



BARGE "NGL 3023"

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 | - 00-0/8 | 00-0/8 | - 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 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 |
| 2 STBD | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 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 | 00-0/8 | - 00-0/8 | 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 | 00-0/8 | - 00-0/8 | 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 2 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

May 13, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "NGL 3023"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | |
|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | |
| 0 | 0 | 0 | 0 | 203,812 | 0 | 188,854 | 0 | 173,831 | 0 | 158,775 | 0 | 143,720 | 0 | 128,664 | 0 | 113,608 | 0 | 98,547 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 203,501 | 1/4 | 188,541 | 1/4 | 173,518 | 1/4 | 158,462 | 1/4 | 143,406 | 1/4 | 128,350 | 1/4 | 113,294 | 1/4 | 98,233 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 203,191 | 1/2 | 188,228 | 1/2 | 173,204 | 1/2 | 158,148 | 1/2 | 143,092 | 1/2 | 128,036 | 1/2 | 112,980 | 1/2 | 97,919 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 202,880 | 3/4 | 187,916 | 3/4 | 172,890 | 3/4 | 157,834 | 3/4 | 142,779 | 3/4 | 127,733 | 3/4 | 112,667 | 3/4 | 97,606 | | |
| 1 | 1 | 1 | 1 | 202,570 | 1 | 187,603 | 1 | 172,577 | 1 | 157,521 | 1 | 142,465 | 1 | 127,409 | 1 | 112,353 | 1 | 97,292 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 202,259 | 1/4 | 187,290 | 1/4 | 172,263 | 1/4 | 157,207 | 1/4 | 142,151 | 1/4 | 127,095 | 1/4 | 112,039 | 1/4 | 96,978 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 201,949 | 1/2 | 186,977 | 1/2 | 171,949 | 1/2 | 156,893 | 1/2 | 141,838 | 1/2 | 126,782 | 1/2 | 111,726 | 1/2 | 96,664 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 201,638 | 3/4 | 186,665 | 3/4 | 171,636 | 3/4 | 156,580 | 3/4 | 141,524 | 3/4 | 126,468 | 3/4 | 111,412 | 3/4 | 96,350 | | |
| 2 | 2 | 2 | 2 | 201,328 | 2 | 186,352 | 2 | 171,322 | 2 | 156,266 | 2 | 141,210 | 2 | 126,154 | 2 | 111,099 | 2 | 96,037 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 201,017 | 1/4 | 186,039 | 1/4 | 171,008 | 1/4 | 155,952 | 1/4 | 140,897 | 1/4 | 125,841 | 1/4 | 110,785 | 1/4 | 95,723 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 200,706 | 1/2 | 185,726 | 1/2 | 170,695 | 1/2 | 155,639 | 1/2 | 140,583 | 1/2 | 125,527 | 1/2 | 110,471 | 1/2 | 95,409 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 200,396 | 3/4 | 185,414 | 3/4 | 170,381 | 3/4 | 155,325 | 3/4 | 140,269 | 3/4 | 125,213 | 3/4 | 110,158 | 3/4 | 95,095 | | |
| 3 | 3 | 3 | 3 | 200,085 | 3 | 185,101 | 3 | 170,067 | 3 | 155,011 | 3 | 139,956 | 3 | 124,900 | 3 | 109,844 | 3 | 94,781 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 199,775 | 1/4 | 184,788 | 1/4 | 169,754 | 1/4 | 154,698 | 1/4 | 139,642 | 1/4 | 124,586 | 1/4 | 109,530 | 1/4 | 94,467 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 199,464 | 1/2 | 184,475 | 1/2 | 169,440 | 1/2 | 154,384 | 1/2 | 139,328 | 1/2 | 124,272 | 1/2 | 109,217 | 1/2 | 94,154 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 199,154 | 3/4 | 184,163 | 3/4 | 169,126 | 3/4 | 154,070 | 3/4 | 139,015 | 3/4 | 123,959 | 3/4 | 108,903 | 3/4 | 93,840 | | |
| 4 | 4 | 4 | 4 | 198,843 | 4 | 183,850 | 4 | 168,813 | 4 | 153,757 | 4 | 138,701 | 4 | 123,645 | 4 | 108,589 | 4 | 93,526 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 198,533 | 1/4 | 183,537 | 1/4 | 168,499 | 1/4 | 153,443 | 1/4 | 138,387 | 1/4 | 123,331 | 1/4 | 108,275 | 1/4 | 93,212 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 198,222 | 1/2 | 183,224 | 1/2 | 168,185 | 1/2 | 153,129 | 1/2 | 138,074 | 1/2 | 123,018 | 1/2 | 107,962 | 1/2 | 92,898 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 197,911 | 3/4 | 182,912 | 3/4 | 167,872 | 3/4 | 152,816 | 3/4 | 137,760 | 3/4 | 122,704 | 3/4 | 107,648 | 3/4 | 92,585 | | |
| 5 | 5 | 5 | 5 | 197,601 | 5 | 182,599 | 5 | 167,558 | 5 | 152,502 | 5 | 137,446 | 5 | 122,390 | 5 | 107,334 | 5 | 92,271 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 197,290 | 1/4 | 182,286 | 1/4 | 167,244 | 1/4 | 152,189 | 1/4 | 137,133 | 1/4 | 122,077 | 1/4 | 107,020 | 1/4 | 91,957 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 211,243 | 1/2 | 196,980 | 1/2 | 181,973 | 1/2 | 166,931 | 1/2 | 151,875 | 1/2 | 136,819 | 1/2 | 121,763 | 1/2 | 106,706 | 1/2 | 91,643 |
| 3/4 | 3/4 | 3/4 | 3/4 | 211,028 | 3/4 | 196,668 | 3/4 | 181,661 | 3/4 | 166,617 | 3/4 | 151,561 | 3/4 | 136,505 | 3/4 | 121,449 | 3/4 | 106,393 | 3/4 | 91,329 |
| 6 | 6 | 6 | 6 | 210,812 | 6 | 196,357 | 6 | 181,348 | 6 | 166,303 | 6 | 151,248 | 6 | 136,192 | 6 | 121,136 | 6 | 106,079 | 6 | 91,016 |
| 1/4 | 1/4 | 1/4 | 1/4 | 210,597 | 1/4 | 196,046 | 1/4 | 181,035 | 1/4 | 165,990 | 1/4 | 150,934 | 1/4 | 135,878 | 1/4 | 120,822 | 1/4 | 105,765 | 1/4 | 90,702 |
| 1/2 | 1/2 | 1/2 | 1/2 | 210,381 | 1/2 | 195,734 | 1/2 | 180,722 | 1/2 | 165,676 | 1/2 | 150,620 | 1/2 | 135,564 | 1/2 | 120,508 | 1/2 | 105,451 | 1/2 | 90,388 |
| 3/4 | 3/4 | 3/4 | 3/4 | 210,121 | 3/4 | 195,422 | 3/4 | 180,410 | 3/4 | 165,362 | 3/4 | 150,307 | 3/4 | 135,251 | 3/4 | 120,195 | 3/4 | 105,137 | 3/4 | 90,074 |
| 7 | 7 | 7 | 7 | 209,861 | 7 | 195,109 | 7 | 180,097 | 7 | 165,049 | 7 | 149,993 | 7 | 134,937 | 7 | 119,881 | 7 | 104,823 | 7 | 89,760 |
| 1/4 | 1/4 | 1/4 | 1/4 | 209,601 | 1/4 | 194,796 | 1/4 | 179,784 | 1/4 | 164,735 | 1/4 | 149,679 | 1/4 | 134,623 | 1/4 | 119,567 | 1/4 | 104,510 | 1/4 | 89,446 |
| 1/2 | 1/2 | 1/2 | 1/2 | 209,340 | 1/2 | 194,483 | 1/2 | 179,471 | 1/2 | 164,421 | 1/2 | 149,366 | 1/2 | 134,310 | 1/2 | 119,254 | 1/2 | 104,196 | 1/2 | 89,133 |
| 3/4 | 3/4 | 3/4 | 3/4 | 209,044 | 3/4 | 194,171 | 3/4 | 179,159 | 3/4 | 164,108 | 3/4 | 149,052 | 3/4 | 133,996 | 3/4 | 118,940 | 3/4 | 103,882 | 3/4 | 88,819 |
| 8 | 8 | 8 | 8 | 208,748 | 8 | 193,858 | 8 | 178,846 | 8 | 163,794 | 8 | 148,738 | 8 | 133,682 | 8 | 118,626 | 8 | 103,568 | 8 | 88,505 |
| 1/4 | 1/4 | 1/4 | 1/4 | 208,452 | 1/4 | 193,545 | 1/4 | 178,533 | 1/4 | 163,480 | 1/4 | 148,425 | 1/4 | 133,369 | 1/4 | 118,313 | 1/4 | 103,254 | 1/4 | 88,191 |
| 1/2 | 1/2 | 1/2 | 1/2 | 208,156 | 1/2 | 193,232 | 1/2 | 178,220 | 1/2 | 163,167 | 1/2 | 148,111 | 1/2 | 133,055 | 1/2 | 117,999 | 1/2 | 102,941 | 1/2 | 87,877 |
| 3/4 | 3/4 | 3/4 | 3/4 | 207,846 | 3/4 | 192,920 | 3/4 | 177,907 | 3/4 | 162,853 | 3/4 | 147,797 | 3/4 | 132,741 | 3/4 | 117,685 | 3/4 | 102,627 | 3/4 | 87,564 |
| 9 | 9 | 9 | 9 | 207,537 | 9 | 192,607 | 9 | 177,594 | 9 | 162,539 | 9 | 147,484 | 9 | 132,428 | 9 | 117,372 | 9 | 102,313 | 9 | 87,250 |
| 1/4 | 1/4 | 1/4 | 1/4 | 207,227 | 1/4 | 192,294 | 1/4 | 177,281 | 1/4 | 162,226 | 1/4 | 147,170 | 1/4 | 132,114 | 1/4 | 117,058 | 1/4 | 101,999 | 1/4 | 86,936 |
| 1/2 | 1/2 | 1/2 | 1/2 | 206,917 | 1/2 | 191,981 | 1/2 | 176,968 | 1/2 | 161,912 | 1/2 | 146,856 | 1/2 | 131,800 | 1/2 | 116,744 | 1/2 | 101,685 | 1/2 | 86,622 |
| 3/4 | 3/4 | 3/4 | 3/4 | 206,607 | 3/4 | 191,669 | 3/4 | 176,654 | 3/4 | 161,598 | 3/4 | 146,543 | 3/4 | 131,487 | 3/4 | 116,431 | 3/4 | 101,371 | 3/4 | 86,308 |
| 10 | 10 | 10 | 10 | 206,296 | 10 | 191,356 | 10 | 176,341 | 10 | 161,285 | 10 | 146,229 | 10 | 131,173 | 10 | 116,117 | 10 | 101,058 | 10 | 85,994 |
| 1/4 | 1/4 | 1/4 | 1/4 | 205,986 | 1/4 | 191,043 | 1/4 | 176,027 | 1/4 | 160,971 | 1/4 | 145,915 | 1/4 | 130,859 | 1/4 | 115,803 | 1/4 | 100,744 | 1/4 | 85,681 |
| 1/2 | 1/2 | 1/2 | 1/2 | 205,676 | 1/2 | 190,730 | 1/2 | 175,713 | 1/2 | 160,657 | 1/2 | 145,602 | 1/2 | 130,546 | 1/2 | 115,490 | 1/2 | 100,430 | 1/2 | 85,367 |
| 3/4 | 3/4 | 3/4 | 3/4 | 205,365 | 3/4 | 190,418 | 3/4 | 175,400 | 3/4 | 160,344 | 3/4 | 145,288 | 3/4 | 130,232 | 3/4 | 115,176 | 3/4 | 100,116 | 3/4 | 85,053 |
| 11 | 11 | 11 | 11 | 205,054 | 11 | 190,105 | 11 | 175,086 | 11 | 160,030 | 11 | 144,974 | 11 | 129,918 | 11 | 114,862 | 11 | 99,802 | 11 | 84,739 |
| 1/4 | 1/4 | 1/4 | 1/4 | 204,744 | 1/4 | 189,792 | 1/4 | 174,772 | 1/4 | 159,716 | 1/4 | 144,661 | 1/4 | 129,605 | 1/4 | 114,549 | 1/4 | 99,489 | 1/4 | 84,425 |
| 1/2 | 1/2 | 1/2 | 1/2 | 204,433 | 1/2 | 189,479 | 1/2 | 174,459 | 1/2 | 159,403 | 1/2 | 144,347 | 1/2 | 129,291 | 1/2 | 114,235 | 1/2 | 99,175 | 1/2 | 84,112 |
| 3/4 | 3/4 | 3/4 | 3/4 | 204,123 | 3/4 | 189,167 | 3/4 | 174,145 | 3/4 | 159,089 | 3/4 | 144,033 | 3/4 | 128,977 | 3/4 | 113,921 | 3/4 | 98,861 | 3/4 | 83,798 |

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 LIP OF "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "NGL 3023"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 83,484 | 0 | 68,437 | 0 | 53,379 | 0 | 38,316 | 0 | 23,254 | 0 | 8,988 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 83,170 | 1/4 | 68,124 | 1/4 | 53,065 | 1/4 | 38,003 | 1/4 | 22,940 | 1/4 | 8,713 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 82,856 | 1/2 | 67,810 | 1/2 | 52,752 | 1/2 | 37,689 | 1/2 | 22,626 | 1/2 | 8,437 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 82,542 | 3/4 | 67,497 | 3/4 | 52,438 | 3/4 | 37,375 | 3/4 | 22,313 | 3/4 | 8,165 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 82,229 | 1 | 67,184 | 1 | 52,124 | 1 | 37,061 | 1 | 21,999 | 1 | 7,893 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 81,915 | 1/4 | 66,871 | 1/4 | 51,810 | 1/4 | 36,747 | 1/4 | 21,686 | 1/4 | 7,621 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 81,601 | 1/2 | 66,557 | 1/2 | 51,496 | 1/2 | 36,434 | 1/2 | 21,372 | 1/2 | 7,349 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 81,287 | 3/4 | 66,244 | 3/4 | 51,183 | 3/4 | 36,120 | 3/4 | 21,060 | 3/4 | 7,081 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 80,973 | 2 | 65,930 | 2 | 50,869 | 2 | 35,806 | 2 | 20,749 | 2 | 6,812 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 80,660 | 1/4 | 65,617 | 1/4 | 50,555 | 1/4 | 35,492 | 1/4 | 20,437 | 1/4 | 6,544 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 80,346 | 1/2 | 65,304 | 1/2 | 50,241 | 1/2 | 35,178 | 1/2 | 20,125 | 1/2 | 6,276 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 80,032 | 3/4 | 64,990 | 3/4 | 49,927 | 3/4 | 34,865 | 3/4 | 19,816 | 3/4 | 6,011 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 79,718 | 3 | 64,676 | 3 | 49,614 | 3 | 34,551 | 3 | 19,507 | 3 | 5,747 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 79,404 | 1/4 | 64,362 | 1/4 | 49,300 | 1/4 | 34,237 | 1/4 | 19,199 | 1/4 | 5,482 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 79,090 | 1/2 | 64,049 | 1/2 | 48,986 | 1/2 | 33,923 | 1/2 | 18,890 | 1/2 | 5,217 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 78,777 | 3/4 | 63,735 | 3/4 | 48,672 | 3/4 | 33,609 | 3/4 | 18,585 | 3/4 | 4,957 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 78,463 | 4 | 63,421 | 4 | 48,358 | 4 | 33,296 | 4 | 18,280 | 4 | 4,696 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 78,149 | 1/4 | 63,107 | 1/4 | 48,045 | 1/4 | 32,982 | 1/4 | 17,975 | 1/4 | 4,435 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 77,835 | 1/2 | 62,794 | 1/2 | 47,731 | 1/2 | 32,668 | 1/2 | 17,670 | 1/2 | 4,174 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 77,522 | 3/4 | 62,480 | 3/4 | 47,417 | 3/4 | 32,354 | 3/4 | 17,368 | 