



# BARGE "KIRBY 29102"

## 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	01-3/4	- 01-3/4
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	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	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	01-1/8	- 01-1/8	01-1/2	- 01-1/2	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"

February 7, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29102"

## 1 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
							4,954.24		4,621.97		4,283.08		3,927.70		3,556.37		3,180.21		2,802.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,948.86	1/4	4,615.08	1/4	4,275.84	1/4	3,920.12	1/4	3,548.54	1/4	3,172.34	1/4	2,794.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,943.49	1/2	4,608.19	1/2	4,268.61	1/2	3,912.54	1/2	3,540.70	1/2	3,164.48	1/2	2,786.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,936.82	3/4	4,601.28	3/4	4,261.35	3/4	3,904.94	3/4	3,532.87	3/4	3,156.61	3/4	2,778.91
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,930.14</b>	<b>1</b>	<b>4,594.36</b>	<b>1</b>	<b>4,254.09</b>	<b>1</b>	<b>3,897.33</b>	<b>1</b>	<b>3,525.04</b>	<b>1</b>	<b>3,148.74</b>	<b>1</b>	<b>2,771.05</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,923.47	1/4	4,587.45	1/4	4,246.83	1/4	3,889.72	1/4	3,517.20	1/4	3,140.87	1/4	2,763.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,916.80	1/2	4,580.53	1/2	4,239.57	1/2	3,882.11	1/2	3,509.37	1/2	3,133.00	1/2	2,755.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,909.20	3/4	4,573.59	3/4	4,232.28	3/4	3,874.48	3/4	3,501.54	3/4	3,125.13	3/4	2,747.44
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,901.59</b>	<b>2</b>	<b>4,566.64</b>	<b>2</b>	<b>4,224.99</b>	<b>2</b>	<b>3,866.85</b>	<b>2</b>	<b>3,493.70</b>	<b>2</b>	<b>3,117.26</b>	<b>2</b>	<b>2,739.57</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.99	1/4	4,559.70	1/4	4,217.71	1/4	3,859.22	1/4	3,485.87	1/4	3,109.40	1/4	2,731.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,886.38	1/2	4,552.75	1/2	4,210.42	1/2	3,851.59	1/2	3,478.03	1/2	3,101.53	1/2	2,723.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,878.55	3/4	4,545.78	3/4	4,203.10	3/4	3,843.93	3/4	3,470.20	3/4	3,093.66	3/4	2,715.97
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,870.72</b>	<b>3</b>	<b>4,538.81</b>	<b>3</b>	<b>4,195.79</b>	<b>3</b>	<b>3,836.27</b>	<b>3</b>	<b>3,462.37</b>	<b>3</b>	<b>3,085.79</b>	<b>3</b>	<b>2,708.10</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,862.88	1/4	4,531.84	1/4	4,188.47	1/4	3,828.61	1/4	3,454.53	1/4	3,077.92	1/4	2,700.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,855.05	1/2	4,524.86	1/2	4,181.15	1/2	3,820.95	1/2	3,446.70	1/2	3,070.05	1/2	2,692.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,847.65	3/4	4,517.86	3/4	4,173.81	3/4	3,813.26	3/4	3,438.87	3/4	3,062.18	3/4	2,684.49
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,840.25</b>	<b>4</b>	<b>4,510.86</b>	<b>4</b>	<b>4,166.46</b>	<b>4</b>	<b>3,805.57</b>	<b>4</b>	<b>3,431.03</b>	<b>4</b>	<b>3,054.31</b>	<b>4</b>	<b>2,676.62</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,832.85	1/4	4,503.86	1/4	4,159.12	1/4	3,797.88	1/4	3,423.20	1/4	3,046.45	1/4	2,668.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,825.45	1/2	4,496.85	1/2	4,151.77	1/2	3,790.19	1/2	3,415.36	1/2	3,038.58	1/2	2,660.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.76	3/4	4,489.82	3/4	4,144.40	3/4	3,782.47	3/4	3,407.53	3/4	3,030.71	3/4	2,653.02
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,812.07</b>	<b>5</b>	<b>4,482.79</b>	<b>5</b>	<b>4,137.02</b>	<b>5</b>	<b>3,774.76</b>	<b>5</b>	<b>3,399.70</b>	<b>5</b>	<b>3,022.84</b>	<b>5</b>	<b>2,645.15</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.38	1/4	4,475.76	1/4	4,129.65	1/4	3,767.04	1/4	3,391.86	1/4	3,014.97	1/4	2,637.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.69	1/2	4,468.73	1/2	4,122.27	1/2	3,759.32	1/2	3,384.03	1/2	3,007.10	1/2	2,629.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.98	3/4	4,461.67	3/4	4,114.87	3/4	3,751.58	3/4	3,376.19	3/4	2,999.23	3/4	2,621.54
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,785.26</b>	<b>6</b>	<b>4,454.61</b>	<b>6</b>	<b>4,107.47</b>	<b>6</b>	<b>3,743.83</b>	<b>6</b>	<b>3,368.36</b>	<b>6</b>	<b>2,991.37</b>	<b>6</b>	<b>2,613.67</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.54	1/4	4,447.55	1/4	4,100.06	1/4	3,736.08	1/4	3,360.53	1/4	2,983.50	1/4	2,605.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,771.83	1/2	4,440.49	1/2	4,092.66	1/2	3,728.33	1/2	3,352.69	1/2	2,975.63	1/2	2,597.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,765.08	3/4	4,433.40	3/4	4,085.23	3/4	3,720.56	3/4	3,344.86	3/4	2,967.76	3/4	2,590.07
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,758.33</b>	<b>7</b>	<b>4,426.31</b>	<b>7</b>	<b>4,077.80</b>	<b>7</b>	<b>3,712.78</b>	<b>7</b>	<b>3,337.03</b>	<b>7</b>	<b>2,959.89</b>	<b>7</b>	<b>2,582.20</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,751.59	1/4	4,419.23	1/4	4,070.36	1/4	3,705.01	1/4	3,329.19	1/4	2,952.02	1/4	2,574.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,744.84	1/2	4,412.14	1/2	4,062.93	1/2	3,697.23	1/2	3,321.36	1/2	2,944.15	1/2	2,566.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,738.07	3/4	4,405.02	3/4	4,055.47	3/4	3,689.43	3/4	3,313.52	3/4	2,936.29	3/4	2,558.59
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,731.29</b>	<b>8</b>	<b>4,397.90</b>	<b>8</b>	<b>4,048.01</b>	<b>8</b>	<b>3,681.62</b>	<b>8</b>	<b>3,305.69</b>	<b>8</b>	<b>2,928.42</b>	<b>8</b>	<b>2,550.72</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,724.52	1/4	4,390.78	1/4	4,040.55	1/4	3,673.82	1/4	3,297.86	1/4	2,920.55	1/4	2,542.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,717.74	1/2	4,383.66	1/2	4,033.09	1/2	3,666.01	1/2	3,290.02	1/2	2,912.68	1/2	2,534.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,710.94	3/4	4,376.52	3/4	4,025.60	3/4	3,658.19	3/4	3,282.19	3/4	2,904.81	3/4	2,527.12
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,704.13</b>	<b>9</b>	<b>4,369.37</b>	<b>9</b>	<b>4,018.11</b>	<b>9</b>	<b>3,650.36</b>	<b>9</b>	<b>3,274.36</b>	<b>9</b>	<b>2,896.94</b>	<b>9</b>	<b>2,519.25</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,697.33	1/4	4,362.22	1/4	4,010.62	1/4	3,642.54	1/4	3,266.52	1/4	2,889.07	1/4	2,511.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,690.52	1/2	4,355.07	1/2	4,003.13	1/2	3,634.71	1/2	3,258.69	1/2	2,881.21	1/2	2,503.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,683.69	3/4	4,347.90	3/4	3,995.61	3/4	3,626.88	3/4	3,250.85	3/4	2,873.34	3/4	2,495.64
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,676.86</b>	<b>10</b>	<b>4,340.72</b>	<b>10</b>	<b>3,988.09</b>	<b>10</b>	<b>3,619.04</b>	<b>10</b>	<b>3,243.02</b>	<b>10</b>	<b>2,865.47</b>	<b>10</b>	<b>2,487.78</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,670.03	1/4	4,333.54	1/4	3,980.57	1/4	3,611.21	1/4	3,235.19	1/4	2,857.60	1/4	2,479.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.19	1/2	4,326.37	1/2	3,973.05	1/2	3,603.37	1/2	3,227.35	1/2	2,849.73	1/2	2,472.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,656.33	3/4	4,319.16	3/4	3,965.50	3/4	3,595.54	3/4	3,219.50	3/4	2,841.86	3/4	2,464.17
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,649.47</b>	<b>11</b>	<b>4,311.96</b>	<b>11</b>	<b>3,957.95</b>	<b>11</b>	<b>3,587.71</b>	<b>11</b>	<b>3,211.65</b>	<b>11</b>	<b>2,833.99</b>	<b>11</b>	<b>2,456.30</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.60	1/4	4,304.75	1/4	3,950.40	1/4	3,579.87	1/4	3,203.80	1/4	2,826.13	1/4	2,448.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,635.74	1/2	4,297.55	1/2	3,942.85	1/2	3,572.04	1/2	3,195.95	1/2	2,818.26	1/2	2,440.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,628.85	3/4	4,290.31	3/4	3,935.28	3/4	3,564.21	3/4	3,188.08	3/4	2,810.39	3/4	2,432.70

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 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

