,127 | 1/2 | 54,037 | 1/2 | 38,982 | 1/2 | 23,896 | 1/2 | 8,806 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 68,813 | 3/4 | 53,723 | 3/4 | 38,668 | 3/4 | 23,581 | 3/4 | 8,491 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 68,498 | 11 | 53,409 | 11 | 38,354 | 11 | 23,267 | 11 | 8,177 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 68,184 | 1/4 | 53,094 | 1/4 | 38,040 | 1/4 | 22,952 | 1/4 | 7,863 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 67,870 | 1/2 | 52,780 | 1/2 | 37,726 | 1/2 | 22,638 | 1/2 | 7,548 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 67,555 | 3/4 | 52,466 | 3/4 | 37,411 | 3/4 | 22,324 | 3/4 | 7,234 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 184,243 | 0 | 173,914 | 0 | 163,572 | 0 | 153,206 | 0 | 141,239 | 0 | 126,278 | 0 | 111,317 | 0 | 96,343 |
| 1/4 | | 1/4 | | 1/4 | 184,027 | 1/4 | 173,698 | 1/4 | 163,356 | 1/4 | 152,990 | 1/4 | 140,927 | 1/4 | 125,967 | 1/4 | 111,005 | 1/4 | 96,031 |
| 1/2 | | 1/2 | | 1/2 | 183,812 | 1/2 | 173,483 | 1/2 | 163,140 | 1/2 | 152,774 | 1/2 | 140,616 | 1/2 | 125,655 | 1/2 | 110,694 | 1/2 | 95,719 |
| 3/4 | | 3/4 | | 3/4 | 183,597 | 3/4 | 173,268 | 3/4 | 162,924 | 3/4 | 152,559 | 3/4 | 140,304 | 3/4 | 125,343 | 3/4 | 110,382 | 3/4 | 95,407 |
| 1 | | 1 | | 1 | 183,382 | 1 | 173,053 | 1 | 162,708 | 1 | 152,343 | 1 | 139,993 | 1 | 125,032 | 1 | 110,070 | 1 | 95,095 |
| 1/4 | | 1/4 | | 1/4 | 183,167 | 1/4 | 172,838 | 1/4 | 162,492 | 1/4 | 152,127 | 1/4 | 139,681 | 1/4 | 124,720 | 1/4 | 109,759 | 1/4 | 94,783 |
| 1/2 | | 1/2 | | 1/2 | 182,951 | 1/2 | 172,622 | 1/2 | 162,276 | 1/2 | 151,911 | 1/2 | 139,369 | 1/2 | 124,408 | 1/2 | 109,447 | 1/2 | 94,471 |
| 3/4 | | 3/4 | | 3/4 | 182,736 | 3/4 | 172,407 | 3/4 | 162,060 | 3/4 | 151,695 | 3/4 | 139,058 | 3/4 | 124,096 | 3/4 | 109,135 | 3/4 | 94,160 |
| 2 | | 2 | | 2 | 182,521 | 2 | 172,192 | 2 | 161,844 | 2 | 151,479 | 2 | 138,746 | 2 | 123,785 | 2 | 108,823 | 2 | 93,848 |
| 1/4 | | 1/4 | | 1/4 | 191,943 | 1/4 | 182,306 | 1/4 | 171,977 | 1/4 | 161,628 | 1/4 | 151,263 | 1/4 | 138,434 | 1/4 | 123,473 | 1/4 | 108,512 |
| 1/2 | | 1/2 | | 1/2 | 191,819 | 1/2 | 182,091 | 1/2 | 171,762 | 1/2 | 161,412 | 1/2 | 151,047 | 1/2 | 138,123 | 1/2 | 123,161 | 1/2 | 108,200 |
| 3/4 | | 3/4 | | 3/4 | 191,696 | 3/4 | 181,875 | 3/4 | 171,547 | 3/4 | 161,196 | 3/4 | 150,831 | 3/4 | 137,811 | 3/4 | 122,850 | 3/4 | 107,888 |
| 3 | | 3 | | 3 | 191,572 | 3 | 181,660 | 3 | 171,331 | 3 | 160,980 | 3 | 150,615 | 3 | 137,499 | 3 | 122,538 | 3 | 107,576 |
| 1/4 | | 1/4 | | 1/4 | 191,449 | 1/4 | 181,445 | 1/4 | 171,116 | 1/4 | 160,764 | 1/4 | 150,399 | 1/4 | 137,187 | 1/4 | 122,226 | 1/4 | 107,264 |
| 1/2 | | 1/2 | | 1/2 | 191,289 | 1/2 | 181,230 | 1/2 | 170,901 | 1/2 | 160,549 | 1/2 | 150,183 | 1/2 | 136,876 | 1/2 | 121,915 | 1/2 | 106,953 |
| 3/4 | | 3/4 | | 3/4 | 191,129 | 3/4 | 181,015 | 3/4 | 170,686 | 3/4 | 160,333 | 3/4 | 149,967 | 3/4 | 136,564 | 3/4 | 121,603 | 3/4 | 106,641 |
| 4 | | 4 | | 4 | 190,970 | 4 | 180,800 | 4 | 170,471 | 4 | 160,117 | 4 | 149,751 | 4 | 136,252 | 4 | 121,291 | 4 | 106,329 |
| 1/4 | | 1/4 | | 1/4 | 190,810 | 1/4 | 180,584 | 1/4 | 170,255 | 1/4 | 159,901 | 1/4 | 149,535 | 1/4 | 135,941 | 1/4 | 120,980 | 1/4 | 106,017 |
| 1/2 | | 1/2 | | 1/2 | 190,617 | 1/2 | 180,369 | 1/2 | 170,040 | 1/2 | 159,685 | 1/2 | 149,316 | 1/2 | 135,629 | 1/2 | 120,668 | 1/2 | 105,705 |
