

# Summary of Investigation Findings

1485 CRYSTAL SPRINGS WATER	Investigation # 1260922
, MONTGOMERY COUNTY,	Investigation Date: 06/30/2015
Additional ID(s): 1700580	

## ALLEGED VIOLATION(S) NOTED AND RESOLVED

Track No: 547366

30 TAC Chapter 290.46(s)(1)

**Alleged Violation:**

Investigation: 1184786

Comment Date: 09/03/2014

**Testing Equipment**

Failure by the regulated entity to calibrate the well meter required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years. Specifically, a well meter calibration certificate was not provided during the investigation.

Investigation: 1217006

Comment Date: 01/09/2015

Failure by the regulated entity to calibrate the well meter required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

To date, this violation is unresolved.

Investigation: 1260922

Comment Date: 06/30/2015

Failure by the regulated entity to calibrate the well meter required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

To date, this violation is unresolved

**Recommended Corrective Action:** Submit documentation indicating that the well meter has been calibrated according to the manufacturer's specifications within the past three years to verify compliance.

**Resolution:** On 06/22/15, the system submitted a work order and photographs indicating that the well meter had been replaced. The system is now in compliance.

Bryan W. Shaw, Ph.D., P.E. *Chairman*  
Toby Baker, *Commissioner*  
Zak Coxar, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Regulating and Promoting Pollution*

March 19, 2015

**CERTIFIED MAIL #7013 3020 0000 9763 0881**  
**RETURN RECEIPT REQUESTED**

Mr. Tom A. Martin, President  
Crystal Springs Water Co., Inc.  
PO Box 603  
Porter, Texas 77365-0603

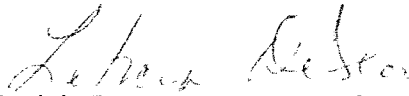
Re: Notice of Violation for the Comprehensive Compliance Investigation at:  
Afton Park Water System, on south side of Park Dr., Montgomery County, Texas  
Regulated Entity No.: 101203834, TCEQ ID No.: 1700147, Investigation No.: 1221531

Dear Mr. Martin:

On January 20, 2015, Ms. Christina Bernal of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for Public Water Supply. Enclosed is a summary which lists the investigation findings. During the investigation, a concern was noted which was an alleged noncompliance that has been resolved based on subsequent corrective action. Information has been provided which appears to indicate that this outstanding problem has been corrected. Please be advised that a violation could be issued upon further review of your system's records or self-reported documentation. No further response from you is necessary concerning this investigation.

The TCEQ appreciates your assistance in this matter. If you or members of your staff have any questions, please feel free to contact Ms. Christina Bernal in the Houston Region Office at (713) 767-3650.

Sincerely,

  
Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/CB/ra

cc: Montgomery County Environmental Health Services

Enclosure: Summary of Investigation Findings

# Summary of Investigation Findings

AFTON PARK WATER SYSTEM

Investigation #

1221531  
Investigation Date: 01/20/2015

, MONTGOMERY COUNTY,

Additional ID(s): 1700147

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

Track No: 563273

30 TAC Chapter 290.45(b)(1)(A)(i)

### Alleged Violation:

Investigation: 1221531

Comment Date: 03/18/2015

Capacity Requirement

Failure to provide a minimum well capacity of 1.5 gallons per minute per connection

At the time of the inspection the facility had a total of 27 active connections and is required to provide 1.5 gallons per minute (gpm) per connection (conn). Your well produced a total of 38 gpm and is short a total of 2.5 gpm. This is calculated in the following manner:

(Required Calculation) the amount of water a system is required to provide  
 $1.5 \text{ gpm /conn} \times 27 \text{ conn.} = 40.5 \text{ gpm Required}$

(Short Calculation) the amount of water the system is short  
 $40.5 \text{ gpm Required} - 38 \text{ gpm Produced} = 2.5 \text{ gpm Short, 6\%}$

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or distribution facilities. Public water systems shall submit plans and specifications for the proposed changes upon request.