3/4 | 3,917 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 77,208 | 5 | 62,166 | 5 | 47,103 | 5 | 32,040 | 5 | 17,067 | 5 | 3,660 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 76,895 | 1/4 | 61,852 | 1/4 | 46,789 | 1/4 | 31,727 | 1/4 | 16,765 | 1/4 | 3,403 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 76,581 | 1/2 | 61,538 | 1/2 | 46,475 | 1/2 | 31,413 | 1/2 | 16,464 | 1/2 | 3,146 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 76,268 | 3/4 | 61,224 | 3/4 | 46,162 | 3/4 | 31,099 | 3/4 | 16,166 | 3/4 | 2,893 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 75,955 | 6 | 60,911 | 6 | 45,848 | 6 | 30,785 | 6 | 15,869 | 6 | 2,640 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 75,641 | 1/4 | 60,597 | 1/4 | 45,534 | 1/4 | 30,471 | 1/4 | 15,571 | 1/4 | 2,388 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 75,328 | 1/2 | 60,283 | 1/2 | 45,220 | 1/2 | 30,157 | 1/2 | 15,273 | 1/2 | 2,135 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 75,015 | 3/4 | 59,969 | 3/4 | 44,906 | 3/4 | 29,844 | 3/4 | 14,979 | 3/4 | 1,906 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 74,702 | 7 | 59,655 | 7 | 44,593 | 7 | 29,530 | 7 | 14,685 | 7 | 1,676 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 74,388 | 1/4 | 59,342 | 1/4 | 44,279 | 1/4 | 29,216 | 1/4 | 14,391 | 1/4 | 1,447 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 74,075 | 1/2 | 59,028 | 1/2 | 43,965 | 1/2 | 28,902 | 1/2 | 14,097 | 1/2 | 1,218 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 73,762 | 3/4 | 58,714 | 3/4 | 43,651 | 3/4 | 28,588 | 3/4 | 13,807 | 3/4 | 1,050 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 73,449 | 8 | 58,400 | 8 | 43,337 | 8 | 28,275 | 8 | 13,516 | 8 | 881 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 73,135 | 1/4 | 58,086 | 1/4 | 43,024 | 1/4 | 27,961 | 1/4 | 13,226 | 1/4 | 713 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 72,822 | 1/2 | 57,773 | 1/2 | 42,710 | 1/2 | 27,647 | 1/2 | 12,936 | 1/2 | 545 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 72,509 | 3/4 | 57,459 | 3/4 | 42,396 | 3/4 | 27,333 | 3/4 | 12,649 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 72,196 | 9 | 57,145 | 9 | 42,082 | 9 | 27,019 | 9 | 12,362 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 71,883 | 1/4 | 56,831 | 1/4 | 41,768 | 1/4 | 26,706 | 1/4 | 12,075 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 71,569 | 1/2 | 56,517 | 1/2 | 41,455 | 1/2 | 26,392 | 1/2 | 11,789 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 71,256 | 3/4 | 56,204 | 3/4 | 41,141 | 3/4 | 26,078 | 3/4 | 11,506 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 70,943 | 10 | 55,890 | 10 | 40,827 | 10 | 25,764 | 10 | 11,223 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 70,630 | 1/4 | 55,576 | 1/4 | 40,513 | 1/4 | 25,450 | 1/4 | 10,940 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 70,316 | 1/2 | 55,262 | 1/2 | 40,199 | 1/2 | 25,137 | 1/2 | 10,657 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 70,003 | 3/4 | 54,948 | 3/4 | 39,886 | 3/4 | 24,823 | 3/4 | 10,377 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 69,690 | 11 | 54,635 | 11 | 39,572 | 11 | 24,509 | 11 | 10,098 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 69,377 | 1/4 | 54,321 | 1/4 | 39,258 | 1/4 | 24,195 | 1/4 | 9,819 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 69,063 | 1/2 | 54,007 | 1/2 | 38,944 | 1/2 | 23,881 | 1/2 | 9,540 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 68,750 | 3/4 | 53,693 | 3/4 | 38,630 | 3/4 | 23,568 | 3/4 | 9,264 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|----|
| IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN | IN |
| 0 | 0 | 0 | 0 | 203,527 | 0 | 188,583 | 0 | 173,576 | 0 | 158,535 | 0 | 143,495 | 0 | 128,454 | 0 | 113,413 | 0 | 98,368 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 203,216 | 1/4 | 188,271 | 1/4 | 173,263 | 1/4 | 158,222 | 1/4 | 143,181 | 1/4 | 128,141 | 1/4 | 113,100 | 1/4 | 98,054 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 202,906 | 1/2 | 187,959 | 1/2 | 172,949 | 1/2 | 157,909 | 1/2 | 142,868 | 1/2 | 127,827 | 1/2 | 112,787 | 1/2 | 97,741 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 202,596 | 3/4 | 187,646 | 3/4 | 172,636 | 3/4 | 157,595 | 3/4 | 142,555 | 3/4 | 127,514 | 3/4 | 112,473 | 3/4 | 97,427 | |
| 1 | 1 | 1 | 1 | 202,286 | 1 | 187,334 | 1 | 172,323 | 1 | 157,282 | 1 | 142,241 | 1 | 127,201 | 1 | 112,160 | 1 | 97,114 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 201,975 | 1/4 | 187,021 | 1/4 | 172,009 | 1/4 | 156,969 | 1/4 | 141,928 | 1/4 | 126,887 | 1/4 | 111,847 | 1/4 | 96,800 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 201,665 | 1/2 | 186,709 | 1/2 | 171,696 | 1/2 | 156,655 | 1/2 | 141,615 | 1/2 | 126,574 | 1/2 | 111,533 | 1/2 | 96,487 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 201,355 | 3/4 | 186,396 | 3/4 | 171,383 | 3/4 | 156,342 | 3/4 | 141,301 | 3/4 | 126,261 | 3/4 | 111,220 | 3/4 | 96,173 | |
| 2 | 2 | 2 | 2 | 201,045 | 2 | 186,084 | 2 | 171,069 | 2 | 156,029 | 2 | 140,988 | 2 | 125,947 | 2 | 110,907 | 2 | 95,860 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 200,734 | 1/4 | 185,771 | 1/4 | 170,756 | 1/4 | 155,715 | 1/4 | 140,675 | 1/4 | 125,634 | 1/4 | 110,593 | 1/4 | 95,546 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 200,424 | 1/2 | 185,459 | 1/2 | 170,443 | 1/2 | 155,402 | 1/2 | 140,361 | 1/2 | 125,321 | 1/2 | 110,280 | 1/2 | 95,233 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 200,114 | 3/4 | 185,147 | 3/4 | 170,129 | 3/4 | 155,089 | 3/4 | 140,048 | 3/4 | 125,007 | 3/4 | 109,967 | 3/4 | 94,919 | |
| 3 | 3 | 3 | 3 | 199,804 | 3 | 184,834 | 3 | 169,816 | 3 | 154,775 | 3 | 139,735 | 3 | 124,694 | 3 | 109,653 | 3 | 94,606 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 199,493 | 1/4 | 184,522 | 1/4 | 169,503 | 1/4 | 154,462 | 1/4 | 139,421 | 1/4 | 124,380 | 1/4 | 109,340 | 1/4 | 94,292 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 199,183 | 1/2 | 184,209 | 1/2 | 169,189 | 1/2 | 154,149 | 1/2 | 139,108 | 1/2 | 124,067 | 1/2 | 109,026 | 1/2 | 93,979 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 198,873 | 3/4 | 183,897 | 3/4 | 168,876 | 3/4 | 153,835 | 3/4 | 138,794 | 3/4 | 123,754 | 3/4 | 108,713 | 3/4 | 93,665 | |
| 4 | 4 | 4 | 4 | 198,563 | 4 | 183,584 | 4 | 168,563 | 4 | 153,522 | 4 | 138,481 | 4 | 123,440 | 4 | 108,400 | 4 | 93,352 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 198,252 | 1/4 | 183,272 | 1/4 | 168,249 | 1/4 | 153,208 | 1/4 | 138,168 | 1/4 | 123,127 | 1/4 | 108,086 | 1/4 | 93,038 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 197,942 | 1/2 | 182,960 | 1/2 | 167,936 | 1/2 | 152,895 | 1/2 | 137,854 | 1/2 | 122,814 | 1/2 | 107,773 | 1/2 | 92,725 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 197,632 | 3/4 | 182,647 | 3/4 | 167,622 | 3/4 | 152,582 | 3/4 | 137,541 | 3/4 | 122,500 | 3/4 | 107,459 | 3/4 | 92,411 | |
| 5 | 5 | 5 | 5 | 197,322 | 5 | 182,335 | 5 | 167,309 | 5 | 152,268 | 5 | 137,228 | 5 | 122,187 | 5 | 107,146 | 5 | 92,098 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 197,011 | 1/4 | 182,022 | 1/4 | 166,996 | 1/4 | 151,955 | 1/4 | 136,914 | 1/4 | 121,874 | 1/4 | 106,832 | 1/4 | 91,784 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 210,950 | 1/2 | 196,701 | 1/2 | 181,710 | 1/2 | 166,682 | 1/2 | 151,642 | 1/2 | 136,601 | 1/2 | 121,560 | 1/2 | 106,519 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 210,735 | 3/4 | 196,390 | 3/4 | 181,397 | 3/4 | 166,369 | 3/4 | 151,328 | 3/4 | 136,288 | 3/4 | 121,247 | 3/4 | 106,205 | |
| 6 | 6 | 6 | 6 | 210,520 | 6 | 196,079 | 6 | 181,085 | 6 | 166,056 | 6 | 151,015 | 6 | 135,974 | 6 | 120,934 | 6 | 105,892 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 210,304 | 1/4 | 195,768 | 1/4 | 180,773 | 1/4 | 165,742 | 1/4 | 150,702 | 1/4 | 135,661 | 1/4 | 120,620 | 1/4 | 105,578 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 210,089 | 1/2 | 195,457 | 1/2 | 180,460 | 1/2 | 165,429 | 1/2 | 150,388 | 1/2 | 135,348 | 1/2 | 120,307 | 1/2 | 105,265 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 209,829 | 3/4 | 195,144 | 3/4 | 180,148 | 3/4 | 165,116 | 3/4 | 150,075 | 3/4 | 135,034 | 3/4 | 119,994 | 3/4 | 104,951 | |
| 7 | 7 | 7 | 7 | 209,569 | 7 | 194,832 | 7 | 179,835 | 7 | 164,802 | 7 | 149,762 | 7 | 134,721 | 7 | 119,680 | 7 | 104,638 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 209,309 | 1/4 | 194,520 | 1/4 | 179,523 | 1/4 | 164,489 | 1/4 | 149,448 | 1/4 | 134,408 | 1/4 | 119,367 | 1/4 | 104,324 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 209,049 | 1/2 | 194,207 | 1/2 | 179,210 | 1/2 | 164,176 | 1/2 | 149,135 | 1/2 | 134,094 | 1/2 | 119,054 | 1/2 | 104,011 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 208,753 | 3/4 | 193,895 | 3/4 | 178,898 | 3/4 | 163,862 | 3/4 | 148,822 | 3/4 | 133,781 | 3/4 | 118,740 | 3/4 | 103,697 | |
| 8 | 8 | 8 | 8 | 208,458 | 8 | 193,582 | 8 | 178,586 | 8 | 163,549 | 8 | 148,508 | 8 | 133,468 | 8 | 118,427 | 8 | 103,384 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 208,162 | 1/4 | 193,270 | 1/4 | 178,273 | 1/4 | 163,236 | 1/4 | 148,195 | 1/4 | 133,154 | 1/4 | 118,114 | 1/4 | 103,070 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 207,866 | 1/2 | 192,957 | 1/2 | 177,961 | 1/2 | 162,922 | 1/2 | 147,882 | 1/2 | 132,841 | 1/2 | 117,800 | 1/2 | 102,757 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 207,557 | 3/4 | 192,645 | 3/4 | 177,648 | 3/4 | 162,609 | 3/4 | 147,568 | 3/4 | 132,528 | 3/4 | 117,487 | 3/4 | 102,443 | |
| 9 | 9 | 9 | 9 | 207,247 | 9 | 192,333 | 9 | 177,335 | 9 | 162,296 | 9 | 147,255 | 9 | 132,214 | 9 | 117,174 | 9 | 102,130 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 206,938 | 1/4 | 192,020 | 1/4 | 177,022 | 1/4 | 161,982 | 1/4 | 146,942 | 1/4 | 131,901 | 1/4 | 116,860 | 1/4 | 101,816 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 206,629 | 1/2 | 191,708 | 1/2 | 176,710 | 1/2 | 161,669 | 1/2 | 146,628 | 1/2 | 131,587 | 1/2 | 116,547 | 1/2 | 101,503 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 206,319 | 3/4 | 191,395 | 3/4 | 176,396 | 3/4 | 161,356 | 3/4 | 146,315 | 3/4 | 131,274 | 3/4 | 116,233 | 3/4 | 101,189 | |
| 10 | 10 | 10 | 10 | 206,008 | 10 | 191,083 | 10 | 176,083 | 10 | 161,042 | 10 | 146,001 | 10 | 130,961 | 10 | 115,920 | 10 | 100,876 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 205,698 | 1/4 | 190,770 | 1/4 | 175,770 | 1/4 | 160,729 | 1/4 | 145,688 | 1/4 | 130,647 | 1/4 | 115,607 | 1/4 | 100,562 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 205,388 | 1/2 | 190,458 | 1/2 | 175,456 | 1/2 | 160,415 | 1/2 | 145,375 | 1/2 | 130,334 | 1/2 | 115,293 | 1/2 | 100,249 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 205,078 | 3/4 | 190,146 | 3/4 | 175,143 | 3/4 | 160,102 | 3/4 | 145,061 | 3/4 | 130,021 | 3/4 | 114,980 | 3/4 | 99,935 | |
| 11 | 11 | 11 | 11 | 204,768 | 11 | 189,833 | 11 | 174,829 | 11 | 159,789 | 11 | 144,748 | 11 | 129,707 | 11 | 114,667 | 11 | 99,622 | |
| 1/4 | 1/4 | 1/4 | 1/4 | 204,457 | 1/4 | 189,521 | 1/4 | 174,516 | 1/4 | 159,475 | 1/4 | 144,435 | 1/4 | 129,394 | 1/4 | 114,353 | 1/4 | 99,308 | |
