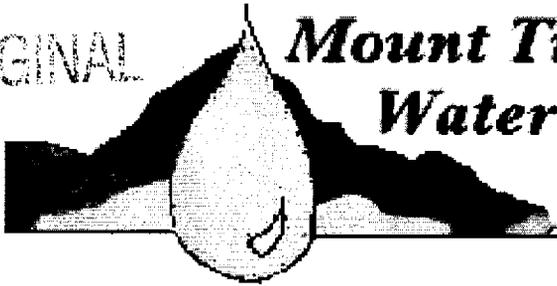


ORIGINAL



Mount Tipton Water Co, inc.



0000104013

P.O. Box 38
15996 Ironwood Drive,
Dolan Springs, AZ 86441
928-767-3713 Fax: 928-767-3053
Tiptonwater@Frontiernet.net

October 14, 2009

Compliance Division
Arizona Corporation Commission
1200 West Washington St.
Phoenix, AZ 85007

RE: Emergency Rate Surcharge Docket
W-02105A-07-0510 Decision 70837

Here is the ADEQ compliance report due for last month. Attached is a copy of the original inspection report from their visit in July of 2008. You will also see the field notes in the margin showing that most of these items have already been completed. We are anticipating another inspection by ADEQ in December which will show that we are very close to being in compliance. We look forward to providing you with this new report as soon as we receive it.

Any additional information you need, please contact me anytime, 928-715-6422.

Thank you very much,

Tim Clark
Field Manager
Mt. Tipton Water Company

Arizona Corporation Commission

DOCKETED

OCT 19 2009

DOCKETED BY	
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AZ CORPORATION COMMISSION
DOCKET CONTROL

2009 OCT 19 A 11: 21

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P.O. Box 38
15996 Ironwood Drive,
Dolan Springs, AZ 86441
928-767-3713 Fax: 928-767-3053
Tiptonwater@Frontiernet.net

October 15, 2009

Compliance Division
Arizona Corporation Commission
1200 West Washington St.
Phoenix, AZ 85007

RE: Emergency Rate Surcharge Docket
W-02105A-07-0510 Decision 70837

Mt. Tipton Water Company has been working on the following compliance items for the ADEQ. In the past month we have identified a problem with the PRV (pressure relief valve) on 9th St. The bottom brass seat was non-operational and the pressure was building at night to a critical point. This had caused several line breaks below this PRV all the way down to the 7th St. PRV. I was able to rebuild the old one in the shop and replace it. This dropped the pressure by 120 pounds in the lower section.

We also identified and repaired one leak in our system on south Mariposa St. at the blow off valve. I believe this was leaking about a gallon a minute or better into a sandy wash and was not visible.

The above applies to Item #9 under "Distribution System and Overall Water Loss," in reference to ADEQ report Inspection ID # 123663.

We also did a massive amount of dirt work at the number 8 horizontal well and the non-registered well. There is now proper drainage from both of these wells, and the area around the number eight well is cleared for the fence that is to be installed later this year. This will ensure that animals cannot gain access to the area and possibly contaminate the well.

The above applies to Item #6 under "Wells," in reference to ADEQ report Inspection ID # 123663.

Thank you very much,

A handwritten signature in black ink, appearing to read "Tim Clark", written over a horizontal line.

Tim Clark
Field Manager
Mt. Tipton Water Company

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Northern Regional Office
1801 West Route 66, Suite 117, Flagstaff, Arizona 86001

INSPECTION REPORT

Facility: Mt. Tipton W. C.	System # 08-059
Inspected By: A. T. Wilson	Date: 7/09/08 IID:123663
Accompanied By: Bob Martinez-MCHD, Frank Soto-ASUA, John Janak, others	County: Mohave
Recommendations By: A. Wilson	Report Date: 8/19/08
Number of Plants: 0	Wells: 9
Population: 3900	Service Connections: 898

COMPLIANCE SUMMARY

The water system is in compliance with the following ADEQ requirements:

	YES	NO	N/A	N/E
Certified Operator (System Grade)	x			
Physical Facilities		x		
Monitoring and Reporting		x		

INSPECTION SUMMARY

The survey of the above referenced facility included:

An inspection of the physical facilities	X
Interview with personnel	X
A review of ADEQ monitoring and reporting databases	X
A review of the NRO files	X
A review of files at the facility	

The following observations and recommendations were based upon the criteria checked above:

Major Deficiencies:

Monitoring and Reporting:

1. The system currently has four unresolved monitoring and reporting violations; see the attachment. Contact the ADEQ Water Quality Compliance Data Unit at 1110 W. Washington, Phoenix, 85007, to resolve these items. Please copy the NRO with all related correspondence.

