



# BARGE "KIRBY 28178"

## 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	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-7/8	- 01-7/8
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2	01-7/8	- 01-7/8
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
2 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8
3 STBD	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-3/8	- 02-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-5/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

November 18, 2011

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28178"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

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		
							4,950.30		4,614.55		4,274.49		3,917.94		3,545.59		3,168.85		2,790.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,943.62	1/4	4,607.62	1/4	4,267.22	1/4	3,910.32	1/4	3,537.74	1/4	3,160.97	1/4	2,782.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,936.94	1/2	4,600.70	1/2	4,259.95	1/2	3,902.70	1/2	3,529.90	1/2	3,153.09	1/2	2,774.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,930.26	3/4	4,593.77	3/4	4,252.68	3/4	3,895.09	3/4	3,522.05	3/4	3,145.21	3/4	2,766.99		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,923.58</b>	<b>1</b>	<b>4,586.85</b>	<b>1</b>	<b>4,245.42</b>	<b>1</b>	<b>3,887.47</b>	<b>1</b>	<b>3,514.21</b>	<b>1</b>	<b>3,137.33</b>	<b>1</b>	<b>2,759.12</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,915.97	1/4	4,579.90	1/4	4,238.12	1/4	3,879.83	1/4	3,506.36	1/4	3,129.45	1/4	2,751.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,908.35	1/2	4,572.94	1/2	4,230.82	1/2	3,872.18	1/2	3,498.52	1/2	3,121.57	1/2	2,743.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,900.74	3/4	4,565.99	3/4	4,223.52	3/4	3,864.54	3/4	3,490.67	3/4	3,113.69	3/4	2,735.48		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,893.12</b>	<b>2</b>	<b>4,559.03</b>	<b>2</b>	<b>4,216.23</b>	<b>2</b>	<b>3,856.90</b>	<b>2</b>	<b>3,482.83</b>	<b>2</b>	<b>3,105.81</b>	<b>2</b>	<b>2,727.60</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,885.28	1/4	4,552.05	1/4	4,208.90	1/4	3,849.23	1/4	3,474.99	1/4	3,097.93	1/4	2,719.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,877.43	1/2	4,545.07	1/2	4,201.57	1/2	3,841.56	1/2	3,467.14	1/2	3,090.05	1/2	2,711.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,869.59	3/4	4,538.09	3/4	4,194.24	3/4	3,833.89	3/4	3,459.30	3/4	3,082.17	3/4	2,703.96		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,861.74</b>	<b>3</b>	<b>4,531.10</b>	<b>3</b>	<b>4,186.92</b>	<b>3</b>	<b>3,826.22</b>	<b>3</b>	<b>3,451.45</b>	<b>3</b>	<b>3,074.30</b>	<b>3</b>	<b>2,696.08</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,854.33	1/4	4,524.09	1/4	4,179.56	1/4	3,818.52	1/4	3,443.61	1/4	3,066.42	1/4	2,688.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,846.92	1/2	4,517.08	1/2	4,172.21	1/2	3,810.82	1/2	3,435.76	1/2	3,058.54	1/2	2,680.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,839.51	3/4	4,510.07	3/4	4,164.85	3/4	3,803.12	3/4	3,427.92	3/4	3,050.66	3/4	2,672.44		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,832.10</b>	<b>4</b>	<b>4,503.06</b>	<b>4</b>	<b>4,157.50</b>	<b>4</b>	<b>3,795.42</b>	<b>4</b>	<b>3,420.07</b>	<b>4</b>	<b>3,042.78</b>	<b>4</b>	<b>2,664.56</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,825.40	1/4	4,496.02	1/4	4,150.11	1/4	3,787.69	1/4	3,412.23	1/4	3,034.90	1/4	2,656.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,818.71	1/2	4,488.97	1/2	4,142.73	1/2	3,779.96	1/2	3,404.38	1/2	3,027.02	1/2	2,648.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,812.01	3/4	4,481.93	3/4	4,135.34	3/4	3,772.23	3/4	3,396.54	3/4	3,019.14	3/4	2,640.92		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,805.31</b>	<b>5</b>	<b>4,474.89</b>	<b>5</b>	<b>4,127.96</b>	<b>5</b>	<b>3,764.51</b>	<b>5</b>	<b>3,388.70</b>	<b>5</b>	<b>3,011.26</b>	<b>5</b>	<b>2,633.04</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.59	1/4	4,467.82	1/4	4,120.54	1/4	3,756.75	1/4	3,380.85	1/4	3,003.38	1/4	2,625.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,791.86	1/2	4,460.75	1/2	4,113.13	1/2	3,748.99	1/2	3,373.01	1/2	2,995.50	1/2	2,617.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,785.13	3/4	4,453.68	3/4	4,105.72	3/4	3,741.23	3/4	3,365.16	3/4	2,987.62	3/4	2,609.40		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,778.41</b>	<b>6</b>	<b>4,446.61</b>	<b>6</b>	<b>4,098.31</b>	<b>6</b>	<b>3,733.48</b>	<b>6</b>	<b>3,357.32</b>	<b>6</b>	<b>2,979.74</b>	<b>6</b>	<b>2,601.53</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,771.65	1/4	4,439.52	1/4	4,090.86	1/4	3,725.69	1/4	3,349.47	1/4	2,971.86	1/4	2,593.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,764.90	1/2	4,432.42	1/2	4,083.42	1/2	3,717.90	1/2	3,341.63	1/2	2,963.98	1/2	2,585.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,758.14	3/4	4,425.32	3/4	4,075.98	3/4	3,710.12	3/4	3,333.78	3/4	2,956.10	3/4	2,577.89		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,751.38</b>	<b>7</b>	<b>4,418.22</b>	<b>7</b>	<b>4,068.53</b>	<b>7</b>	<b>3,702.33</b>	<b>7</b>	<b>3,325.94</b>	<b>7</b>	<b>2,948.22</b>	<b>7</b>	<b>2,570.01</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,744.60	1/4	4,411.09	1/4	4,061.06	1/4	3,694.52	1/4	3,318.09	1/4	2,940.34	1/4	2,562.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,737.82	1/2	4,403.96	1/2	4,053.59	1/2	3,686.70	1/2	3,310.25	1/2	2,932.46	1/2	2,554.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.03	3/4	4,396.84	3/4	4,046.12	3/4	3,678.89	3/4	3,302.40	3/4	2,924.58	3/4	2,546.37		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,724.25</b>	<b>8</b>	<b>4,389.71</b>	<b>8</b>	<b>4,038.65</b>	<b>8</b>	<b>3,671.07</b>	<b>8</b>	<b>3,294.56</b>	<b>8</b>	<b>2,916.71</b>	<b>8</b>	<b>2,538.49</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.43	1/4	4,382.55	1/4	4,031.15	1/4	3,663.23	1/4	3,286.72	1/4	2,908.83	1/4	2,530.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,710.62	1/2	4,375.39	1/2	4,023.65	1/2	3,655.40	1/2	3,278.87	1/2	2,900.95	1/2	2,522.73		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,703.81	3/4	4,368.24	3/4	4,016.15	3/4	3,647.56	3/4	3,271.03	3/4	2,893.07	3/4	2,514.85		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,696.99</b>	<b>9</b>	<b>4,361.08</b>	<b>9</b>	<b>4,008.65</b>	<b>9</b>	<b>3,639.72</b>	<b>9</b>	<b>3,263.18</b>	<b>9</b>	<b>2,885.19</b>	<b>9</b>	<b>2,506.97</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.15	1/4	4,353.89	1/4	4,001.12	1/4	3,631.88	1/4	3,255.34	1/4	2,877.31	1/4	2,499.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.31	1/2	4,346.71	1/2	3,993.59	1/2	3,624.03	1/2	3,247.49	1/2	2,869.43	1/2	2,491.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,676.47	3/4	4,339.52	3/4	3,986.06	3/4	3,616.19	3/4	3,239.65	3/4	2,861.55	3/4	2,483.33		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,669.62</b>	<b>10</b>	<b>4,332.33</b>	<b>10</b>	<b>3,978.53</b>	<b>10</b>	<b>3,608.34</b>	<b>10</b>	<b>3,231.80</b>	<b>10</b>	<b>2,853.67</b>	<b>10</b>	<b>2,475.45</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.75	1/4	4,325.12	1/4	3,970.97	1/4	3,600.50	1/4	3,223.94	1/4	2,845.79	1/4	2,467.57		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,655.88	1/2	4,317.90	1/2	3,963.41	1/2	3,592.65	1/2	3,216.09	1/2	2,837.91	1/2	2,459.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,649.01	3/4	4,310.69	3/4	3,955.85	3/4	3,584.81	3/4	3,208.23	3/4	2,830.03	3/4	2,451.81		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,642.13</b>	<b>11</b>	<b>4,303.47</b>	<b>11</b>	<b>3,948.29</b>	<b>11</b>	<b>3,576.97</b>	<b>11</b>	<b>3,200.37</b>	<b>11</b>	<b>2,822.15</b>	<b>11</b>	<b>2,443.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,635.24	1/4	4,296.23	1/4	3,940.70	1/4	3,569.12	1/4	3,192.49	1/4	2,814.27	1/4	2,436.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,961.07	1/2	4,628.34	1/2	4,288.98	1/2	3,933.11	1/2	3,561.28	1/2	3,184.61	1/2	2,806.39	1/2	2,428.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,955.69	3/4	4,621.44	3/4	4,281.74	3/4	3,925.53	3/4	3,553.43	3/4	3,176.73	3/4	2,798.51	3/4	2,420.30