| 1/2 | 1/2 | 1/2 | 1/2 | 204,147 | 1/2 | 189,208 | 1/2 | 174,203 | 1/2 | 159,162 | 1/2 | 144,121 | 1/2 | 129,081 | 1/2 | 114,040 | 1/2 | 98,995 | |
| 3/4 | 3/4 | 3/4 | 3/4 | 203,837 | 3/4 | 188,896 | 3/4 | 173,889 | 3/4 | 158,849 | 3/4 | 143,808 | 3/4 | 128,767 | 3/4 | 113,727 | 3/4 | 98,681 | |

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 LIP OF "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092

Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "NGL 3023"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 83,320 | 0 | 68,343 | 0 | 53,325 | 0 | 38,278 | 0 | 23,230 | 0 | 8,979 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 83,006 | 1/4 | 68,032 | 1/4 | 53,012 | 1/4 | 37,964 | 1/4 | 22,916 | 1/4 | 8,704 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 82,693 | 1/2 | 67,720 | 1/2 | 52,698 | 1/2 | 37,651 | 1/2 | 22,603 | 1/2 | 8,428 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 82,379 | 3/4 | 67,409 | 3/4 | 52,385 | 3/4 | 37,337 | 3/4 | 22,290 | 3/4 | 8,156 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 82,066 | 1 | 67,098 | 1 | 52,071 | 1 | 37,024 | 1 | 21,977 | 1 | 7,885 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 81,752 | 1/4 | 66,787 | 1/4 | 51,758 | 1/4 | 36,710 | 1/4 | 21,664 | 1/4 | 7,613 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 81,439 | 1/2 | 66,476 | 1/2 | 51,444 | 1/2 | 36,397 | 1/2 | 21,350 | 1/2 | 7,341 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 81,125 | 3/4 | 66,164 | 3/4 | 51,131 | 3/4 | 36,083 | 3/4 | 21,039 | 3/4 | 7,073 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 80,812 | 2 | 65,852 | 2 | 50,817 | 2 | 35,770 | 2 | 20,727 | 2 | 6,805 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 80,498 | 1/4 | 65,541 | 1/4 | 50,504 | 1/4 | 35,456 | 1/4 | 20,416 | 1/4 | 6,537 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 80,185 | 1/2 | 65,229 | 1/2 | 50,190 | 1/2 | 35,143 | 1/2 | 20,104 | 1/2 | 6,269 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 79,871 | 3/4 | 64,917 | 3/4 | 49,877 | 3/4 | 34,829 | 3/4 | 19,796 | 3/4 | 6,005 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 79,558 | 3 | 64,604 | 3 | 49,563 | 3 | 34,516 | 3 | 19,487 | 3 | 5,741 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 79,244 | 1/4 | 64,292 | 1/4 | 49,250 | 1/4 | 34,202 | 1/4 | 19,179 | 1/4 | 5,476 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 78,931 | 1/2 | 63,979 | 1/2 | 48,936 | 1/2 | 33,889 | 1/2 | 18,870 | 1/2 | 5,212 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 78,618 | 3/4 | 63,667 | 3/4 | 48,623 | 3/4 | 33,575 | 3/4 | 18,566 | 3/4 | 4,951 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 78,305 | 4 | 63,354 | 4 | 48,309 | 4 | 33,262 | 4 | 18,261 | 4 | 4,691 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 77,992 | 1/4 | 63,041 | 1/4 | 47,996 | 1/4 | 32,948 | 1/4 | 17,956 | 1/4 | 4,430 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 77,679 | 1/2 | 62,729 | 1/2 | 47,682 | 1/2 | 32,635 | 1/2 | 17,651 | 1/2 | 4,169 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 77,367 | 3/4 | 62,415 | 3/4 | 47,369 | 3/4 | 32,321 | 3/4 | 17,350 | 3/4 | 3,913 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 77,056 | 5 | 62,102 | 5 | 47,055 | 5 | 32,008 | 5 | 17,049 | 5 | 3,656 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 76,744 | 1/4 | 61,789 | 1/4 | 46,742 | 1/4 | 31,694 | 1/4 | 16,748 | 1/4 | 3,399 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 76,432 | 1/2 | 61,476 | 1/2 | 46,428 | 1/2 | 31,381 | 1/2 | 16,447 | 1/2 | 3,142 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 76,121 | 3/4 | 61,162 | 3/4 | 46,115 | 3/4 | 31,067 | 3/4 | 16,150 | 3/4 | 2,890 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 75,810 | 6 | 60,849 | 6 | 45,801 | 6 | 30,754 | 6 | 15,852 | 6 | 2,637 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 75,499 | 1/4 | 60,535 | 1/4 | 45,488 | 1/4 | 30,440 | 1/4 | 15,555 | 1/4 | 2,385 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 75,187 | 1/2 | 60,222 | 1/2 | 45,174 | 1/2 | 30,127 | 1/2 | 15,257 | 1/2 | 2,132 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 74,876 | 3/4 | 59,908 | 3/4 | 44,861 | 3/4 | 29,813 | 3/4 | 14,964 | 3/4 | 1,903 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 74,565 | 7 | 59,595 | 7 | 44,547 | 7 | 29,500 | 7 | 14,670 | 7 | 1,674 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 74,254 | 1/4 | 59,281 | 1/4 | 44,234 | 1/4 | 29,186 | 1/4 | 14,376 | 1/4 | 1,445 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 73,943 | 1/2 | 58,968 | 1/2 | 43,920 | 1/2 | 28,873 | 1/2 | 14,082 | 1/2 | 1,216 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 73,632 | 3/4 | 58,655 | 3/4 | 43,607 | 3/4 | 28,559 | 3/4 | 13,792 | 3/4 | 1,048 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 73,321 | 8 | 58,341 | 8 | 43,293 | 8 | 28,246 | 8 | 13,502 | 8 | 880 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 73,009 | 1/4 | 58,028 | 1/4 | 42,980 | 1/4 | 27,932 | 1/4 | 13,212 | 1/4 | 712 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 72,698 | 1/2 | 57,714 | 1/2 | 42,666 | 1/2 | 27,619 | 1/2 | 12,922 | 1/2 | 544 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 72,387 | 3/4 | 57,401 | 3/4 | 42,353 | 3/4 | 27,305 | 3/4 | 12,636 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 72,076 | 9 | 57,087 | 9 | 42,039 | 9 | 26,992 | 9 | 12,349 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 71,765 | 1/4 | 56,774 | 1/4 | 41,726 | 1/4 | 26,678 | 1/4 | 12,063 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 71,454 | 1/2 | 56,460 | 1/2 | 41,412 | 1/2 | 26,365 | 1/2 | 11,777 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 71,143 | 3/4 | 56,147 | 3/4 | 41,099 | 3/4 | 26,051 | 3/4 | 11,494 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 70,832 | 10 | 55,833 | 10 | 40,785 | 10 | 25,738 | 10 | 11,211 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 70,521 | 1/4 | 55,520 | 1/4 | 40,472 | 1/4 | 25,424 | 1/4 | 10,928 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 70,209 | 1/2 | 55,206 | 1/2 | 40,159 | 1/2 | 25,111 | 1/2 | 10,646 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 69,898 | 3/4 | 54,893 | 3/4 | 39,845 | 3/4 | 24,797 | 3/4 | 10,367 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 69,587 | 11 | 54,579 | 11 | 39,532 | 11 | 24,484 | 11 | 10,088 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 69,276 | 1/4 | 54,266 | 1/4 | 39,218 | 1/4 | 24,170 | 1/4 | 9,809 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 68,965 | 1/2 | 53,952 | 1/2 | 38,905 | 1/2 | 23,857 | 1/2 | 9,530 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 68,654 | 3/4 | 53,639 | 3/4 | 38,591 | 3/4 | 23,543 | 3/4 | 9,254 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 206,374 | 0 | 191,398 | 0 | 176,358 | 0 | 161,286 | 0 | 146,215 | 0 | 131,143 | 0 | 116,071 | 0 | 100,994 |
| 1/4 | | 1/4 | | 1/4 | 206,063 | 1/4 | 191,084 | 1/4 | 176,044 | 1/4 | 160,972 | 1/4 | 145,901 | 1/4 | 130,829 | 1/4 | 115,757 | 1/4 | 100,680 |
| 1/2 | | 1/2 | | 1/2 | 205,752 | 1/2 | 190,771 | 1/2 | 175,730 | 1/2 | 160,658 | 1/2 | 145,587 | 1/2 | 130,515 | 1/2 | 115,443 | 1/2 | 100,366 |
| 3/4 | | 3/4 | | 3/4 | 205,441 | 3/4 | 190,458 | 3/4 | 175,416 | 3/4 | 160,344 | 3/4 | 145,273 | 3/4 | 130,201 | 3/4 | 115,129 | 3/4 | 100,052 |
| 1 | | 1 | | 1 | 205,131 | 1 | 190,145 | 1 | 175,102 | 1 | 160,030 | 1 | 144,959 | 1 | 129,887 | 1 | 114,815 | 1 | 99,738 |
| 1/4 | | 1/4 | | 1/4 | 204,820 | 1/4 | 189,832 | 1/4 | 174,788 | 1/4 | 159,716 | 1/4 | 144,645 | 1/4 | 129,573 | 1/4 | 114,501 | 1/4 | 99,424 |
| 1/2 | | 1/2 | | 1/2 | 204,509 | 1/2 | 189,519 | 1/2 | 174,474 | 1/2 | 159,402 | 1/2 | 144,331 | 1/2 | 129,259 | 1/2 | 114,187 | 1/2 | 99,110 |
| 3/4 | | 3/4 | | 3/4 | 204,198 | 3/4 | 189,206 | 3/4 | 174,160 | 3/4 | 159,088 | 3/4 | 144,017 | 3/4 | 128,945 | 3/4 | 113,873 | 3/4 | 98,795 |
| 2 | | 2 | | 2 | 203,887 | 2 | 188,893 | 2 | 173,846 | 2 | 158,774 | 2 | 143,703 | 2 | 128,631 | 2 | 113,559 | 2 | 98,481 |
| 1/4 | | 1/4 | | 1/4 | 203,576 | 1/4 | 188,580 | 1/4 | 173,532 | 1/4 | 158,460 | 1/4 | 143,389 | 1/4 | 128,317 | 1/4 | 113,245 | 1/4 | 98,167 |
| 1/2 | | 1/2 | | 1/2 | 203,265 | 1/2 | 188,267 | 1/2 | 173,218 | 1/2 | 158,146 | 1/2 | 143,075 | 1/2 | 128,003 | 1/2 | 112,931 | 1/2 | 97,853 |
| 3/4 | | 3/4 | | 3/4 | 202,954 | 3/4 | 187,954 | 3/4 | 172,904 | 3/4 | 157,832 | 3/4 | 142,761 | 3/4 | 127,689 | 3/4 | 112,617 | 3/4 | 97,539 |
| 3 | | 3 | | 3 | 202,643 | 3 | 187,641 | 3 | 172,590 | 3 | 157,518 | 3 | 142,447 | 3 | 127,375 | 3 | 112,303 | 3 | 97,225 |
| 1/4 | | 1/4 | | 1/4 | 202,332 | 1/4 | 187,327 | 1/4 | 172,276 | 1/4 | 157,204 | 1/4 | 142,133 | 1/4 | 127,061 | 1/4 | 111,989 | 1/4 | 96,910 |
| 1/2 | | 1/2 | | 1/2 | 202,022 | 1/2 | 187,014 | 1/2 | 171,962 | 1/2 | 156,890 | 1/2 | 141,819 | 1/2 | 126,747 | 1/2 | 111,675 | 1/2 | 96,596 |
| 3/4 | | 3/4 | | 3/4 | 201,711 | 3/4 | 186,701 | 3/4 | 171,648 | 3/4 | 156,576 | 3/4 | 141,505 | 3/4 | 126,433 | 3/4 | 111,361 | 3/4 | 96,282 |
| 4 | | 4 | | 4 | 201,400 | 4 | 186,388 | 4 | 171,334 | 4 | 156,262 | 4 | 141,191 | 4 | 126,119 | 4 | 111,047 | 4 | 95,968 |
| 1/4 | | 1/4 | | 1/4 | 201,089 | 1/4 | 186,075 | 1/4 | 171,020 | 1/4 | 155,948 | 1/4 | 140,877 | 1/4 | 125,805 | 1/4 | 110,733 | 1/4 | 95,654 |
| 1/2 | | 1/2 | | 1/2 | 200,778 | 1/2 | 185,762 | 1/2 | 170,706 | 1/2 | 155,634 | 1/2 | 140,563 | 1/2 | 125,491 | 1/2 | 110,419 | 1/2 | 95,340 |
| 3/4 | | 3/4 | | 3/4 | 200,467 | 3/4 | 185,449 | 3/4 | 170,392 | 3/4 | 155,320 | 3/4 | 140,249 | 3/4 | 125,177 | 3/4 | 110,105 | 3/4 | 95,026 |
| 5 | | 5 | | 5 | 200,156 | 5 | 185,136 | 5 | 170,078 | 5 | 155,007 | 5 | 139,935 | 5 | 124,863 | 5 | 109,791 | 5 | 94,711 |
| 1/4 | | 1/4 | 214,124 | 1/4 | 199,845 | 1/4 | 184,823 | 1/4 | 169,764 | 1/4 | 154,693 | 1/4 | 139,621 | 1/4 | 124,549 | 1/4 | 109,476 | 1/4 | 94,397 |
| 1/2 | | 1/2 | 213,908 | 1/2 | 199,534 | 1/2 | 184,510 | 1/2 | 169,450 | 1/2 | 154,379 | 1/2 | 139,307 | 1/2 | 124,235 | 1/2 | 109,162 | 1/2 | 94,083 |
| 3/4 | | 3/4 | 213,693 | 3/4 | 199,222 | 3/4 | 184,197 | 3/4 | 169,136 | 3/4 | 154,065 | 3/4 | 138,993 | 3/4 | 123,921 | 3/4 | 108,848 | 3/4 | 93,769 |
| 6 | | 6 | 213,477 | 6 | 198,910 | 6 | 183,884 | 6 | 168,822 | 6 | 153,751 | 6 | 138,679 | 6 | 123,607 | 6 | 108,534 | 6 | 93,455 |
| 1/4 | | 1/4 | 213,261 | 1/4 | 198,598 | 1/4 | 183,570 | 1/4 | 168,508 | 1/4 | 153,437 | 1/4 | 138,365 | 1/4 | 123,293 | 1/4 | 108,220 | 1/4 | 93,141 |
| 1/2 | | 1/2 | 213,001 | 1/2 | 198,285 | 1/2 | 183,257 | 1/2 | 168,194 | 1/2 | 153,123 | 1/2 | 138,051 | 1/2 | 122,979 | 1/2 | 107,906 | 1/2 | 92,827 |
| 3/4 | | 3/4 | 212,740 | 3/4 | 197,972 | 3/4 | 182,944 | 3/4 | 167,880 | 3/4 | 152,809 | 3/4 | 137,737 | 3/4 | 122,665 | 3/4 | 107,591 | 3/4 | 92,512 |
| 7 | | 7 | 212,480 | 7 | 197,659 | 7 | 182,631 | 7 | 167,566 | 7 | 152,495 | 7 | 137,423 | 7 | 122,351 | 7 | 107,277 | 7 | 92,198 |
| 1/4 | | 1/4 | 212,219 | 1/4 | 197,346 | 1/4 | 182,318 | 1/4 | 167,252 | 1/4 | 152,181 | 1/4 | 137,109 | 1/4 | 122,037 | 1/4 | 106,963 | 1/4 | 91,884 |
| 1/2 | | 1/2 | 211,923 | 1/2 | 197,033 | 1/2 | 182,005 | 1/2 | 166,938 | 1/2 | 151,867 | 1/2 | 136,795 | 1/2 | 121,723 | 1/2 | 106,649 | 1/2 | 91,570 |
| 3/4 | | 3/4 | 211,626 | 3/4 | 196,720 | 3/4 | 181,692 | 3/4 | 166,624 | 3/4 | 151,553 | 3/4 | 136,481 | 3/4 | 121,409 | 3/4 | 106,335 | 3/4 | 91,256 |