| 3/4 | | 3/4 | | 3/4 | 190,424 | 3/4 | 180,154 | 3/4 | 169,825 | 3/4 | 159,469 | 3/4 | 149,096 | 3/4 | 135,317 | 3/4 | 120,356 | 3/4 | 105,392 |
| 5 | | 5 | | 5 | 190,231 | 5 | 179,939 | 5 | 169,610 | 5 | 159,253 | 5 | 148,877 | 5 | 135,006 | 5 | 120,044 | 5 | 105,080 |
| 1/4 | | 1/4 | | 1/4 | 190,038 | 1/4 | 179,724 | 1/4 | 169,395 | 1/4 | 159,037 | 1/4 | 148,657 | 1/4 | 134,694 | 1/4 | 119,733 | 1/4 | 104,768 |
| 1/2 | | 1/2 | | 1/2 | 189,826 | 1/2 | 179,508 | 1/2 | 169,180 | 1/2 | 158,821 | 1/2 | 148,426 | 1/2 | 134,382 | 1/2 | 119,421 | 1/2 | 104,456 |
| 3/4 | | 3/4 | | 3/4 | 189,615 | 3/4 | 179,293 | 3/4 | 168,964 | 3/4 | 158,605 | 3/4 | 148,195 | 3/4 | 134,071 | 3/4 | 119,109 | 3/4 | 104,144 |
| 6 | | 6 | | 6 | 189,403 | 6 | 179,078 | 6 | 168,749 | 6 | 158,389 | 6 | 147,964 | 6 | 133,759 | 6 | 118,798 | 6 | 103,832 |
| 1/4 | | 1/4 | | 1/4 | 189,192 | 1/4 | 178,863 | 1/4 | 168,534 | 1/4 | 158,173 | 1/4 | 147,733 | 1/4 | 133,447 | 1/4 | 118,486 | 1/4 | 103,520 |
| 1/2 | | 1/2 | | 1/2 | 188,977 | 1/2 | 178,648 | 1/2 | 168,319 | 1/2 | 157,957 | 1/2 | 147,486 | 1/2 | 133,135 | 1/2 | 118,174 | 1/2 | 103,208 |
| 3/4 | | 3/4 | | 3/4 | 188,762 | 3/4 | 178,433 | 3/4 | 168,104 | 3/4 | 157,741 | 3/4 | 147,239 | 3/4 | 132,824 | 3/4 | 117,863 | 3/4 | 102,896 |
| 7 | | 7 | | 7 | 188,547 | 7 | 178,217 | 7 | 167,888 | 7 | 157,525 | 7 | 146,992 | 7 | 132,512 | 7 | 117,551 | 7 | 102,583 |
| 1/4 | | 1/4 | | 1/4 | 188,332 | 1/4 | 178,002 | 1/4 | 167,673 | 1/4 | 157,309 | 1/4 | 146,745 | 1/4 | 132,200 | 1/4 | 117,239 | 1/4 | 102,271 |
| 1/2 | | 1/2 | | 1/2 | 188,117 | 1/2 | 177,787 | 1/2 | 167,458 | 1/2 | 157,093 | 1/2 | 146,482 | 1/2 | 131,889 | 1/2 | 116,928 | 1/2 | 101,959 |
| 3/4 | | 3/4 | | 3/4 | 187,901 | 3/4 | 177,572 | 3/4 | 167,242 | 3/4 | 156,877 | 3/4 | 146,219 | 3/4 | 131,577 | 3/4 | 116,616 | 3/4 | 101,647 |
| 8 | | 8 | | 8 | 187,686 | 8 | 177,357 | 8 | 167,027 | 8 | 156,662 | 8 | 145,956 | 8 | 131,265 | 8 | 116,304 | 8 | 101,335 |
| 1/4 | | 1/4 | | 1/4 | 187,471 | 1/4 | 177,141 | 1/4 | 166,811 | 1/4 | 156,446 | 1/4 | 145,693 | 1/4 | 130,954 | 1/4 | 115,992 | 1/4 | 101,023 |
| 1/2 | | 1/2 | | 1/2 | 187,256 | 1/2 | 176,926 | 1/2 | 166,595 | 1/2 | 156,230 | 1/2 | 145,415 | 1/2 | 130,642 | 1/2 | 115,681 | 1/2 | 100,711 |
| 3/4 | | 3/4 | | 3/4 | 187,040 | 3/4 | 176,711 | 3/4 | 166,379 | 3/4 | 156,014 | 3/4 | 145,136 | 3/4 | 130,330 | 3/4 | 115,369 | 3/4 | 100,399 |
| 9 | | 9 | | 9 | 186,825 | 9 | 176,496 | 9 | 166,163 | 9 | 155,798 | 9 | 144,858 | 9 | 130,019 | 9 | 115,057 | 9 | 100,087 |
| 1/4 | | 1/4 | | 1/4 | 186,610 | 1/4 | 176,281 | 1/4 | 165,947 | 1/4 | 155,582 | 1/4 | 144,579 | 1/4 | 129,707 | 1/4 | 114,746 | 1/4 | 99,775 |
| 1/2 | | 1/2 | | 1/2 | 186,395 | 1/2 | 176,065 | 1/2 | 165,731 | 1/2 | 155,366 | 1/2 | 144,285 | 1/2 | 129,395 | 1/2 | 114,434 | 1/2 | 99,462 |
| 3/4 | | 3/4 | | 3/4 | 186,179 | 3/4 | 175,850 | 3/4 | 165,515 | 3/4 | 155,150 | 3/4 | 143,990 | 3/4 | 129,083 | 3/4 | 114,122 | 3/4 | 99,150 |
| 10 | | 10 | | 10 | 185,964 | 10 | 175,635 | 10 | 165,299 | 10 | 154,934 | 10 | 143,695 | 10 | 128,772 | 10 | 113,811 | 10 | 98,838 |
| 1/4 | | 1/4 | | 1/4 | 185,749 | 1/4 | 175,420 | 1/4 | 165,083 | 1/4 | 154,718 | 1/4 | 143,401 | 1/4 | 128,460 | 1/4 | 113,499 | 1/4 | 98,526 |
| 1/2 | | 1/2 | | 1/2 | 185,534 | 1/2 | 175,205 | 1/2 | 164,867 | 1/2 | 154,502 | 1/2 | 143,094 | 1/2 | 128,148 | 1/2 | 113,187 | 1/2 | 98,214 |