Wells:

- 4 2. ADEQ requests that the system repair and seal the direct openings into well number 1. Extra silicone sealant should be added to well # 2, 3 and 6

-
3. ADEQ requests that you remove the galvanized pipe and fittings from well number 1. This also applies to any other well, within the system, with galvanized pipe on the surface. This is a repeat violation.

4. In order to reduce the current level of water loss and stop the erosion around both the building base and the discharge line; ADEQ requests that you replace the auto sensor on well number 6 to prevent excess water from overflowing the storage tanks at night.

5. ADEQ requests that you repair the leak at the center well head on well number 8.

6. There is currently no security of any type at the well site for well # 9B. Consequently, ADEQ requests that you secure the well site for well # 9B; preferably with a fence that meets ADEQ Engineering Bulletin # 10 standards.

7. ADEQ has no records of either source approval sampling or Approval of Construction for any of the wells on the system. The Department requests that you furnish the ADWR well permit, well number, ADEQ source approval data and Construction Certification for each well on the system.

There is a possibility that the posted number for well # 8 actually belongs to well number 9B. Well number 9B is not listed on the system in our database, however, it is connected into the system. ADEQ requests that you furnish the same documentation for this well.

8. The well identified as "non-potable" located within the well # 8 yard is plumbed into the delivery system and was formerly used in the system. It is temporarily valved off to flow to the non-potable tanks. ADEQ practice requires that all wells which are physically connected to the system be treated as if they are in use. ADEQ requests that the water company supply the same data requested in item # 4 for this well. Additionally, supply construction data including well depth and casing screen depth.

9. Due to the location and form of these three wells (8, 9B and Non-potable) and the conditions identified in AAC R18-4-301.01 they are probably ground water under the influence of surface water (GWUI); as such they are required to be treated as surface water.

ADEQ requests that the company's Engineer conduct an MPA test and other testing which may be needed to determine whether the wells are actually GWUI or can be classified as true groundwater. If the testing determines that the sources are in fact GWUI the Engineer must submit plans for the required water treatment plant to the Drinking Water Plan Review Unit at 1100 W. Washington St., Phx., 85007 for an Approval to Construct.

Once that Approval is issued, the plant must be constructed and As-Built Plans with required closure documentation including all

Kevin
is looking
for #8

not LWR

not done
#10
to done

testing data, disinfection data and an Engineer's certificate of Completion. The documentation must be submitted to the NRO Plan Review Unit in Flagstaff for an Approval of Construction before the plant can be placed into operation.

Tanks:

10. Downtown (Kevin's tanks); the black plastic tanks require cleaning as they have some sort of residue coating the insides of the tanks. The access portals need to be locked. The metal tank is leaking and near failure due to corrosion. It requires either extensive repair or replacement, preferably with a larger tank. NOT

11. The transfer pump which feeds the primary storage tank for well # 5 is leaking. This condition prevents the pump from operating at its required level of efficiency. This in turn delays the sites capability to resupply the system; particularly during high demand periods. The pump requires repair or replacement. NOT DONE

12. The storage tank base for well # 5 is failing due to loss of the steel base retention ring. ADEQ requests that the ring be repaired or replaced and the lost base fill be replaced. is not done make installed

13. Mid Range Tanks; ADEQ requests that you repair the eroded tank bedding and broken bedding ring here also.

EPDS':

14. The actual EPDS' for this system are located at the discharge lines from the storage tanks. These will be at the well # 5 storage tank, Kevin's tanks, Dolan tanks, mid range tanks and the upper range tanks. ADEQ requests that the required sampling taps be installed on each actual EPDS which does not already have a tap. NOT DONE

*Tap =
- opening
- chamber
- 11 feet
- tank*

Booster / Transfer Stations:

15. ADEQ requests that you repair or replace the valve packing in the leaking pump in booster station number 1. The leak is reducing the pump efficiency and contributes to the inability of the system to meet supply requirements during periods of high demand. It also contributes to the probability that the pump will fail.

