



# BARGE "KIRBY 28149"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-06"

August 14, 2012

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 28149"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

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
							4,202.42		3,913.66		3,610.55		3,293.55		2,964.39		2,633.19		2,301.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.51	1/4	3,907.51	1/4	3,604.08	1/4	3,286.80	1/4	2,957.49	1/4	2,626.29	1/4	2,295.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,190.61	1/2	3,901.36	1/2	3,597.61	1/2	3,280.05	1/2	2,950.59	1/2	2,619.39	1/2	2,288.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,184.70	3/4	3,895.20	3/4	3,591.13	3/4	3,273.30	3/4	2,943.69	3/4	2,612.49	3/4	2,281.25
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,178.77</b>	<b>1</b>	<b>3,889.02</b>	<b>1</b>	<b>3,584.64</b>	<b>1</b>	<b>3,266.52</b>	<b>1</b>	<b>2,936.79</b>	<b>1</b>	<b>2,605.59</b>	<b>1</b>	<b>2,274.35</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,172.84	1/4	3,882.85	1/4	3,578.15	1/4	3,259.74	1/4	2,929.89	1/4	2,598.69	1/4	2,267.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,166.91	1/2	3,876.67	1/2	3,571.66	1/2	3,252.96	1/2	2,922.99	1/2	2,591.79	1/2	2,260.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,160.98	3/4	3,870.49	3/4	3,565.17	3/4	3,246.18	3/4	2,916.09	3/4	2,584.89	3/4	2,253.65
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,155.03</b>	<b>2</b>	<b>3,864.29</b>	<b>2</b>	<b>3,558.65</b>	<b>2</b>	<b>3,239.39</b>	<b>2</b>	<b>2,909.19</b>	<b>2</b>	<b>2,577.99</b>	<b>2</b>	<b>2,246.74</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,149.07	1/4	3,858.09	1/4	3,552.14	1/4	3,232.59	1/4	2,902.29	1/4	2,571.09	1/4	2,239.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,143.11	1/2	3,851.89	1/2	3,545.63	1/2	3,225.79	1/2	2,895.39	1/2	2,564.19	1/2	2,232.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,137.16	3/4	3,845.69	3/4	3,539.11	3/4	3,218.99	3/4	2,888.49	3/4	2,557.29	3/4	2,226.04
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,131.21</b>	<b>3</b>	<b>3,839.43</b>	<b>3</b>	<b>3,532.57</b>	<b>3</b>	<b>3,212.17</b>	<b>3</b>	<b>2,881.59</b>	<b>3</b>	<b>2,550.39</b>	<b>3</b>	<b>2,219.14</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,125.27	1/4	3,833.18	1/4	3,526.03	1/4	3,205.36	1/4	2,874.69	1/4	2,543.49	1/4	2,212.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,119.33	1/2	3,826.92	1/2	3,519.49	1/2	3,198.54	1/2	2,867.79	1/2	2,536.59	1/2	2,205.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,113.38	3/4	3,820.67	3/4	3,512.95	3/4	3,191.72	3/4	2,860.89	3/4	2,529.69	3/4	2,198.43
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,107.42</b>	<b>4</b>	<b>3,814.38</b>	<b>4</b>	<b>3,506.39</b>	<b>4</b>	<b>3,184.87</b>	<b>4</b>	<b>2,853.99</b>	<b>4</b>	<b>2,522.79</b>	<b>4</b>	<b>2,191.53</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,101.45	1/4	3,808.10	1/4	3,499.83	1/4	3,178.02	1/4	2,847.09	1/4	2,515.89	1/4	2,184.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,095.49	1/2	3,801.82	1/2	3,493.27	1/2	3,171.17	1/2	2,840.19	1/2	2,508.99	1/2	2,177.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,089.52	3/4	3,795.54	3/4	3,486.71	3/4	3,164.32	3/4	2,833.29	3/4	2,502.09	3/4	2,170.83
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,083.53</b>	<b>5</b>	<b>3,789.23</b>	<b>5</b>	<b>3,480.12</b>	<b>5</b>	<b>3,157.45</b>	<b>5</b>	<b>2,826.39</b>	<b>5</b>	<b>2,495.19</b>	<b>5</b>	<b>2,163.93</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,077.54	1/4	3,782.93	1/4	3,473.53	1/4	3,150.59	1/4	2,819.49	1/4	2,488.29	1/4	2,157.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,071.55	1/2	3,776.63	1/2	3,466.93	1/2	3,143.72	1/2	2,812.59	1/2	2,481.39	1/2	2,150.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,065.56	3/4	3,770.32	3/4	3,460.34	3/4	3,136.85	3/4	2,805.69	3/4	2,474.49	3/4	2,143.22
<b>6</b>	<b>6</b>	<b>6</b>	<b>4,357.83</b>	<b>6</b>	<b>4,059.54</b>	<b>6</b>	<b>3,763.99</b>	<b>6</b>	<b>3,453.73</b>	<b>6</b>	<b>3,129.96</b>	<b>6</b>	<b>2,798.79</b>	<b>6</b>	<b>2,467.59</b>	<b>6</b>	<b>2,136.32</b>		
1/4	1/4	1/4	4,352.65	1/4	4,053.53	1/4	3,757.66	1/4	3,447.12	1/4	3,123.07	1/4	2,791.89	1/4	2,460.69	1/4	2,129.42		
1/2	1/2	1/2	4,347.48	1/2	4,047.52	1/2	3,751.32	1/2	3,440.51	1/2	3,116.18	1/2	2,784.99	1/2	2,453.78	1/2	2,122.52		
3/4	3/4	3/4	4,342.30	3/4	4,041.50	3/4	3,744.99	3/4	3,433.90	3/4	3,109.29	3/4	2,778.09	3/4	2,446.88	3/4	2,115.62		
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,335.40</b>	<b>7</b>	<b>4,035.46</b>	<b>7</b>	<b>3,738.64</b>	<b>7</b>	<b>3,427.27</b>	<b>7</b>	<b>3,102.39</b>	<b>7</b>	<b>2,771.19</b>	<b>7</b>	<b>2,439.98</b>	<b>7</b>	<b>2,108.72</b>		
1/4	1/4	1/4	4,328.50	1/4	4,029.42	1/4	3,732.29	1/4	3,420.64	1/4	3,095.49	1/4	2,764.29	1/4	2,433.08	1/4	2,101.81		
1/2	1/2	1/2	4,321.59	1/2	4,023.38	1/2	3,725.93	1/2	3,414.01	1/2	3,088.59	1/2	2,757.39	1/2	2,426.18	1/2	2,094.91		
3/4	3/4	3/4	4,314.69	3/4	4,017.34	3/4	3,719.58	3/4	3,407.38	3/4	3,081.69	3/4	2,750.49	3/4	2,419.28	3/4	2,088.01		
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,307.79</b>	<b>8</b>	<b>4,011.28</b>	<b>8</b>	<b>3,713.21</b>	<b>8</b>	<b>3,400.72</b>	<b>8</b>	<b>3,074.79</b>	<b>8</b>	<b>2,743.59</b>	<b>8</b>	<b>2,412.38</b>	<b>8</b>	<b>2,081.11</b>		
1/4	1/4	1/4	4,300.89	1/4	4,005.22	1/4	3,706.83	1/4	3,394.06	1/4	3,067.89	1/4	2,736.69	1/4	2,405.48	1/4	2,074.21		
1/2	1/2	1/2	4,293.99	1/2	3,999.16	1/2	3,700.46	1/2	3,387.40	1/2	3,060.99	1/2	2,729.79	1/2	2,398.58	1/2	2,067.31		
3/4	3/4	3/4	4,287.09	3/4	3,993.10	3/4	3,694.09	3/4	3,380.74	3/4	3,054.09	3/4	2,722.89	3/4	2,391.67	3/4	2,060.41		
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,280.19</b>	<b>9</b>	<b>3,987.02</b>	<b>9</b>	<b>3,687.68</b>	<b>9</b>	<b>3,374.06</b>	<b>9</b>	<b>3,047.19</b>	<b>9</b>	<b>2,715.99</b>	<b>9</b>	<b>2,384.77</b>	<b>9</b>	<b>2,053.51</b>		
1/4	1/4	1/4	4,273.29	1/4	3,980.93	1/4	3,681.28	1/4	3,367.38	1/4	3,040.29	1/4	2,709.09	1/4	2,377.87	1/4	2,046.60		
1/2	1/2	1/2	4,266.38	1/2	3,974.85	1/2	3,674.88	1/2	3,360.70	1/2	3,033.39	1/2	2,702.19	1/2	2,370.97	1/2	2,039.70		
3/4	3/4	3/4	4,259.48	3/4	3,968.77	3/4	3,668.48	3/4	3,354.02	3/4	3,026.49	3/4	2,695.29	3/4	2,364.07	3/4	2,032.80		
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,252.58</b>	<b>10</b>	<b>3,962.66</b>	<b>10</b>	<b>3,662.06</b>	<b>10</b>	<b>3,347.32</b>	<b>10</b>	<b>3,019.59</b>	<b>10</b>	<b>2,688.39</b>	<b>10</b>	<b>2,357.17</b>	<b>10</b>	<b>2,025.90</b>		
1/4	1/4	1/4	4,245.68	1/4	3,956.55	1/4	3,655.64	1/4	3,340.62	1/4	3,012.69	1/4	2,681.49	1/4	2,350.27	1/4	2,019.00		
1/2	1/2	1/2	4,238.78	1/2	3,950.44	1/2	3,649.21	1/2	3,333.92	1/2	3,005.79	1/2	2,674.59	1/2	2,343.36	1/2	2,012.10		
3/4	3/4	3/4	4,231.88	3/4	3,944.33	3/4	3,642.79	3/4	3,327.22	3/4	2,998.89	3/4	2,667.69	3/4	2,336.46	3/4	2,005.20		
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,225.99</b>	<b>11</b>	<b>3,938.20</b>	<b>11</b>	<b>3,636.35</b>	<b>11</b>	<b>3,320.49</b>	<b>11</b>	<b>2,991.99</b>	<b>11</b>	<b>2,660.79</b>	<b>11</b>	<b>2,329.56</b>	<b>11</b>	<b>1,998.29</b>		
1/4	1/4	1/4	4,220.10	1/4	3,932.07	1/4	3,629.90	1/4	3,313.76	1/4	2,985.09	1/4	2,653.89	1/4	2,322.66	1/4	1,991.39		
1/2	1/2	1/2	4,214.22	1/2	3,925.94	1/2	3,623.46	1/2	3,307.03	1/2	2,978.19	1/2	2,646.99	1/2	2,315.76	1/2	1,984.49		
3/4	3/4	3/4	4,208.33	3/4	3,919.81	3/4	3,617.02	3/4	3,300.30	3/4	2,971.29	3/4	2,640.09	3/4	2,308.86	3/4	1,977.59		

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "KIRBY 28149"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

