

January 18, 2013

Jimmy Weaver  
PO Box 0158  
Italy, TX 76651-0158



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Weaver:

The City of Italy adopted an Ordinance No. 10-1108-02, the purpose of which is to protect the City's water supply from contamination or pollution due to plumbing cross-connection or backflow, pursuant to Texas Administration Code, Title 30, Part 1, Chapter 290, Subchapter D, and in particular, Sections 290.44 & 290.46.

According to the Public Works records, this address is required to have a backflow prevention device installed and tested on an annual basis.

Per Ordinance No 10-1108-02 Article II, Section 2.12 Testing of Assemblies (4) It is the responsibility of the property owner and the person in control of the premises to have all backflow prevention assemblies tested in accordance with this ordinance.

Per Ordinance No. 10-1108-02 Article V, Section 5.01 (1) A person who violates any provision of this Ordinance by performing an act prohibited or failing to perform an act required is guilty of a misdemeanor; each day the violation continues shall be a separate offense. Also be advised that the City has the right to suspend service to any premises without prior notice.

This is a service that the City of Italy can provide for a minimal fee of \$75. You may contact the Backflow Assembly Contractor of your choice, however this contractor must register with the City.

Please consider this official notice that the backflow testing requirement is past due and must be submitted to the City no later than February 7, 2013. After this date, further action will be taken by the City, which may include a citation being issued by the code enforcement division.

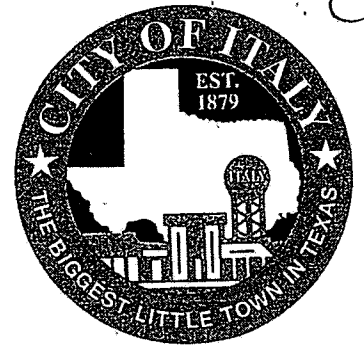
If you have any questions, concerns, or for a copy of this ordinance please do not hesitate to contact City Hall at 972-483-7329 X 0 or Dean Carrell, Public Works Director at 972-483-6212.

Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Tommy Davis  
PO Box 0882  
Italy, TX 76651-0882



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Davis:

The City of Italy adopted an Ordinance No. 10-1108-02, the purpose of which is to protect the City's water supply from contamination or pollution due to plumbing cross-connection or backflow, pursuant to Texas Administration Code, Title 30, Part 1, Chapter 290, Subchapter D, and in particular, Sections 290.44 & 290.46.

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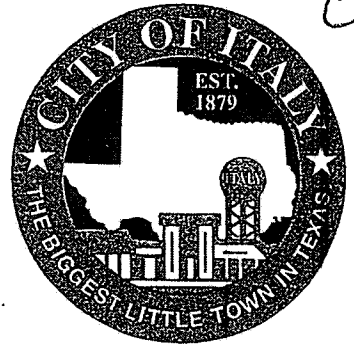
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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Italy Family Medicine  
PO Box 0539  
Italy, TX 76651-0539



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Sir/Madam

The City of Italy adopted an Ordinance No. 10-1108-02, the purpose of which is to protect the City's water supply from contamination or pollution due to plumbing cross-connection or backflow, pursuant to Texas Administration Code, Title 30, Part 1, Chapter 290, Subchapter D, and in particular, Sections 290.44 & 290.46.

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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Craig Rudolph  
225 Lakeshore Dr.  
Waxahachie, TX 75165-6803



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Rudolph:

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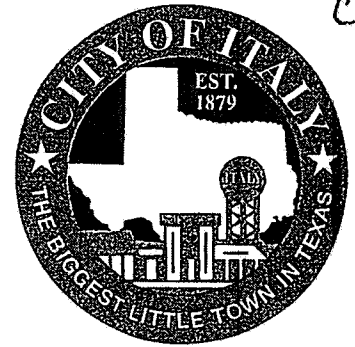
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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Kristen Bouchard  
11 Ridgewood Dr  
Trophy Club, TX 76262-3404



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Ms. Bouchard:

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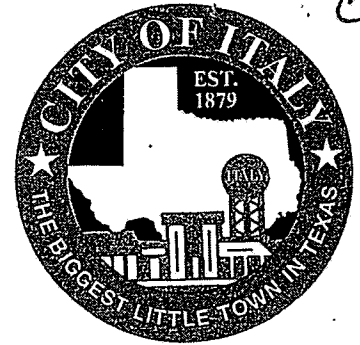
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Sincerely,

Dean Carrell  
Public Works Director January 18, 2013

January 18, 2013

Dunlap Library  
PO Box 0390  
Italy, TX 76651-0390



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Ms. French:

The City of Italy adopted an Ordinance No. 10-1108-02, the purpose of which is to protect the City's water supply from contamination or pollution due to plumbing cross-connection or backflow, pursuant to Texas Administration Code, Title 30, Part 1, Chapter 290, Subchapter D, and in particular, Sections 290.44 & 290.46.

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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Kevin Muller  
320 S Ward  
Italy, TX 76651-3774



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Muller:

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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

Celest Carroll  
PO Box 0888  
Italy, TX 76651-0888



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Ms. Carroll:

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Sincerely,

Dean Carrell  
Public Works Director



January 18, 2013

Browder Tatum  
313 S Ward  
Italy, TX 76651-3580



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Tatum:

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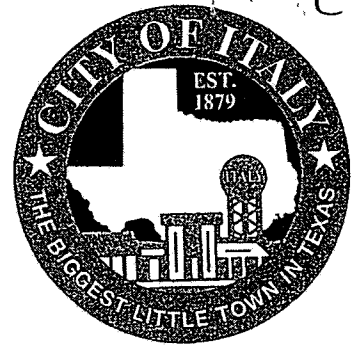
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Sincerely,

Dean Carrell  
Public Works Director

January 18, 2013

David Jenkins  
901 Martin  
Italy, TX 76651-3858



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Jenkins:

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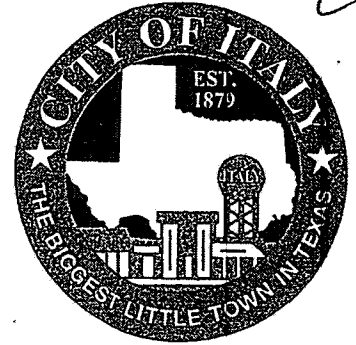
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Dean Carrell  
Public Works Director

January 18, 2013

Kenda Clark  
717 Rhonda  
Italy, TX 76651-3535



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

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Sincerely,

Dean Carrell  
Public Works Director



# BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

Following form must be completed for each assembly tested. A signed and dated original must be submitted to the public water suppliers for record keeping purposes.

## BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

NAME OF PWS: CITY OF ITALY  
PWS I.D.# 0700028  
MAILING ADDRESS: PO BOX 0840, ITALY, TX 76651-0840  
CONTACT PERSON: Robert Bull  
LOCATION OF SERVICE: TRINITY MISSION HEALTH @ REHAB of ITALY

The backflow prevention assembly detailed below has been tested and maintained as required by commission regulations and is certified to be operating within acceptable parameters.

### TYPE OF ASSEMBLY

- ☒ Reduced Pressure Principle
- ☐ Double Check Valve
- ☐ Pressure Vacuum Breaker
- ☐ Reduced Pressure Principal-Detector
- ☐ Double Check-Detector
- ☐ Spill-Resistant Pressure Vacuum Breaker

Manufacturer WATTS Size 2"  
Model Number 009MSOT RP Located At RISER ROOM NEXT TO KITCHEN  
Serial Number 1B1696

Is the assembly installed in accordance with manufacturer recommendations and/or local codes?

	Reduced Pressure Principal Assembly			Pressure Vacuum Breaker	
	Double Check Valve Assembly		Relief Valve	Air Inlet	Check Valve
	1st Check	2nd Check			
Initial Test	Held at <u>8.2</u> psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Held at <u>8.0</u> psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Opened at <u>2.4</u> psid Did Not Open <input type="checkbox"/>	Opened at _____ psid Did Not Open <input type="checkbox"/>	Held at _____ psid Leaked <input type="checkbox"/>
Repairs and Materials Used					
Test After Repair	Held at _____ psid Closed Tight <input type="checkbox"/>	Held at _____ psid Closed Tight <input type="checkbox"/>	Opened at _____ psid	Opened at _____ psid	Held at _____ psid

Tested gauge used: Make/Model Com BRACO 40-200 SN: 249631 TK Calibration Date: 3-29-12

Remarks: \_\_\_\_\_

The above is certified to be true at the time of testing.