7
Approved

16. ADEQ requests that you repair or replace the out of service booster pump at the Mid-Range booster station. The out of service pump reduces the system's ability to meet demand. Both pumps at this site are substandard for need and should be upgraded to higher capacity pumps in order to be able to refill the upper range tanks in a more expeditious period of time. 4 to 5 days to refill these tanks, even with aid from the interconnect pumps is too long a period.

new pump
over pump

17. System Interconnect; As originally constructed the connection consists of 3 inch piping and two limited capacity transfer pumps (Kevin's Station pumps). The pumps are over 40 years old and due to system growth, are now undersized for the current resupply capacity needed and the 3 inch line lacks the carrying capacity as illustrated by the systems inability, in conjunction with the mid-range booster station, to resupply the upper range tanks. ADEQ requests that the pumps in question be upgraded and the interconnect piping be increased in diameter to a size capable of handling the resupply demand.

No
funding

Standpipes:

✓ 18. Downtown standpipe;

A. ADEQ requests that a constructed air gap meeting Bulletin # 10 standards be installed in the standpipe.

B. ADEQ requests that all galvanized piping be removed from the station.

Done →

19. Detridal (Well # 4); Although owned by the system, it is not currently plumbed into the system. Consequently it actually constitutes a separate, independent, water system. However the well acts as a source of hauled water when needed to supplement water shortages for the Mt. Tipton system.

The well will be designated by the Department as its own system Please submit copies of all source approval sampling, well and site plans and required plan review applications to the Departments Plan Review Unit in Phoenix for an Approval to construct.

As soon as this approval is received, submit the AS-Built plans and required closure documentation to the NRO for an Approval of construction.

ADEQ recommends that prior to submittal of the plans, a constructed air gap be added top the standpipe and all galvanized pipe be removed from the site. These changes should be noted in the plans.

Minor Deficiencies:

Wells;

1. As the site is completely lacking in security, ADEQ requests that the system complete the fence around well # 7 and the storage tanks at Kevin's yard.

Done →

Booster / Transfer Stations:

2. Kevins tanks; ADEQ requests that the eroded "pit" at the discharge line from the booster station structure be back filled to protect the piping. The leaking roof for this structure is causing electrical problems with the transfer pumps and must be repaired to prevent further damage. The pumps are worn and one or both of the pumps themselves are frequently out of service and need replacement. (See item # 17.) ADEQ requests that the pumps be replaced and upgraded.

Done

Done

- will be replaced as

sup data & Murray

Done

20. ADEQ requests that the failed pump located at the Mid range transfer station be repaired and when possible both pumps should be upgraded to higher capacity pumps.

2 pumps repaired

Tanks:

4. ADEQ requests that you replace the missing block and repair the tank bedding on the mid-range tanks.

Done

DO/AN

5. ADEQ requests that the tank access ladder on the same tanks be secured.

NOT DONE

6. ADEQ requests that the visual water level gauge scale on the Older upper range tank be replaced or repainted.

NOT DONE

7. ADEQ also requests that the bedding on the older upper range tank be repaired.

NOT DONE

Cleaning bill with old vehicles not possible. We are working on it

8. ADEQ requests that the base ring for the storage tank for well # 5 be repaired and the lost fill be replaced.

The water flow meter for this well is not functioning, without the meter the well flow cannot be measured, ADEQ requests that the meter be repaired or replaced.

Done

Distribution System:

9. A portion of the overall water loss is due to leaks in the distribution system, some of these leaks are known. ADEQ requests that all locatable leaks be repaired and lines replaced as necessary.

Inspection Recommendations:

1. The system has experienced several recent water outages due to ageing equipment or substandard water line failure and the inadequate interconnection between the Dolan system and the Mount Tipton system.. ADEQ requests that the company conducts a survey of the system and determine which equipment and lines require replacement or upgrading. Particularly, the survey should locate and mark all existing valves within the distribution system which cannot now be located. Those valves which have failed should be replaced.