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
	1,970.69		1,639.42		1,308.15		977.30		661.70		369.17		100.23						
1/4	1,963.79	1/4	1,632.52	1/4	1,301.25	1/4	970.48	1/4	655.37	1/4	363.33	1/4	94.88	1/4		1/4		1/4	
1/2	1,956.89	1/2	1,625.62	1/2	1,294.35	1/2	963.66	1/2	649.04	1/2	357.49	1/2	89.53	1/2		1/2		1/2	
3/4	1,949.98	3/4	1,618.72	3/4	1,287.45	3/4	956.84	3/4	642.71	3/4	351.65	3/4	84.19	3/4		3/4		3/4	
1	1,943.08	1	1,611.82	1	1,280.55	1	950.08	1	636.42	1	345.86	1	78.88	1		1		1	
1/4	1,936.18	1/4	1,604.91	1/4	1,273.65	1/4	943.31	1/4	630.13	1/4	340.06	1/4	73.58	1/4		1/4		1/4	
1/2	1,929.28	1/2	1,598.01	1/2	1,266.75	1/2	936.55	1/2	623.84	1/2	334.27	1/2	68.28	1/2		1/2		1/2	
3/4	1,922.38	3/4	1,591.11	3/4	1,259.84	3/4	929.79	3/4	617.56	3/4	328.47	3/4	62.98	3/4		3/4		3/4	
2	1,915.48	2	1,584.21	2	1,252.94	2	923.06	2	611.31	2	322.71	2	57.72	2		2		2	
1/4	1,908.58	1/4	1,577.31	1/4	1,246.04	1/4	916.34	1/4	605.06	1/4	316.95	1/4	52.45	1/4		1/4		1/4	
1/2	1,901.67	1/2	1,570.41	1/2	1,239.14	1/2	909.62	1/2	598.81	1/2	311.20	1/2	47.19	1/2		1/2		1/2	
3/4	1,894.77	3/4	1,563.51	3/4	1,232.24	3/4	902.89	3/4	592.56	3/4	305.44	3/4	41.92	3/4		3/4		3/4	
3	1,887.87	3	1,556.60	3	1,225.34	3	896.21	3	586.36	3	299.72	3	37.57	3		3		3	
1/4	1,880.97	1/4	1,549.70	1/4	1,218.44	1/4	889.53	1/4	580.15	1/4	294.01	1/4	33.21	1/4		1/4		1/4	
1/2	1,874.07	1/2	1,542.80	1/2	1,211.53	1/2	882.85	1/2	573.94	1/2	288.29	1/2	28.85	1/2		1/2		1/2	
3/4	1,867.17	3/4	1,535.90	3/4	1,204.63	3/4	876.16	3/4	567.74	3/4	282.58	3/4	24.50	3/4		3/4		3/4	
4	1,860.27	4	1,529.00	4	1,197.73	4	869.52	4	561.57	4	276.90	4	21.90	4		4		4	
1/4	1,853.36	1/4	1,522.10	1/4	1,190.83	1/4	862.88	1/4	555.40	1/4	271.23	1/4	19.31	1/4		1/4		1/4	
1/2	1,846.46	1/2	1,515.20	1/2	1,183.93	1/2	856.24	1/2	549.24	1/2	265.55	1/2	16.72	1/2		1/2		1/2	
3/4	1,839.56	3/4	1,508.29	3/4	1,177.03	3/4	849.60	3/4	543.07	3/4	259.88	3/4	14.13	3/4		3/4		3/4	
5	1,832.66	5	1,501.39	5	1,170.13	5	843.00	5	536.95	5	254.24	5		5		5		5	
1/4	1,825.76	1/4	1,494.49	1/4	1,163.22	1/4	836.40	1/4	530.82	1/4	248.61	1/4		1/4		1/4		1/4	
1/2	1,818.86	1/2	1,487.59	1/2	1,156.32	1/2	829.80	1/2	524.70	1/2	242.98	1/2		1/2		1/2		1/2	
3/4	1,811.96	3/4	1,480.69	3/4	1,149.42	3/4	823.20	3/4	518.57	3/4	237.35	3/4		3/4		3/4		3/4	
6	1,805.05	6	1,473.79	6	1,142.52	6	816.64	6	512.49	6	231.75	6		6		6		6	
1/4	1,798.15	1/4	1,466.89	1/4	1,135.62	1/4	810.08	1/4	506.40	1/4	226.16	1/4		1/4		1/4		1/4	
1/2	1,791.25	1/2	1,459.98	1/2	1,128.72	1/2	803.52	1/2	500.32	1/2	220.56	1/2		1/2		1/2		1/2	
3/4	1,784.35	3/4	1,453.08	3/4	1,121.82	3/4	796.96	3/4	494.23	3/4	214.97	3/4		3/4		3/4		3/4	
7	1,777.45	7	1,446.18	7	1,114.91	7	790.44	7	488.19	7	209.42	7		7		7		7	
1/4	1,770.55	1/4	1,439.28	1/4	1,108.01	1/4	783.92	1/4	482.15	1/4	203.87	1/4		1/4		1/4		1/4	
1/2	1,763.65	1/2	1,432.38	1/2	1,101.11	1/2	777.40	1/2	476.11	1/2	198.32	1/2		1/2		1/2		1/2	
3/4	1,756.74	3/4	1,425.48	3/4	1,094.21	3/4	770.88	3/4	470.06	3/4	192.77	3/4		3/4		3/4		3/4	
8	1,749.84	8	1,418.58	8	1,087.31	8	764.40	8	464.06	8	187.26	8		8		8		8	
1/4	1,742.94	1/4	1,411.67	1/4	1,080.41	1/4	757.93	1/4	458.06	1/4	181.74	1/4		1/4		1/4		1/4	
1/2	1,736.04	1/2	1,404.77	1/2	1,073.51	1/2	751.45	1/2	452.06	1/2	176.23	1/2		1/2		1/2		1/2	
3/4	1,729.14	3/4	1,397.87	3/4	1,066.61	3/4	744.97	3/4	446.05	3/4	170.72	3/4		3/4		3/4		3/4	
9	1,722.24	9	1,390.97	9	1,059.72	9	738.52	9	440.09	9	165.25	9		9		9		9	
1/4	1,715.34	1/4	1,384.07	1/4	1,052.82	1/4	732.06	1/4	434.13	1/4	159.78	1/4		1/4		1/4		1/4	
1/2	1,708.44	1/2	1,377.17	1/2	1,045.93	1/2	725.61	1/2	428.17	1/2	154.31	1/2		1/2		1/2		1/2	
3/4	1,701.53	3/4	1,370.27	3/4	1,039.04	3/4	719.16	3/4	422.21	3/4	148.84	3/4		3/4		3/4		3/4	
10	1,694.63	10	1,363.37	10	1,032.16	10	712.75	10	416.29	10	143.41	10		10		10		10	
1/4	1,687.73	1/4	1,356.46	1/4	1,025.29	1/4	706.34	1/4	410.37	1/4	137.98	1/4		1/4		1/4		1/4	
1/2	1,680.83	1/2	1,349.56	1/2	1,018.41	1/2	699.92	1/2	404.45	1/2	132.55	1/2		1/2		1/2		1/2	
3/4	1,673.93	3/4	1,342.66	3/4	1,011.53	3/4	693.51	3/4	398.53	3/4	127.11	3/4		3/4		3/4		3/4	
11	1,667.03	11	1,335.76	11	1,004.68	11	687.14	11	392.65	11	121.73	11		11		11		11	
1/4	1,660.13	1/4	1,328.86	1/4	997.83	1/4	680.77	1/4	386.77	1/4	116.34	1/4		1/4		1/4		1/4	
1/2	1,653.22	1/2	1,321.96	1/2	990.98	1/2	674.40	1/2	380.89	1/2	110.96	1/2		1/2		1/2		1/2	
3/4	1,646.32	3/4	1,315.06	3/4	984.12	3/4	668.03	3/4	375.01	3/4	105.57	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 28149"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

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	4,198.44	0	3,909.83	0	3,606.88	0	3,290.05	0	2,961.06	0	2,630.03	0	2,298.98
1/4		1/4		1/4		1/4	4,192.53	1/4	3,903.68	1/4	3,600.41	1/4	3,283.30	1/4	2,954.16	1/4	2,623.14	1/4	2,292.08
1/2		1/2		1/2		1/2	4,186.63	1/2	3,897.53	1/2	3,593.94	1/2	3,276.56	1/2	2,947.27	1/2	2,616.24	1/2	2,285.18
3/4		3/4		3/4		3/4	4,180.73	3/4	3,891.38	3/4	3,587.47	3/4	3,269.81	3/4	2,940.37	3/4	2,609.34	3/4	2,278.28
1		1		1		1	4,174.80	1	3,885.21	1	3,580.99	1	3,263.03	1	2,933.47	1	2,602.45	1	2,271.38
1/4		1/4		1/4		1/4	4,168.87	1/4	3,879.03	1/4	3,574.50	1/4	3,256.26	1/4	2,926.58	1/4	2,595.55	1/4	2,264.49
1/2		1/2		1/2		1/2	4,162.95	1/2	3,872.86	1/2	3,568.01	1/2	3,249.48	1/2	2,919.68	1/2	2,588.65	1/2	2,257.59
3/4		3/4		3/4		3/4	4,157.02	3/4	3,866.68	3/4	3,561.52	3/4	3,242.71	3/4	2,912.78	3/4	2,581.76	3/4	2,250.69
2		2		2		2	4,151.07	2	3,860.48	2	3,555.01	2	3,235.91	2	2,905.89	2	2,574.86	2	2,243.79
1/4		1/4		1/4		1/4	4,145.11	1/4	3,854.29	1/4	3,548.50	1/4	3,229.12	1/4	2,898.99	1/4	2,567.96	1/4	2,236.90
1/2		1/2		1/2		1/2	4,139.16	1/2	3,848.09	1/2	3,541.99	1/2	3,222.32	1/2	2,892.10	1/2	2,561.07	1/2	2,230.00
3/4		3/4		3/4		3/4	4,133.21	3/4	3,841.89	3/4	3,535.48	3/4	3,215.53	3/4	2,885.20	3/4	2,554.17	3/4	2,223.10
3		3		3		3	4,127.27	3	3,835.64	3	3,528.94	3	3,208.71	3	2,878.30	3	2,547.28	3	2,216.20
1/4		1/4		1/4		1/4	4,121.33	1/4	3,829.39	1/4	3,522.41	1/4	3,201.90	1/4	2,871.41	1/4	2,540.38	1/4	2,209.30
1/2		1/2		1/2		1/2	4,115.39	1/2	3,823.14	1/2	3,515.87	1/2	3,195.08	1/2	2,864.51	1/2	2,533.48	1/2	2,202.41
3/4		3/4		3/4		3/4	4,109.45	3/4	3,816.88	3/4	3,509.33	3/4	3,188.27	3/4	2,857.61	3/4	2,526.59	3/4	2,195.51
4		4		4		4	4,103.49	4	3,810.61	4	3,502.78	4	3,181.42	4	2,850.72	4	2,519.69	4	2,188.61
1/4		1/4		1/4		1/4	4,097.52	1/4	3,804.33	1/4	3,496.22	1/4	3,174.58	1/4	2,843.82	1/4	2,512.79	1/4	2,181.71
1/2		1/2		1/2		1/2	4,091.56	1/2	3,798.05	1/2	3,489.66	1/2	3,167.73	1/2	2,836.92	1/2	2,505.90	1/2	2,174.82
3/4		3/4		3/4		3/4	4,085.60	3/4	3,791.77	3/4	3,483.10	3/4	3,160.88	3/4	2,830.03	3/4	2,499.00	3/4	2,167.92
5		5		5		5	4,079.61	5	3,785.47	5	3,476.51	5	3,154.02	5	2,823.13	5	2,492.10	5	2,161.02
1/4		1/4		1/4		1/4	4,073.62	1/4	3,779.17	1/4	3,469.93	1/4	3,147.16	1/4	2,816.24	1/4	2,485.21	1/4	2,154.12
1/2		1/2		1/2		1/2	4,067.64	1/2	3,772.87	1/2	3,463.34	1/2	3,140.29	1/2	2,809.34	1/2	2,478.31	1/2	2,147.22
3/4		3/4		3/4		3/4	4,061.65	3/4	3,766.57	3/4	3,456.75	3/4	3,133.43	3/4	2,802.44	3/4	2,471.42	3/4	2,140.33
6		6		6		6	4,055.64	6	3,760.24	6	3,450.15	6	3,126.54	6	2,795.55	6	2,464.52	6	2,133.43
1/4		1/4		1/4	4,348.59	1/4	4,049.63	1/4	3,753.91	1/4	3,443.54	1/4	3,119.66	1/4	2,788.65	1/4	2,457.62	1/4	2,126.53
1/2		1/2		1/2	4,343.42	1/2	4,043.62	1/2	3,747.58	1/2	3,436.93	1/2	3,112.77	1/2	2,781.75	1/2	2,450.73	1/2	2,119.63
3/4		3/4		3/4	4,338.24	3/4	4,037.61	3/4	3,741.25	3/4	3,430.33	3/4	3,105.88	3/4	2,774.86	3/4	2,443.83	3/4	2,112.74
7		7		7	4,331.35	7	4,031.57	7	3,734.90	7	3,423.70	7	3,098.99	7	2,767.96	7	2,436.93	7	2,105.84
1/4		1/4		1/4	4,324.45	1/4	4,025.53	1/4	3,728.55	1/4	3,417.07	1/4	3,092.09	1/4	2,761.06	1/4	2,430.03	1/4	2,098.94
1/2		1/2		1/2	4,317.55	1/2	4,019.49	1/2	3,722.20	1/2	3,410.44	1/2	3,085.19	1/2	2,754.17	1/2	2,423.14	1/2	2,092.04
3/4		3/4		3/4	4,310.65	3/4	4,013.45	3/4	3,715.85	3/4	3,403.81	3/4	3,078.30	3/4	2,747.27	3/4	2,416.24	3/4	2,085.14
8		8		8	4,303.76	8	4,007.40	8	3,709.48	8	3,397.16	8	3,071.40	8	2,740.37	8	2,409.34	8	2,078.25
1/4		1/4		1/4	4,296.86	1/4	4,001.34	1/4	3,703.11	1/4	3,390.50	1/4	3,064.51	1/4	2,733.48	1/4	2,402.44	1/4	2,071.35
1/2		1/2		1/2	4,289.96	1/2	3,995.28	1/2	3,696.74	1/2	3,383.85	1/2	3,057.61	1/2	2,726.58	1/2	2,395.55	1/2	2,064.45
3/4		3/4		3/4	4,283.06	3/4	3,989.23	3/4	3,690.37	3/4	3,377.19	3/4	3,050.71	3/4	2,719.69	3/4	2,388.65	3/4	2,057.55
9		9		9	4,276.16	9	3,983.15	9	3,683.97	9	3,370.51	9	3,043.82	9	2,712.79	9	2,381.75	9	2,050.66
1/4		1/4		1/4	4,269.27	1/4	3,977.07	1/4	3,677.57	1/4	3,363.84	1/4	3,036.92	1/4	2,705.89	1/4	2,374.85	1/4	2,043.76
1/2		1/2		1/2	4,262.37	1/2	3,970.99	1/2	3,671.18	1/2	3,357.16	1/2	3,030.02	1/2	2,699.00	1/2	2,367.95	1/2	2,036.86
3/4		3/4		3/4	4,255.47	3/4	3,964.91	3/4	3,664.78	3/4	3,350.49	3/4	3,023.13	3/4	2,692.10	3/4	2,361.06	3/4	2,029.96
10		10		10	4,248.57	10	3,958.80	10	3,658.36	10	3,343.79	10	3,016.23	10	2,685.20	10	2,354.16	10	2,023.06
1/4		1/4		1/4	4,241.68	1/4	3,952.70	1/4	3,651.94	1/4	3,337.09	1/4	3,009.33	1/4	2,678.31	1/4	2,347.26	1/4	2,016.17
1/2		1/2		1/2	4,234.78	1/2	3,946.59	1/2	3,645.52	1/2	3,330.39	1/2	3,002.44	1/2	2,671.41	1/2	2,340.36	1/2	2,009.27
3/4		3/4		3/4	4,227.88	3/4	3,940.48	3/4	3,639.10	3/4	3,323.69	3/4	2,995.54	3/4	2,664.51	3/4	2,333.46	3/4	2,002.37
11		11		11	4,222.00	11	3,934.36	11	3,632.66	11	3,316.97	11	2,988.65	11	2,657.62	11	2,326.57	11	1,995.47
1/4		1/4		1/4	4,216.11	1/4	3,928.23	1/4	3,626.22	1/4	3,310.24	1/4	2,981.75	1/4	2,650.72	1/4	2,319.67	1/4	1,988.57
1/2		1/2		1/2	4,210.23	1/2	3,922.10	1/2	3,619.78	1/2	3,303.52	1/2	2,974.85	1/2	2,643.83	1/2	2,312.77	1/2	1,981.68
3/4		3/4		3/4	4,204.34	3/4	3,915.98	3/4	3,613.34	3/4	3,296.79	3/4	2,967.96	3/4	2,636.93	3/4	2,305.87	3/4	1,974.78

