



# BARGE "KIRBY 29103"

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

(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.

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<http://www.pmacorp.net>



# BARGE "KIRBY 29103"

## 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	IN	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "KIRBY 29103"

## 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	2,426.51	0	2,048.55	0	1,670.59	0	1,293.98	0	916.84	0	538.92	0	189.42	0		0		0	
1/4	2,418.63	1/4	2,040.68	1/4	1,662.72	1/4	1,286.15	1/4	908.97	1/4	531.05	1/4	182.79	1/4	1/4		1/4		1/4
1/2	2,410.76	1/2	2,032.80	1/2	1,654.85	1/2	1,278.33	1/2	901.10	1/2	523.19	1/2	176.16	1/2	1/2		1/2		1/2
3/4	2,402.88	3/4	2,024.93	3/4	1,646.97	3/4	1,270.50	3/4	893.22	3/4	515.37	3/4	169.65	3/4	3/4		3/4		3/4
1	2,395.01	1	2,017.05	1	1,639.10	1	1,262.68	1	885.35	1	507.56	1	163.13	1	1		1		1
1/4	2,387.14	1/4	2,009.18	1/4	1,631.22	1/4	1,254.85	1/4	877.47	1/4	499.74	1/4	156.61	1/4	1/4		1/4		1/4
1/2	2,379.26	1/2	2,001.31	1/2	1,623.35	1/2	1,247.03	1/2	869.60	1/2	491.93	1/2	150.09	1/2	1/2		1/2		1/2
3/4	2,371.39	3/4	1,993.43	3/4	1,615.47	3/4	1,239.20	3/4	861.73	3/4	484.20	3/4	143.69	3/4	3/4		3/4		3/4
2	2,363.51	2	1,985.56	2	1,607.60	2	1,231.38	2	853.85	2	476.48	2	137.29	2	2		2		2
1/4	2,355.64	1/4	1,977.68	1/4	1,599.73	1/4	1,223.56	1/4	845.98	1/4	468.76	1/4	130.89	1/4	1/4		1/4		1/4
1/2	2,347.77	1/2	1,969.81	1/2	1,591.85	1/2	1,215.73	1/2	838.11	1/2	461.03	1/2	124.48	1/2	1/2		1/2		1/2
3/4	2,339.89	3/4	1,961.94	3/4	1,583.98	3/4	1,207.91	3/4	830.23	3/4	453.42	3/4	118.20	3/4	3/4		3/4		3/4
3	2,332.02	3	1,954.06	3	1,576.10	3	1,200.08	3	822.36	3	445.81	3	111.92	3	3		3		3
1/4	2,324.14	1/4	1,946.19	1/4	1,568.23	1/4	1,192.26	1/4	814.48	1/4	438.19	1/4	105.64	1/4	1/4		1/4		1/4
1/2	2,316.27	1/2	1,938.31	1/2	1,560.36	1/2	1,184.43	1/2	806.61	1/2	430.58	1/2	99.36	1/2	1/2		1/2		1/2
3/4	2,308.40	3/4	1,930.44	3/4	1,552.49	3/4	1,176.59	3/4	798.74	3/4	423.07	3/4	93.21	3/4	3/4		3/4		3/4
4	2,300.52	4	1,922.56	4	1,544.63	4	1,168.75	4	790.86	4	415.57	4	87.06	4	4		4		4
1/4	2,292.65	1/4	1,914.69	1/4	1,536.77	1/4	1,160.90	1/4	782.99	1/4	408.06	1/4	80.91	1/4	1/4		1/4		1/4
1/2	2,284.77	1/2	1,906.82	1/2	1,528.90	1/2	1,153.06	1/2	775.11	1/2	400.56	1/2	74.75	1/2	1/2		1/2		1/2
3/4	2,276.90	3/4	1,898.94	3/4	1,521.06	3/4	1,145.19	3/4	767.24	3/4	393.16	3/4	68.74	3/4	3/4		3/4		3/4
5	2,269.03	5	1,891.07	5	1,513.21	5	1,137.31	5	759.37	5	385.77	5	62.73	5	5		5		5
1/4	2,261.15	1/4	1,883.19	1/4	1,505.37	1/4	1,129.44	1/4	751.49	1/4	378.37	1/4	56.72	1/4	1/4		1/4		1/4
1/2	2,253.28	1/2	1,875.32	1/2	1,497.53	1/2	1,121.57	1/2	743.62	1/2	370.98	1/2	50.71	1/2	1/2		1/2		1/2
3/4	2,245.40	3/4	1,867.45	3/4	1,489.69	3/4	1,113.69	3/4	735.74	3/4	363.69	3/4	45.30	3/4	3/4		3/4		3/4
6	2,237.53	6	1,859.57	6	1,481.85	6	1,105.82	6	727.87	6	356.41	6	39.88	6	6		6		6
1/4	2,229.65	1/4	1,851.70	1/4	1,474.01	1/4	1,097.94	1/4	720.00	1/4	349.12	1/4	34.46	1/4	1/4		1/4		1/4
1/2	2,221.78	1/2	1,843.82	1/2	1,466.17	1/2	1,090.07	1/2	712.12	1/2	341.83	1/2	29.04	1/2	1/2		1/2		1/2
3/4	2,213.91	3/4	1,835.95	3/4	1,458.33	3/4	1,082.20	3/4	704.25	3/4	334.66	3/4	25.08	3/4	3/4		3/4		3/4
7	2,206.03	7	1,828.08	7	1,450.50	7	1,074.32	7	696.38	7	327.48	7	21.12	7	7		7		7
1/4	2,198.16	1/4	1,820.20	1/4	1,442.67	1/4	1,066.45	1/4	688.50	1/4	320.30	1/4	17.15	1/4	1/4		1/4		1/4
1/2	2,190.28	1/2	1,812.33	1/2	1,434.84	1/2	1,058.57	1/2	680.63	1/2	313.13	1/2	13.19	1/2	1/2		1/2		1/2
3/4	2,182.41	3/4	1,804.45	3/4	1,427.01	3/4	1,050.70	3/4	672.75	3/4	306.06	3/4		3/4	3/4		3/4		3/4
8	2,174.54	8	1,796.58	8	1,419.18	8	1,042.83	8	664.88	8	298.99	8		8	8		8		8
1/4	2,166.66	1/4	1,788.70	1/4	1,411.35	1/4	1,034.95	1/4	657.01	1/4	291.93	1/4		1/4	1/4		1/4		1/4
1/2	2,158.79	1/2	1,780.83	1/2	1,403.52	1/2	1,027.08	1/2	649.13	1/2	284.86	1/2		1/2	1/2		1/2		1/2
3/4	2,150.91	3/4	1,772.96	3/4	1,395.70	3/4	1,019.20	3/4	641.26	3/4	277.90	3/4		3/4	3/4		3/4		3/4
9	2,143.04	9	1,765.08	9	1,387.87	9	1,011.33	9	633.38	9	270.94	9		9	9		9		9
1/4	2,135.17	1/4	1,757.21	1/4	1,380.05	1/4	1,003.46	1/4	625.51	1/4	263.99	1/4		1/4	1/4		1/4		1/4
1/2	2,127.29	1/2	1,749.33	1/2	1,372.22	1/2	995.58	1/2	617.64	1/2	257.03	1/2		1/2	1/2		1/2		1/2
3/4	2,119.42	3/4	1,741.46	3/4	1,364.40	3/4	987.71	3/4	609.76	3/4	250.18	3/4		3/4	3/4		3/4		3/4
10	2,111.54	10	1,733.59	10	1,356.58	10	979.84	10	601.89	10	243.33	10		10	10		10		10
1/4	2,103.67	1/4	1,725.71	1/4	1,348.75	1/4	971.96	1/4	594.01	1/4	236.48	1/4		1/4	1/4		1/4		1/4
1/2	2,095.79	1/2	1,717.84	1/2	1,340.93	1/2	964.09	1/2	586.14	1/2	229.64	1/2		1/2	1/2		1/2		1/2
3/4	2,087.92	3/4	1,709.96	3/4	1,333.10	3/4	956.21	3/4	578.27	3/4	222.90	3/4		3/4	3/4		3/4		3/4
11	2,080.05	11	1,702.09	11	1,325.28	11	948.34	11	570.39	11	216.16	11		11	11		11		11
1/4	2,072.17	1/4	1,694.22	1/4	1,317.45	1/4	940.47	1/4	562.52	1/4	209.42	1/4		1/4	1/4		1/4		1/4
1/2	2,064.30	1/2	1,686.34	1/2	1,309.63	1/2	932.59	1/2	554.64	1/2	202.68	1/2		1/2	1/2		1/2		1/2
3/4	2,056.42	3/4	1,678.47	3/4	1,301.80	3/4	924.72	3/4	546.78	3/4	196.05	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  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29103"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,959.43		4,626.93		4,287.81		3,932.18		3,560.60		3,184.20		2,806.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.05	1/4	4,620.04	1/4	4,280.57	1/4	3,924.60	1/4	3,552.76	1/4	3,176.32	1/4	2,798.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,948.67	1/2	4,613.15	1/2	4,273.33	1/2	3,917.02	1/2	3,544.92	1/2	3,168.45	1/2	2,790.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,942.00	3/4	4,606.23	3/4	4,266.06	3/4	3,909.41	3/4	3,537.08	3/4	3,160.57	3/4	2,782.62		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,935.32</b>	<b>1</b>	<b>4,599.31</b>	<b>1</b>	<b>4,258.80</b>	<b>1</b>	<b>3,901.79</b>	<b>1</b>	<b>3,529.24</b>	<b>1</b>	<b>3,152.70</b>	<b>1</b>	<b>2,774.74</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,928.64	1/4	4,592.39	1/4	4,251.53	1/4	3,894.18	1/4	3,521.41	1/4	3,144.83	1/4	2,766.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,921.97	1/2	4,585.47	1/2	4,244.27	1/2	3,886.57	1/2	3,513.57	1/2	3,136.95	1/2	2,759.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,914.36	3/4	4,578.52	3/4	4,236.98	3/4	3,878.93	3/4	3,505.73	3/4	3,129.08	3/4	2,751.12		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,906.75</b>	<b>2</b>	<b>4,571.57</b>	<b>2</b>	<b>4,229.68</b>	<b>2</b>	<b>3,871.29</b>	<b>2</b>	<b>3,497.89</b>	<b>2</b>	<b>3,121.20</b>	<b>2</b>	<b>2,743.25</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,899.14	1/4	4,564.62	1/4	4,222.39	1/4	3,863.66	1/4	3,490.05	1/4	3,113.33	1/4	2,735.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.53	1/2	4,557.67	1/2	4,215.10	1/2	3,856.02	1/2	3,482.21	1/2	3,105.46	1/2	2,727.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.69	3/4	4,550.69	3/4	4,207.78	3/4	3,848.36	3/4	3,474.37	3/4	3,097.58	3/4	2,719.63		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,875.85</b>	<b>3</b>	<b>4,543.72</b>	<b>3</b>	<b>4,200.46</b>	<b>3</b>	<b>3,840.69</b>	<b>3</b>	<b>3,466.53</b>	<b>3</b>	<b>3,089.71</b>	<b>3</b>	<b>2,711.75</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,868.01	1/4	4,536.74	1/4	4,193.13	1/4	3,833.03	1/4	3,458.69	1/4	3,081.83	1/4	2,703.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,860.17	1/2	4,529.76	1/2	4,185.81	1/2	3,825.36	1/2	3,450.85	1/2	3,073.96	1/2	2,696.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,852.77	3/4	4,522.75	3/4	4,178.46	3/4	3,817.67	3/4	3,443.01	3/4	3,066.09	3/4	2,688.13		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,845.36</b>	<b>4</b>	<b>4,515.75</b>	<b>4</b>	<b>4,171.11</b>	<b>4</b>	<b>3,809.97</b>	<b>4</b>	<b>3,435.17</b>	<b>4</b>	<b>3,058.21</b>	<b>4</b>	<b>2,680.25</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,837.96	1/4	4,508.74	1/4	4,163.76	1/4	3,802.28	1/4	3,427.33	1/4	3,050.34	1/4	2,672.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,830.55	1/2	4,501.73	1/2	4,156.41	1/2	3,794.58	1/2	3,419.50	1/2	3,042.46	1/2	2,664.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,823.86	3/4	4,494.70	3/4	4,149.03	3/4	3,786.86	3/4	3,411.66	3/4	3,034.59	3/4	2,656.63		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,817.16</b>	<b>5</b>	<b>4,487.66</b>	<b>5</b>	<b>4,141.65</b>	<b>5</b>	<b>3,779.14</b>	<b>5</b>	<b>3,403.82</b>	<b>5</b>	<b>3,026.72</b>	<b>5</b>	<b>2,648.76</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,810.47	1/4	4,480.63	1/4	4,134.27	1/4	3,771.41	1/4	3,395.98	1/4	3,018.84	1/4	2,640.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,803.78	1/2	4,473.59	1/2	4,126.89	1/2	3,763.69	1/2	3,388.14	1/2	3,010.97	1/2	2,633.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,797.06	3/4	4,466.52	3/4	4,119.48	3/4	3,755.94	3/4	3,380.30	3/4	3,003.09	3/4	2,625.14		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,790.34</b>	<b>6</b>	<b>4,459.46</b>	<b>6</b>	<b>4,112.08</b>	<b>6</b>	<b>3,748.19</b>	<b>6</b>	<b>3,372.46</b>	<b>6</b>	<b>2,995.22</b>	<b>6</b>	<b>2,617.26</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.62	1/4	4,452.39	1/4	4,104.67	1/4	3,740.43	1/4	3,364.62	1/4	2,987.34	1/4	2,609.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,776.89	1/2	4,445.33	1/2	4,097.26	1/2	3,732.68	1/2	3,356.78	1/2	2,979.47	1/2	2,601.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,770.14	3/4	4,438.24	3/4	4,089.82	3/4	3,724.90	3/4	3,348.94	3/4	2,971.60	3/4	2,593.64		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>4,763.39</b>	<b>7</b>	<b>4,431.14</b>	<b>7</b>	<b>4,082.38</b>	<b>7</b>	<b>3,717.12</b>	<b>7</b>	<b>3,341.10</b>	<b>7</b>	<b>2,963.72</b>	<b>7</b>	<b>2,585.77</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,756.64	1/4	4,424.05	1/4	4,074.95	1/4	3,709.34	1/4	3,333.26	1/4	2,955.85	1/4	2,577.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,749.89	1/2	4,416.96	1/2	4,067.51	1/2	3,701.56	1/2	3,325.43	1/2	2,947.97	1/2	2,570.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,743.11	3/4	4,409.83	3/4	4,060.04	3/4	3,693.75	3/4	3,317.59	3/4	2,940.10	3/4	2,562.14		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>4,736.33</b>	<b>8</b>	<b>4,402.71</b>	<b>8</b>	<b>4,052.58</b>	<b>8</b>	<b>3,685.94</b>	<b>8</b>	<b>3,309.75</b>	<b>8</b>	<b>2,932.23</b>	<b>8</b>	<b>2,554.27</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,729.55	1/4	4,395.58	1/4	4,045.11	1/4	3,678.13	1/4	3,301.91	1/4	2,924.35	1/4	2,546.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,722.77	1/2	4,388.46	1/2	4,037.65	1/2	3,670.32	1/2	3,294.07	1/2	2,916.48	1/2	2,538.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,715.96	3/4	4,381.31	3/4	4,030.15	3/4	3,662.49	3/4	3,286.23	3/4	2,908.60	3/4	2,530.65		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>4,709.15</b>	<b>9</b>	<b>4,374.16</b>	<b>9</b>	<b>4,022.65</b>	<b>9</b>	<b>3,654.66</b>	<b>9</b>	<b>3,278.39</b>	<b>9</b>	<b>2,900.73</b>	<b>9</b>	<b>2,522.77</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,702.34	1/4	4,367.01	1/4	4,015.16	1/4	3,646.82	1/4	3,270.55	1/4	2,892.86	1/4	2,514.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,695.54	1/2	4,359.85	1/2	4,007.66	1/2	3,638.99	1/2	3,262.71	1/2	2,884.98	1/2	2,507.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,688.70	3/4	4,352.67	3/4	4,000.14	3/4	3,631.15	3/4	3,254.87	3/4	2,877.11	3/4	2,499.15		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>4,681.86</b>	<b>10</b>	<b>4,345.49</b>	<b>10</b>	<b>3,992.61</b>	<b>10</b>	<b>3,623.31</b>	<b>10</b>	<b>3,247.03</b>	<b>10</b>	<b>2,869.23</b>	<b>10</b>	<b>2,491.28</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,675.02	1/4	4,338.31	1/4	3,985.09	1/4	3,615.48	1/4	3,239.19	1/4	2,861.36	1/4	2,483.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,668.19	1/2	4,331.13	1/2	3,977.57	1/2	3,607.64	1/2	3,231.35	1/2	2,853.48	1/2	2,475.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,661.32	3/4	4,323.92	3/4	3,970.01	3/4	3,599.80	3/4	3,223.50	3/4	2,845.61	3/4	2,467.65		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>4,654.45</b>	<b>11</b>	<b>4,316.71</b>	<b>11</b>	<b>3,962.46</b>	<b>11</b>	<b>3,591.96</b>	<b>11</b>	<b>3,215.65</b>	<b>11</b>	<b>2,837.74</b>	<b>11</b>	<b>2,459.78</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,647.58	1/4	4,309.50	1/4	3,954.90	1/4	3,584.12	1/4	3,207.80	1/4	2,829.86	1/4	2,451.91		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,640.71	1/2	4,302.29	1/2	3,947.35	1/2	3,576.28	1/2	3,199.95	1/2	2,821.99	1/2	2,444.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,633.82	3/4	4,295.05	3/4	3,939.77	3/4	3,568.44	3/4	3,192.07	3/4	2,814.11	3/4	2,436.16		