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# BARGE "KIRBY 29102"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,424.83	0	2,047.13	0	1,669.44	0	1,293.09	0	916.21	0	538.55	0	189.29	0		0		0	
1/4	2,416.96	1/4	2,039.27	1/4	1,661.57	1/4	1,285.27	1/4	908.34	1/4	530.69	1/4	182.67	1/4	1/4		1/4		1/4
1/2	2,409.09	1/2	2,031.40	1/2	1,653.70	1/2	1,277.45	1/2	900.47	1/2	522.83	1/2	176.04	1/2	1/2		1/2		1/2
3/4	2,401.22	3/4	2,023.53	3/4	1,645.84	3/4	1,269.63	3/4	892.60	3/4	515.02	3/4	169.53	3/4	3/4		3/4		3/4
1	2,393.35	1	2,015.66	1	1,637.97	1	1,261.81	1	884.74	1	507.21	1	163.02	1	1		1		1
1/4	2,385.48	1/4	2,007.79	1/4	1,630.10	1/4	1,253.99	1/4	876.87	1/4	499.40	1/4	156.50	1/4	1/4		1/4		1/4
1/2	2,377.62	1/2	1,999.92	1/2	1,622.23	1/2	1,246.17	1/2	869.00	1/2	491.59	1/2	149.99	1/2	1/2		1/2		1/2
3/4	2,369.75	3/4	1,992.05	3/4	1,614.36	3/4	1,238.35	3/4	861.13	3/4	483.87	3/4	143.59	3/4	3/4		3/4		3/4
2	2,361.88	2	1,984.19	2	1,606.49	2	1,230.53	2	853.26	2	476.15	2	137.19	2	2		2		2
1/4	2,354.01	1/4	1,976.32	1/4	1,598.62	1/4	1,222.71	1/4	845.39	1/4	468.43	1/4	130.80	1/4	1/4		1/4		1/4
1/2	2,346.14	1/2	1,968.45	1/2	1,590.76	1/2	1,214.89	1/2	837.53	1/2	460.72	1/2	124.40	1/2	1/2		1/2		1/2
3/4	2,338.27	3/4	1,960.58	3/4	1,582.89	3/4	1,207.07	3/4	829.66	3/4	453.11	3/4	118.12	3/4	3/4		3/4		3/4
3	2,330.40	3	1,952.71	3	1,575.02	3	1,199.25	3	821.79	3	445.50	3	111.85	3	3		3		3
1/4	2,322.54	1/4	1,944.84	1/4	1,567.15	1/4	1,191.44	1/4	813.92	1/4	437.89	1/4	105.57	1/4	1/4		1/4		1/4
1/2	2,314.67	1/2	1,936.97	1/2	1,559.28	1/2	1,183.62	1/2	806.05	1/2	430.28	1/2	99.29	1/2	1/2		1/2		1/2
3/4	2,306.80	3/4	1,929.11	3/4	1,551.42	3/4	1,175.78	3/4	798.18	3/4	422.78	3/4	93.15	3/4	3/4		3/4		3/4
4	2,298.93	4	1,921.24	4	1,543.57	4	1,167.94	4	790.31	4	415.28	4	87.00	4	4		4		4
1/4	2,291.06	1/4	1,913.37	1/4	1,535.71	1/4	1,160.10	1/4	782.45	1/4	407.78	1/4	80.85	1/4	1/4		1/4		1/4
1/2	2,283.19	1/2	1,905.50	1/2	1,527.85	1/2	1,152.26	1/2	774.58	1/2	400.28	1/2	74.70	1/2	1/2		1/2		1/2
3/4	2,275.32	3/4	1,897.63	3/4	1,520.01	3/4	1,144.39	3/4	766.71	3/4	392.89	3/4	68.70	3/4	3/4		3/4		3/4
5	2,267.45	5	1,889.76	5	1,512.17	5	1,136.52	5	758.84	5	385.50	5	62.69	5	5		5		5
1/4	2,259.59	1/4	1,881.89	1/4	1,504.33	1/4	1,128.66	1/4	750.97	1/4	378.11	1/4	56.68	1/4	1/4		1/4		1/4
1/2	2,251.72	1/2	1,874.02	1/2	1,496.49	1/2	1,120.79	1/2	743.10	1/2	370.72	1/2	50.68	1/2	1/2		1/2		1/2
3/4	2,243.85	3/4	1,866.16	3/4	1,488.66	3/4	1,112.92	3/4	735.24	3/4	363.44	3/4	45.26	3/4	3/4		3/4		3/4
6	2,235.98	6	1,858.29	6	1,480.82	6	1,105.05	6	727.37	6	356.16	6	39.85	6	6		6		6
1/4	2,228.11	1/4	1,850.42	1/4	1,472.99	1/4	1,097.18	1/4	719.50	1/4	348.88	1/4	34.44	1/4	1/4		1/4		1/4
1/2	2,220.24	1/2	1,842.55	1/2	1,465.16	1/2	1,089.31	1/2	711.63	1/2	341.60	1/2	29.02	1/2	1/2		1/2		1/2
3/4	2,212.37	3/4	1,834.68	3/4	1,457.33	3/4	1,081.45	3/4	703.76	3/4	334.43	3/4	25.06	3/4	3/4		3/4		3/4
7	2,204.51	7	1,826.81	7	1,449.50	7	1,073.58	7	695.89	7	327.26	7	21.10	7	7		7		7
1/4	2,196.64	1/4	1,818.94	1/4	1,441.68	1/4	1,065.71	1/4	688.03	1/4	320.08	1/4	17.14	1/4	1/4		1/4		1/4
1/2	2,188.77	1/2	1,811.08	1/2	1,433.85	1/2	1,057.84	1/2	680.16	1/2	312.91	1/2	13.18	1/2	1/2		1/2		1/2
3/4	2,180.90	3/4	1,803.21	3/4	1,426.03	3/4	1,049.97	3/4	672.29	3/4	305.85	3/4		3/4	3/4		3/4		3/4
8	2,173.03	8	1,795.34	8	1,418.20	8	1,042.10	8	664.42	8	298.79	8		8	8		8		8
1/4	2,165.16	1/4	1,787.47	1/4	1,410.38	1/4	1,034.24	1/4	656.55	1/4	291.73	1/4		1/4	1/4		1/4		1/4
1/2	2,157.29	1/2	1,779.60	1/2	1,402.56	1/2	1,026.37	1/2	648.68	1/2	284.66	1/2		1/2	1/2		1/2		1/2
3/4	2,149.43	3/4	1,771.73	3/4	1,394.74	3/4	1,018.50	3/4	640.82	3/4	277.71	3/4		3/4	3/4		3/4		3/4
9	2,141.56	9	1,763.86	9	1,386.92	9	1,010.63	9	632.95	9	270.76	9		9	9		9		9
1/4	2,133.69	1/4	1,756.00	1/4	1,379.10	1/4	1,002.76	1/4	625.08	1/4	263.81	1/4		1/4	1/4		1/4		1/4
1/2	2,125.82	1/2	1,748.13	1/2	1,371.28	1/2	994.89	1/2	617.21	1/2	256.85	1/2		1/2	1/2		1/2		1/2
3/4	2,117.95	3/4	1,740.26	3/4	1,363.46	3/4	987.02	3/4	609.34	3/4	250.01	3/4		3/4	3/4		3/4		3/4
10	2,110.08	10	1,732.39	10	1,355.64	10	979.16	10	601.47	10	243.16	10		10	10		10		10
1/4	2,102.21	1/4	1,724.52	1/4	1,347.82	1/4	971.29	1/4	593.60	1/4	236.32	1/4		1/4	1/4		1/4		1/4
1/2	2,094.35	1/2	1,716.65	1/2	1,340.00	1/2	963.42	1/2	585.74	1/2	229.48	1/2		1/2	1/2		1/2		1/2
3/4	2,086.48	3/4	1,708.78	3/4	1,332.18	3/4	955.55	3/4	577.87	3/4	222.74	3/4		3/4	3/4		3/4		3/4
11	2,078.61	11	1,700.92	11	1,324.36	11	947.68	11	570.00	11	216.01	11		11	11		11		11
1/4	2,070.74	1/4	1,693.05	1/4	1,316.54	1/4	939.81	1/4	562.13	1/4	209.27	1/4		1/4	1/4		1/4		1/4
1/2	2,062.87	1/2	1,685.18	1/2	1,308.72	1/2	931.95	1/2	554.26	1/2	202.54	1/2		1/2	1/2		1/2		1/2
3/4	2,055.00	3/4	1,677.31	3/4	1,300.91	3/4	924.08	3/4	546.40	3/4	195.92	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "KIRBY 29102"

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	IN	0
									4,630.63		4,292.09		3,937.05		3,565.98		3,189.85		2,812.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,956.01	1/4	4,623.74	1/4	4,284.85	1/4	3,929.47	1/4	3,558.15	1/4	3,181.98	1/4	2,804.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,950.64	1/2	4,616.86	1/2	4,277.62	1/2	3,921.90	1/2	3,550.31	1/2	3,174.12	1/2	2,796.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,945.26	3/4	4,609.97	3/4	4,270.38	3/4	3,914.32	3/4	3,542.48	3/4	3,166.25	3/4	2,788.55
1	1	1	1	1	1	1	1	1	4,938.59	1	4,603.05	1	4,263.12	1	3,906.71	1	3,534.65	1	3,158.38	1	2,780.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,931.92	1/4	4,596.14	1/4	4,255.86	1/4	3,899.10	1/4	3,526.81	1/4	3,150.51	1/4	2,772.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,925.25	1/2	4,589.22	1/2	4,248.60	1/2	3,891.50	1/2	3,518.98	1/2	3,142.64	1/2	2,764.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,918.58	3/4	4,582.31	3/4	4,241.34	3/4	3,883.89	3/4	3,511.14	3/4	3,134.77	3/4	2,757.08
2	2	2	2	2	2	2	2	2	4,910.97	2	4,575.36	2	4,234.06	2	3,876.26	2	3,503.31	2	3,126.90	2	2,749.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,903.37	1/4	4,568.42	1/4	4,226.77	1/4	3,868.63	1/4	3,495.48	1/4	3,119.03	1/4	2,741.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,895.76	1/2	4,561.48	1/2	4,219.48	1/2	3,860.99	1/2	3,487.64	1/2	3,111.17	1/2	2,733.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,888.16	3/4	4,554.53	3/4	4,212.20	3/4	3,853.36	3/4	3,479.81	3/4	3,103.30	3/4	2,725.60
3	3	3	3	3	3	3	3	3	4,880.33	3	4,547.56	3	4,204.88	3	3,845.70	3	3,471.98	3	3,095.43	3	2,717.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,872.49	1/4	4,540.58	1/4	4,197.56	1/4	3,838.04	1/4	3,464.14	1/4	3,087.56	1/4	2,709.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,864.66	1/2	4,533.61	1/2	4,190.24	1/2	3,830.38	1/2	3,456.31	1/2	3,079.69	1/2	2,702.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,856.82	3/4	4,526.64	3/4	4,182.93	3/4	3,822.72	3/4	3,448.47	3/4	3,071.82	3/4	2,694.13
4	4	4	4	4	4	4	4	4	4,849.42	4	4,519.64	4	4,175.58	4	3,815.04	4	3,440.64	4	3,063.95	4	2,686.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,842.02	1/4	4,512.63	1/4	4,168.24	1/4	3,807.35	1/4	3,432.81	1/4	3,056.09	1/4	2,678.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,834.62	1/2	4,505.63	1/2	4,160.89	1/2	3,799.66	1/2	3,424.97	1/2	3,048.22	1/2	2,670.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,827.22	3/4	4,498.63	3/4	4,153.55	3/4	3,791.97	3/4	3,417.14	3/4	3,040.35	3/4	2,662.66
5	5	5	5	5	5	5	5	5	4,820.53	5	4,491.60	5	4,146.17	5	3,784.25	5	3,409.31	5	3,032.48	5	2,654.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,813.85	1/4	4,484.57	1/4	4,138.80	1/4	3,776.53	1/4	3,401.47	1/4	3,024.61	1/4	2,646.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,807.16	1/2	4,477.54	1/2	4,131.42	1/2	3,768.82	1/2	3,393.64	1/2	3,016.74	1/2	2,639.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,800.47	3/4	4,470.51	3/4	4,124.05	3/4	3,761.10	3/4	3,385.80	3/4	3,008.87	3/4	2,631.18
6	6	6	6	6	6	6	6	6	4,793.75	6	4,463.45	6	4,116.65	6	3,753.35	6	3,377.97	6	3,001.01	6	2,623.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,787.04	1/4	4,456.39	1/4	4,109.24	1/4	3,745.60	1/4	3,370.14	1/4	2,993.14	1/4	2,615.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,780.32	1/2	4,449.33	1/2	4,101.84	1/2	3,737.86	1/2	3,362.30	1/2	2,985.27	1/2	2,607.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,773.60	3/4	4,442.27	3/4	4,094.44	3/4	3,730.11	3/4	3,354.47	3/4	2,977.40	3/4	2,599.71
7	7	7	7	7	7	7	7	7	4,766.86	7	4,435.18	7	4,087.00	7	3,722.33	7	3,346.64	7	2,969.53	7	2,591.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,760.11	1/4	4,428.09	1/4	4,079.57	1/4	3,714.56	1/4	3,338.80	1/4	2,961.66	1/4	2,583.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,753.36	1/2	4,421.00	1/2	4,072.14	1/2	3,706.78	1/2	3,330.97	1/2	2,953.79	1/2	2,576.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,746.62	3/4	4,413.91	3/4	4,064.71	3/4	3,699.01	3/4	3,323.13	3/4	2,945.93	3/4	2,568.23
8	8	8	8	8	8	8	8	8	4,739.84	8	4,406.79	8	4,057.25	8	3,691.20	8	3,315.30	8	2,938.06	8	2,560.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,733.07	1/4	4,399.67	1/4	4,049.79	1/4	3,683.40	1/4	3,307.47	1/4	2,930.19	1/4	2,552.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,726.29	1/2	4,392.56	1/2	4,042.32	1/2	3,675.59	1/2	3,299.63	1/2	2,922.32	1/2	2,544.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,719.52	3/4	4,385.44	3/4	4,034.86	3/4	3,667.79	3/4	3,291.80	3/4	2,914.45	3/4	2,536.76
9	9	9	9	9	9	9	9	9	4,712.71	9	4,378.29	9	4,027.37	9	3,659.96	9	3,283.96	9	2,906.58	9	2,528.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,705.91	1/4	4,371.14	1/4	4,019.88	1/4	3,652.14	1/4	3,276.13	1/4	2,898.71	1/4	2,521.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,699.10	1/2	4,364.00	1/2	4,012.39	1/2	3,644.31	1/2	3,268.30	1/2	2,890.85	1/2	2,513.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,692.30	3/4	4,356.85	3/4	4,004.90	3/4	3,636.49	3/4	3,260.46	3/4	2,882.98	3/4	2,505.28
10	10	10	10	10	10	10	10	10	4,685.47	10	4,349.67	10	3,997.38	10	3,628.65	10	3,252.63	10	2,875.11	10	2,497.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,678.63	1/4	4,342.50	1/4	3,989.86	1/4	3,620.82	1/4	3,244.80	1/4	2,867.24	1/4	2,489.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,671.80	1/2	4,335.32	1/2	3,982.34	1/2	3,612.98	1/2	3,236.96	1/2	2,859.37	1/2	2,481.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,664.97	3/4	4,328.14	3/4	3,974.82	3/4	3,605.15	3/4	3,229.13	3/4	2,851.50	3/4	2,473.81
11	11	11	11	11	11	11	11	11	4,658.11	11	4,320.94	11	3,967.28	11	3,597.32	11	3,221.28	11	2,843.63	11	2,465.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,651.24	1/4	4,313.73	1/4	3,959.73	1/4	3,589.48	1/4	3,213.42	1/4	2,835.77	1/4	2,458.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,644.38	1/2	4,306.53	1/2	3,952.18	1/2	3,581.65	1/2	3,205.57	1/2	2,827.90	1/2	2,450.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,637.52	3/4	4,299.32	3/4	3,944.63	3/4	3,573.82	3/4	3,197.72	3/4	2,820.03	3/4	2,442.34