The water system may request an exception to these requirements by writing to TCEQ, Water Supply Division, Public Drinking Water Section, Technical Review & Oversight, MC 159, P. O. Box 13087, Austin, TX 78711-3087, phone (512) 239-4691.

At the time of the compliance investigation, the well was timed at 38 GPM. During previous compliance investigations in 2008 and 2011, the well was timed at 53 GPM and 56 GPM, respectively. Mr. Larry Purcell of Crystal Springs Water Company, Inc. informed the investigator during a phone conversation on March 4, 2015, that a bleed downhole was suspected as a cause of the decreased capacity. The company was planning to have the well checked and repaired as necessary. An exact date for this work was not available at the time.

**Recommended Corrective Action:** Submit a copy of a work order, invoice, receipt, or photo showing that the well is capable of producing at least 40.5 GPM to verify compliance.

Otherwise, submit a compliance plan, engineering report or certification OR a copy of a letter requesting an exception in addition to a compliance plan for final compliance OR a copy of a letter granting an exception to verify compliance.

**Resolution:** On March 12, 2015, the investigator received via fax a copy of a repair summary stating that the hole had been located and the affected piping had been replaced the day before, March 11. The well was then timed at 60 to 65 gallons per minute. This is more than sufficient capacity to serve all connections in the water system.

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

December 8, 2015

**CERTIFIED MAIL #7013 3020 0000 9763 1604**  
**RETURN RECEIPT REQUESTED**

Mr. Tom Martin, CEO  
Crystal Springs Water Co Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Acceptance of a Compliance Plan for:  
Autumn Acres Water System, 22888 Hughey Avenue, New Caney, Montgomery Co., TX  
Regulated Entity No.: 104730312, TCEQ ID No.: 1700756, Investigation No.: 1295176

Dear Mr. Martin:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office has completed a review of the compliance plan and any additional information that you submitted on September 29, 2015, to resolve the alleged violation #580384. This alleged violation was noted during the investigation of the above-referenced facility conducted on July 23, 2015. The compliance plan appears to identify the necessary corrective action for the alleged violation. We will monitor your progress in implementing the corrective action. Please submit to this office a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved the outstanding alleged violation by May 15, 2016, demonstrating that the alleged violation has been resolved. Please be advised that if we determine, during follow-up monitoring, that you are not working towards compliance or the problem has escalated, further enforcement action will be considered.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and anticipates that you will resolve the alleged violation as required in order to protect the State's environment. If you or members of your staff have any questions, please feel free to contact Ms. Olivo in the Houston Region Office at (713) 767-3650.

Sincerely,

A handwritten signature in black ink, appearing to read "Julia Thorp".

Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/DO/ra

cc: Montgomery County Environmental Health Services

Enclosure: Summary of Investigation Findings

# Summary of Investigation Findings

AUTUMN ACRES WATER SYSTEM

Investigation #

1295176

Investigation Date: 11/30/2015

, MONTGOMERY COUNTY,

Additional ID(s): 1700756

Track No: 580384 Compliance Due Date: 05/15/2016

30 TAC Chapter 290.45(b)(1)(C)(i)

## Alleged Violation:

Investigation 1252612

Comment Date 08/13/2015

### Capacity Requirement

Failure to provide minimum well capacity of 1.5 gallons per minute per connection

At the time of the inspection the facility had a total of 43 active connections and is required to provide 1.5 gallons per minute (gpm) per connection (conn). Your well produced a total of 52 gpm and is short a total of 12.5 gpm. This is calculated in the following manner:

(Required Calculation) the amount of water a system is required to provide  
 $1.5 \text{ gpm /conn} \times 43 \text{ conn} = 64.5 \text{ gpm Required}$

(Short Calculation) the amount of water the system is short  
 $64.5 \text{ gpm Required} - 52 \text{ gpm Produced} = 12.5 \text{ gpm Short}$

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or distribution facilities. Public water systems shall submit plans and specifications for the proposed changes upon request.

The water system may request an exception to these requirements by writing to TCEQ, Water Supply Division, Public Drinking Water Section, Technical Review & Oversight, MC 159, P O Box 13087, Austin, TX 78711-3087, phone (512) 239-4691.