Firm Name BERRYMAN FIRE Certified Tester RODNEY MILLER  
Address 442 W CENTER DUN TX 75116 Cert. Tester No BP0014459  
Firm Phone # 214-331-0660 Date 1-2-13

\* TEST RECORDS MUST BE KEPT FOR AT LEAST THREE YEARS  
\*\*USE ONLY MANUFACTURER'S REPLACEMENT PARTS

January 18, 2013

Charles Hyles  
PO Box 0627  
Italy, TX 76651-0627



RE: CROSS CONNECTION/BACKFLOW PREVENTION ASSEMBLY  
PER ORDINANCE NO. 10-1108-02

Dear Mr. Hyles:

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Sincerely,

Dean Carrell  
Public Works Director



K W UTILITIES  
 4793 FM 639  
 FROST, TEXAS 76641  
 2546781129/fax2546789071  
 kwmeters@myway.com

# Invoice

DATE	INVOICE #
1/16/2013	8139

BILL TO	SHIP TO
ITALY, City of 101 W Main St PO Box 840 ITALY, TEXAS 76651	water dept.  attn: Dean C

DUE DATE	P.O. NUMBER
2/4/2013	DEAN

QUANTITY	DESCRIPTION	SHIPPED	PRICE EACH	AMOUNT
1	On Site Well #1	1		75.00
1	Clean Meter Head	1		75.00
1	Well #2 In Shop Meter Head Repair	1		175.00
1	Parts Installed	1		25.00
1	seperator Shaft	1		0.00
1	Vertical Shaft Bearing	1		
Thank you for your business!		<b>Total</b>		350.00



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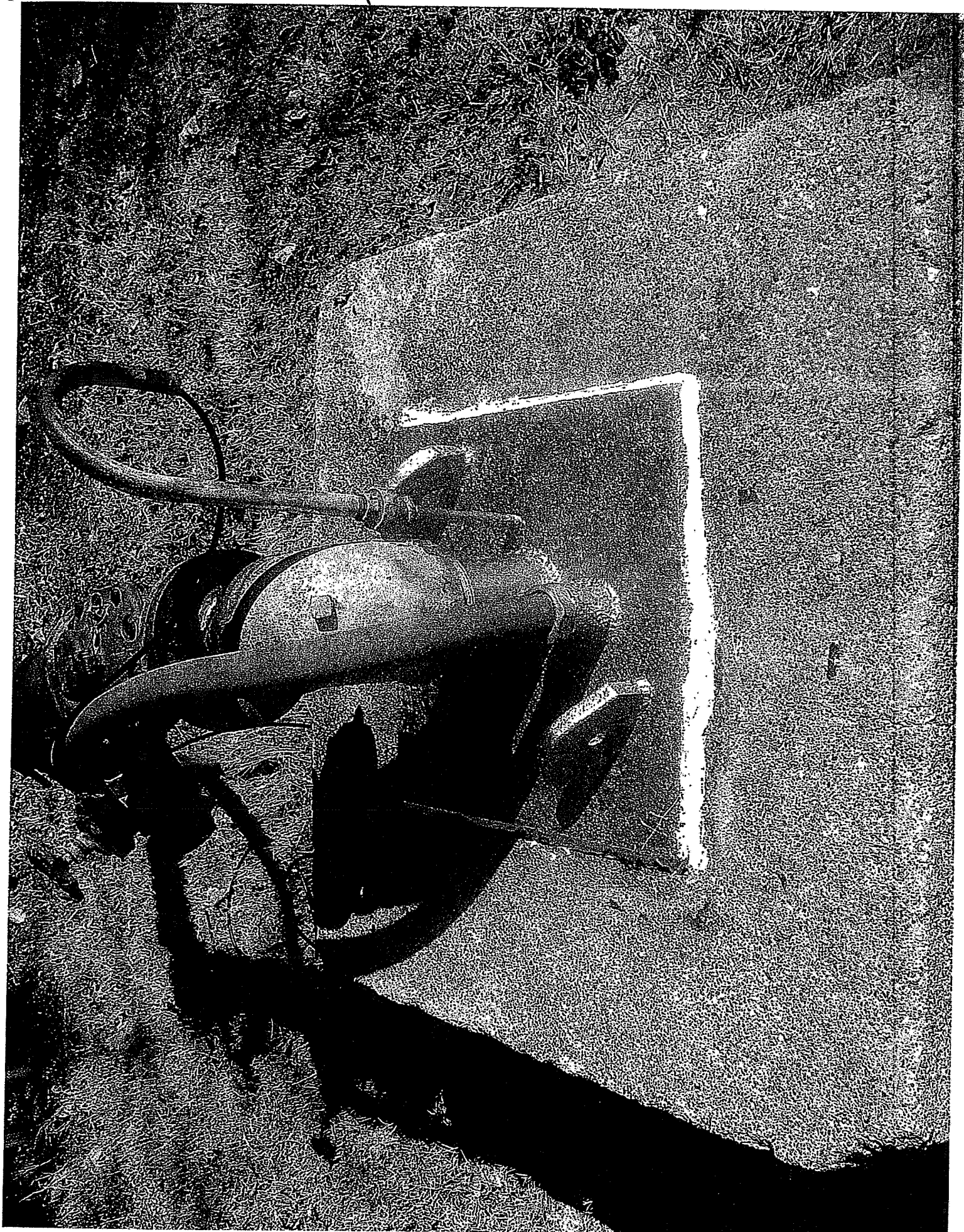
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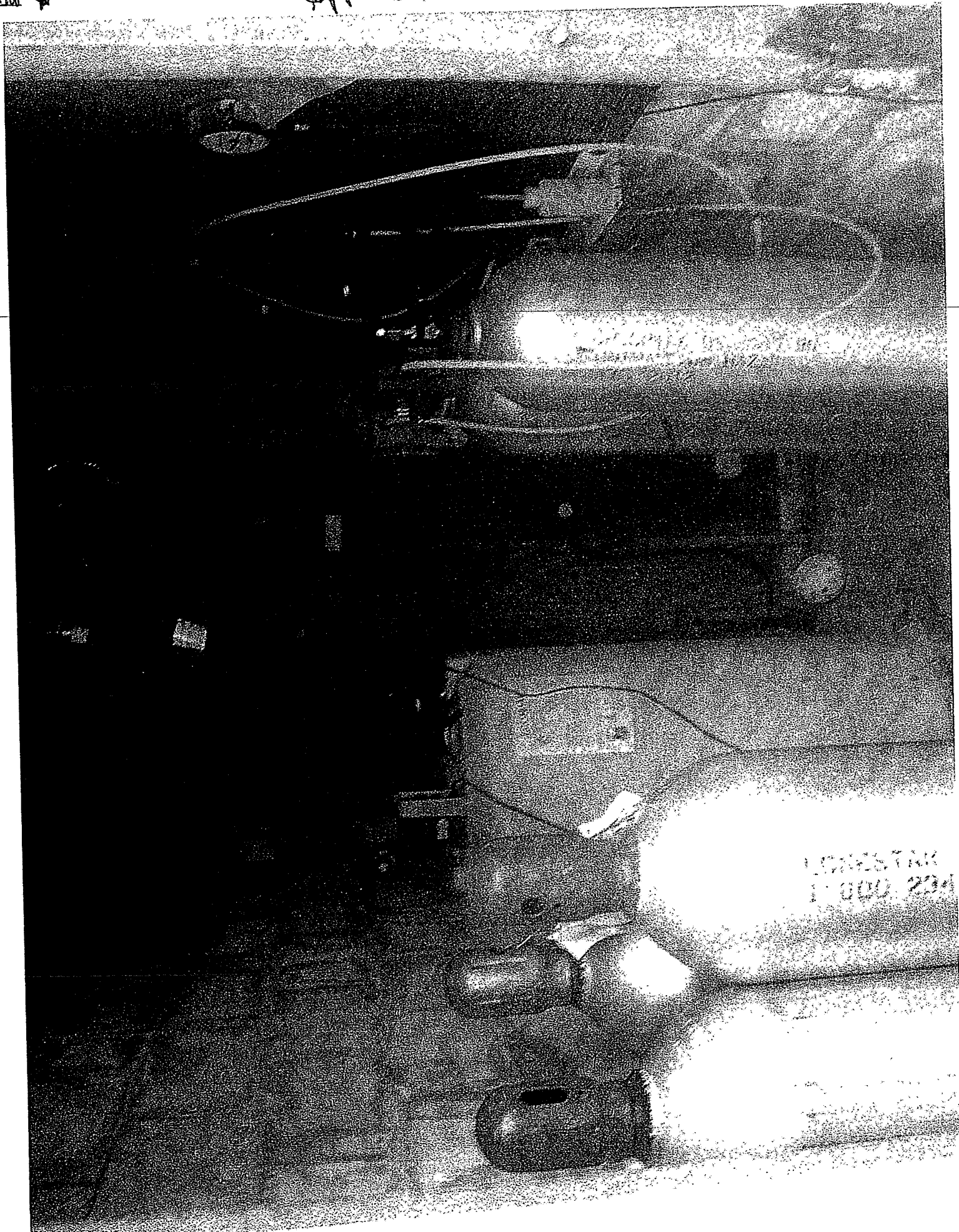
Appendix 1