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 51'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29102"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,434.47	0	2,056.77	0	1,679.08	0	1,301.39	0	923.97	0	546.40	0	195.92	0		0		0	
1/4	2,426.60	1/4	2,048.91	1/4	1,671.21	1/4	1,293.52	1/4	916.11	1/4	538.55	1/4	189.29	1/4	1/4		1/4		1/4
1/2	2,418.73	1/2	2,041.04	1/2	1,663.34	1/2	1,285.65	1/2	908.25	1/2	530.69	1/2	182.67	1/2	1/2		1/2		1/2
3/4	2,410.86	3/4	2,033.17	3/4	1,655.48	3/4	1,277.78	3/4	900.40	3/4	522.83	3/4	176.04	3/4	3/4		3/4		3/4
1	2,402.99	1	2,025.30	1	1,647.61	1	1,269.91	1	892.54	1	515.02	1	169.53	1	1		1		1
1/4	2,395.12	1/4	2,017.43	1/4	1,639.74	1/4	1,262.05	1/4	884.68	1/4	507.21	1/4	163.02	1/4	1/4		1/4		1/4
1/2	2,387.26	1/2	2,009.56	1/2	1,631.87	1/2	1,254.18	1/2	876.83	1/2	499.40	1/2	156.50	1/2	1/2		1/2		1/2
3/4	2,379.39	3/4	2,001.69	3/4	1,624.00	3/4	1,246.31	3/4	868.97	3/4	491.59	3/4	149.99	3/4	3/4		3/4		3/4
2	2,371.52	2	1,993.83	2	1,616.13	2	1,238.44	2	861.11	2	483.87	2	143.59	2	2		2		2
1/4	2,363.65	1/4	1,985.96	1/4	1,608.26	1/4	1,230.57	1/4	853.25	1/4	476.15	1/4	137.19	1/4	1/4		1/4		1/4
1/2	2,355.78	1/2	1,978.09	1/2	1,600.40	1/2	1,222.70	1/2	845.39	1/2	468.43	1/2	130.80	1/2	1/2		1/2		1/2
3/4	2,347.91	3/4	1,970.22	3/4	1,592.53	3/4	1,214.83	3/4	837.53	3/4	460.72	3/4	124.40	3/4	3/4		3/4		3/4
3	2,340.04	3	1,962.35	3	1,584.66	3	1,206.97	3	829.66	3	453.11	3	118.12	3	3		3		3
1/4	2,332.17	1/4	1,954.48	1/4	1,576.79	1/4	1,199.10	1/4	821.79	1/4	445.50	1/4	111.85	1/4	1/4		1/4		1/4
1/2	2,324.31	1/2	1,946.61	1/2	1,568.92	1/2	1,191.23	1/2	813.92	1/2	437.89	1/2	105.57	1/2	1/2		1/2		1/2
3/4	2,316.44	3/4	1,938.74	3/4	1,561.05	3/4	1,183.36	3/4	806.05	3/4	430.28	3/4	99.29	3/4	3/4		3/4		3/4
4	2,308.57	4	1,930.88	4	1,553.18	4	1,175.49	4	798.18	4	422.78	4	93.15	4	4		4		4
1/4	2,300.70	1/4	1,923.01	1/4	1,545.31	1/4	1,167.62	1/4	790.31	1/4	415.28	1/4	87.00	1/4	1/4		1/4		1/4
1/2	2,292.83	1/2	1,915.14	1/2	1,537.45	1/2	1,159.75	1/2	782.45	1/2	407.78	1/2	80.85	1/2	1/2		1/2		1/2
3/4	2,284.96	3/4	1,907.27	3/4	1,529.58	3/4	1,151.88	3/4	774.58	3/4	400.28	3/4	74.70	3/4	3/4		3/4		3/4
5	2,277.09	5	1,899.40	5	1,521.71	5	1,144.02	5	766.71	5	392.89	5	68.70	5	5		5		5
1/4	2,269.23	1/4	1,891.53	1/4	1,513.84	1/4	1,136.15	1/4	758.84	1/4	385.50	1/4	62.69	1/4	1/4		1/4		1/4
1/2	2,261.36	1/2	1,883.66	1/2	1,505.97	1/2	1,128.28	1/2	750.97	1/2	378.11	1/2	56.68	1/2	1/2		1/2		1/2
3/4	2,253.49	3/4	1,875.80	3/4	1,498.10	3/4	1,120.41	3/4	743.10	3/4	370.72	3/4	50.68	3/4	3/4		3/4		3/4
6	2,245.62	6	1,867.93	6	1,490.23	6	1,112.55	6	735.24	6	363.44	6	45.26	6	6		6		6
1/4	2,237.75	1/4	1,860.06	1/4	1,482.37	1/4	1,104.68	1/4	727.37	1/4	356.16	1/4	39.85	1/4	1/4		1/4		1/4
1/2	2,229.88	1/2	1,852.19	1/2	1,474.50	1/2	1,096.82	1/2	719.50	1/2	348.88	1/2	34.44	1/2	1/2		1/2		1/2
3/4	2,222.01	3/4	1,844.32	3/4	1,466.63	3/4	1,088.96	3/4	711.63	3/4	341.60	3/4	29.02	3/4	3/4		3/4		3/4
7	2,214.15	7	1,836.45	7	1,458.76	7	1,081.10	7	703.76	7	334.43	7	25.06	7	7		7		7
1/4	2,206.28	1/4	1,828.58	1/4	1,450.89	1/4	1,073.24	1/4	695.89	1/4	327.26	1/4	21.10	1/4	1/4		1/4		1/4
1/2	2,198.41	1/2	1,820.72	1/2	1,443.02	1/2	1,065.39	1/2	688.03	1/2	320.08	1/2	17.14	1/2	1/2		1/2		1/2
3/4	2,190.54	3/4	1,812.85	3/4	1,435.15	3/4	1,057.53	3/4	680.16	3/4	312.91	3/4	13.18	3/4	3/4		3/4		3/4
8	2,182.67	8	1,804.98	8	1,427.29	8	1,049.67	8	672.29	8	305.85	8		8	8		8		8
1/4	2,174.80	1/4	1,797.11	1/4	1,419.42	1/4	1,041.82	1/4	664.42	1/4	298.79	1/4		1/4	1/4		1/4		1/4
1/2	2,166.93	1/2	1,789.24	1/2	1,411.55	1/2	1,033.96	1/2	656.55	1/2	291.73	1/2		1/2	1/2		1/2		1/2
3/4	2,159.07	3/4	1,781.37	3/4	1,403.68	3/4	1,026.10	3/4	648.68	3/4	284.66	3/4		3/4	3/4		3/4		3/4
9	2,151.20	9	1,773.50	9	1,395.81	9	1,018.25	9	640.82	9	277.71	9		9	9		9		9
1/4	2,143.33	1/4	1,765.64	1/4	1,387.94	1/4	1,010.39	1/4	632.95	1/4	270.76	1/4		1/4	1/4		1/4		1/4
1/2	2,135.46	1/2	1,757.77	1/2	1,380.07	1/2	1,002.53	1/2	625.08	1/2	263.81	1/2		1/2	1/2		1/2		1/2
3/4	2,127.59	3/4	1,749.90	3/4	1,372.21	3/4	994.68	3/4	617.21	3/4	256.85	3/4		3/4	3/4		3/4		3/4
10	2,119.72	10	1,742.03	10	1,364.34	10	986.82	10	609.34	10	250.01	10		10	10		10		10
1/4	2,111.85	1/4	1,734.16	1/4	1,356.47	1/4	978.96	1/4	601.47	1/4	243.16	1/4		1/4	1/4		1/4		1/4
1/2	2,103.99	1/2	1,726.29	1/2	1,348.60	1/2	971.11	1/2	593.60	1/2	236.32	1/2		1/2	1/2		1/2		1/2
3/4	2,096.12	3/4	1,718.42	3/4	1,340.73	3/4	963.25	3/4	585.74	3/4	229.48	3/4		3/4	3/4		3/4		3/4
11	2,088.25	11	1,710.56	11	1,332.86	11	955.39	11	577.87	11	222.74	11		11	11		11		11
1/4	2,080.38	1/4	1,702.69	1/4	1,324.99	1/4	947.54	1/4	570.00	1/4	216.01	1/4		1/4	1/4		1/4		1/4
1/2	2,072.51	1/2	1,694.82	1/2	1,317.13	1/2	939.68	1/2	562.13	1/2	209.27	1/2		1/2	1/2		1/2		1/2
3/4	2,064.64	3/4	1,686.95	3/4	1,309.26	3/4	931.82	3/4	554.26	3/4	202.54	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "KIRBY 29102"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	IN	0
1/4		1/4		1/4		1/4	4,768.44	1/4	4,451.25	1/4	4,127.62	1/4	3,788.86	1/4	3,435.46	1/4	3,077.62	1/4	2,718.36		
1/2		1/2		1/2		1/2	4,763.32	1/2	4,444.67	1/2	4,120.72	1/2	3,781.65	1/2	3,428.01	1/2	3,070.14	1/2	2,710.88		
3/4		3/4		3/4		3/4	4,758.21	3/4	4,438.08	3/4	4,113.82	3/4	3,774.43	3/4	3,420.56	3/4	3,062.65	3/4	2,703.40		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,431.86</b>	<b>1</b>	<b>4,431.47</b>	<b>1</b>	<b>4,106.89</b>	<b>1</b>	<b>3,767.18</b>	<b>1</b>	<b>3,413.11</b>	<b>1</b>	<b>3,055.17</b>	<b>1</b>	<b>2,695.91</b>		
1/4		1/4		1/4		1/4	4,745.52	1/4	4,424.86	1/4	4,099.97	1/4	3,759.94	1/4	3,405.65	1/4	3,047.68	1/4	2,688.43		
1/2		1/2		1/2		1/2	4,739.17	1/2	4,418.26	1/2	4,093.04	1/2	3,752.69	1/2	3,398.20	1/2	3,040.20	1/2	2,680.94		
3/4		3/4		3/4		3/4	4,732.83	3/4	4,411.65	3/4	4,086.12	3/4	3,745.45	3/4	3,390.75	3/4	3,032.71	3/4	2,673.46		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,425.59</b>	<b>2</b>	<b>4,405.01</b>	<b>2</b>	<b>4,079.17</b>	<b>2</b>	<b>3,738.18</b>	<b>2</b>	<b>3,383.30</b>	<b>2</b>	<b>3,025.23</b>	<b>2</b>	<b>2,665.97</b>		
1/4		1/4		1/4		1/4	4,718.36	1/4	4,398.37	1/4	4,072.22	1/4	3,730.92	1/4	3,375.84	1/4	3,017.74	1/4	2,658.49		
1/2		1/2		1/2		1/2	4,711.13	1/2	4,391.74	1/2	4,065.27	1/2	3,723.65	1/2	3,368.39	1/2	3,010.26	1/2	2,651.00		
3/4		3/4		3/4		3/4	4,703.90	3/4	4,385.10	3/4	4,058.32	3/4	3,716.38	3/4	3,360.94	3/4	3,002.78	3/4	2,643.52		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,696.45</b>	<b>3</b>	<b>4,378.44</b>	<b>3</b>	<b>4,051.34</b>	<b>3</b>	<b>3,709.09</b>	<b>3</b>	<b>3,353.49</b>	<b>3</b>	<b>2,995.29</b>	<b>3</b>	<b>2,636.03</b>		
1/4		1/4		1/4		1/4	4,688.99	1/4	4,371.78	1/4	4,044.36	1/4	3,701.80	1/4	3,346.03	1/4	2,987.81	1/4	2,628.55		
1/2		1/2		1/2		1/2	4,681.54	1/2	4,365.12	1/2	4,037.38	1/2	3,694.51	1/2	3,338.58	1/2	2,980.32	1/2	2,621.07		
3/4		3/4		3/4		3/4	4,674.09	3/4	4,358.46	3/4	4,030.40	3/4	3,687.21	3/4	3,331.13	3/4	2,972.84	3/4	2,613.58		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,667.03</b>	<b>4</b>	<b>4,351.77</b>	<b>4</b>	<b>4,023.40</b>	<b>4</b>	<b>3,679.89</b>	<b>4</b>	<b>3,323.68</b>	<b>4</b>	<b>2,965.35</b>	<b>4</b>	<b>2,606.10</b>		
1/4		1/4		1/4		1/4	4,659.98	1/4	4,345.08	1/4	4,016.40	1/4	3,672.57	1/4	3,316.23	1/4	2,957.87	1/4	2,598.61		
1/2		1/2		1/2		1/2	4,652.92	1/2	4,338.39	1/2	4,009.39	1/2	3,665.25	1/2	3,308.77	1/2	2,950.38	1/2	2,591.13		
3/4		3/4		3/4		3/4	4,645.87	3/4	4,331.70	3/4	4,002.39	3/4	3,657.94	3/4	3,301.32	3/4	2,942.90	3/4	2,583.64		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,639.47</b>	<b>5</b>	<b>4,324.98</b>	<b>5</b>	<b>3,995.36</b>	<b>5</b>	<b>3,650.59</b>	<b>5</b>	<b>3,293.87</b>	<b>5</b>	<b>2,935.41</b>	<b>5</b>	<b>2,576.16</b>		
1/4		1/4		1/4		1/4	4,633.07	1/4	4,318.27	1/4	3,988.33	1/4	3,643.24	1/4	3,286.42	1/4	2,927.93	1/4	2,568.67		
1/2		1/2		1/2		1/2	4,626.67	1/2	4,311.55	1/2	3,981.30	1/2	3,635.90	1/2	3,278.96	1/2	2,920.45	1/2	2,561.19		
3/4		3/4		3/4		3/4	4,620.27	3/4	4,304.84	3/4	3,974.27	3/4	3,628.55	3/4	3,271.51	3/4	2,912.96	3/4	2,553.71		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,613.84</b>	<b>6</b>	<b>4,298.10</b>	<b>6</b>	<b>3,967.21</b>	<b>6</b>	<b>3,621.18</b>	<b>6</b>	<b>3,264.06</b>	<b>6</b>	<b>2,905.48</b>	<b>6</b>	<b>2,546.22</b>		
1/4		1/4		1/4		1/4	4,607.41	1/4	4,291.35	1/4	3,960.15	1/4	3,613.81	1/4	3,256.61	1/4	2,897.99	1/4	2,538.74		
1/2		1/2		1/2		1/2	4,600.99	1/2	4,284.61	1/2	3,953.10	1/2	3,606.43	1/2	3,249.15	1/2	2,890.51	1/2	2,531.25		
3/4		3/4		3/4		3/4	4,594.56	3/4	4,277.87	3/4	3,946.04	3/4	3,599.06	3/4	3,241.70	3/4	2,883.02	3/4	2,523.77		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,588.11</b>	<b>7</b>	<b>4,271.10</b>	<b>7</b>	<b>3,938.95</b>	<b>7</b>	<b>3,591.66</b>	<b>7</b>	<b>3,234.25</b>	<b>7</b>	<b>2,875.54</b>	<b>7</b>	<b>2,516.28</b>		
1/4		1/4		1/4		1/4	4,581.65	1/4	4,264.33	1/4	3,931.87	1/4	3,584.27	1/4	3,226.80	1/4	2,868.05	1/4	2,508.80		
1/2		1/2		1/2		1/2	4,575.20	1/2	4,257.57	1/2	3,924.79	1/2	3,576.87	1/2	3,219.34	1/2	2,860.57	1/2	2,501.31		
3/4		3/4		3/4		3/4	4,568.74	3/4	4,250.80	3/4	3,917.70	3/4	3,569.47	3/4	3,211.89	3/4	2,853.09	3/4	2,493.83		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,562.26</b>	<b>8</b>	<b>4,244.00</b>	<b>8</b>	<b>3,910.59</b>	<b>8</b>	<b>3,562.04</b>	<b>8</b>	<b>3,204.44</b>	<b>8</b>	<b>2,845.60</b>	<b>8</b>	<b>2,486.34</b>		
1/4		1/4		1/4		1/4	4,555.78	1/4	4,237.21	1/4	3,903.48	1/4	3,554.62	1/4	3,196.99	1/4	2,838.12	1/4	2,478.86		
1/2		1/2		1/2		1/2	4,549.30	1/2	4,230.41	1/2	3,896.37	1/2	3,547.19	1/2	3,189.53	1/2	2,830.63	1/2	2,471.38		
3/4		3/4		3/4		3/4	4,542.82	3/4	4,223.61	3/4	3,889.26	3/4	3,539.77	3/4	3,182.08	3/4	2,823.15	3/4	2,463.89		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,536.32</b>	<b>9</b>	<b>4,216.79</b>	<b>9</b>	<b>3,882.13</b>	<b>9</b>	<b>3,532.32</b>	<b>9</b>	<b>3,174.63</b>	<b>9</b>	<b>2,815.66</b>	<b>9</b>	<b>2,456.41</b>		
1/4		1/4		1/4		1/4	4,529.81	1/4	4,209.97	1/4	3,874.99	1/4	3,524.88	1/4	3,167.18	1/4	2,808.18	1/4	2,448.92		
1/2		1/2		1/2		1/2	4,523.30	1/2	4,203.15	1/2	3,867.85	1/2	3,517.43	1/2	3,159.72	1/2	2,800.69	1/2	2,441.44		
3/4		3/4		3/4		3/4	4,516.79	3/4	4,196.33	3/4	3,860.71	3/4	3,509.99	3/4	3,152.27	3/4	2,793.21	3/4	2,433.95		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,510.26</b>	<b>10</b>	<b>4,189.48</b>	<b>10</b>	<b>3,853.55</b>	<b>10</b>	<b>3,502.54</b>	<b>10</b>	<b>3,144.82</b>	<b>10</b>	<b>2,785.72</b>	<b>10</b>	<b>2,426.47</b>		
1/4		1/4		1/4		1/4	4,503.73	1/4	4,182.63	1/4	3,846.39	1/4	3,495.08	1/4	3,137.37	1/4	2,778.24	1/4	2,418.98		
1/2		1/2		1/2		1/2	4,497.19	1/2	4,175.78	1/2	3,839.22	1/2	3,487.63	1/2	3,129.92	1/2	2,770.76	1/2	2,411.50		
3/4		3/4		3/4		3/4	4,490.66	3/4	4,168.93	3/4	3,832.06	3/4	3,480.18	3/4	3,122.46	3/4	2,763.27	3/4	2,404.02		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,484.10</b>	<b>11</b>	<b>4,162.05</b>	<b>11</b>	<b>3,824.87</b>	<b>11</b>	<b>3,472.73</b>	<b>11</b>	<b>3,114.99</b>	<b>11</b>	<b>2,755.79</b>	<b>11</b>	<b>2,396.53</b>		
1/4		1/4		1/4		1/4	4,477.54	1/4	4,155.18	1/4	3,817.68	1/4	3,465.27	1/4	3,107.53	1/4	2,748.30	1/4	2,389.05		
1/2		1/2		1/2		1/2	4,470.98	1/2	4,148.30	1/2	3,810.49	1/2	3,457.82	1/2	3,100.06	1/2	2,740.82	1/2	2,381.56		
3/4		3/4		3/4		3/4	4,464.41	3/4	4,141.43	3/4	3,803.30	3/4	3,450.37	3/4	3,092.59	3/4	2,733.33	3/4	2,374.08		