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "KIRBY 28178"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,412.42	0	2,034.20	0	1,655.99	0	1,279.21	0	901.72	0	523.55	0	176.28	0		0		0	
1/4	2,404.54	1/4	2,026.32	1/4	1,648.11	1/4	1,271.38	1/4	893.84	1/4	515.73	1/4	169.76	1/4	1/4		1/4		1/4
1/2	2,396.66	1/2	2,018.44	1/2	1,640.23	1/2	1,263.55	1/2	885.96	1/2	507.91	1/2	163.24	1/2	1/2		1/2		1/2
3/4	2,388.78	3/4	2,010.56	3/4	1,632.35	3/4	1,255.72	3/4	878.08	3/4	500.09	3/4	156.72	3/4	3/4		3/4		3/4
1	2,380.90	1	2,002.68	1	1,624.47	1	1,247.89	1	870.20	1	492.27	1	150.20	1	1		1		1
1/4	2,373.02	1/4	1,994.80	1/4	1,616.59	1/4	1,240.06	1/4	862.32	1/4	484.54	1/4	143.79	1/4	1/4		1/4		1/4
1/2	2,365.14	1/2	1,986.92	1/2	1,608.71	1/2	1,232.23	1/2	854.44	1/2	476.81	1/2	137.38	1/2	1/2		1/2		1/2
3/4	2,357.26	3/4	1,979.04	3/4	1,600.83	3/4	1,224.40	3/4	846.56	3/4	469.08	3/4	130.98	3/4	3/4		3/4		3/4
2	2,349.38	2	1,971.17	2	1,592.95	2	1,216.57	2	838.68	2	461.35	2	124.57	2	2		2		2
1/4	2,341.50	1/4	1,963.29	1/4	1,585.07	1/4	1,208.74	1/4	830.80	1/4	453.73	1/4	118.28	1/4	1/4		1/4		1/4
1/2	2,333.62	1/2	1,955.41	1/2	1,577.19	1/2	1,200.91	1/2	822.92	1/2	446.11	1/2	112.00	1/2	1/2		1/2		1/2
3/4	2,325.74	3/4	1,947.53	3/4	1,569.31	3/4	1,193.08	3/4	815.04	3/4	438.49	3/4	105.71	3/4	3/4		3/4		3/4
3	2,317.86	3	1,939.65	3	1,561.43	3	1,185.25	3	807.16	3	430.87	3	99.43	3	3		3		3
1/4	2,309.98	1/4	1,931.77	1/4	1,553.56	1/4	1,177.40	1/4	799.29	1/4	423.36	1/4	93.27	1/4	1/4		1/4		1/4
1/2	2,302.10	1/2	1,923.89	1/2	1,545.69	1/2	1,169.55	1/2	791.41	1/2	415.85	1/2	87.12	1/2	1/2		1/2		1/2
3/4	2,294.22	3/4	1,916.01	3/4	1,537.83	3/4	1,161.70	3/4	783.53	3/4	408.34	3/4	80.96	3/4	3/4		3/4		3/4
4	2,286.35	4	1,908.13	4	1,529.96	4	1,153.85	4	775.65	4	400.83	4	74.81	4	4		4		4
1/4	2,278.47	1/4	1,900.25	1/4	1,522.11	1/4	1,145.97	1/4	767.77	1/4	393.43	1/4	68.79	1/4	1/4		1/4		1/4
1/2	2,270.59	1/2	1,892.37	1/2	1,514.26	1/2	1,138.10	1/2	759.89	1/2	386.03	1/2	62.78	1/2	1/2		1/2		1/2
3/4	2,262.71	3/4	1,884.49	3/4	1,506.41	3/4	1,130.22	3/4	752.01	3/4	378.63	3/4	56.76	3/4	3/4		3/4		3/4
5	2,254.83	5	1,876.61	5	1,498.56	5	1,122.34	5	744.13	5	371.23	5	50.75	5	5		5		5
1/4	2,246.95	1/4	1,868.73	1/4	1,490.71	1/4	1,114.46	1/4	736.25	1/4	363.94	1/4	45.33	1/4	1/4		1/4		1/4
1/2	2,239.07	1/2	1,860.85	1/2	1,482.87	1/2	1,106.58	1/2	728.37	1/2	356.65	1/2	39.91	1/2	1/2		1/2		1/2
3/4	2,231.19	3/4	1,852.97	3/4	1,475.02	3/4	1,098.70	3/4	720.49	3/4	349.36	3/4	34.49	3/4	3/4		3/4		3/4
6	2,223.31	6	1,845.09	6	1,467.18	6	1,090.82	6	712.61	6	342.07	6	29.06	6	6		6		6
1/4	2,215.43	1/4	1,837.21	1/4	1,459.34	1/4	1,082.94	1/4	704.73	1/4	334.89	1/4	25.10	1/4	1/4		1/4		1/4
1/2	2,207.55	1/2	1,829.33	1/2	1,451.50	1/2	1,075.06	1/2	696.85	1/2	327.71	1/2	21.13	1/2	1/2		1/2		1/2
3/4	2,199.67	3/4	1,821.45	3/4	1,443.66	3/4	1,067.18	3/4	688.98	3/4	320.53	3/4	17.16	3/4	3/4		3/4		3/4
7	2,191.79	7	1,813.58	7	1,435.83	7	1,059.30	7	681.10	7	313.34	7	13.20	7	7		7		7
1/4	2,183.91	1/4	1,805.70	1/4	1,427.99	1/4	1,051.42	1/4	673.22	1/4	306.27	1/4		1/4	1/4		1/4		1/4
1/2	2,176.03	1/2	1,797.82	1/2	1,420.16	1/2	1,043.54	1/2	665.34	1/2	299.20	1/2		1/2	1/2		1/2		1/2
3/4	2,168.15	3/4	1,789.94	3/4	1,412.32	3/4	1,035.66	3/4	657.46	3/4	292.13	3/4		3/4	3/4		3/4		3/4
8	2,160.27	8	1,782.06	8	1,404.49	8	1,027.79	8	649.58	8	285.06	8		8	8		8		8
1/4	2,152.39	1/4	1,774.18	1/4	1,396.66	1/4	1,019.91	1/4	641.70	1/4	278.09	1/4		1/4	1/4		1/4		1/4
1/2	2,144.51	1/2	1,766.30	1/2	1,388.83	1/2	1,012.03	1/2	633.82	1/2	271.13	1/2		1/2	1/2		1/2		1/2
3/4	2,136.63	3/4	1,758.42	3/4	1,381.00	3/4	1,004.15	3/4	625.94	3/4	264.17	3/4		3/4	3/4		3/4		3/4
9	2,128.76	9	1,750.54	9	1,373.17	9	996.27	9	618.06	9	257.21	9		9	9		9		9
1/4	2,120.88	1/4	1,742.66	1/4	1,365.34	1/4	988.39	1/4	610.18	1/4	250.35	1/4		1/4	1/4		1/4		1/4
1/2	2,113.00	1/2	1,734.78	1/2	1,357.51	1/2	980.51	1/2	602.30	1/2	243.50	1/2		1/2	1/2		1/2		1/2
3/4	2,105.12	3/4	1,726.90	3/4	1,349.68	3/4	972.63	3/4	594.42	3/4	236.65	3/4		3/4	3/4		3/4		3/4
10	2,097.24	10	1,719.02	10	1,341.85	10	964.75	10	586.54	10	229.79	10		10	10		10		10
1/4	2,089.36	1/4	1,711.14	1/4	1,334.02	1/4	956.87	1/4	578.67	1/4	223.05	1/4		1/4	1/4		1/4		1/4
1/2	2,081.48	1/2	1,703.26	1/2	1,326.19	1/2	948.99	1/2	570.79	1/2	216.31	1/2		1/2	1/2		1/2		1/2
3/4	2,073.60	3/4	1,695.38	3/4	1,318.36	3/4	941.11	3/4	562.91	3/4	209.56	3/4		3/4	3/4		3/4		3/4
11	2,065.72	11	1,687.50	11	1,310.53	11	933.23	11	555.03	11	202.82	11		11	11		11		11
1/4	2,057.84	1/4	1,679.62	1/4	1,302.70	1/4	925.35	1/4	547.16	1/4	196.19	1/4		1/4	1/4		1/4		1/4
1/2	2,049.96	1/2	1,671.74	1/2	1,294.87	1/2	917.47	1/2	539.29	1/2	189.55	1/2		1/2	1/2		1/2		1/2
3/4	2,042.08	3/4	1,663.86	3/4	1,287.04	3/4	909.60	3/4	531.42	3/4	182.92	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28178"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,956.33	0	4,622.17	0	4,282.54	0	3,926.41	0	3,554.40	0	3,177.78	0	2,799.65