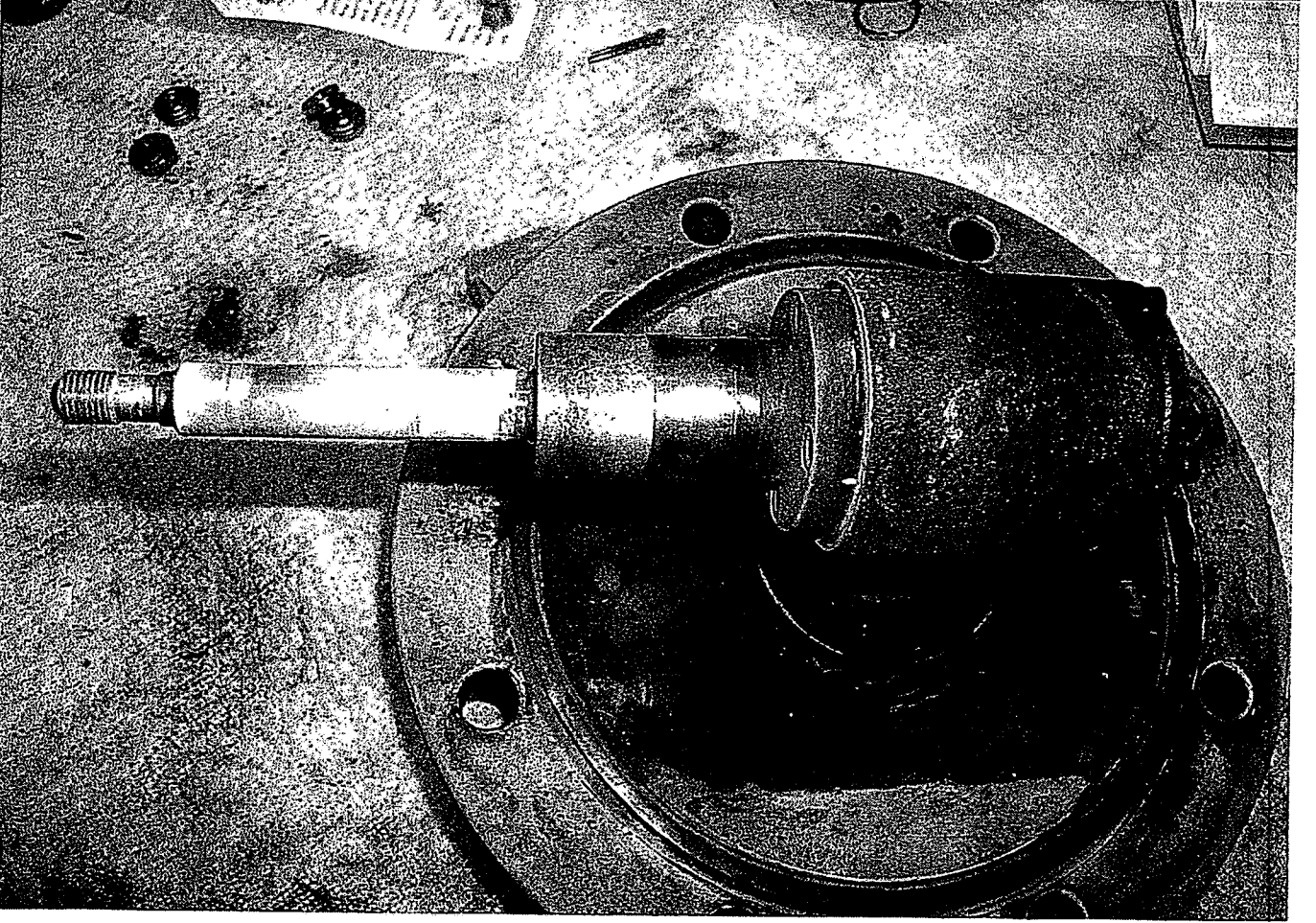
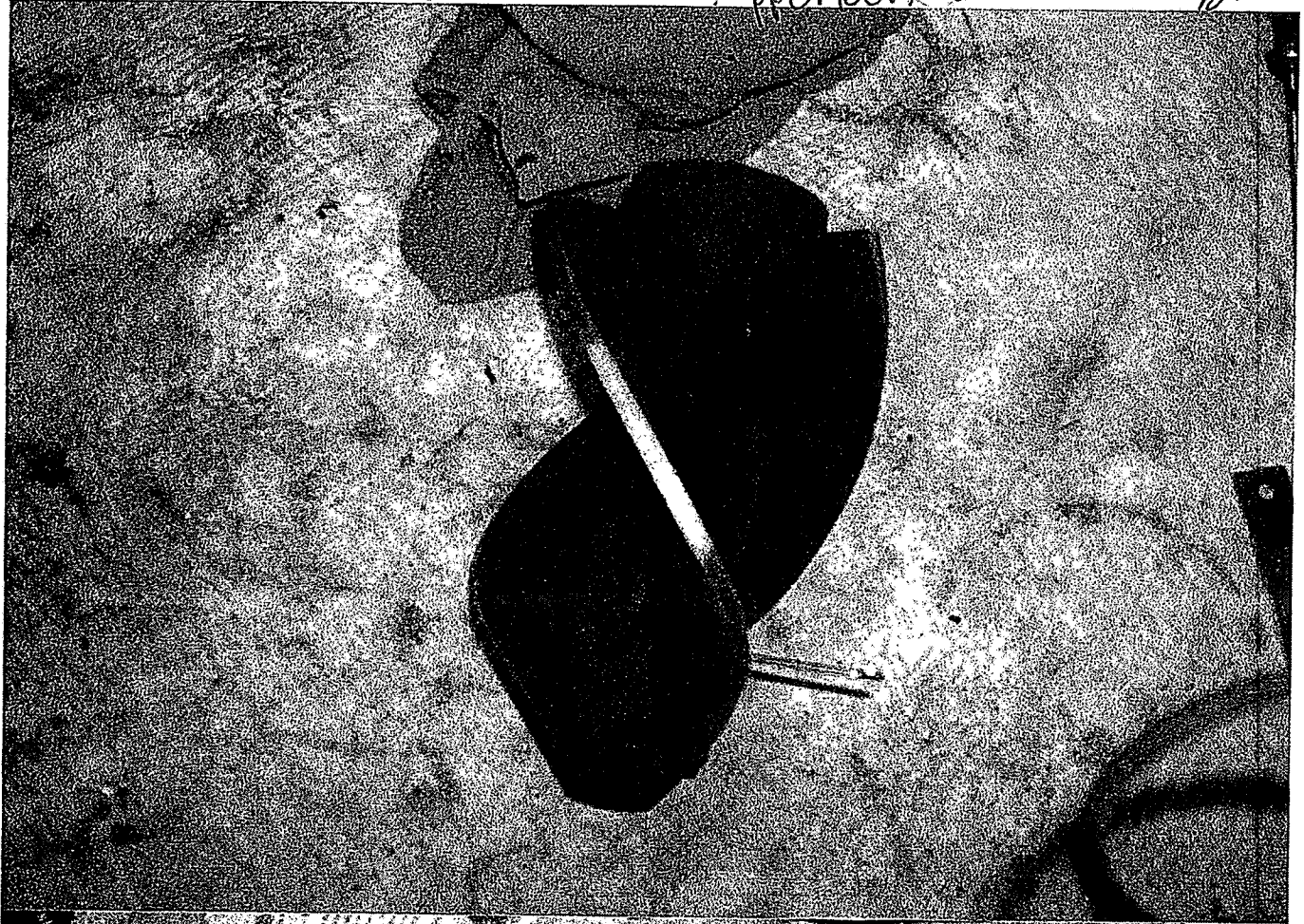
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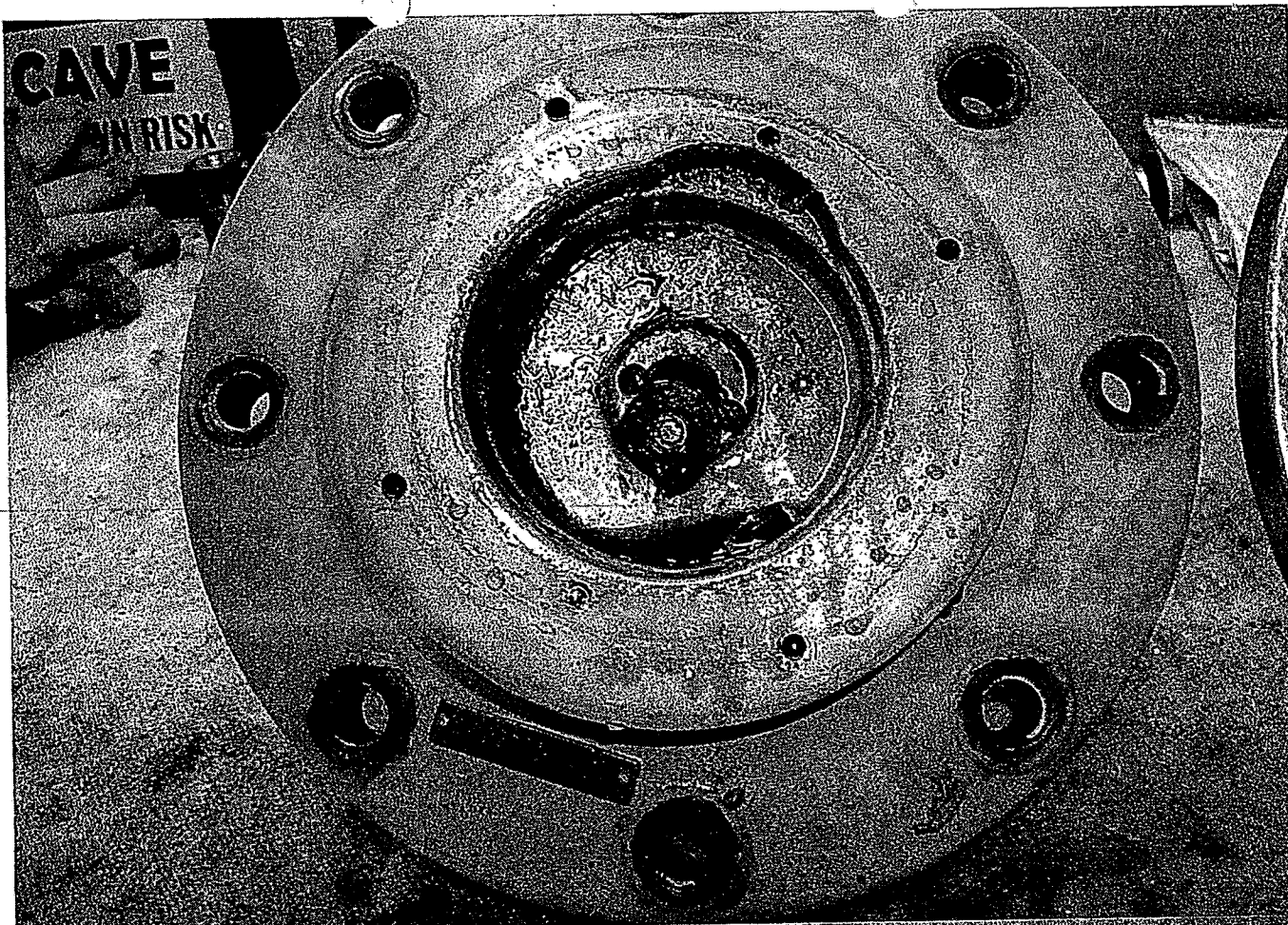
Appendix 2