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 29102"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,366.59	0	2,007.34	0	1,648.08	0	1,297.46	0	952.41	0	594.83	0	235.58	0		0		0	
1/4	2,359.11	1/4	1,999.85	1/4	1,640.60	1/4	1,290.25	1/4	945.23	1/4	587.34	1/4	228.10	1/4	1/4		1/4		1/4
1/2	2,351.62	1/2	1,992.37	1/2	1,633.11	1/2	1,283.05	1/2	938.05	1/2	579.86	1/2	220.61	1/2	1/2		1/2		1/2
3/4	2,344.14	3/4	1,984.88	3/4	1,625.63	3/4	1,275.85	3/4	930.87	3/4	572.37	3/4	213.13	3/4	3/4		3/4		3/4
1	2,336.65	1	1,977.40	1	1,618.14	1	1,268.65	1	923.57	1	564.89	1	205.65	1	1		1		1
1/4	2,329.17	1/4	1,969.91	1/4	1,610.66	1/4	1,261.45	1/4	916.28	1/4	557.41	1/4	198.16	1/4	1/4		1/4		1/4
1/2	2,321.69	1/2	1,962.43	1/2	1,603.17	1/2	1,254.25	1/2	908.98	1/2	549.92	1/2	190.68	1/2	1/2		1/2		1/2
3/4	2,314.20	3/4	1,954.95	3/4	1,595.69	3/4	1,247.05	3/4	901.68	3/4	542.44	3/4	183.20	3/4	3/4		3/4		3/4
2	2,306.72	2	1,947.46	2	1,588.20	2	1,239.84	2	894.20	2	534.95	2	175.72	2	2		2		2
1/4	2,299.23	1/4	1,939.98	1/4	1,580.72	1/4	1,232.64	1/4	886.71	1/4	527.47	1/4	168.25	1/4	1/4		1/4		1/4
1/2	2,291.75	1/2	1,932.49	1/2	1,573.24	1/2	1,225.44	1/2	879.23	1/2	519.98	1/2	160.77	1/2	1/2		1/2		1/2
3/4	2,284.26	3/4	1,925.01	3/4	1,565.75	3/4	1,218.24	3/4	871.75	3/4	512.50	3/4	153.30	3/4	3/4		3/4		3/4
3	2,276.78	3	1,917.52	3	1,558.27	3	1,211.04	3	864.26	3	505.02	3	145.83	3	3		3		3
1/4	2,269.29	1/4	1,910.04	1/4	1,550.78	1/4	1,203.85	1/4	856.78	1/4	497.53	1/4	138.37	1/4	1/4		1/4		1/4
1/2	2,261.81	1/2	1,902.55	1/2	1,543.30	1/2	1,196.65	1/2	849.29	1/2	490.05	1/2	130.90	1/2	1/2		1/2		1/2
3/4	2,254.33	3/4	1,895.07	3/4	1,535.81	3/4	1,189.45	3/4	841.81	3/4	482.56	3/4	123.44	3/4	3/4		3/4		3/4
4	2,246.84	4	1,887.58	4	1,528.43	4	1,182.26	4	834.32	4	475.08	4	115.99	4	4		4		4
1/4	2,239.36	1/4	1,880.10	1/4	1,521.06	1/4	1,175.08	1/4	826.84	1/4	467.59	1/4	108.54	1/4	1/4		1/4		1/4
1/2	2,231.87	1/2	1,872.62	1/2	1,513.68	1/2	1,167.89	1/2	819.36	1/2	460.11	1/2	101.10	1/2	1/2		1/2		1/2
3/4	2,224.39	3/4	1,865.13	3/4	1,506.30	3/4	1,160.70	3/4	811.87	3/4	452.63	3/4	93.65	3/4	3/4		3/4		3/4
5	2,216.90	5	1,857.65	5	1,499.10	5	1,153.51	5	804.39	5	445.14	5	86.24	5	5		5		5
1/4	2,209.42	1/4	1,850.16	1/4	1,491.90	1/4	1,146.33	1/4	796.90	1/4	437.66	1/4	78.82	1/4	1/4		1/4		1/4
1/2	2,201.93	1/2	1,842.68	1/2	1,484.70	1/2	1,139.14	1/2	789.42	1/2	430.17	1/2	71.40	1/2	1/2		1/2		1/2
3/4	2,194.45	3/4	1,835.19	3/4	1,477.49	3/4	1,131.95	3/4	781.93	3/4	422.69	3/4	63.99	3/4	3/4		3/4		3/4
6	2,186.96	6	1,827.71	6	1,470.29	6	1,124.77	6	774.45	6	415.20	6	57.03	6	6		6		6
1/4	2,179.48	1/4	1,820.22	1/4	1,463.09	1/4	1,117.59	1/4	766.97	1/4	407.72	1/4	50.08	1/4	1/4		1/4		1/4
1/2	2,172.00	1/2	1,812.74	1/2	1,455.89	1/2	1,110.41	1/2	759.48	1/2	400.24	1/2	43.12	1/2	1/2		1/2		1/2
3/4	2,164.51	3/4	1,805.26	3/4	1,448.69	3/4	1,103.23	3/4	752.00	3/4	392.75	3/4	36.17	3/4	3/4		3/4		3/4
7	2,157.03	7	1,797.77	7	1,441.49	7	1,096.05	7	744.51	7	385.27	7	30.87	7	7		7		7
1/4	2,149.54	1/4	1,790.29	1/4	1,434.28	1/4	1,088.86	1/4	737.03	1/4	377.78	1/4	25.57	1/4	1/4		1/4		1/4
1/2	2,142.06	1/2	1,782.80	1/2	1,427.08	1/2	1,081.68	1/2	729.54	1/2	370.30	1/2	20.27	1/2	1/2		1/2		1/2
3/4	2,134.57	3/4	1,775.32	3/4	1,419.88	3/4	1,074.50	3/4	722.06	3/4	362.81	3/4	14.97	3/4	3/4		3/4		3/4
8	2,127.09	8	1,767.83	8	1,412.68	8	1,067.32	8	714.58	8	355.33	8		8	8		8		8
1/4	2,119.60	1/4	1,760.35	1/4	1,405.48	1/4	1,060.14	1/4	707.09	1/4	347.84	1/4		1/4	1/4		1/4		1/4
1/2	2,112.12	1/2	1,752.86	1/2	1,398.28	1/2	1,052.96	1/2	699.61	1/2	340.36	1/2		1/2	1/2		1/2		1/2
3/4	2,104.64	3/4	1,745.38	3/4	1,391.08	3/4	1,045.77	3/4	692.12	3/4	332.88	3/4		3/4	3/4		3/4		3/4
9	2,097.15	9	1,737.89	9	1,383.87	9	1,038.59	9	684.64	9	325.39	9		9	9		9		9
1/4	2,089.67	1/4	1,730.41	1/4	1,376.67	1/4	1,031.41	1/4	677.15	1/4	317.91	1/4		1/4	1/4		1/4		1/4
1/2	2,082.18	1/2	1,722.93	1/2	1,369.47	1/2	1,024.23	1/2	669.67	1/2	310.42	1/2		1/2	1/2		1/2		1/2
3/4	2,074.70	3/4	1,715.44	3/4	1,362.27	3/4	1,017.05	3/4	662.19	3/4	302.94	3/4		3/4	3/4		3/4		3/4
10	2,067.21	10	1,707.96	10	1,355.07	10	1,009.87	10	654.70	10	295.45	10		10	10		10		10
1/4	2,059.73	1/4	1,700.47	1/4	1,347.87	1/4	1,002.68	1/4	647.22	1/4	287.97	1/4		1/4	1/4		1/4		1/4
1/2	2,052.24	1/2	1,692.99	1/2	1,340.67	1/2	995.50	1/2	639.73	1/2	280.49	1/2		1/2	1/2		1/2		1/2
3/4	2,044.76	3/4	1,685.50	3/4	1,333.46	3/4	988.32	3/4	632.25	3/4	273.00	3/4		3/4	3/4		3/4		3/4
11	2,037.27	11	1,678.02	11	1,326.26	11	981.14	11	624.76	11	265.52	11		11	11		11		11
1/4	2,029.79	1/4	1,670.53	1/4	1,319.06	1/4	973.96	1/4	617.28	1/4	258.03	1/4		1/4	1/4		1/4		1/4
1/2	2,022.31	1/2	1,663.05	1/2	1,311.86	1/2	966.78	1/2	609.80	1/2	250.55	1/2		1/2	1/2		1/2		1/2
3/4	2,014.82	3/4	1,655.57	3/4	1,304.66	3/4	959.59	3/4	602.31	3/4	243.06	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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