1/4		1/4		1/4		1/4	4,950.95	1/4	4,615.27	1/4	4,275.29	1/4	3,918.82	1/4	3,546.55	1/4	3,169.90	1/4	2,791.77
1/2		1/2		1/2		1/2	4,944.27	1/2	4,608.35	1/2	4,268.03	1/2	3,911.21	1/2	3,538.71	1/2	3,162.02	1/2	2,783.89
3/4		3/4		3/4		3/4	4,937.59	3/4	4,601.42	3/4	4,260.76	3/4	3,903.59	3/4	3,530.87	3/4	3,154.15	3/4	2,776.02
1		1		1		1	4,930.91	1	4,594.50	1	4,253.49	1	3,895.97	1	3,523.03	1	3,146.27	1	2,768.14
1/4		1/4		1/4		1/4	4,924.23	1/4	4,587.58	1/4	4,246.22	1/4	3,888.36	1/4	3,515.18	1/4	3,138.39	1/4	2,760.26
1/2		1/2		1/2		1/2	4,916.62	1/2	4,580.63	1/2	4,238.93	1/2	3,880.72	1/2	3,507.34	1/2	3,130.51	1/2	2,752.38
3/4		3/4		3/4		3/4	4,909.01	3/4	4,573.67	3/4	4,231.63	3/4	3,873.08	3/4	3,499.50	3/4	3,122.64	3/4	2,744.51
2		2		2		2	4,901.39	2	4,566.72	2	4,224.34	2	3,865.44	2	3,491.65	2	3,114.76	2	2,736.63
1/4		1/4		1/4		1/4	4,893.78	1/4	4,559.77	1/4	4,217.04	1/4	3,857.80	1/4	3,483.81	1/4	3,106.88	1/4	2,728.75
1/2		1/2		1/2		1/2	4,885.94	1/2	4,552.79	1/2	4,209.71	1/2	3,850.13	1/2	3,475.97	1/2	3,099.00	1/2	2,720.87
3/4		3/4		3/4		3/4	4,878.10	3/4	4,545.81	3/4	4,202.39	3/4	3,842.46	3/4	3,468.13	3/4	3,091.12	3/4	2,712.99
3		3		3		3	4,870.25	3	4,538.83	3	4,195.06	3	3,834.79	3	3,460.28	3	3,083.25	3	2,705.12
1/4		1/4		1/4		1/4	4,862.41	1/4	4,531.85	1/4	4,187.74	1/4	3,827.12	1/4	3,452.44	1/4	3,075.37	1/4	2,697.24
1/2		1/2		1/2		1/2	4,855.00	1/2	4,524.84	1/2	4,180.39	1/2	3,819.42	1/2	3,444.60	1/2	3,067.49	1/2	2,689.36
3/4		3/4		3/4		3/4	4,847.59	3/4	4,517.82	3/4	4,173.03	3/4	3,811.73	3/4	3,436.75	3/4	3,059.61	3/4	2,681.48
4		4		4		4	4,840.18	4	4,510.81	4	4,165.68	4	3,804.03	4	3,428.91	4	3,051.74	4	2,673.61
1/4		1/4		1/4		1/4	4,832.77	1/4	4,503.80	1/4	4,158.32	1/4	3,796.33	1/4	3,421.07	1/4	3,043.86	1/4	2,665.73
1/2		1/2		1/2		1/2	4,826.08	1/2	4,496.77	1/2	4,150.94	1/2	3,788.60	1/2	3,413.23	1/2	3,035.98	1/2	2,657.85
3/4		3/4		3/4		3/4	4,819.38	3/4	4,489.73	3/4	4,143.56	3/4	3,780.88	3/4	3,405.38	3/4	3,028.10	3/4	2,649.97
5		5		5		5	4,812.69	5	4,482.69	5	4,136.17	5	3,773.15	5	3,397.54	5	3,020.23	5	2,642.10
1/4		1/4		1/4		1/4	4,805.99	1/4	4,475.65	1/4	4,128.79	1/4	3,765.42	1/4	3,389.70	1/4	3,012.35	1/4	2,634.22
1/2		1/2		1/2		1/2	4,799.27	1/2	4,468.58	1/2	4,121.38	1/2	3,757.67	1/2	3,381.86	1/2	3,004.47	1/2	2,626.34
3/4		3/4		3/4		3/4	4,792.54	3/4	4,461.51	3/4	4,113.97	3/4	3,749.91	3/4	3,374.01	3/4	2,996.59	3/4	2,618.46
6		6		6		6	4,785.82	6	4,454.44	6	4,106.56	6	3,742.16	6	3,366.17	6	2,988.71	6	2,610.58
1/4		1/4		1/4		1/4	4,779.09	1/4	4,447.38	1/4	4,099.15	1/4	3,734.40	1/4	3,358.33	1/4	2,980.84	1/4	2,602.71
1/2		1/2		1/2		1/2	4,772.34	1/2	4,440.28	1/2	4,091.71	1/2	3,726.62	1/2	3,350.48	1/2	2,972.96	1/2	2,594.83
3/4		3/4		3/4		3/4	4,765.59	3/4	4,433.18	3/4	4,084.26	3/4	3,718.83	3/4	3,342.64	3/4	2,965.08	3/4	2,586.95
7		7		7		7	4,758.83	7	4,426.09	7	4,076.82	7	3,711.05	7	3,334.80	7	2,957.20	7	2,579.07
1/4		1/4		1/4		1/4	4,752.08	1/4	4,418.99	1/4	4,069.38	1/4	3,703.26	1/4	3,326.96	1/4	2,949.33	1/4	2,571.20
1/2		1/2		1/2		1/2	4,745.29	1/2	4,411.86	1/2	4,061.91	1/2	3,695.45	1/2	3,319.11	1/2	2,941.45	1/2	2,563.32
3/4		3/4		3/4		3/4	4,738.51	3/4	4,404.74	3/4	4,054.44	3/4	3,687.64	3/4	3,311.27	3/4	2,933.57	3/4	2,555.44
8		8		8		8	4,731.73	8	4,397.61	8	4,046.97	8	3,679.82	8	3,303.43	8	2,925.69	8	2,547.56
1/4		1/4		1/4		1/4	4,724.95	1/4	4,390.48	1/4	4,039.50	1/4	3,672.01	1/4	3,295.58	1/4	2,917.81	1/4	2,539.69
1/2		1/2		1/2		1/2	4,718.13	1/2	4,383.33	1/2	4,032.01	1/2	3,664.17	1/2	3,287.74	1/2	2,909.94	1/2	2,531.81
3/4		3/4		3/4		3/4	4,711.32	3/4	4,376.17	3/4	4,024.51	3/4	3,656.34	3/4	3,279.90	3/4	2,902.06	3/4	2,523.93
9		9		9		9	4,704.51	9	4,369.02	9	4,017.01	9	3,648.50	9	3,272.06	9	2,894.18	9	2,516.05
1/4		1/4		1/4		1/4	4,697.70	1/4	4,361.86	1/4	4,009.51	1/4	3,640.67	1/4	3,264.21	1/4	2,886.30	1/4	2,508.17
1/2		1/2		1/2		1/2	4,690.86	1/2	4,354.68	1/2	4,001.98	1/2	3,632.82	1/2	3,256.37	1/2	2,878.43	1/2	2,500.30
3/4		3/4		3/4		3/4	4,684.02	3/4	4,347.49	3/4	3,994.45	3/4	3,624.98	3/4	3,248.53	3/4	2,870.55	3/4	2,492.42
10		10		10		10	4,677.18	10	4,340.31	10	3,986.92	10	3,617.14	10	3,240.68	10	2,862.67	10	2,484.54
1/4		1/4		1/4		1/4	4,670.33	1/4	4,333.12	1/4	3,979.40	1/4	3,609.30	1/4	3,232.84	1/4	2,854.79	1/4	2,476.66
1/2		1/2		1/2		1/2	4,663.46	1/2	4,325.91	1/2	3,971.84	1/2	3,601.45	1/2	3,224.98	1/2	2,846.92	1/2	2,468.79
3/4		3/4		3/4		3/4	4,656.59	3/4	4,318.69	3/4	3,964.28	3/4	3,593.61	3/4	3,217.13	3/4	2,839.04	3/4	2,460.91
11		11		11		11	4,649.72	11	4,311.48	11	3,956.72	11	3,585.77	11	3,209.27	11	2,831.16	11	2,453.03
1/4		1/4		1/4		1/4	4,642.85	1/4	4,304.27	1/4	3,949.17	1/4	3,577.93	1/4	3,201.41	1/4	2,823.28	1/4	2,445.15
1/2		1/2		1/2		1/2	4,635.96	1/2	4,297.02	1/2	3,941.58	1/2	3,570.08	1/2	3,193.53	1/2	2,815.40	1/2	2,437.28
3/4		3/4		3/4		3/4	4,961.71	3/4	4,629.06	3/4	4,289.78	3/4	3,933.99	3/4	3,562.24	3/4	3,185.66	3/4	2,429.40