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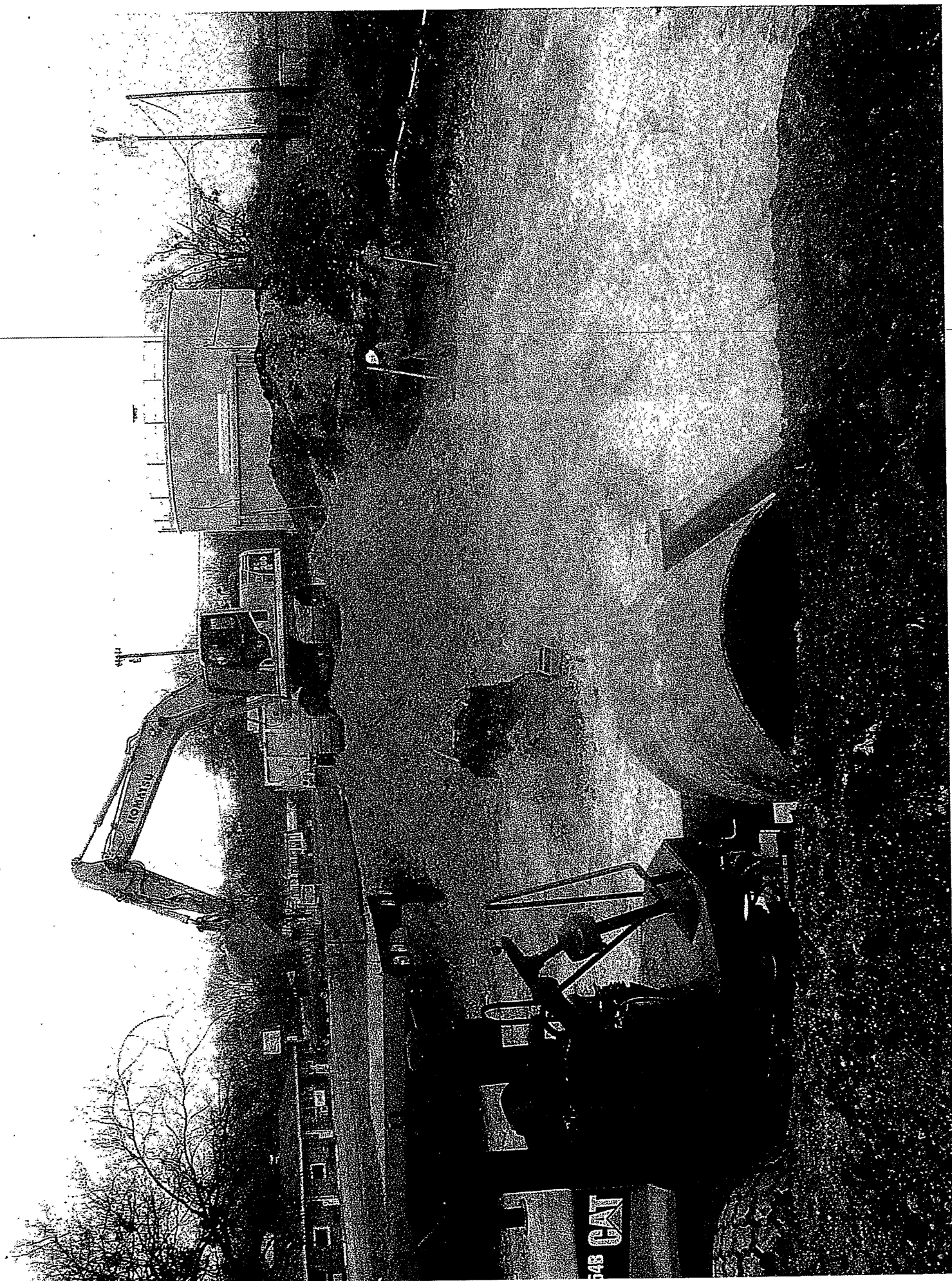




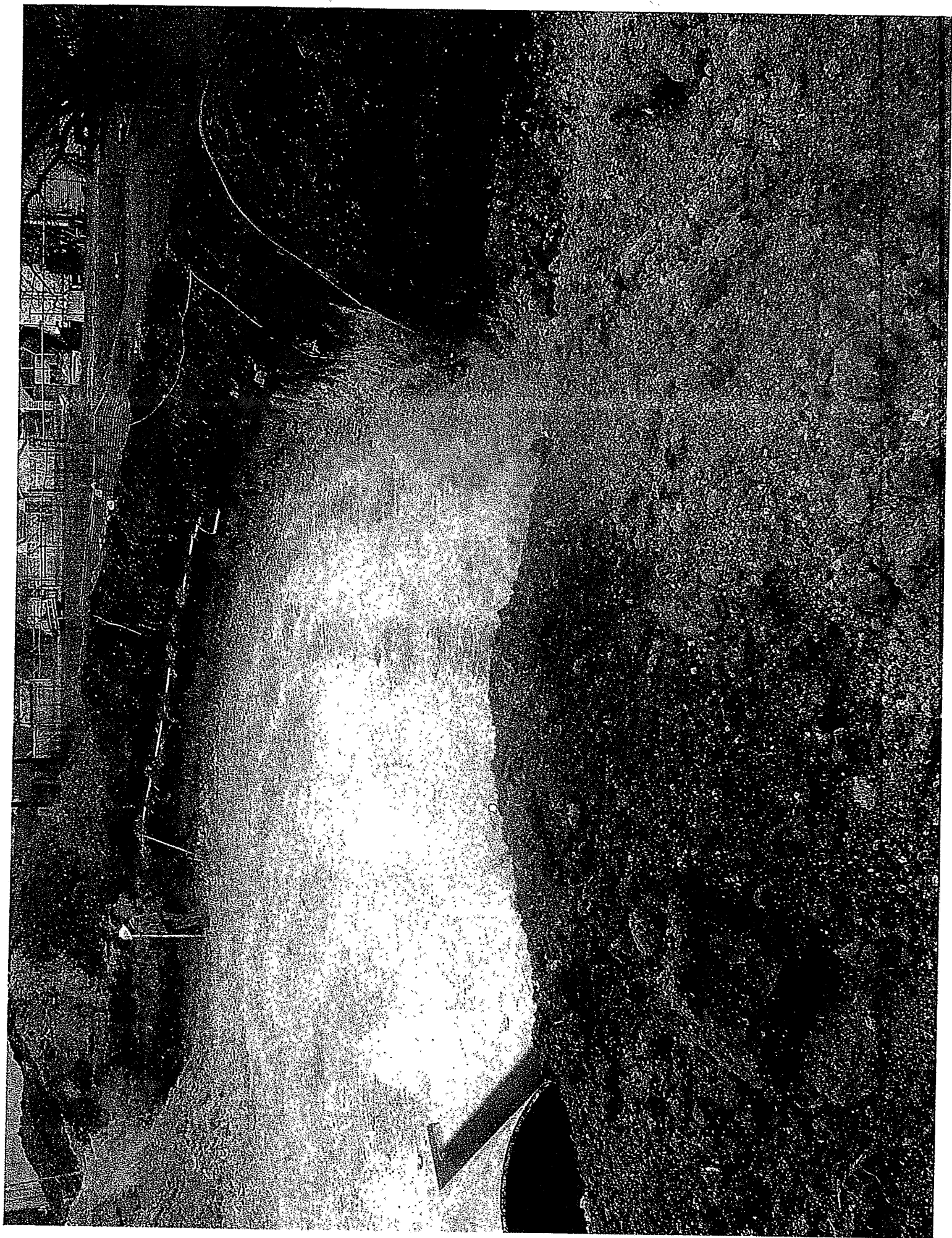












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8/2 repair

**K W UTILITIES**  
"THE WATER METER PEOPLE"

4793 FM 639  
FROST, TEXAS 76641

PHONE - 254 678 1129-  
FAX - 254 678 9071

EMAIL: KWMETERS@MYWAY.COM

"WE APPRECIATE YOUR BUSINESS" "HUB" MEMBER OWNED BUSINESS  
**METER TESTING - REPAIR - SALES**

---

DATE: April 26, 2012

TO: City of Italy

METER LOCATION: Clark st. Trinity # 2

METER BRAND: Water Specialties

SIZE: 4"

TYPE: Propeller MI-03

SERIAL NUMBER: 20061737

START READING: 9598200

END READING: 9599400

**CERTIFICATION OF CALIBRATION**

This is to certify that the physical standards described below were, on this day, compared to the standards of the State of Texas which are directly traceable to standards of the National Bureau of Standards ( NBS test numbers 39569, 40093, 179355, 225713) American Waterworks Test.

LOW FLOW:

QUANTITY:

ACCURACY:

MEDIUM FLOW:

QUANTITY:

ACCURACY:

HIGH FLOW: 303gpm

QUANTITY: 1000gal

ACCURACY: 100.8%

COMMENTS: This Meter is within AWWA Standards.