# BARGE "KIRBY 29102"

## 2 STBD 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,783.49	0	4,463.28	0	4,138.94	0	3,799.47	0	3,445.52	0	3,087.54	0	2,728.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,777.14	1/4	4,456.67	1/4	4,132.01	1/4	3,792.22	1/4	3,438.06	1/4	3,080.06	1/4	2,720.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.79	1/2	4,450.06	1/2	4,125.09	1/2	3,784.98	1/2	3,430.61	1/2	3,072.57	1/2	2,713.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,764.45	3/4	4,443.45	3/4	4,118.16	3/4	3,777.73	3/4	3,423.15	3/4	3,065.08	3/4	2,705.74		
1		1		1		1	4,758.10	1	4,436.84	1	4,111.23	1	3,770.49	1	3,415.70	1	3,057.60	1	2,698.25		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,750.87	1/4	4,430.20	1/4	4,104.28	1/4	3,763.22	1/4	3,408.24	1/4	3,050.11	1/4	2,690.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.63	1/2	4,423.57	1/2	4,097.33	1/2	3,755.95	1/2	3,400.79	1/2	3,042.63	1/2	2,683.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,736.40	3/4	4,416.93	3/4	4,090.38	3/4	3,748.68	3/4	3,393.34	3/4	3,035.14	3/4	2,675.79		
2		2		2		2	4,729.16	2	4,410.29	2	4,083.43	2	3,741.41	2	3,385.88	2	3,027.65	2	2,668.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,721.71	1/4	4,403.63	1/4	4,076.45	1/4	3,734.12	1/4	3,378.43	1/4	3,020.17	1/4	2,660.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,714.26	1/2	4,396.96	1/2	4,069.47	1/2	3,726.82	1/2	3,370.97	1/2	3,012.68	1/2	2,653.33		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,706.80	3/4	4,390.30	3/4	4,062.49	3/4	3,719.53	3/4	3,363.52	3/4	3,005.19	3/4	2,645.85		
3		3		3		3	4,699.35	3	4,383.64	3	4,055.51	3	3,712.24	3	3,356.07	3	2,997.71	3	2,638.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,692.29	1/4	4,376.95	1/4	4,048.50	1/4	3,704.91	1/4	3,348.61	1/4	2,990.22	1/4	2,630.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685.23	1/2	4,370.26	1/2	4,041.50	1/2	3,697.59	1/2	3,341.16	1/2	2,982.73	1/2	2,623.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.18	3/4	4,363.57	3/4	4,034.49	3/4	3,690.27	3/4	3,333.70	3/4	2,975.25	3/4	2,615.90		
4		4		4		4	4,671.12	4	4,356.87	4	4,027.49	4	3,682.95	4	3,326.25	4	2,967.76	4	2,608.41		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,664.72	1/4	4,350.16	1/4	4,020.45	1/4	3,675.60	1/4	3,318.79	1/4	2,960.28	1/4	2,600.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.32	1/2	4,343.44	1/2	4,013.42	1/2	3,668.25	1/2	3,311.34	1/2	2,952.79	1/2	2,593.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,651.92	3/4	4,336.73	3/4	4,006.39	3/4	3,660.91	3/4	3,303.89	3/4	2,945.30	3/4	2,585.96		
5		5		5		5	4,645.51	5	4,330.01	5	3,999.36	5	3,653.56	5	3,296.43	5	2,937.82	5	2,578.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.09	1/4	4,323.26	1/4	3,992.30	1/4	3,646.19	1/4	3,288.98	1/4	2,930.33	1/4	2,570.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,632.66	1/2	4,316.52	1/2	3,985.24	1/2	3,638.81	1/2	3,281.52	1/2	2,922.84	1/2	2,563.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,626.23	3/4	4,309.78	3/4	3,978.18	3/4	3,631.44	3/4	3,274.07	3/4	2,915.36	3/4	2,556.01		
6		6		6		6	4,619.80	6	4,303.03	6	3,971.12	6	3,624.06	6	3,266.62	6	2,907.87	6	2,548.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.34	1/4	4,296.26	1/4	3,964.04	1/4	3,616.66	1/4	3,259.16	1/4	2,900.38	1/4	2,541.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,606.89	1/2	4,289.49	1/2	3,956.95	1/2	3,609.26	1/2	3,251.71	1/2	2,892.90	1/2	2,533.55		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,600.43	3/4	4,282.72	3/4	3,949.87	3/4	3,601.86	3/4	3,244.25	3/4	2,885.41	3/4	2,526.06		
7		7		7		7	4,593.98	7	4,275.95	7	3,942.78	7	3,594.46	7	3,236.80	7	2,877.92	7	2,518.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,587.50	1/4	4,269.16	1/4	3,935.67	1/4	3,587.03	1/4	3,229.34	1/4	2,870.44	1/4	2,511.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,581.01	1/2	4,262.36	1/2	3,928.56	1/2	3,579.61	1/2	3,221.89	1/2	2,862.95	1/2	2,503.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,574.53	3/4	4,255.56	3/4	3,921.44	3/4	3,572.18	3/4	3,214.44	3/4	2,855.47	3/4	2,496.12		
8		8		8		8	4,568.05	8	4,248.76	8	3,914.33	8	3,564.75	8	3,206.98	8	2,847.98	8	2,488.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,561.54	1/4	4,241.94	1/4	3,907.19	1/4	3,557.30	1/4	3,199.53	1/4	2,840.49	1/4	2,481.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,555.03	1/2	4,235.12	1/2	3,900.05	1/2	3,549.86	1/2	3,192.07	1/2	2,833.01	1/2	2,473.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,548.52	3/4	4,228.29	3/4	3,892.92	3/4	3,542.41	3/4	3,184.62	3/4	2,825.52	3/4	2,466.17		
9		9		9		9	4,542.01	9	4,221.47	9	3,885.78	9	3,534.97	9	3,177.16	9	2,818.03	9	2,458.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,535.48	1/4	4,214.62	1/4	3,878.61	1/4	3,527.51	1/4	3,169.71	1/4	2,810.55	1/4	2,451.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,528.94	1/2	4,207.77	1/2	3,871.45	1/2	3,520.06	1/2	3,162.26	1/2	2,803.06	1/2	2,443.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,522.41	3/4	4,200.92	3/4	3,864.28	3/4	3,512.60	3/4	3,154.80	3/4	2,795.57	3/4	2,436.23		
10		10		10		10	4,515.87	10	4,194.07	10	3,857.12	10	3,505.15	10	3,147.35	10	2,788.09	10	2,428.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,509.31	1/4	4,187.19	1/4	3,849.92	1/4	3,497.70	1/4	3,139.88	1/4	2,780.60	1/4	2,421.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,502.75	1/2	4,180.31	1/2	3,842.73	1/2	3,490.24	1/2	3,132.42	1/2	2,773.12	1/2	2,413.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,496.19	3/4	4,173.44	3/4	3,835.54	3/4	3,482.79	3/4	3,124.95	3/4	2,765.63	3/4	2,406.28		
11		11		11		11	4,489.62	11	4,166.56	11	3,828.34	11	3,475.33	11	3,117.49	11	2,758.14	11	2,398.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,483.04	1/4	4,159.66	1/4	3,821.13	1/4	3,467.88	1/4	3,110.00	1/4	2,750.66	1/4	2,391.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,793.72	1/2	4,476.45	1/2	4,152.75	1/2	3,813.91	1/2	3,460.42	1/2	3,102.52	1/2	2,743.17	1/2	2,383.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,788.60	3/4	4,469.87	3/4	4,145.85	3/4	3,806.69	3/4	3,452.97	3/4	3,095.03	3/4	2,735.68	3/4	2,376.34

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 29102"

## 2 STBD 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	2,368.85	0	2,009.50	0	1,650.16	0	1,290.81	0	931.77	0	572.51	0	213.18	0		0		0	
1/4	2,361.36	1/4	2,002.02	1/4	1,642.67	1/4	1,283.32	1/4	924.30	1/4	565.03	1/4	205.70	1/4	1/4		1/4		1/4
1/2	2,353.88	1/2	1,994.53	1/2	1,635.18	1/2	1,275.84	1/2	916.82	1/2	557.54	1/2	198.21	1/2	1/2		1/2		1/2
3/4	2,346.39	3/4	1,987.04	3/4	1,627.70	3/4	1,268.35	3/4	909.35	3/4	550.05	3/4	190.73	3/4	3/4		3/4		3/4
1	2,338.90	1	1,979.56	1	1,620.21	1	1,260.86	1	901.87	1	542.57	1	183.24	1	1		1		1
1/4	2,331.42	1/4	1,972.07	1/4	1,612.72	1/4	1,253.38	1/4	894.39	1/4	535.08	1/4	175.77	1/4	1/4		1/4		1/4
1/2	2,323.93	1/2	1,964.58	1/2	1,605.24	1/2	1,245.89	1/2	886.92	1/2	527.59	1/2	168.29	1/2	1/2		1/2		1/2
3/4	2,316.44	3/4	1,957.10	3/4	1,597.75	3/4	1,238.40	3/4	879.44	3/4	520.11	3/4	160.81	3/4	3/4		3/4		3/4
2	2,308.96	2	1,949.61	2	1,590.26	2	1,230.92	2	871.96	2	512.62	2	153.33	2	2		2		2
1/4	2,301.47	1/4	1,942.12	1/4	1,582.78	1/4	1,223.43	1/4	864.47	1/4	505.14	1/4	145.87	1/4	1/4		1/4		1/4
1/2	2,293.99	1/2	1,934.64	1/2	1,575.29	1/2	1,215.94	1/2	856.98	1/2	497.65	1/2	138.40	1/2	1/2		1/2		1/2
3/4	2,286.50	3/4	1,927.15	3/4	1,567.80	3/4	1,208.46	3/4	849.50	3/4	490.16	3/4	130.93	3/4	3/4		3/4		3/4
3	2,279.01	3	1,919.67	3	1,560.32	3	1,200.97	3	842.01	3	482.68	3	123.47	3	3		3		3
1/4	2,271.53	1/4	1,912.18	1/4	1,552.83	1/4	1,193.48	1/4	834.53	1/4	475.19	1/4	116.02	1/4	1/4		1/4		1/4
1/2	2,264.04	1/2	1,904.69	1/2	1,545.35	1/2	1,186.00	1/2	827.04	1/2	467.71	1/2	108.57	1/2	1/2		1/2		1/2
3/4	2,256.55	3/4	1,897.21	3/4	1,537.86	3/4	1,178.51	3/4	819.55	3/4	460.22	3/4	101.12	3/4	3/4		3/4		3/4
4	2,249.07	4	1,889.72	4	1,530.37	4	1,171.03	4	812.07	4	452.73	4	93.67	4	4		4		4
1/4	2,241.58	1/4	1,882.23	1/4	1,522.89	1/4	1,163.54	1/4	804.58	1/4	445.25	1/4	86.26	1/4	1/4		1/4		1/4
1/2	2,234.09	1/2	1,874.75	1/2	1,515.40	1/2	1,156.05	1/2	797.09	1/2	437.76	1/2	78.84	1/2	1/2		1/2		1/2
3/4	2,226.61	3/4	1,867.26	3/4	1,507.91	3/4	1,148.57	3/4	789.61	3/4	430.28	3/4	71.42	3/4	3/4		3/4		3/4
5	2,219.12	5	1,859.77	5	1,500.43	5	1,141.08	5	782.12	5	422.79	5	64.00	5	5		5		5
1/4	2,211.64	1/4	1,852.29	1/4	1,492.94	1/4	1,133.60	1/4	774.64	1/4	415.30	1/4	57.05	1/4	1/4		1/4		1/4
1/2	2,204.15	1/2	1,844.80	1/2	1,485.45	1/2	1,126.12	1/2	767.15	1/2	407.82	1/2	50.09	1/2	1/2		1/2		1/2
3/4	2,196.66	3/4	1,837.32	3/4	1,477.97	3/4	1,118.63	3/4	759.66	3/4	400.33	3/4	43.13	3/4	3/4		3/4		3/4
6	2,189.18	6	1,829.83	6	1,470.48	6	1,111.15	6	752.18	6	392.85	6	36.17	6	6		6		6
1/4	2,181.69	1/4	1,822.34	1/4	1,463.00	1/4	1,103.68	1/4	744.69	1/4	385.36	1/4	30.87	1/4	1/4		1/4		1/4
1/2	2,174.20	1/2	1,814.86	1/2	1,455.51	1/2	1,096.20	1/2	737.21	1/2	377.87	1/2	25.57	1/2	1/2		1/2		1/2
3/4	2,166.72	3/4	1,807.37	3/4	1,448.02	3/4	1,088.73	3/4	729.72	3/4	370.39	3/4	20.27	3/4	3/4		3/4		3/4
7	2,159.23	7	1,799.88	7	1,440.54	7	1,081.26	7	722.23	7	362.90	7	14.97	7	7		7		7
1/4	2,151.74	1/4	1,792.40	1/4	1,433.05	1/4	1,073.78	1/4	714.75	1/4	355.41	1/4		1/4	1/4		1/4		1/4
1/2	2,144.26	1/2	1,784.91	1/2	1,425.56	1/2	1,066.31	1/2	707.26	1/2	347.93	1/2		1/2	1/2		1/2		1/2
3/4	2,136.77	3/4	1,777.42	3/4	1,418.08	3/4	1,058.83	3/4	699.78	3/4	340.44	3/4		3/4	3/4		3/4		3/4
8	2,129.28	8	1,769.94	8	1,410.59	8	1,051.36	8	692.29	8	332.96	8		8	8		8		8
1/4	2,121.80	1/4	1,762.45	1/4	1,403.10	1/4	1,043.88	1/4	684.80	1/4	325.47	1/4		1/4	1/4		1/4		1/4
1/2	2,114.31	1/2	1,754.96	1/2	1,395.62	1/2	1,036.41	1/2	677.32	1/2	317.98	1/2		1/2	1/2		1/2		1/2
3/4	2,106.83	3/4	1,747.48	3/4	1,388.13	3/4	1,028.94	3/4	669.83	3/4	310.50	3/4		3/4	3/4		3/4		3/4
9	2,099.34	9	1,739.99	9	1,380.64	9	1,021.46	9	662.34	9	303.01	9		9	9		9		9
1/4	2,091.85	1/4	1,732.51	1/4	1,373.16	1/4	1,013.99	1/4	654.86	1/4	295.53	1/4		1/4	1/4		1/4		1/4
1/2	2,084.37	1/2	1,725.02	1/2	1,365.67	1/2	1,006.51	1/2	647.37	1/2	288.04	1/2		1/2	1/2		1/2		1/2
3/4	2,076.88	3/4	1,717.53	3/4	1,358.19	3/4	999.04	3/4	639.89	3/4	280.55	3/4		3/4	3/4		3/4		3/4
10	2,069.39	10	1,710.05	10	1,350.70	10	991.57	10	632.40	10	273.07	10		10	10		10		10
1/4	2,061.91	1/4	1,702.56	1/4	1,343.21	1/4	984.09	1/4	624.91	1/4	265.58	1/4		1/4	1/4		1/4		1/4
1/2	2,054.42	1/2	1,695.07	1/2	1,335.73	1/2	976.62	1/2	617.43	1/2	258.10	1/2		1/2	1/2		1/2		1/2
3/4	2,046.93	3/4	1,687.59	3/4	1,328.24	3/4	969.14	3/4	609.94	3/4	250.61	3/4		3/4	3/4		3/4		3/4
11	2,039.45	11	1,680.10	11	1,320.75	11	961.67	11	602.46	11	243.12	11		11	11		11		11
1/4	2,031.96	1/4	1,672.61	1/4	1,313.27	1/4	954.19	1/4	594.97	1/4	235.64	1/4		1/4	1/4		1/4		1/4
1/2	2,024.48	1/2	1,665.13	1/2	1,305.78	1/2	946.72	1/2	587.48	1/2	228.15	1/2		1/2	1/2		1/2		1/2
3/4	2,016.99	3/4	1,657.64	3/4	1,298.29	3/4	939.25	3/4	580.00	3/4	220.67	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