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 37'-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 28149"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,967.88	0	1,636.79	0	1,305.69	0	975.17	0	661.34	0	368.97	0	100.17	0		0		0	
1/4	1,960.98	1/4	1,629.89	1/4	1,298.79	1/4	968.39	1/4	655.01	1/4	363.13	1/4	94.83	1/4	1/4	1/4		1/4	
1/2	1,954.09	1/2	1,622.99	1/2	1,291.90	1/2	961.61	1/2	648.69	1/2	357.30	1/2	89.48	1/2	1/2	1/2		1/2	
3/4	1,947.19	3/4	1,616.09	3/4	1,285.00	3/4	954.83	3/4	642.36	3/4	351.46	3/4	84.14	3/4	3/4	3/4		3/4	
1	1,940.29	1	1,609.20	1	1,278.10	1	948.11	1	636.07	1	345.67	1	78.84	1	1	1		1	
1/4	1,933.39	1/4	1,602.30	1/4	1,271.20	1/4	941.38	1/4	629.79	1/4	339.88	1/4	73.54	1/4	1/4	1/4		1/4	
1/2	1,926.49	1/2	1,595.40	1/2	1,264.31	1/2	934.66	1/2	623.50	1/2	334.08	1/2	68.24	1/2	1/2	1/2		1/2	
3/4	1,919.60	3/4	1,588.50	3/4	1,257.41	3/4	927.94	3/4	617.22	3/4	328.29	3/4	62.94	3/4	3/4	3/4		3/4	
2	1,912.70	2	1,581.60	2	1,250.51	2	921.26	2	610.98	2	322.54	2	57.68	2	2	2		2	
1/4	1,905.80	1/4	1,574.71	1/4	1,243.61	1/4	914.58	1/4	604.73	1/4	316.78	1/4	52.42	1/4	1/4	1/4		1/4	
1/2	1,898.90	1/2	1,567.81	1/2	1,236.71	1/2	907.90	1/2	598.48	1/2	311.03	1/2	47.16	1/2	1/2	1/2		1/2	
3/4	1,892.01	3/4	1,560.91	3/4	1,229.82	3/4	901.21	3/4	592.24	3/4	305.27	3/4	41.90	3/4	3/4	3/4		3/4	
3	1,885.11	3	1,554.01	3	1,222.92	3	894.58	3	586.04	3	299.56	3	37.55	3	3	3		3	
1/4	1,878.21	1/4	1,547.12	1/4	1,216.02	1/4	887.94	1/4	579.83	1/4	293.85	1/4	33.19	1/4	1/4	1/4		1/4	
1/2	1,871.31	1/2	1,540.22	1/2	1,209.12	1/2	881.30	1/2	573.63	1/2	288.14	1/2	28.84	1/2	1/2	1/2		1/2	
3/4	1,864.41	3/4	1,533.32	3/4	1,202.23	3/4	874.66	3/4	567.43	3/4	282.43	3/4	24.48	3/4	3/4	3/4		3/4	
4	1,857.52	4	1,526.42	4	1,195.33	4	868.06	4	561.26	4	276.75	4	21.89	4	4	4		4	
1/4	1,850.62	1/4	1,519.52	1/4	1,188.43	1/4	861.46	1/4	555.10	1/4	271.08	1/4	19.30	1/4	1/4	1/4		1/4	
1/2	1,843.72	1/2	1,512.63	1/2	1,181.53	1/2	854.86	1/2	548.94	1/2	265.41	1/2	16.71	1/2	1/2	1/2		1/2	
3/4	1,836.82	3/4	1,505.73	3/4	1,174.63	3/4	848.26	3/4	542.77	3/4	259.73	3/4	14.12	3/4	3/4	3/4		3/4	
5	1,829.93	5	1,498.83	5	1,167.74	5	841.70	5	536.65	5	254.10	5		5	5	5		5	
1/4	1,823.03	1/4	1,491.93	1/4	1,160.84	1/4	835.14	1/4	530.53	1/4	248.48	1/4		1/4	1/4	1/4		1/4	
1/2	1,816.13	1/2	1,485.04	1/2	1,153.94	1/2	828.58	1/2	524.41	1/2	242.85	1/2		1/2	1/2	1/2		1/2	
3/4	1,809.23	3/4	1,478.14	3/4	1,147.04	3/4	822.03	3/4	518.29	3/4	237.22	3/4		3/4	3/4	3/4		3/4	
6	1,802.33	6	1,471.24	6	1,140.15	6	815.51	6	512.21	6	231.63	6		6	6	6		6	
1/4	1,795.44	1/4	1,464.34	1/4	1,133.25	1/4	808.99	1/4	506.13	1/4	226.03	1/4		1/4	1/4	1/4		1/4	
1/2	1,788.54	1/2	1,457.44	1/2	1,126.35	1/2	802.47	1/2	500.05	1/2	220.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,781.64	3/4	1,450.55	3/4	1,119.45	3/4	795.95	3/4	493.96	3/4	214.85	3/4		3/4	3/4	3/4		3/4	
7	1,774.74	7	1,443.65	7	1,112.55	7	789.48	7	487.93	7	209.30	7		7	7	7		7	
1/4	1,767.85	1/4	1,436.75	1/4	1,105.66	1/4	783.00	1/4	481.89	1/4	203.76	1/4		1/4	1/4	1/4		1/4	
1/2	1,760.95	1/2	1,429.85	1/2	1,098.76	1/2	776.52	1/2	475.85	1/2	198.21	1/2		1/2	1/2	1/2		1/2	
3/4	1,754.05	3/4	1,422.96	3/4	1,091.86	3/4	770.05	3/4	469.81	3/4	192.66	3/4		3/4	3/4	3/4		3/4	
8	1,747.15	8	1,416.06	8	1,084.96	8	763.61	8	463.81	8	187.15	8		8	8	8		8	
1/4	1,740.25	1/4	1,409.16	1/4	1,078.07	1/4	757.17	1/4	457.81	1/4	181.64	1/4		1/4	1/4	1/4		1/4	
1/2	1,733.36	1/2	1,402.26	1/2	1,071.17	1/2	750.74	1/2	451.81	1/2	176.13	1/2		1/2	1/2	1/2		1/2	
3/4	1,726.46	3/4	1,395.36	3/4	1,064.27	3/4	744.30	3/4	445.81	3/4	170.62	3/4		3/4	3/4	3/4		3/4	
9	1,719.56	9	1,388.47	9	1,057.39	9	737.89	9	439.85	9	165.16	9		9	9	9		9	
1/4	1,712.66	1/4	1,381.57	1/4	1,050.50	1/4	731.48	1/4	433.89	1/4	159.69	1/4		1/4	1/4	1/4		1/4	
1/2	1,705.77	1/2	1,374.67	1/2	1,043.61	1/2	725.06	1/2	427.94	1/2	154.23	1/2		1/2	1/2	1/2		1/2	
3/4	1,698.87	3/4	1,367.77	3/4	1,036.72	3/4	718.65	3/4	421.98	3/4	148.76	3/4		3/4	3/4	3/4		3/4	
10	1,691.97	10	1,360.88	10	1,029.85	10	712.27	10	416.06	10	143.33	10		10	10	10		10	
1/4	1,685.07	1/4	1,353.98	1/4	1,022.97	1/4	705.89	1/4	410.14	1/4	137.90	1/4		1/4	1/4	1/4		1/4	
1/2	1,678.17	1/2	1,347.08	1/2	1,016.10	1/2	699.51	1/2	404.23	1/2	132.47	1/2		1/2	1/2	1/2		1/2	
3/4	1,671.28	3/4	1,340.18	3/4	1,009.23	3/4	693.13	3/4	398.31	3/4	127.04	3/4		3/4	3/4	3/4		3/4	
11	1,664.38	11	1,333.28	11	1,002.41	11	686.77	11	392.43	11	121.66	11		11	11	11		11	
1/4	1,657.48	1/4	1,326.39	1/4	995.59	1/4	680.40	1/4	386.56	1/4	116.28	1/4		1/4	1/4	1/4		1/4	
1/2	1,650.58	1/2	1,319.49	1/2	988.77	1/2	674.03	1/2	380.68	1/2	110.90	1/2		1/2	1/2	1/2		1/2	
3/4	1,643.68	3/4	1,312.59	3/4	981.95	3/4	667.67	3/4	374.81	3/4	105.52	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 28149"