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" 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 "KIRBY 28178"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,421.52	0	2,043.39	0	1,665.26	0	1,287.13	0	909.30	0	531.30	0	182.88	0		0		0	
1/4	2,413.64	1/4	2,035.51	1/4	1,657.38	1/4	1,279.25	1/4	901.43	1/4	523.43	1/4	176.24	1/4	1/4	1/4		1/4	1/4
1/2	2,405.76	1/2	2,027.63	1/2	1,649.51	1/2	1,271.38	1/2	893.57	1/2	515.61	1/2	169.72	1/2	1/2	1/2		1/2	1/2
3/4	2,397.89	3/4	2,019.76	3/4	1,641.63	3/4	1,263.50	3/4	885.70	3/4	507.79	3/4	163.20	3/4	3/4	3/4		3/4	3/4
1	2,390.01	1	2,011.88	1	1,633.75	1	1,255.62	1	877.84	1	499.97	1	156.68	1	1	1		1	1
1/4	2,382.13	1/4	2,004.00	1/4	1,625.87	1/4	1,247.74	1/4	869.97	1/4	492.15	1/4	150.16	1/4	1/4	1/4		1/4	1/4
1/2	2,374.25	1/2	1,996.12	1/2	1,617.99	1/2	1,239.86	1/2	862.10	1/2	484.43	1/2	143.76	1/2	1/2	1/2		1/2	1/2
3/4	2,366.38	3/4	1,988.25	3/4	1,610.12	3/4	1,231.99	3/4	854.23	3/4	476.70	3/4	137.35	3/4	3/4	3/4		3/4	3/4
2	2,358.50	2	1,980.37	2	1,602.24	2	1,224.11	2	846.36	2	468.97	2	130.95	2	2	2		2	2
1/4	2,350.62	1/4	1,972.49	1/4	1,594.36	1/4	1,216.23	1/4	838.49	1/4	461.25	1/4	124.54	1/4	1/4	1/4		1/4	1/4
1/2	2,342.74	1/2	1,964.61	1/2	1,586.48	1/2	1,208.35	1/2	830.61	1/2	453.63	1/2	118.26	1/2	1/2	1/2		1/2	1/2
3/4	2,334.87	3/4	1,956.74	3/4	1,578.61	3/4	1,200.48	3/4	822.74	3/4	446.01	3/4	111.97	3/4	3/4	3/4		3/4	3/4
3	2,326.99	3	1,948.86	3	1,570.73	3	1,192.60	3	814.86	3	438.39	3	105.69	3	3	3		3	3
1/4	2,319.11	1/4	1,940.98	1/4	1,562.85	1/4	1,184.72	1/4	806.98	1/4	430.78	1/4	99.41	1/4	1/4	1/4		1/4	1/4
1/2	2,311.23	1/2	1,933.10	1/2	1,554.97	1/2	1,176.84	1/2	799.10	1/2	423.27	1/2	93.25	1/2	1/2	1/2		1/2	1/2
3/4	2,303.35	3/4	1,925.22	3/4	1,547.10	3/4	1,168.97	3/4	791.23	3/4	415.76	3/4	87.10	3/4	3/4	3/4		3/4	3/4
4	2,295.48	4	1,917.35	4	1,539.22	4	1,161.09	4	783.35	4	408.25	4	80.94	4	4	4		4	4
1/4	2,287.60	1/4	1,909.47	1/4	1,531.34	1/4	1,153.21	1/4	775.47	1/4	400.74	1/4	74.79	1/4	1/4	1/4		1/4	1/4
1/2	2,279.72	1/2	1,901.59	1/2	1,523.46	1/2	1,145.33	1/2	767.59	1/2	393.34	1/2	68.78	1/2	1/2	1/2		1/2	1/2
3/4	2,271.84	3/4	1,893.71	3/4	1,515.58	3/4	1,137.45	3/4	759.72	3/4	385.95	3/4	62.76	3/4	3/4	3/4		3/4	3/4
5	2,263.97	5	1,885.84	5	1,507.71	5	1,129.58	5	751.84	5	378.55	5	56.75	5	5	5		5	5
1/4	2,256.09	1/4	1,877.96	1/4	1,499.83	1/4	1,121.70	1/4	743.96	1/4	371.15	1/4	50.74	1/4	1/4	1/4		1/4	1/4
1/2	2,248.21	1/2	1,870.08	1/2	1,491.95	1/2	1,113.83	1/2	736.08	1/2	363.86	1/2	45.32	1/2	1/2	1/2		1/2	1/2
3/4	2,240.33	3/4	1,862.20	3/4	1,484.07	3/4	1,105.95	3/4	728.21	3/4	356.57	3/4	39.90	3/4	3/4	3/4		3/4	3/4
6	2,232.46	6	1,854.33	6	1,476.20	6	1,098.08	6	720.33	6	349.28	6	34.48	6	6	6		6	6
1/4	2,224.58	1/4	1,846.45	1/4	1,468.32	1/4	1,090.21	1/4	712.45	1/4	341.99	1/4	29.06	1/4	1/4	1/4		1/4	1/4
1/2	2,216.70	1/2	1,838.57	1/2	1,460.44	1/2	1,082.34	1/2	704.57	1/2	334.81	1/2	25.09	1/2	1/2	1/2		1/2	1/2
3/4	2,208.82	3/4	1,830.69	3/4	1,452.56	3/4	1,074.48	3/4	696.70	3/4	327.63	3/4	21.13	3/4	3/4	3/4		3/4	3/4
7	2,200.94	7	1,822.81	7	1,444.69	7	1,066.61	7	688.82	7	320.45	7	17.16	7	7	7		7	7
1/4	2,193.07	1/4	1,814.94	1/4	1,436.81	1/4	1,058.74	1/4	680.94	1/4	313.27	1/4	13.19	1/4	1/4	1/4		1/4	1/4
1/2	2,185.19	1/2	1,807.06	1/2	1,428.93	1/2	1,050.88	1/2	673.06	1/2	306.20	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,177.31	3/4	1,799.18	3/4	1,421.05	3/4	1,043.01	3/4	665.19	3/4	299.13	3/4		3/4	3/4	3/4		3/4	3/4
8	2,169.43	8	1,791.30	8	1,413.17	8	1,035.15	8	657.31	8	292.06	8		8	8	8		8	8
1/4	2,161.56	1/4	1,783.43	1/4	1,405.30	1/4	1,027.28	1/4	649.43	1/4	284.99	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,153.68	1/2	1,775.55	1/2	1,397.42	1/2	1,019.42	1/2	641.55	1/2	278.03	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,145.80	3/4	1,767.67	3/4	1,389.54	3/4	1,011.55	3/4	633.68	3/4	271.07	3/4		3/4	3/4	3/4		3/4	3/4
9	2,137.92	9	1,759.79	9	1,381.66	9	1,003.69	9	625.80	9	264.11	9		9	9	9		9	9
1/4	2,130.04	1/4	1,751.92	1/4	1,373.79	1/4	995.82	1/4	617.92	1/4	257.15	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,122.17	1/2	1,744.04	1/2	1,365.91	1/2	987.95	1/2	610.04	1/2	250.30	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,114.29	3/4	1,736.16	3/4	1,358.03	3/4	980.09	3/4	602.17	3/4	243.44	3/4		3/4	3/4	3/4		3/4	3/4
10	2,106.41	10	1,728.28	10	1,350.15	10	972.22	10	594.29	10	236.59	10		10	10	10		10	10
1/4	2,098.53	1/4	1,720.40	1/4	1,342.27	1/4	964.36	1/4	586.41	1/4	229.74	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,090.66	1/2	1,712.53	1/2	1,334.40	1/2	956.49	1/2	578.53	1/2	223.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,082.78	3/4	1,704.65	3/4	1,326.52	3/4	948.63	3/4	570.66	3/4	216.26	3/4		3/4	3/4	3/4		3/4	3/4
11	2,074.90	11	1,696.77	11	1,318.64	11	940.76	11	562.78	11	209.52	11		11	11	11		11	11
1/4	2,067.02	1/4	1,688.89	1/4	1,310.76	1/4	932.89	1/4	554.90	1/4	202.77	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,059.15	1/2	1,681.02	1/2	1,302.89	1/2	925.03	1/2	547.03	1/2	196.14	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,051.27	3/4	1,673.14	3/4	1,295.01	3/4	917.16	3/4	539.17	3/4	189.51	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28178"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	IN	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		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	
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
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	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" 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 "KIRBY 28178"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,357.40		1,998.40		1,639.40		1,289.31		944.54		586.92		227.93								
1/4	2,349.92	1/4	1,990.92	1/4	1,631.92	1/4	1,282.12	1/4	937.37	1/4	579.44	1/4	220.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,342.44	1/2	1,983.44	1/2	1,624.44	1/2	1,274.92	1/2	930.19	1/2	571.96	1/2	212.97	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,334.96	3/4	1,975.96	3/4	1,616.97	3/4	1,267.73	3/4	922.90	3/4	564.48	3/4	205.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,327.48	1	1,968.48	1	1,609.49	1	1,260.53	1	915.61	1	557.00	1	198.02	1	1	1	1	1	1	1	1
1/4	2,320.00	1/4	1,961.00	1/4	1,602.01	1/4	1,253.33	1/4	908.32	1/4	549.52	1/4	190.54	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,312.52	1/2	1,953.52	1/2	1,594.53	1/2	1,246.14	1/2	901.03	1/2	542.04	1/2	183.07	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,305.04	3/4	1,946.05	3/4	1,587.05	3/4	1,238.94	3/4	893.55	3/4	534.56	3/4	175.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,297.56	2	1,938.57	2	1,579.57	2	1,231.75	2	886.07	2	527.09	2	168.13	2	2	2	2	2	2	2	2
1/4	2,290.08	1/4	1,931.09	1/4	1,572.09	1/4	1,224.55	1/4	878.59	1/4	519.61	1/4	160.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,282.60	1/2	1,923.61	1/2	1,564.61	1/2	1,217.35	1/2	871.12	1/2	512.13	1/2	153.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,275.13	3/4	1,916.13	3/4	1,557.13	3/4	1,210.16	3/4	863.64	3/4	504.65	3/4	145.72	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,267.65	3	1,908.65	3	1,549.65	3	1,202.97	3	856.16	3	497.17	3	138.27	3	3	3	3	3	3	3	3
1/4	2,260.17	1/4	1,901.17	1/4	1,542.17	1/4	1,195.78	1/4	848.68	1/4	489.69	1/4	130.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,252.69	1/2	1,893.69	1/2	1,534.69	1/2	1,188.59	1/2	841.20	1/2	482.21	1/2	123.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,245.21	3/4	1,886.21	3/4	1,527.32	3/4	1,181.40	3/4	833.72	3/4	474.73	3/4	115.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,237.73	4	1,878.73	4	1,519.95	4	1,174.22	4	826.24	4	467.25	4	108.47	4	4	4	4	4	4	4	4
1/4	2,230.25	1/4	1,871.25	1/4	1,512.57	1/4	1,167.04	1/4	818.76	1/4	459.78	1/4	101.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,222.77	1/2	1,863.78	1/2	1,505.20	1/2	1,159.85	1/2	811.28	1/2	452.30	1/2	93.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,215.29	3/4	1,856.30	3/4	1,498.00	3/4	1,152.67	3/4	803.81	3/4	444.82	3/4	86.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,207.81	5	1,848.82	5	1,490.81	5	1,145.49	5	796.33	5	437.34	5	78.76	5	5	5	5	5	5	5	5
1/4	2,200.33	1/4	1,841.34	1/4	1,483.61	1/4	1,138.31	1/4	788.85	1/4	429.86	1/4	71.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,192.86	1/2	1,833.86	1/2	1,476.42	1/2	1,131.13	1/2	781.37	1/2	422.38	1/2	63.94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,185.38	3/4	1,826.38	3/4	1,469.22	3/4	1,123.95	3/4	773.89	3/4	414.90	3/4	56.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,177.90	6	1,818.90	6	1,462.02	6	1,116.77	6	766.41	6	407.42	6	50.04	6	6	6	6	6	6	6	6
1/4	2,170.42	1/4	1,811.42	1/4	1,454.83	1/4	1,109.60	1/4	758.93	1/4	399.94	1/4	43.09	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,162.94	1/2	1,803.94	1/2	1,447.63	1/2	1,102.42	1/2	751.45	1/2	392.47	1/2	36.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,155.46	3/4	1,796.46	3/4	1,440.44	3/4	1,095.25	3/4	743.97	3/4	384.99	3/4	30.84	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,147.98	7	1,788.98	7	1,433.24	7	1,088.07	7	736.50	7	377.51	7	25.55	7	7	7	7	7	7	7	7
1/4	2,140.50	1/4	1,781.51	1/4	1,426.04	1/4	1,080.89	1/4	729.02	1/4	370.03	1/4	20.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,133.02	1/2	1,774.03	1/2	1,418.85	1/2	1,073.72	1/2	721.54	1/2	362.55	1/2	14.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,125.54	3/4	1,766.55	3/4	1,411.65	3/4	1,066.54	3/4	714.06	3/4	355.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,118.06	8	1,759.07	8	1,404.45	8	1,059.36	8	706.58	8	347.59	8		8	8	8	8	8	8	8	8
1/4	2,110.59	1/4	1,751.59	1/4	1,397.26	1/4	1,052.19	1/4	699.10	1/4	340.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,103.11	1/2	1,744.11	1/2	1,390.06	1/2	1,045.01	1/2	691.62	1/2	332.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,095.63	3/4	1,736.63	3/4	1,382.87	3/4	1,037.84	3/4	684.14	3/4	325.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,088.15	9	1,729.15	9	1,375.67	9	1,030.66	9	676.66	9	317.68	9		9	9	9	9	9	9	9	9
1/4	2,080.67	1/4	1,721.67	1/4	1,368.47	1/4	1,023.48	1/4	669.19	1/4	310.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,073.19	1/2	1,714.19	1/2	1,361.28	1/2	1,016.31	1/2	661.71	1/2	302.72	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,065.71	3/4	1,706.71	3/4	1,354.08	3/4	1,009.13	3/4	654.23	3/4	295.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	2,058.23	10	1,699.24	10	1,346.88	10	1,001.95	10	646.75	10	287.76	10		10	10	10	10	10	10	10	10
1/4	2,050.75	1/4	1,691.76	1/4	1,339.69	1/4	994.78	1/4	639.27	1/4	280.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,043.27	1/2	1,684.28	1/2	1,332.49	1/2	987.60	1/2	631.79	1/2	272.80	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,035.79	3/4	1,676.80	3/4	1,325.30	3/4	980.42	3/4	624.31	3/4	265.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	2,028.32	11	1,669.32	11	1,318.10	11	973.25	11	616.83	11	257.85	11		11	11	11	11	11	11	11	11
1/4	2,020.84	1/4	1,661.84	1/4	1,310.90	1/4	966.07	1/4	609.35	1/4	250.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,013.36	1/2	1,654.36	1/2	1,303.71	1/2	958.90	1/2	601.87	1/2	242.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,005.88	3/4	1,646.88	3/4	1,296.51	3/4	951.72	3/4	594.40	3/4	235.41	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: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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