| 3/4 | | 3/4 | | 3/4 | 185,318 | 3/4 | 174,990 | 3/4 | 164,652 | 3/4 | 154,286 | 3/4 | 142,787 | 3/4 | 127,837 | 3/4 | 112,876 | 3/4 | 97,902 |
| 11 | | 11 | | 11 | 185,103 | 11 | 174,774 | 11 | 164,436 | 11 | 154,070 | 11 | 142,480 | 11 | 127,525 | 11 | 112,564 | 11 | 97,590 |
| 1/4 | | 1/4 | | 1/4 | 184,888 | 1/4 | 174,559 | 1/4 | 164,220 | 1/4 | 153,854 | 1/4 | 142,173 | 1/4 | 127,213 | 1/4 | 112,252 | 1/4 | 97,278 |
| 1/2 | | 1/2 | | 1/2 | 184,673 | 1/2 | 174,344 | 1/2 | 164,004 | 1/2 | 153,638 | 1/2 | 141,862 | 1/2 | 126,902 | 1/2 | 111,941 | 1/2 | 96,966 |
| 3/4 | | 3/4 | | 3/4 | 184,458 | 3/4 | 174,129 | 3/4 | 163,788 | 3/4 | 153,422 | 3/4 | 141,550 | 3/4 | 126,590 | 3/4 | 111,629 | 3/4 | 96,654 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 81,367 | 0 | 66,455 | 0 | 51,716 | 0 | 37,145 | 0 | 22,186 | 0 | 7,194 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 81,055 | 1/4 | 66,145 | 1/4 | 51,414 | 1/4 | 36,840 | 1/4 | 21,874 | 1/4 | 6,881 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,743 | 1/2 | 65,835 | 1/2 | 51,111 | 1/2 | 36,532 | 1/2 | 21,562 | 1/2 | 6,569 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,430 | 3/4 | 65,525 | 3/4 | 50,809 | 3/4 | 36,224 | 3/4 | 21,249 | 3/4 | 6,256 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 80,118 | 1 | 65,215 | 1 | 50,507 | 1 | 35,916 | 1 | 20,937 | 1 | 5,944 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 79,806 | 1/4 | 64,904 | 1/4 | 50,204 | 1/4 | 35,608 | 1/4 | 20,625 | 1/4 | 5,632 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,494 | 1/2 | 64,594 | 1/2 | 49,902 | 1/2 | 35,296 | 1/2 | 20,313 | 1/2 | 5,319 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 79,182 | 3/4 | 64,284 | 3/4 | 49,599 | 3/4 | 34,984 | 3/4 | 20,000 | 3/4 | 5,007 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 78,870 | 2 | 63,974 | 2 | 49,297 | 2 | 34,673 | 2 | 19,688 | 2 | 4,694 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 78,557 | 1/4 | 63,664 | 1/4 | 48,995 | 1/4 | 34,361 | 1/4 | 19,376 | 1/4 | 4,382 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 78,246 | 1/2 | 63,353 | 1/2 | 48,692 | 1/2 | 34,049 | 1/2 | 19,064 | 1/2 | 4,070 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,935 | 3/4 | 63,042 | 3/4 | 48,390 | 3/4 | 33,737 | 3/4 | 18,751 | 3/4 | 3,759 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 77,624 | 3 | 62,730 | 3 | 48,088 | 3 | 33,424 | 3 | 18,439 | 3 | 3,447 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 77,313 | 1/4 | 62,419 | 1/4 | 47,785 | 1/4 | 33,112 | 1/4 | 18,127 | 1/4 | 3,135 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,002 | 1/2 | 62,108 | 1/2 | 47,483 | 1/2 | 32,800 | 1/2 | 17,815 | 1/2 | 2,843 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,692 | 3/4 | 61,796 | 3/4 | 47,181 | 3/4 | 32,488 | 3/4 | 17,502 | 3/4 | 2,550 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 76,382 | 4 | 61,484 | 4 | 46,879 | 4 | 32,175 | 4 | 17,190 | 4 | 2,258 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 76,072 | 1/4 | 61,172 | 1/4 | 46,577 | 1/4 | 31,863 | 1/4 | 16,878 | 1/4 | 1,965 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,762 | 1/2 | 60,860 | 1/2 | 46,276 | 1/2 | 31,551 | 1/2 | 16,566 | 1/2 | 1,731 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,451 | 3/4 | 60,548 | 3/4 | 45,974 | 3/4 | 31,239 | 3/4 | 16,254 | 3/4 | 1,496 