## 2 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,099.56	0	4,762.75	0	4,408.49	0	4,037.56	0	3,652.22	0	3,264.31	0	2,876.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.64	1/4	4,755.57	1/4	4,400.91	1/4	4,029.65	1/4	3,644.14	1/4	3,256.23	1/4	2,868.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,085.72	1/2	4,748.40	1/2	4,393.34	1/2	4,021.75	1/2	3,636.06	1/2	3,248.14	1/2	2,860.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,078.80	3/4	4,741.22	3/4	4,385.76	3/4	4,013.84	3/4	3,627.97	3/4	3,240.06	3/4	2,852.10		
1		1		1		1	5,071.88	1	4,734.05	1	4,378.18	1	4,005.94	1	3,619.89	1	3,231.98	1	2,844.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,064.93	1/4	4,726.85	1/4	4,370.58	1/4	3,998.00	1/4	3,611.81	1/4	3,223.90	1/4	2,835.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,057.99	1/2	4,719.64	1/2	4,362.97	1/2	3,990.06	1/2	3,603.73	1/2	3,215.82	1/2	2,827.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,051.04	3/4	4,712.44	3/4	4,355.37	3/4	3,982.12	3/4	3,595.65	3/4	3,207.74	3/4	2,819.76		
2		2		2		2	5,044.10	2	4,705.23	2	4,347.77	2	3,974.18	2	3,587.57	2	3,199.66	2	2,811.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.12	1/4	4,698.00	1/4	4,340.14	1/4	3,966.22	1/4	3,579.49	1/4	3,191.57	1/4	2,803.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,030.14	1/2	4,690.77	1/2	4,332.51	1/2	3,958.25	1/2	3,571.40	1/2	3,183.49	1/2	2,795.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,023.17	3/4	4,683.54	3/4	4,324.88	3/4	3,950.29	3/4	3,563.32	3/4	3,175.41	3/4	2,787.42		
3		3		3		3	5,016.19	3	4,676.31	3	4,317.25	3	3,942.33	3	3,555.24	3	3,167.33	3	2,779.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,009.26	1/4	4,668.98	1/4	4,309.59	1/4	3,934.34	1/4	3,547.16	1/4	3,159.25	1/4	2,771.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,002.33	1/2	4,661.66	1/2	4,301.93	1/2	3,926.36	1/2	3,539.08	1/2	3,151.17	1/2	2,763.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.40	3/4	4,654.33	3/4	4,294.27	3/4	3,918.37	3/4	3,531.00	3/4	3,143.08	3/4	2,755.09		
4		4		4		4	4,988.47	4	4,647.00	4	4,286.61	4	3,910.38	4	3,522.92	4	3,135.00	4	2,747.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,981.51	1/4	4,639.65	1/4	4,278.93	1/4	3,902.36	1/4	3,514.83	1/4	3,126.92	1/4	2,738.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.56	1/2	4,632.29	1/2	4,271.24	1/2	3,894.34	1/2	3,506.75	1/2	3,118.84	1/2	2,730.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,967.60	3/4	4,624.93	3/4	4,263.56	3/4	3,886.32	3/4	3,498.67	3/4	3,110.76	3/4	2,722.75		
5		5		5		5	4,960.64	5	4,617.57	5	4,255.87	5	3,878.30	5	3,490.59	5	3,102.68	5	2,714.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,953.66	1/4	4,610.19	1/4	4,248.16	1/4	3,870.26	1/4	3,482.51	1/4	3,094.60	1/4	2,706.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,946.67	1/2	4,602.81	1/2	4,240.44	1/2	3,862.21	1/2	3,474.43	1/2	3,086.51	1/2	2,698.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,939.68	3/4	4,595.42	3/4	4,232.72	3/4	3,854.17	3/4	3,466.34	3/4	3,078.43	3/4	2,690.42		
6		6		6		6	4,932.70	6	4,588.04	6	4,225.00	6	3,846.13	6	3,458.26	6	3,070.35	6	2,682.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,925.68	1/4	4,580.62	1/4	4,217.26	1/4	3,838.06	1/4	3,450.18	1/4	3,062.27	1/4	2,674.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,268.61	1/2	4,918.67	1/2	4,573.21	1/2	4,209.52	1/2	3,829.99	1/2	3,442.10	1/2	3,054.19	1/2	2,666.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,262.55	3/4	4,911.66	3/4	4,565.79	3/4	4,201.77	3/4	3,821.92	3/4	3,434.02	3/4	3,046.11	3/4	2,658.08
7		7		7		7	5,256.48	7	4,904.65	7	4,558.37	7	4,194.03	7	3,813.85	7	3,425.94	7	3,038.03	7	2,650.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,248.40	1/4	4,897.60	1/4	4,550.93	1/4	4,186.27	1/4	3,805.77	1/4	3,417.86	1/4	3,029.94	1/4	2,641.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,240.32	1/2	4,890.56	1/2	4,543.49	1/2	4,178.50	1/2	3,797.69	1/2	3,409.77	1/2	3,021.86	1/2	2,633.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,232.23	3/4	4,883.51	3/4	4,536.05	3/4	4,170.73	3/4	3,789.60	3/4	3,401.69	3/4	3,013.77	3/4	2,625.75
8		8		8		8	5,224.15	8	4,876.47	8	4,528.61	8	4,162.97	8	3,781.52	8	3,393.61	8	3,005.69	8	2,617.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,216.06	1/4	4,869.40	1/4	4,521.15	1/4	4,155.17	1/4	3,773.44	1/4	3,385.53	1/4	2,997.61	1/4	2,609.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,207.98	1/2	4,862.34	1/2	4,513.68	1/2	4,147.37	1/2	3,765.36	1/2	3,377.45	1/2	2,989.52	1/2	2,601.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,199.90	3/4	4,855.27	3/4	4,506.22	3/4	4,139.57	3/4	3,757.28	3/4	3,369.37	3/4	2,981.44	3/4	2,593.41
9		9		9		9	5,191.81	9	4,848.20	9	4,498.75	9	4,131.77	9	3,749.20	9	3,361.29	9	2,973.35	9	2,585.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,183.73	1/4	4,841.11	1/4	4,491.26	1/4	4,123.94	1/4	3,741.12	1/4	3,353.20	1/4	2,965.27	1/4	2,577.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,175.64	1/2	4,834.02	1/2	4,483.76	1/2	4,116.12	1/2	3,733.03	1/2	3,345.12	1/2	2,957.19	1/2	2,569.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,167.56	3/4	4,826.93	3/4	4,476.26	3/4	4,108.30	3/4	3,724.95	3/4	3,337.04	3/4	2,949.10	3/4	2,561.08
10		10		10		10	5,159.48	10	4,819.84	10	4,468.76	10	4,100.47	10	3,716.87	10	3,328.96	10	2,941.02	10	2,552.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,151.39	1/4	4,812.71	1/4	4,461.24	1/4	4,092.63	1/4	3,708.79	1/4	3,320.88	1/4	2,932.93	1/4	2,544.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,143.31	1/2	4,805.59	1/2	4,453.72	1/2	4,084.78	1/2	3,700.71	1/2	3,312.80	1/2	2,924.85	1/2	2,536.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.22	3/4	4,798.46	3/4	4,446.20	3/4	4,076.93	3/4	3,692.63	3/4	3,304.71	3/4	2,916.77	3/4	2,528.74
11		11		11		11	5,127.14	11	4,791.34	11	4,438.68	11	4,069.08	11	3,684.55	11	3,296.63	11	2,908.68	11	2,520.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,120.24	1/4	4,784.19	1/4	4,431.13	1/4	4,061.20	1/4	3,676.46	1/4	3,288.55	1/4	2,900.60	1/4	2,512.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,113.35	1/2	4,777.04	1/2	4,423.59	1/2	4,053.32	1/2	3,668.38	1/2	3,280.47	1/2	2,892.52	1/2	2,504.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,106.45	3/4	4,769.89	3/4	4,416.04	3/4	4,045.44	3/4	3,660.30	3/4	3,272.39	3/4	2,884.43	3/4	2,496.40

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 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 "KIRBY 28149"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,488.32	0	2,100.29	0	1,712.27	0	1,324.24	0	936.21	0	549.05	0	161.44	0		0		0	
1/4	2,480.24	1/4	2,092.21	1/4	1,704.18	1/4	1,316.15	1/4	928.13	1/4	540.97	1/4	153.36	1/4		1/4		1/4	
1/2	2,472.15	1/2	2,084.13	1/2	1,696.10	1/2	1,308.07	1/2	920.04	1/2	532.90	1/2	145.29	1/2		1/2		1/2	
3/4	2,464.07	3/4	2,076.04	3/4	1,688.01	3/4	1,299.99	3/4	911.96	3/4	524.82	3/4	137.21	3/4		3/4		3/4	
1	2,455.98	1	2,067.96	1	1,679.93	1	1,291.90	1	903.88	1	516.75	1	129.14	1		1		1	
1/4	2,447.90	1/4	2,059.87	1/4	1,671.85	1/4	1,283.82	1/4	895.80	1/4	508.67	1/4	121.06	1/4		1/4		1/4	
1/2	2,439.82	1/2	2,051.79	1/2	1,663.76	1/2	1,275.74	1/2	887.73	1/2	500.60	1/2	112.99	1/2		1/2		1/2	
3/4	2,431.73	3/4	2,043.71	3/4	1,655.68	3/4	1,267.65	3/4	879.66	3/4	492.52	3/4	104.91	3/4		3/4		3/4	
2	2,423.65	2	2,035.62	2	1,647.59	2	1,259.57	2	871.59	2	484.45	2	96.84	2		2		2	
1/4	2,415.56	1/4	2,027.54	1/4	1,639.51	1/4	1,251.48	1/4	863.53	1/4	476.37	1/4	88.76	1/4		1/4		1/4	
1/2	2,407.48	1/2	2,019.45	1/2	1,631.43	1/2	1,243.40	1/2	855.47	1/2	468.30	1/2	80.69	1/2		1/2		1/2	
3/4	2,399.40	3/4	2,011.37	3/4	1,623.34	3/4	1,235.32	3/4	847.41	3/4	460.22	3/4	72.61	3/4		3/4		3/4	
3	2,391.31	3	2,003.29	3	1,615.26	3	1,227.23	3	839.35	3	452.15	3	64.54	3		3		3	
1/4	2,383.23	1/4	1,995.20	1/4	1,607.17	1/4	1,219.15	1/4	831.29	1/4	444.07	1/4	57.47	1/4		1/4		1/4	
1/2	2,375.15	1/2	1,987.12	1/2	1,599.09	1/2	1,211.06	1/2	823.23	1/2	436.00	1/2	50.40	1/2		1/2		1/2	
3/4	2,367.06	3/4	1,979.03	3/4	1,591.01	3/4	1,202.98	3/4	815.17	3/4	427.92	3/4	43.34	3/4		3/4		3/4	
4	2,358.98	4	1,970.95	4	1,582.92	4	1,194.90	4	807.11	4	419.84	4	36.27	4		4		4	
1/4	2,350.89	1/4	1,962.87	1/4	1,574.84	1/4	1,186.81	1/4	799.05	1/4	411.77	1/4	31.23	1/4		1/4		1/4	
1/2	2,342.81	1/2	1,954.78	1/2	1,566.76	1/2	1,178.73	1/2	790.99	1/2	403.69	1/2	26.19	1/2		1/2		1/2	
3/4	2,334.73	3/4	1,946.70	3/4	1,558.67	3/4	1,170.64	3/4	782.93	3/4	395.62	3/4	21.14	3/4		3/4		3/4	
5	2,326.64	5	1,938.61	5	1,550.59	5	1,162.56	5	774.88	5	387.54	5	16.10	5		5		5	
1/4	2,318.56	1/4	1,930.53	1/4	1,542.50	1/4	1,154.48	1/4	766.82	1/4	379.47	1/4		1/4		1/4		1/4	
1/2	2,310.47	1/2	1,922.45	1/2	1,534.42	1/2	1,146.39	1/2	758.76	1/2	371.39	1/2		1/2		1/2		1/2	
3/4	2,302.39	3/4	1,914.36	3/4	1,526.34	3/4	1,138.31	3/4	750.70	3/4	363.32	3/4		3/4		3/4		3/4	
6	2,294.31	6	1,906.28	6	1,518.25	6	1,130.22	6	742.64	6	355.24	6		6		6		6	
1/4	2,286.22	1/4	1,898.20	1/4	1,510.17	1/4	1,122.14	1/4	734.58	1/4	347.17	1/4		1/4		1/4		1/4	
1/2	2,278.14	1/2	1,890.11	1/2	1,502.08	1/2	1,114.06	1/2	726.52	1/2	339.09	1/2		1/2		1/2		1/2	
3/4	2,270.05	3/4	1,882.03	3/4	1,494.00	3/4	1,105.97	3/4	718.46	3/4	331.02	3/4		3/4		3/4		3/4	
7	2,261.97	7	1,873.94	7	1,485.92	7	1,097.89	7	710.40	7	322.94	7		7		7		7	
1/4	2,253.89	1/4	1,865.86	1/4	1,477.83	1/4	1,089.81	1/4	702.34	1/4	314.87	1/4		1/4		1/4		1/4	
1/2	2,245.80	1/2	1,857.78	1/2	1,469.75	1/2	1,081.72	1/2	694.28	1/2	306.79	1/2		1/2		1/2		1/2	
3/4	2,237.72	3/4	1,849.69	3/4	1,461.66	3/4	1,073.64	3/4	686.22	3/4	298.72	3/4		3/4		3/4		3/4	
8	2,229.64	8	1,841.61	8	1,453.58	8	1,065.55	8	678.16	8	290.64	8		8		8		8	
1/4	2,221.55	1/4	1,833.52	1/4	1,445.50	1/4	1,057.47	1/4	670.10	1/4	282.57	1/4		1/4		1/4		1/4	
1/2	2,213.47	1/2	1,825.44	1/2	1,437.41	1/2	1,049.39	1/2	662.04	1/2	274.49	1/2		1/2		1/2		1/2	
3/4	2,205.38	3/4	1,817.36	3/4	1,429.33	3/4	1,041.30	3/4	653.98	3/4	266.42	3/4		3/4		3/4		3/4	
9	2,197.30	9	1,809.27	9	1,421.25	9	1,033.22	9	645.92	9	258.34	9		9		9		9	
1/4	2,189.22	1/4	1,801.19	1/4	1,413.16	1/4	1,025.13	1/4	637.85	1/4	250.27	1/4		1/4		1/4		1/4	
1/2	2,181.13	1/2	1,793.10	1/2	1,405.08	1/2	1,017.05	1/2	629.79	1/2	242.19	1/2		1/2		1/2		1/2	
3/4	2,173.05	3/4	1,785.02	3/4	1,396.99	3/4	1,008.97	3/4	621.72	3/4	234.12	3/4		3/4		3/4		3/4	
10	2,164.96	10	1,776.94	10	1,388.91	10	1,000.88	10	613.65	10	226.04	10		10		10		10	
1/4	2,156.88	1/4	1,768.85	1/4	1,380.83	1/4	992.80	1/4	605.57	1/4	217.96	1/4		1/4		1/4		1/4	
1/2	2,148.80	1/2	1,760.77	1/2	1,372.74	1/2	984.71	1/2	597.50	1/2	209.89	1/2		1/2		1/2		1/2	
3/4	2,140.71	3/4	1,752.69	3/4	1,364.66	3/4	976.63	3/4	589.42	3/4	201.81	3/4		3/4		3/4		3/4	
11	2,132.63	11	1,744.60	11	1,356.57	11	968.55	11	581.35	11	193.74	11		11		11		11	
1/4	2,124.54	1/4	1,736.52	1/4	1,348.49	1/4	960.46	1/4	573.27	1/4	185.66	1/4		1/4		1/4		1/4	
1/2	2,116.46	1/2	1,728.43	1/2	1,340.41	1/2	952.38	1/2	565.20	1/2	177.59	1/2		1/2		1/2		1/2	
3/4	2,108.38	3/4	1,720.35	3/4	1,332.32	3/4	944.30	3/4	557.12	3/4	169.51	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 28149"