# BARGE "KIRBY 28178"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

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	IN	0
							4,785.13		4,466.63		4,142.84		3,803.93		3,450.47		3,092.79		2,733.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,780.02	1/4	4,460.05	1/4	4,135.94	1/4	3,796.72	1/4	3,443.02	1/4	3,085.31	1/4	2,726.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,773.68	1/2	4,453.44	1/2	4,129.02	1/2	3,789.48	1/2	3,435.57	1/2	3,077.83	1/2	2,718.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,767.34	3/4	4,446.84	3/4	4,122.10	3/4	3,782.24	3/4	3,428.12	3/4	3,070.35	3/4	2,711.26		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,440.99</b>	<b>1</b>	<b>4,115.18</b>	<b>1</b>	<b>3,774.99</b>	<b>1</b>	<b>3,420.67</b>	<b>1</b>	<b>3,062.87</b>	<b>1</b>	<b>2,703.78</b>				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,754.65	1/4	4,433.63	1/4	4,108.26	1/4	3,767.75	1/4	3,413.22	1/4	3,055.39	1/4	2,696.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,747.42	1/2	4,426.99	1/2	4,101.31	1/2	3,760.49	1/2	3,405.78	1/2	3,047.91	1/2	2,688.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,740.19	3/4	4,420.36	3/4	4,094.36	3/4	3,753.23	3/4	3,398.33	3/4	3,040.43	3/4	2,681.34		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,732.97</b>	<b>2</b>	<b>4,413.73</b>	<b>2</b>	<b>4,087.41</b>	<b>2</b>	<b>3,745.96</b>	<b>2</b>	<b>3,390.88</b>	<b>2</b>	<b>3,032.95</b>	<b>2</b>	<b>2,673.86</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,725.74	1/4	4,407.10	1/4	4,080.47	1/4	3,738.70	1/4	3,383.43	1/4	3,025.46	1/4	2,666.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.29	1/2	4,400.44	1/2	4,073.49	1/2	3,731.41	1/2	3,375.98	1/2	3,017.98	1/2	2,658.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,710.84	3/4	4,393.78	3/4	4,066.52	3/4	3,724.12	3/4	3,368.53	3/4	3,010.50	3/4	2,651.41		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,703.39</b>	<b>3</b>	<b>4,387.12</b>	<b>3</b>	<b>4,059.54</b>	<b>3</b>	<b>3,716.83</b>	<b>3</b>	<b>3,361.08</b>	<b>3</b>	<b>3,003.02</b>	<b>3</b>	<b>2,643.93</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,695.94	1/4	4,380.46	1/4	4,052.57	1/4	3,709.54	1/4	3,353.63	1/4	2,995.54	1/4	2,636.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,688.89	1/2	4,373.78	1/2	4,045.57	1/2	3,702.23	1/2	3,346.18	1/2	2,988.06	1/2	2,628.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,681.84	3/4	4,367.09	3/4	4,038.57	3/4	3,694.91	3/4	3,338.74	3/4	2,980.58	3/4	2,621.49		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,674.79</b>	<b>4</b>	<b>4,360.40</b>	<b>4</b>	<b>4,031.57</b>	<b>4</b>	<b>3,687.60</b>	<b>4</b>	<b>3,331.29</b>	<b>4</b>	<b>2,973.10</b>	<b>4</b>	<b>2,614.01</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,667.74	1/4	4,353.72	1/4	4,024.57	1/4	3,680.28	1/4	3,323.84	1/4	2,965.62	1/4	2,606.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,661.34	1/2	4,347.01	1/2	4,017.54	1/2	3,672.94	1/2	3,316.39	1/2	2,958.14	1/2	2,599.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,654.94	3/4	4,340.29	3/4	4,010.51	3/4	3,665.60	3/4	3,308.94	3/4	2,950.65	3/4	2,591.57		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,648.54</b>	<b>5</b>	<b>4,333.58</b>	<b>5</b>	<b>4,003.48</b>	<b>5</b>	<b>3,658.25</b>	<b>5</b>	<b>3,301.49</b>	<b>5</b>	<b>2,943.17</b>	<b>5</b>	<b>2,584.09</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.15	1/4	4,326.87	1/4	3,996.46	1/4	3,650.91	1/4	3,294.04	1/4	2,935.69	1/4	2,576.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.72	1/2	4,320.13	1/2	3,989.40	1/2	3,643.54	1/2	3,286.59	1/2	2,928.21	1/2	2,569.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,629.30	3/4	4,313.39	3/4	3,982.35	3/4	3,636.17	3/4	3,279.15	3/4	2,920.73	3/4	2,561.64		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,622.88</b>	<b>6</b>	<b>4,306.65</b>	<b>6</b>	<b>3,975.30</b>	<b>6</b>	<b>3,628.81</b>	<b>6</b>	<b>3,271.70</b>	<b>6</b>	<b>2,913.25</b>	<b>6</b>	<b>2,554.16</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,616.45	1/4	4,299.92	1/4	3,968.24	1/4	3,621.44	1/4	3,264.25	1/4	2,905.77	1/4	2,546.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,610.00	1/2	4,293.15	1/2	3,961.16	1/2	3,614.04	1/2	3,256.80	1/2	2,898.29	1/2	2,539.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,603.55	3/4	4,286.38	3/4	3,954.08	3/4	3,606.65	3/4	3,249.35	3/4	2,890.81	3/4	2,531.72		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,597.10</b>	<b>7</b>	<b>4,279.62</b>	<b>7</b>	<b>3,947.00</b>	<b>7</b>	<b>3,599.25</b>	<b>7</b>	<b>3,241.90</b>	<b>7</b>	<b>2,883.33</b>	<b>7</b>	<b>2,524.24</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,590.65	1/4	4,272.85	1/4	3,939.92	1/4	3,591.86	1/4	3,234.45	1/4	2,875.84	1/4	2,516.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,584.17	1/2	4,266.06	1/2	3,932.82	1/2	3,584.43	1/2	3,227.00	1/2	2,868.36	1/2	2,509.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,577.69	3/4	4,259.27	3/4	3,925.71	3/4	3,577.01	3/4	3,219.56	3/4	2,860.88	3/4	2,501.79		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,571.22</b>	<b>8</b>	<b>4,252.48</b>	<b>8</b>	<b>3,918.60</b>	<b>8</b>	<b>3,569.59</b>	<b>8</b>	<b>3,212.11</b>	<b>8</b>	<b>2,853.40</b>	<b>8</b>	<b>2,494.31</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,564.74	1/4	4,245.68	1/4	3,911.50	1/4	3,562.17	1/4	3,204.66	1/4	2,845.92	1/4	2,486.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.24	1/2	4,238.87	1/2	3,904.36	1/2	3,554.73	1/2	3,197.21	1/2	2,838.44	1/2	2,479.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.73	3/4	4,232.05	3/4	3,897.23	3/4	3,547.29	3/4	3,189.76	3/4	2,830.96	3/4	2,471.87		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,545.23</b>	<b>9</b>	<b>4,225.23</b>	<b>9</b>	<b>3,890.09</b>	<b>9</b>	<b>3,539.85</b>	<b>9</b>	<b>3,182.31</b>	<b>9</b>	<b>2,823.48</b>	<b>9</b>	<b>2,464.39</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,538.72	1/4	4,218.41	1/4	3,882.96	1/4	3,532.40	1/4	3,174.86	1/4	2,816.00	1/4	2,456.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,532.19	1/2	4,211.57	1/2	3,875.80	1/2	3,524.96	1/2	3,167.41	1/2	2,808.52	1/2	2,449.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,525.66	3/4	4,204.72	3/4	3,868.64	3/4	3,517.51	3/4	3,159.96	3/4	2,801.03	3/4	2,441.95		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,519.13</b>	<b>10</b>	<b>4,197.87</b>	<b>10</b>	<b>3,861.48</b>	<b>10</b>	<b>3,510.06</b>	<b>10</b>	<b>3,152.52</b>	<b>10</b>	<b>2,793.55</b>	<b>10</b>	<b>2,434.47</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,512.60	1/4	4,191.03	1/4	3,854.32	1/4	3,502.61	1/4	3,145.07	1/4	2,786.07	1/4	2,426.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,506.04	1/2	4,184.16	1/2	3,847.13	1/2	3,495.16	1/2	3,137.61	1/2	2,778.59	1/2	2,419.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,499.49	3/4	4,177.28	3/4	3,839.95	3/4	3,487.71	3/4	3,130.15	3/4	2,771.11	3/4	2,412.02		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,492.93</b>	<b>11</b>	<b>4,170.41</b>	<b>11</b>	<b>3,832.76</b>	<b>11</b>	<b>3,480.26</b>	<b>11</b>	<b>3,122.69</b>	<b>11</b>	<b>2,763.63</b>	<b>11</b>	<b>2,404.54</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,486.37	1/4	4,163.54	1/4	3,825.57	1/4	3,472.81	1/4	3,115.24	1/4	2,756.15	1/4	2,397.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,479.79	1/2	4,156.64	1/2	3,818.36	1/2	3,465.37	1/2	3,107.76	1/2	2,748.67	1/2	2,389.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,473.21	3/4	4,149.74	3/4	3,811.14	3/4	3,457.92	3/4	3,100.28	3/4	2,741.19	3/4	2,382.10		