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'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29103"

## 1 STBD 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	2,428.28	0	2,050.33	0	1,672.37	0	1,294.41	0	916.74	0	538.92	0	189.42	0		0		0	
1/4	2,420.41	1/4	2,042.45	1/4	1,664.50	1/4	1,286.54	1/4	908.88	1/4	531.05	1/4	182.79	1/4		1/4		1/4	
1/2	2,412.54	1/2	2,034.58	1/2	1,656.62	1/2	1,278.66	1/2	901.02	1/2	523.19	1/2	176.16	1/2		1/2		1/2	
3/4	2,404.66	3/4	2,026.70	3/4	1,648.75	3/4	1,270.79	3/4	893.16	3/4	515.37	3/4	169.65	3/4		3/4		3/4	
1	2,396.79	1	2,018.83	1	1,640.87	1	1,262.92	1	885.29	1	507.56	1	163.13	1		1		1	
1/4	2,388.91	1/4	2,010.96	1/4	1,633.00	1/4	1,255.04	1/4	877.43	1/4	499.74	1/4	156.61	1/4		1/4		1/4	
1/2	2,381.04	1/2	2,003.08	1/2	1,625.13	1/2	1,247.17	1/2	869.57	1/2	491.93	1/2	150.09	1/2		1/2		1/2	
3/4	2,373.16	3/4	1,995.21	3/4	1,617.25	3/4	1,239.29	3/4	861.70	3/4	484.20	3/4	143.69	3/4		3/4		3/4	
2	2,365.29	2	1,987.33	2	1,609.38	2	1,231.42	2	853.84	2	476.48	2	137.29	2		2		2	
1/4	2,357.42	1/4	1,979.46	1/4	1,601.50	1/4	1,223.55	1/4	845.97	1/4	468.76	1/4	130.89	1/4		1/4		1/4	
1/2	2,349.54	1/2	1,971.59	1/2	1,593.63	1/2	1,215.67	1/2	838.11	1/2	461.03	1/2	124.48	1/2		1/2		1/2	
3/4	2,341.67	3/4	1,963.71	3/4	1,585.75	3/4	1,207.80	3/4	830.23	3/4	453.42	3/4	118.20	3/4		3/4		3/4	
3	2,333.79	3	1,955.84	3	1,577.88	3	1,199.92	3	822.36	3	445.81	3	111.92	3		3		3	
1/4	2,325.92	1/4	1,947.96	1/4	1,570.01	1/4	1,192.05	1/4	814.48	1/4	438.19	1/4	105.64	1/4		1/4		1/4	
1/2	2,318.05	1/2	1,940.09	1/2	1,562.13	1/2	1,184.18	1/2	806.61	1/2	430.58	1/2	99.36	1/2		1/2		1/2	
3/4	2,310.17	3/4	1,932.22	3/4	1,554.26	3/4	1,176.30	3/4	798.74	3/4	423.07	3/4	93.21	3/4		3/4		3/4	
4	2,302.30	4	1,924.34	4	1,546.38	4	1,168.43	4	790.86	4	415.57	4	87.06	4		4		4	
1/4	2,294.42	1/4	1,916.47	1/4	1,538.51	1/4	1,160.55	1/4	782.99	1/4	408.06	1/4	80.91	1/4		1/4		1/4	
1/2	2,286.55	1/2	1,908.59	1/2	1,530.64	1/2	1,152.68	1/2	775.11	1/2	400.56	1/2	74.75	1/2		1/2		1/2	
3/4	2,278.68	3/4	1,900.72	3/4	1,522.76	3/4	1,144.81	3/4	767.24	3/4	393.16	3/4	68.74	3/4		3/4		3/4	
5	2,270.80	5	1,892.84	5	1,514.89	5	1,136.93	5	759.37	5	385.77	5	62.73	5		5		5	
1/4	2,262.93	1/4	1,884.97	1/4	1,507.01	1/4	1,129.06	1/4	751.49	1/4	378.37	1/4	56.72	1/4		1/4		1/4	
1/2	2,255.05	1/2	1,877.10	1/2	1,499.14	1/2	1,121.18	1/2	743.62	1/2	370.98	1/2	50.71	1/2		1/2		1/2	
3/4	2,247.18	3/4	1,869.22	3/4	1,491.27	3/4	1,113.31	3/4	735.74	3/4	363.69	3/4	45.30	3/4		3/4		3/4	
6	2,239.31	6	1,861.35	6	1,483.39	6	1,105.44	6	727.87	6	356.41	6	39.88	6		6		6	
1/4	2,231.43	1/4	1,853.47	1/4	1,475.52	1/4	1,097.58	1/4	720.00	1/4	349.12	1/4	34.46	1/4		1/4		1/4	
1/2	2,223.56	1/2	1,845.60	1/2	1,467.64	1/2	1,089.71	1/2	712.12	1/2	341.83	1/2	29.04	1/2		1/2		1/2	
3/4	2,215.68	3/4	1,837.73	3/4	1,459.77	3/4	1,081.84	3/4	704.25	3/4	334.66	3/4	25.08	3/4		3/4		3/4	
7	2,207.81	7	1,829.85	7	1,451.90	7	1,073.98	7	696.38	7	327.48	7	21.12	7		7		7	
1/4	2,199.93	1/4	1,821.98	1/4	1,444.02	1/4	1,066.12	1/4	688.50	1/4	320.30	1/4	17.15	1/4		1/4		1/4	
1/2	2,192.06	1/2	1,814.10	1/2	1,436.15	1/2	1,058.26	1/2	680.63	1/2	313.13	1/2	13.19	1/2		1/2		1/2	
3/4	2,184.19	3/4	1,806.23	3/4	1,428.27	3/4	1,050.40	3/4	672.75	3/4	306.06	3/4		3/4		3/4		3/4	
8	2,176.31	8	1,798.36	8	1,420.40	8	1,042.53	8	664.88	8	298.99	8		8		8		8	
1/4	2,168.44	1/4	1,790.48	1/4	1,412.52	1/4	1,034.67	1/4	657.01	1/4	291.93	1/4		1/4		1/4		1/4	
1/2	2,160.56	1/2	1,782.61	1/2	1,404.65	1/2	1,026.81	1/2	649.13	1/2	284.86	1/2		1/2		1/2		1/2	
3/4	2,152.69	3/4	1,774.73	3/4	1,396.78	3/4	1,018.95	3/4	641.26	3/4	277.90	3/4		3/4		3/4		3/4	
9	2,144.82	9	1,766.86	9	1,388.90	9	1,011.09	9	633.38	9	270.94	9		9		9		9	
1/4	2,136.94	1/4	1,758.98	1/4	1,381.03	1/4	1,003.22	1/4	625.51	1/4	263.99	1/4		1/4		1/4		1/4	
1/2	2,129.07	1/2	1,751.11	1/2	1,373.15	1/2	995.36	1/2	617.64	1/2	257.03	1/2		1/2		1/2		1/2	
3/4	2,121.19	3/4	1,743.24	3/4	1,365.28	3/4	987.50	3/4	609.76	3/4	250.18	3/4		3/4		3/4		3/4	
10	2,113.32	10	1,735.36	10	1,357.41	10	979.64	10	601.89	10	243.33	10		10		10		10	
1/4	2,105.45	1/4	1,727.49	1/4	1,349.53	1/4	971.78	1/4	594.01	1/4	236.48	1/4		1/4		1/4		1/4	
1/2	2,097.57	1/2	1,719.61	1/2	1,341.66	1/2	963.91	1/2	586.14	1/2	229.64	1/2		1/2		1/2		1/2	
3/4	2,089.70	3/4	1,711.74	3/4	1,333.78	3/4	956.05	3/4	578.27	3/4	222.90	3/4		3/4		3/4		3/4	
11	2,081.82	11	1,703.87	11	1,325.91	11	948.19	11	570.39	11	216.16	11		11		11		11	
1/4	2,073.95	1/4	1,695.99	1/4	1,318.04	1/4	940.33	1/4	562.52	1/4	209.42	1/4		1/4		1/4		1/4	
1/2	2,066.07	1/2	1,688.12	1/2	1,310.16	1/2	932.47	1/2	554.64	1/2	202.68	1/2		1/2		1/2		1/2	
3/4	2,058.20	3/4	1,680.24	3/4	1,302.29	3/4	924.60	3/4	546.78	3/4	196.05	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 29103"