## 2 STBD 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,091.79	0	4,754.56	0	4,399.87	0	4,028.49	0	3,642.69	0	3,254.31	0	2,865.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,084.86	1/4	4,747.38	1/4	4,392.28	1/4	4,020.57	1/4	3,634.60	1/4	3,246.22	1/4	2,857.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,077.93	1/2	4,740.19	1/2	4,384.70	1/2	4,012.66	1/2	3,626.50	1/2	3,238.13	1/2	2,849.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.00	3/4	4,733.01	3/4	4,377.11	3/4	4,004.74	3/4	3,618.41	3/4	3,230.04	3/4	2,841.60		
1		1		1		1	5,064.08	1	4,725.83	1	4,369.52	1	3,996.83	1	3,610.32	1	3,221.94	1	2,833.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,057.12	1/4	4,718.61	1/4	4,361.91	1/4	3,988.88	1/4	3,602.23	1/4	3,213.85	1/4	2,825.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,050.17	1/2	4,711.40	1/2	4,354.30	1/2	3,980.93	1/2	3,594.14	1/2	3,205.76	1/2	2,817.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,043.21	3/4	4,704.19	3/4	4,346.68	3/4	3,972.98	3/4	3,586.05	3/4	3,197.67	3/4	2,809.23		
2		2		2		2	5,036.26	2	4,696.97	2	4,339.07	2	3,965.03	2	3,577.96	2	3,189.58	2	2,801.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,029.28	1/4	4,689.73	1/4	4,331.43	1/4	3,957.06	1/4	3,569.87	1/4	3,181.49	1/4	2,793.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,022.29	1/2	4,682.49	1/2	4,323.80	1/2	3,949.09	1/2	3,561.77	1/2	3,173.40	1/2	2,784.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,015.30	3/4	4,675.26	3/4	4,316.16	3/4	3,941.12	3/4	3,553.68	3/4	3,165.31	3/4	2,776.85		
3		3		3		3	5,008.32	3	4,668.02	3	4,308.52	3	3,933.14	3	3,545.59	3	3,157.21	3	2,768.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,001.38	1/4	4,660.68	1/4	4,300.85	1/4	3,925.15	1/4	3,537.50	1/4	3,149.12	1/4	2,760.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,994.44	1/2	4,653.35	1/2	4,293.18	1/2	3,917.15	1/2	3,529.41	1/2	3,141.03	1/2	2,752.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,987.50	3/4	4,646.01	3/4	4,285.51	3/4	3,909.16	3/4	3,521.32	3/4	3,132.94	3/4	2,744.48		
4		4		4		4	4,980.56	4	4,638.67	4	4,277.85	4	3,901.16	4	3,513.23	4	3,124.85	4	2,736.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,973.60	1/4	4,631.31	1/4	4,270.15	1/4	3,893.13	1/4	3,505.14	1/4	3,116.76	1/4	2,728.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,966.63	1/2	4,623.94	1/2	4,262.46	1/2	3,885.10	1/2	3,497.04	1/2	3,108.67	1/2	2,720.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,959.67	3/4	4,616.57	3/4	4,254.76	3/4	3,877.07	3/4	3,488.95	3/4	3,100.58	3/4	2,712.10		
5		5		5		5	4,952.70	5	4,609.21	5	4,247.07	5	3,869.04	5	3,480.86	5	3,092.48	5	2,704.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.71	1/4	4,601.82	1/4	4,239.34	1/4	3,860.98	1/4	3,472.77	1/4	3,084.39	1/4	2,695.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,938.71	1/2	4,594.42	1/2	4,231.61	1/2	3,852.93	1/2	3,464.68	1/2	3,076.30	1/2	2,687.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,931.72	3/4	4,587.03	3/4	4,223.88	3/4	3,844.88	3/4	3,456.59	3/4	3,068.21	3/4	2,679.73		
6		6		6		6	4,924.72	6	4,579.64	6	4,216.15	6	3,836.82	6	3,448.50	6	3,060.12	6	2,671.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,917.70	1/4	4,572.21	1/4	4,208.40	1/4	3,828.75	1/4	3,440.41	1/4	3,052.03	1/4	2,663.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,261.05	1/2	4,910.68	1/2	4,564.79	1/2	4,200.65	1/2	3,820.67	1/2	3,432.32	1/2	3,043.94	1/2	2,655.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,254.98	3/4	4,903.66	3/4	4,557.36	3/4	4,192.90	3/4	3,812.59	3/4	3,424.22	3/4	3,035.85	3/4	2,647.36
7		7		7		7	5,248.91	7	4,896.64	7	4,549.93	7	4,185.15	7	3,804.51	7	3,416.13	7	3,027.76	7	2,639.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,240.81	1/4	4,889.58	1/4	4,542.49	1/4	4,177.37	1/4	3,796.42	1/4	3,408.04	1/4	3,019.66	1/4	2,631.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,232.72	1/2	4,882.53	1/2	4,535.04	1/2	4,169.60	1/2	3,788.33	1/2	3,399.95	1/2	3,011.57	1/2	2,623.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,224.63	3/4	4,875.48	3/4	4,527.59	3/4	4,161.82	3/4	3,780.24	3/4	3,391.86	3/4	3,003.47	3/4	2,614.98
8		8		8		8	5,216.53	8	4,868.42	8	4,520.14	8	4,154.05	8	3,772.15	8	3,383.77	8	2,995.38	8	2,606.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,208.44	1/4	4,861.35	1/4	4,512.67	1/4	4,146.24	1/4	3,764.05	1/4	3,375.68	1/4	2,987.29	1/4	2,598.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,200.35	1/2	4,854.27	1/2	4,505.19	1/2	4,138.43	1/2	3,755.96	1/2	3,367.59	1/2	2,979.19	1/2	2,590.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,192.25	3/4	4,847.20	3/4	4,497.72	3/4	4,130.62	3/4	3,747.87	3/4	3,359.49	3/4	2,971.10	3/4	2,582.61
9		9		9		9	5,184.16	9	4,840.12	9	4,490.24	9	4,122.81	9	3,739.78	9	3,351.40	9	2,963.01	9	2,574.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,176.06	1/4	4,833.02	1/4	4,482.74	1/4	4,114.98	1/4	3,731.69	1/4	3,343.31	1/4	2,954.91	1/4	2,566.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,167.97	1/2	4,825.92	1/2	4,475.23	1/2	4,107.14	1/2	3,723.60	1/2	3,335.22	1/2	2,946.82	1/2	2,558.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,159.88	3/4	4,818.82	3/4	4,467.72	3/4	4,099.31	3/4	3,715.51	3/4	3,327.13	3/4	2,938.73	3/4	2,550.23
10		10		10		10	5,151.78	10	4,811.72	10	4,460.22	10	4,091.48	10	3,707.42	10	3,319.04	10	2,930.63	10	2,542.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,143.69	1/4	4,804.59	1/4	4,452.69	1/4	4,083.62	1/4	3,699.32	1/4	3,310.95	1/4	2,922.54	1/4	2,534.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,135.60	1/2	4,797.45	1/2	4,445.16	1/2	4,075.76	1/2	3,691.23	1/2	3,302.86	1/2	2,914.44	1/2	2,525.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,127.50	3/4	4,790.32	3/4	4,437.63	3/4	4,067.90	3/4	3,683.14	3/4	3,294.76	3/4	2,906.35	3/4	2,517.86
11		11		11		11	5,119.41	11	4,783.19	11	4,430.10	11	4,060.05	11	3,675.05	11	3,286.67	11	2,898.26	11	2,509.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,112.50	1/4	4,776.03	1/4	4,422.54	1/4	4,052.16	1/4	3,666.96	1/4	3,278.58	1/4	2,890.16	1/4	2,501.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,105.60	1/2	4,768.87	1/2	4,414.98	1/2	4,044.27	1/2	3,658.87	1/2	3,270.49	1/2	2,882.07	1/2	2,493.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,098.69	3/4	4,761.72	3/4	4,407.43	3/4	4,036.38	3/4	3,650.78	3/4	3,262.40	3/4	2,873.98	3/4	2,485.48

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 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 "KIRBY 28149"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,477.39	0	2,088.90	0	1,700.40	0	1,311.91	0	924.03	0	550.62	0	162.17	0		0		0	
1/4	2,469.30	1/4	2,080.80	1/4	1,692.31	1/4	1,303.82	1/4	916.25	1/4	542.53	1/4	154.08	1/4	1/4		1/4		1/4
1/2	2,461.20	1/2	2,072.71	1/2	1,684.22	1/2	1,295.72	1/2	908.46	1/2	534.44	1/2	145.99	1/2	1/2		1/2		1/2
3/4	2,453.11	3/4	2,064.62	3/4	1,676.12	3/4	1,287.63	3/4	900.68	3/4	526.34	3/4	137.89	3/4	3/4		3/4		3/4
1	2,445.02	1	2,056.52	1	1,668.03	1	1,279.54	1	892.89	1	518.25	1	129.80	1	1		1		1
1/4	2,436.92	1/4	2,048.43	1/4	1,659.94	1/4	1,271.44	1/4	885.12	1/4	510.16	1/4	121.71	1/4	1/4		1/4		1/4
1/2	2,428.83	1/2	2,040.34	1/2	1,651.84	1/2	1,263.35	1/2	877.35	1/2	502.07	1/2	113.62	1/2	1/2		1/2		1/2
3/4	2,420.74	3/4	2,032.24	3/4	1,643.75	3/4	1,255.26	3/4	869.58	3/4	493.97	3/4	105.52	3/4	3/4		3/4		3/4
2	2,412.64	2	2,024.15	2	1,635.66	2	1,247.16	2	861.81	2	485.88	2	97.43	2	2		2		2
1/4	2,404.55	1/4	2,016.05	1/4	1,627.56	1/4	1,239.07	1/4	854.06	1/4	477.79	1/4	89.34	1/4	1/4		1/4		1/4
1/2	2,396.45	1/2	2,007.96	1/2	1,619.47	1/2	1,230.98	1/2	846.30	1/2	469.69	1/2	81.24	1/2	1/2		1/2		1/2
3/4	2,388.36	3/4	1,999.87	3/4	1,611.38	3/4	1,222.88	3/4	838.54	3/4	461.60	3/4	73.15	3/4	3/4		3/4		3/4
3	2,380.27	3	1,991.77	3	1,603.28	3	1,214.79	3	830.78	3	453.51	3	65.06	3	3		3		3
1/4	2,372.17	1/4	1,983.68	1/4	1,595.19	1/4	1,206.70	1/4	823.02	1/4	445.42	1/4	57.98	1/4	1/4		1/4		1/4
1/2	2,364.08	1/2	1,975.59	1/2	1,587.09	1/2	1,198.60	1/2	815.26	1/2	437.32	1/2	50.89	1/2	1/2		1/2		1/2
3/4	2,355.99	3/4	1,967.49	3/4	1,579.00	3/4	1,190.51	3/4	807.50	3/4	429.23	3/4	43.81	3/4	3/4		3/4		3/4
4	2,347.89	4	1,959.40	4	1,570.91	4	1,182.41	4	799.74	4	421.14	4	36.73	4	4		4		4
1/4	2,339.80	1/4	1,951.31	1/4	1,562.81	1/4	1,174.32	1/4	791.98	1/4	413.05	1/4	31.67	1/4	1/4		1/4		1/4
1/2	2,331.71	1/2	1,943.21	1/2	1,554.72	1/2	1,166.23	1/2	784.22	1/2	404.95	1/2	26.61	1/2	1/2		1/2		1/2
3/4	2,323.61	3/4	1,935.12	3/4	1,546.63	3/4	1,158.13	3/4	776.46	3/4	396.86	3/4	21.55	3/4	3/4		3/4		3/4
5	2,315.52	5	1,927.03	5	1,538.53	5	1,150.04	5	768.70	5	388.77	5	16.50	5	5		5		5
1/4	2,307.42	1/4	1,918.93	1/4	1,530.44	1/4	1,141.95	1/4	760.94	1/4	380.67	1/4		1/4	1/4		1/4		1/4
1/2	2,299.33	1/2	1,910.84	1/2	1,522.35	1/2	1,133.85	1/2	753.18	1/2	372.58	1/2		1/2	1/2		1/2		1/2
3/4	2,291.24	3/4	1,902.74	3/4	1,514.25	3/4	1,125.76	3/4	745.43	3/4	364.49	3/4		3/4	3/4		3/4		3/4
6	2,283.14	6	1,894.65	6	1,506.16	6	1,117.67	6	737.67	6	356.40	6		6	6		6		6
1/4	2,275.05	1/4	1,886.56	1/4	1,498.06	1/4	1,109.57	1/4	729.91	1/4	348.30	1/4		1/4	1/4		1/4		1/4
1/2	2,266.96	1/2	1,878.46	1/2	1,489.97	1/2	1,101.48	1/2	722.15	1/2	340.21	1/2		1/2	1/2		1/2		1/2
3/4	2,258.86	3/4	1,870.37	3/4	1,481.88	3/4	1,093.38	3/4	714.39	3/4	332.12	3/4		3/4	3/4		3/4		3/4
7	2,250.77	7	1,862.28	7	1,473.78	7	1,085.29	7	706.63	7	324.03	7		7	7		7		7
1/4	2,242.68	1/4	1,854.18	1/4	1,465.69	1/4	1,077.20	1/4	698.87	1/4	315.93	1/4		1/4	1/4		1/4		1/4
1/2	2,234.58	1/2	1,846.09	1/2	1,457.60	1/2	1,069.10	1/2	691.11	1/2	307.84	1/2		1/2	1/2		1/2		1/2
3/4	2,226.49	3/4	1,838.00	3/4	1,449.50	3/4	1,061.01	3/4	683.36	3/4	299.75	3/4		3/4	3/4		3/4		3/4
8	2,218.40	8	1,829.90	8	1,441.41	8	1,052.92	8	675.60	8	291.66	8		8	8		8		8
1/4	2,210.30	1/4	1,821.81	1/4	1,433.32	1/4	1,044.82	1/4	667.84	1/4	283.56	1/4		1/4	1/4		1/4		1/4
1/2	2,202.21	1/2	1,813.71	1/2	1,425.22	1/2	1,036.73	1/2	660.09	1/2	275.47	1/2		1/2	1/2		1/2		1/2
3/4	2,194.11	3/4	1,805.62	3/4	1,417.13	3/4	1,028.64	3/4	652.33	3/4	267.38	3/4		3/4	3/4		3/4		3/4
9	2,186.02	9	1,797.53	9	1,409.04	9	1,020.54	9	644.57	9	259.28	9		9	9		9		9
1/4	2,177.93	1/4	1,789.43	1/4	1,400.94	1/4	1,012.45	1/4	636.80	1/4	251.19	1/4		1/4	1/4		1/4		1/4
1/2	2,169.83	1/2	1,781.34	1/2	1,392.85	1/2	1,004.36	1/2	629.04	1/2	243.10	1/2		1/2	1/2		1/2		1/2
3/4	2,161.74	3/4	1,773.25	3/4	1,384.75	3/4	996.26	3/4	621.27	3/4	235.01	3/4		3/4	3/4		3/4		3/4
10	2,153.65	10	1,765.15	10	1,376.66	10	988.17	10	613.50	10	226.91	10		10	10		10		10
1/4	2,145.55	1/4	1,757.06	1/4	1,368.57	1/4	980.07	1/4	605.72	1/4	218.82	1/4		1/4	1/4		1/4		1/4
1/2	2,137.46	1/2	1,748.97	1/2	1,360.47	1/2	971.98	1/2	597.94	1/2	210.73	1/2		1/2	1/2		1/2		1/2
3/4	2,129.37	3/4	1,740.87	3/4	1,352.38	3/4	963.89	3/4	590.16	3/4	202.64	3/4		3/4	3/4		3/4		3/4
11	2,121.27	11	1,732.78	11	1,344.29	11	955.79	11	582.37	11	194.54	11		11	11		11		11
1/4	2,113.18	1/4	1,724.69	1/4	1,336.19	1/4	947.85	1/4	574.44	1/4	186.45	1/4		1/4	1/4		1/4		1/4
1/2	2,105.08	1/2	1,716.59	1/2	1,328.10	1/2	939.91	1/2	566.50	1/2	178.36	1/2		1/2	1/2		1/2		1/2
3/4	2,096.99	3/4	1,708.50	3/4	1,320.01	3/4	931.97	3/4	558.56	3/4	170.26	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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# BARGE "KIRBY 28149"