| 8 | | 8 | 211,330 | 8 | 196,407 | 8 | 181,379 | 8 | 166,310 | 8 | 151,239 | 8 | 136,167 | 8 | 121,095 | 8 | 106,021 | 8 | 90,942 |
| 1/4 | | 1/4 | 211,034 | 1/4 | 196,094 | 1/4 | 181,066 | 1/4 | 165,996 | 1/4 | 150,925 | 1/4 | 135,853 | 1/4 | 120,781 | 1/4 | 105,707 | 1/4 | 90,628 |
| 1/2 | | 1/2 | 210,724 | 1/2 | 195,781 | 1/2 | 180,752 | 1/2 | 165,682 | 1/2 | 150,611 | 1/2 | 135,539 | 1/2 | 120,467 | 1/2 | 105,392 | 1/2 | 90,313 |
| 3/4 | | 3/4 | 210,414 | 3/4 | 195,468 | 3/4 | 180,439 | 3/4 | 165,368 | 3/4 | 150,297 | 3/4 | 135,225 | 3/4 | 120,153 | 3/4 | 105,078 | 3/4 | 89,999 |
| 9 | | 9 | 210,104 | 9 | 195,155 | 9 | 180,126 | 9 | 165,054 | 9 | 149,983 | 9 | 134,911 | 9 | 119,839 | 9 | 104,764 | 9 | 89,685 |
| 1/4 | | 1/4 | 209,794 | 1/4 | 194,841 | 1/4 | 179,812 | 1/4 | 164,740 | 1/4 | 149,669 | 1/4 | 134,597 | 1/4 | 119,525 | 1/4 | 104,450 | 1/4 | 89,371 |
| 1/2 | | 1/2 | 209,483 | 1/2 | 194,528 | 1/2 | 179,498 | 1/2 | 164,426 | 1/2 | 149,355 | 1/2 | 134,283 | 1/2 | 119,211 | 1/2 | 104,136 | 1/2 | 89,057 |
| 3/4 | | 3/4 | 209,172 | 3/4 | 194,215 | 3/4 | 179,184 | 3/4 | 164,112 | 3/4 | 149,041 | 3/4 | 133,969 | 3/4 | 118,897 | 3/4 | 103,822 | 3/4 | 88,743 |
| 10 | | 10 | 208,861 | 10 | 193,902 | 10 | 178,870 | 10 | 163,798 | 10 | 148,727 | 10 | 133,655 | 10 | 118,583 | 10 | 103,508 | 10 | 88,428 |
| 1/4 | | 1/4 | 208,551 | 1/4 | 193,589 | 1/4 | 178,556 | 1/4 | 163,484 | 1/4 | 148,413 | 1/4 | 133,341 | 1/4 | 118,269 | 1/4 | 103,193 | 1/4 | 88,114 |
| 1/2 | | 1/2 | 208,240 | 1/2 | 193,276 | 1/2 | 178,242 | 1/2 | 163,170 | 1/2 | 148,099 | 1/2 | 133,027 | 1/2 | 117,955 | 1/2 | 102,879 | 1/2 | 87,800 |
| 3/4 | | 3/4 | 207,929 | 3/4 | 192,963 | 3/4 | 177,928 | 3/4 | 162,856 | 3/4 | 147,785 | 3/4 | 132,713 | 3/4 | 117,641 | 3/4 | 102,565 | 3/4 | 87,486 |
| 11 | | 11 | 207,618 | 11 | 192,650 | 11 | 177,614 | 11 | 162,542 | 11 | 147,471 | 11 | 132,399 | 11 | 117,327 | 11 | 102,251 | 11 | 87,172 |
| 1/4 | | 1/4 | 207,307 | 1/4 | 192,337 | 1/4 | 177,300 | 1/4 | 162,228 | 1/4 | 147,157 | 1/4 | 132,085 | 1/4 | 117,013 | 1/4 | 101,937 | 1/4 | 86,858 |
| 1/2 | | 1/2 | 206,996 | 1/2 | 192,024 | 1/2 | 176,986 | 1/2 | 161,914 | 1/2 | 146,843 | 1/2 | 131,771 | 1/2 | 116,699 | 1/2 | 101,623 | 1/2 | 86,544 |
| 3/4 | | 3/4 | 206,685 | 3/4 | 191,711 | 3/4 | 176,672 | 3/4 | 161,600 | 3/4 | 146,529 | 3/4 | 131,457 | 3/4 | 116,385 | 3/4 | 101,309 | 3/4 | 86,229 |

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 LIP OF "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "NGL 3023"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 85,915 | 0 | 70,836 | 0 | 55,757 | 0 | 40,694 | 0 | 25,622 | 0 | 10,543 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 85,601 | 1/4 | 70,522 | 1/4 | 55,443 | 1/4 | 40,381 | 1/4 | 25,308 | 1/4 | 10,229 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 85,287 | 1/2 | 70,208 | 1/2 | 55,129 | 1/2 | 40,067 | 1/2 | 24,994 | 1/2 | 9,915 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 84,973 | 3/4 | 69,894 | 3/4 | 54,815 | 3/4 | 39,754 | 3/4 | 24,679 | 3/4 | 9,601 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 84,659 | 1 | 69,580 | 1 | 54,501 | 1 | 39,440 | 1 | 24,365 | 1 | 9,287 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 84,345 | 1/4 | 69,265 | 1/4 | 54,186 | 1/4 | 39,127 | 1/4 | 24,051 | 1/4 | 8,972 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 84,030 | 1/2 | 68,951 | 1/2 | 53,872 | 1/2 | 38,813 | 1/2 | 23,737 | 1/2 | 8,658 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 83,716 | 3/4 | 68,637 | 3/4 | 53,558 | 3/4 | 38,499 | 3/4 | 23,423 | 3/4 | 8,344 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 83,402 | 2 | 68,323 | 2 | 53,244 | 2 | 38,186 | 2 | 23,109 | 2 | 8,030 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 83,088 | 1/4 | 68,009 | 1/4 | 52,930 | 1/4 | 37,872 | 1/4 | 22,795 | 1/4 | 7,716 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 82,774 | 1/2 | 67,695 | 1/2 | 52,616 | 1/2 | 37,558 | 1/2 | 22,480 | 1/2 | 7,402 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 82,460 | 3/4 | 67,381 | 3/4 | 52,302 | 3/4 | 37,244 | 3/4 | 22,166 | 3/4 | 7,088 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 82,146 | 3 | 67,066 | 3 | 51,987 | 3 | 36,931 | 3 | 21,852 | 3 | 6,774 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 81,831 | 1/4 | 66,752 | 1/4 | 51,673 | 1/4 | 36,617 | 1/4 | 21,538 | 1/4 | 6,459 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 81,517 | 1/2 | 66,438 | 1/2 | 51,359 | 1/2 | 36,303 | 1/2 | 21,224 | 1/2 | 6,145 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 81,203 | 3/4 | 66,124 | 3/4 | 51,045 | 3/4 | 35,988 | 3/4 | 20,910 | 3/4 | 5,831 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 80,889 | 4 | 65,810 | 4 | 50,731 | 4 | 35,674 | 4 | 20,596 | 4 | 5,517 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 80,575 | 1/4 | 65,496 | 1/4 | 50,417 | 1/4 | 35,360 | 1/4 | 20,281 | 1/4 | 5,203 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,261 | 1/2 | 65,182 | 1/2 | 50,103 | 1/2 | 35,046 | 1/2 | 19,967 | 1/2 | 4,889 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 79,947 | 3/4 | 64,867 | 3/4 | 49,789 | 3/4 | 34,732 | 3/4 | 19,653 | 3/4 | 4,575 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 79,632 | 5 | 64,553 | 5 | 49,475 | 5 | 34,418 | 5 | 19,339 | 5 | 4,261 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 79,318 | 1/4 | 64,239 | 1/4 | 49,161 | 1/4 | 34,104 | 1/4 | 19,025 | 1/4 | 3,947 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,004 | 1/2 | 63,925 | 1/2 | 48,847 | 1/2 | 33,789 | 1/2 | 18,711 | 1/2 | 3,634 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,690 | 3/4 | 63,611 | 3/4 | 48,533 | 3/4 | 33,475 | 3/4 | 18,397 | 3/4 | 3,321 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 78,376 | 6 | 63,297 | 6 | 48,220 | 6 | 33,161 | 6 | 18,082 | 6 | 3,007 | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 78,062 | 1/4 | 62,983 | 1/4 | 47,906 | 1/4 | 32,847 | 1/4 | 17,768 | 1/4 | 2,694 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,747 | 1/2 | 62,668 | 1/2 | 47,593 | 1/2 | 32,533 | 1/2 | 17,454 | 1/2 | 2,401 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,433 | 3/4 | 62,354 | 3/4 | 47,279 | 3/4 | 32,219 | 3/4 | 17,140 | 3/4 | 2,107 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 77,119 | 7 | 62,040 | 7 | 46,965 | 7 | 31,905 | 7 | 16,826 | 7 | 1,814 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 76,805 | 1/4 | 61,726 | 1/4 | 46,652 | 1/4 | 31,590 | 1/4 | 16,512 | 1/4 | 1,520 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,491 | 1/2 | 61,412 | 1/2 | 46,338 | 1/2 | 31,276 | 1/2 | 16,198 | 1/2 | 1,298 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,177 | 3/4 | 61,098 | 3/4 | 46,025 | 3/4 | 30,962 | 3/4 | 15,884 | 3/4 | 1,075 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 75,863 | 8 | 60,783 | 8 | 45,711 | 8 | 30,648 | 8 | 15,569 | 8 | 853 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 75,548 | 1/4 | 60,469 | 1/4 | 45,398 | 1/4 | 30,334 | 1/4 | 15,255 | 1/4 | 631 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,234 | 1/2 | 60,155 | 1/2 | 45,084 | 1/2 | 30,020 | 1/2 | 14,941 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,920 | 3/4 | 59,841 | 3/4 | 44,771 | 3/4 | 29,706 | 3/4 | 14,627 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 74,606 | 9 | 59,527 | 9 | 44,457 | 9 | 29,391 | 9 | 14,313 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 74,292 | 1/4 | 59,213 | 1/4 | 44,143 | 1/4 | 29,077 | 1/4 | 13,999 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,978 | 1/2 | 58,899 | 1/2 | 43,830 | 1/2 | 28,763 | 1/2 | 13,685 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,664 | 3/4 | 58,584 | 3/4 | 43,516 | 3/4 | 28,449 | 3/4 | 13,370 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 73,349 | 10 | 58,270 | 10 | 43,203 | 10 | 28,135 | 10 | 13,056 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 73,035 | 1/4 | 57,956 | 1/4 | 42,889 | 1/4 | 27,821 | 1/4 | 12,742 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,721 | 1/2 | 57,642 | 1/2 | 42,576 | 1/2 | 27,507 | 1/2 | 12,428 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,407 | 3/4 | 57,328 | 3/4 | 42,262 | 3/4 | 27,193 | 3/4 | 12,114 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 72,093 | 11 | 57,014 | 11 | 41,949 | 11 | 26,878 | 11 | 11,800 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 71,779 | 1/4 | 56,700 | 1/4 | 41,635 | 1/4 | 26,564 | 1/4 | 11,486 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,465 | 1/2 | 56,385 | 1/2 | 41,321 | 1/2 | 26,250 | 1/2 | 11,171 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,150 | 3/4 | 56,071 | 3/4 | 41,008 | 3/4 | 25,936 | 3/4 | 10,857 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.dmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. | | |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| 0 | | 0 | | 0 | 205,547 | 0 | 190,589 | 0 | 175,568 | 0 | 160,516 | 0 | 145,463 | 0 | 130,410 | 0 | 115,357 | 0 | 100,299 | | |
| 1/4 | | 1/4 | | 1/4 | 205,236 | 1/4 | 190,276 | 1/4 | 175,255 | 1/4 | 160,202 | 1/4 | 145,149 | 1/4 | 130,096 | 1/4 | 115,043 | 1/4 | 99,985 | | |
| 1/2 | | 1/2 | | 1/2 | 204,926 | 1/2 | 189,964 | 1/2 | 174,941 | 1/2 | 159,888 | 1/2 | 144,835 | 1/2 | 129,783 | 1/2 | 114,730 | 1/2 | 99,671 | | |
| 3/4 | | 3/4 | | 3/4 | 204,615 | 3/4 | 189,651 | 3/4 | 174,628 | 3/4 | 159,575 | 3/4 | 144,522 | 3/4 | 129,469 | 3/4 | 114,416 | 3/4 | 99,358 | | |
| 1 | | 1 | | 1 | 204,305 | 1 | 189,338 | 1 | 174,314 | 1 | 159,261 | 1 | 144,208 | 1 | 129,155 | 1 | 114,102 | 1 | 99,044 | | |
| 1/4 | | 1/4 | | 1/4 | 203,994 | 1/4 | 189,026 | 1/4 | 174,000 | 1/4 | 158,948 | 1/4 | 143,895 | 1/4 | 128,842 | 1/4 | 113,789 | 1/4 | 98,730 | | |
| 1/2 | | 1/2 | | 1/2 | 203,684 | 1/2 | 188,713 | 1/2 | 173,687 | 1/2 | 158,634 | 1/2 | 143,581 | 1/2 | 128,528 | 1/2 | 113,475 | 1/2 | 98,416 | | |
| 3/4 | | 3/4 | | 3/4 | 203,373 | 3/4 | 188,400 | 3/4 | 173,373 | 3/4 | 158,320 | 3/4 | 143,267 | 3/4 | 128,215 | 3/4 | 113,162 | 3/4 | 98,103 | | |
| 2 | | 2 | | 2 | 203,063 | 2 | 188,087 | 2 | 173,060 | 2 | 158,007 | 2 | 142,954 | 2 | 127,901 | 2 | 112,848 | 2 | 97,789 | | |
| 1/4 | | 1/4 | | 1/4 | 202,752 | 1/4 | 187,775 | 1/4 | 172,746 | 1/4 | 157,693 | 1/4 | 142,640 | 1/4 | 127,587 | 1/4 | 112,534 | 1/4 | 97,475 | | |
| 1/2 | | 1/2 | | 1/2 | 202,442 | 1/2 | 187,462 | 1/2 | 172,432 | 1/2 | 157,380 | 1/2 | 142,327 | 1/2 | 127,274 | 1/2 | 112,221 | 1/2 | 97,161 | | |
| 3/4 | | 3/4 | | 3/4 | 202,131 | 3/4 | 187,149 | 3/4 | 172,119 | 3/4 | 157,066 | 3/4 | 142,013 | 3/4 | 126,960 | 3/4 | 111,907 | 3/4 | 96,848 | | |
| 3 | | 3 | | 3 | 201,821 | 3 | 186,837 | 3 | 171,805 | 3 | 156,752 | 3 | 141,699 | 3 | 126,647 | 3 | 111,594 | 3 | 96,534 | | |
| 1/4 | | 1/4 | | 1/4 | 201,510 | 1/4 | 186,524 | 1/4 | 171,492 | 1/4 | 156,439 | 1/4 | 141,386 | 1/4 | 126,333 | 1/4 | 111,280 | 1/4 | 96,220 | | |
| 1/2 | | 1/2 | | 1/2 | 201,200 | 1/2 | 186,211 | 1/2 | 171,178 | 1/2 | 156,125 | 1/2 | 141,072 | 1/2 | 126,019 | 1/2 | 110,966 | 1/2 | 95,906 | | |
| 3/4 | | 3/4 | | 3/4 | 200,889 | 3/4 | 185,899 | 3/4 | 170,864 | 3/4 | 155,812 | 3/4 | 140,759 | 3/4 | 125,706 | 3/4 | 110,653 | 3/4 | 95,593 | | |