Investigation 1295176

Comment Date. 12/01/2015

### Capacity Requirement

Failure to provide minimum well capacity of 1.5 gallons per minute per connection

At the time of the inspection the facility had a total of 43 active connections and is required to provide 1.5 gallons per minute (gpm) per connection (conn). Your well produced a total of 52 gpm and is short a total of 12.5 gpm. This is calculated in the following manner:

(Required Calculation) the amount of water a system is required to provide  
 $1.5 \text{ gpm /conn} \times 43 \text{ conn} = 64.5 \text{ gpm Required}$

(Short Calculation) the amount of water the system is short  
 $64.5 \text{ gpm Required} - 52 \text{ gpm Produced} = 12.5 \text{ gpm Short}$

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or

Bryan W. Shaw, Ph.D , P.E , *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

August 21, 2015

**CERTIFIED MAIL # 7014 3490 0001 0559 6226**  
**RETURN RECEIPT REQUESTED**

Mr. Tom Martin, President  
Crystal Springs Water Co Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Notice of Violation for the Comprehensive Compliance Investigation at:  
Autumn Acres Water System, 22888 Hughey Avenue, New Caney, Montgomery County,  
Texas  
Regulated Entity No.: 104730312  
TCEQ ID No.: 1700756  
Investigation No.: 1252612

Dear Mr. Martin:

On July 23, 2015, Ms. Dawn Olivo, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for Public Water Supply. Enclosed is a summary which lists the investigation findings. During the investigation, a certain outstanding alleged violation was identified for which compliance documentation is required. A due date for submitting compliance documentation for outstanding alleged violation #580384 will be determined after you provide a compliance plan for this alleged violation. Your compliance plan is due by November 27, 2015. Please address how the violation will be resolved and provide a reasonable time frame for completion of the work.

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.texas.gov> 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 Houston Region Office at (713) 767-3650 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 Houston Region

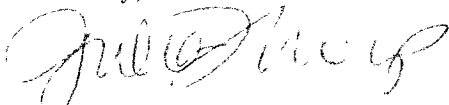
Mr. Tom Martin, President  
August 21, 2015  
Page 2

Office within 10 days from the date of this letter. At that time, PWS Team Leader Ms. Julia Thorp, will schedule a violation review meeting to be conducted 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 the contested violation.

If you or members of your staff have any questions, please feel free to contact Ms. Olivo, in the Houston Region Office at (713) 767-3650.

Sincerely,



Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/DBO/mar

Enclosure: Summary of Investigation Findings

cc: Montgomery County Environmental Health Services

# Summary of Investigation Findings

AUTUMN ACRES WATER SYSTEM	Investigation # 1252612
, MONTGOMERY COUNTY,	Investigation Date: 07/23/2015
Additional ID(s): 1700756	

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

Track No: 580384      Compliance Due Date: To Be Determined  
30 TAC Chapter 290.45(b)(1)(C)(i)

**Alleged Violation:**

Investigation: 1252612

Comment Date: 08/13/2015

**Capacity Requirement**

Failure to provide minimum well capacity of 1.5 gallons per minute per connection.

At the time of the inspection the facility had a total of 43 active connections and is required to provide 1.5 gallons per minute (gpm) per connection (conn). Your well produced a total of 52 gpm and is short a total of 12.5 gpm. This is calculated in the following manner:

(Required Calculation) the amount of water a system is required to provide  
 $1.5 \text{ gpm /conn} \times 43 \text{ conn.} = 64.5 \text{ gpm Required}$

(Short Calculation) the amount of water the system is short  
 $64.5 \text{ gpm Required} - 52 \text{ gpm Produced} = 12.5 \text{ gpm Short}$

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or distribution facilities. Public water systems shall submit plans and specifications for the proposed changes upon request.

The water system may request an exception to these requirements by writing to TCEQ, Water Supply Division, Public Drinking Water Section, Technical Review & Oversight, MC 159, P.O. Box 13087, Austin, TX 78711-3087; phone: (512) 239-4691.