Delivery mains in the distribution system vary from 1.5 inches to 6 inches in diameter. Many of the old lines are very long and are "dead-end" lines that require extra maintenance and result in monthly water loss. Consideration should be given to replacing the small diameter mains and looping as many of the mains as possible to enhance efficiency of delivery and reduce maintenance.

According to the data submitted to the Department by the system, within the last 12 months the system has "lost" over 12 million gallons of water due to leaks and faulty service meters.

The replacement of these meters should be a priority as the additional income from the recovered loss through the meters will help alleviate the financial shortfalls that the system is experiencing.

The construction of the surface water treatment plant (if required) should enable the system to bring the "non-potable" well back on line..

check
The survey information should be used to help develop a Master Plan for the system. This plan should be developed under the supervision of a Professional Engineer registered in the State of Arizona. It should indicate current conditions and make proposals for future developments to bring the system into compliance with professional engineering standards and all current Departmental Rules. It should also develop requirements and feasibility of bring the Detritial Well (# 4) into the system.

check
2. ADEQ requests that all exposed PVC pipe in the system should be wrapped or painted to protect it from UV exposure.

check
3. ADEQ requests that you secure the electrical controls for the wells and the booster stations. This request also applies to all other sites on the system. This is necessary to protect the controls from tampering or other vandalism.

Done
4. ADEQ requests that all access hatches on all storage tanks be sealed with appropriate air and insect tight seals. The access ports for the visual gauge cables and any electronic cable ports also should be sealed.

Done
5. ADEQ requests that all overflow lines from the storage tanks be sealed with either 16 gauge screen, or flapper valves to prevent insect intrusion into the tanks.

No funding
6. Cumulative grading of the drainage surface from Pierce Ferry Road Has apparently resulted in lowering of the ground level over the buried mains that parallel the road. Vibration and weight transfer from the heavy bus and truck load now on the road is resulting in line failure in these mains.

ADEQ requests that as part of the Master Plan, the lines be relocated, placed into deeper trenches and buffered against further wear from road traffic.

G/AS TUBE CLEANED

7. ADEQ requests ~~that the~~ site gauge on the pressure tank for well number 5 be repaired or replaced.

No funding
8. The original plans for well # 5 called for a 60,000 gallon storage tank. A 10,000 gallon tank was installed instead. This storage capacity is proving inadequate to system needs. ADEQ requests that the storage tank be upgraded to the planned 60,000 gallon tank.

DONE
9. ADEQ requests that you rotate the well vents on well # 1 and # 3 so that the vent opening is not vulnerable to weather events (rain; etc.). This requirement also applies to those other sites with the same problem.

DONE
10. ADEQ requests that you remove the corrosion or replace the sampling tap for well # 1.

DONE
11. ADEQ requests that you replace the $\frac{3}{4}$ inch threaded pipe nipple on well number 2 as the existing one is loose.

DONE
12. ADEQ requests that the sampling tap for well # 3 be replaced.

DONE
13. ADEQ requests that you repair or replace the meter on the discharge line for well # 5.

Not DONE
14. ADEQ requests that Chlorine injector valves be installed on the discharge line from each well and that a portable standby chlorinator and chemicals be purchased to be used when needed.

Facility Response Guidelines:

- 1) Within 30 days please bring to the attention of ADEQ any determinations you believe are in error.

- 2) Major Deficiencies are subject to a Notice of Violation (NOV), whereas Minor Deficiencies are subject to a Notice of Opportunity to Correct (NOC). Inspection recommendations may be implemented at the discretion of the facility in order to improve system operation. NOC's may be escalated to NOV's, where it is judged to be appropriate, such as, but not limited to, situations where repeated violations have occurred or it is deemed necessary for public health.

SYSTEM DESCRIPTION:

This community system consists of 9 wells, at least two of which are spring wells, 10 storage tanks of assorted size, 2 pressure tanks, 4 booster / transfer stations and a 3 pressure zone distribution system.