| 4 | | 4 | | 4 | 200,579 | 4 | 185,586 | 4 | 170,551 | 4 | 155,498 | 4 | 140,445 | 4 | 125,392 | 4 | 110,339 | 4 | 95,279 | | |
| 1/4 | | 1/4 | | 1/4 | 200,268 | 1/4 | 185,273 | 1/4 | 170,237 | 1/4 | 155,184 | 1/4 | 140,131 | 1/4 | 125,079 | 1/4 | 110,025 | 1/4 | 94,965 | | |
| 1/2 | | 1/2 | | 1/2 | 199,958 | 1/2 | 184,961 | 1/2 | 169,924 | 1/2 | 154,871 | 1/2 | 139,818 | 1/2 | 124,765 | 1/2 | 109,712 | 1/2 | 94,651 | | |
| 3/4 | | 3/4 | | 3/4 | 199,647 | 3/4 | 184,648 | 3/4 | 169,610 | 3/4 | 154,557 | 3/4 | 139,504 | 3/4 | 124,451 | 3/4 | 109,398 | 3/4 | 94,338 | | |
| 5 | | 5 | | 5 | 199,337 | 5 | 184,335 | 5 | 169,296 | 5 | 154,243 | 5 | 139,191 | 5 | 124,138 | 5 | 109,084 | 5 | 94,024 | | |
| 1/4 | | 1/4 | | 1/4 | 213,287 | 1/4 | 199,026 | 1/4 | 184,022 | 1/4 | 168,983 | 1/4 | 153,930 | 1/4 | 138,877 | 1/4 | 123,824 | 1/4 | 108,770 | 1/4 | 93,710 |
| 1/2 | | 1/2 | | 1/2 | 213,072 | 1/2 | 198,715 | 1/2 | 183,710 | 1/2 | 168,669 | 1/2 | 153,616 | 1/2 | 138,563 | 1/2 | 123,510 | 1/2 | 108,457 | 1/2 | 93,396 |
| 3/4 | | 3/4 | | 3/4 | 212,856 | 3/4 | 198,404 | 3/4 | 183,397 | 3/4 | 168,356 | 3/4 | 153,303 | 3/4 | 138,250 | 3/4 | 123,197 | 3/4 | 108,143 | 3/4 | 93,083 |
| 6 | | 6 | | 6 | 212,641 | 6 | 198,092 | 6 | 183,084 | 6 | 168,042 | 6 | 152,989 | 6 | 137,936 | 6 | 122,883 | 6 | 107,829 | 6 | 92,769 |
| 1/4 | | 1/4 | | 1/4 | 212,425 | 1/4 | 197,781 | 1/4 | 182,772 | 1/4 | 167,728 | 1/4 | 152,675 | 1/4 | 137,623 | 1/4 | 122,570 | 1/4 | 107,515 | 1/4 | 92,455 |
| 1/2 | | 1/2 | | 1/2 | 212,165 | 1/2 | 197,468 | 1/2 | 182,459 | 1/2 | 167,415 | 1/2 | 152,362 | 1/2 | 137,309 | 1/2 | 122,256 | 1/2 | 107,202 | 1/2 | 92,141 |
| 3/4 | | 3/4 | | 3/4 | 211,905 | 3/4 | 197,156 | 3/4 | 182,146 | 3/4 | 167,101 | 3/4 | 152,048 | 3/4 | 136,995 | 3/4 | 121,942 | 3/4 | 106,888 | 3/4 | 91,828 |
| 7 | | 7 | | 7 | 211,645 | 7 | 196,843 | 7 | 181,834 | 7 | 166,788 | 7 | 151,735 | 7 | 136,682 | 7 | 121,629 | 7 | 106,574 | 7 | 91,514 |
| 1/4 | | 1/4 | | 1/4 | 211,385 | 1/4 | 196,530 | 1/4 | 181,521 | 1/4 | 166,474 | 1/4 | 151,421 | 1/4 | 136,368 | 1/4 | 121,315 | 1/4 | 106,260 | 1/4 | 91,200 |
| 1/2 | | 1/2 | | 1/2 | 211,089 | 1/2 | 196,217 | 1/2 | 181,208 | 1/2 | 166,160 | 1/2 | 151,107 | 1/2 | 136,055 | 1/2 | 121,002 | 1/2 | 105,947 | 1/2 | 90,886 |
| 3/4 | | 3/4 | | 3/4 | 210,792 | 3/4 | 195,905 | 3/4 | 180,896 | 3/4 | 165,847 | 3/4 | 150,794 | 3/4 | 135,741 | 3/4 | 120,688 | 3/4 | 105,633 | 3/4 | 90,573 |
| 8 | | 8 | | 8 | 210,496 | 8 | 195,592 | 8 | 180,583 | 8 | 165,533 | 8 | 150,480 | 8 | 135,427 | 8 | 120,374 | 8 | 105,319 | 8 | 90,259 |
| 1/4 | | 1/4 | | 1/4 | 210,200 | 1/4 | 195,279 | 1/4 | 180,270 | 1/4 | 165,220 | 1/4 | 150,167 | 1/4 | 135,114 | 1/4 | 120,061 | 1/4 | 105,005 | 1/4 | 89,945 |
| 1/2 | | 1/2 | | 1/2 | 209,891 | 1/2 | 194,967 | 1/2 | 179,957 | 1/2 | 164,906 | 1/2 | 149,853 | 1/2 | 134,800 | 1/2 | 119,747 | 1/2 | 104,692 | 1/2 | 89,631 |
| 3/4 | | 3/4 | | 3/4 | 209,581 | 3/4 | 194,654 | 3/4 | 179,644 | 3/4 | 164,592 | 3/4 | 149,539 | 3/4 | 134,487 | 3/4 | 119,434 | 3/4 | 104,378 | 3/4 | 89,318 |
| 9 | | 9 | | 9 | 209,272 | 9 | 194,341 | 9 | 179,331 | 9 | 164,279 | 9 | 149,226 | 9 | 134,173 | 9 | 119,120 | 9 | 104,064 | 9 | 89,004 |
| 1/4 | | 1/4 | | 1/4 | 208,962 | 1/4 | 194,029 | 1/4 | 179,018 | 1/4 | 163,965 | 1/4 | 148,912 | 1/4 | 133,859 | 1/4 | 118,806 | 1/4 | 103,750 | 1/4 | 88,690 |
| 1/2 | | 1/2 | | 1/2 | 208,652 | 1/2 | 193,716 | 1/2 | 178,704 | 1/2 | 163,652 | 1/2 | 148,599 | 1/2 | 133,546 | 1/2 | 118,493 | 1/2 | 103,437 | 1/2 | 88,376 |
| 3/4 | | 3/4 | | 3/4 | 208,341 | 3/4 | 193,403 | 3/4 | 178,391 | 3/4 | 163,338 | 3/4 | 148,285 | 3/4 | 133,232 | 3/4 | 118,179 | 3/4 | 103,123 | 3/4 | 88,063 |
| 10 | | 10 | | 10 | 208,031 | 10 | 193,091 | 10 | 178,077 | 10 | 163,024 | 10 | 147,971 | 10 | 132,919 | 10 | 117,866 | 10 | 102,809 | 10 | 87,749 |
| 1/4 | | 1/4 | | 1/4 | 207,721 | 1/4 | 192,778 | 1/4 | 177,764 | 1/4 | 162,711 | 1/4 | 147,658 | 1/4 | 132,605 | 1/4 | 117,552 | 1/4 | 102,495 | 1/4 | 87,435 |
| 1/2 | | 1/2 | | 1/2 | 207,410 | 1/2 | 192,465 | 1/2 | 177,450 | 1/2 | 162,397 | 1/2 | 147,344 | 1/2 | 132,291 | 1/2 | 117,238 | 1/2 | 102,182 | 1/2 | 87,121 |
| 3/4 | | 3/4 | | 3/4 | 207,099 | 3/4 | 192,152 | 3/4 | 177,136 | 3/4 | 162,084 | 3/4 | 147,031 | 3/4 | 131,978 | 3/4 | 116,925 | 3/4 | 101,868 | 3/4 | 86,808 |
| 11 | | 11 | | 11 | 206,789 | 11 | 191,840 | 11 | 176,823 | 11 | 161,770 | 11 | 146,717 | 11 | 131,664 | 11 | 116,611 | 11 | 101,554 | 11 | 86,494 |
| 1/4 | | 1/4 | | 1/4 | 206,478 | 1/4 | 191,527 | 1/4 | 176,509 | 1/4 | 161,456 | 1/4 | 146,403 | 1/4 | 131,351 | 1/4 | 116,298 | 1/4 | 101,240 | 1/4 | 86,180 |
| 1/2 | | 1/2 | | 1/2 | 206,168 | 1/2 | 191,214 | 1/2 | 176,196 | 1/2 | 161,143 | 1/2 | 146,090 | 1/2 | 131,037 | 1/2 | 115,984 | 1/2 | 100,927 | 1/2 | 85,866 |
| 3/4 | | 3/4 | | 3/4 | 205,857 | 3/4 | 190,902 | 3/4 | 175,882 | 3/4 | 160,829 | 3/4 | 145,776 | 3/4 | 130,723 | 3/4 | 115,670 | 3/4 | 100,613 | 3/4 | 85,553 |

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 LIP OF "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "NGL 3023"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 85,239 | 0 | 70,356 | 0 | 55,575 | 0 | 40,644 | 0 | 25,590 | 0 | 10,531 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 84,925 | 1/4 | 70,048 | 1/4 | 55,267 | 1/4 | 40,331 | 1/4 | 25,277 | 1/4 | 10,217 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 84,611 | 1/2 | 69,740 | 1/2 | 54,959 | 1/2 | 40,018 | 1/2 | 24,963 | 1/2 | 9,903 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 84,298 | 3/4 | 69,432 | 3/4 | 54,651 | 3/4 | 39,705 | 3/4 | 24,649 | 3/4 | 9,589 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 83,984 | 1 | 69,124 | 1 | 54,343 | 1 | 39,391 | 1 | 24,335 | 1 | 9,276 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 83,670 | 1/4 | 68,816 | 1/4 | 54,035 | 1/4 | 39,078 | 1/4 | 24,022 | 1/4 | 8,962 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 83,356 | 1/2 | 68,508 | 1/2 | 53,727 | 1/2 | 38,765 | 1/2 | 23,708 | 1/2 | 8,648 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 83,043 | 3/4 | 68,200 | 3/4 | 53,419 | 3/4 | 38,452 | 3/4 | 23,394 | 3/4 | 8,334 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 82,729 | 2 | 67,892 | 2 | 53,111 | 2 | 38,139 | 2 | 23,080 | 2 | 8,021 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 82,415 | 1/4 | 67,584 | 1/4 | 52,803 | 1/4 | 37,825 | 1/4 | 22,767 | 1/4 | 7,707 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 82,101 | 1/2 | 67,276 | 1/2 | 52,495 | 1/2 | 37,512 | 1/2 | 22,453 | 1/2 | 7,393 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 81,787 | 3/4 | 66,968 | 3/4 | 52,187 | 3/4 | 37,198 | 3/4 | 22,139 | 3/4 | 7,079 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 81,474 | 3 | 66,661 | 3 | 51,879 | 3 | 36,885 | 3 | 21,825 | 3 | 6,766 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 81,160 | 1/4 | 66,353 | 1/4 | 51,571 | 1/4 | 36,571 | 1/4 | 21,512 | 1/4 | 6,452 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,847 | 1/2 | 66,045 | 1/2 | 51,263 | 1/2 | 36,258 | 1/2 | 21,198 | 1/2 | 6,138 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,535 | 3/4 | 65,737 | 3/4 | 50,955 | 3/4 | 35,944 | 3/4 | 20,884 | 3/4 | 5,824 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 80,222 | 4 | 65,429 | 4 | 50,648 | 4 | 35,630 | 4 | 20,570 | 4 | 5,511 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 79,909 | 1/4 | 65,121 | 1/4 | 50,340 | 1/4 | 35,316 | 1/4 | 20,257 | 1/4 | 5,197 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,600 | 1/2 | 64,813 | 1/2 | 50,030 | 1/2 | 35,003 | 1/2 | 19,943 | 1/2 | 4,883 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 79,290 | 3/4 | 64,505 | 3/4 | 49,720 | 3/4 | 34,689 | 3/4 | 19,629 | 3/4 | 4,570 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 78,980 | 5 | 64,197 | 5 | 49,410 | 5 | 34,375 | 5 | 19,315 | 5 | 4,256 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 78,670 | 1/4 | 63,889 | 1/4 | 49,100 | 1/4 | 34,061 | 1/4 | 19,002 | 1/4 | 3,943 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 78,362 | 1/2 | 63,581 | 1/2 | 48,786 | 1/2 | 33,748 | 1/2 | 18,688 | 1/2 | 3,630 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,054 | 3/4 | 63,273 | 3/4 | 48,473 | 3/4 | 33,434 | 3/4 | 18,374 | 3/4 | 3,317 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 77,746 | 6 | 62,965 | 6 | 48,160 | 6 | 33,120 | 6 | 18,060 | 6 | 3,004 | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 77,439 | 1/4 | 62,657 | 1/4 | 47,847 | 1/4 | 32,806 | 1/4 | 17,747 | 1/4 | 2,691 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,131 | 1/2 | 62,349 | 1/2 | 47,534 | 1/2 | 32,493 | 1/2 | 17,433 | 1/2 | 2,398 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,823 | 3/4 | 62,041 | 3/4 | 47,220 | 3/4 | 32,179 | 3/4 | 17,119 | 3/4 | 2,105 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 76,515 | 7 | 61,733 | 7 | 46,907 | 7 | 31,865 | 7 | 16,805 | 7 | 1,812 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 76,207 | 1/4 | 61,426 | 1/4 | 46,594 | 1/4 | 31,552 | 1/4 | 16,492 | 1/4 | 1,519 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,899 | 1/2 | 61,118 | 1/2 | 46,281 | 1/2 | 31,238 | 1/2 | 16,178 | 1/2 | 1,296 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 75,591 | 3/4 | 60,810 | 3/4 | 45,968 | 3/4 | 30,924 | 3/4 | 15,864 | 3/4 | 1,074 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 75,283 | 8 | 60,502 | 8 | 45,655 | 8 | 30,610 | 8 | 15,550 | 8 | 852 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 74,975 | 1/4 | 60,194 | 1/4 | 45,341 | 1/4 | 30,297 | 1/4 | 15,237 | 1/4 | 630 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,667 | 1/2 | 59,886 | 1/2 | 45,028 | 1/2 | 29,983 | 1/2 | 14,923 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,359 | 3/4 | 59,578 | 3/4 | 44,715 | 3/4 | 29,669 | 3/4 | 14,609 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 74,051 | 9 | 59,270 | 9 | 44,402 | 9 | 29,355 | 9 | 14,296 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 73,743 | 1/4 | 58,962 | 1/4 | 44,089 | 1/4 | 29,042 | 1/4 | 13,982 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 73,435 | 1/2 | 58,654 | 1/2 | 43,776 | 1/2 | 28,728 | 1/2 | 13,668 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,127 | 3/4 | 58,346 | 3/4 | 43,462 | 3/4 | 28,414 | 3/4 | 13,354 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 72,819 | 10 | 58,038 | 10 | 43,149 | 10 | 28,100 | 10 | 13,041 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 72,511 | 1/4 | 57,730 | 1/4 | 42,836 | 1/4 | 27,787 | 1/4 | 12,727 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,203 | 1/2 | 57,422 | 1/2 | 42,523 | 1/2 | 27,473 | 1/2 | 12,413 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,896 | 3/4 | 57,114 | 3/4 | 42,210 | 3/4 | 27,159 | 3/4 | 12,099 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 71,588 | 11 | 56,806 | 11 | 41,897 | 11 | 26,845 | 11 | 11,786 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 71,280 | 1/4 | 56,498 | 1/4 | 41,583 | 1/4 | 26,532 | 1/4 | 11,472 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 70,972 | 1/2 | 56,190 | 1/2 | 41,270 | 1/2 | 26,218 | 1/2 | 11,158 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 70,664 | 3/4 | 55,883 | 3/4 | 40,957 | 3/4 | 25,904 | 3/4 | 10,844 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 189,874 | 0 | 179,563 | 0 | 169,208 | 0 | 158,832 | 0 | 146,023 | 0 | 131,020 | 0 | 116,009 | 0 | 100,986 |