## 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0		0	4,456.74	0	4,133.52	0	3,795.15	0	3,442.08	0	3,084.36	0	2,725.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,767.27	1/4	4,450.16	1/4	4,126.62	1/4	3,787.94	1/4	3,434.63	1/4	3,076.88	1/4	2,717.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,762.16	1/2	4,443.58	1/2	4,119.72	1/2	3,780.72	1/2	3,427.18	1/2	3,069.39	1/2	2,710.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,757.05	3/4	4,437.00	3/4	4,112.81	3/4	3,773.51	3/4	3,419.73	3/4	3,061.91	3/4	2,702.74
1	1	1	1	1	1	1	1	1	4,430.70	1	4,403.39	1	4,105.89	1	3,766.27	1	3,412.27	1	3,054.43	1	2,695.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,744.36	1/4	4,423.79	1/4	4,098.97	1/4	3,759.02	1/4	3,404.82	1/4	3,046.94	1/4	2,687.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,738.02	1/2	4,417.18	1/2	4,092.04	1/2	3,751.78	1/2	3,397.37	1/2	3,039.46	1/2	2,680.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,731.67	3/4	4,410.57	3/4	4,085.12	3/4	3,744.54	3/4	3,389.92	3/4	3,031.98	3/4	2,672.81
2	2	2	2	2	2	2	2	2	4,724.44	2	4,403.94	2	4,078.17	2	3,737.27	2	3,382.47	2	3,024.50	2	2,665.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.21	1/4	4,397.30	1/4	4,071.22	1/4	3,730.01	1/4	3,375.02	1/4	3,017.01	1/4	2,657.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.98	1/2	4,390.67	1/2	4,064.27	1/2	3,722.74	1/2	3,367.57	1/2	3,009.53	1/2	2,650.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.75	3/4	4,384.03	3/4	4,057.33	3/4	3,715.48	3/4	3,360.12	3/4	3,002.05	3/4	2,642.88
3	3	3	3	3	3	3	3	3	4,695.30	3	4,377.37	3	4,050.35	3	3,708.19	3	3,352.67	3	2,994.57	3	2,635.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,687.85	1/4	4,370.71	1/4	4,043.37	1/4	3,700.90	1/4	3,345.22	1/4	2,987.08	1/4	2,627.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,680.40	1/2	4,364.05	1/2	4,036.40	1/2	3,693.61	1/2	3,337.77	1/2	2,979.60	1/2	2,620.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,672.95	3/4	4,357.39	3/4	4,029.42	3/4	3,686.31	3/4	3,330.32	3/4	2,972.12	3/4	2,612.95
4	4	4	4	4	4	4	4	4	4,665.90	4	4,350.71	4	4,022.42	4	3,679.00	4	3,322.87	4	2,964.63	4	2,605.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,658.84	1/4	4,344.02	1/4	4,015.42	1/4	3,671.68	1/4	3,315.42	1/4	2,957.15	1/4	2,597.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,651.79	1/2	4,337.33	1/2	4,008.41	1/2	3,664.36	1/2	3,307.97	1/2	2,949.67	1/2	2,590.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,644.74	3/4	4,330.64	3/4	4,001.41	3/4	3,657.04	3/4	3,300.52	3/4	2,942.19	3/4	2,583.02
5	5	5	5	5	5	5	5	5	4,638.34	5	4,323.93	5	3,994.38	5	3,649.70	5	3,293.07	5	2,934.70	5	2,575.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,631.94	1/4	4,317.22	1/4	3,987.35	1/4	3,642.36	1/4	3,285.61	1/4	2,927.22	1/4	2,568.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,625.54	1/2	4,310.50	1/2	3,980.33	1/2	3,635.01	1/2	3,278.16	1/2	2,919.74	1/2	2,560.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,619.14	3/4	4,303.79	3/4	3,973.30	3/4	3,627.67	3/4	3,270.71	3/4	2,912.26	3/4	2,553.09
6	6	6	6	6	6	6	6	6	4,612.72	6	4,297.05	6	3,966.24	6	3,620.30	6	3,263.26	6	2,904.77	6	2,545.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,606.29	1/4	4,290.31	1/4	3,959.19	1/4	3,612.93	1/4	3,255.81	1/4	2,897.29	1/4	2,538.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,599.87	1/2	4,283.57	1/2	3,952.13	1/2	3,605.56	1/2	3,248.36	1/2	2,889.81	1/2	2,530.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,593.44	3/4	4,276.83	3/4	3,945.08	3/4	3,598.18	3/4	3,240.91	3/4	2,882.32	3/4	2,523.16
7	7	7	7	7	7	7	7	7	4,586.99	7	4,270.06	7	3,937.99	7	3,590.79	7	3,233.46	7	2,874.84	7	2,515.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.54	1/4	4,263.29	1/4	3,930.91	1/4	3,583.39	1/4	3,226.01	1/4	2,867.36	1/4	2,508.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,574.08	1/2	4,256.53	1/2	3,923.83	1/2	3,575.99	1/2	3,218.56	1/2	2,859.88	1/2	2,500.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,567.63	3/4	4,249.76	3/4	3,916.75	3/4	3,568.60	3/4	3,211.11	3/4	2,852.39	3/4	2,493.22
8	8	8	8	8	8	8	8	8	4,561.15	8	4,242.97	8	3,909.64	8	3,561.17	8	3,203.66	8	2,844.91	8	2,485.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,554.67	1/4	4,236.17	1/4	3,902.53	1/4	3,553.75	1/4	3,196.21	1/4	2,837.43	1/4	2,478.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,548.20	1/2	4,229.38	1/2	3,895.42	1/2	3,546.33	1/2	3,188.76	1/2	2,829.95	1/2	2,470.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,541.72	3/4	4,222.58	3/4	3,888.31	3/4	3,538.90	3/4	3,181.31	3/4	2,822.46	3/4	2,463.29
9	9	9	9	9	9	9	9	9	4,535.21	9	4,215.76	9	3,881.18	9	3,531.46	9	3,173.86	9	2,814.98	9	2,455.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,528.70	1/4	4,208.94	1/4	3,874.04	1/4	3,524.02	1/4	3,166.40	1/4	2,807.50	1/4	2,448.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,522.20	1/2	4,202.12	1/2	3,866.91	1/2	3,516.57	1/2	3,158.95	1/2	2,800.02	1/2	2,440.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,515.69	3/4	4,195.30	3/4	3,859.77	3/4	3,509.13	3/4	3,151.50	3/4	2,792.53	3/4	2,433.36
10	10	10	10	10	10	10	10	10	4,509.16	10	4,188.46	10	3,852.61	10	3,501.68	10	3,144.05	10	2,785.05	10	2,425.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,502.63	1/4	4,181.61	1/4	3,845.45	1/4	3,494.23	1/4	3,136.60	1/4	2,777.57	1/4	2,418.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,496.10	1/2	4,174.76	1/2	3,838.29	1/2	3,486.78	1/2	3,129.15	1/2	2,770.08	1/2	2,410.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,489.57	3/4	4,167.91	3/4	3,831.13	3/4	3,479.33	3/4	3,121.70	3/4	2,762.60	3/4	2,403.43
11	11	11	11	11	11	11	11	11	4,483.01	11	4,161.04	11	3,823.94	11	3,471.88	11	3,114.24	11	2,755.12	11	2,395.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,476.45	1/4	4,154.17	1/4	3,816.75	1/4	3,464.43	1/4	3,106.77	1/4	2,747.64	1/4	2,388.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,469.89	1/2	4,147.29	1/2	3,809.56	1/2	3,456.98	1/2	3,099.31	1/2	2,740.15	1/2	2,380.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,463.33	3/4	4,140.42	3/4	3,802.37	3/4	3,449.53	3/4	3,091.84	3/4	2,732.67	3/4	2,373.50

