



KIRBY INLAND MARINE, LP  
 MAINTENANCE DEPARTMENT  
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**VAPOR TIGHTNESS TEST**

Note: Test Results are Valid for (1) One Year from Date of Test!

Vessel Name: Kirby 28176 Test Date: 9/27/2011  
 Testing Location: Channelview Fleet Maximum Load Rate: (BPH) 5000  
 Tanks Tested: All Pressure Indicator: Test gauge

**TEST RESULTS**

Test Duration: 30 Minutes Beginning Pressure: 14 Inches H2O  
 Ending Pressure: 14 Inches H2O  
 Total Pressure Loss: 0 Inches H2O  
 Allowable Pressure Loss: 2.29 Inches H2O

**Barge is Vapor Tight if "Total Pressure Loss" is LESS than "Allowable Pressure Loss"**  
 This vessel has been tested in accordance with Section 61.304F and has been found to be vapor tight.

Alex Wilburn  
 Tester: (Print)

Jake Francis  
 Witness: (Print)

[Signature]  
 Tester: (Signature)

[Signature]  
 Witness: (Signature)

KIRBY  
 Affiliation of Witness:

- (P1) - Beginning Pressure
- (P2) - Ending Pressure
- (Delta P) - Total Pressure Loss
- (Delta PM) - Allowable Pressure Loss
- (TP) - 14.7 plus Barge Test Pressure in PSI
- (L) - Maximum Load Rate in BPH
- (V) - Volume of Tank (s)
- (Delta T) = Test Duration
- .861 - PIA @ (P1)

$$.861 \times \frac{15.2}{(TP)} \times \left( \frac{5000}{(L)} \right) \frac{1}{28500} \frac{1}{(V)} = \frac{2.29}{(\text{Delta PM})}$$