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



# BARGE "KIRBY 29102"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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
							4,366.91		4,126.77		3,880.87		3,622.96		3,353.25		3,004.30		2,647.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.28	1/4	4,121.76	1/4	3,875.61	1/4	3,617.45	1/4	3,347.54	1/4	2,996.88	1/4	2,640.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,357.64	1/2	4,116.76	1/2	3,870.34	1/2	3,611.94	1/2	3,341.84	1/2	2,989.45	1/2	2,633.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,353.01	3/4	4,111.75	3/4	3,865.08	3/4	3,606.43	3/4	3,336.13	3/4	2,982.03	3/4	2,625.58
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,348.38</b>	<b>1</b>	<b>4,106.74</b>	<b>1</b>	<b>3,859.82</b>	<b>1</b>	<b>3,600.92</b>	<b>1</b>	<b>3,330.43</b>	<b>1</b>	<b>2,974.60</b>	<b>1</b>	<b>2,618.15</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,344.22	1/4	4,101.71	1/4	3,854.54	1/4	3,595.39	1/4	3,323.00	1/4	2,967.17	1/4	2,610.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,340.07	1/2	4,096.68	1/2	3,849.26	1/2	3,589.86	1/2	3,315.57	1/2	2,959.75	1/2	2,603.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,335.92	3/4	4,091.66	3/4	3,843.98	3/4	3,584.32	3/4	3,308.14	3/4	2,952.32	3/4	2,595.87
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,331.77</b>	<b>2</b>	<b>4,086.63</b>	<b>2</b>	<b>3,838.70</b>	<b>2</b>	<b>3,578.79</b>	<b>2</b>	<b>3,300.71</b>	<b>2</b>	<b>2,944.90</b>	<b>2</b>	<b>2,588.45</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,326.41	1/4	4,081.58	1/4	3,833.40	1/4	3,573.24	1/4	3,293.28	1/4	2,937.47	1/4	2,581.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,321.06	1/2	4,076.53	1/2	3,828.11	1/2	3,567.69	1/2	3,285.85	1/2	2,930.04	1/2	2,573.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,315.70	3/4	4,071.48	3/4	3,822.81	3/4	3,562.14	3/4	3,278.42	3/4	2,922.62	3/4	2,566.17
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,310.34</b>	<b>3</b>	<b>4,066.43</b>	<b>3</b>	<b>3,817.51</b>	<b>3</b>	<b>3,556.59</b>	<b>3</b>	<b>3,271.00</b>	<b>3</b>	<b>2,915.19</b>	<b>3</b>	<b>2,558.74</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,304.64	1/4	4,061.36	1/4	3,812.19	1/4	3,551.02	1/4	3,263.57	1/4	2,907.77	1/4	2,551.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,298.93	1/2	4,056.29	1/2	3,806.87	1/2	3,545.45	1/2	3,256.14	1/2	2,900.34	1/2	2,543.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,293.23	3/4	4,051.22	3/4	3,801.55	3/4	3,539.89	3/4	3,248.71	3/4	2,892.91	3/4	2,536.47
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,287.53</b>	<b>4</b>	<b>4,046.15</b>	<b>4</b>	<b>3,796.22</b>	<b>4</b>	<b>3,534.32</b>	<b>4</b>	<b>3,241.28</b>	<b>4</b>	<b>2,885.49</b>	<b>4</b>	<b>2,529.04</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,281.82	1/4	4,041.06	1/4	3,790.88	1/4	3,528.73	1/4	3,233.85	1/4	2,878.06	1/4	2,521.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,276.12	1/2	4,035.97	1/2	3,785.54	1/2	3,523.13	1/2	3,226.42	1/2	2,870.64	1/2	2,514.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,270.41	3/4	4,030.88	3/4	3,780.20	3/4	3,517.54	3/4	3,218.99	3/4	2,863.21	3/4	2,506.76
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,264.71</b>	<b>5</b>	<b>4,025.78</b>	<b>5</b>	<b>3,774.86</b>	<b>5</b>	<b>3,511.95</b>	<b>5</b>	<b>3,211.56</b>	<b>5</b>	<b>2,855.78</b>	<b>5</b>	<b>2,499.34</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,259.84	1/4	4,020.67	1/4	3,769.50	1/4	3,506.34	1/4	3,204.16	1/4	2,848.36	1/4	2,491.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,254.98	1/2	4,015.56	1/2	3,764.14	1/2	3,500.73	1/2	3,196.76	1/2	2,840.93	1/2	2,484.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,250.12	3/4	4,010.45	3/4	3,758.77	3/4	3,495.12	3/4	3,189.36	3/4	2,833.51	3/4	2,477.06
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,245.25</b>	<b>6</b>	<b>4,005.34</b>	<b>6</b>	<b>3,753.41</b>	<b>6</b>	<b>3,489.51</b>	<b>6</b>	<b>3,181.95</b>	<b>6</b>	<b>2,826.08</b>	<b>6</b>	<b>2,469.63</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,240.37	1/4	4,000.20	1/4	3,748.03	1/4	3,483.87	1/4	3,174.55	1/4	2,818.65	1/4	2,462.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,235.49	1/2	3,995.07	1/2	3,742.65	1/2	3,478.24	1/2	3,167.15	1/2	2,811.23	1/2	2,454.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,230.61	3/4	3,989.94	3/4	3,737.27	3/4	3,472.61	3/4	3,159.75	3/4	2,803.80	3/4	2,447.35
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,225.72</b>	<b>7</b>	<b>3,984.80</b>	<b>7</b>	<b>3,731.88</b>	<b>7</b>	<b>3,466.97</b>	<b>7</b>	<b>3,152.35</b>	<b>7</b>	<b>2,796.38</b>	<b>7</b>	<b>2,439.93</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,220.82	1/4	3,979.65	1/4	3,726.48	1/4	3,461.32	1/4	3,144.94	1/4	2,788.95	1/4	2,432.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,215.91	1/2	3,974.50	1/2	3,721.07	1/2	3,455.67	1/2	3,137.54	1/2	2,781.52	1/2	2,425.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,211.00	3/4	3,969.34	3/4	3,715.67	3/4	3,450.01	3/4	3,130.14	3/4	2,774.10	3/4	2,417.65
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,206.10</b>	<b>8</b>	<b>3,964.19</b>	<b>8</b>	<b>3,710.26</b>	<b>8</b>	<b>3,444.36</b>	<b>8</b>	<b>3,122.74</b>	<b>8</b>	<b>2,766.67</b>	<b>8</b>	<b>2,410.22</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,201.17	1/4	3,959.01	1/4	3,704.84	1/4	3,438.69	1/4	3,115.34	1/4	2,759.25	1/4	2,402.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,196.25	1/2	3,953.83	1/2	3,699.42	1/2	3,433.01	1/2	3,107.93	1/2	2,751.82	1/2	2,395.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,191.33	3/4	3,948.66	3/4	3,693.99	3/4	3,427.33	3/4	3,100.53	3/4	2,744.39	3/4	2,387.95
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,186.40</b>	<b>9</b>	<b>3,943.48</b>	<b>9</b>	<b>3,688.57</b>	<b>9</b>	<b>3,421.66</b>	<b>9</b>	<b>3,093.13</b>	<b>9</b>	<b>2,736.97</b>	<b>9</b>	<b>2,380.52</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,181.45	1/4	3,938.28	1/4	3,683.12	1/4	3,415.96	1/4	3,085.73	1/4	2,729.54	1/4	2,373.09
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,176.50	1/2	3,933.09	1/2	3,677.67	1/2	3,410.27	1/2	3,078.33	1/2	2,722.12	1/2	2,365.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,171.55	3/4	3,927.89	3/4	3,672.23	3/4	3,404.57	3/4	3,070.92	3/4	2,714.69	3/4	2,358.24
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,166.60</b>	<b>10</b>	<b>3,922.70</b>	<b>10</b>	<b>3,666.78</b>	<b>10</b>	<b>3,398.88</b>	<b>10</b>	<b>3,063.52</b>	<b>10</b>	<b>2,707.26</b>	<b>10</b>	<b>2,350.81</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,161.64	1/4	3,917.48	1/4	3,661.31	1/4	3,393.17	1/4	3,056.12	1/4	2,699.84	1/4	2,343.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,156.67	1/2	3,912.26	1/2	3,655.85	1/2	3,387.47	1/2	3,048.72	1/2	2,692.41	1/2	2,335.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,151.71	3/4	3,907.04	3/4	3,650.38	3/4	3,381.77	3/4	3,041.31	3/4	2,684.99	3/4	2,328.53
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,146.74</b>	<b>11</b>	<b>3,901.82</b>	<b>11</b>	<b>3,644.92</b>	<b>11</b>	<b>3,376.06</b>	<b>11</b>	<b>3,033.91</b>	<b>11</b>	<b>2,677.56</b>	<b>11</b>	<b>2,321.11</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,141.75	1/4	3,896.58	1/4	3,639.43	1/4	3,370.36	1/4	3,026.51	1/4	2,670.13	1/4	2,313.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,136.76	1/2	3,891.34	1/2	3,633.94	1/2	3,364.65	1/2	3,019.11	1/2	2,662.71	1/2	2,306.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,131.76	3/4	3,886.11	3/4	3,628.45	3/4	3,358.95	3/4	3,011.71	3/4	2,655.28	3/4	2,298.83