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29103"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,366.02	0	2,006.85	0	1,647.68	0	1,297.14	0	952.18	0	594.68	0	235.52	0		0		0	
1/4	2,358.54	1/4	1,999.37	1/4	1,640.20	1/4	1,289.94	1/4	945.00	1/4	587.20	1/4	228.04	1/4	1/4	1/4		1/4	
1/2	2,351.05	1/2	1,991.88	1/2	1,632.71	1/2	1,282.74	1/2	937.82	1/2	579.72	1/2	220.56	1/2	1/2	1/2		1/2	
3/4	2,343.57	3/4	1,984.40	3/4	1,625.23	3/4	1,275.54	3/4	930.64	3/4	572.24	3/4	213.08	3/4	3/4	3/4		3/4	
1	2,336.09	1	1,976.92	1	1,617.75	1	1,268.34	1	923.35	1	564.75	1	205.60	1	1	1		1	
1/4	2,328.61	1/4	1,969.44	1/4	1,610.27	1/4	1,261.14	1/4	916.05	1/4	557.27	1/4	198.12	1/4	1/4	1/4		1/4	
1/2	2,321.12	1/2	1,961.95	1/2	1,602.78	1/2	1,253.94	1/2	908.76	1/2	549.79	1/2	190.64	1/2	1/2	1/2		1/2	
3/4	2,313.64	3/4	1,954.47	3/4	1,595.30	3/4	1,246.74	3/4	901.47	3/4	542.31	3/4	183.15	3/4	3/4	3/4		3/4	
2	2,306.16	2	1,946.99	2	1,587.82	2	1,239.54	2	893.98	2	534.82	2	175.68	2	2	2		2	
1/4	2,298.67	1/4	1,939.50	1/4	1,580.34	1/4	1,232.34	1/4	886.50	1/4	527.34	1/4	168.21	1/4	1/4	1/4		1/4	
1/2	2,291.19	1/2	1,932.02	1/2	1,572.85	1/2	1,225.14	1/2	879.02	1/2	519.86	1/2	160.73	1/2	1/2	1/2		1/2	
3/4	2,283.71	3/4	1,924.54	3/4	1,565.37	3/4	1,217.94	3/4	871.54	3/4	512.38	3/4	153.26	3/4	3/4	3/4		3/4	
3	2,276.23	3	1,917.06	3	1,557.89	3	1,210.75	3	864.05	3	504.89	3	145.80	3	3	3		3	
1/4	2,268.74	1/4	1,909.57	1/4	1,550.40	1/4	1,203.55	1/4	856.57	1/4	497.41	1/4	138.33	1/4	1/4	1/4		1/4	
1/2	2,261.26	1/2	1,902.09	1/2	1,542.92	1/2	1,196.36	1/2	849.09	1/2	489.93	1/2	130.87	1/2	1/2	1/2		1/2	
3/4	2,253.78	3/4	1,894.61	3/4	1,535.44	3/4	1,189.16	3/4	841.61	3/4	482.45	3/4	123.41	3/4	3/4	3/4		3/4	
4	2,246.30	4	1,887.13	4	1,528.06	4	1,181.98	4	834.12	4	474.96	4	115.96	4	4	4		4	
1/4	2,238.81	1/4	1,879.64	1/4	1,520.68	1/4	1,174.79	1/4	826.64	1/4	467.48	1/4	108.52	1/4	1/4	1/4		1/4	
1/2	2,231.33	1/2	1,872.16	1/2	1,513.31	1/2	1,167.60	1/2	819.16	1/2	460.00	1/2	101.07	1/2	1/2	1/2		1/2	
3/4	2,223.85	3/4	1,864.68	3/4	1,505.93	3/4	1,160.41	3/4	811.68	3/4	452.52	3/4	93.63	3/4	3/4	3/4		3/4	
5	2,216.36	5	1,857.20	5	1,498.73	5	1,153.23	5	804.19	5	445.03	5	86.21	5	5	5		5	
1/4	2,208.88	1/4	1,849.71	1/4	1,491.53	1/4	1,146.05	1/4	796.71	1/4	437.55	1/4	78.80	1/4	1/4	1/4		1/4	
1/2	2,201.40	1/2	1,842.23	1/2	1,484.33	1/2	1,138.86	1/2	789.23	1/2	430.07	1/2	71.39	1/2	1/2	1/2		1/2	
3/4	2,193.92	3/4	1,834.75	3/4	1,477.13	3/4	1,131.68	3/4	781.75	3/4	422.59	3/4	63.97	3/4	3/4	3/4		3/4	
6	2,186.43	6	1,827.26	6	1,469.93	6	1,124.50	6	774.26	6	415.10	6	57.02	6	6	6		6	
1/4	2,178.95	1/4	1,819.78	1/4	1,462.73	1/4	1,117.32	1/4	766.78	1/4	407.62	1/4	50.07	1/4	1/4	1/4		1/4	
1/2	2,171.47	1/2	1,812.30	1/2	1,455.53	1/2	1,110.14	1/2	759.30	1/2	400.14	1/2	43.11	1/2	1/2	1/2		1/2	
3/4	2,163.99	3/4	1,804.82	3/4	1,448.33	3/4	1,102.96	3/4	751.82	3/4	392.66	3/4	36.16	3/4	3/4	3/4		3/4	
7	2,156.50	7	1,797.33	7	1,441.13	7	1,095.78	7	744.33	7	385.17	7	30.86	7	7	7		7	
1/4	2,149.02	1/4	1,789.85	1/4	1,433.93	1/4	1,088.60	1/4	736.85	1/4	377.69	1/4	25.56	1/4	1/4	1/4		1/4	
1/2	2,141.54	1/2	1,782.37	1/2	1,426.73	1/2	1,081.42	1/2	729.37	1/2	370.21	1/2	20.26	1/2	1/2	1/2		1/2	
3/4	2,134.05	3/4	1,774.89	3/4	1,419.53	3/4	1,074.24	3/4	721.89	3/4	362.73	3/4	14.97	3/4	3/4	3/4		3/4	
8	2,126.57	8	1,767.40	8	1,412.33	8	1,067.06	8	714.40	8	355.24	8		8	8	8		8	
1/4	2,119.09	1/4	1,759.92	1/4	1,405.14	1/4	1,059.88	1/4	706.92	1/4	347.76	1/4		1/4	1/4	1/4		1/4	
1/2	2,111.61	1/2	1,752.44	1/2	1,397.94	1/2	1,052.70	1/2	699.44	1/2	340.28	1/2		1/2	1/2	1/2		1/2	
3/4	2,104.12	3/4	1,744.95	3/4	1,390.74	3/4	1,045.52	3/4	691.96	3/4	332.80	3/4		3/4	3/4	3/4		3/4	
9	2,096.64	9	1,737.47	9	1,383.54	9	1,038.34	9	684.47	9	325.31	9		9	9	9		9	
1/4	2,089.16	1/4	1,729.99	1/4	1,376.34	1/4	1,031.16	1/4	676.99	1/4	317.83	1/4		1/4	1/4	1/4		1/4	
1/2	2,081.68	1/2	1,722.51	1/2	1,369.14	1/2	1,023.98	1/2	669.51	1/2	310.35	1/2		1/2	1/2	1/2		1/2	
3/4	2,074.19	3/4	1,715.02	3/4	1,361.94	3/4	1,016.80	3/4	662.03	3/4	302.87	3/4		3/4	3/4	3/4		3/4	
10	2,066.71	10	1,707.54	10	1,354.74	10	1,009.62	10	654.54	10	295.38	10		10	10	10		10	
1/4	2,059.23	1/4	1,700.06	1/4	1,347.54	1/4	1,002.44	1/4	647.06	1/4	287.90	1/4		1/4	1/4	1/4		1/4	
1/2	2,051.75	1/2	1,692.58	1/2	1,340.34	1/2	995.26	1/2	639.58	1/2	280.42	1/2		1/2	1/2	1/2		1/2	
3/4	2,044.26	3/4	1,685.09	3/4	1,333.14	3/4	988.08	3/4	632.10	3/4	272.94	3/4		3/4	3/4	3/4		3/4	
11	2,036.78	11	1,677.61	11	1,325.94	11	980.90	11	624.61	11	265.45	11		11	11	11		11	
1/4	2,029.30	1/4	1,670.13	1/4	1,318.74	1/4	973.72	1/4	617.13	1/4	257.97	1/4		1/4	1/4	1/4		1/4	
1/2	2,021.81	1/2	1,662.64	1/2	1,311.54	1/2	966.54	1/2	609.65	1/2	250.49	1/2		1/2	1/2	1/2		1/2	
3/4	2,014.33	3/4	1,655.16	3/4	1,304.34	3/4	959.36	3/4	602.17	3/4	243.01	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 29103"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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		0	4,487.45	0	4,164.54	0	3,826.49	0	3,473.65	0	3,115.99	0	2,756.81		