| 1/4 | | 1/4 | | 1/4 | 189,660 | 1/4 | 179,348 | 1/4 | 168,992 | 1/4 | 158,615 | 1/4 | 145,712 | 1/4 | 130,708 | 1/4 | 115,696 | 1/4 | 100,673 |
| 1/2 | | 1/2 | | 1/2 | 189,446 | 1/2 | 179,132 | 1/2 | 168,776 | 1/2 | 158,399 | 1/2 | 145,402 | 1/2 | 130,395 | 1/2 | 115,383 | 1/2 | 100,360 |
| 3/4 | | 3/4 | | 3/4 | 189,231 | 3/4 | 178,916 | 3/4 | 168,560 | 3/4 | 158,174 | 3/4 | 145,090 | 3/4 | 130,082 | 3/4 | 115,071 | 3/4 | 100,047 |
| 1 | | 1 | | 1 | 189,017 | 1 | 178,701 | 1 | 168,344 | 1 | 157,949 | 1 | 144,778 | 1 | 129,769 | 1 | 114,758 | 1 | 99,733 |
| 1/4 | | 1/4 | | 1/4 | 188,803 | 1/4 | 178,485 | 1/4 | 168,128 | 1/4 | 157,723 | 1/4 | 144,467 | 1/4 | 129,457 | 1/4 | 114,445 | 1/4 | 99,420 |
| 1/2 | | 1/2 | | 1/2 | 188,589 | 1/2 | 178,270 | 1/2 | 167,911 | 1/2 | 157,498 | 1/2 | 144,155 | 1/2 | 129,144 | 1/2 | 114,133 | 1/2 | 99,107 |
| 3/4 | | 3/4 | | 3/4 | 188,375 | 3/4 | 178,054 | 3/4 | 167,695 | 3/4 | 157,258 | 3/4 | 143,843 | 3/4 | 128,831 | 3/4 | 113,820 | 3/4 | 98,794 |
| 2 | | 2 | | 2 | 188,161 | 2 | 177,839 | 2 | 167,479 | 2 | 157,017 | 2 | 143,530 | 2 | 128,518 | 2 | 113,507 | 2 | 98,481 |
| 1/4 | | 1/4 | | 1/4 | 187,947 | 1/4 | 177,623 | 1/4 | 167,263 | 1/4 | 156,777 | 1/4 | 143,217 | 1/4 | 128,206 | 1/4 | 113,194 | 1/4 | 98,168 |
| 1/2 | | 1/2 | | 1/2 | 187,733 | 1/2 | 177,407 | 1/2 | 167,047 | 1/2 | 156,536 | 1/2 | 142,904 | 1/2 | 127,893 | 1/2 | 112,882 | 1/2 | 97,854 |
| 3/4 | | 3/4 | | 3/4 | 187,519 | 3/4 | 177,192 | 3/4 | 166,830 | 3/4 | 156,296 | 3/4 | 142,592 | 3/4 | 127,580 | 3/4 | 112,569 | 3/4 | 97,541 |
| 3 | | 3 | | 3 | 187,305 | 3 | 176,976 | 3 | 166,614 | 3 | 156,055 | 3 | 142,279 | 3 | 127,268 | 3 | 112,256 | 3 | 97,228 |
| 1/4 | | 1/4 | | 1/4 | 187,091 | 1/4 | 176,761 | 1/4 | 166,398 | 1/4 | 155,815 | 1/4 | 141,966 | 1/4 | 126,955 | 1/4 | 111,943 | 1/4 | 96,915 |
| 1/2 | | 1/2 | | 1/2 | 186,877 | 1/2 | 176,545 | 1/2 | 166,182 | 1/2 | 155,574 | 1/2 | 141,653 | 1/2 | 126,642 | 1/2 | 111,631 | 1/2 | 96,602 |
| 3/4 | | 3/4 | | 3/4 | 186,663 | 3/4 | 176,329 | 3/4 | 165,966 | 3/4 | 155,334 | 3/4 | 141,341 | 3/4 | 126,329 | 3/4 | 111,318 | 3/4 | 96,289 |
| 4 | | 4 | | 4 | 186,449 | 4 | 176,114 | 4 | 165,750 | 4 | 155,094 | 4 | 141,028 | 4 | 126,017 | 4 | 111,005 | 4 | 95,976 |
| 1/4 | | 1/4 | | 1/4 | 186,235 | 1/4 | 175,898 | 1/4 | 165,533 | 1/4 | 154,853 | 1/4 | 140,715 | 1/4 | 125,704 | 1/4 | 110,692 | 1/4 | 95,662 |
| 1/2 | | 1/2 | | 1/2 | 186,021 | 1/2 | 175,683 | 1/2 | 165,317 | 1/2 | 154,613 | 1/2 | 140,403 | 1/2 | 125,391 | 1/2 | 110,380 | 1/2 | 95,349 |
| 3/4 | | 3/4 | | 3/4 | 185,806 | 3/4 | 175,467 | 3/4 | 165,101 | 3/4 | 154,372 | 3/4 | 140,090 | 3/4 | 125,078 | 3/4 | 110,067 | 3/4 | 95,036 |
| 5 | | 5 | | 5 | 185,592 | 5 | 175,252 | 5 | 164,885 | 5 | 154,132 | 5 | 139,777 | 5 | 124,766 | 5 | 109,754 | 5 | 94,723 |
| 1/4 | | 1/4 | | 1/4 | 185,378 | 1/4 | 175,036 | 1/4 | 164,669 | 1/4 | 153,891 | 1/4 | 139,464 | 1/4 | 124,453 | 1/4 | 109,441 | 1/4 | 94,410 |
| 1/2 | | 1/2 | | 1/2 | 194,796 | 1/2 | 185,164 | 1/2 | 174,820 | 1/2 | 164,452 | 1/2 | 153,651 | 1/2 | 139,152 | 1/2 | 109,128 | 1/2 | 94,097 |
| 3/4 | | 3/4 | | 3/4 | 194,677 | 3/4 | 184,950 | 3/4 | 174,605 | 3/4 | 164,236 | 3/4 | 153,410 | 3/4 | 138,839 | 3/4 | 108,815 | 3/4 | 93,784 |
| 6 | | 6 | | 6 | 194,558 | 6 | 184,735 | 6 | 174,389 | 6 | 164,020 | 6 | 153,170 | 6 | 138,526 | 6 | 108,501 | 6 | 93,470 |
| 1/4 | | 1/4 | | 1/4 | 194,439 | 1/4 | 184,520 | 1/4 | 174,174 | 1/4 | 163,804 | 1/4 | 152,929 | 1/4 | 138,213 | 1/4 | 108,188 | 1/4 | 93,157 |
| 1/2 | | 1/2 | | 1/2 | 194,320 | 1/2 | 184,306 | 1/2 | 173,958 | 1/2 | 163,588 | 1/2 | 152,689 | 1/2 | 137,901 | 1/2 | 107,875 | 1/2 | 92,844 |
| 3/4 | | 3/4 | | 3/4 | 194,156 | 3/4 | 184,090 | 3/4 | 173,743 | 3/4 | 163,372 | 3/4 | 152,422 | 3/4 | 137,588 | 3/4 | 107,562 | 3/4 | 92,531 |
| 7 | | 7 | | 7 | 193,992 | 7 | 183,875 | 7 | 173,527 | 7 | 163,155 | 7 | 152,155 | 7 | 137,275 | 7 | 107,249 | 7 | 92,218 |
| 1/4 | | 1/4 | | 1/4 | 193,828 | 1/4 | 183,659 | 1/4 | 173,311 | 1/4 | 162,939 | 1/4 | 151,888 | 1/4 | 136,962 | 1/4 | 106,936 | 1/4 | 91,905 |
| 1/2 | | 1/2 | | 1/2 | 193,664 | 1/2 | 183,443 | 1/2 | 173,096 | 1/2 | 162,723 | 1/2 | 151,621 | 1/2 | 136,650 | 1/2 | 106,623 | 1/2 | 91,592 |
| 3/4 | | 3/4 | | 3/4 | 193,465 | 3/4 | 183,228 | 3/4 | 172,880 | 3/4 | 162,507 | 3/4 | 151,310 | 3/4 | 136,337 | 3/4 | 106,309 | 3/4 | 91,278 |
| 8 | | 8 | | 8 | 193,265 | 8 | 183,012 | 8 | 172,665 | 8 | 162,291 | 8 | 150,999 | 8 | 136,024 | 8 | 105,996 | 8 | 90,965 |
| 1/4 | | 1/4 | | 1/4 | 193,066 | 1/4 | 182,797 | 1/4 | 172,449 | 1/4 | 162,074 | 1/4 | 150,688 | 1/4 | 135,711 | 1/4 | 105,683 | 1/4 | 90,652 |
| 1/2 | | 1/2 | | 1/2 | 192,866 | 1/2 | 182,581 | 1/2 | 172,234 | 1/2 | 161,858 | 1/2 | 150,377 | 1/2 | 135,399 | 1/2 | 105,370 | 1/2 | 90,339 |
| 3/4 | | 3/4 | | 3/4 | 192,653 | 3/4 | 182,366 | 3/4 | 172,018 | 3/4 | 161,642 | 3/4 | 150,066 | 3/4 | 135,086 | 3/4 | 105,057 | 3/4 | 90,026 |
| 9 | | 9 | | 9 | 192,440 | 9 | 182,150 | 9 | 171,802 | 9 | 161,426 | 9 | 149,754 | 9 | 134,773 | 9 | 104,744 | 9 | 89,713 |
| 1/4 | | 1/4 | | 1/4 | 192,227 | 1/4 | 181,934 | 1/4 | 171,586 | 1/4 | 161,210 | 1/4 | 149,443 | 1/4 | 134,461 | 1/4 | 104,431 | 1/4 | 89,400 |
| 1/2 | | 1/2 | | 1/2 | 192,014 | 1/2 | 181,719 | 1/2 | 171,370 | 1/2 | 160,993 | 1/2 | 149,132 | 1/2 | 134,148 | 1/2 | 104,117 | 1/2 | 89,086 |
| 3/4 | | 3/4 | | 3/4 | 191,800 | 3/4 | 181,503 | 3/4 | 171,154 | 3/4 | 160,777 | 3/4 | 148,821 | 3/4 | 133,835 | 3/4 | 103,804 | 3/4 | 88,773 |
| 10 | | 10 | | 10 | 191,586 | 10 | 181,288 | 10 | 170,938 | 10 | 160,561 | 10 | 148,510 | 10 | 133,522 | 10 | 103,491 | 10 | 88,460 |
| 1/4 | | 1/4 | | 1/4 | 191,372 | 1/4 | 181,072 | 1/4 | 170,722 | 1/4 | 160,345 | 1/4 | 148,199 | 1/4 | 133,210 | 1/4 | 103,178 | 1/4 | 88,147 |
| 1/2 | | 1/2 | | 1/2 | 191,158 | 1/2 | 180,857 | 1/2 | 170,506 | 1/2 | 160,129 | 1/2 | 147,888 | 1/2 | 132,897 | 1/2 | 102,865 | 1/2 | 87,834 |
| 3/4 | | 3/4 | | 3/4 | 190,944 | 3/4 | 180,641 | 3/4 | 170,289 | 3/4 | 159,913 | 3/4 | 147,577 | 3/4 | 132,584 | 3/4 | 102,552 | 3/4 | 87,521 |
| 11 | | 11 | | 11 | 190,730 | 11 | 180,425 | 11 | 170,073 | 11 | 159,696 | 11 | 147,266 | 11 | 132,271 | 11 | 102,239 | 11 | 87,208 |
| 1/4 | | 1/4 | | 1/4 | 190,516 | 1/4 | 180,210 | 1/4 | 169,857 | 1/4 | 159,480 | 1/4 | 146,956 | 1/4 | 131,959 | 1/4 | 101,925 | 1/4 | 86,894 |
| 1/2 | | 1/2 | | 1/2 | 190,302 | 1/2 | 179,994 | 1/2 | 169,641 | 1/2 | 159,264 | 1/2 | 146,645 | 1/2 | 131,646 | 1/2 | 101,612 | 1/2 | 86,581 |
| 3/4 | | 3/4 | | 3/4 | 190,088 | 3/4 | 179,779 | 3/4 | 169,425 | 3/4 | 159,048 | 3/4 | 146,334 | 3/4 | 131,333 | 3/4 | 101,299 | 3/4 | 86,268 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" 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 "NGL 3023"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 85,955 | 0 | 70,924 | 0 | 55,893 | 0 | 40,878 | 0 | 25,854 | 0 | 10,824 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 85,642 | 1/4 | 70,611 | 1/4 | 55,580 | 1/4 | 40,565 | 1/4 | 25,541 | 1/4 | 10,510 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 85,329 | 1/2 | 70,298 | 1/2 | 55,267 | 1/2 | 40,253 | 1/2 | 25,228 | 1/2 | 10,197 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 85,016 | 3/4 | 69,985 | 3/4 | 54,954 | 3/4 | 39,940 | 3/4 | 24,915 | 3/4 | 9,884 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 84,702 | 1 | 69,671 | 1 | 54,641 | 1 | 39,628 | 1 | 24,602 | 1 | 9,571 | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 84,389 | 1/4 | 69,358 | 1/4 | 54,327 | 1/4 | 39,315 | 1/4 | 24,288 | 1/4 | 9,258 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 84,076 | 1/2 | 69,045 | 1/2 | 54,014 | 1/2 | 39,003 | 1/2 | 23,975 | 1/2 | 8,945 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 83,763 | 3/4 | 68,732 | 3/4 | 53,701 | 3/4 | 38,690 | 3/4 | 23,662 | 3/4 | 8,632 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 83,450 | 2 | 68,419 | 2 | 53,388 | 2 | 38,377 | 2 | 23,349 | 2 | 8,319 | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 83,137 | 1/4 | 68,106 | 1/4 | 53,075 | 1/4 | 38,065 | 1/4 | 23,036 | 1/4 | 8,005 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 82,824 | 1/2 | 67,793 | 1/2 | 52,762 | 1/2 | 37,752 | 1/2 | 22,723 | 1/2 | 7,692 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 82,510 | 3/4 | 67,479 | 3/4 | 52,449 | 3/4 | 37,439 | 3/4 | 22,410 | 3/4 | 7,379 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 82,197 | 3 | 67,166 | 3 | 52,135 | 3 | 37,126 | 3 | 22,096 | 3 | 7,066 | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 81,884 | 1/4 | 66,853 | 1/4 | 51,822 | 1/4 | 36,814 | 1/4 | 21,783 | 1/4 | 6,753 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 81,571 | 1/2 | 66,540 | 1/2 | 51,509 | 1/2 | 36,501 | 1/2 | 21,470 | 1/2 | 6,440 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 81,258 | 3/4 | 66,227 | 3/4 | 51,196 | 3/4 | 36,188 | 3/4 | 21,157 | 3/4 | 6,127 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 80,945 | 4 | 65,914 | 4 | 50,883 | 4 | 35,874 | 4 | 20,844 | 4 | 5,813 | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 80,632 | 1/4 | 65,601 | 1/4 | 50,570 | 1/4 | 35,561 | 1/4 | 20,531 | 1/4 | 5,500 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 80,318 | 1/2 | 65,287 | 1/2 | 50,256 | 1/2 | 35,248 | 1/2 | 20,218 | 1/2 | 5,187 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 80,005 | 3/4 | 64,974 | 3/4 | 49,944 | 3/4 | 34,935 | 3/4 | 19,905 | 3/4 | 4,874 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 79,692 | 5 | 64,661 | 5 | 49,631 | 5 | 34,622 | 5 | 19,591 | 5 | 4,561 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 79,379 | 1/4 | 64,348 | 1/4 | 49,318 | 1/4 | 34,309 | 1/4 | 19,278 | 1/4 | 4,248 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 79,066 | 1/2 | 64,035 | 1/2 | 49,005 | 1/2 | 33,996 | 1/2 | 18,965 | 1/2 | 3,936 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 78,753 | 3/4 | 63,722 | 3/4 | 48,692 | 3/4 | 33,683 | 3/4 | 18,652 | 3/4 | 3,623 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 78,440 | 6 | 63,409 | 6 | 48,379 | 6 | 33,369 | 6 | 18,339 | 6 | 3,311 | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 78,126 | 1/4 | 63,095 | 1/4 | 48,067 | 1/4 | 33,056 | 1/4 | 18,026 | 1/4 | 2,999 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 77,813 | 1/2 | 62,782 | 1/2 | 47,754 | 1/2 | 32,743 | 1/2 | 17,713 | 1/2 | 2,686 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 77,500 | 3/4 | 62,469 | 3/4 | 47,441 | 3/4 | 32,430 | 3/4 | 17,399 | 3/4 | 2,394 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 77,187 | 7 | 62,156 | 7 | 47,129 | 7 | 32,117 | 7 | 17,086 | 7 | 2,101 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 76,874 | 1/4 | 61,843 | 1/4 | 46,816 | 1/4 | 31,804 | 1/4 | 16,773 | 1/4 | 1,809 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 76,561 | 1/2 | 61,530 | 1/2 | 46,504 | 1/2 | 31,491 | 1/2 | 16,460 | 1/2 | 1,516 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 76,248 | 3/4 | 61,217 | 3/4 | 46,191 | 3/4 | 31,177 | 3/4 | 16,147 | 3/4 | 1,294 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 75,934 | 8 | 60,903 | 8 | 45,879 | 8 | 30,864 | 8 | 15,834 | 8 | 1,073 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 75,621 | 1/4 | 60,590 | 1/4 | 45,566 | 1/4 | 30,551 | 1/4 | 15,521 | 1/4 | 851 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 75,308 | 1/2 | 60,277 | 1/2 | 45,254 | 1/2 | 30,238 | 1/2 | 15,208 | 1/2 | 629 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74,995 | 3/4 | 59,964 | 3/4 | 44,941 | 3/4 | 29,925 | 3/4 | 14,894 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 74,682 | 9 | 59,651 | 9 | 44,628 | 9 | 29,612 | 9 | 14,581 | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 74,369 | 1/4 | 59,338 | 1/4 | 44,316 | 1/4 | 29,299 | 1/4 | 14,268 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 74,055 | 1/2 | 59,025 | 1/2 | 44,003 | 1/2 | 28,985 | 1/2 | 13,955 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 73,742 | 3/4 | 58,711 | 3/4 | 43,691 | 3/4 | 28,672 | 3/4 | 13,642 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 73,429 | 10 | 58,398 | 10 | 43,378 | 10 | 28,359 | 10 | 13,329 | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 73,116 | 1/4 | 58,085 | 1/4 | 43,066 | 1/4 | 28,046 | 1/4 | 13,016 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 72,803 | 1/2 | 57,772 | 1/2 | 42,753 | 1/2 | 27,733 | 1/2 | 12,702 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 72,490 | 3/4 | 57,459 | 3/4 | 42,441 | 3/4 | 27,420 | 3/4 | 12,389 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 72,177 | 11 | 57,146 | 11 | 42,128 | 11 | 27,107 | 11 | 12,076 | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 71,863 | 1/4 | 56,833 | 1/4 | 41,816 | 1/4 | 26,794 | 1/4 | 11,763 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71,550 | 1/2 | 56,519 | 1/2 | 41,503 | 1/2 | 26,480 | 1/2 | 11,450 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 71,237 | 3/4 | 56,206 | 3/4 | 41,190 | 3/4 | 26,167 | 3/4 | 11,137 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.dmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | | 0 | | 0 | 188,757 | 0 | 178,458 | 0 | 168,114 | 0 | 157,749 | 0 | 144,961 | 0 | 130,004 | 0 | 115,042 | 0 | 100,068 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 188,543 | 1/4 | 178,242 | 1/4 | 167,899 | 1/4 | 157,533 | 1/4 | 144,651 | 1/4 | 129,692 | 1/4 | 114,731 | 1/4 | 99,755 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 188,329 | 1/2 | 178,027 | 1/2 | 167,683 | 1/2 | 157,317 | 1/2 | 144,341 | 1/2 | 129,380 | 1/2 | 114,419 | 1/2 | 99,443 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 188,116 | 3/4 | 177,812 | 3/4 | 167,467 | 3/4 | 157,092 | 3/4 | 144,030 | 3/4 | 129,068 | 3/4 | 114,108 | 3/4 | 99,131 |
| 1 | 1 | 1 | 1 | 1 | 187,902 | 1 | 177,596 | 1 | 167,251 | 1 | 156,867 | 1 | 143,720 | 1 | 128,757 | 1 | 113,796 | 1 | 98,819 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 187,688 | 1/4 | 177,381 | 1/4 | 167,035 | 1/4 | 156,642 | 1/4 | 143,409 | 1/4 | 128,445 | 1/4 | 113,485 | 1/4 | 98,506 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 187,474 | 1/2 | 177,166 | 1/2 | 166,819 | 1/2 | 156,417 | 1/2 | 143,099 | 1/2 | 128,133 | 1/2 | 113,173 | 1/2 | 98,194 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 187,260 | 3/4 | 176,950 | 3/4 | 166,603 | 3/4 | 156,177 | 3/4 | 142,787 | 3/4 | 127,821 | 3/4 | 112,862 | 3/4 | 97,882 |
| 2 | 2 | 2 | 2 | 2 | 187,046 | 2 | 176,735 | 2 | 166,387 | 2 | 155,936 | 2 | 142,475 | 2 | 127,510 | 2 | 112,550 | 2 | 97,570 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 186,833 | 1/4 | 176,520 | 1/4 | 166,171 | 1/4 | 155,696 | 1/4 | 142,163 | 1/4 | 127,198 | 1/4 | 112,239 | 1/4 | 97,257 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 186,619 | 1/2 | 176,304 | 1/2 | 165,955 | 1/2 | 155,456 | 1/2 | 141,851 | 1/2 | 126,886 | 1/2 | 111,927 | 1/2 | 96,945 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 186,405 | 3/4 | 176,089 | 3/4 | 165,739 | 3/4 | 155,216 | 3/4 | 141,540 | 3/4 | 126,574 | 3/4 | 111,616 | 3/4 | 96,633 |
| 3 | 3 | 3 | 3 | 3 | 186,191 | 3 | 175,874 | 3 | 165,523 | 3 | 154,976 | 3 | 141,228 | 3 | 126,262 | 3 | 111,304 | 3 | 96,321 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 185,977 | 1/4 | 175,658 | 1/4 | 165,307 | 1/4 | 154,736 | 1/4 | 140,916 | 1/4 | 125,951 | 1/4 | 110,992 | 1/4 | 96,008 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 185,763 | 1/2 | 175,443 | 1/2 | 165,091 | 1/2 | 154,495 | 1/2 | 140,604 | 1/2 | 125,639 | 1/2 | 110,681 | 1/2 | 95,696 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 185,550 | 3/4 | 175,228 | 3/4 | 164,875 | 3/4 | 154,255 | 3/4 | 140,292 | 3/4 | 125,327 | 3/4 | 110,369 | 3/4 | 95,384 |
| 4 | 4 | 4 | 4 | 4 | 185,336 | 4 | 175,012 | 4 | 164,659 | 4 | 154,015 | 4 | 139,981 | 4 | 125,015 | 4 | 110,058 | 4 | 95,072 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 185,122 | 1/4 | 174,797 | 1/4 | 164,443 | 1/4 | 153,775 | 1/4 | 139,669 | 1/4 | 124,704 | 1/4 | 109,746 | 1/4 | 94,759 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 184,908 | 1/2 | 174,582 | 1/2 | 164,227 | 1/2 | 153,535 | 1/2 | 139,357 | 1/2 | 124,392 | 1/2 | 109,434 | 1/2 | 94,447 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 184,694 | 3/4 | 174,366 | 3/4 | 164,011 | 3/4 | 153,294 | 3/4 | 139,045 | 3/4 | 124,080 | 3/4 | 109,122 | 3/4 | 94,135 |
| 5 | 5 | 5 | 5 | 5 | 184,480 | 5 | 174,151 | 5 | 163,796 | 5 | 153,054 | 5 | 138,734 | 5 | 123,768 | 5 | 108,810 | 5 | 93,823 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 184,267 | 1/4 | 173,936 | 1/4 | 163,580 | 1/4 | 152,814 | 1/4 | 138,422 | 1/4 | 123,456 | 1/4 | 108,498 | 1/4 | 93,510 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 193,674 | 1/2 | 184,053 | 1/2 | 173,720 | 1/2 | 163,364 | 1/2 | 152,574 | 1/2 | 138,110 | 1/2 | 108,186 | 1/2 | 93,198 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 193,555 | 3/4 | 183,838 | 3/4 | 173,505 | 3/4 | 163,148 | 3/4 | 152,334 | 3/4 | 137,798 | 3/4 | 107,874 | 3/4 | 92,886 |
| 6 | 6 | 6 | 6 | 6 | 193,436 | 6 | 183,624 | 6 | 173,290 | 6 | 162,932 | 6 | 152,093 | 6 | 137,486 | 6 | 107,562 | 6 | 92,574 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 193,317 | 1/4 | 183,410 | 1/4 | 173,074 | 1/4 | 162,716 | 1/4 | 151,853 | 1/4 | 137,175 | 1/4 | 107,249 | 1/4 | 92,261 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 193,198 | 1/2 | 183,195 | 1/2 | 172,859 | 1/2 | 162,500 | 1/2 | 151,613 | 1/2 | 136,863 | 1/2 | 106,937 | 1/2 | 91,949 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 193,035 | 3/4 | 182,980 | 3/4 | 172,644 | 3/4 | 162,284 | 3/4 | 151,346 | 3/4 | 136,551 | 3/4 | 106,625 | 3/4 | 91,637 |
| 7 | 7 | 7 | 7 | 7 | 192,871 | 7 | 182,765 | 7 | 172,428 | 7 | 162,068 | 7 | 151,080 | 7 | 136,239 | 7 | 106,313 | 7 | 91,325 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 192,707 | 1/4 | 182,549 | 1/4 | 172,213 | 1/4 | 161,852 | 1/4 | 150,813 | 1/4 | 135,928 | 1/4 | 106,000 | 1/4 | 91,012 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 192,544 | 1/2 | 182,334 | 1/2 | 171,998 | 1/2 | 161,636 | 1/2 | 150,547 | 1/2 | 135,616 | 1/2 | 105,688 | 1/2 | 90,700 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 192,344 | 3/4 | 182,119 | 3/4 | 171,782 | 3/4 | 161,420 | 3/4 | 150,236 | 3/4 | 135,304 | 3/4 | 105,376 | 3/4 | 90,388 |
| 8 | 8 | 8 | 8 | 8 | 192,145 | 8 | 181,903 | 8 | 171,567 | 8 | 161,204 | 8 | 149,925 | 8 | 134,992 | 8 | 105,064 | 8 | 90,076 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 191,946 | 1/4 | 181,688 | 1/4 | 171,352 | 1/4 | 160,988 | 1/4 | 149,615 | 1/4 | 134,680 | 1/4 | 104,751 | 1/4 | 89,763 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 191,746 | 1/2 | 181,473 | 1/2 | 171,136 | 1/2 | 160,772 | 1/2 | 149,304 | 1/2 | 134,369 | 1/2 | 104,439 | 1/2 | 89,451 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 191,533 | 3/4 | 181,257 | 3/4 | 170,921 | 3/4 | 160,556 | 3/4 | 148,993 | 3/4 | 134,057 | 3/4 | 104,127 | 3/4 | 89,140 |
| 9 | 9 | 9 | 9 | 9 | 191,320 | 9 | 181,042 | 9 | 170,705 | 9 | 160,340 | 9 | 148,683 | 9 | 133,745 | 9 | 103,815 | 9 | 88,829 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 191,108 | 1/4 | 180,827 | 1/4 | 170,490 | 1/4 | 160,124 | 1/4 | 148,372 | 1/4 | 133,433 | 1/4 | 103,502 | 1/4 | 88,518 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 190,895 | 1/2 | 180,611 | 1/2 | 170,274 | 1/2 | 159,908 | 1/2 | 148,061 | 1/2 | 133,122 | 1/2 | 103,190 | 1/2 | 88,206 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 190,681 | 3/4 | 180,396 | 3/4 | 170,058 | 3/4 | 159,692 | 3/4 | 147,751 | 3/4 | 132,810 | 3/4 | 102,878 | 3/4 | 87,897 |
| 10 | 10 | 10 | 10 | 10 | 190,467 | 10 | 180,181 | 10 | 169,842 | 10 | 159,477 | 10 | 147,440 | 10 | 132,498 | 10 | 102,566 | 10 | 87,588 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 190,254 | 1/4 | 179,965 | 1/4 | 169,626 | 1/4 | 159,261 | 1/4 | 147,130 | 1/4 | 132,186 | 1/4 | 102,253 | 1/4 | 87,279 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 190,040 | 1/2 | 179,750 | 1/2 | 169,410 | 1/2 | 159,045 | 1/2 | 146,820 | 1/2 | 131,874 | 1/2 | 101,941 | 1/2 | 86,969 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 189,826 | 3/4 | 179,534 | 3/4 | 169,194 | 3/4 | 158,829 | 3/4 | 146,510 | 3/4 | 131,563 | 3/4 | 101,629 | 3/4 | 86,660 |
| 11 | 11 | 11 | 11 | 11 | 189,612 | 11 | 179,319 | 11 | 168,978 | 11 | 158,613 | 11 | 146,200 | 11 | 131,251 | 11 | 101,317 | 11 | 86,351 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 189,399 | 1/4 | 179,104 | 1/4 | 168,762 | 1/4 | 158,397 | 1/4 | 145,890 | 1/4 | 130,939 | 1/4 | 101,004 | 1/4 | 86,041 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 189,185 | 1/2 | 178,888 | 1/2 | 168,546 | 1/2 | 158,181 | 1/2 | 145,580 | 1/2 | 130,627 | 1/2 | 100,692 | 1/2 | 85,732 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 188,971 | 3/4 | 178,673 | 3/4 | 168,330 | 3/4 | 157,965 | 3/4 | 145,270 | 3/4 | 130,316 | 3/4 | 100,380 | 3/4 | 85,423 |