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 75,141 | 5 | 60,236 | 5 | 45,673 | 5 | 30,927 | 5 | 15,941 | 5 | 1,262 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 74,831 | 1/4 | 59,925 | 1/4 | 45,371 | 1/4 | 30,614 | 1/4 | 15,629 | 1/4 | 1,028 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,521 | 1/2 | 59,616 | 1/2 | 45,068 | 1/2 | 30,302 | 1/2 | 15,317 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,211 | 3/4 | 59,307 | 3/4 | 44,764 | 3/4 | 29,990 | 3/4 | 15,005 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 73,900 | 6 | 58,998 | 6 | 44,461 | 6 | 29,678 | 6 | 14,692 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 73,590 | 1/4 | 58,690 | 1/4 | 44,158 | 1/4 | 29,366 | 1/4 | 14,380 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,280 | 1/2 | 58,384 | 1/2 | 43,853 | 1/2 | 29,054 | 1/2 | 14,068 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,970 | 3/4 | 58,079 | 3/4 | 43,548 | 3/4 | 28,742 | 3/4 | 13,756 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 72,660 | 7 | 57,773 | 7 | 43,243 | 7 | 28,430 | 7 | 13,443 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 72,349 | 1/4 | 57,467 | 1/4 | 42,938 | 1/4 | 28,117 | 1/4 | 13,131 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,039 | 1/2 | 57,164 | 1/2 | 42,633 | 1/2 | 27,805 | 1/2 | 12,819 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,729 | 3/4 | 56,860 | 3/4 | 42,329 | 3/4 | 27,493 | 3/4 | 12,507 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 71,419 | 8 | 56,556 | 8 | 42,024 | 8 | 27,181 | 8 | 12,195 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 71,109 | 1/4 | 56,252 | 1/4 | 41,719 | 1/4 | 26,869 | 1/4 | 11,882 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,798 | 1/2 | 55,949 | 1/2 | 41,414 | 1/2 | 26,557 | 1/2 | 11,570 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,488 | 3/4 | 55,647 | 3/4 | 41,109 | 3/4 | 26,245 | 3/4 | 11,257 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 70,178 | 9 | 55,345 | 9 | 40,804 | 9 | 25,933 | 9 | 10,945 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 69,868 | 1/4 | 55,042 | 1/4 | 40,499 | 1/4 | 25,621 | 1/4 | 10,632 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 69,557 | 1/2 | 54,740 | 1/2 | 40,194 | 1/2 | 25,308 | 1/2 | 10,320 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 69,247 | 3/4 | 54,437 | 3/4 | 39,889 | 3/4 | 24,996 | 3/4 | 10,007 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 68,937 | 10 | 54,135 | 10 | 39,584 | 10 | 24,684 | 10 | 9,694 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 68,627 | 1/4 | 53,833 | 1/4 | 39,279 | 1/4 | 24,372 | 1/4 | 9,381 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 68,317 | 1/2 | 53,530 | 1/2 | 38,975 | 1/2 | 24,059 | 1/2 | 9,069 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 68,006 | 3/4 | 53,228 | 3/4 | 38,670 | 3/4 | 23,747 | 3/4 | 8,756 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 67,696 | 11 | 52,926 | 11 | 38,365 | 11 | 23,435 | 11 | 8,444 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 67,386 | 1/4 | 52,623 | 1/4 | 38,060 | 1/4 | 23,123 | 1/4 | 8,131 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 67,076 | 1/2 | 52,321 | 1/2 | 37,755 | 1/2 | 22,810 | 1/2 | 7,819 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 66,766 | 3/4 | 52,018 | 3/4 | 37,450 | 3/4 | 22,498 | 3/4 | 7,506 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 185,349 | 0 | 175,016 | 0 | 164,670 | 0 | 154,301 | 0 | 142,316 | 0 | 127,317 | 0 | 112,317 | 0 | 97,302 |
