

June 5, 2010

Patricia Bosler  
Utility Foreman  
City of Humboldt  
Post Office Box 228  
Humboldt, Ks 66748

Dear Patricia,

Kansas Rural Water Association typically provides follow-up documentation on many of the tech assistance calls the Association does. This is a follow up letter to the master meter testing conducted for the City of Humboldt.

**Meter: Neptune-2-inch T-10; SN: 60089137; Dated: Feb 1997; Location: Sales to Allen RWD 10**

Test Number	Test Flow rate gallons per min.	Meter Volume (entity's meter)	Tester Volume (KRWA's tester)	Entity's meter accuracy (compared to KRWA)	(flow curve adjustment) on test meter	Adjusted Accuracy
1	2	50	50.54	98.9%	100.8%	99.7%
2	15	50	50.12	99.8%	99.8%	99.6%
3	100	500	538	92.9%	99.6%	92.6%

The industry standard for the Neptune 2-inch T-10 type of meter used to register water sales to Allen RWD 10 is to register within an operating range of 95% to 101% at the minimum flow rates and operate within a range of 98.5% to 101.5% at all other tested flow rates. Under these standards, the meter failed the high flow test conducted on it by under registering by 7.4%.

There is no way of determining when this meter started to under register. It could have been two years ago or it could have been two days ago. A review of the billing may show some insight into this.

Again, thank you for the opportunity to provide this assistance to the city.

Please feel free to contact Kansas Rural Water Association or me if we can be of any further assistance. Also visit the KRWA website at [www.krwa.net](http://www.krwa.net) for news and information concerning water and wastewater utilities, upcoming training opportunities and other KRWA programs.

Sincerely,

Gary Armentrout  
ARRA Circuit Rider

C: Larry Tucker; City Administrator  
Jean Flores, City Clerk  
Bob Knapp, Operator , Allen 10