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 LIP OF "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "NGL 3023"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 85,113 | 0 | 70,234 | 0 | 55,533 | 0 | 40,779 | 0 | 25,795 | 0 | 10,806 | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 84,804 | 1/4 | 69,922 | 1/4 | 55,232 | 1/4 | 40,468 | 1/4 | 25,483 | 1/4 | 10,494 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 84,495 | 1/2 | 69,610 | 1/2 | 54,931 | 1/2 | 40,156 | 1/2 | 25,171 | 1/2 | 10,181 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 84,185 | 3/4 | 69,298 | 3/4 | 54,630 | 3/4 | 39,844 | 3/4 | 24,858 | 3/4 | 9,869 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 83,876 | 1 | 68,986 | 1 | 54,329 | 1 | 39,532 | 1 | 24,546 | 1 | 9,557 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 83,567 | 1/4 | 68,673 | 1/4 | 54,028 | 1/4 | 39,221 | 1/4 | 24,234 | 1/4 | 9,244 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 83,257 | 1/2 | 68,361 | 1/2 | 53,727 | 1/2 | 38,909 | 1/2 | 23,921 | 1/2 | 8,932 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 82,948 | 3/4 | 68,050 | 3/4 | 53,425 | 3/4 | 38,597 | 3/4 | 23,609 | 3/4 | 8,620 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 82,639 | 2 | 67,738 | 2 | 53,124 | 2 | 38,285 | 2 | 23,297 | 2 | 8,307 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 82,329 | 1/4 | 67,426 | 1/4 | 52,823 | 1/4 | 37,974 | 1/4 | 22,984 | 1/4 | 7,995 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 82,020 | 1/2 | 67,114 | 1/2 | 52,522 | 1/2 | 37,662 | 1/2 | 22,672 | 1/2 | 7,682 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 81,711 | 3/4 | 66,802 | 3/4 | 52,221 | 3/4 | 37,350 | 3/4 | 22,360 | 3/4 | 7,370 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 81,401 | 3 | 66,490 | 3 | 51,920 | 3 | 37,038 | 3 | 22,047 | 3 | 7,057 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 81,092 | 1/4 | 66,178 | 1/4 | 51,619 | 1/4 | 36,726 | 1/4 | 21,735 | 1/4 | 6,745 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 80,783 | 1/2 | 65,866 | 1/2 | 51,318 | 1/2 | 36,414 | 1/2 | 21,423 | 1/2 | 6,432 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 80,473 | 3/4 | 65,554 | 3/4 | 51,016 | 3/4 | 36,101 | 3/4 | 21,111 | 3/4 | 6,119 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 80,164 | 4 | 65,242 | 4 | 50,714 | 4 | 35,789 | 4 | 20,799 | 4 | 5,807 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 79,855 | 1/4 | 64,929 | 1/4 | 50,412 | 1/4 | 35,477 | 1/4 | 20,486 | 1/4 | 5,494 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 79,545 | 1/2 | 64,617 | 1/2 | 50,110 | 1/2 | 35,164 | 1/2 | 20,174 | 1/2 | 5,181 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 79,236 | 3/4 | 64,308 | 3/4 | 49,804 | 3/4 | 34,852 | 3/4 | 19,862 | 3/4 | 4,868 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 78,927 | 5 | 63,999 | 5 | 49,497 | 5 | 34,540 | 5 | 19,550 | 5 | 4,556 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 78,617 | 1/4 | 63,689 | 1/4 | 49,191 | 1/4 | 34,228 | 1/4 | 19,238 | 1/4 | 4,243 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 78,308 | 1/2 | 63,380 | 1/2 | 48,885 | 1/2 | 33,915 | 1/2 | 18,926 | 1/2 | 3,931 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 77,999 | 3/4 | 63,076 | 3/4 | 48,573 | 3/4 | 33,603 | 3/4 | 18,614 | 3/4 | 3,619 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 77,689 | 6 | 62,771 | 6 | 48,261 | 6 | 33,291 | 6 | 18,301 | 6 | 3,307 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 77,380 | 1/4 | 62,467 | 1/4 | 47,949 | 1/4 | 32,978 | 1/4 | 17,989 | 1/4 | 2,995 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 77,071 | 1/2 | 62,163 | 1/2 | 47,637 | 1/2 | 32,666 | 1/2 | 17,677 | 1/2 | 2,683 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 76,761 | 3/4 | 61,861 | 3/4 | 47,326 | 3/4 | 32,354 | 3/4 | 17,365 | 3/4 | 2,391 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 76,452 | 7 | 61,558 | 7 | 47,014 | 7 | 32,041 | 7 | 17,052 | 7 | 2,098 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 76,143 | 1/4 | 61,256 | 1/4 | 46,702 | 1/4 | 31,729 | 1/4 | 16,740 | 1/4 | 1,806 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 75,833 | 1/2 | 60,954 | 1/2 | 46,390 | 1/2 | 31,417 | 1/2 | 16,428 | 1/2 | 1,514 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 75,524 | 3/4 | 60,653 | 3/4 | 46,079 | 3/4 | 31,104 | 3/4 | 16,115 | 3/4 | 1,292 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 75,215 | 8 | 60,351 | 8 | 45,767 | 8 | 30,792 | 8 | 15,803 | 8 | 1,071 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 74,905 | 1/4 | 60,050 | 1/4 | 45,455 | 1/4 | 30,480 | 1/4 | 15,491 | 1/4 | 849 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 74,596 | 1/2 | 59,749 | 1/2 | 45,144 | 1/2 | 30,167 | 1/2 | 15,178 | 1/2 | 628 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 74,286 | 3/4 | 59,448 | 3/4 | 44,832 | 3/4 | 29,855 | 3/4 | 14,866 | 3/4 | --- | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 73,975 | 9 | 59,147 | 9 | 44,520 | 9 | 29,543 | 9 | 14,554 | 9 | --- | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 73,665 | 1/4 | 58,846 | 1/4 | 44,208 | 1/4 | 29,231 | 1/4 | 14,241 | 1/4 | --- | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 73,355 | 1/2 | 58,545 | 1/2 | 43,897 | 1/2 | 28,918 | 1/2 | 13,929 | 1/2 | --- | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 73,043 | 3/4 | 58,244 | 3/4 | 43,585 | 3/4 | 28,606 | 3/4 | 13,617 | 3/4 | --- | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 72,731 | 10 | 57,942 | 10 | 43,273 | 10 | 28,294 | 10 | 13,304 | 10 | --- | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 72,418 | 1/4 | 57,641 | 1/4 | 42,961 | 1/4 | 27,981 | 1/4 | 12,992 | 1/4 | --- | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 72,106 | 1/2 | 57,340 | 1/2 | 42,650 | 1/2 | 27,669 | 1/2 | 12,680 | 1/2 | --- | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 71,794 | 3/4 | 57,039 | 3/4 | 42,338 | 3/4 | 27,357 | 3/4 | 12,367 | 3/4 | --- | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 71,482 | 11 | 56,738 | 11 | 42,026 | 11 | 27,044 | 11 | 12,055 | 11 | --- | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 71,170 | 1/4 | 56,437 | 1/4 | 41,715 | 1/4 | 26,732 | 1/4 | 11,743 | 1/4 | --- | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 70,858 | 1/2 | 56,136 | 1/2 | 41,403 | 1/2 | 26,420 | 1/2 | 11,430 | 1/2 | --- | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 70,546 | 3/4 | 55,834 | 3/4 | 41,091 | 3/4 | 26,107 | 3/4 | 11,118 | 3/4 | --- | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "NGL 3023"

PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-----------|-----------|--------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 1 | 1 | 1 | 1 | 3,887 | 1 | 2,734 | 1 | 1,584 | 1 | 432 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 2 | 2 | 2 | 2 | 3,791 | 2 | 2,638 | 2 | 1,488 | 2 | 336 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 3 | 3 | 3 | 3 | 3,695 | 3 | 2,542 | 3 | 1,392 | 3 | 240 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 4 | 4 | 4 | 4 | 3,599 | 4 | 2,446 | 4 | 1,296 | 4 | 144 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 5 | 5 | 5 | 5 | 3,503 | 5 | 2,350 | 5 | 1,200 | 5 | 48 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 6 | 4,554 | 6 | 3,407 | 6 | 2,254 | 6 | 1,104 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 7 | 4,459 | 7 | 3,311 | 7 | 2,158 | 7 | 1,008 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 8 | 4,364 | 8 | 3,215 | 8 | 2,062 | 8 | 912 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 9 | 4,269 | 9 | 3,119 | 9 | 1,967 | 9 | 816 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 10 | 4,174 | 10 | 3,023 | 10 | 1,871 | 10 | 720 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 11 | 4,079 | 11 | 2,926 | 11 | 1,776 | 11 | 624 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 12 | 12 | 4,007 | 12 | 2,854 | 12 | 1,704 | 12 | 552 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

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 "HERMETIC" VALVE.

STRAPPED: 05/13/2019 SW
CALCULATED: 05/14/2019 CL
PRINTED: 05/16/2019 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "NGL 3023"

STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | | 1/4 | | 1/4 | 3,959 | 1/4 | | 1/4 | 2,806 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 3,935 | 1/2 | | 1/2 | 2,782 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 3,911 | 3/4 | | 3/4 | 2,758 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 1 | 1 | 1 | 1 | 3,887 | 1 | 1 | 1 | 2,734 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | | 1/4 | | 1/4 | 3,863 | 1/4 | | 1/4 | 2,710 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 3,839 | 1/2 | | 1/2 | 2,686 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 3,815 | 3/4 | | 3/4 | 2,662 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2 | 2 | 2 | 2 | 3,791 | 2 | 2 | 2 | 2,638 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | | 1/4 | | 1/4 | 3,767 | 1/4 | | 1/4 | 2,614 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 3,743 | 1/2 | | 1/2 | 2,590 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 3,719 | 3/4 | | 3/4 | 2,566 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3 | 3 | 3 | 3 | 3,695 | 3 | 3 | 3 | 2,542 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | | 1/4 | | 1/4 | 3,671 | 1/4 | | 1/4 | 2,518 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 3,647 | 1/2 | | 1/2 | 2,494 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 3,623 | 3/4 | | 3/4 | 2,470 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 4 | 4 | 4 | 4 | 3,599 | 4 | 4 | 4 | 2,446 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | | 1/4 | | 1/4 | 3,575 | 1/4 | | 1/4 | 2,422 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 3,551 | 1/2 | | 1/2 | 2,398 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 3,527 | 3/4 | | 3/4 | 2,374 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 5 | 5 | 5 | 5 | 3,503 | 5 | 5 | 5 | 2,350 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | | 1/4 | | 1/4 | 3,479 | 1/4 | | 1/4 | 2,326 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,601 | 1/2 | | 1/2 | 3,455 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,577 | 3/4 | | 3/4 | 3,431 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 6 | 6 | 6 | 6 | 4,554 | 6 | 6 | 6 | 2,254 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | | 1/4 | | 1/4 | 4,530 | 1/4 | | 1/4 | 2,230 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,506 | 1/2 | | 1/2 | 2,206 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,482 | 3/4 | | 3/4 | 2,182 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 7 | 7 | 7 | 7 | 4,459 | 7 | 7 | 7 | 2,158 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | | 1/4 | | 1/4 | 4,435 | 1/4 | | 1/4 | 2,134 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,411 | 1/2 | | 1/2 | 2,110 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,388 | 3/4 | | 3/4 | 2,086 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 8 | 8 | 8 | 8 | 4,364 | 8 | 8 | 8 | 2,062 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | | 1/4 | | 1/4 | 4,340 | 1/4 | | 1/4 | 2,038 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,317 | 1/2 | | 1/2 | 2,014 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,293 | 3/4 | | 3/4 | 1,990 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 9 | 9 | 9 | 9 | 4,269 | 9 | 9 | 9 | 1,967 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | | 1/4 | | 1/4 | 4,245 | 1/4 | | 1/4 | 1,943 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,222 | 1/2 | | 1/2 | 1,919 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,198 | 3/4 | | 3/4 | 1,895 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 10 | 10 | 10 | 10 | 4,174 | 10 | 10 | 10 | 1,871 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | | 1/4 | | 1/4 | 4,151 | 1/4 | | 1/4 | 2,998 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,127 | 1/2 | | 1/2 | 1,823 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,103 | 3/4 | | 3/4 | 1,800 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 11 | 11 | 11 | 11 | 4,079 | 11 | 11 | 11 | 1,776 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | | 1/4 | | 1/4 | 4,055 | 1/4 | | 1/4 | 2,902 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | 4,031 | 1/2 | | 1/2 | 1,728 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | 4,007 | 3/4 | | 3/4 | 1,704 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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