TESTED BY:



Ken Whitsitt

I

**K W UTILITIES**  
**"THE WATER METER PEOPLE"**

**4793 FM 639**  
**FROST, TEXAS 76641**

**PHONE - 254 678 1129 -**  
**FAX - 254 678 9071**

**EMAIL: KWMETERS@MYWAY.COM**

**"WE APPRECIATE YOUR BUSINESS"**

**"HUB" MEMBER OWNED BUSINESS**

**METER TESTING - REPAIR - SALES**

---

**DATE:** April 26, 2012

**TO:** City of Italy

**METER LOCATION:** Clark St.. Woodbine #3

**METER BRAND:** Sensus

**SIZE:** 3"

**TYPE:** Turbine

**SERIAL NUMBER:** 66904529

**START READING:** 18467600

**END READING:** 18466500

**CERTIFICATION OF CALIBRATION**

*This is to certify that the physical standards described below were, on this day, compared to the standards of the State of Texas which are directly traceable to standards of the National Bureau of Standards (NBS test numbers 39569, 40093, 179355, 225713) American Waterworks Test.*

**LOW FLOW:**                      **QUANTITY:**                      **ACCURACY:**

**MEDIUM FLOW:**                      **QUANTITY:**                      **ACCURACY:**

**HIGH FLOW:** 157gpm                      **QUANTITY:** 1000gal                      **ACCURACY:** 98.7%

**COMMENTS:** This Meter is within AWWA Standards.

**TESTED BY:**

  
Ken Whitsitt

I

**K W UTILITIES**  
**"THE WATER METER PEOPLE"**

**4793 FM 639**  
**FROST, TEXAS 76641**

**PHONE - 254 678 1129**  
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**"HUB" MEMBER OWNED BUSINESS**

**METER TESTING - REPAIR - SALES**

---

**DATE:** April 26, 2012

**TO:** City of Italy

**METER LOCATION:** Hwy 77 Storage

**METER BRAND:** Water Specialties

**SIZE:** 6"

**TYPE:** Propeller Ml-03

**SERIAL NUMBER:** 20053938

**START READING:** 442741000

**END READING:** 442742000

**CERTIFICATION OF CALIBRATION**

*This is to certify that the physical standards described below were, on this day, compared to the standards of the State of Texas which are directly traceable to standards of the National Bureau of Standards (NBS test numbers 39569, 40093, 179355, 225713) American Waterworks Test.*

**LOW FLOW:**

**QUANTITY:**

**ACCURACY:**

**MEDIUM FLOW:**

**QUANTITY:**

**ACCURACY:**

**HIGH FLOW:** 176gpm

**QUANTITY:** 1000gal

**ACCURACY:** 98.6%

**COMMENTS:** This Meter is within AWWA Standards.

**TESTED BY:**

  
Ken Whitsitt

**K W UTILITIES**  
"THE WATER METER PEOPLE"

4793 FM 639  
FROST, TEXAS 76641

PHONE - 254 678 1129  
FAX - 254 678 9071

EMAIL - [KWMETERS@MYWAY.COM](mailto:KWMETERS@MYWAY.COM)

"WE APPRECIATE YOUR BUSINESS"

"HUB" MEMBER OWNED BUSINESS

**METER TESTING - REPAIR - SALES**

DATE: March 4, 2011

TO: City of Italy

METER LOCATION: City Hall Well #1

METER BRAND: Hersey

SIZE: 4"

TYPE: Turbine

SERIAL: 7053832

START READING: 11963500

END READING: 11965600

**CERTIFICATION OF CALIBRATION**

This is to certify that the physical standards described below were, on this day, compared to the standards of the State of Texas which are directly traceable to standards of the National Bureau of Standards ( NBS test numbers 39569, 40093, 179355, 225713).  
American Waterworks Test.

LOW FLOW:

QUANTITY:

ACCURACY:

MEDIUM FLOW:

QUANTITY:

ACCURACY:


HIGH FLOW: 144gpm

QUANTITY: 1000gal

ACCURACY: 99.6%

COMMENTS: This Meter is within AWWA Standards.

TESTED BY:

  
Ken Whitsitt

Copy  
DeAnn C.

I

**K W UTILITIES**  
"THE WATER METER PEOPLE"

**4793 FM 639**

**FROST, TEXAS 76641**

**PHONE - 254 678 1129**

**FAX - 254 678 9071**

**EMAIL: KWMETERS@MYWAY.COM**

**"WE APPRECIATE YOUR BUSINESS"**

**"HUB" MEMBER OWNED BUSINESS**

**METER TESTING - REPAIR - SALES**

---

**DATE:** January 16, 2013

**TO:** City of Avalon

**METER LOCATION:** Wastewater Plant

**METER BRAND:** Sensus

**SIZE:** 1 1/2"

**TYPE:** Turbine

**SERIAL NUMBER:** 46386435

**START READING:** 25435800

**END READING:** 25435900

**CERTIFICATION OF CALIBRATION**

*This is to certify that the physical standards described below were, on this day, compared to the standards of the State of Texas which are directly traceable to standards of the National Bureau of Standards ( NBS test numbers 39569, 40093, 179355, 225713) American Waterworks Test.*

**LOW FLOW:**

**QUANTITY:**

**ACCURACY:**

**MEDIUM FLOW:**

**QUANTITY:**

**ACCURACY:**


**HIGH FLOW:** 14gpm

**QUANTITY:** 100gal

**ACCURACY:** 99.5%

**COMMENTS:** This Meter is within AWWA Standards.

**TESTED BY:**

  
Ken Whitsitt



( )

0 1 2 3 4 5 6 7 8 9

---

Bryan W. Shaw, Ph.D., *Chairman*  
Carlos Rubinstein, *Commissioner*  
Toby Baker, *Commissioner*  
Zak Covar, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 14, 2013

**E SIGNATURE CONFIRMATION # 91 3408 2133 3931 6219 1443**

The Honorable Frank Jackson  
Mayor of Italy  
PO Box 840  
Italy, Texas 76651

COPY

Re: Notice of Violation for Public Water Supply Comprehensive Compliance Investigation at:  
City of Italy, 101 W. Main St., Italy, Ellis County, Texas  
RN101402782, PWS ID No. 0700028, Investigation No. 1053031

Dear Mayor Jackson:

On January 14, 2013, Ms. Crystal Watkins of the Texas Commission on Environmental Quality (TCEQ) Dallas/Fort Worth (D/FW) Regional Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for public water supply systems. Enclosed is a summary which lists the investigation findings. Certain outstanding alleged violations were identified for which compliance documentation is required. Please submit to this office by **May 13, 2013** a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for each of the outstanding alleged violations.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the D/FW Regional Office at (817) 588-5800 or the Central Office Publications Ordering Team at 512-239-0028.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. We anticipate that you will resolve the alleged violations as required in order to protect the State's environment. If you have additional information that we are unaware of, you have the opportunity to contest the violations documented in this notice. Should you choose to do so, you must notify the D/FW Regional Office within 10 days from the date of this letter. At that time, Mr. Charles Marshall, Public Water Supply Program Team Leader, will schedule a violation review meeting to be conducted

The Honorable Frank Jackson

Page 2

February 14, 2013

within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the attached Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions, please feel free to contact Ms. Watkins in the D/FW Regional Office at (817) 588-5804.

Sincerely,



Charles Marshall  
Team Leader, Public Water Supply Program  
D/FW Regional Office  
Texas Commission on Environmental Quality

CM/cdw

Enclosure: Summary of Investigation Findings  
Exit Interview Forms



## Summary of Investigation Findings

CITY OF ITALY PWS

413 CLARK ST

ITALY, ELLIS COUNTY, TX 76651

Investigation #

1053031

Investigation Date: 01/14/2013

Additional ID(s): 0700028

### OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 488853

Compliance Due Date: 05/14/2013

30 TAC Chapter 290.41(c)(3)(J)

#### Alleged Violation:

Investigation: 1053031

Comment Date: 01/30/2013

Failure to provide a concrete sealing block surrounding Well #1 (G0700084A) that extends at least three feet from the well casing in all directions, has a minimum thickness of six inches, and is sloped to drain away, at no less than 0.25 inches per foot. The sealing block should not have any cracks, crevices, breaks, or openings of any kind.

30 TAC 290.41 (c)(3)(J) states that in all cases, a concrete sealing block extending at least three feet from the well casing in all directions, with a minimum thickness of six inches and sloped to drain away at not less than 0.25 inches per foot shall be provided around the wellhead.

On the day of the investigation, the concrete sealing block on both wells was severely cracked. A large gap was present between the well casing and concrete sealing block at Well #2. The water system submitted documentation stating that the sealing blocks will be fixed after release from the insurance company.

**Recommended Corrective Action:** Once approval from the insurance company for construction has been obtained, submit documentation to the regional office that the system has fixed the concrete sealing block and that there are no cracks, crevices, breaks or openings of any kind.

Track No: 488856

Compliance Due Date: 05/14/2013

30 TAC Chapter 290.42(e)(4)(C)

#### Alleged Violation:

Investigation: 1053031

Comment Date: 01/30/2013

Failure to provide adequate ventilation for all enclosures in which gas chlorine is being stored or fed.

30 TAC 290.42(e)(4)(C) states that adequate ventilation, which includes both high level and floor level screened vents, shall be provided for all enclosures in which gas chlorine is being stored or fed. Enclosures containing more than one operating 150-pound cylinder of chlorine shall also provide forced air ventilation which includes: screened and lowered floor level and high level vents; a fan which is located at and draws air in through the top vent and discharges to the outside atmosphere through the floor level vent; and a fan switch located outside the enclosure. Alternately, systems may install negative pressure ventilation as long as the facilities also have gas containment and treatment as prescribed by the current International Fire Code (IFC).

On the day of the investigation, the water system did not have a fan installed inside the chlorine room or a fan switch located outside the enclosure. The water system submitted documentation stating that the chlorine room is under construction and is slated to be moved to a new location.