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 29102"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,291.40	0	1,934.53	0	1,578.54	0	1,221.50	0	877.74	0	520.78	0	163.57	0		0		0	
1/4	2,283.98	1/4	1,927.09	1/4	1,571.13	1/4	1,214.32	1/4	870.32	1/4	513.34	1/4	156.13	1/4	1/4	1/4		1/4	1/4
1/2	2,276.55	1/2	1,919.65	1/2	1,563.71	1/2	1,207.15	1/2	862.89	1/2	505.89	1/2	148.68	1/2	1/2	1/2		1/2	1/2
3/4	2,269.12	3/4	1,912.21	3/4	1,556.30	3/4	1,199.98	3/4	855.47	3/4	498.45	3/4	141.24	3/4	3/4	3/4		3/4	3/4
1	2,261.70	1	1,904.77	1	1,548.88	1	1,192.81	1	848.05	1	491.01	1	133.80	1	1	1		1	1
1/4	2,254.27	1/4	1,897.36	1/4	1,541.44	1/4	1,185.63	1/4	840.63	1/4	483.57	1/4	126.36	1/4	1/4	1/4		1/4	1/4
1/2	2,246.84	1/2	1,889.94	1/2	1,534.00	1/2	1,178.46	1/2	833.21	1/2	476.13	1/2	118.92	1/2	1/2	1/2		1/2	1/2
3/4	2,239.42	3/4	1,882.53	3/4	1,526.56	3/4	1,171.29	3/4	825.79	3/4	468.68	3/4	111.48	3/4	3/4	3/4		3/4	3/4
2	2,231.99	2	1,875.11	2	1,519.12	2	1,164.12	2	818.37	2	461.24	2	104.03	2	2	2		2	2
1/4	2,224.56	1/4	1,867.70	1/4	1,511.68	1/4	1,156.94	1/4	810.95	1/4	453.80	1/4	96.91	1/4	1/4	1/4		1/4	1/4
1/2	2,217.14	1/2	1,860.28	1/2	1,504.24	1/2	1,149.77	1/2	803.53	1/2	446.36	1/2	89.78	1/2	1/2	1/2		1/2	1/2
3/4	2,209.71	3/4	1,852.87	3/4	1,496.80	3/4	1,142.60	3/4	796.11	3/4	438.92	3/4	82.65	3/4	3/4	3/4		3/4	3/4
3	2,202.28	3	1,845.46	3	1,489.36	3	1,135.43	3	788.69	3	431.48	3	75.53	3	3	3		3	3
1/4	2,194.86	1/4	1,838.04	1/4	1,481.92	1/4	1,128.25	1/4	781.24	1/4	424.03	1/4	69.34	1/4	1/4	1/4		1/4	1/4
1/2	2,187.43	1/2	1,830.63	1/2	1,474.48	1/2	1,121.08	1/2	773.80	1/2	416.59	1/2	63.16	1/2	1/2	1/2		1/2	1/2
3/4	2,180.00	3/4	1,823.21	3/4	1,467.04	3/4	1,113.91	3/4	766.36	3/4	409.15	3/4	56.97	3/4	3/4	3/4		3/4	3/4
4	2,172.58	4	1,815.80	4	1,459.60	4	1,106.74	4	758.92	4	401.71	4	50.78	4	4	4		4	4
1/4	2,165.15	1/4	1,808.38	1/4	1,452.16	1/4	1,099.56	1/4	751.48	1/4	394.27	1/4	45.85	1/4	1/4	1/4		1/4	1/4
1/2	2,157.73	1/2	1,800.97	1/2	1,444.72	1/2	1,092.39	1/2	744.04	1/2	386.82	1/2	40.93	1/2	1/2	1/2		1/2	1/2
3/4	2,150.30	3/4	1,793.56	3/4	1,437.27	3/4	1,085.22	3/4	736.59	3/4	379.38	3/4	36.00	3/4	3/4	3/4		3/4	3/4
5	2,142.87	5	1,786.14	5	1,429.83	5	1,078.05	5	729.15	5	371.94	5	31.07	5	5	5		5	5
1/4	2,135.43	1/4	1,778.73	1/4	1,422.39	1/4	1,070.89	1/4	721.71	1/4	364.50	1/4	27.40	1/4	1/4	1/4		1/4	1/4
1/2	2,127.99	1/2	1,771.31	1/2	1,414.95	1/2	1,063.73	1/2	714.27	1/2	357.06	1/2	23.73	1/2	1/2	1/2		1/2	1/2
3/4	2,120.55	3/4	1,763.90	3/4	1,407.51	3/4	1,056.57	3/4	706.83	3/4	349.61	3/4	20.07	3/4	3/4	3/4		3/4	3/4
6	2,113.11	6	1,756.48	6	1,400.07	6	1,049.41	6	699.38	6	342.17	6	16.40	6	6	6		6	6
1/4	2,105.67	1/4	1,749.07	1/4	1,392.63	1/4	1,042.25	1/4	691.94	1/4	334.73	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,098.23	1/2	1,741.66	1/2	1,385.19	1/2	1,035.09	1/2	684.50	1/2	327.29	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,090.79	3/4	1,734.24	3/4	1,377.75	3/4	1,027.93	3/4	677.06	3/4	319.85	3/4		3/4	3/4	3/4		3/4	3/4
7	2,083.35	7	1,726.83	7	1,370.31	7	1,020.78	7	669.62	7	312.41	7		7	7	7		7	7
1/4	2,075.91	1/4	1,719.41	1/4	1,362.87	1/4	1,013.62	1/4	662.17	1/4	304.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,068.47	1/2	1,712.00	1/2	1,355.43	1/2	1,006.47	1/2	654.73	1/2	297.52	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,061.02	3/4	1,704.58	3/4	1,347.99	3/4	999.31	3/4	647.29	3/4	290.08	3/4		3/4	3/4	3/4		3/4	3/4
8	2,053.58	8	1,697.17	8	1,340.55	8	992.16	8	639.85	8	282.64	8		8	8	8		8	8
1/4	2,046.14	1/4	1,689.76	1/4	1,333.11	1/4	985.01	1/4	632.41	1/4	275.20	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,038.70	1/2	1,682.34	1/2	1,325.67	1/2	977.85	1/2	624.96	1/2	267.75	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,031.26	3/4	1,674.93	3/4	1,318.22	3/4	970.70	3/4	617.52	3/4	260.31	3/4		3/4	3/4	3/4		3/4	3/4
9	2,023.82	9	1,667.51	9	1,310.78	9	963.55	9	610.08	9	252.87	9		9	9	9		9	9
1/4	2,016.38	1/4	1,660.10	1/4	1,303.34	1/4	956.40	1/4	602.64	1/4	245.43	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,008.94	1/2	1,652.68	1/2	1,295.90	1/2	949.25	1/2	595.20	1/2	237.99	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,001.50	3/4	1,645.27	3/4	1,288.46	3/4	942.10	3/4	587.76	3/4	230.54	3/4		3/4	3/4	3/4		3/4	3/4
10	1,994.06	10	1,637.86	10	1,281.02	10	934.95	10	580.31	10	223.10	10		10	10	10		10	10
1/4	1,986.62	1/4	1,630.44	1/4	1,273.58	1/4	927.80	1/4	572.87	1/4	215.66	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,979.18	1/2	1,623.03	1/2	1,266.14	1/2	920.64	1/2	565.43	1/2	208.22	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,971.74	3/4	1,615.61	3/4	1,258.70	3/4	913.49	3/4	557.99	3/4	200.78	3/4		3/4	3/4	3/4		3/4	3/4
11	1,964.30	11	1,608.20	11	1,251.26	11	906.34	11	550.55	11	193.33	11		11	11	11		11	11
1/4	1,956.85	1/4	1,600.78	1/4	1,243.82	1/4	899.19	1/4	543.10	1/4	185.89	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,949.41	1/2	1,593.37	1/2	1,236.38	1/2	892.04	1/2	535.66	1/2	178.45	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,941.97	3/4	1,585.95	3/4	1,228.94	3/4	884.89	3/4	528.22	3/4	171.01	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "KIRBY 29102"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
							4,384.50		4,142.52		3,895.01		3,635.49		3,364.26		3,010.02		2,652.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,379.85	1/4	4,137.48	1/4	3,889.72	1/4	3,629.96	1/4	3,358.54	1/4	3,002.57	1/4	2,644.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.19	1/2	4,132.45	1/2	3,884.43	1/2	3,624.43	1/2	3,352.81	1/2	2,995.12	1/2	2,637.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,371.02	3/4	4,127.40	3/4	3,879.13	3/4	3,618.87	3/4	3,345.36	3/4	2,987.66	3/4	2,629.97		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,366.84</b>	<b>1</b>	<b>4,122.35</b>	<b>1</b>	<b>3,873.83</b>	<b>1</b>	<b>3,613.32</b>	<b>1</b>	<b>3,337.90</b>	<b>1</b>	<b>2,980.21</b>	<b>1</b>	<b>2,622.52</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.67	1/4	4,117.30	1/4	3,868.53	1/4	3,607.76	1/4	3,330.45	1/4	2,972.76	1/4	2,615.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,358.49	1/2	4,112.25	1/2	3,863.23	1/2	3,602.21	1/2	3,323.00	1/2	2,965.31	1/2	2,607.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,353.11	3/4	4,107.18	3/4	3,857.91	3/4	3,596.63	3/4	3,315.55	3/4	2,957.86	3/4	2,600.17		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,347.73</b>	<b>2</b>	<b>4,102.11</b>	<b>2</b>	<b>3,852.58</b>	<b>2</b>	<b>3,591.06</b>	<b>2</b>	<b>3,308.10</b>	<b>2</b>	<b>2,950.40</b>	<b>2</b>	<b>2,592.71</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,342.35	1/4	4,097.03	1/4	3,847.26	1/4	3,585.49	1/4	3,300.64	1/4	2,942.95	1/4	2,585.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,336.97	1/2	4,091.96	1/2	3,841.94	1/2	3,579.91	1/2	3,293.19	1/2	2,935.50	1/2	2,577.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,331.25	3/4	4,086.87	3/4	3,836.60	3/4	3,574.32	3/4	3,285.74	3/4	2,928.05	3/4	2,570.36		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,325.52</b>	<b>3</b>	<b>4,081.78</b>	<b>3</b>	<b>3,831.25</b>	<b>3</b>	<b>3,568.73</b>	<b>3</b>	<b>3,278.29</b>	<b>3</b>	<b>2,920.60</b>	<b>3</b>	<b>2,562.91</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,319.79	1/4	4,076.68	1/4	3,825.91	1/4	3,563.14	1/4	3,270.84	1/4	2,913.15	1/4	2,555.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,314.07	1/2	4,071.59	1/2	3,820.57	1/2	3,557.55	1/2	3,263.38	1/2	2,905.69	1/2	2,548.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,308.34	3/4	4,066.48	3/4	3,815.20	3/4	3,551.93	3/4	3,255.93	3/4	2,898.24	3/4	2,540.55		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,302.61</b>	<b>4</b>	<b>4,061.36</b>	<b>4</b>	<b>3,809.84</b>	<b>4</b>	<b>3,546.32</b>	<b>4</b>	<b>3,248.48</b>	<b>4</b>	<b>2,890.79</b>	<b>4</b>	<b>2,533.10</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,296.88	1/4	4,056.25	1/4	3,804.48	1/4	3,540.70	1/4	3,241.03	1/4	2,883.34	1/4	2,525.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,291.16	1/2	4,051.13	1/2	3,799.11	1/2	3,535.09	1/2	3,233.58	1/2	2,875.89	1/2	2,518.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,286.27	3/4	4,046.00	3/4	3,793.73	3/4	3,529.45	3/4	3,226.13	3/4	2,868.43	3/4	2,510.74		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,281.38</b>	<b>5</b>	<b>4,040.86</b>	<b>5</b>	<b>3,788.34</b>	<b>5</b>	<b>3,523.82</b>	<b>5</b>	<b>3,218.67</b>	<b>5</b>	<b>2,860.98</b>	<b>5</b>	<b>2,503.29</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,276.50	1/4	4,035.73	1/4	3,782.96	1/4	3,518.18	1/4	3,211.22	1/4	2,853.53	1/4	2,495.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,271.61	1/2	4,030.60	1/2	3,777.57	1/2	3,512.55	1/2	3,203.77	1/2	2,846.08	1/2	2,488.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,266.70	3/4	4,025.44	3/4	3,772.16	3/4	3,506.89	3/4	3,196.32	3/4	2,838.63	3/4	2,480.94		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,261.80</b>	<b>6</b>	<b>4,020.28</b>	<b>6</b>	<b>3,766.76</b>	<b>6</b>	<b>3,501.24</b>	<b>6</b>	<b>3,188.87</b>	<b>6</b>	<b>2,831.17</b>	<b>6</b>	<b>2,473.48</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,256.89	1/4	4,015.12	1/4	3,761.35	1/4	3,495.58	1/4	3,181.41	1/4	2,823.72	1/4	2,466.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,251.99	1/2	4,009.97	1/2	3,755.95	1/2	3,489.92	1/2	3,173.96	1/2	2,816.27	1/2	2,458.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,247.06	3/4	4,004.79	3/4	3,750.52	3/4	3,484.25	3/4	3,166.51	3/4	2,808.82	3/4	2,451.13		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,242.13</b>	<b>7</b>	<b>3,999.61</b>	<b>7</b>	<b>3,745.09</b>	<b>7</b>	<b>3,478.57</b>	<b>7</b>	<b>3,159.06</b>	<b>7</b>	<b>2,801.37</b>	<b>7</b>	<b>2,443.68</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,237.20	1/4	3,994.44	1/4	3,739.66	1/4	3,472.89	1/4	3,151.61	1/4	2,793.91	1/4	2,436.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,232.27	1/2	3,989.26	1/2	3,734.24	1/2	3,467.22	1/2	3,144.15	1/2	2,786.46	1/2	2,428.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,227.32	3/4	3,984.06	3/4	3,728.79	3/4	3,461.52	3/4	3,136.70	3/4	2,779.01	3/4	2,421.32		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,222.38</b>	<b>8</b>	<b>3,978.86</b>	<b>8</b>	<b>3,723.34</b>	<b>8</b>	<b>3,455.82</b>	<b>8</b>	<b>3,129.25</b>	<b>8</b>	<b>2,771.56</b>	<b>8</b>	<b>2,413.87</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,217.43	1/4	3,973.66	1/4	3,717.90	1/4	3,450.12	1/4	3,121.80	1/4	2,764.11	1/4	2,406.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,212.48	1/2	3,968.46	1/2	3,712.45	1/2	3,444.42	1/2	3,114.35	1/2	2,756.66	1/2	2,398.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,207.51	3/4	3,963.24	3/4	3,706.98	3/4	3,438.70	3/4	3,106.89	3/4	2,749.20	3/4	2,391.51		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,202.54</b>	<b>9</b>	<b>3,958.03</b>	<b>9</b>	<b>3,701.51</b>	<b>9</b>	<b>3,432.99</b>	<b>9</b>	<b>3,099.44</b>	<b>9</b>	<b>2,741.75</b>	<b>9</b>	<b>2,384.06</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197.57	1/4	3,952.81	1/4	3,696.04	1/4	3,427.27	1/4	3,091.99	1/4	2,734.30	1/4	2,376.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,192.59	1/2	3,947.59	1/2	3,690.57	1/2	3,421.55	1/2	3,084.54	1/2	2,726.85	1/2	2,369.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,187.60	3/4	3,942.35	3/4	3,685.08	3/4	3,415.82	3/4	3,077.09	3/4	2,719.40	3/4	2,361.70		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,182.62</b>	<b>10</b>	<b>3,937.10</b>	<b>10</b>	<b>3,679.59</b>	<b>10</b>	<b>3,410.09</b>	<b>10</b>	<b>3,069.64</b>	<b>10</b>	<b>2,711.94</b>	<b>10</b>	<b>2,354.25</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,177.63	1/4	3,931.86	1/4	3,674.10	1/4	3,404.36	1/4	3,062.18	1/4	2,704.49	1/4	2,346.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,172.64	1/2	3,926.62	1/2	3,668.61	1/2	3,398.64	1/2	3,054.73	1/2	2,697.04	1/2	2,339.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,167.62	3/4	3,921.36	3/4	3,663.10	3/4	3,392.91	3/4	3,047.28	3/4	2,689.59	3/4	2,331.90		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,162.61</b>	<b>11</b>	<b>3,916.10</b>	<b>11</b>	<b>3,657.58</b>	<b>11</b>	<b>3,387.18</b>	<b>11</b>	<b>3,039.83</b>	<b>11</b>	<b>2,682.14</b>	<b>11</b>	<b>2,324.45</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,157.59	1/4	3,910.84	1/4	3,652.07	1/4	3,381.45	1/4	3,032.38	1/4	2,674.68	1/4	2,316.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,393.82	1/2	4,152.58	1/2	3,905.58	1/2	3,646.56	1/2	3,375.72	1/2	3,024.92	1/2	2,667.23	1/2	2,309.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,389.16	3/4	4,147.55	3/4	3,900.29	3/4	3,641.02	3/4	3,369.99	3/4	3,017.47	3/4	2,659.78	3/4	2,302.09