## 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,500.67		4,244.30		3,975.08		3,693.40		3,398.54		3,042.13		2,680.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,495.41	1/4	4,238.84	1/4	3,969.33	1/4	3,687.39	1/4	3,391.71	1/4	3,034.60	1/4	2,673.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,490.16	1/2	4,233.38	1/2	3,963.57	1/2	3,681.39	1/2	3,384.88	1/2	3,027.07	1/2	2,665.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.91	3/4	4,227.91	3/4	3,957.82	3/4	3,675.39	3/4	3,378.04	3/4	3,019.55	3/4	2,658.09		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,479.65</b>	<b>1</b>	<b>4,222.45</b>	<b>1</b>	<b>3,952.06</b>	<b>1</b>	<b>3,669.38</b>	<b>1</b>	<b>3,371.21</b>	<b>1</b>	<b>3,012.02</b>	<b>1</b>	<b>2,650.56</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.38	1/4	4,216.96	1/4	3,946.29	1/4	3,663.35	1/4	3,364.10	1/4	3,004.49	1/4	2,643.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,469.10	1/2	4,211.47	1/2	3,940.52	1/2	3,657.32	1/2	3,356.98	1/2	2,996.96	1/2	2,635.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,463.83	3/4	4,205.98	3/4	3,934.74	3/4	3,651.29	3/4	3,349.87	3/4	2,989.43	3/4	2,627.97		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,458.56</b>	<b>2</b>	<b>4,200.49</b>	<b>2</b>	<b>3,928.97</b>	<b>2</b>	<b>3,645.26</b>	<b>2</b>	<b>3,342.76</b>	<b>2</b>	<b>2,981.90</b>	<b>2</b>	<b>2,620.43</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,453.26	1/4	4,194.99	1/4	3,923.18	1/4	3,639.22	1/4	3,335.37	1/4	2,974.37	1/4	2,612.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.96	1/2	4,189.48	1/2	3,917.38	1/2	3,633.17	1/2	3,327.98	1/2	2,966.84	1/2	2,605.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,442.66	3/4	4,183.97	3/4	3,911.59	3/4	3,627.13	3/4	3,320.59	3/4	2,959.31	3/4	2,597.84		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,437.37</b>	<b>3</b>	<b>4,178.46</b>	<b>3</b>	<b>3,905.80</b>	<b>3</b>	<b>3,621.08</b>	<b>3</b>	<b>3,313.20</b>	<b>3</b>	<b>2,951.78</b>	<b>3</b>	<b>2,590.31</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,432.09	1/4	4,172.90	1/4	3,899.98	1/4	3,615.02	1/4	3,305.67	1/4	2,944.25	1/4	2,582.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.81	1/2	4,167.34	1/2	3,894.16	1/2	3,608.95	1/2	3,298.14	1/2	2,936.72	1/2	2,575.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,421.53	3/4	4,161.77	3/4	3,888.35	3/4	3,602.88	3/4	3,290.61	3/4	2,929.19	3/4	2,567.72		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,416.25</b>	<b>4</b>	<b>4,156.21</b>	<b>4</b>	<b>3,882.53</b>	<b>4</b>	<b>3,596.82</b>	<b>4</b>	<b>3,283.08</b>	<b>4</b>	<b>2,921.66</b>	<b>4</b>	<b>2,560.19</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.95	1/4	4,150.62	1/4	3,876.69	1/4	3,590.73	1/4	3,275.55	1/4	2,914.13	1/4	2,552.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.65	1/2	4,145.03	1/2	3,870.86	1/2	3,584.64	1/2	3,268.02	1/2	2,906.60	1/2	2,545.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,400.35	3/4	4,139.45	3/4	3,865.02	3/4	3,578.55	3/4	3,260.49	3/4	2,899.07	3/4	2,537.59		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,395.05</b>	<b>5</b>	<b>4,133.86</b>	<b>5</b>	<b>3,859.19</b>	<b>5</b>	<b>3,572.45</b>	<b>5</b>	<b>3,252.96</b>	<b>5</b>	<b>2,891.54</b>	<b>5</b>	<b>2,530.06</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.73	1/4	4,128.25	1/4	3,853.32	1/4	3,566.35	1/4	3,245.43	1/4	2,884.01	1/4	2,522.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,384.41	1/2	4,122.65	1/2	3,847.46	1/2	3,560.24	1/2	3,237.90	1/2	2,876.48	1/2	2,515.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,379.09	3/4	4,117.04	3/4	3,841.60	3/4	3,554.13	3/4	3,230.37	3/4	2,868.95	3/4	2,507.47		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,373.77</b>	<b>6</b>	<b>4,111.43</b>	<b>6</b>	<b>3,835.74</b>	<b>6</b>	<b>3,548.02</b>	<b>6</b>	<b>3,222.84</b>	<b>6</b>	<b>2,861.42</b>	<b>6</b>	<b>2,499.94</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,368.42	1/4	4,105.80	1/4	3,829.86	1/4	3,541.89	1/4	3,215.31	1/4	2,853.89	1/4	2,492.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,629.04	1/2	4,363.08	1/2	4,100.17	1/2	3,823.98	1/2	3,535.77	1/2	3,207.79	1/2	2,846.36	1/2	2,484.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.43	3/4	4,357.74	3/4	4,094.53	3/4	3,818.10	3/4	3,529.64	3/4	3,200.26	3/4	2,838.83	3/4	2,477.34
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,619.83</b>	<b>7</b>	<b>4,352.40</b>	<b>7</b>	<b>4,088.90</b>	<b>7</b>	<b>3,812.22</b>	<b>7</b>	<b>3,523.51</b>	<b>7</b>	<b>3,192.73</b>	<b>7</b>	<b>2,831.31</b>	<b>7</b>	<b>2,469.81</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.69	1/4	4,347.03	1/4	4,083.25	1/4	3,806.33	1/4	3,517.38	1/4	3,185.20	1/4	2,823.77	1/4	2,462.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.55	1/2	4,341.67	1/2	4,077.60	1/2	3,800.43	1/2	3,511.24	1/2	3,177.67	1/2	2,816.24	1/2	2,454.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.41	3/4	4,336.30	3/4	4,071.95	3/4	3,794.53	3/4	3,505.10	3/4	3,170.14	3/4	2,808.71	3/4	2,447.22
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,595.27</b>	<b>8</b>	<b>4,330.94</b>	<b>8</b>	<b>4,066.30</b>	<b>8</b>	<b>3,788.63</b>	<b>8</b>	<b>3,498.96</b>	<b>8</b>	<b>3,162.61</b>	<b>8</b>	<b>2,801.18</b>	<b>8</b>	<b>2,439.69</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.14	1/4	4,325.55	1/4	4,060.64	1/4	3,782.71	1/4	3,492.83	1/4	3,155.08	1/4	2,793.65	1/4	2,432.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,583.00	1/2	4,320.17	1/2	4,054.97	1/2	3,776.78	1/2	3,486.69	1/2	3,147.55	1/2	2,786.12	1/2	2,424.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.86	3/4	4,314.79	3/4	4,049.30	3/4	3,770.86	3/4	3,480.55	3/4	3,140.02	3/4	2,778.59	3/4	2,417.09
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,570.72</b>	<b>9</b>	<b>4,309.40</b>	<b>9</b>	<b>4,043.63</b>	<b>9</b>	<b>3,764.94</b>	<b>9</b>	<b>3,474.42</b>	<b>9</b>	<b>3,132.49</b>	<b>9</b>	<b>2,771.06</b>	<b>9</b>	<b>2,409.56</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,564.58	1/4	4,304.00	1/4	4,037.93	1/4	3,759.00	1/4	3,468.28	1/4	3,124.96	1/4	2,763.53	1/4	2,402.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.44	1/2	4,298.60	1/2	4,032.24	1/2	3,753.06	1/2	3,462.14	1/2	3,117.43	1/2	2,755.99	1/2	2,394.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,552.31	3/4	4,293.20	3/4	4,026.55	3/4	3,747.12	3/4	3,456.00	3/4	3,109.90	3/4	2,748.46	3/4	2,386.97
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,546.17</b>	<b>10</b>	<b>4,287.79</b>	<b>10</b>	<b>4,020.85</b>	<b>10</b>	<b>3,741.17</b>	<b>10</b>	<b>3,449.87</b>	<b>10</b>	<b>3,102.37</b>	<b>10</b>	<b>2,740.93</b>	<b>10</b>	<b>2,379.44</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.03	1/4	4,282.37	1/4	4,015.14	1/4	3,735.21	1/4	3,443.59	1/4	3,094.84	1/4	2,733.40	1/4	2,371.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.89	1/2	4,276.94	1/2	4,009.43	1/2	3,729.25	1/2	3,437.31	1/2	3,087.31	1/2	2,725.87	1/2	2,364.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,527.75	3/4	4,271.51	3/4	4,003.72	3/4	3,723.29	3/4	3,431.04	3/4	3,079.78	3/4	2,718.34	3/4	2,356.85
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,521.61</b>	<b>11</b>	<b>4,266.09</b>	<b>11</b>	<b>3,998.01</b>	<b>11</b>	<b>3,717.33</b>	<b>11</b>	<b>3,424.76</b>	<b>11</b>	<b>3,072.25</b>	<b>11</b>	<b>2,710.81</b>	<b>11</b>	<b>2,349.31</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,516.38	1/4	4,260.64	1/4	3,992.28	1/4	3,711.35	1/4	3,418.21	1/4	3,064.72	1/4	2,703.28	1/4	2,341.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,511.14	1/2	4,255.20	1/2	3,986.55	1/2	3,705.37	1/2	3,411.65	1/2	3,057.19	1/2	2,695.75	1/2	2,334.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,505.90	3/4	4,249.75	3/4	3,980.81	3/4	3,699.38	3/4	3,405.10	3/4	3,049.66	3/4	2,688.21	3/4	2,326.72