| 1/4 | | 1/4 | | 1/4 | 185,134 | 1/4 | 174,801 | 1/4 | 164,454 | 1/4 | 154,085 | 1/4 | 142,004 | 1/4 | 127,004 | 1/4 | 112,004 | 1/4 | 96,989 |
| 1/2 | | 1/2 | | 1/2 | 184,919 | 1/2 | 174,586 | 1/2 | 164,238 | 1/2 | 153,869 | 1/2 | 141,691 | 1/2 | 126,692 | 1/2 | 111,692 | 1/2 | 96,676 |
| 3/4 | | 3/4 | | 3/4 | 184,704 | 3/4 | 174,371 | 3/4 | 164,022 | 3/4 | 153,653 | 3/4 | 141,379 | 3/4 | 126,379 | 3/4 | 111,379 | 3/4 | 96,363 |
| 1 | | 1 | | 1 | 184,488 | 1 | 174,155 | 1 | 163,806 | 1 | 153,437 | 1 | 141,067 | 1 | 126,067 | 1 | 111,067 | 1 | 96,050 |
| 1/4 | | 1/4 | | 1/4 | 184,273 | 1/4 | 173,940 | 1/4 | 163,590 | 1/4 | 153,221 | 1/4 | 140,754 | 1/4 | 125,754 | 1/4 | 110,754 | 1/4 | 95,737 |
| 1/2 | | 1/2 | | 1/2 | 184,058 | 1/2 | 173,725 | 1/2 | 163,374 | 1/2 | 153,005 | 1/2 | 140,442 | 1/2 | 125,442 | 1/2 | 110,441 | 1/2 | 95,424 |
| 3/4 | | 3/4 | | 3/4 | 183,843 | 3/4 | 173,509 | 3/4 | 163,158 | 3/4 | 152,789 | 3/4 | 140,129 | 3/4 | 125,129 | 3/4 | 110,129 | 3/4 | 95,111 |
| 2 | | 2 | | 2 | 183,627 | 2 | 173,294 | 2 | 162,942 | 2 | 152,573 | 2 | 139,817 | 2 | 124,817 | 2 | 109,816 | 2 | 94,798 |
| 1/4 | | 1/4 | | 1/4 | 193,053 | 1/4 | 183,412 | 1/4 | 173,079 | 1/4 | 162,726 | 1/4 | 152,356 | 1/4 | 139,504 | 1/4 | 124,504 | 1/4 | 109,504 |
| 1/2 | | 1/2 | | 1/2 | 192,929 | 1/2 | 183,197 | 1/2 | 172,864 | 1/2 | 162,510 | 1/2 | 152,140 | 1/2 | 139,192 | 1/2 | 124,192 | 1/2 | 109,191 |
| 3/4 | | 3/4 | | 3/4 | 192,806 | 3/4 | 182,981 | 3/4 | 172,648 | 3/4 | 162,294 | 3/4 | 151,924 | 3/4 | 138,879 | 3/4 | 123,879 | 3/4 | 108,879 |
| 3 | | 3 | | 3 | 192,682 | 3 | 182,766 | 3 | 172,433 | 3 | 162,078 | 3 | 151,708 | 3 | 138,567 | 3 | 123,567 | 3 | 108,566 |
| 1/4 | | 1/4 | | 1/4 | 192,558 | 1/4 | 182,551 | 1/4 | 172,218 | 1/4 | 161,862 | 1/4 | 151,492 | 1/4 | 138,254 | 1/4 | 123,254 | 1/4 | 108,253 |
| 1/2 | | 1/2 | | 1/2 | 192,399 | 1/2 | 182,336 | 1/2 | 172,003 | 1/2 | 161,646 | 1/2 | 151,276 | 1/2 | 137,942 | 1/2 | 122,942 | 1/2 | 107,941 |
| 3/4 | | 3/4 | | 3/4 | 192,239 | 3/4 | 182,120 | 3/4 | 171,787 | 3/4 | 161,430 | 3/4 | 151,060 | 3/4 | 137,629 | 3/4 | 122,629 | 3/4 | 107,628 |
| 4 | | 4 | | 4 | 192,079 | 4 | 181,905 | 4 | 171,572 | 4 | 161,214 | 4 | 150,844 | 4 | 137,317 | 4 | 122,317 | 4 | 107,315 |
| 1/4 | | 1/4 | | 1/4 | 191,920 | 1/4 | 181,690 | 1/4 | 171,357 | 1/4 | 160,998 | 1/4 | 150,628 | 1/4 | 137,004 | 1/4 | 122,004 | 1/4 | 107,002 |
| 1/2 | | 1/2 | | 1/2 | 191,727 | 1/2 | 181,475 | 1/2 | 171,141 | 1/2 | 160,782 | 1/2 | 150,409 | 1/2 | 136,692 | 1/2 | 121,692 | 1/2 | 106,689 |
| 3/4 | | 3/4 | | 3/4 | 191,533 | 3/4 | 181,259 | 3/4 | 170,926 | 3/4 | 160,566 | 3/4 | 150,189 | 3/4 | 136,379 | 3/4 | 121,379 | 3/4 | 106,376 |
| 5 | | 5 | | 5 | 191,340 | 5 | 181,044 | 5 | 170,711 | 5 | 160,350 | 5 | 149,969 | 5 | 136,067 | 5 | 121,067 | 5 | 106,064 |
| 1/4 | | 1/4 | | 1/4 | 191,147 | 1/4 | 180,829 | 1/4 | 170,496 | 1/4 | 160,134 | 1/4 | 149,750 | 1/4 | 135,754 | 1/4 | 120,754 | 1/4 | 105,751 |
| 1/2 | | 1/2 | | 1/2 | 190,936 | 1/2 | 180,613 | 1/2 | 170,280 | 1/2 | 159,918 | 1/2 | 149,519 | 1/2 | 135,442 | 1/2 | 120,442 | 1/2 | 105,438 |
| 3/4 | | 3/4 | | 3/4 | 190,724 | 3/4 | 180,398 | 3/4 | 170,065 | 3/4 | 159,702 | 3/4 | 149,287 | 3/4 | 135,129 | 3/4 | 120,129 | 3/4 | 105,125 |