1/4		1/4		1/4		1/4		1/4	4,480.87	1/4	4,157.64	1/4	3,819.28	1/4	3,466.20	1/4	3,108.50	1/4	2,749.33		
1/2		1/2		1/2		1/2		1/2	4,791.40	1/2	4,474.29	1/2	4,150.74	1/2	3,812.06	1/2	3,458.75	1/2	3,101.02	1/2	2,741.85
3/4		3/4		3/4		3/4		3/4	4,786.28	3/4	4,467.70	3/4	4,143.84	3/4	3,804.85	3/4	3,451.30	3/4	3,093.54	3/4	2,734.36
1		1		1		1		1	4,461.17	1	4,146.12	1	4,136.94	1	3,797.63	1	3,443.85	1	3,086.06	1	2,726.88
1/4		1/4		1/4		1/4		1/4	4,774.83	1/4	4,454.52	1/4	4,130.01	1/4	3,790.39	1/4	3,436.40	1/4	3,078.57	1/4	2,719.40
1/2		1/2		1/2		1/2		1/2	4,768.48	1/2	4,447.91	1/2	4,123.09	1/2	3,783.15	1/2	3,428.95	1/2	3,071.09	1/2	2,711.92
3/4		3/4		3/4		3/4		3/4	4,762.14	3/4	4,441.30	3/4	4,116.17	3/4	3,775.90	3/4	3,421.50	3/4	3,063.61	3/4	2,704.43
2		2		2		2		2	4,755.80	2	4,434.69	2	4,109.24	2	3,768.66	2	3,414.05	2	3,056.12	2	2,696.95
1/4		1/4		1/4		1/4		1/4	4,748.57	1/4	4,428.06	1/4	4,102.30	1/4	3,761.40	1/4	3,406.59	1/4	3,048.64	1/4	2,689.47
1/2		1/2		1/2		1/2		1/2	4,741.33	1/2	4,421.43	1/2	4,095.35	1/2	3,754.13	1/2	3,399.14	1/2	3,041.16	1/2	2,681.98
3/4		3/4		3/4		3/4		3/4	4,734.10	3/4	4,414.79	3/4	4,088.40	3/4	3,746.87	3/4	3,391.69	3/4	3,033.68	3/4	2,674.50
3		3		3		3		3	4,726.87	3	4,408.16	3	4,081.45	3	3,739.60	3	3,384.24	3	3,026.19	3	2,667.02
1/4		1/4		1/4		1/4		1/4	4,719.42	1/4	4,401.50	1/4	4,074.47	1/4	3,732.31	1/4	3,376.79	1/4	3,018.71	1/4	2,659.54
1/2		1/2		1/2		1/2		1/2	4,711.97	1/2	4,394.84	1/2	4,067.50	1/2	3,725.02	1/2	3,369.34	1/2	3,011.23	1/2	2,652.05
3/4		3/4		3/4		3/4		3/4	4,704.52	3/4	4,388.18	3/4	4,060.52	3/4	3,717.73	3/4	3,361.89	3/4	3,003.74	3/4	2,644.57
4		4		4		4		4	4,697.07	4	4,381.52	4	4,053.54	4	3,710.44	4	3,354.44	4	2,996.26	4	2,637.09
1/4		1/4		1/4		1/4		1/4	4,690.02	1/4	4,374.83	1/4	4,046.54	1/4	3,703.12	1/4	3,346.99	1/4	2,988.78	1/4	2,629.60
1/2		1/2		1/2		1/2		1/2	4,682.97	1/2	4,368.14	1/2	4,039.54	1/2	3,695.80	1/2	3,339.54	1/2	2,981.30	1/2	2,622.12
3/4		3/4		3/4		3/4		3/4	4,675.91	3/4	4,361.45	3/4	4,032.54	3/4	3,688.48	3/4	3,332.09	3/4	2,973.81	3/4	2,614.64
5		5		5		5		5	4,668.86	5	4,354.77	5	4,025.54	5	3,681.17	5	3,324.64	5	2,966.33	5	2,607.16
1/4		1/4		1/4		1/4		1/4	4,662.46	1/4	4,348.05	1/4	4,018.51	1/4	3,673.82	1/4	3,317.19	1/4	2,958.85	1/4	2,599.67
1/2		1/2		1/2		1/2		1/2	4,656.06	1/2	4,341.34	1/2	4,011.48	1/2	3,666.48	1/2	3,309.74	1/2	2,951.36	1/2	2,592.19
3/4		3/4		3/4		3/4		3/4	4,649.66	3/4	4,334.63	3/4	4,004.45	3/4	3,659.14	3/4	3,302.29	3/4	2,943.88	3/4	2,584.71
6		6		6		6		6	4,643.26	6	4,327.91	6	3,997.42	6	3,651.79	6	3,294.84	6	2,936.40	6	2,577.22
1/4		1/4		1/4		1/4		1/4	4,636.84	1/4	4,321.17	1/4	3,990.36	1/4	3,644.42	1/4	3,287.39	1/4	2,928.92	1/4	2,569.74
1/2		1/2		1/2		1/2		1/2	4,630.41	1/2	4,314.43	1/2	3,983.31	1/2	3,637.05	1/2	3,279.93	1/2	2,921.43	1/2	2,562.26
3/4		3/4		3/4		3/4		3/4	4,623.99	3/4	4,307.69	3/4	3,976.25	3/4	3,629.68	3/4	3,272.48	3/4	2,913.95	3/4	2,554.78
7		7		7		7		7	4,617.56	7	4,300.95	7	3,969.20	7	3,622.31	7	3,265.03	7	2,906.47	7	2,547.29
1/4		1/4		1/4		1/4		1/4	4,611.11	1/4	4,294.18	1/4	3,962.12	1/4	3,614.91	1/4	3,257.58	1/4	2,898.99	1/4	2,539.81
1/2		1/2		1/2		1/2		1/2	4,604.66	1/2	4,287.42	1/2	3,955.03	1/2	3,607.51	1/2	3,250.13	1/2	2,891.50	1/2	2,532.33
3/4		3/4		3/4		3/4		3/4	4,598.21	3/4	4,280.65	3/4	3,947.95	3/4	3,600.12	3/4	3,242.68	3/4	2,884.02	3/4	2,524.85
8		8		8		8		8	4,591.75	8	4,273.88	8	3,940.87	8	3,592.72	8	3,235.23	8	2,876.54	8	2,517.36
1/4		1/4		1/4		1/4		1/4	4,585.27	1/4	4,267.09	1/4	3,933.76	1/4	3,585.30	1/4	3,227.78	1/4	2,869.05	1/4	2,509.88
1/2		1/2		1/2		1/2		1/2	4,578.80	1/2	4,260.29	1/2	3,926.65	1/2	3,577.87	1/2	3,220.33	1/2	2,861.57	1/2	2,502.40
3/4		3/4		3/4		3/4		3/4	4,572.32	3/4	4,253.50	3/4	3,919.55	3/4	3,570.45	3/4	3,212.88	3/4	2,854.09	3/4	2,494.91
9		9		9		9		9	4,565.84	9	4,246.71	9	3,912.44	9	3,563.03	9	3,205.43	9	2,846.61	9	2,487.43
1/4		1/4		1/4		1/4		1/4	4,559.33	1/4	4,239.89	1/4	3,905.30	1/4	3,555.58	1/4	3,197.98	1/4	2,839.12	1/4	2,479.95
1/2		1/2		1/2		1/2		1/2	4,552.83	1/2	4,233.07	1/2	3,898.17	1/2	3,548.14	1/2	3,190.53	1/2	2,831.64	1/2	2,472.47
3/4		3/4		3/4		3/4		3/4	4,546.32	3/4	4,226.25	3/4	3,891.03	3/4	3,540.70	3/4	3,183.08	3/4	2,824.16	3/4	2,464.98
10		10		10		10		10	4,539.81	10	4,219.43	10	3,883.89	10	3,533.26	10	3,175.63	10	2,816.67	10	2,457.50
1/4		1/4		1/4		1/4		1/4	4,533.28	1/4	4,212.58	1/4	3,876.73	1/4	3,525.80	1/4	3,168.18	1/4	2,809.19	1/4	2,450.02
1/2		1/2		1/2		1/2		1/2	4,526.75	1/2	4,205.73	1/2	3,869.57	1/2	3,518.35	1/2	3,160.72	1/2	2,801.71	1/2	2,442.53
3/4		3/4		3/4		3/4		3/4	4,520.22	3/4	4,198.88	3/4	3,862.41	3/4	3,510.90	3/4	3,153.27	3/4	2,794.23	3/4	2,435.05
11		11		11		11		11	4,513.69	11	4,192.04	11	3,855.25	11	3,503.45	11	3,145.82	11	2,786.74	11	2,427.57
1/4		1/4		1/4		1/4		1/4	4,507.13	1/4	4,185.16	1/4	3,848.06	1/4	3,496.00	1/4	3,138.36	1/4	2,779.26	1/4	2,420.09
1/2		1/2		1/2		1/2		1/2	4,500.57	1/2	4,178.29	1/2	3,840.87	1/2	3,488.55	1/2	3,130.91	1/2	2,771.78	1/2	2,412.60
3/4		3/4		3/4		3/4		3/4	4,494.01	3/4	4,171.42	3/4	3,833.68	3/4	3,481.10	3/4	3,123.45	3/4	2,764.29	3/4	2,405.12