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 41'-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 28149"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,319.19	0	1,957.70	0	1,596.20	0	1,234.71	0	874.02	0	512.54	0	151.06	0		0		0	
1/4	2,311.66	1/4	1,950.17	1/4	1,588.67	1/4	1,227.18	1/4	866.49	1/4	505.01	1/4	143.53	1/4		1/4		1/4	
1/2	2,304.13	1/2	1,942.64	1/2	1,581.14	1/2	1,219.65	1/2	858.96	1/2	497.48	1/2	136.00	1/2		1/2		1/2	
3/4	2,296.60	3/4	1,935.10	3/4	1,573.61	3/4	1,212.12	3/4	851.43	3/4	489.95	3/4	128.47	3/4		3/4		3/4	
1	2,289.07	1	1,927.57	1	1,566.08	1	1,204.59	1	843.90	1	482.42	1	120.94	1		1		1	
1/4	2,281.53	1/4	1,920.04	1/4	1,558.55	1/4	1,197.06	1/4	836.37	1/4	474.89	1/4	113.41	1/4		1/4		1/4	
1/2	2,274.00	1/2	1,912.51	1/2	1,551.02	1/2	1,189.53	1/2	828.83	1/2	467.36	1/2	105.88	1/2		1/2		1/2	
3/4	2,266.47	3/4	1,904.98	3/4	1,543.49	3/4	1,181.99	3/4	821.30	3/4	459.83	3/4	98.35	3/4		3/4		3/4	
2	2,258.94	2	1,897.45	2	1,535.96	2	1,174.46	2	813.77	2	452.29	2	90.82	2		2		2	
1/4	2,251.41	1/4	1,889.92	1/4	1,528.42	1/4	1,166.93	1/4	806.24	1/4	444.76	1/4	83.29	1/4		1/4		1/4	
1/2	2,243.88	1/2	1,882.39	1/2	1,520.89	1/2	1,159.40	1/2	798.71	1/2	437.23	1/2	75.75	1/2		1/2		1/2	
3/4	2,236.35	3/4	1,874.86	3/4	1,513.36	3/4	1,151.87	3/4	791.18	3/4	429.70	3/4	68.22	3/4		3/4		3/4	
3	2,228.82	3	1,867.32	3	1,505.83	3	1,144.34	3	783.65	3	422.17	3	60.69	3		3		3	
1/4	2,221.29	1/4	1,859.79	1/4	1,498.30	1/4	1,136.81	1/4	776.12	1/4	414.64	1/4	54.10	1/4		1/4		1/4	
1/2	2,213.75	1/2	1,852.26	1/2	1,490.77	1/2	1,129.28	1/2	768.59	1/2	407.11	1/2	47.51	1/2		1/2		1/2	
3/4	2,206.22	3/4	1,844.73	3/4	1,483.24	3/4	1,121.75	3/4	761.06	3/4	399.58	3/4	40.92	3/4		3/4		3/4	
4	2,198.69	4	1,837.20	4	1,475.71	4	1,114.21	4	753.53	4	392.05	4	34.33	4		4		4	
1/4	2,191.16	1/4	1,829.67	1/4	1,468.18	1/4	1,106.71	1/4	746.00	1/4	384.52	1/4	29.63	1/4		1/4		1/4	
1/2	2,183.63	1/2	1,822.14	1/2	1,460.64	1/2	1,099.20	1/2	738.46	1/2	376.99	1/2	24.92	1/2		1/2		1/2	
3/4	2,176.10	3/4	1,814.61	3/4	1,453.11	3/4	1,091.70	3/4	730.93	3/4	369.46	3/4	20.21	3/4		3/4		3/4	
5	2,168.57	5	1,807.08	5	1,445.58	5	1,084.19	5	723.40	5	361.92	5	15.51	5		5		5	
1/4	2,161.04	1/4	1,799.54	1/4	1,438.05	1/4	1,076.68	1/4	715.87	1/4	354.39	1/4		1/4		1/4		1/4	
1/2	2,153.51	1/2	1,792.01	1/2	1,430.52	1/2	1,069.18	1/2	708.34	1/2	346.86	1/2		1/2		1/2		1/2	
3/4	2,145.98	3/4	1,784.48	3/4	1,422.99	3/4	1,061.67	3/4	700.81	3/4	339.33	3/4		3/4		3/4		3/4	
6	2,138.44	6	1,776.95	6	1,415.46	6	1,054.17	6	693.28	6	331.80	6		6		6		6	
1/4	2,130.91	1/4	1,769.42	1/4	1,407.93	1/4	1,046.66	1/4	685.75	1/4	324.27	1/4		1/4		1/4		1/4	
1/2	2,123.38	1/2	1,761.89	1/2	1,400.40	1/2	1,039.15	1/2	678.22	1/2	316.74	1/2		1/2		1/2		1/2	
3/4	2,115.85	3/4	1,754.36	3/4	1,392.87	3/4	1,031.65	3/4	670.69	3/4	309.21	3/4		3/4		3/4		3/4	
7	2,108.32	7	1,746.83	7	1,385.33	7	1,024.14	7	663.16	7	301.68	7		7		7		7	
1/4	2,100.79	1/4	1,739.30	1/4	1,377.80	1/4	1,016.64	1/4	655.63	1/4	294.15	1/4		1/4		1/4		1/4	
1/2	2,093.26	1/2	1,731.76	1/2	1,370.27	1/2	1,009.13	1/2	648.10	1/2	286.62	1/2		1/2		1/2		1/2	
3/4	2,085.73	3/4	1,724.23	3/4	1,362.74	3/4	1,001.62	3/4	640.56	3/4	279.09	3/4		3/4		3/4		3/4	
8	2,078.20	8	1,716.70	8	1,355.21	8	994.12	8	633.03	8	271.56	8		8		8		8	
1/4	2,070.66	1/4	1,709.17	1/4	1,347.68	1/4	986.61	1/4	625.50	1/4	264.02	1/4		1/4		1/4		1/4	
1/2	2,063.13	1/2	1,701.64	1/2	1,340.15	1/2	979.10	1/2	617.97	1/2	256.49	1/2		1/2		1/2		1/2	
3/4	2,055.60	3/4	1,694.11	3/4	1,332.62	3/4	971.60	3/4	610.44	3/4	248.96	3/4		3/4		3/4		3/4	
9	2,048.07	9	1,686.58	9	1,325.09	9	964.09	9	602.91	9	241.43	9		9		9		9	
1/4	2,040.54	1/4	1,679.05	1/4	1,317.55	1/4	956.59	1/4	595.38	1/4	233.90	1/4		1/4		1/4		1/4	
1/2	2,033.01	1/2	1,671.52	1/2	1,310.02	1/2	949.08	1/2	587.85	1/2	226.37	1/2		1/2		1/2		1/2	
3/4	2,025.48	3/4	1,663.98	3/4	1,302.49	3/4	941.57	3/4	580.32	3/4	218.84	3/4		3/4		3/4		3/4	
10	2,017.95	10	1,656.45	10	1,294.96	10	934.07	10	572.79	10	211.31	10		10		10		10	
1/4	2,010.42	1/4	1,648.92	1/4	1,287.43	1/4	926.56	1/4	565.26	1/4	203.78	1/4		1/4		1/4		1/4	
1/2	2,002.88	1/2	1,641.39	1/2	1,279.90	1/2	919.06	1/2	557.73	1/2	196.25	1/2		1/2		1/2		1/2	
3/4	1,995.35	3/4	1,633.86	3/4	1,272.37	3/4	911.55	3/4	550.19	3/4	188.72	3/4		3/4		3/4		3/4	
11	1,987.82	11	1,626.33	11	1,264.84	11	904.04	11	542.66	11	181.19	11		11		11		11	
1/4	1,980.29	1/4	1,618.80	1/4	1,257.31	1/4	896.54	1/4	535.13	1/4	173.65	1/4		1/4		1/4		1/4	
1/2	1,972.76	1/2	1,611.27	1/2	1,249.77	1/2	889.03	1/2	527.60	1/2	166.12	1/2		1/2		1/2		1/2	
3/4	1,965.23	3/4	1,603.74	3/4	1,242.24	3/4	881.53	3/4	520.07	3/4	158.59	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 28149"

## 3 STBD 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,475.35		4,219.13		3,950.07		3,668.55		3,373.87		3,018.18		2,657.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,470.09	1/4	4,213.67	1/4	3,944.32	1/4	3,662.55	1/4	3,367.04	1/4	3,010.67	1/4	2,650.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,464.84	1/2	4,208.21	1/2	3,938.57	1/2	3,656.55	1/2	3,360.21	1/2	3,003.16	1/2	2,642.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,459.59	3/4	4,202.75	3/4	3,932.82	3/4	3,650.55	3/4	3,353.38	3/4	2,995.64	3/4	2,635.08		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,454.34</b>	<b>1</b>	<b>4,197.29</b>	<b>1</b>	<b>3,927.07</b>	<b>1</b>	<b>3,644.55</b>	<b>1</b>	<b>3,346.55</b>	<b>1</b>	<b>2,988.13</b>	<b>1</b>	<b>2,627.57</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,449.07	1/4	4,191.80	1/4	3,921.29	1/4	3,638.53	1/4	3,339.45	1/4	2,980.62	1/4	2,620.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,443.80	1/2	4,186.32	1/2	3,915.52	1/2	3,632.50	1/2	3,332.34	1/2	2,973.11	1/2	2,612.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,438.53	3/4	4,180.83	3/4	3,909.75	3/4	3,626.47	3/4	3,325.23	3/4	2,965.60	3/4	2,605.03		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,433.26</b>	<b>2</b>	<b>4,175.35</b>	<b>2</b>	<b>3,903.98</b>	<b>2</b>	<b>3,620.45</b>	<b>2</b>	<b>3,318.12</b>	<b>2</b>	<b>2,958.09</b>	<b>2</b>	<b>2,597.52</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,427.96	1/4	4,169.84	1/4	3,898.19	1/4	3,614.40	1/4	3,310.74	1/4	2,950.58	1/4	2,590.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,422.67	1/2	4,164.34	1/2	3,892.40	1/2	3,608.36	1/2	3,303.35	1/2	2,943.07	1/2	2,582.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,417.38	3/4	4,158.84	3/4	3,886.61	3/4	3,602.32	3/4	3,295.97	3/4	2,935.55	3/4	2,574.98		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,412.08</b>	<b>3</b>	<b>4,153.33</b>	<b>3</b>	<b>3,880.82</b>	<b>3</b>	<b>3,596.28</b>	<b>3</b>	<b>3,288.58</b>	<b>3</b>	<b>2,928.04</b>	<b>3</b>	<b>2,567.47</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,406.80	1/4	4,147.77	1/4	3,875.01	1/4	3,590.22	1/4	3,281.07	1/4	2,920.53	1/4	2,559.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,401.53	1/2	4,142.21	1/2	3,869.20	1/2	3,584.15	1/2	3,273.56	1/2	2,913.02	1/2	2,552.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,396.25	3/4	4,136.65	3/4	3,863.39	3/4	3,578.09	3/4	3,266.05	3/4	2,905.51	3/4	2,544.93		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,390.98</b>	<b>4</b>	<b>4,131.09</b>	<b>4</b>	<b>3,857.57</b>	<b>4</b>	<b>3,572.03</b>	<b>4</b>	<b>3,258.54</b>	<b>4</b>	<b>2,898.00</b>	<b>4</b>	<b>2,537.42</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,385.68	1/4	4,125.51	1/4	3,851.74	1/4	3,565.94	1/4	3,251.02	1/4	2,890.49	1/4	2,529.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,380.39	1/2	4,119.92	1/2	3,845.91	1/2	3,559.86	1/2	3,243.51	1/2	2,882.98	1/2	2,522.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,375.09	3/4	4,114.34	3/4	3,840.07	3/4	3,553.77	3/4	3,236.00	3/4	2,875.46	3/4	2,514.88		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,369.79</b>	<b>5</b>	<b>4,108.75</b>	<b>5</b>	<b>3,834.24</b>	<b>5</b>	<b>3,547.68</b>	<b>5</b>	<b>3,228.49</b>	<b>5</b>	<b>2,867.95</b>	<b>5</b>	<b>2,507.37</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,364.48	1/4	4,103.15	1/4	3,828.38	1/4	3,541.58	1/4	3,220.98	1/4	2,860.44	1/4	2,499.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,359.16	1/2	4,097.55	1/2	3,822.53	1/2	3,535.47	1/2	3,213.47	1/2	2,852.93	1/2	2,492.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,353.84	3/4	4,091.94	3/4	3,816.67	3/4	3,529.37	3/4	3,205.96	3/4	2,845.42	3/4	2,484.83		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,348.52</b>	<b>6</b>	<b>4,086.34</b>	<b>6</b>	<b>3,810.81</b>	<b>6</b>	<b>3,523.26</b>	<b>6</b>	<b>3,198.45</b>	<b>6</b>	<b>2,837.91</b>	<b>6</b>	<b>2,477.32</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,343.18	1/4	4,080.71	1/4	3,804.93	1/4	3,517.14	1/4	3,190.94	1/4	2,830.40	1/4	2,469.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,603.64	1/2	4,337.84	1/2	4,075.08	1/2	3,799.06	1/2	3,511.01	1/2	3,183.42	1/2	2,822.89	1/2	2,462.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,599.04	3/4	4,332.50	3/4	4,069.45	3/4	3,793.18	3/4	3,504.89	3/4	3,175.91	3/4	2,815.38	3/4	2,454.79
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,594.43</b>	<b>7</b>	<b>4,327.17</b>	<b>7</b>	<b>4,063.82</b>	<b>7</b>	<b>3,787.31</b>	<b>7</b>	<b>3,498.77</b>	<b>7</b>	<b>3,168.40</b>	<b>7</b>	<b>2,807.86</b>	<b>7</b>	<b>2,447.28</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.30	1/4	4,321.80	1/4	4,058.18	1/4	3,781.41	1/4	3,492.63	1/4	3,160.89	1/4	2,800.35	1/4	2,439.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,582.16	1/2	4,316.44	1/2	4,052.53	1/2	3,775.52	1/2	3,486.50	1/2	3,153.38	1/2	2,792.84	1/2	2,432.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.03	3/4	4,311.08	3/4	4,046.88	3/4	3,769.62	3/4	3,480.37	3/4	3,145.87	3/4	2,785.33	3/4	2,424.76
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,569.90</b>	<b>8</b>	<b>4,305.71</b>	<b>8</b>	<b>4,041.24</b>	<b>8</b>	<b>3,763.73</b>	<b>8</b>	<b>3,474.23</b>	<b>8</b>	<b>3,138.36</b>	<b>8</b>	<b>2,777.81</b>	<b>8</b>	<b>2,417.25</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.76	1/4	4,300.33	1/4	4,035.57	1/4	3,757.81	1/4	3,468.10	1/4	3,130.85	1/4	2,770.30	1/4	2,409.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,557.63	1/2	4,294.95	1/2	4,029.91	1/2	3,751.89	1/2	3,461.97	1/2	3,123.33	1/2	2,762.79	1/2	2,402.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,551.49	3/4	4,289.57	3/4	4,024.24	3/4	3,745.97	3/4	3,455.83	3/4	3,115.82	3/4	2,755.28	3/4	2,394.72
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,545.36</b>	<b>9</b>	<b>4,284.19</b>	<b>9</b>	<b>4,018.58</b>	<b>9</b>	<b>3,740.05</b>	<b>9</b>	<b>3,449.70</b>	<b>9</b>	<b>3,108.31</b>	<b>9</b>	<b>2,747.76</b>	<b>9</b>	<b>2,387.21</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,539.22	1/4	4,278.80	1/4	4,012.89	1/4	3,734.11	1/4	3,443.57	1/4	3,100.80	1/4	2,740.25	1/4	2,379.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.09	1/2	4,273.40	1/2	4,007.20	1/2	3,728.18	1/2	3,437.43	1/2	3,093.29	1/2	2,732.74	1/2	2,372.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,526.95	3/4	4,268.00	3/4	4,001.51	3/4	3,722.24	3/4	3,431.30	3/4	3,085.78	3/4	2,725.23	3/4	2,364.69
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,520.82</b>	<b>10</b>	<b>4,262.60</b>	<b>10</b>	<b>3,995.81</b>	<b>10</b>	<b>3,716.30</b>	<b>10</b>	<b>3,425.17</b>	<b>10</b>	<b>3,078.27</b>	<b>10</b>	<b>2,717.72</b>	<b>10</b>	<b>2,357.18</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,514.68	1/4	4,257.17	1/4	3,990.11	1/4	3,710.34	1/4	3,418.89	1/4	3,070.76	1/4	2,710.20	1/4	2,349.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,508.55	1/2	4,251.75	1/2	3,984.40	1/2	3,704.39	1/2	3,412.62	1/2	3,063.24	1/2	2,702.69	1/2	2,342.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,502.41	3/4	4,246.33	3/4	3,978.69	3/4	3,698.43	3/4	3,406.35	3/4	3,055.73	3/4	2,695.18	3/4	2,334.65
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,496.28</b>	<b>11</b>	<b>4,240.90</b>	<b>11</b>	<b>3,972.98</b>	<b>11</b>	<b>3,692.47</b>	<b>11</b>	<b>3,400.08</b>	<b>11</b>	<b>3,048.22</b>	<b>11</b>	<b>2,687.67</b>	<b>11</b>	<b>2,327.14</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,491.05	1/4	4,235.46	1/4	3,967.25	1/4	3,686.49	1/4	3,393.52	1/4	3,040.71	1/4	2,680.15	1/4	2,319.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,485.81	1/2	4,230.02	1/2	3,961.53	1/2	3,680.51	1/2	3,386.97	1/2	3,033.20	1/2	2,672.64	1/2	2,312.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,480.58	3/4	4,224.58	3/4	3,955.80	3/4	3,674.53	3/4	3,380.42	3/4	3,025.69	3/4	2,665.13	3/4	2,304.62