| 6 | | 6 | | 6 | 190,512 | 6 | 180,183 | 6 | 169,850 | 6 | 159,486 | 6 | 149,056 | 6 | 134,817 | 6 | 119,817 | 6 | 104,812 |
| 1/4 | | 1/4 | | 1/4 | 190,301 | 1/4 | 179,968 | 1/4 | 169,635 | 1/4 | 159,270 | 1/4 | 148,825 | 1/4 | 134,504 | 1/4 | 119,504 | 1/4 | 104,499 |
| 1/2 | | 1/2 | | 1/2 | 190,086 | 1/2 | 179,752 | 1/2 | 169,419 | 1/2 | 159,054 | 1/2 | 148,578 | 1/2 | 134,192 | 1/2 | 119,192 | 1/2 | 104,186 |
| 3/4 | | 3/4 | | 3/4 | 189,871 | 3/4 | 179,537 | 3/4 | 169,204 | 3/4 | 158,837 | 3/4 | 148,330 | 3/4 | 133,879 | 3/4 | 118,879 | 3/4 | 103,873 |
| 7 | | 7 | | 7 | 189,656 | 7 | 179,322 | 7 | 168,989 | 7 | 158,621 | 7 | 148,083 | 7 | 133,567 | 7 | 118,567 | 7 | 103,560 |
| 1/4 | | 1/4 | | 1/4 | 189,440 | 1/4 | 179,107 | 1/4 | 168,773 | 1/4 | 158,405 | 1/4 | 147,836 | 1/4 | 133,254 | 1/4 | 118,254 | 1/4 | 103,247 |
| 1/2 | | 1/2 | | 1/2 | 189,225 | 1/2 | 178,891 | 1/2 | 168,558 | 1/2 | 158,189 | 1/2 | 147,572 | 1/2 | 132,942 | 1/2 | 117,942 | 1/2 | 102,934 |
| 3/4 | | 3/4 | | 3/4 | 189,010 | 3/4 | 178,676 | 3/4 | 168,342 | 3/4 | 157,973 | 3/4 | 147,309 | 3/4 | 132,629 | 3/4 | 117,629 | 3/4 | 102,621 |
| 8 | | 8 | | 8 | 188,795 | 8 | 178,461 | 8 | 168,127 | 8 | 157,757 | 8 | 147,046 | 8 | 132,317 | 8 | 117,317 | 8 | 102,309 |
| 1/4 | | 1/4 | | 1/4 | 188,579 | 1/4 | 178,245 | 1/4 | 167,911 | 1/4 | 157,541 | 1/4 | 146,782 | 1/4 | 132,004 | 1/4 | 117,004 | 1/4 | 101,996 |
| 1/2 | | 1/2 | | 1/2 | 188,364 | 1/2 | 178,030 | 1/2 | 167,695 | 1/2 | 157,325 | 1/2 | 146,503 | 1/2 | 131,692 | 1/2 | 116,692 | 1/2 | 101,683 |
| 3/4 | | 3/4 | | 3/4 | 188,148 | 3/4 | 177,815 | 3/4 | 167,479 | 3/4 | 157,109 | 3/4 | 146,224 | 3/4 | 131,379 | 3/4 | 116,379 | 3/4 | 101,370 |
| 9 | | 9 | | 9 | 187,933 | 9 | 177,600 | 9 | 167,263 | 9 | 156,893 | 9 | 145,945 | 9 | 131,067 | 9 | 116,067 | 9 | 101,057 |
| 1/4 | | 1/4 | | 1/4 | 187,718 | 1/4 | 177,384 | 1/4 | 167,047 | 1/4 | 156,677 | 1/4 | 145,665 | 1/4 | 130,754 | 1/4 | 115,754 | 1/4 | 100,744 |
| 1/2 | | 1/2 | | 1/2 | 187,502 | 1/2 | 177,169 | 1/2 | 166,831 | 1/2 | 156,461 | 1/2 | 145,370 | 1/2 | 130,442 | 1/2 | 115,442 | 1/2 | 100,431 |
| 3/4 | | 3/4 | | 3/4 | 187,287 | 3/4 | 176,954 | 3/4 | 166,615 | 3/4 | 156,245 | 3/4 | 145,074 | 3/4 | 130,129 | 3/4 | 115,129 | 3/4 | 100,118 |
| 10 | | 10 | | 10 | 187,072 | 10 | 176,739 | 10 | 166,399 | 10 | 156,029 | 10 | 144,779 | 10 | 129,817 | 10 | 114,817 | 10 | 99,805 |
| 1/4 | | 1/4 | | 1/4 | 186,856 | 1/4 | 176,523 | 1/4 | 166,183 | 1/4 | 155,813 | 1/4 | 144,484 | 1/4 | 129,504 | 1/4 | 114,504 | 1/4 | 99,492 |
| 1/2 | | 1/2 | | 1/2 | 186,641 | 1/2 | 176,308 | 1/2 | 165,967 | 1/2 | 155,597 | 1/2 | 144,176 | 1/2 | 129,192 | 1/2 | 114,192 | 1/2 | 99,179 |
| 3/4 | | 3/4 | | 3/4 | 186,426 | 3/4 | 176,093 | 3/4 | 165,751 | 3/4 | 155,381 | 3/4 | 143,868 | 3/4 | 128,879 | 3/4 | 113,879 | 3/4 | 98,866 |
| 11 | | 11 | | 11 | 186,211 | 11 | 175,877 | 11 | 165,534 | 11 | 155,165 | 11 | 143,560 | 11 | 128,567 | 11 | 113,567 | 11 | 98,553 |
| 1/4 | | 1/4 | | 1/4 | 185,995 | 1/4 | 175,662 | 1/4 | 165,318 | 1/4 | 154,949 | 1/4 | 143,253 | 1/4 | 128,254 | 1/4 | 113,254 | 1/4 | 98,241 |
| 1/2 | | 1/2 | | 1/2 | 185,780 | 1/2 | 175,447 | 1/2 | 165,102 | 1/2 | 154,733 | 1/2 | 142,940 | 1/2 | 127,942 | 1/2 | 112,942 | 1/2 | 97,928 |