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

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# BARGE "KIRBY 29103"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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	2,397.64	0	2,038.46	0	1,679.29	0	1,320.11	0	961.20	0	602.17	0	243.01	0		0		0	
1/4	2,390.15	1/4	2,030.98	1/4	1,671.81	1/4	1,312.63	1/4	953.73	1/4	594.68	1/4	235.52	1/4		1/4		1/4	
1/2	2,382.67	1/2	2,023.50	1/2	1,664.32	1/2	1,305.15	1/2	946.26	1/2	587.20	1/2	228.04	1/2		1/2		1/2	
3/4	2,375.19	3/4	2,016.01	3/4	1,656.84	3/4	1,297.67	3/4	938.79	3/4	579.72	3/4	220.56	3/4		3/4		3/4	
1	2,367.71	1	2,008.53	1	1,649.36	1	1,290.18	1	931.32	1	572.24	1	213.08	1		1		1	
1/4	2,360.22	1/4	2,001.05	1/4	1,641.87	1/4	1,282.70	1/4	923.85	1/4	564.75	1/4	205.60	1/4		1/4		1/4	
1/2	2,352.74	1/2	1,993.57	1/2	1,634.39	1/2	1,275.22	1/2	916.38	1/2	557.27	1/2	198.12	1/2		1/2		1/2	
3/4	2,345.26	3/4	1,986.08	3/4	1,626.91	3/4	1,267.73	3/4	908.91	3/4	549.79	3/4	190.64	3/4		3/4		3/4	
2	2,337.78	2	1,978.60	2	1,619.43	2	1,260.25	2	901.44	2	542.31	2	183.15	2		2		2	
1/4	2,330.29	1/4	1,971.12	1/4	1,611.94	1/4	1,252.77	1/4	893.96	1/4	534.82	1/4	175.68	1/4		1/4		1/4	
1/2	2,322.81	1/2	1,963.64	1/2	1,604.46	1/2	1,245.29	1/2	886.49	1/2	527.34	1/2	168.21	1/2		1/2		1/2	
3/4	2,315.33	3/4	1,956.15	3/4	1,596.98	3/4	1,237.80	3/4	879.01	3/4	519.86	3/4	160.73	3/4		3/4		3/4	
3	2,307.84	3	1,948.67	3	1,589.50	3	1,230.32	3	871.54	3	512.38	3	153.26	3		3		3	
1/4	2,300.36	1/4	1,941.19	1/4	1,582.01	1/4	1,222.84	1/4	864.05	1/4	504.89	1/4	145.80	1/4		1/4		1/4	
1/2	2,292.88	1/2	1,933.70	1/2	1,574.53	1/2	1,215.36	1/2	856.57	1/2	497.41	1/2	138.33	1/2		1/2		1/2	
3/4	2,285.40	3/4	1,926.22	3/4	1,567.05	3/4	1,207.87	3/4	849.09	3/4	489.93	3/4	130.87	3/4		3/4		3/4	
4	2,277.91	4	1,918.74	4	1,559.56	4	1,200.39	4	841.61	4	482.45	4	123.41	4		4		4	
1/4	2,270.43	1/4	1,911.26	1/4	1,552.08	1/4	1,192.91	1/4	834.12	1/4	474.96	1/4	115.96	1/4		1/4		1/4	
1/2	2,262.95	1/2	1,903.77	1/2	1,544.60	1/2	1,185.42	1/2	826.64	1/2	467.48	1/2	108.52	1/2		1/2		1/2	
3/4	2,255.46	3/4	1,896.29	3/4	1,537.12	3/4	1,177.94	3/4	819.16	3/4	460.00	3/4	101.07	3/4		3/4		3/4	
5	2,247.98	5	1,888.81	5	1,529.63	5	1,170.46	5	811.68	5	452.52	5	93.63	5		5		5	
1/4	2,240.50	1/4	1,881.32	1/4	1,522.15	1/4	1,162.98	1/4	804.19	1/4	445.03	1/4	86.21	1/4		1/4		1/4	
1/2	2,233.02	1/2	1,873.84	1/2	1,514.67	1/2	1,155.49	1/2	796.71	1/2	437.55	1/2	78.80	1/2		1/2		1/2	
3/4	2,225.53	3/4	1,866.36	3/4	1,507.18	3/4	1,148.01	3/4	789.23	3/4	430.07	3/4	71.39	3/4		3/4		3/4	
6	2,218.05	6	1,858.88	6	1,499.70	6	1,140.53	6	781.75	6	422.59	6	63.97	6		6		6	
1/4	2,210.57	1/4	1,851.39	1/4	1,492.22	1/4	1,133.05	1/4	774.26	1/4	415.10	1/4	57.02	1/4		1/4		1/4	
1/2	2,203.08	1/2	1,843.91	1/2	1,484.74	1/2	1,125.57	1/2	766.78	1/2	407.62	1/2	50.07	1/2		1/2		1/2	
3/4	2,195.60	3/4	1,836.43	3/4	1,477.25	3/4	1,118.09	3/4	759.30	3/4	400.14	3/4	43.11	3/4		3/4		3/4	
7	2,188.12	7	1,828.94	7	1,469.77	7	1,110.61	7	751.82	7	392.66	7	36.16	7		7		7	
1/4	2,180.64	1/4	1,821.46	1/4	1,462.29	1/4	1,103.14	1/4	744.33	1/4	385.17	1/4	30.86	1/4		1/4		1/4	
1/2	2,173.15	1/2	1,813.98	1/2	1,454.80	1/2	1,095.67	1/2	736.85	1/2	377.69	1/2	25.56	1/2		1/2		1/2	
3/4	2,165.67	3/4	1,806.50	3/4	1,447.32	3/4	1,088.20	3/4	729.37	3/4	370.21	3/4	20.26	3/4		3/4		3/4	
8	2,158.19	8	1,799.01	8	1,439.84	8	1,080.73	8	721.89	8	362.73	8	14.97	8		8		8	
1/4	2,150.71	1/4	1,791.53	1/4	1,432.36	1/4	1,073.26	1/4	714.40	1/4	355.24	1/4		1/4		1/4		1/4	
1/2	2,143.22	1/2	1,784.05	1/2	1,424.87	1/2	1,065.79	1/2	706.92	1/2	347.76	1/2		1/2		1/2		1/2	
3/4	2,135.74	3/4	1,776.57	3/4	1,417.39	3/4	1,058.32	3/4	699.44	3/4	340.28	3/4		3/4		3/4		3/4	
9	2,128.26	9	1,769.08	9	1,409.91	9	1,050.85	9	691.96	9	332.80	9		9		9		9	
1/4	2,120.77	1/4	1,761.60	1/4	1,402.43	1/4	1,043.38	1/4	684.47	1/4	325.31	1/4		1/4		1/4		1/4	
1/2	2,113.29	1/2	1,754.12	1/2	1,394.94	1/2	1,035.91	1/2	676.99	1/2	317.83	1/2		1/2		1/2		1/2	
3/4	2,105.81	3/4	1,746.63	3/4	1,387.46	3/4	1,028.44	3/4	669.51	3/4	310.35	3/4		3/4		3/4		3/4	
10	2,098.33	10	1,739.15	10	1,379.98	10	1,020.97	10	662.03	10	302.87	10		10		10		10	
1/4	2,090.84	1/4	1,731.67	1/4	1,372.49	1/4	1,013.50	1/4	654.54	1/4	295.38	1/4		1/4		1/4		1/4	
1/2	2,083.36	1/2	1,724.19	1/2	1,365.01	1/2	1,006.03	1/2	647.06	1/2	287.90	1/2		1/2		1/2		1/2	
3/4	2,075.88	3/4	1,716.70	3/4	1,357.53	3/4	998.56	3/4	639.58	3/4	280.42	3/4		3/4		3/4		3/4	
11	2,068.39	11	1,709.22	11	1,350.05	11	991.08	11	632.10	11	272.94	11		11		11		11	
1/4	2,060.91	1/4	1,701.74	1/4	1,342.56	1/4	983.61	1/4	624.61	1/4	265.45	1/4		1/4		1/4		1/4	
1/2	2,053.43	1/2	1,694.25	1/2	1,335.08	1/2	976.14	1/2	617.13	1/2	257.97	1/2		1/2		1/2		1/2	
3/4	2,045.95	3/4	1,686.77	3/4	1,327.60	3/4	968.67	3/4	609.65	3/4	250.49	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 29103"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	4,356.18	0	4,114.74	0	3,867.90	0	3,609.06	0	3,338.56	0	2,984.20	0	2,627.49
1/4		1/4		1/4		1/4	4,351.54	1/4	4,109.73	1/4	3,862.63	1/4	3,603.55	1/4	3,332.85	1/4	2,976.77	1/4	2,620.06
1/2		1/2		1/2		1/2	4,347.39	1/2	4,104.70	1/2	3,857.35	1/2	3,598.01	1/2	3,325.42	1/2	2,969.33	1/2	2,612.63
3/4		3/4		3/4		3/4	4,343.23	3/4	4,099.67	3/4	3,852.06	3/4	3,592.47	3/4	3,317.98	3/4	2,961.90	3/4	2,605.20
1		1		1		1	4,339.08	1	4,094.64	1	3,846.78	1	3,586.93	1	3,310.55	1	2,954.47	1	2,597.76
1/4		1/4		1/4		1/4	4,334.92	1/4	4,089.61	1/4	3,841.50	1/4	3,581.40	1/4	3,303.11	1/4	2,947.04	1/4	2,590.33
1/2		1/2		1/2		1/2	4,329.56	1/2	4,084.55	1/2	3,836.19	1/2	3,575.84	1/2	3,295.68	1/2	2,939.61	1/2	2,582.90
3/4		3/4		3/4		3/4	4,324.20	3/4	4,079.50	3/4	3,830.89	3/4	3,570.29	3/4	3,288.25	3/4	2,932.18	3/4	2,575.47
2		2		2		2	4,318.84	2	4,074.44	2	3,825.59	2	3,564.73	2	3,280.81	2	2,924.75	2	2,568.04
1/4		1/4		1/4		1/4	4,313.48	1/4	4,069.39	1/4	3,820.29	1/4	3,559.18	1/4	3,273.38	1/4	2,917.31	1/4	2,560.61
1/2		1/2		1/2		1/2	4,307.77	1/2	4,064.32	1/2	3,814.96	1/2	3,553.61	1/2	3,265.94	1/2	2,909.88	1/2	2,553.18
3/4		3/4		3/4		3/4	4,302.06	3/4	4,059.24	3/4	3,809.64	3/4	3,548.04	3/4	3,258.51	3/4	2,902.45	3/4	2,545.74
3		3		3		3	4,296.36	3	4,054.17	3	3,804.31	3	3,542.46	3	3,251.07	3	2,895.02	3	2,538.31
1/4		1/4		1/4		1/4	4,290.65	1/4	4,049.10	1/4	3,798.99	1/4	3,536.89	1/4	3,243.64	1/4	2,887.59	1/4	2,530.88
1/2		1/2		1/2		1/2	4,284.94	1/2	4,044.00	1/2	3,793.64	1/2	3,531.29	1/2	3,236.20	1/2	2,880.16	1/2	2,523.45
3/4		3/4		3/4		3/4	4,279.23	3/4	4,038.91	3/4	3,788.30	3/4	3,525.70	3/4	3,228.77	3/4	2,872.73	3/4	2,516.02
4		4		4		4	4,273.52	4	4,033.81	4	3,782.96	4	3,520.10	4	3,221.34	4	2,865.29	4	2,508.59
1/4		1/4		1/4		1/4	4,267.81	1/4	4,028.71	1/4	3,777.61	1/4	3,514.51	1/4	3,213.90	1/4	2,857.86	1/4	2,501.16
1/2		1/2		1/2		1/2	4,262.94	1/2	4,023.60	1/2	3,772.24	1/2	3,508.89	1/2	3,206.49	1/2	2,850.43	1/2	2,493.72
3/4		3/4		3/4		3/4	4,258.08	3/4	4,018.48	3/4	3,766.88	3/4	3,503.28	3/4	3,199.09	3/4	2,843.00	3/4	2,486.29
5		5		5		5	4,253.21	5	4,013.37	5	3,761.51	5	3,497.66	5	3,191.68	5	2,835.57	5	2,478.86
1/4		1/4		1/4		1/4	4,248.34	1/4	4,008.26	1/4	3,756.14	1/4	3,492.05	1/4	3,184.27	1/4	2,828.14	1/4	2,471.43
1/2		1/2		1/2		1/2	4,243.46	1/2	4,003.12	1/2	3,750.76	1/2	3,486.41	1/2	3,176.86	1/2	2,820.71	1/2	2,464.00
3/4		3/4		3/4		3/4	4,238.57	3/4	3,997.98	3/4	3,745.37	3/4	3,480.77	3/4	3,169.46	3/4	2,813.27	3/4	2,456.57
6		6		6		6	4,233.69	6	3,992.84	6	3,739.99	6	3,475.13	6	3,162.05	6	2,805.84	6	2,449.14
1/4		1/4		1/4		1/4	4,228.80	1/4	3,987.70	1/4	3,734.60	1/4	3,469.50	1/4	3,154.64	1/4	2,798.41	1/4	2,441.70
1/2		1/2		1/2		1/2	4,223.89	1/2	3,982.54	1/2	3,729.19	1/2	3,463.84	1/2	3,147.23	1/2	2,790.98	1/2	2,434.27
3/4		3/4		3/4		3/4	4,218.98	3/4	3,977.39	3/4	3,723.78	3/4	3,458.18	3/4	3,139.83	3/4	2,783.55	3/4	2,426.84
7		7		7		7	4,214.07	7	3,972.23	7	3,718.37	7	3,452.52	7	3,132.42	7	2,776.12	7	2,419.41
1/4		1/4		1/4		1/4	4,209.16	1/4	3,967.07	1/4	3,712.96	1/4	3,446.87	1/4	3,125.01	1/4	2,768.69	1/4	2,411.98
1/2		1/2		1/2		1/2	4,204.23	1/2	3,961.89	1/2	3,707.54	1/2	3,441.19	1/2	3,117.60	1/2	2,761.25	1/2	2,404.55
3/4		3/4		3/4		3/4	4,199.30	3/4	3,956.71	3/4	3,702.11	3/4	3,435.51	3/4	3,110.20	3/4	2,753.82	3/4	2,397.12
8		8		8		8	4,194.38	8	3,951.53	8	3,696.68	8	3,429.83	8	3,102.79	8	2,746.39	8	2,389.68
1/4		1/4		1/4		1/4	4,189.45	1/4	3,946.35	1/4	3,691.25	1/4	3,424.15	1/4	3,095.38	1/4	2,738.96	1/4	2,382.25
1/2		1/2		1/2		1/2	4,184.50	1/2	3,941.15	1/2	3,685.80	1/2	3,418.45	1/2	3,087.97	1/2	2,731.53	1/2	2,374.82
3/4		3/4		3/4		3/4	4,179.54	3/4	3,935.95	3/4	3,680.35	3/4	3,412.75	3/4	3,080.57	3/4	2,724.10	3/4	2,367.39
9		9		9		9	4,174.59	9	3,930.75	9	3,674.90	9	3,407.05	9	3,073.16	9	2,716.67	9	2,359.96
1/4		1/4		1/4		1/4	4,169.64	1/4	3,925.55	1/4	3,669.45	1/4	3,401.35	1/4	3,065.75	1/4	2,709.23	1/4	2,352.53
1/2		1/2		1/2		1/2	4,164.67	1/2	3,920.33	1/2	3,663.98	1/2	3,395.64	1/2	3,058.34	1/2	2,701.80	1/2	2,345.09
3/4		3/4		3/4		3/4	4,159.70	3/4	3,915.11	3/4	3,658.51	3/4	3,389.94	3/4	3,050.94	3/4	2,694.37	3/4	2,337.66
10		10		10		10	4,154.73	10	3,909.88	10	3,653.04	10	3,384.23	10	3,043.53	10	2,686.94	10	2,330.23
1/4		1/4		1/4		1/4	4,149.76	1/4	3,904.66	1/4	3,647.57	1/4	3,378.52	1/4	3,036.12	1/4	2,679.51	1/4	2,322.80
1/2		1/2		1/2		1/2	4,144.76	1/2	3,899.42	1/2	3,642.07	1/2	3,372.81	1/2	3,028.71	1/2	2,672.08	1/2	2,315.37
3/4		3/4		3/4		3/4	4,139.77	3/4	3,894.18	3/4	3,636.58	3/4	3,367.10	3/4	3,021.31	3/4	2,664.65	3/4	2,307.93
11		11		11		11	4,134.77	11	3,888.94	11	3,631.09	11	3,361.39	11	3,013.90	11	2,657.21	11	2,300.50
1/4		1/4		1/4	4,370.09	1/4	4,129.78	1/4	3,883.70	1/4	3,625.59	1/4	3,355.69	1/4	3,006.49	1/4	2,649.78	1/4	2,293.07
1/2		1/2		1/2	4,365.45	1/2	4,124.76	1/2	3,878.43	1/2	3,620.08	1/2	3,349.98	1/2	2,999.06	1/2	2,642.35	1/2	2,285.64
3/4		3/4		3/4	4,360.82	3/4	4,119.75	3/4	3,873.16	3/4	3,614.57	3/4	3,344.27	3/4	2,991.63	3/4	2,634.92	3/4	2,278.21

