

## Morningstar Water Supply

During my inspection of the distribution system of Morningstar Water Supply these are the things I have found that will need attention. This was a fast paced inspection, as I was not afforded the time I need to do a complete and thorough inspection. So I sure as we repair what I've found there will be other things that we find along the way, as I come up with them I will amend this report.

1. There are four fire hydrants that are inoperable;  
6 road 5582 – ran over, line is broke underground and turned off at valve.  
69 road 3323 – ran over, this one we need to advise the courts of, driver was arrested and ordered to pay for repairs.  
24 road 5582 – run over, we will need to replace this entire hydrant. The case is split all the way up.  
25 road 3775 – this hydrant is at least 60 years old, has no caps and I haven't found any thing to fit it yet,. Plus the main pin is froze up tight.
2. Valve's;  
At 3777 and 3782 the main feed to the tank, 12" line. This valve could be crucial in an emergency, but its in the road and gets buried with road maintenance. We need to locate, dig out and pour concrete around this valve box to protect it and make it user friendly. This is also in county code of how valves should be set in the roadway. There are more valves in roadways but I will need to locate them in order to assess them. *One other valve is operable and will be replaced.*
3. Dead end lines;  
There are many dead end lines in this system, on road 3775 it extends a ¼ mile past the last hydrant. With no way to flush this line it regularly causes customer complaints. I have been pulling meters out and flushing at them, but time is not always on my side to get this accomplished. We need to set a flush hydrant here and in several other locations.
4. Road 5575 in the wash is a 3" transmission line. This line washes out in every rain event. We need to either go real deep inside a sleeve or go above and swing the line with insulation and shell protection from vandalism.
5. Storage tanks/facilities;  
We need to repair ALL of the floats or gauges on our tanks. We need to see at a glance what is in them our best guess is not working.  
The 3 million gallan tank needs a cage around the ladder. This is mandated by OSHA.  
They all need ladders extended to the ground with a hinged door that is lockable to prevent unauthorized access.

6. **Dedicated sample sites;**  
We need to install dedicated sampling sites at the meters, where we can plug in and pull a sample without going through yards, dogs or making appointments for such. They are expensive but we can build them ourselves for less than half price.
  
7. **Commercial meter cans;**  
These need to be updated. They are made of culvert with steel lids, some don't even hinge. They are big, heavy and dangerous. And jumping into a 6" or deeper pit is only half the problem. Now get back out. Ladder?
  
8. **Safety equipment;**  
We need road signs, cones, flags lights that work on our trucks. This is for our safety as well as the public.
  
9. **With San Juan county's new , much stricter, roadways work rules. It would be in our best interest to find a good jumping jack tamper, gas powered cut-off saw, street signs and cones. We should keep the orange safety fence on hand with a bundle of T-posts. It's the way they are going with this and we need to get on board.**
  
10. **Here is the last but in my mind the most important of all. It is the reason we are so behind in everything we do. With the operation of two separate systems, over 75 miles of line in the ground, four storage tanks, ONE TRUCK and ONE OPERATOR. Jose is usually busy with the treatment plants. We need to hire some help. some days its real difficult to get everything done, for example. The county kicks off a new phase of work in the area. It's nothing for them to send over 25 one calls at once, this is an easy three days of work, still have all the paperwork, customer's need attention, keep the office in a good mood, meter reader has an issue and I still gotta get samples to the lab and keep moving on the sanctions and punishments handed down by NMED. So, no lunch, no dinner and at sunset my wife is worried sick.**