**Recommended Corrective Action:** Submit a compliance plan, engineering report or certification OR a copy of a letter requesting an exception in addition to a compliance plan for final compliance, OR a copy of a letter granting an exception to verify compliance.



Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 28, 2015

Mr. Tom A. Martin, President  
Crystal Springs Water Company, Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Comprehensive Compliance Investigation at:  
Bennett Woods, on Bennett Woods Rd., Montgomery County, Texas  
Regulated Entity No.: 102684636, TCEQ ID No.: 1700290, Investigation No.: 1281931

Dear Mr. Martin:

On September 30, 2015, Ms. Christina Bernal of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Christina Bernal in the Houston Region Office at (713) 767-3650.

Sincerely,

A handwritten signature in cursive script, appearing to read "Julia Thorp".

Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/CB/ra

cc: Montgomery County Environmental Health Services

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



*Warm  
LAD*

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

August 4, 2015

Mr. Tom Martin, President  
Crystal Springs Water Co. Inc.  
P O Box 603  
Porter, Texas 77356-0603

Re: Comprehensive Compliance Investigation at:  
Chaparral Place Water System, Off Loop 494, Porter, Montgomery Co., Texas  
Regulated Entity No.: 102683398  
TCEQ ID No.: 1700434

Investigation No.: 1253333

Dear Mr. Martin:

On July 08, 2015, Ms. Alethea Seals, of the Texas Commission on Environmental Quality (TCEQ), Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for public water supply systems. No violations were documented during the investigation. Please be aware that additional violations may be documented based upon further review of records or self-reporting. At this time, your public water supply continues to merit recognition as a Superior system.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Seals, in the Houston Region Office at (713)767-3595.

Sincerely,

Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/AS/mar

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 14, 2015

Mr. Tom A. Martin, President  
Crystal Springs Water Co Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Comprehensive Compliance Investigation at:  
Crystal Springs Water Country West, 14785B Old Houston Road, Conroe, Montgomery  
County, Texas  
Regulated Entity No.: 102692324, TCEQ ID No.: 1700435, Investigation No.: 1252577

Dear Mr. Martin:

On July 23, 2015, Ms. Dawn Olivo, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Olivo in the Houston Region Office at (713) 767-3650.

Sincerely,

A handwritten signature in cursive script, appearing to read "Julia Thorp".

Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/OBO/ra

cc: Montgomery County Environmental Health Services

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Zak Covar, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

June 6, 2014

Mr. Tom Martin, President  
Crystal Springs Water Company, Inc.  
P. O. Box 603  
Porter, Texas 77356-0603

Re: Compliance Evaluation Investigation at:  
Crystal Springs Water Company Chasewood, FM 2854, Montgomery County,  
Texas  
TCEQ ID No. 1700622 Regulated Entity No.: 102692068  
Investigation No. 1163667

Dear Mr. Martin:

On March 27, 2014, Ms. Elaine Jackson of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Elaine Jackson in the Houston Region Office at (713)767-3650.

Sincerely,

Handwritten signature of Leticia De Leon in cursive.

Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/ej/kc

cc: Montgomery County Environmental Health Services

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 16, 2016

Tom A. Martin, President  
Crystal Springs Water Co., Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Complaint Investigation at:  
Deer Glen Water System, 20344 Lowe Lane, Porter, Montgomery County, Texas  
Regulated Entity No.: 102672029  
TCEQ ID No.: 1700322  
Investigation No.: 1323035

Dear Mr. Martin:

On March 28, 2016 through April 25, 2016, Mr. Vernon Crandle of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Mr. Crandle, in the Houston Region Office at (713) 767-3727.

Sincerely,

A handwritten signature in black ink, appearing to read "Julia Thorp".

Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/VC/mar

cc: Montgomery County Environmental Health Services

Ben W. Snow, Ph.D., P.E., Chairman  
L. W. Butler, Commissioner  
Zak Gowin, Commissioner  
Richard A. Hulse, P.E., Executive Director

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

1100 West 12th Street, Austin, Texas 78701-1100

April 30, 2015

Mr. Tom Martin., President  
Crystal Springs Water Company Inc.  
PO Box 603  
Porter, Texas 77365-0603


Re: Comprehensive Compliance Investigation at:  
Emeraldwoods, #18 Ranch Road, Huntsville, Walker County, Texas  
Regulated Entity No.: 102685328, TCEQ ID No.: 2360044, Investigation No.:1228935

Dear Mr. Martin:

On March 03, 2015, Ms. Valerie Burkett, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation; however, please see the attached Areas of Concern. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Burkett, in the Houston Region Office at (713) 767-3650.

Sincerely,

  
Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/VB/mar

Enclosure: Summary of Findings

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# Summary of Investigation Findings

EMERALDWOODS	Investigation # 1228935
, WALKER COUNTY,	Investigation Date: 03/03/2015
Additional ID(s): 2360044	

## AREA OF CONCERN

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Track No: 567260

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

**Alleged Violation:**

Investigation 1228935

Comment Date 04/13/2015

Failure to repair the cracked concrete sealing block surrounding Well Number 1 using a flexible, nontoxic, waterproof compound or with a properly constructed and installed sealing block

Specifically, the concrete sealing block surrounding well 1 at Plant 1 was cracked.

**Recommended Corrective Action:** Submit a photograph or completed work order showing that the crack has been repaired to verify compliance.

**Resolution:** On 3/16/2015, the regulated entity took a photograph of the repaired sealing block and text messaged it to the investigator

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Track No: 567262

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

**Alleged Violation:**

Investigation 1228935

Comment Date 04/13/2015

Failure to provide a suitable sampling tap on each well discharge to facilitate the collection of samples for chemical and bacteriological analysis directly from the well. This tap must be installed prior to any treatment

Specifically, the sample tap on the well at plant 2 was after the chlorine injection point

**Recommended Corrective Action:** Submit a photograph or completed work order showing that a sampling tap has been installed on the well at plant 2 prior to treatment to verify compliance

**Resolution:** On 3/16/2015, the regulated entity took a photograph of the sample tap installed prior to treatment and text messaged it to the investigator

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Track No: 567270

30 TAC Chapter 290.43(d)(3)

**Alleged Violation:**

Investigation 1228935

Comment Date 04/13/2015

Failure to equip the pressure tanks with a capacity greater than 1000 gallons with some sanitary means of determining the air-to-water ratio. Galvanized tanks which are not provided with the necessary fittings and which were installed before July 1, 1988, shall be exempt from this requirement

Specifically, the pressure tank at Plant 2 did not have a sight glass. The tank was 2500 gallons and had the necessary fittings.

**Recommended Corrective Action:** Submit a photograph or completed work order showing

Bryan W. Shaw, Ph D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
*Protecting Texas by Reducing and Preventing Pollution*

August 11, 2015

Mr. Tom Martin, President  
Lake Creek Falls  
PO Box 603  
Porter, Texas 77365

Re: Comprehensive Compliance Investigation at:  
Lake Creek Falls, 13535 Park Avenue, Conroe, Montgomery County, Texas  
Regulated Entity No.: 103017869  
TCEQ ID No.: 1700719  
Investigation No.: 1241832

Dear Mr. Martin:

On July 8, 2015, Ms. Maggie Wright, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. No violations are being alleged as a result of the investigation. In addition, please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Wright, in the Houston Region Office at (713) 767-3650.

Sincerely,

Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/MW/mar

cc: Montgomery County Environmental Health Services

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Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



*Learn  
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
*Protecting Texas by Reducing and Preventing Pollution*

August 4, 2015

Mr. Tom Martin, President  
Crystal Springs Water Co. Inc.  
P O Box 603  
Porter, Texas 77356-0603

Re: Comprehensive Compliance Investigation at:  
Lake Louise Subdivision, 15851 Lakewood Dr., Montgomery Co., Texas  
Regulated Entity No.: 102682861  
TCEQ ID No.: 1700184

Investigation No.: 1253362

Dear Mr. Martin:

On July 08, 2015, Ms. Alethea Seals, of the Texas Commission on Environmental Quality (TCEQ), Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for public water supply systems. No violations were documented during the investigation. Please be aware that additional violations may be documented based upon further review of records or self-reporting. At this time, your public water supply continues to merit recognition as a Superior system.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Seals, in the Houston Region Office at (713) 767-3595.