**Recommended Corrective Action:** Once construction has completed on the gas chlorine room, submit documentation to the regional office that the system has provided adequate ventilation through a fan that draws air in through the top vent and discharges to the outside atmosphere through the floor level vent.

Track No: 488972 Compliance Due Date: 05/14/2013

30 TAC Chapter 290.46(f)(3)(B)(v)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to maintain a copy of the backflow prevention assembly tests.

30 TAC 290.46(f)(3)(B)(v) states that the records of backflow prevention device programs must be retained for at least three years.

On the day of the investigation, the water system did not have copies of the backflow prevention assembly tests available for review.

**Recommended Corrective Action:** Submit a letter and copies of the backflow prevention assembly tests to the regional office.

**ALLEGED VIOLATION(S) NOTED AND RESOLVED  
ASSOCIATED TO A NOTICE OF VIOLATION**

Track No: 488976

30 TAC Chapter 290.41(c)(3)(K)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to properly seal the wellhead.

30 TAC 290.41(c)(3)(K) states that wellheads and pump bases shall be sealed by a gasket or sealing compound to prevent the possibility of contaminating the well water. A well casing vent shall be provided with an opening that is covered with 16-mesh or finer corrosion-resistant screen, facing downward, elevated and located so as to minimize the drawing of contaminants into the well. Wellheads and well vents shall be at least two feet above the highest known watermark or 100-year flood elevation, if available, or adequately protected from possible flood damage by levees.

On the day of the investigation, there were cracks and gaps present in the well head's sealing compound.

**Recommended Corrective Action:** Submit documentation to the regional office that any holes and gaps present in the wellhead have been sealed by a gasket or sealing compound to prevent the possibility of contaminating the well water.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a photograph verifying that the sealing compound had been removed and replaced with new sealant. This will resolve the alleged violation.

**AREA OF CONCERN**

Track No: 488973

30 TAC Chapter 290.42(l)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 02/01/2013

Failure to maintain a complete, thorough, and up-to-date plant operations manual for operator

review and reference.

30 TAC 290.42(l) states that a thorough plant operations manual must be compiled and kept up-to-date for operator review and reference. This manual should be of sufficient detail to provide the operator with routine maintenance and repair procedures, with protocols to be utilized in the event of a natural or man-made catastrophe, as well as provide telephone numbers of water system personnel, system officials, and local/state/federal agencies to be contacted in the event of an emergency.

On the day of the investigation, the water system did not have a copy of the plant operations manual available for review.

**Recommended Corrective Action:** Submit to the regional office a letter and a copy of the water system plant operation manual. This manual should be of sufficient detail to provide the operator with routine maintenance/repair procedures done daily, weekly, monthly and annually, protocols to be utilized in the event of a natural or man-made catastrophe, as well as provide telephone numbers of water system personnel, system officials, and local/state/federal agencies to be contacted in the event of an emergency. Maintain a copy of the system's plant operations manual in a central location that is easily available for review.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a copy of the plant operations manual to the regional office. This will resolve the alleged violation.

---

Track No: 488975

30 TAC Chapter 290.121(a)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to develop and maintain a copy of the monitoring plan.

30 TAC 290.121(a) states that all public water systems shall maintain an up-to-date chemical and microbiological monitoring plan. Monitoring plans are subject to the review and approval of the executive director. A copy of the monitoring plan must be maintained at each water treatment plant and at a central location.

On the day of the investigation, the water system did not have a copy of the monitoring plan available for review.

**Recommended Corrective Action:** Submit a copy of the monitoring plan to the assigned enforcement coordinator which identifies all sampling locations, describes the sampling frequency, and specifies the analytical procedures/laboratories that the public water system will use to comply with the monitoring requirements of TAC 290.121. Maintain a copy of the system's monitoring plant in a central location that is easily available for review.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a copy of the monitoring plan to the regional office. This will resolve the alleged violation.

---

Track No: 488978

30 TAC Chapter 290.46(m)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to utilize good maintenance and housekeeping practices to ensure the public water system are in good working condition and/or properly upkeep the general appearance of the system's facilities equipment.

30 TAC 290.46(m) states that good maintenance and housekeeping practices should be utilized to ensure the public water system are in good working condition and/or properly upkeep the general appearance of the system's facilities equipment. The maintenance and housekeeping practices used by a public water system shall ensure the good working

condition and general appearance of the system's facilities and equipment. The grounds and facilities shall be maintained in a manner so as to minimize the possibility of the harboring of rodents, insects, and other disease vectors, and in such a way as to prevent other conditions that might cause the contamination of the water.

On the day of the investigation, there was a large dirt mound underneath the fencing around well site.

**Recommended Corrective Action:** Submit documentation to the regional office that the area around the facility has been cleared of all brush and leaf piles and that the facility is being kept in good working condition. Please ensure that all service pumps are kept in watertight condition.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a photograph verifying that the grounds around the well sites were being maintained. The area is also being prepared for an upgrade in the water system facilities. This will resolve the alleged violation.

# TCEQ EXIT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name	City of Hall		TCEQ Add. ID No. RN No. (optional)	0700028
Investigation Type	CC-1	Contact Made In-House (Y/N)	N	Purpose of Investigation Relating
Regulated Entity Contact	Dean Carroll		Telephone No.	972.483.7328
Title	Public Works Director		Fax No.	
			Date Contacted	1/14/13
			Date Faxed	

NOTICE: The information provided in this form is intended to provide clarity to issues that have arisen during the investigation process between the TCEQ and the regulated entity named above and does not represent final TCEQ findings related to violations. Any potential or alleged violations discovered after the date on this form will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in a final investigation report.

Issue		For Records Request: identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues: include the rule in question with the clearly described potential problem. Other type of issues: fully describe.	Description of Issue
No.	Type <sup>1</sup>	Rule Citation (if known)	
1	AV	30 TAC 290	Failure to maintain a plant operations manual. ✓
2	AV	30 TAC 250	Failure to maintain a monitoring plan. ✓
3	AV	30 TAC 290	Failure to maintain the backflow prevention test results. ✓
4	AV	30 TAC 290	Failure to maintain calibration records for the Hatch colorimeter.
5	AV	30 TAC 290	Failure to properly seal the wellhead on well #3.
6	AV	30 TAC 250	Failure to properly maintain the concrete sealing block on well #2 & #3.
7	AV	30 TAC 250	Failure to maintain functioning upper fan in gas chlorine room.

<sup>1</sup> Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<b>RECEIVED</b>
Did the investigator advise the regulated entity representative that continued operation is not authorized?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
			JAN 30 2013

**Document Acknowledgment.** Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Investigator Name (Signed & Printed)	Date	Regulated Entity Representative Name (Signed & Printed)	Date
Crystal Watkins	1-14-13	Dean Carroll	1-14-13

If you have questions about any information on this form, please contact your local TCEQ Regional Office.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512-239-3282.

# TCEQ EXT INTERVIEW FORM: Potential Violations and/or Records Requested

Regulated Entity/Site Name		City of Abilene		TCEQ Add. ID No. RN No. (optional)	0700028
Investigation Type	CCI	Contact Made In-House (Y/N)	Y	Purpose of Investigation	Routine
Regulated Entity Contact	Dean Carrell		Telephone No.		Date Contacted
Title	Public Works Director		Fax No.		Date Faxed
					1/14/13

NOTICE: The information provided in this form is intended to provide clarity to issues that have arisen during the investigation process between the TCEQ and the regulated entity named above and does not represent final TCEQ findings related to violations. Any potential or alleged violations discovered after the date on this form will be communicated by telephone to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in a final investigation report.

Issue		For Records Request: identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues: include the rule in question with the clearly described potential problem. Other type of issues: fully describe.
No.	Type <sup>1</sup>	Rule Citation (if known)
8	AV	30 TAC 290 Failure to have a working well meter on wells #1 & 2 ✓
9	AV	30 TAC 290 Failure to properly maintain the gaugings. ✓
10	RR	Please provide a copy of the NSF certification for gas chlorine ✓
11	RR	Please provide a copy of the most recent well meter calibration records. ✓
12	AI	Please update the drought contingency plan. ✓

1. Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the investigator advise the regulated entity representative that continued operation is not authorized?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Document Acknowledgment. Signature on this document establishes only that the regulated entity (company) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, document will be faxed to regulated entity; therefore, signature not required.