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" 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 "KIRBY 28178"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,374.62	0	2,015.53	0	1,656.44	0	1,297.35	0	938.56	0	579.58	0	220.51	0		0		0	
1/4	2,367.14	1/4	2,008.05	1/4	1,648.96	1/4	1,289.87	1/4	931.10	1/4	572.10	1/4	213.02	1/4	1/4		1/4		1/4
1/2	2,359.66	1/2	2,000.57	1/2	1,641.48	1/2	1,282.39	1/2	923.63	1/2	564.62	1/2	205.55	1/2	1/2		1/2		1/2
3/4	2,352.17	3/4	1,993.09	3/4	1,634.00	3/4	1,274.91	3/4	916.16	3/4	557.14	3/4	198.07	3/4	3/4		3/4		3/4
1	2,344.69	1	1,985.61	1	1,626.52	1	1,267.43	1	908.69	1	549.66	1	190.59	1	1		1		1
1/4	2,337.21	1/4	1,978.12	1/4	1,619.04	1/4	1,259.95	1/4	901.22	1/4	542.17	1/4	183.11	1/4	1/4		1/4		1/4
1/2	2,329.73	1/2	1,970.64	1/2	1,611.56	1/2	1,252.47	1/2	893.75	1/2	534.69	1/2	175.64	1/2	1/2		1/2		1/2
3/4	2,322.25	3/4	1,963.16	3/4	1,604.07	3/4	1,244.99	3/4	886.27	3/4	527.21	3/4	168.17	3/4	3/4		3/4		3/4
2	2,314.77	2	1,955.68	2	1,596.59	2	1,237.51	2	878.80	2	519.73	2	160.69	2	2		2		2
1/4	2,307.29	1/4	1,948.20	1/4	1,589.11	1/4	1,230.02	1/4	871.33	1/4	512.25	1/4	153.22	1/4	1/4		1/4		1/4
1/2	2,299.81	1/2	1,940.72	1/2	1,581.63	1/2	1,222.54	1/2	863.85	1/2	504.77	1/2	145.76	1/2	1/2		1/2		1/2
3/4	2,292.33	3/4	1,933.24	3/4	1,574.15	3/4	1,215.06	3/4	856.36	3/4	497.29	3/4	138.30	3/4	3/4		3/4		3/4
3	2,284.85	3	1,925.76	3	1,566.67	3	1,207.58	3	848.88	3	489.81	3	130.84	3	3		3		3
1/4	2,277.36	1/4	1,918.28	1/4	1,559.19	1/4	1,200.10	1/4	841.40	1/4	482.33	1/4	123.38	1/4	1/4		1/4		1/4
1/2	2,269.88	1/2	1,910.80	1/2	1,551.71	1/2	1,192.62	1/2	833.92	1/2	474.85	1/2	115.93	1/2	1/2		1/2		1/2
3/4	2,262.40	3/4	1,903.31	3/4	1,544.23	3/4	1,185.14	3/4	826.44	3/4	467.37	3/4	108.49	3/4	3/4		3/4		3/4
4	2,254.92	4	1,895.83	4	1,536.75	4	1,177.66	4	818.96	4	459.89	4	101.05	4	4		4		4
1/4	2,247.44	1/4	1,888.35	1/4	1,529.26	1/4	1,170.18	1/4	811.48	1/4	452.41	1/4	93.61	1/4	1/4		1/4		1/4
1/2	2,239.96	1/2	1,880.87	1/2	1,521.78	1/2	1,162.70	1/2	804.00	1/2	444.93	1/2	86.19	1/2	1/2		1/2		1/2
3/4	2,232.48	3/4	1,873.39	3/4	1,514.30	3/4	1,155.21	3/4	796.52	3/4	437.45	3/4	78.78	3/4	3/4		3/4		3/4
5	2,225.00	5	1,865.91	5	1,506.82	5	1,147.73	5	789.04	5	429.96	5	71.37	5	5		5		5
1/4	2,217.52	1/4	1,858.43	1/4	1,499.34	1/4	1,140.25	1/4	781.56	1/4	422.48	1/4	63.96	1/4	1/4		1/4		1/4
1/2	2,210.04	1/2	1,850.95	1/2	1,491.86	1/2	1,132.78	1/2	774.08	1/2	415.00	1/2	57.01	1/2	1/2		1/2		1/2
3/4	2,202.55	3/4	1,843.47	3/4	1,484.38	3/4	1,125.30	3/4	766.60	3/4	407.52	3/4	50.05	3/4	3/4		3/4		3/4
6	2,195.07	6	1,835.99	6	1,476.90	6	1,117.82	6	759.12	6	400.04	6	43.10	6	6		6		6
1/4	2,187.59	1/4	1,828.50	1/4	1,469.42	1/4	1,110.35	1/4	751.63	1/4	392.56	1/4	36.15	1/4	1/4		1/4		1/4
1/2	2,180.11	1/2	1,821.02	1/2	1,461.94	1/2	1,102.88	1/2	744.15	1/2	385.08	1/2	30.85	1/2	1/2		1/2		1/2
3/4	2,172.63	3/4	1,813.54	3/4	1,454.45	3/4	1,095.41	3/4	736.67	3/4	377.60	3/4	25.56	3/4	3/4		3/4		3/4
7	2,165.15	7	1,806.06	7	1,446.97	7	1,087.94	7	729.19	7	370.12	7	20.26	7	7		7		7
1/4	2,157.67	1/4	1,798.58	1/4	1,439.49	1/4	1,080.47	1/4	721.71	1/4	362.64	1/4	14.96	1/4	1/4		1/4		1/4
1/2	2,150.19	1/2	1,791.10	1/2	1,432.01	1/2	1,073.00	1/2	714.23	1/2	355.16	1/2		1/2	1/2		1/2		1/2
3/4	2,142.71	3/4	1,783.62	3/4	1,424.53	3/4	1,065.53	3/4	706.75	3/4	347.68	3/4		3/4	3/4		3/4		3/4
8	2,135.23	8	1,776.14	8	1,417.05	8	1,058.07	8	699.27	8	340.20	8		8	8		8		8
1/4	2,127.74	1/4	1,768.66	1/4	1,409.57	1/4	1,050.60	1/4	691.79	1/4	332.72	1/4		1/4	1/4		1/4		1/4
1/2	2,120.26	1/2	1,761.18	1/2	1,402.09	1/2	1,043.13	1/2	684.31	1/2	325.23	1/2		1/2	1/2		1/2		1/2
3/4	2,112.78	3/4	1,753.69	3/4	1,394.61	3/4	1,035.66	3/4	676.83	3/4	317.75	3/4		3/4	3/4		3/4		3/4
9	2,105.30	9	1,746.21	9	1,387.13	9	1,028.19	9	669.35	9	310.27	9		9	9		9		9
1/4	2,097.82	1/4	1,738.73	1/4	1,379.64	1/4	1,020.72	1/4	661.87	1/4	302.79	1/4		1/4	1/4		1/4		1/4
1/2	2,090.34	1/2	1,731.25	1/2	1,372.16	1/2	1,013.25	1/2	654.39	1/2	295.31	1/2		1/2	1/2		1/2		1/2
3/4	2,082.86	3/4	1,723.77	3/4	1,364.68	3/4	1,005.78	3/4	646.90	3/4	287.83	3/4		3/4	3/4		3/4		3/4
10	2,075.38	10	1,716.29	10	1,357.20	10	998.32	10	639.42	10	280.35	10		10	10		10		10
1/4	2,067.90	1/4	1,708.81	1/4	1,349.72	1/4	990.85	1/4	631.94	1/4	272.87	1/4		1/4	1/4		1/4		1/4
1/2	2,060.42	1/2	1,701.33	1/2	1,342.24	1/2	983.38	1/2	624.46	1/2	265.39	1/2		1/2	1/2		1/2		1/2
3/4	2,052.93	3/4	1,693.85	3/4	1,334.76	3/4	975.91	3/4	616.98	3/4	257.91	3/4		3/4	3/4		3/4		3/4
11	2,045.45	11	1,686.37	11	1,327.28	11	968.44	11	609.50	11	250.43	11		11	11		11		11
1/4	2,037.97	1/4	1,678.88	1/4	1,319.80	1/4	960.97	1/4	602.02	1/4	242.95	1/4		1/4	1/4		1/4		1/4
1/2	2,030.49	1/2	1,671.40	1/2	1,312.32	1/2	953.50	1/2	594.54	1/2	235.47	1/2		1/2	1/2		1/2		1/2
3/4	2,023.01	3/4	1,663.92	3/4	1,304.83	3/4	946.03	3/4	587.06	3/4	227.99	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28178"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	
0		0		0		0	4,350.48	0	4,108.72	0	3,861.68	0	3,602.66	0	3,332.04	0	2,976.04	0	2,619.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,346.32	1/4	4,103.69	1/4	3,856.40	1/4	3,597.13	1/4	3,324.60	1/4	2,968.61	1/4	2,611.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,342.17	1/2	4,098.66	1/2	3,851.12	1/2	3,591.59	1/2	3,317.17	1/2	2,961.18	1/2	2,604.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,338.02	3/4	4,093.63	3/4	3,845.84	3/4	3,586.06	3/4	3,309.74	3/4	2,953.75	3/4	2,597.13		
1	1	1	1	1	1	1	4,333.86	1	4,088.60	1	3,840.56	1	3,580.52	1	3,302.31	1	2,946.32	1	2,589.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,328.50	1/4	4,083.55	1/4	3,835.26	1/4	3,574.97	1/4	3,294.87	1/4	2,938.89	1/4	2,582.27		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,323.14	1/2	4,078.50	1/2	3,829.96	1/2	3,569.42	1/2	3,287.44	1/2	2,931.46	1/2	2,574.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,317.78	3/4	4,073.45	3/4	3,824.65	3/4	3,563.86	3/4	3,280.01	3/4	2,924.03	3/4	2,567.41		
2	2	2	2	2	2	2	4,312.43	2	4,068.39	2	3,819.35	2	3,558.31	2	3,272.58	2	2,916.60	2	2,559.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.72	1/4	4,063.32	1/4	3,814.03	1/4	3,552.74	1/4	3,265.14	1/4	2,909.17	1/4	2,552.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,301.01	1/2	4,058.25	1/2	3,808.71	1/2	3,547.17	1/2	3,257.71	1/2	2,901.74	1/2	2,545.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,295.30	3/4	4,053.18	3/4	3,803.38	3/4	3,541.60	3/4	3,250.28	3/4	2,894.31	3/4	2,537.69		
3	3	3	3	3	3	3	4,289.60	3	4,048.11	3	3,798.06	3	3,535.03	3	3,242.85	3	2,886.88	3	2,530.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,283.89	1/4	4,043.01	1/4	3,792.72	1/4	3,530.43	1/4	3,235.41	1/4	2,879.45	1/4	2,522.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,278.18	1/2	4,037.92	1/2	3,787.37	1/2	3,524.84	1/2	3,227.98	1/2	2,872.02	1/2	2,515.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,272.48	3/4	4,032.82	3/4	3,782.03	3/4	3,519.24	3/4	3,220.55	3/4	2,864.60	3/4	2,507.97		
4	4	4	4	4	4	4	4,266.77	4	4,027.73	4	3,776.69	4	3,513.65	4	3,213.11	4	2,857.17	4	2,500.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,261.90	1/4	4,022.62	1/4	3,771.32	1/4	3,508.03	1/4	3,205.71	1/4	2,849.74	1/4	2,493.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,257.04	1/2	4,017.50	1/2	3,765.96	1/2	3,502.42	1/2	3,198.30	1/2	2,842.31	1/2	2,485.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,252.17	3/4	4,012.39	3/4	3,760.59	3/4	3,496.81	3/4	3,190.90	3/4	2,834.88	3/4	2,478.26		
5	5	5	5	5	5	5	4,247.30	5	4,007.27	5	3,755.22	5	3,491.19	5	3,183.49	5	2,827.45	5	2,470.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,242.42	1/4	4,002.14	1/4	3,749.84	1/4	3,485.56	1/4	3,176.09	1/4	2,820.02	1/4	2,463.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,237.53	1/2	3,997.00	1/2	3,744.46	1/2	3,479.92	1/2	3,168.68	1/2	2,812.59	1/2	2,455.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,232.65	3/4	3,991.86	3/4	3,739.07	3/4	3,474.28	3/4	3,161.28	3/4	2,805.16	3/4	2,448.54		
6	6	6	6	6	6	6	4,227.77	6	3,986.73	6	3,733.69	6	3,468.65	6	3,153.87	6	2,797.73	6	2,441.11		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,222.86	1/4	3,981.57	1/4	3,728.28	1/4	3,462.99	1/4	3,146.46	1/4	2,790.30	1/4	2,433.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,217.95	1/2	3,976.42	1/2	3,722.87	1/2	3,457.34	1/2	3,139.06	1/2	2,782.87	1/2	2,426.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,213.04	3/4	3,971.26	3/4	3,717.46	3/4	3,451.68	3/4	3,131.65	3/4	2,775.44	3/4	2,418.82		
7	7	7	7	7	7	7	4,208.13	7	3,966.10	7	3,712.06	7	3,446.03	7	3,124.25	7	2,768.01	7	2,411.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,203.20	1/4	3,960.92	1/4	3,706.63	1/4	3,440.35	1/4	3,116.84	1/4	2,760.58	1/4	2,403.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,198.28	1/2	3,955.74	1/2	3,701.20	1/2	3,434.67	1/2	3,109.44	1/2	2,753.15	1/2	2,396.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,193.35	3/4	3,950.56	3/4	3,695.78	3/4	3,428.99	3/4	3,102.03	3/4	2,745.72	3/4	2,389.10		
8	8	8	8	8	8	8	4,188.42	8	3,945.39	8	3,690.35	8	3,423.31	8	3,094.62	8	2,738.29	8	2,381.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,183.47	1/4	3,940.19	1/4	3,684.90	1/4	3,417.61	1/4	3,087.22	1/4	2,730.86	1/4	2,374.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,178.52	1/2	3,934.99	1/2	3,679.45	1/2	3,411.92	1/2	3,079.81	1/2	2,723.43	1/2	2,366.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,173.57	3/4	3,929.79	3/4	3,674.00	3/4	3,406.22	3/4	3,072.41	3/4	2,716.00	3/4	2,359.38		
9	9	9	9	9	9	9	4,168.62	9	3,924.59	9	3,668.55	9	3,400.52	9	3,065.00	9	2,708.57	9	2,351.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,163.65	1/4	3,919.37	1/4	3,663.08	1/4	3,394.81	1/4	3,057.60	1/4	2,701.14	1/4	2,344.52		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,158.68	1/2	3,914.15	1/2	3,657.61	1/2	3,389.11	1/2	3,050.19	1/2	2,693.71	1/2	2,337.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,153.71	3/4	3,908.93	3/4	3,652.15	3/4	3,383.40	3/4	3,042.79	3/4	2,686.28	3/4	2,329.66		
10	10	10	10	10	10	10	4,148.74	10	3,903.70	10	3,646.68	10	3,377.69	10	3,035.38	10	2,678.86	10	2,322.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,143.75	1/4	3,898.46	1/4	3,641.18	1/4	3,371.99	1/4	3,027.97	1/4	2,671.43	1/4	2,314.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,138.75	1/2	3,893.22	1/2	3,635.69	1/2	3,366.28	1/2	3,020.57	1/2	2,664.00	1/2	2,307.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,133.76	3/4	3,887.98	3/4	3,630.20	3/4	3,360.57	3/4	3,013.16	3/4	2,656.57	3/4	2,299.94		
11	11	11	11	11	11	11	4,369.02	11	4,128.77	11	3,882.75	11	3,624.71	11	3,354.87	11	3,005.76	11	2,649.14	11	2,292.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,364.39	1/4	4,123.75	1/4	3,877.48	1/4	3,619.19	1/4	3,349.16	1/4	2,998.33	1/4	2,641.71	1/4	2,285.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,359.75	1/2	4,118.74	1/2	3,872.21	1/2	3,613.68	1/2	3,343.45	1/2	2,990.90	1/2	2,634.28	1/2	2,277.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,355.11	3/4	4,113.73	3/4	3,866.95	3/4	3,608.17	3/4	3,337.74	3/4	2,983.47	3/4	2,626.85	3/4	2,270.22