Sincerely,

Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/AS/mar

*lel*

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 13, 2016

Mr. Tom A. Martin, President  
Crystal Springs Water Company Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Notice of Compliance with Notice of Violation (NOV) dated February 16, 2016:  
Live Oak Estates, FM 1314 Live Oak Dr., Porter, Montgomery County, Texas  
Regulated Entity No.: 102673456, TCEQ ID No.: 1700198, Investigation No. 1324425

Dear Mr. Martin:

On April 1, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received adequate compliance documentation to resolve the alleged violations documented during the investigation of the above-referenced regulated entity conducted on December 22, 2015. Based on the information submitted, no further action is required concerning this investigation.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions, please feel free to contact Ms. Maggie Wright in the Houston Region Office at (713) 767-3650.

Sincerely,

A handwritten signature in cursive script that reads "Latrichia Spikes".

Latrichia Spikes, Team Leader  
Public Water Supply  
Houston Region Office

LS/MW/ra

Enclosure: *Summary of Investigation Findings*

cc: Montgomery County Environmental Health Services

# Summary of Investigation Findings

LIVE OAK ESTATES	Investigation # 1324425
, MONTGOMERY COUNTY,	Investigation Date: 04/11/2016
Additional ID(s): 1700198	

## ALLEGED VIOLATION(S) NOTED AND RESOLVED

Track No: 593834

30 TAC Chapter 290.46(s)(1)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 01/25/2016

Testing Equipment

Failure by the regulated entity to calibrate the well meters required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

At the time of the investigation, the operator did not provide a copy of the well meters calibration reports for the investigator to review.

Investigation: 1324425

Comment Date: 04/11/2016

Testing Equipment

Failure by the regulated entity to calibrate the well meters required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

At the time of the investigation, the operator did not provide a copy of the well meters calibration reports for the investigator to review.

**Recommended Corrective Action:** Submit a copy of the current well meters calibration reports to verify compliance.

**Resolution:** April 1, 2016 received by mail a copy of the invoice for the new meter.

Track No: 593835

30 TAC Chapter 290.121(a)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 02/04/2016

Monitoring Plan

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations.

At the time of investigation, the monitoring plan needed to be updated.

Investigation: 1324425

Comment Date: 04/11/2016

Monitoring Plan

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations.

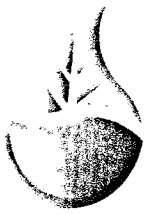
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At the time of investigation, the monitoring plan needed to be updated.

**Recommended Corrective Action:** Submit a letter certifying that a system monitoring plan has been completed OR a copy of the Monitoring Plan to verify compliance.

**Resolution:** April 1, 2016 received by mail a copy of the updated monitoring plan

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# Crystal Springs

WATER COMPANY

March 28, 2016

Latrighia Spikes  
Team Leader, Public Water Supply  
Houston Region, TCEQ  
5425 Polk St., Suite H  
Houston, Texas 77023-1452

RE: Live Oak Estates, ID 1700198  
Investigation 1295349

Latrighia;

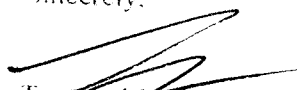
We appreciate the visit from Ms. Maggie Wright, meeting with Larry Purcell, our President/General Manager, to inspect our Live Oak System from Dec. 22, 2015 till Jan. 11, 2016.

Listed below is our corrective action.