Investigator Name (Signed & Printed)	Date	Regulated Entity Representative Name (Signed & Printed)	Date
Crystal Watson	1-14-13	Dean Carrell	1-14-13

# Texas Commission on Environmental Quality

## Investigation Report

### City of Italy

### CN600460026

### CITY OF ITALY PWS

RN101402782

Investigation # 1053031

Incident #

Investigator: CRYSTAL WATKINS

Site Classification

GW 251-1K CONNECTION

Conducted: 01/14/2013 -- 01/14/2013

SIC Code: 4941

Program(s): PUBLIC WATER  
SYSTEM/SUPPLY

Investigation Type : Compliance Investigation

Location : INTERSECTION OF HWY 34  
AND HWY 77

Additional ID(s) : 0700028

Address: 413 CLARK ST; ITALY, TX  
76651Activity Type : REGION 04 - DFW METROPLEX  
PWSCCIGWCM - PWSCCOGWCM PWS CCI  
Discretionary Groundwater, Purchase,  
CommunityPrincipal(s) :

Role	Name
RESPONDENT	CITY OF ITALY

Contact(s) :

Role	Title	Name	Phone
Notified	CONTRACT OPERATOR	MR DEAN CARRELL	Fax (972) 483-2800 Work (972) 483-7329
Participated in Investigation	CONTRACT OPERATOR	MR DEAN CARRELL	
Regulated Entity Contact	MAYOR	HON FRANK JACKSON	Work (972) 483-7329
Regulated Entity Mail Contact	MAYOR	HON FRANK JACKSON	Work (972) 483-7329
Participated in Investigation	EMPLOYEE	MR SHEDRIC WALKER	Work (972) 843-7329
Participated in Investigation	EMPLOYEE	MR CLINTON MCCASLAND	Work (972) 483-7329

Other Staff Member(s) :

Role	Name
Investigator	ARIEL YEH
Supervisor	CHARLES MARSHALL
QA Reviewer	CHARLES MARSHALL

### Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
PWS EMERGENCY POWER INITIATIVE	CITY OF ITALY
PWS INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING	CITY OF ITALY

COPY

PWS STANDARD FIELD

CITY OF ITALY

Investigation Comments :

INTRODUCTION

Dean Carrell, Public Works Director for the City of Italy, received prior notification of the Comprehensive Compliance Investigation (CCI) from Ms. Crystal Watkins, Texas Commission on Environmental Quality (TCEQ) Dallas/Fort Worth (D/FW) Regional Investigator, on January 7, 2013. A list of records required for the investigation was emailed to Mr. Carrell on January 7, 2012. On January 14, 2013, Ms. Watkins and Ms. Ariel Yeh, TCEQ D/FW Regional Investigator, conducted the investigation and exit interview was conducted with Mr. Carrell, Clinton McCasland, and Shedric Walker, employees for the City of Italy.

Several alleged violations were noted during the investigation and a Notice of Violation was sent to the system.

GENERAL FACILITY AND PROCESS INFORMATION

The City of Italy is a community water system located in Ellis County, Texas. The water system serves 731 connections with an approximate population of 2193 based on three person per connection. The water system consists of three groundwater wells that supply one water plant and one pressure plane.

Water from the groundwater wells enter two cooling tower and then are disinfected with gas chlorine before entering a ground storage tank. Water is then transferred via three transfer pumps to another ground storage tank. Two service pumps pump water from storage to the distribution system and an elevated storage tank provide storage and pressure maintenance for the system.

\*\*\*\*Specific facility information and capacity calculations such as tank volumes pump capacities, etc. can be found in the Public Water System Database Sheet attached to this CCI report. \*\*\*\*

EXCEPTION/ALTERNATIVE CAPACITY REQUIREMENT

N/A

BACKGROUND

The last compliance investigation at the City of Italy PWS was conducted March 18, 2010. Several alleged violations had been cited and have since been resolved.

ADDITIONAL INFORMATION

Records Review

During the investigation, the following records were requested for review: well completion data, plant operations manual, monitoring plan, drought contingency plan, distribution map, customer service agreements, NSF certifications, equipment calibration records, public notices, monthly operating reports, disinfectant level quarterly operating reports, flushing records, disinfectant residual monitoring records, customer complaint records and bacteriological sampling records for the previous twelve months.

All records were readily available for review.

Capacity

During the investigation, the water system capacities were evaluated. During the investigation, the well meters on Wells #1 and #2 were out of service; therefore estimates from the well calibration



tests were used. The system is required to provide 438.6 gallons per minute (GPM) of water and produce 607 GPM. See the investigation attachments for a copy of the Water System Diagram, Water System Data Sheet, and PWS Database Printout for further information.

#### Sampling

The disinfectant residual and distribution pressure were measured at 409 Venice with a residual of 0.3 milligrams per liter (mg/L) free chlorine and a pressure of 73 pounds per square inch (psi).

NOV Date      Method  
02/14/2013      WRITTEN

#### OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 488853

Compliance Due Date: 05/14/2013

Violation Start Date: 1/14/2013

#### 30 TAC Chapter 290.41(c)(3)(J)

##### Alleged Violation:

Investigation: 1053031

Comment Date: 01/30/2013

Failure to provide a concrete sealing block surrounding Well #1 (G0700084A) that extends at least three feet from the well casing in all directions, has a minimum thickness of six inches, and is sloped to drain away, at no less than 0.25 inches per foot. The sealing block should not have any cracks, crevices, breaks, or openings of any kind.

30 TAC 290.41 (c)(3)(J) states that in all cases, a concrete sealing block extending at least three feet from the well casing in all directions, with a minimum thickness of six inches and sloped to drain away at not less than 0.25 inches per foot shall be provided around the wellhead.

On the day of the investigation, the concrete sealing block on both wells was severely cracked. A large gap was present between the well casing and concrete sealing block at Well #2. The water system submitted documentation stating that the sealing blocks will be fixed after release from the insurance company.

**Recommended Corrective Action:** Once approval from the insurance company for construction has been obtained, submit documentation to the regional office that the system has fixed the concrete sealing block and that there are no cracks, crevices, breaks or openings of any kind.

Track No: 488856

Compliance Due Date: 05/14/2013

Violation Start Date: 1/14/2013

#### 30 TAC Chapter 290.42(e)(4)(C)

##### Alleged Violation:

Investigation: 1053031

Comment Date: 01/30/2013

Failure to provide adequate ventilation for all enclosures in which gas chlorine is being stored or fed.

30 TAC 290.42(e)(4)(C) states that adequate ventilation, which includes both high level and floor level screened vents, shall be provided for all enclosures in which gas chlorine is being stored or fed. Enclosures containing more than one operating 150-pound cylinder of chlorine shall also provide forced air ventilation which includes: screened and lowered floor level and high level vents; a fan which is located at and draws air in through the top vent and discharges to the outside atmosphere through the floor level vent; and a fan switch located outside the enclosure. Alternately, systems may install negative pressure

ventilation as long as the facilities also have gas containment and treatment as prescribed by the current International Fire Code (IFC).

On the day of the investigation, the water system did not have a fan installed inside the chlorine room or a fan switch located outside the enclosure. The water system submitted documentation stating that the chlorine room is under construction and is slated to be moved to a new location.

**Recommended Corrective Action:** Once construction has completed on the gas chlorine room, submit documentation to the regional office that the system has provided adequate ventilation through a fan that draws air in through the top vent and discharges to the outside atmosphere through the floor level vent.

Track No: 488972

Compliance Due Date: 05/14/2013

Violation Start Date: 1/14/2013

30 TAC Chapter 290.46(f)(3)(B)(v)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to maintain a copy of the backflow prevention assembly tests.

30 TAC 290.46(f)(3)(B)(v) states that the records of backflow prevention device programs must be retained for at least three years.

On the day of the investigation, the water system did not have copies of the backflow prevention assembly tests available for review.

**Recommended Corrective Action:** Submit a letter and copies of the backflow prevention assembly tests to the regional office.

ALLEGED VIOLATION(S) NOTED AND RESOLVED  
ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 488976

Resolution Status Date: 1/31/2013

Violation Start Date: 1/14/2013

Violation End Date: 1/30/2013

30 TAC Chapter 290.41(c)(3)(K)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to properly seal the wellhead.

30 TAC 290.41(c)(3)(K) states that wellheads and pump bases shall be sealed by a gasket or sealing compound to prevent the possibility of contaminating the well water. A well casing vent shall be provided with an opening that is covered with 16-mesh or finer corrosion-resistant screen, facing downward, elevated and located so as to minimize the drawing of contaminants into the well. Wellheads and well vents shall be at least two feet above the highest known watermark or 100-year flood elevation, if available, or adequately protected from possible flood damage by levees.

On the day of the investigation, there were cracks and gaps present in the well head's sealing compound.

**Recommended Corrective Action:** Submit documentation to the regional office that any holes and gaps present in the wellhead have been sealed by a gasket or sealing compound to prevent the possibility of contaminating the well water.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted

a photograph verifying that the sealing compound had been removed and replaced with new sealant. This will resolve the alleged violation.

**AREA OF CONCERN**

Track No: 488973

Resolution Status Date: 2/1/2013

Violation Start Date: 1/14/2013

Violation End Date: 1/30/2013

30 TAC Chapter 290.42(I)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 02/01/2013

Failure to maintain a complete, thorough, and up-to-date plant operations manual for operator review and reference.

30 TAC 290.42(I) states that a thorough plant operations manual must be compiled and kept up-to-date for operator review and reference. This manual should be of sufficient detail to provide the operator with routine maintenance and repair procedures, with protocols to be utilized in the event of a natural or man-made catastrophe, as well as provide telephone numbers of water system personnel, system officials, and local/state/federal agencies to be contacted in the event of an emergency.

On the day of the investigation, the water system did not have a copy of the plant operations manual available for review.

**Recommended Corrective Action:** Submit to the regional office a letter and a copy of the water system plant operation manual. This manual should be of sufficient detail to provide the operator with routine maintenance/repair procedures done daily, weekly, monthly and annually, protocols to be utilized in the event of a natural or man-made catastrophe, as well as provide telephone numbers of water system personnel, system officials, and local/state/federal agencies to be contacted in the event of an emergency. Maintain a copy of the system's plant operations manual in a central location that is easily available for review.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a copy of the plant operations manual to the regional office. This will resolve the alleged violation.

Track No: 488975

Resolution Status Date: 1/31/2013

Violation Start Date: 1/14/2013

Violation End Date: 1/30/2013

30 TAC Chapter 290.121(a)

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to develop and maintain a copy of the monitoring plan.

30 TAC 290.121(a) states that all public water systems shall maintain an up-to-date chemical and microbiological monitoring plan. Monitoring plans are subject to the review and approval of the executive director. A copy of the monitoring plan must be maintained at each water treatment plant and at a central location.