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-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 "KIRBY 28178"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,262.79		1,905.69		1,549.63		1,193.38		848.46		491.25		133.86								
1/4	2,255.36	1/4	1,898.27	1/4	1,542.19	1/4	1,186.21	1/4	841.04	1/4	483.80	1/4	126.42	1/4		1/4		1/4		1/4	
1/2	2,247.93	1/2	1,890.85	1/2	1,534.74	1/2	1,179.03	1/2	833.61	1/2	476.36	1/2	118.97	1/2		1/2		1/2		1/2	
3/4	2,240.50	3/4	1,883.44	3/4	1,527.30	3/4	1,171.85	3/4	826.19	3/4	468.91	3/4	111.53	3/4		3/4		3/4		3/4	
1	2,233.07	1	1,876.02	1	1,519.85	1	1,164.68	1	818.77	1	461.47	1	104.08	1		1		1		1	
1/4	2,225.64	1/4	1,868.60	1/4	1,512.41	1/4	1,157.50	1/4	811.34	1/4	454.02	1/4	96.95	1/4		1/4		1/4		1/4	
1/2	2,218.21	1/2	1,861.18	1/2	1,504.97	1/2	1,150.33	1/2	803.92	1/2	446.58	1/2	89.82	1/2		1/2		1/2		1/2	
3/4	2,210.78	3/4	1,853.76	3/4	1,497.52	3/4	1,143.15	3/4	796.49	3/4	439.13	3/4	82.69	3/4		3/4		3/4		3/4	
2	2,203.35	2	1,846.35	2	1,490.08	2	1,135.97	2	789.07	2	431.68	2	75.56	2		2		2		2	
1/4	2,195.92	1/4	1,838.93	1/4	1,482.63	1/4	1,128.80	1/4	781.62	1/4	424.24	1/4	69.38	1/4		1/4		1/4		1/4	
1/2	2,188.49	1/2	1,831.51	1/2	1,475.19	1/2	1,121.62	1/2	774.18	1/2	416.79	1/2	63.19	1/2		1/2		1/2		1/2	
3/4	2,181.06	3/4	1,824.09	3/4	1,467.74	3/4	1,114.45	3/4	766.73	3/4	409.35	3/4	57.00	3/4		3/4		3/4		3/4	
3	2,173.63	3	1,816.68	3	1,460.30	3	1,107.27	3	759.29	3	401.90	3	50.81	3		3		3		3	
1/4	2,166.20	1/4	1,809.26	1/4	1,452.86	1/4	1,100.09	1/4	751.84	1/4	394.46	1/4	45.88	1/4		1/4		1/4		1/4	
1/2	2,158.77	1/2	1,801.84	1/2	1,445.41	1/2	1,092.92	1/2	744.40	1/2	387.01	1/2	40.94	1/2		1/2		1/2		1/2	
3/4	2,151.34	3/4	1,794.42	3/4	1,437.97	3/4	1,085.74	3/4	736.95	3/4	379.57	3/4	36.01	3/4		3/4		3/4		3/4	
4	2,143.91	4	1,787.00	4	1,430.52	4	1,078.57	4	729.50	4	372.12	4	31.08	4		4		4		4	
1/4	2,136.46	1/4	1,779.59	1/4	1,423.08	1/4	1,071.40	1/4	722.06	1/4	364.67	1/4	27.41	1/4		1/4		1/4		1/4	
1/2	2,129.02	1/2	1,772.17	1/2	1,415.64	1/2	1,064.24	1/2	714.61	1/2	357.23	1/2	23.74	1/2		1/2		1/2		1/2	
3/4	2,121.57	3/4	1,764.75	3/4	1,408.19	3/4	1,057.08	3/4	707.17	3/4	349.78	3/4	20.08	3/4		3/4		3/4		3/4	
5	2,114.13	5	1,757.33	5	1,400.75	5	1,049.92	5	699.72	5	342.34	5	16.41	5		5		5		5	
1/4	2,106.69	1/4	1,749.91	1/4	1,393.30	1/4	1,042.76	1/4	692.28	1/4	334.89	1/4		1/4		1/4		1/4		1/4	
1/2	2,099.24	1/2	1,742.50	1/2	1,385.86	1/2	1,035.59	1/2	684.83	1/2	327.45	1/2		1/2		1/2		1/2		1/2	
3/4	2,091.80	3/4	1,735.08	3/4	1,378.41	3/4	1,028.43	3/4	677.39	3/4	320.00	3/4		3/4		3/4		3/4		3/4	
6	2,084.35	6	1,727.66	6	1,370.97	6	1,021.27	6	669.94	6	312.56	6		6		6		6		6	
1/4	2,076.91	1/4	1,720.24	1/4	1,363.53	1/4	1,014.11	1/4	662.49	1/4	305.11	1/4		1/4		1/4		1/4		1/4	
1/2	2,069.46	1/2	1,712.82	1/2	1,356.08	1/2	1,006.95	1/2	655.05	1/2	297.67	1/2		1/2		1/2		1/2		1/2	
3/4	2,062.02	3/4	1,705.41	3/4	1,348.64	3/4	999.79	3/4	647.60	3/4	290.22	3/4		3/4		3/4		3/4		3/4	
7	2,054.58	7	1,697.99	7	1,341.19	7	992.64	7	640.16	7	282.77	7		7		7		7		7	
1/4	2,047.13	1/4	1,690.57	1/4	1,333.75	1/4	985.48	1/4	632.71	1/4	275.33	1/4		1/4		1/4		1/4		1/4	
1/2	2,039.69	1/2	1,683.15	1/2	1,326.31	1/2	978.33	1/2	625.27	1/2	267.88	1/2		1/2		1/2		1/2		1/2	
3/4	2,032.24	3/4	1,675.74	3/4	1,318.86	3/4	971.17	3/4	617.82	3/4	260.44	3/4		3/4		3/4		3/4		3/4	
8	2,024.80	8	1,668.32	8	1,311.42	8	964.02	8	610.38	8	252.99	8		8		8		8		8	
1/4	2,017.35	1/4	1,660.90	1/4	1,303.97	1/4	956.86	1/4	602.93	1/4	245.55	1/4		1/4		1/4		1/4		1/4	
1/2	2,009.91	1/2	1,653.48	1/2	1,296.53	1/2	949.71	1/2	595.49	1/2	238.10	1/2		1/2		1/2		1/2		1/2	
3/4	2,002.47	3/4	1,646.06	3/4	1,289.08	3/4	942.55	3/4	588.04	3/4	230.66	3/4		3/4		3/4		3/4		3/4	
9	1,995.02	9	1,638.65	9	1,281.64	9	935.40	9	580.59	9	223.21	9		9		9		9		9	
1/4	1,987.58	1/4	1,631.23	1/4	1,274.20	1/4	928.24	1/4	573.15	1/4	215.76	1/4		1/4		1/4		1/4		1/4	
1/2	1,980.13	1/2	1,623.81	1/2	1,266.75	1/2	921.09	1/2	565.70	1/2	208.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,972.69	3/4	1,616.39	3/4	1,259.31	3/4	913.93	3/4	558.26	3/4	200.87	3/4		3/4		3/4		3/4		3/4	
10	1,965.24	10	1,608.97	10	1,251.86	10	906.78	10	550.81	10	193.43	10		10		10		10		10	
1/4	1,957.80	1/4	1,601.56	1/4	1,244.42	1/4	899.62	1/4	543.37	1/4	185.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,950.36	1/2	1,594.14	1/2	1,236.97	1/2	892.47	1/2	535.92	1/2	178.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,942.91	3/4	1,586.72	3/4	1,229.53	3/4	885.31	3/4	528.48	3/4	171.09	3/4		3/4		3/4		3/4		3/4	
11	1,935.47	11	1,579.30	11	1,222.09	11	878.16	11	521.03	11	163.65	11		11		11		11		11	
1/4	1,928.02	1/4	1,571.88	1/4	1,214.64	1/4	870.74	1/4	513.58	1/4	156.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,920.58	1/2	1,564.47	1/2	1,207.23	1/2	863.31	1/2	506.14	1/2	148.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,913.13	3/4	1,557.05	3/4	1,200.81	3/4	855.89	3/4	498.69	3/4	141.31	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

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



# BARGE "KIRBY 28178"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	IN	0
1/4		1/4		1/4		1/4	4,378.38	1/4	4,135.46	1/4	3,887.26	1/4	3,627.07	1/4	3,355.24	1/4	2,997.29	1/4	2,639.34		
1/2		1/2		1/2		1/2	4,374.20	1/2	4,130.41	1/2	3,881.96	1/2	3,621.51	1/2	3,347.78	1/2	2,989.83	1/2	2,631.88		
3/4		3/4		3/4		3/4	4,370.02	3/4	4,125.35	3/4	3,876.65	3/4	3,615.95	3/4	3,340.33	3/4	2,982.38	3/4	2,624.43		
1	1	1	1	1	1	1	4,365.84	1	4,120.30	1	3,871.34	1	3,610.39	1	3,332.87	1	2,974.92	1	2,616.97		
1/4		1/4		1/4		1/4	4,361.66	1/4	4,115.25	1/4	3,866.04	1/4	3,604.83	1/4	3,325.41	1/4	2,967.46	1/4	2,609.51		
1/2		1/2		1/2		1/2	4,356.28	1/2	4,110.17	1/2	3,860.71	1/2	3,599.25	1/2	3,317.95	1/2	2,960.00	1/2	2,602.05		
3/4		3/4		3/4		3/4	4,350.90	3/4	4,105.09	3/4	3,855.39	3/4	3,593.67	3/4	3,310.50	3/4	2,952.55	3/4	2,594.60		
2	2	2	2	2	2	2	4,345.51	2	4,100.02	2	3,850.06	2	3,588.10	2	3,303.04	2	2,945.09	2	2,587.14		
1/4		1/4		1/4		1/4	4,340.13	1/4	4,094.94	1/4	3,844.74	1/4	3,582.52	1/4	3,295.58	1/4	2,937.63	1/4	2,579.68		
1/2		1/2		1/2		1/2	4,334.40	1/2	4,089.84	1/2	3,839.39	1/2	3,576.92	1/2	3,288.12	1/2	2,930.17	1/2	2,572.22		
3/4		3/4		3/4		3/4	4,328.67	3/4	4,084.75	3/4	3,834.04	3/4	3,571.33	3/4	3,280.67	3/4	2,922.72	3/4	2,564.77		
3	3	3	3	3	3	3	4,322.94	3	4,079.65	3	3,828.70	3	3,565.73	3	3,273.21	3	2,915.26	3	2,557.31		
1/4		1/4		1/4		1/4	4,317.21	1/4	4,074.56	1/4	3,823.35	1/4	3,560.14	1/4	3,265.75	1/4	2,907.80	1/4	2,549.85		
1/2		1/2		1/2		1/2	4,311.47	1/2	4,069.44	1/2	3,817.98	1/2	3,554.52	1/2	3,258.30	1/2	2,900.35	1/2	2,542.39		
3/4		3/4		3/4		3/4	4,305.74	3/4	4,064.32	3/4	3,812.61	3/4	3,548.90	3/4	3,250.84	3/4	2,892.89	3/4	2,534.94		
4	4	4	4	4	4	4	4,300.01	4	4,059.20	4	3,807.25	4	3,543.28	4	3,243.38	4	2,885.43	4	2,527.48		
1/4		1/4		1/4		1/4	4,294.28	1/4	4,054.08	1/4	3,801.88	1/4	3,537.66	1/4	3,235.92	1/4	2,877.97	1/4	2,520.02		
1/2		1/2		1/2		1/2	4,289.39	1/2	4,048.94	1/2	3,796.49	1/2	3,532.02	1/2	3,228.47	1/2	2,870.52	1/2	2,512.57		
3/4		3/4		3/4		3/4	4,284.50	3/4	4,043.81	3/4	3,791.10	3/4	3,526.38	3/4	3,221.01	3/4	2,863.06	3/4	2,505.11		
5	5	5	5	5	5	5	4,279.61	5	4,038.67	5	3,785.71	5	3,520.75	5	3,213.55	5	2,855.60	5	2,497.65		
1/4		1/4		1/4		1/4	4,274.72	1/4	4,033.53	1/4	3,780.32	1/4	3,515.11	1/4	3,206.09	1/4	2,848.14	1/4	2,490.19		
1/2		1/2		1/2		1/2	4,269.81	1/2	4,028.37	1/2	3,774.91	1/2	3,509.45	1/2	3,198.64	1/2	2,840.69	1/2	2,482.74		
3/4		3/4		3/4		3/4	4,264.90	3/4	4,023.21	3/4	3,769.50	3/4	3,503.78	3/4	3,191.18	3/4	2,833.23	3/4	2,475.28		
6	6	6	6	6	6	6	4,259.99	6	4,018.05	6	3,764.09	6	3,498.12	6	3,183.72	6	2,825.77	6	2,467.82		
1/4		1/4		1/4		1/4	4,255.08	1/4	4,012.89	1/4	3,758.68	1/4	3,492.46	1/4	3,176.27	1/4	2,818.32	1/4	2,460.36		
1/2		1/2		1/2		1/2	4,250.15	1/2	4,007.71	1/2	3,753.25	1/2	3,486.78	1/2	3,168.81	1/2	2,810.86	1/2	2,452.91		
3/4		3/4		3/4		3/4	4,245.22	3/4	4,002.53	3/4	3,747.82	3/4	3,481.10	3/4	3,161.35	3/4	2,803.40	3/4	2,445.45		
7	7	7	7	7	7	7	4,240.29	7	3,997.35	7	3,742.39	7	3,475.42	7	3,153.89	7	2,795.94	7	2,437.99		
1/4		1/4		1/4		1/4	4,235.35	1/4	3,992.17	1/4	3,736.96	1/4	3,469.74	1/4	3,146.44	1/4	2,788.49	1/4	2,430.54		
1/2		1/2		1/2		1/2	4,230.40	1/2	3,986.96	1/2	3,731.50	1/2	3,464.04	1/2	3,138.98	1/2	2,781.03	1/2	2,423.08		
3/4		3/4		3/4		3/4	4,225.45	3/4	3,981.76	3/4	3,726.05	3/4	3,458.34	3/4	3,131.52	3/4	2,773.57	3/4	2,415.62		
8	8	8	8	8	8	8	4,220.50	8	3,976.55	8	3,720.60	8	3,452.63	8	3,124.06	8	2,766.11	8	2,408.16		
1/4		1/4		1/4		1/4	4,215.55	1/4	3,971.35	1/4	3,715.15	1/4	3,446.93	1/4	3,116.61	1/4	2,758.66	1/4	2,400.71		
1/2		1/2		1/2		1/2	4,210.57	1/2	3,966.13	1/2	3,709.68	1/2	3,441.21	1/2	3,109.15	1/2	2,751.20	1/2	2,393.25		
3/4		3/4		3/4		3/4	4,205.60	3/4	3,960.91	3/4	3,704.20	3/4	3,435.48	3/4	3,101.69	3/4	2,743.74	3/4	2,385.79		
9	9	9	9	9	9	9	4,200.62	9	3,955.68	9	3,698.73	9	3,429.76	9	3,094.24	9	2,736.28	9	2,378.33		
1/4		1/4		1/4		1/4	4,195.65	1/4	3,950.46	1/4	3,693.25	1/4	3,424.04	1/4	3,086.78	1/4	2,728.83	1/4	2,370.88		
1/2		1/2		1/2		1/2	4,190.65	1/2	3,945.22	1/2	3,687.76	1/2	3,418.31	1/2	3,079.32	1/2	2,721.37	1/2	2,363.42		
3/4		3/4		3/4		3/4	4,185.66	3/4	3,939.97	3/4	3,682.27	3/4	3,412.57	3/4	3,071.86	3/4	2,713.91	3/4	2,355.96		
10	10	10	10	10	10	10	4,180.67	10	3,934.72	10	3,676.77	10	3,406.84	10	3,064.41	10	2,706.46	10	2,348.51		
1/4		1/4		1/4		1/4	4,175.68	1/4	3,929.48	1/4	3,671.28	1/4	3,401.11	1/4	3,056.95	1/4	2,699.00	1/4	2,341.05		
1/2		1/2		1/2		1/2	4,170.66	1/2	3,924.21	1/2	3,665.76	1/2	3,395.37	1/2	3,049.49	1/2	2,691.54	1/2	2,333.59		
3/4		3/4		3/4		3/4	4,165.64	3/4	3,918.95	3/4	3,660.25	3/4	3,389.64	3/4	3,042.03	3/4	2,684.08	3/4	2,326.13		
11	11	11	11	11	11	11	4,160.62	11	3,913.68	11	3,654.73	11	3,383.91	11	3,034.58	11	2,676.63	11	2,318.68		
1/4		1/4		1/4	4,397.02	1/4	4,155.60	1/4	3,908.42	1/4	3,649.21	1/4	3,378.17	1/4	3,027.12	1/4	2,669.17	1/4	2,311.22		
1/2		1/2		1/2	4,392.36	1/2	4,150.57	1/2	3,903.13	1/2	3,643.67	1/2	3,372.44	1/2	3,019.66	1/2	2,661.71	1/2	2,303.76		
3/4		3/4		3/4	4,387.70	3/4	4,145.53	3/4	3,897.84	3/4	3,638.14	3/4	3,366.71	3/4	3,012.20	3/4	2,654.25	3/4	2,296.30		