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 29103"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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	IN	0
1/4	2,270.77	1/4	1,913.61	1/4	1,557.43	1/4	1,200.85	1/4	856.10	1/4	498.81	1/4	141.34	1/4		1/4		1/4			
1/2	2,263.34	1/2	1,906.16	1/2	1,550.01	1/2	1,193.67	1/2	848.67	1/2	491.37	1/2	133.90	1/2		1/2		1/2			
3/4	2,255.91	3/4	1,898.74	3/4	1,542.56	3/4	1,186.50	3/4	841.24	3/4	483.92	3/4	126.45	3/4		3/4		3/4			
0	2,248.48	0	1,891.32	0	1,535.12	0	1,179.32	0	833.82	0	476.47	0	119.00	0		0		0			
1/4	2,241.05	1/4	1,883.90	1/4	1,527.67	1/4	1,172.14	1/4	826.39	1/4	469.03	1/4	111.56	1/4		1/4		1/4			
1/2	2,233.62	1/2	1,876.48	1/2	1,520.23	1/2	1,164.96	1/2	818.96	1/2	461.58	1/2	104.11	1/2		1/2		1/2			
3/4	2,226.18	3/4	1,869.06	3/4	1,512.78	3/4	1,157.79	3/4	811.54	3/4	454.13	3/4	96.98	3/4		3/4		3/4			
0	2,218.75	0	1,861.64	0	1,505.33	0	1,150.61	0	804.11	0	446.68	0	89.85	0		0		0			
1/4	2,211.32	1/4	1,854.22	1/4	1,497.89	1/4	1,143.43	1/4	796.69	1/4	439.24	1/4	82.71	1/4		1/4		1/4			
1/2	2,203.89	1/2	1,846.80	1/2	1,490.44	1/2	1,136.25	1/2	789.26	1/2	431.79	1/2	75.58	1/2		1/2		1/2			
3/4	2,196.46	3/4	1,839.38	3/4	1,483.00	3/4	1,129.07	3/4	781.81	3/4	424.34	3/4	69.39	3/4		3/4		3/4			
0	2,189.02	0	1,831.96	0	1,475.55	0	1,121.90	0	774.36	0	416.89	0	63.20	0		0		0			
1/4	2,181.59	1/4	1,824.54	1/4	1,468.10	1/4	1,114.72	1/4	766.92	1/4	409.45	1/4	57.01	1/4		1/4		1/4			
1/2	2,174.16	1/2	1,817.12	1/2	1,460.66	1/2	1,107.54	1/2	759.47	1/2	402.00	1/2	50.82	1/2		1/2		1/2			
3/4	2,166.73	3/4	1,809.70	3/4	1,453.21	3/4	1,100.36	3/4	752.02	3/4	394.55	3/4	45.89	3/4		3/4		3/4			
0	2,159.30	0	1,802.28	0	1,445.77	0	1,093.19	0	744.58	0	387.11	0	40.95	0		0		0			
1/4	2,151.86	1/4	1,794.86	1/4	1,438.32	1/4	1,086.01	1/4	737.13	1/4	379.66	1/4	36.02	1/4		1/4		1/4			
1/2	2,144.43	1/2	1,787.44	1/2	1,430.87	1/2	1,078.83	1/2	729.68	1/2	372.21	1/2	31.09	1/2		1/2		1/2			
3/4	2,136.99	3/4	1,780.02	3/4	1,423.43	3/4	1,071.67	3/4	722.23	3/4	364.76	3/4	27.42	3/4		3/4		3/4			
0	2,129.54	0	1,772.60	0	1,415.98	0	1,064.50	0	714.79	0	357.32	0	23.75	0		0		0			
1/4	2,122.09	1/4	1,765.18	1/4	1,408.54	1/4	1,057.34	1/4	707.34	1/4	349.87	1/4	20.08	1/4		1/4		1/4			
1/2	2,114.65	1/2	1,757.76	1/2	1,401.09	1/2	1,050.17	1/2	699.89	1/2	342.42	1/2	16.41	1/2		1/2		1/2			
3/4	2,107.20	3/4	1,750.34	3/4	1,393.64	3/4	1,043.01	3/4	692.44	3/4	334.97	3/4		3/4		3/4		3/4			
0	2,099.76	0	1,742.92	0	1,386.20	0	1,035.85	0	685.00	0	327.53	0		0		0		0			
1/4	2,092.31	1/4	1,735.50	1/4	1,378.75	1/4	1,028.68	1/4	677.55	1/4	320.08	1/4		1/4		1/4		1/4			
1/2	2,084.86	1/2	1,728.09	1/2	1,371.31	1/2	1,021.52	1/2	670.10	1/2	312.63	1/2		1/2		1/2		1/2			
3/4	2,077.42	3/4	1,720.67	3/4	1,363.86	3/4	1,014.36	3/4	662.66	3/4	305.18	3/4		3/4		3/4		3/4			
0	2,069.97	0	1,713.25	0	1,356.41	0	1,007.20	0	655.21	0	297.74	0		0		0		0			
1/4	2,062.53	1/4	1,705.83	1/4	1,348.97	1/4	1,000.04	1/4	647.76	1/4	290.29	1/4		1/4		1/4		1/4			
1/2	2,055.08	1/2	1,698.41	1/2	1,341.52	1/2	992.88	1/2	640.31	1/2	282.84	1/2		1/2		1/2		1/2			
3/4	2,047.63	3/4	1,690.99	3/4	1,334.08	3/4	985.72	3/4	632.87	3/4	275.40	3/4		3/4		3/4		3/4			
0	2,040.19	0	1,683.57	0	1,326.63	0	978.57	0	625.42	0	267.95	0		0		0		0			
1/4	2,032.74	1/4	1,676.15	1/4	1,319.18	1/4	971.41	1/4	617.97	1/4	260.50	1/4		1/4		1/4		1/4			
1/2	2,025.30	1/2	1,668.73	1/2	1,311.74	1/2	964.25	1/2	610.52	1/2	253.05	1/2		1/2		1/2		1/2			
3/4	2,017.85	3/4	1,661.31	3/4	1,304.29	3/4	957.10	3/4	603.08	3/4	245.61	3/4		3/4		3/4		3/4			
0	2,010.40	0	1,653.89	0	1,296.85	0	949.94	0	595.63	0	238.16	0		0		0		0			
1/4	2,002.96	1/4	1,646.47	1/4	1,289.40	1/4	942.78	1/4	588.18	1/4	230.71	1/4		1/4		1/4		1/4			
1/2	1,995.51	1/2	1,639.05	1/2	1,281.95	1/2	935.63	1/2	580.74	1/2	223.26	1/2		1/2		1/2		1/2			
3/4	1,988.07	3/4	1,631.63	3/4	1,274.51	3/4	928.47	3/4	573.29	3/4	215.82	3/4		3/4		3/4		3/4			
0	1,980.62	0	1,624.21	0	1,267.06	0	921.31	0	565.84	0	208.37	0		0		0		0			
1/4	1,973.17	1/4	1,616.79	1/4	1,259.62	1/4	914.16	1/4	558.39	1/4	200.92	1/4		1/4		1/4		1/4			
1/2	1,965.73	1/2	1,609.37	1/2	1,252.17	1/2	907.00	1/2	550.95	1/2	193.48	1/2		1/2		1/2		1/2			
3/4	1,958.28	3/4	1,601.95	3/4	1,244.72	3/4	899.84	3/4	543.50	3/4	186.03	3/4		3/4		3/4		3/4			
0	1,950.84	0	1,594.53	0	1,237.28	0	892.69	0	536.05	0	178.58	0		0		0		0			
1/4	1,943.39	1/4	1,587.11	1/4	1,229.83	1/4	885.53	1/4	528.60	1/4	171.13	1/4		1/4		1/4		1/4			
1/2	1,935.94	1/2	1,579.69	1/2	1,222.39	1/2	878.38	1/2	521.16	1/2	163.69	1/2		1/2		1/2		1/2			
3/4	1,928.50	3/4	1,572.27	3/4	1,215.21	3/4	870.95	3/4	513.71	3/4	156.24	3/4		3/4		3/4		3/4			
0	1,921.05	0	1,564.85	0	1,208.03	0	863.52	0	506.26	0	148.79	0		0		0		0			

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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<http://www.pmacorp.net>



# BARGE "KIRBY 29103"

**3 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	4,384.11	0	4,141.51	0	3,893.50	0	3,633.49	0	3,361.79	0	3,005.48	0	2,647.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,379.45	1/4	4,136.47	1/4	3,888.21	1/4	3,627.96	1/4	3,356.05	1/4	2,998.02	1/4	2,639.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,375.27	1/2	4,131.42	1/2	3,882.91	1/2	3,622.40	1/2	3,348.59	1/2	2,990.56	1/2	2,632.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,371.09	3/4	4,126.36	3/4	3,877.60	3/4	3,616.83	3/4	3,341.14	3/4	2,983.10	3/4	2,625.06		
1		1		1		1	4,366.91	1	4,121.31	1	3,872.29	1	3,611.27	1	3,333.68	1	2,975.64	1	2,617.60		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.73	1/4	4,116.25	1/4	3,866.98	1/4	3,605.71	1/4	3,326.22	1/4	2,968.18	1/4	2,610.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,357.35	1/2	4,111.18	1/2	3,861.66	1/2	3,600.13	1/2	3,318.76	1/2	2,960.72	1/2	2,602.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,351.96	3/4	4,106.10	3/4	3,856.33	3/4	3,594.55	3/4	3,311.30	3/4	2,953.26	3/4	2,595.23		
2		2		2		2	4,346.58	2	4,101.02	2	3,851.01	2	3,588.97	2	3,303.84	2	2,945.80	2	2,587.77		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,341.19	1/4	4,095.94	1/4	3,845.68	1/4	3,583.40	1/4	3,296.38	1/4	2,938.34	1/4	2,580.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,335.46	1/2	4,090.84	1/2	3,840.33	1/2	3,577.80	1/2	3,288.92	1/2	2,930.88	1/2	2,572.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,329.73	3/4	4,085.75	3/4	3,834.98	3/4	3,572.20	3/4	3,281.46	3/4	2,923.43	3/4	2,565.39		
3		3		3		3	4,324.00	3	4,080.65	3	3,829.63	3	3,566.60	3	3,274.00	3	2,915.97	3	2,557.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,318.26	1/4	4,075.55	1/4	3,824.28	1/4	3,561.01	1/4	3,266.54	1/4	2,908.51	1/4	2,550.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,312.53	1/2	4,070.43	1/2	3,818.91	1/2	3,555.39	1/2	3,259.09	1/2	2,901.05	1/2	2,543.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,306.80	3/4	4,065.31	3/4	3,813.55	3/4	3,549.77	3/4	3,251.63	3/4	2,893.59	3/4	2,535.55		
4		4		4		4	4,301.06	4	4,060.19	4	3,808.18	4	3,544.15	4	3,244.17	4	2,886.13	4	2,528.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,295.33	1/4	4,055.07	1/4	3,802.81	1/4	3,538.52	1/4	3,236.71	1/4	2,878.67	1/4	2,520.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,290.44	1/2	4,049.93	1/2	3,797.42	1/2	3,532.89	1/2	3,229.25	1/2	2,871.21	1/2	2,513.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,285.55	3/4	4,044.79	3/4	3,792.03	3/4	3,527.25	3/4	3,221.79	3/4	2,863.75	3/4	2,505.72		
5		5		5		5	4,280.66	5	4,039.66	5	3,786.64	5	3,521.61	5	3,214.33	5	2,856.29	5	2,498.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,275.76	1/4	4,034.52	1/4	3,781.24	1/4	3,515.97	1/4	3,206.87	1/4	2,848.83	1/4	2,490.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,270.85	1/2	4,029.35	1/2	3,775.83	1/2	3,510.30	1/2	3,199.41	1/2	2,841.38	1/2	2,483.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,265.94	3/4	4,024.19	3/4	3,770.42	3/4	3,504.64	3/4	3,191.95	3/4	2,833.92	3/4	2,475.88		
6		6		6		6	4,261.03	6	4,019.03	6	3,765.01	6	3,498.98	6	3,184.49	6	2,826.46	6	2,468.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,256.13	1/4	4,013.87	1/4	3,759.60	1/4	3,493.32	1/4	3,177.04	1/4	2,819.00	1/4	2,460.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,251.19	1/2	4,008.69	1/2	3,754.17	1/2	3,487.64	1/2	3,169.58	1/2	2,811.54	1/2	2,453.50		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,246.26	3/4	4,003.50	3/4	3,748.74	3/4	3,481.95	3/4	3,162.12	3/4	2,804.08	3/4	2,446.04		
7		7		7		7	4,241.32	7	3,998.32	7	3,743.30	7	3,476.27	7	3,154.66	7	2,796.62	7	2,438.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,236.39	1/4	3,993.14	1/4	3,737.87	1/4	3,470.59	1/4	3,147.20	1/4	2,789.16	1/4	2,431.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,231.44	1/2	3,987.94	1/2	3,732.42	1/2	3,464.89	1/2	3,139.74	1/2	2,781.70	1/2	2,423.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,226.48	3/4	3,982.73	3/4	3,726.97	3/4	3,459.18	3/4	3,132.28	3/4	2,774.24	3/4	2,416.21		
8		8		8		8	4,221.53	8	3,977.53	8	3,721.51	8	3,453.48	8	3,124.82	8	2,766.78	8	2,408.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,216.58	1/4	3,972.32	1/4	3,716.06	1/4	3,447.77	1/4	3,117.36	1/4	2,759.33	1/4	2,401.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,211.60	1/2	3,967.10	1/2	3,710.58	1/2	3,442.05	1/2	3,109.90	1/2	2,751.87	1/2	2,393.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,206.63	3/4	3,961.88	3/4	3,705.11	3/4	3,436.33	3/4	3,102.44	3/4	2,744.41	3/4	2,386.37		
9		9		9		9	4,201.65	9	3,956.65	9	3,699.63	9	3,430.60	9	3,094.98	9	2,736.95	9	2,378.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.67	1/4	3,951.43	1/4	3,694.16	1/4	3,424.88	1/4	3,087.53	1/4	2,729.49	1/4	2,371.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,191.68	1/2	3,946.18	1/2	3,688.66	1/2	3,419.14	1/2	3,080.07	1/2	2,722.03	1/2	2,363.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,186.68	3/4	3,940.93	3/4	3,683.17	3/4	3,413.41	3/4	3,072.61	3/4	2,714.57	3/4	2,356.53		
10		10		10		10	4,181.69	10	3,935.69	10	3,677.67	10	3,407.67	10	3,065.15	10	2,707.11	10	2,349.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,176.70	1/4	3,930.44	1/4	3,672.18	1/4	3,401.94	1/4	3,057.69	1/4	2,699.65	1/4	2,341.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,171.68	1/2	3,925.17	1/2	3,666.66	1/2	3,396.20	1/2	3,050.23	1/2	2,692.19	1/2	2,334.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,166.66	3/4	3,919.91	3/4	3,661.14	3/4	3,390.47	3/4	3,042.77	3/4	2,684.73	3/4	2,326.70		
11		11		11		11	4,161.64	11	3,914.64	11	3,655.62	11	3,384.73	11	3,035.31	11	2,677.28	11	2,319.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.09	1/4	4,156.62	1/4	3,909.38	1/4	3,650.10	1/4	3,379.00	1/4	3,027.85	1/4	2,669.82	1/4	2,311.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,393.43	1/2	4,151.58	1/2	3,904.09	1/2	3,644.57	1/2	3,373.26	1/2	3,020.39	1/2	2,662.36	1/2	2,304.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,388.77	3/4	4,146.55	3/4	3,898.79	3/4	3,639.03	3/4	3,367.52	3/4	3,012.93	3/4	2,654.90	3/4	2,296.86