On the day of the investigation, the water system did not have a copy of the monitoring plan available for review.

**Recommended Corrective Action:** Submit a copy of the monitoring plan to the assigned enforcement coordinator which identifies all sampling locations, describes the sampling frequency, and specifies the analytical procedures/laboratories that the public water system will use to comply with the monitoring requirements of TAC 290.121. Maintain a copy of the system's monitoring plan in

a central location that is easily available for review.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a copy of the monitoring plan to the regional office. This will resolve the alleged violation.

Track No: 488978

Resolution Status Date: 1/31/2013

Violation Start Date: 1/14/2013

Violation End Date: 1/30/2013

**30 TAC Chapter 290.46(m)**

**Alleged Violation:**

Investigation: 1053031

Comment Date: 01/31/2013

Failure to utilize good maintenance and housekeeping practices to ensure the public water system are in good working condition and/or properly upkeep the general appearance of the system's facilities equipment.

30 TAC 290.46(m) states that good maintenance and housekeeping practices should be utilized to ensure the public water system are in good working condition and/or properly upkeep the general appearance of the system's facilities equipment. The maintenance and housekeeping practices used by a public water system shall ensure the good working condition and general appearance of the system's facilities and equipment. The grounds and facilities shall be maintained in a manner so as to minimize the possibility of the harboring of rodents, insects, and other disease vectors, and in such a way as to prevent other conditions that might cause the contamination of the water.

On the day of the investigation, there was a large dirt mound underneath the fencing around well site.

**Recommended Corrective Action:** Submit documentation to the regional office that the area around the facility has been cleared of all brush and leaf piles and that the facility is being kept in good working condition. Please ensure that all service pumps are kept in watertight condition.

**Resolution:** On January 30, 2013, Mr. Dean Carrell, Public Works Director for City of Italy, submitted a photograph verifying that the grounds around the well sites were being maintained. The area is also being prepared for an upgrade in the water system facilities. This will resolve the alleged violation.

Signed

Crystal D. Watkins  
Environmental Investigator

Date

2/1/13

Signed

[Signature]  
Supervisor

Date

2/8/13

**Attachments: (in order of final report submittal)**

☐ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type) : NDV

☐ Investigation Report

☐ Sample Analysis Results

☐ Manifests

☐ NOR

☒ Maps, Plans, Sketches

☒ Photographs

☒ Correspondence from the facility

☐ Other (specify) :

- Updated IWD

- Operator's Certification

- Water System Data Sheet



## PUBLIC WATER SYSTEM DATA

<b>Name of System:</b> City of Italy			
<b>CCN Number:</b> 10885		<b>PWS ID:</b> 700028	
<b>Classification:</b> Not Applicable		<b>Type:</b> Community	
<b>Region Number:</b> 4			
<b>Interconnect with Other PWS:</b>	No	<b>Name of PWS I/C:</b>	
<b>Type I/C:</b>			
<b>Retail Service Connections:</b>		<b>Retail Meters:</b> 731	
<b>Retail Population:</b> 2193			
<b>Wholesale Master Meters:</b>		<b>Wholesale Service Connections:</b>	
<b>Wholesale Population:</b>			
<b>Total Well Capacity:</b> 607 GPM 0.874 MGD			
<b>Raw Capacity:</b> GPM MGD			
<b>Total Elevated Storage:</b> 0.300 MG		<b>Total Storage Capacity:</b> 1.25 MG	
<b>Pressure Tank Capacity:</b> 0.0			
<b>Maximum Daily Usage:</b> 0.362 MGD		<b>Date:</b> 07/04/2012	
<b>Average Daily Usage:</b> 0.168 MGD		<b>Time Period:</b> 01/01/2012 to 12/31/2012	
<b>Wholesale Contract:</b> No		<b>Maximum Purchase Rate :</b>	
<b>No. of Samples Required:</b> 2		<b>No. of Samples Submitted:</b> 2	
<b>No. of Raw Samples Required:</b> 0		<b>No. of Raw Samples Submitted:</b>	
<b>Non-Comm Dates of Operation:</b>	09/09/9999 to 09/09/9999		

## WATER STORAGE TANKS

Type	Capacity	Material	Location
EL	0.3 MG	ST	104 Harpold
GR	0.2 MG	ST	Simms Street(PS#2)
GR	0.075 MG	CC	413 Clark Street (PS#1)

## WATER SOURCES

EP No.	Source Code	Owner's Des	Location	Status	Pump Type	Tst. GPM	Est. GPM	Ts/Est. GPM Date
1	G0700028B	Well#2	600 Clark	O	Submersible		303	04/26/2007
1	G0700028C	Well#3	600 Clark	O	Submersible	160		04/26/2007
1	G0700028A	Well#1	101 Houston St.	O	Submersible		144	04/26/2007

## SERVICE PUMPS

Pump Number	Output	Location
1	75 HP(1500 GPM)	Simms Street(PS#2)
2	75 HP(1500 GPM)	Simms Street(PS#2)

## SYSTEM CAPACITIES

Pressure Plane Number: 1      Name: Pressure Plane #1

System Capacities				Required	Provided
Well Production	0.6	GPM Conn X 731	Conn =	438.6	GPM 607
Elevated Pressure Storage	200	Gal/Conn X 731	Conn =	0.1462	MG 0.300
Ground/Total Storage	200	Gal/Conn X 731	Conn =	0.1462	MG 1.25
Service Pump Capacity	0.6**	GPM/Conn X 731	Conn =	438.6	GPM 3000
Service Pump Peaking Factor		MDD/1440 X		**	GPM
Tested PSI: 73   Tested CL2: 0.3   Free   Location: 409 Venice					



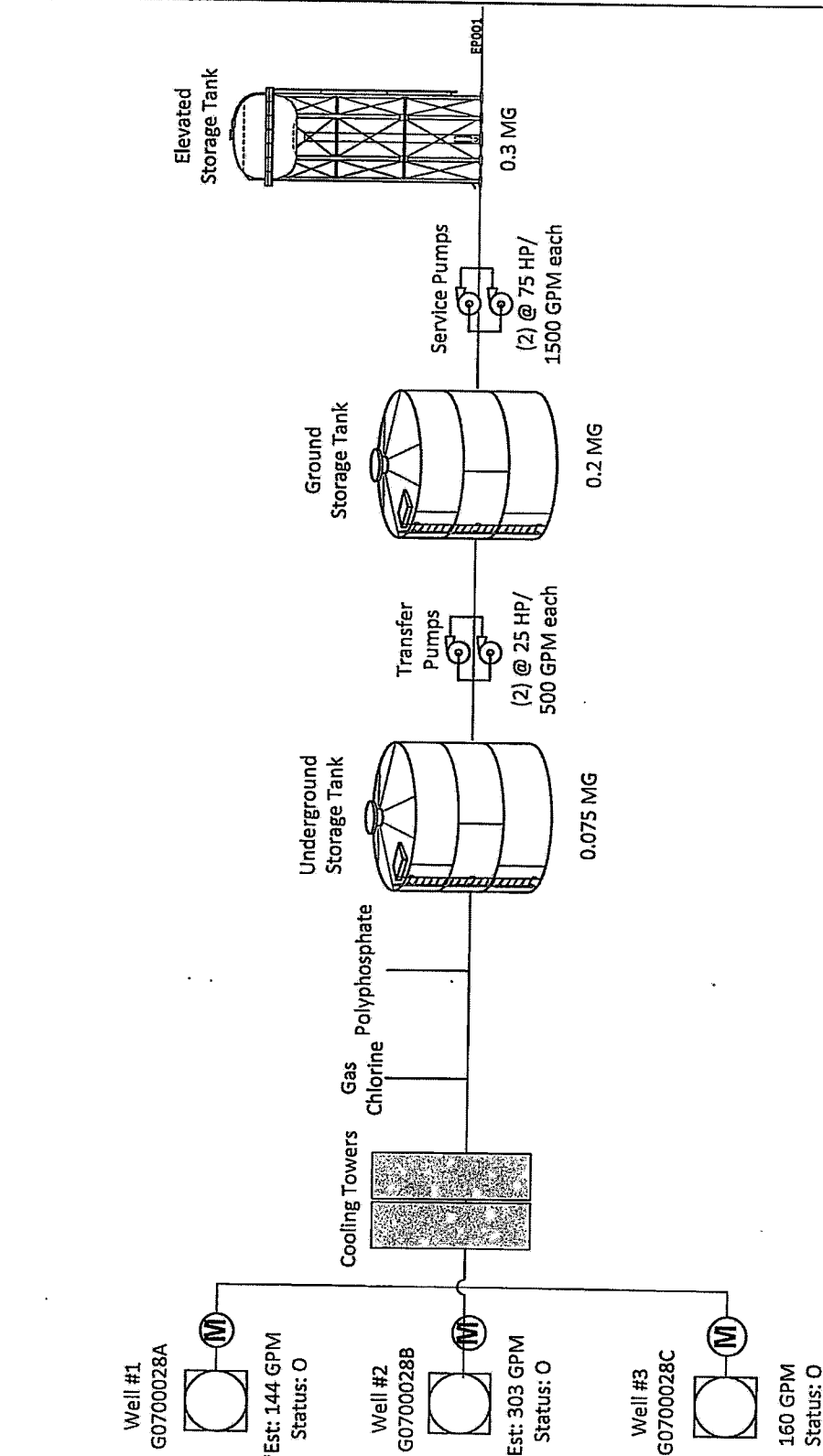
City of Italy

PWS ID# 0700028

Investigation Date: 01/14/2013

Investigator: Crystal Watkins

Texas Commission on Environmental Quality  
Public Water System Diagram  
TCEQ Region 4



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