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-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 "KIRBY 28178"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,288.85	0	1,930.90	0	1,572.95	0	1,215.00	0	857.32	0	499.48	0	141.54	0		0		0	
1/4	2,281.39	1/4	1,923.44	1/4	1,565.49	1/4	1,207.54	1/4	849.87	1/4	492.03	1/4	134.09	1/4	1/4	1/4		1/4	
1/2	2,273.93	1/2	1,915.98	1/2	1,558.03	1/2	1,200.08	1/2	842.43	1/2	484.57	1/2	126.63	1/2	1/2	1/2		1/2	
3/4	2,266.47	3/4	1,908.52	3/4	1,550.57	3/4	1,192.62	3/4	834.98	3/4	477.11	3/4	119.17	3/4	3/4	3/4		3/4	
1	2,259.02	1	1,901.07	1	1,543.12	1	1,185.17	1	827.54	1	469.65	1	111.72	1	1	1		1	
1/4	2,251.56	1/4	1,893.61	1/4	1,535.66	1/4	1,177.71	1/4	820.09	1/4	462.20	1/4	104.26	1/4	1/4	1/4		1/4	
1/2	2,244.10	1/2	1,886.15	1/2	1,528.20	1/2	1,170.25	1/2	812.65	1/2	454.74	1/2	97.12	1/2	1/2	1/2		1/2	
3/4	2,236.65	3/4	1,878.70	3/4	1,520.74	3/4	1,162.79	3/4	805.20	3/4	447.28	3/4	89.98	3/4	3/4	3/4		3/4	
2	2,229.19	2	1,871.24	2	1,513.29	2	1,155.34	2	797.76	2	439.83	2	82.83	2	2	2		2	
1/4	2,221.73	1/4	1,863.78	1/4	1,505.83	1/4	1,147.88	1/4	790.31	1/4	432.37	1/4	75.69	1/4	1/4	1/4		1/4	
1/2	2,214.27	1/2	1,856.32	1/2	1,498.37	1/2	1,140.42	1/2	782.85	1/2	424.91	1/2	69.49	1/2	1/2	1/2		1/2	
3/4	2,206.82	3/4	1,848.87	3/4	1,490.92	3/4	1,132.97	3/4	775.40	3/4	417.46	3/4	63.29	3/4	3/4	3/4		3/4	
3	2,199.36	3	1,841.41	3	1,483.46	3	1,125.51	3	767.94	3	410.00	3	57.09	3	3	3		3	
1/4	2,191.90	1/4	1,833.95	1/4	1,476.00	1/4	1,118.05	1/4	760.48	1/4	402.54	1/4	50.89	1/4	1/4	1/4		1/4	
1/2	2,184.44	1/2	1,826.49	1/2	1,468.54	1/2	1,110.59	1/2	753.02	1/2	395.08	1/2	45.95	1/2	1/2	1/2		1/2	
3/4	2,176.99	3/4	1,819.04	3/4	1,461.09	3/4	1,103.14	3/4	745.57	3/4	387.63	3/4	41.00	3/4	3/4	3/4		3/4	
4	2,169.53	4	1,811.58	4	1,453.63	4	1,095.68	4	738.11	4	380.17	4	36.06	4	4	4		4	
1/4	2,162.07	1/4	1,804.12	1/4	1,446.17	1/4	1,088.22	1/4	730.65	1/4	372.71	1/4	31.12	1/4	1/4	1/4		1/4	
1/2	2,154.62	1/2	1,796.66	1/2	1,438.71	1/2	1,080.76	1/2	723.20	1/2	365.26	1/2	27.44	1/2	1/2	1/2		1/2	
3/4	2,147.16	3/4	1,789.21	3/4	1,431.26	3/4	1,073.31	3/4	715.74	3/4	357.80	3/4	23.76	3/4	3/4	3/4		3/4	
5	2,139.70	5	1,781.75	5	1,423.80	5	1,065.85	5	708.28	5	350.34	5	20.08	5	5	5		5	
1/4	2,132.24	1/4	1,774.29	1/4	1,416.34	1/4	1,058.39	1/4	700.82	1/4	342.88	1/4	16.41	1/4	1/4	1/4		1/4	
1/2	2,124.79	1/2	1,766.84	1/2	1,408.89	1/2	1,050.93	1/2	693.37	1/2	335.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,117.33	3/4	1,759.38	3/4	1,401.43	3/4	1,043.48	3/4	685.91	3/4	327.97	3/4		3/4	3/4	3/4		3/4	
6	2,109.87	6	1,751.92	6	1,393.97	6	1,036.02	6	678.45	6	320.51	6		6	6	6		6	
1/4	2,102.41	1/4	1,744.46	1/4	1,386.51	1/4	1,028.56	1/4	671.00	1/4	313.06	1/4		1/4	1/4	1/4		1/4	
1/2	2,094.96	1/2	1,737.01	1/2	1,379.06	1/2	1,021.12	1/2	663.54	1/2	305.60	1/2		1/2	1/2	1/2		1/2	
3/4	2,087.50	3/4	1,729.55	3/4	1,371.60	3/4	1,013.67	3/4	656.08	3/4	298.14	3/4		3/4	3/4	3/4		3/4	
7	2,080.04	7	1,722.09	7	1,364.14	7	1,006.23	7	648.63	7	290.68	7		7	7	7		7	
1/4	2,072.59	1/4	1,714.63	1/4	1,356.68	1/4	998.78	1/4	641.17	1/4	283.23	1/4		1/4	1/4	1/4		1/4	
1/2	2,065.13	1/2	1,707.18	1/2	1,349.23	1/2	991.34	1/2	633.71	1/2	275.77	1/2		1/2	1/2	1/2		1/2	
3/4	2,057.67	3/4	1,699.72	3/4	1,341.77	3/4	983.89	3/4	626.25	3/4	268.31	3/4		3/4	3/4	3/4		3/4	
8	2,050.21	8	1,692.26	8	1,334.31	8	976.45	8	618.80	8	260.86	8		8	8	8		8	
1/4	2,042.76	1/4	1,684.81	1/4	1,326.85	1/4	969.00	1/4	611.34	1/4	253.40	1/4		1/4	1/4	1/4		1/4	
1/2	2,035.30	1/2	1,677.35	1/2	1,319.40	1/2	961.55	1/2	603.88	1/2	245.94	1/2		1/2	1/2	1/2		1/2	
3/4	2,027.84	3/4	1,669.89	3/4	1,311.94	3/4	954.11	3/4	596.43	3/4	238.48	3/4		3/4	3/4	3/4		3/4	
9	2,020.38	9	1,662.43	9	1,304.48	9	946.66	9	588.97	9	231.03	9		9	9	9		9	
1/4	2,012.93	1/4	1,654.98	1/4	1,297.03	1/4	939.22	1/4	581.51	1/4	223.57	1/4		1/4	1/4	1/4		1/4	
1/2	2,005.47	1/2	1,647.52	1/2	1,289.57	1/2	931.77	1/2	574.05	1/2	216.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,998.01	3/4	1,640.06	3/4	1,282.11	3/4	924.33	3/4	566.60	3/4	208.66	3/4		3/4	3/4	3/4		3/4	
10	1,990.55	10	1,632.60	10	1,274.65	10	916.88	10	559.14	10	201.20	10		10	10	10		10	
1/4	1,983.10	1/4	1,625.15	1/4	1,267.20	1/4	909.44	1/4	551.68	1/4	193.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,975.64	1/2	1,617.69	1/2	1,259.74	1/2	901.99	1/2	544.23	1/2	186.29	1/2		1/2	1/2	1/2		1/2	
3/4	1,968.18	3/4	1,610.23	3/4	1,252.28	3/4	894.55	3/4	536.77	3/4	178.83	3/4		3/4	3/4	3/4		3/4	
11	1,960.73	11	1,602.78	11	1,244.82	11	887.10	11	529.31	11	171.37	11		11	11	11		11	
1/4	1,953.27	1/4	1,595.32	1/4	1,237.37	1/4	879.65	1/4	521.85	1/4	163.91	1/4		1/4	1/4	1/4		1/4	
1/2	1,945.81	1/2	1,587.86	1/2	1,229.91	1/2	872.21	1/2	514.40	1/2	156.46	1/2		1/2	1/2	1/2		1/2	
3/4	1,938.35	3/4	1,580.40	3/4	1,222.45	3/4	864.76	3/4	506.94	3/4	149.00	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/17/2011 CL - SW  
CALCULATED: 11/18/2011 CL  
PRINTED: 11/18/2011 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2011

PRECISION MEASUREMENT  
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