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 29102"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,294.64	0	1,936.95	0	1,579.26	0	1,221.56	0	864.14	0	506.57	0	148.89	0		0		0	
1/4	2,287.19	1/4	1,929.49	1/4	1,571.80	1/4	1,214.11	1/4	856.70	1/4	499.12	1/4	141.44	1/4	1/4		1/4		1/4
1/2	2,279.73	1/2	1,922.04	1/2	1,564.35	1/2	1,206.66	1/2	849.26	1/2	491.67	1/2	133.99	1/2	1/2		1/2		1/2
3/4	2,272.28	3/4	1,914.59	3/4	1,556.90	3/4	1,199.21	3/4	841.82	3/4	484.22	3/4	126.54	3/4	3/4		3/4		3/4
1	2,264.83	1	1,907.14	1	1,549.45	1	1,191.76	1	834.38	1	476.77	1	119.09	1	1		1		1
1/4	2,257.38	1/4	1,899.69	1/4	1,542.00	1/4	1,184.30	1/4	826.94	1/4	469.31	1/4	111.63	1/4	1/4		1/4		1/4
1/2	2,249.93	1/2	1,892.24	1/2	1,534.54	1/2	1,176.85	1/2	819.50	1/2	461.86	1/2	104.18	1/2	1/2		1/2		1/2
3/4	2,242.47	3/4	1,884.78	3/4	1,527.09	3/4	1,169.40	3/4	812.06	3/4	454.41	3/4	97.05	3/4	3/4		3/4		3/4
2	2,235.02	2	1,877.33	2	1,519.64	2	1,161.95	2	804.62	2	446.96	2	89.91	2	2		2		2
1/4	2,227.57	1/4	1,869.88	1/4	1,512.19	1/4	1,154.50	1/4	797.18	1/4	439.51	1/4	82.77	1/4	1/4		1/4		1/4
1/2	2,220.12	1/2	1,862.43	1/2	1,504.74	1/2	1,147.04	1/2	789.74	1/2	432.06	1/2	75.64	1/2	1/2		1/2		1/2
3/4	2,212.67	3/4	1,854.98	3/4	1,497.28	3/4	1,139.59	3/4	782.29	3/4	424.60	3/4	69.44	3/4	3/4		3/4		3/4
3	2,205.21	3	1,847.52	3	1,489.83	3	1,132.14	3	774.83	3	417.15	3	63.24	3	3		3		3
1/4	2,197.76	1/4	1,840.07	1/4	1,482.38	1/4	1,124.69	1/4	767.38	1/4	409.70	1/4	57.05	1/4	1/4		1/4		1/4
1/2	2,190.31	1/2	1,832.62	1/2	1,474.93	1/2	1,117.24	1/2	759.93	1/2	402.25	1/2	50.85	1/2	1/2		1/2		1/2
3/4	2,182.86	3/4	1,825.17	3/4	1,467.48	3/4	1,109.79	3/4	752.48	3/4	394.80	3/4	45.91	3/4	3/4		3/4		3/4
4	2,175.41	4	1,817.72	4	1,460.02	4	1,102.33	4	745.03	4	387.35	4	40.97	4	4		4		4
1/4	2,167.96	1/4	1,810.26	1/4	1,452.57	1/4	1,094.88	1/4	737.58	1/4	379.89	1/4	36.03	1/4	1/4		1/4		1/4
1/2	2,160.50	1/2	1,802.81	1/2	1,445.12	1/2	1,087.43	1/2	730.12	1/2	372.44	1/2	31.09	1/2	1/2		1/2		1/2
3/4	2,153.05	3/4	1,795.36	3/4	1,437.67	3/4	1,079.98	3/4	722.67	3/4	364.99	3/4	27.42	3/4	3/4		3/4		3/4
5	2,145.60	5	1,787.91	5	1,430.22	5	1,072.53	5	715.22	5	357.54	5	23.74	5	5		5		5
1/4	2,138.15	1/4	1,780.46	1/4	1,422.77	1/4	1,065.07	1/4	707.77	1/4	350.09	1/4	20.07	1/4	1/4		1/4		1/4
1/2	2,130.70	1/2	1,773.00	1/2	1,415.31	1/2	1,057.62	1/2	700.32	1/2	342.64	1/2	16.40	1/2	1/2		1/2		1/2
3/4	2,123.24	3/4	1,765.55	3/4	1,407.86	3/4	1,050.17	3/4	692.87	3/4	335.18	3/4		3/4	3/4		3/4		3/4
6	2,115.79	6	1,758.10	6	1,400.41	6	1,042.72	6	685.41	6	327.73	6		6	6		6		6
1/4	2,108.34	1/4	1,750.65	1/4	1,392.96	1/4	1,035.27	1/4	677.96	1/4	320.28	1/4		1/4	1/4		1/4		1/4
1/2	2,100.89	1/2	1,743.20	1/2	1,385.51	1/2	1,027.81	1/2	670.51	1/2	312.83	1/2		1/2	1/2		1/2		1/2
3/4	2,093.44	3/4	1,735.75	3/4	1,378.05	3/4	1,020.37	3/4	663.06	3/4	305.38	3/4		3/4	3/4		3/4		3/4
7	2,085.98	7	1,728.29	7	1,370.60	7	1,012.93	7	655.61	7	297.93	7		7	7		7		7
1/4	2,078.53	1/4	1,720.84	1/4	1,363.15	1/4	1,005.49	1/4	648.16	1/4	290.47	1/4		1/4	1/4		1/4		1/4
1/2	2,071.08	1/2	1,713.39	1/2	1,355.70	1/2	998.05	1/2	640.70	1/2	283.02	1/2		1/2	1/2		1/2		1/2
3/4	2,063.63	3/4	1,705.94	3/4	1,348.25	3/4	990.62	3/4	633.25	3/4	275.57	3/4		3/4	3/4		3/4		3/4
8	2,056.18	8	1,698.49	8	1,340.79	8	983.18	8	625.80	8	268.12	8		8	8		8		8
1/4	2,048.72	1/4	1,691.03	1/4	1,333.34	1/4	975.74	1/4	618.35	1/4	260.67	1/4		1/4	1/4		1/4		1/4
1/2	2,041.27	1/2	1,683.58	1/2	1,325.89	1/2	968.30	1/2	610.90	1/2	253.22	1/2		1/2	1/2		1/2		1/2
3/4	2,033.82	3/4	1,676.13	3/4	1,318.44	3/4	960.86	3/4	603.45	3/4	245.76	3/4		3/4	3/4		3/4		3/4
9	2,026.37	9	1,668.68	9	1,310.99	9	953.42	9	595.99	9	238.31	9		9	9		9		9
1/4	2,018.92	1/4	1,661.23	1/4	1,303.53	1/4	945.98	1/4	588.54	1/4	230.86	1/4		1/4	1/4		1/4		1/4
1/2	2,011.47	1/2	1,653.77	1/2	1,296.08	1/2	938.54	1/2	581.09	1/2	223.41	1/2		1/2	1/2		1/2		1/2
3/4	2,004.01	3/4	1,646.32	3/4	1,288.63	3/4	931.10	3/4	573.64	3/4	215.96	3/4		3/4	3/4		3/4		3/4
10	1,996.56	10	1,638.87	10	1,281.18	10	923.66	10	566.19	10	208.51	10		10	10		10		10
1/4	1,989.11	1/4	1,631.42	1/4	1,273.73	1/4	916.22	1/4	558.74	1/4	201.05	1/4		1/4	1/4		1/4		1/4
1/2	1,981.66	1/2	1,623.97	1/2	1,266.28	1/2	908.78	1/2	551.28	1/2	193.60	1/2		1/2	1/2		1/2		1/2
3/4	1,974.21	3/4	1,616.51	3/4	1,258.82	3/4	901.34	3/4	543.83	3/4	186.15	3/4		3/4	3/4		3/4		3/4
11	1,966.75	11	1,609.06	11	1,251.37	11	893.90	11	536.38	11	178.70	11		11	11		11		11
1/4	1,959.30	1/4	1,601.61	1/4	1,243.92	1/4	886.46	1/4	528.93	1/4	171.25	1/4		1/4	1/4		1/4		1/4
1/2	1,951.85	1/2	1,594.16	1/2	1,236.47	1/2	879.02	1/2	521.48	1/2	163.79	1/2		1/2	1/2		1/2		1/2
3/4	1,944.40	3/4	1,586.71	3/4	1,229.02	3/4	871.58	3/4	514.02	3/4	156.34	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/06/2013 CL - SW  
CALCULATED: 02/07/2013 CL  
PRINTED: 02/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT  
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