| 3/4 | | 3/4 | | 3/4 | 185,565 | 3/4 | 175,232 | 3/4 | 164,886 | 3/4 | 154,517 | 3/4 | 142,628 | 3/4 | 127,629 | 3/4 | 112,629 | 3/4 | 97,615 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3004"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 82,282 | 0 | 67,262 | 0 | 52,242 | 0 | 37,236 | 0 | 22,220 | 0 | 7,200 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 81,969 | 1/4 | 66,949 | 1/4 | 51,929 | 1/4 | 36,924 | 1/4 | 21,907 | 1/4 | 6,887 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 81,656 | 1/2 | 66,636 | 1/2 | 51,616 | 1/2 | 36,611 | 1/2 | 21,594 | 1/2 | 6,575 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 81,343 | 3/4 | 66,323 | 3/4 | 51,303 | 3/4 | 36,299 | 3/4 | 21,281 | 3/4 | 6,262 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 81,030 | 1 | 66,010 | 1 | 50,990 | 1 | 35,986 | 1 | 20,968 | 1 | 5,949 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 80,717 | 1/4 | 65,697 | 1/4 | 50,677 | 1/4 | 35,674 | 1/4 | 20,655 | 1/4 | 5,636 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,404 | 1/2 | 65,384 | 1/2 | 50,364 | 1/2 | 35,361 | 1/2 | 20,342 | 1/2 | 5,323 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,091 | 3/4 | 65,071 | 3/4 | 50,051 | 3/4 | 35,049 | 3/4 | 20,030 | 3/4 | 5,011 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 79,778 | 2 | 64,758 | 2 | 49,738 | 2 | 34,736 | 2 | 19,717 | 2 | 4,698 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 79,466 | 1/4 | 64,445 | 1/4 | 49,425 | 1/4 | 34,423 | 1/4 | 19,404 | 1/4 | 4,385 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,153 | 1/2 | 64,133 | 1/2 | 49,112 | 1/2 | 34,110 | 1/2 | 19,091 | 1/2 | 4,073 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,840 | 3/4 | 63,820 | 3/4 | 48,800 | 3/4 | 33,798 | 3/4 | 18,778 | 3/4 | 3,761 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 78,527 | 3 | 63,507 | 3 | 48,487 | 3 | 33,485 | 3 | 18,465 | 3 | 3,449 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 78,214 | 1/4 | 63,194 | 1/4 | 48,174 | 1/4 | 33,172 | 1/4 | 18,152 | 1/4 | 3,138 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,901 | 1/2 | 62,881 | 1/2 | 47,861 | 1/2 | 32,859 | 1/2 | 17,839 | 1/2 | 2,845 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,588 | 3/4 | 62,568 | 3/4 | 47,548 | 3/4 | 32,546 | 3/4 | 17,526 | 3/4 | 2,552 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 77,275 | 4 | 62,255 | 4 | 47,235 | 4 | 32,233 | 4 | 17,213 | 4 | 2,260 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 76,962 | 1/4 | 61,942 | 1/4 | 46,923 | 1/4 | 31,920 | 1/4 | 16,900 | 1/4 | 1,967 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,649 | 1/2 | 61,629 | 1/2 | 46,610 | 1/2 | 31,607 | 1/2 | 16,588 | 1/2 | 1,733 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,336 | 3/4 | 61,316 | 3/4 | 46,297 | 3/4 | 31,294 | 3/4 | 16,275 | 3/4 | 1,498 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 76,023 | 5 | 61,003 | 5 | 45,985 | 5 | 30,981 | 5 | 15,962 | 5 | 1,263 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 75,710 | 1/4 | 60,690 | 1/4 | 45,672 | 1/4 | 30,668 | 1/4 | 15,649 | 1/4 | 1,029 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,398 | 1/2 | 60,378 | 1/2 | 45,359 | 1/2 | 30,356 | 1/2 | 15,336 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,085 | 3/4 | 60,065 | 3/4 | 45,047 | 3/4 | 30,043 | 3/4 | 15,023 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 74,772 | 6 | 59,752 | 6 | 44,734 | 6 | 29,730 | 6 | 14,710 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 74,459 | 1/4 | 