- Item 1 - Well meter calibration  
Attached are current ~~well~~ meters calibrations *new meter installed*
- Item 2 - Monitoring Plan  
Attached is a copy of our current monitoring plan.  
It was in the book at time of inspection
- Item 3 - Design and Construction - Storage Tank  
As your letter noted, copies of the ground storage inspection reports were submitted by email on 1/1/16
- Item 4 - Design and Construction - Pressure Tank  
As your letter notes, copies of the pressure tank inspection reports were emailed on 1/11/16

This system is now fully in compliance.

Sincerely,

  
Tom A. Martin, CEO  
Crystal Springs Water Co., Inc

Bryana W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 16, 2016

**CERTIFIED MAIL #7013 3020 0000 9763 8603**  
**RETURN RECEIPT REQUESTED**

Mr. Tom A. Martin, President  
Crystal Springs Water Company Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Notice of Violation for the Comprehensive Compliance Investigation at:  
Live Oak Estates, FM 1314 Live Oak Dr., Porter, Montgomery County, Texas  
Regulated Entity No.: 102673456, TCEQ ID No.: 1700198 Investigation No.: 1295349

Dear Mr. Martin:

On December 22, 2015 – January 11, 2016, Ms. Maggie Wright of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced facility to evaluate compliance with the applicable requirements for public water supply systems. Enclosed is a summary which lists the investigation findings. During the investigation, certain outstanding alleged violations were identified for which compliance documentation is required. Please submit to this office by May 13, 2016, a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for each of the outstanding alleged violations. Please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

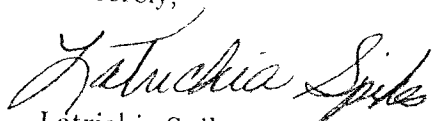
In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.texas.gov> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Houston Region Office at (713) 767-3650 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 Houston Region Office within 10 days from the date of this letter. At that time, PWS Team Leader Ms. Latrichia Spikes, will schedule a violation review meeting to be conducted within 21 days from the date of this letter.

Mr. Tom A. Martin, President  
Page 2  
February 16, 2016

If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Maggie Wright in the Houston Region Office at (713) 767-3650.

Sincerely,

  
Latrichia Spikes, Team Leader  
Public Water Supply  
Houston Region Office

LS/MW/ra

cc: Montgomery County Environmental Health Services

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

*Level  
I need to  
conform to  
letter - with  
John*

LIVE OAK ESTATES  
MONTGOMERY COUNTY,  
Additional ID(s): 1700198  
Investigation # 1295349  
Investigation Date: 12/22/2015

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

Track No: 593834 Compliance Due Date: 05/13/2016  
30 TAC Chapter 290.46(s)(1)

Alleged Violation:  
Investigation: 1295349

Comment Date: 01/25/2016

Testing Equipment  
Failure by the regulated entity to calibrate the well meters required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

At the time of the investigation, the operator did not provide a copy of the well meters calibration reports for the investigator to review.

**Recommended Corrective Action:** Submit a copy of the current well meters calibration reports to verify compliance.

*we have until  
Mon  
[Signature]*

*Is this done?  
yes  
In place*

Track No: 593835 Compliance Due Date: 03/14/2016  
30 TAC Chapter 290.121(a)

Alleged Violation:  
Investigation: 1295349

Comment Date: 02/04/2016

Monitoring Plan  
Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations.

At the time of investigation, the monitoring plan needed to be updated.

**Recommended Corrective Action:** Submit a letter certifying that a system monitoring plan has been completed OR a copy of the Monitoring Plan to verify compliance.

*[Signature]  
yes  
I have  
2013!*

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

Track No: 593826  
30 TAC Chapter 290.46(f)(3)(D)(ii)  
30 TAC Chapter 290.46(m)(1)(A)

Alleged Violation:  
Investigation: 1295349

Comment Date: 02/04/2016

Design and Construction of Storage Tanks  
Failure to conduct an inspection of the ground storage tanks at least annually, to determine that the vents are in place and properly screened, the roof hatches closed and locked, flap valves and gaskets provide adequate protection against insects, rodents, and other vermin,



and that the interior and exterior coating systems are continuing to provide adequate protection to all metal surfaces, and that the tank remains in a watertight condition

Records

Failure to maintain and record the results of these inspections for at least five years. The records must be available for review by Commission staff during annual sanitary surveys of the system

At the time of the investigation, the operator did not provide a copy of the current internal or external ground storage tank inspection reports for the investigator to review.