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  
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# BARGE "KIRBY 29103"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

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
1/4	2,281.94	1/4	1,923.91	1/4	1,565.87	1/4	1,207.83	1/4	850.09	1/4	492.15	1/4	134.12	1/4		1/4		1/4	
1/2	2,274.48	1/2	1,916.45	1/2	1,558.41	1/2	1,200.37	1/2	842.64	1/2	484.69	1/2	126.66	1/2		1/2		1/2	
3/4	2,267.02	3/4	1,908.99	3/4	1,550.95	3/4	1,192.91	3/4	835.19	3/4	477.23	3/4	119.20	3/4		3/4		3/4	
1	2,259.57	1	1,901.53	1	1,543.49	1	1,185.46	1	827.75	1	469.77	1	111.74	1		1		1	
1/4	2,252.11	1/4	1,894.07	1/4	1,536.03	1/4	1,178.00	1/4	820.30	1/4	462.31	1/4	104.28	1/4		1/4		1/4	
1/2	2,244.65	1/2	1,886.61	1/2	1,528.57	1/2	1,170.54	1/2	812.85	1/2	454.86	1/2	97.14	1/2		1/2		1/2	
3/4	2,237.19	3/4	1,879.15	3/4	1,521.11	3/4	1,163.08	3/4	805.40	3/4	447.40	3/4	90.00	3/4		3/4		3/4	
2	2,229.73	2	1,871.69	2	1,513.66	2	1,155.62	2	797.96	2	439.94	2	82.85	2		2		2	
1/4	2,222.27	1/4	1,864.23	1/4	1,506.20	1/4	1,148.16	1/4	790.51	1/4	432.48	1/4	75.71	1/4		1/4		1/4	
1/2	2,214.81	1/2	1,856.77	1/2	1,498.74	1/2	1,140.70	1/2	783.05	1/2	425.02	1/2	69.51	1/2		1/2		1/2	
3/4	2,207.35	3/4	1,849.32	3/4	1,491.28	3/4	1,133.24	3/4	775.59	3/4	417.56	3/4	63.31	3/4		3/4		3/4	
3	2,199.89	3	1,841.86	3	1,483.82	3	1,125.78	3	768.13	3	410.10	3	57.10	3		3		3	
1/4	2,192.43	1/4	1,834.40	1/4	1,476.36	1/4	1,118.32	1/4	760.67	1/4	402.64	1/4	50.90	1/4		1/4		1/4	
1/2	2,184.97	1/2	1,826.94	1/2	1,468.90	1/2	1,110.86	1/2	753.22	1/2	395.18	1/2	45.96	1/2		1/2		1/2	
3/4	2,177.52	3/4	1,819.48	3/4	1,461.44	3/4	1,103.41	3/4	745.76	3/4	387.72	3/4	41.01	3/4		3/4		3/4	
4	2,170.06	4	1,812.02	4	1,453.98	4	1,095.95	4	738.30	4	380.27	4	36.07	4		4		4	
1/4	2,162.60	1/4	1,804.56	1/4	1,446.52	1/4	1,088.49	1/4	730.84	1/4	372.81	1/4	31.12	1/4		1/4		1/4	
1/2	2,155.14	1/2	1,797.10	1/2	1,439.06	1/2	1,081.03	1/2	723.38	1/2	365.35	1/2	27.45	1/2		1/2		1/2	
3/4	2,147.68	3/4	1,789.64	3/4	1,431.61	3/4	1,073.57	3/4	715.92	3/4	357.89	3/4	23.77	3/4		3/4		3/4	
5	2,140.22	5	1,782.18	5	1,424.15	5	1,066.11	5	708.46	5	350.43	5	20.09	5		5		5	
1/4	2,132.76	1/4	1,774.72	1/4	1,416.69	1/4	1,058.65	1/4	701.00	1/4	342.97	1/4	16.41	1/4		1/4		1/4	
1/2	2,125.30	1/2	1,767.27	1/2	1,409.23	1/2	1,051.19	1/2	693.54	1/2	335.51	1/2		1/2		1/2		1/2	
3/4	2,117.84	3/4	1,759.81	3/4	1,401.77	3/4	1,043.73	3/4	686.08	3/4	328.05	3/4		3/4		3/4		3/4	
6	2,110.38	6	1,752.35	6	1,394.31	6	1,036.27	6	678.63	6	320.59	6		6		6		6	
1/4	2,102.92	1/4	1,744.89	1/4	1,386.85	1/4	1,028.81	1/4	671.17	1/4	313.13	1/4		1/4		1/4		1/4	
1/2	2,095.47	1/2	1,737.43	1/2	1,379.39	1/2	1,021.37	1/2	663.71	1/2	305.68	1/2		1/2		1/2		1/2	
3/4	2,088.01	3/4	1,729.97	3/4	1,371.93	3/4	1,013.92	3/4	656.25	3/4	298.22	3/4		3/4		3/4		3/4	
7	2,080.55	7	1,722.51	7	1,364.47	7	1,006.47	7	648.79	7	290.76	7		7		7		7	
1/4	2,073.09	1/4	1,715.05	1/4	1,357.01	1/4	999.03	1/4	641.33	1/4	283.30	1/4		1/4		1/4		1/4	
1/2	2,065.63	1/2	1,707.59	1/2	1,349.56	1/2	991.58	1/2	633.87	1/2	275.84	1/2		1/2		1/2		1/2	
3/4	2,058.17	3/4	1,700.13	3/4	1,342.10	3/4	984.13	3/4	626.41	3/4	268.38	3/4		3/4		3/4		3/4	
8	2,050.71	8	1,692.67	8	1,334.64	8	976.69	8	618.95	8	260.92	8		8		8		8	
1/4	2,043.25	1/4	1,685.22	1/4	1,327.18	1/4	969.24	1/4	611.49	1/4	253.46	1/4		1/4		1/4		1/4	
1/2	2,035.79	1/2	1,677.76	1/2	1,319.72	1/2	961.79	1/2	604.04	1/2	246.00	1/2		1/2		1/2		1/2	
3/4	2,028.33	3/4	1,670.30	3/4	1,312.26	3/4	954.34	3/4	596.58	3/4	238.54	3/4		3/4		3/4		3/4	
9	2,020.87	9	1,662.84	9	1,304.80	9	946.90	9	589.12	9	231.09	9		9		9		9	
1/4	2,013.42	1/4	1,655.38	1/4	1,297.34	1/4	939.45	1/4	581.66	1/4	223.63	1/4		1/4		1/4		1/4	
1/2	2,005.96	1/2	1,647.92	1/2	1,289.88	1/2	932.00	1/2	574.20	1/2	216.17	1/2		1/2		1/2		1/2	
3/4	1,998.50	3/4	1,640.46	3/4	1,282.42	3/4	924.56	3/4	566.74	3/4	208.71	3/4		3/4		3/4		3/4	
10	1,991.04	10	1,633.00	10	1,274.96	10	917.11	10	559.28	10	201.25	10		10		10		10	
1/4	1,983.58	1/4	1,625.54	1/4	1,267.51	1/4	909.66	1/4	551.82	1/4	193.79	1/4		1/4		1/4		1/4	
1/2	1,976.12	1/2	1,618.08	1/2	1,260.05	1/2	902.22	1/2	544.36	1/2	186.33	1/2		1/2		1/2		1/2	
3/4	1,968.66	3/4	1,610.62	3/4	1,252.59	3/4	894.77	3/4	536.90	3/4	178.87	3/4		3/4		3/4		3/4	
11	1,961.20	11	1,603.16	11	1,245.13	11	887.32	11	529.45	11	171.41	11		11		11		11	
1/4	1,953.74	1/4	1,595.71	1/4	1,237.67	1/4	879.87	1/4	521.99	1/4	163.95	1/4		1/4		1/4		1/4	
1/2	1,946.28	1/2	1,588.25	1/2	1,230.21	1/2	872.43	1/2	514.53	1/2	156.50	1/2		1/2		1/2		1/2	
3/4	1,938.82	3/4	1,580.79	3/4	1,222.75	3/4	864.98	3/4	507.07	3/4	149.04	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

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