59,439 | 1/4 | 44,422 | 1/4 | 29,417 | 1/4 | 14,397 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,146 | 1/2 | 59,126 | 1/2 | 44,109 | 1/2 | 29,104 | 1/2 | 14,084 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,833 | 3/4 | 58,813 | 3/4 | 43,797 | 3/4 | 28,791 | 3/4 | 13,771 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 73,520 | 7 | 58,500 | 7 | 43,485 | 7 | 28,478 | 7 | 13,458 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 73,207 | 1/4 | 58,187 | 1/4 | 43,172 | 1/4 | 28,165 | 1/4 | 13,146 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,894 | 1/2 | 57,874 | 1/2 | 42,860 | 1/2 | 27,852 | 1/2 | 12,833 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,581 | 3/4 | 57,561 | 3/4 | 42,547 | 3/4 | 27,539 | 3/4 | 12,520 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 72,268 | 8 | 57,248 | 8 | 42,235 | 8 | 27,226 | 8 | 12,207 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 71,955 | 1/4 | 56,935 | 1/4 | 41,922 | 1/4 | 26,914 | 1/4 | 11,894 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,643 | 1/2 | 56,623 | 1/2 | 41,610 | 1/2 | 26,601 | 1/2 | 11,581 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,330 | 3/4 | 56,310 | 3/4 | 41,298 | 3/4 | 26,288 | 3/4 | 11,268 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 71,017 | 9 | 55,997 | 9 | 40,985 | 9 | 25,975 | 9 | 10,955 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 70,704 | 1/4 | 55,684 | 1/4 | 40,673 | 1/4 | 25,662 | 1/4 | 10,642 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,391 | 1/2 | 55,371 | 1/2 | 40,360 | 1/2 | 25,349 | 1/2 | 10,329 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,078 | 3/4 | 55,058 | 3/4 | 40,048 | 3/4 | 25,036 | 3/4 | 10,017 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 69,765 | 10 | 54,745 | 10 | 39,735 | 10 | 24,723 | 10 | 9,704 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 69,452 | 1/4 | 54,432 | 1/4 | 39,423 | 1/4 | 24,410 | 1/4 | 9,391 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 69,139 | 1/2 | 54,119 | 1/2 | 39,111 | 1/2 | 24,097 | 1/2 | 9,078 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 68,826 | 3/4 | 53,806 | 3/4 | 38,798 | 3/4 | 23,784 | 3/4 | 8,765 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 68,513 | 11 | 53,493 | 11 | 38,486 | 11 | 23,472 | 11 | 8,452 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 68,200 | 1/4 | 53,180 | 1/4 | 38,173 | 1/4 | 23,159 | 1/4 | 8,139 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 67,888 | 1/2 | 52,867 | 1/2 | 37,861 | 1/2 | 22,846 | 1/2 | 7,826 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 67,575 | 3/4 | 52,555 | 3/4 | 37,549 | 3/4 | 22,533 | 3/4 | 7,513 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

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



BARGE "HSM 3004"

PORT SLOP TANK

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

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

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

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3004"

STBD SLOP TANK

ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

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

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

STRAPPED: 11/21/2016 SW
CALCULATED: 11/22/2016 CL
PRINTED: 11/25/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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