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 41'-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 28149"

## 3 STBD 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
	2,297.11		1,937.78		1,578.98		1,218.35		864.48		511.47		150.96								
1/4	2,289.59	1/4	1,930.34	1/4	1,571.47	1/4	1,210.97	1/4	857.10	1/4	504.03	1/4	143.44	1/4		1/4		1/4		1/4	
1/2	2,282.08	1/2	1,922.89	1/2	1,563.96	1/2	1,203.59	1/2	849.73	1/2	496.58	1/2	135.91	1/2		1/2		1/2		1/2	
3/4	2,274.57	3/4	1,915.44	3/4	1,556.44	3/4	1,196.22	3/4	842.35	3/4	489.14	3/4	128.39	3/4		3/4		3/4		3/4	
1	2,267.05	1	1,907.99	1	1,548.93	1	1,188.84	1	834.97	1	481.69	1	120.86	1		1		1		1	
1/4	2,259.54	1/4	1,900.54	1/4	1,541.42	1/4	1,181.46	1/4	827.60	1/4	474.18	1/4	113.33	1/4		1/4		1/4		1/4	
1/2	2,252.03	1/2	1,893.10	1/2	1,533.90	1/2	1,174.08	1/2	820.23	1/2	466.66	1/2	105.81	1/2		1/2		1/2		1/2	
3/4	2,244.51	3/4	1,885.65	3/4	1,526.39	3/4	1,166.71	3/4	812.86	3/4	459.15	3/4	98.28	3/4		3/4		3/4		3/4	
2	2,237.00	2	1,878.20	2	1,518.88	2	1,159.33	2	805.48	2	451.63	2	90.76	2		2		2		2	
1/4	2,229.49	1/4	1,870.75	1/4	1,511.36	1/4	1,151.95	1/4	798.13	1/4	444.12	1/4	83.23	1/4		1/4		1/4		1/4	
1/2	2,221.97	1/2	1,863.31	1/2	1,503.85	1/2	1,144.58	1/2	790.77	1/2	436.60	1/2	75.70	1/2		1/2		1/2		1/2	
3/4	2,214.46	3/4	1,855.86	3/4	1,496.34	3/4	1,137.20	3/4	783.41	3/4	429.09	3/4	68.18	3/4		3/4		3/4		3/4	
3	2,206.95	3	1,848.41	3	1,488.82	3	1,129.82	3	776.06	3	421.57	3	60.65	3		3		3		3	
1/4	2,199.43	1/4	1,840.96	1/4	1,481.31	1/4	1,122.45	1/4	768.71	1/4	414.06	1/4	54.07	1/4		1/4		1/4		1/4	
1/2	2,191.92	1/2	1,833.52	1/2	1,473.80	1/2	1,115.07	1/2	761.37	1/2	406.55	1/2	47.48	1/2		1/2		1/2		1/2	
3/4	2,184.41	3/4	1,826.07	3/4	1,466.28	3/4	1,107.69	3/4	754.02	3/4	399.03	3/4	40.89	3/4		3/4		3/4		3/4	
4	2,176.89	4	1,818.62	4	1,458.77	4	1,100.32	4	746.68	4	391.52	4	34.31	4		4		4		4	
1/4	2,169.38	1/4	1,811.17	1/4	1,451.26	1/4	1,092.95	1/4	739.34	1/4	384.00	1/4	29.60	1/4		1/4		1/4		1/4	
1/2	2,161.87	1/2	1,803.73	1/2	1,443.74	1/2	1,085.58	1/2	731.99	1/2	376.49	1/2	24.90	1/2		1/2		1/2		1/2	
3/4	2,154.35	3/4	1,796.28	3/4	1,436.23	3/4	1,078.21	3/4	724.65	3/4	368.97	3/4	20.20	3/4		3/4		3/4		3/4	
5	2,146.84	5	1,788.83	5	1,428.72	5	1,070.84	5	717.31	5	361.46	5	15.49	5		5		5		5	
1/4	2,139.33	1/4	1,781.38	1/4	1,421.20	1/4	1,063.47	1/4	709.96	1/4	353.95	1/4		1/4		1/4		1/4		1/4	
1/2	2,131.81	1/2	1,773.94	1/2	1,413.69	1/2	1,056.10	1/2	702.62	1/2	346.43	1/2		1/2		1/2		1/2		1/2	
3/4	2,124.30	3/4	1,766.49	3/4	1,406.18	3/4	1,048.73	3/4	695.27	3/4	338.92	3/4		3/4		3/4		3/4		3/4	
6	2,116.79	6	1,759.04	6	1,398.66	6	1,041.36	6	687.93	6	331.40	6		6		6		6		6	
1/4	2,109.27	1/4	1,751.59	1/4	1,391.15	1/4	1,033.99	1/4	680.58	1/4	323.89	1/4		1/4		1/4		1/4		1/4	
1/2	2,101.76	1/2	1,744.15	1/2	1,383.64	1/2	1,026.62	1/2	673.24	1/2	316.37	1/2		1/2		1/2		1/2		1/2	
3/4	2,094.25	3/4	1,736.70	3/4	1,376.12	3/4	1,019.25	3/4	665.89	3/4	308.86	3/4		3/4		3/4		3/4		3/4	
7	2,086.73	7	1,729.25	7	1,368.61	7	1,011.88	7	658.55	7	301.34	7		7		7		7		7	
1/4	2,079.29	1/4	1,721.74	1/4	1,361.10	1/4	1,004.51	1/4	651.20	1/4	293.83	1/4		1/4		1/4		1/4		1/4	
1/2	2,071.84	1/2	1,714.22	1/2	1,353.58	1/2	997.14	1/2	643.85	1/2	286.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,064.39	3/4	1,706.71	3/4	1,346.07	3/4	989.77	3/4	636.51	3/4	278.80	3/4		3/4		3/4		3/4		3/4	
8	2,056.94	8	1,699.20	8	1,338.56	8	982.40	8	629.16	8	271.29	8		8		8		8		8	
1/4	2,049.50	1/4	1,691.68	1/4	1,331.04	1/4	975.03	1/4	621.82	1/4	263.77	1/4		1/4		1/4		1/4		1/4	
1/2	2,042.05	1/2	1,684.17	1/2	1,323.53	1/2	967.66	1/2	614.47	1/2	256.26	1/2		1/2		1/2		1/2		1/2	
3/4	2,034.60	3/4	1,676.66	3/4	1,316.02	3/4	960.29	3/4	607.13	3/4	248.74	3/4		3/4		3/4		3/4		3/4	
9	2,027.15	9	1,669.14	9	1,308.51	9	952.92	9	599.78	9	241.23	9		9		9		9		9	
1/4	2,019.71	1/4	1,661.63	1/4	1,300.99	1/4	945.55	1/4	592.44	1/4	233.71	1/4		1/4		1/4		1/4		1/4	
1/2	2,012.26	1/2	1,654.12	1/2	1,293.48	1/2	938.18	1/2	585.09	1/2	226.20	1/2		1/2		1/2		1/2		1/2	
3/4	2,004.81	3/4	1,646.60	3/4	1,285.97	3/4	930.81	3/4	577.75	3/4	218.69	3/4		3/4		3/4		3/4		3/4	
10	1,997.36	10	1,639.09	10	1,278.45	10	923.44	10	570.40	10	211.17	10		10		10		10		10	
1/4	1,989.92	1/4	1,631.58	1/4	1,270.94	1/4	916.07	1/4	563.04	1/4	203.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,982.47	1/2	1,624.06	1/2	1,263.43	1/2	908.70	1/2	555.69	1/2	196.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,975.02	3/4	1,616.55	3/4	1,255.91	3/4	901.33	3/4	548.33	3/4	188.59	3/4		3/4		3/4		3/4		3/4	
11	1,967.57	11	1,609.04	11	1,248.40	11	893.96	11	540.97	11	181.07	11		11		11		11		11	
1/4	1,960.13	1/4	1,601.52	1/4	1,240.89	1/4	886.59	1/4	533.60	1/4	173.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,952.68	1/2	1,594.01	1/2	1,233.37	1/2	879.22	1/2	526.22	1/2	166.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,945.23	3/4	1,586.50	3/4	1,225.86	3/4	871.85	3/4	518.85	3/4	158.49	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 08/14/2012 CL - SW  
CALCULATED: 08/14/2012 CL  
PRINTED: 08/14/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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