**Recommended Corrective Action:** Submit a copy of the current internal and external ground storage tank inspection reports to verify compliance

**Resolution:** Copies of the ground storage tank inspection reports were submitted by email on January 11, 2016

✓

Track No: 593833

30 TAC Chapter 290.46(f)(3)(D)(ii)

30 TAC Chapter 290.46(m)(1)(B)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 02/04/2016

**Design and Construction of Pressure Tanks**

Failure to conduct an inspection of the pressure tanks annually, to determine that the pressure release device and pressure gauge are working properly, the air-water ratio is being maintained at the proper level, the exterior coating systems are continuing to provide adequate protection to all metal surfaces, and that the tank remains in a watertight condition. Pressure tanks provided with an inspection port must have the interior surface inspected every five years

**Design and Construction of Pressure Tanks**

Failure to record and maintain the results of pressure tank inspections for a minimum of five years. The records must be available for review by Commission staff during annual sanitary surveys of the system.

At the time of the investigation, the operator did not provide a copy of the current internal or external pressure tank inspection reports for the investigator to review

**Recommended Corrective Action:** Submit a copy of the current internal and external pressure tank inspection reports to verify compliance.

**Resolution:** Copies of the pressure tank inspection reports were submitted by email on January 11, 2016.

✓

# Summary of Investigation Findings

LIVE OAK ESTATES	Investigation # 1295349
, MONTGOMERY COUNTY,	Investigation Date: 12/22/2015
Additional ID(s): 1700198	

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

Track No: 593834 Compliance Due Date: 05/13/2016  
30 TAC Chapter 290.46(s)(1)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 01/25/2016

**Testing Equipment**

Failure by the regulated entity to calibrate the well meters required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years

At the time of the investigation, the operator did not provide a copy of the well meters calibration reports for the investigator to review.

**Recommended Corrective Action:** Submit a copy of the current well meters calibration reports to verify compliance.

Track No: 593835 Compliance Due Date: 03/14/2016  
30 TAC Chapter 290.121(a)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 02/04/2016

**Monitoring Plan**

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations.

At the time of investigation, the monitoring plan needed to be updated.

**Recommended Corrective Action:** Submit a letter certifying that a system monitoring plan has been completed OR a copy of the Monitoring Plan to verify compliance

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

Track No: 593826  
30 TAC Chapter 290.46(f)(3)(D)(ii)  
30 TAC Chapter 290.46(m)(1)(A)

**Alleged Violation:**

Investigation: 1295349

Comment Date: 02/04/2016

**Design and Construction of Storage Tanks**

Failure to conduct an inspection of the ground storage tanks at least annually, to determine that the vents are in place and properly screened, the roof hatches closed and locked, flap valves and gaskets provide adequate protection against insects, rodents, and other vermin,

# Summary of Investigation Findings

LIVE OAK ESTATES	Investigation # 1295349
, MONTGOMERY COUNTY,	Investigation Date: 12/22/2015
Additional ID(s): 1700198	

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

Track No: 593834 Compliance Due Date: 05/13/2016  
30 TAC Chapter 290.46(s)(1)

**Alleged Violation:**

Investigation: 1295349

Comment Date 01/25/2016

**Testing Equipment**

Failure by the regulated entity to calibrate the well meters required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years

At the time of the investigation, the operator did not provide a copy of the well meters calibration reports for the investigator to review

**Recommended Corrective Action:** Submit a copy of the current well meters calibration reports to verify compliance.

Track No: 593835 Compliance Due Date: 03/14/2016  
30 TAC Chapter 290.121(a)

**Alleged Violation:**

Investigation: 1295349

Comment Date 02/04/2016

**Monitoring Plan**

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations.

At the time of investigation, the monitoring plan needed to be updated

**Recommended Corrective Action:** Submit a letter certifying that a system monitoring plan has been completed OR a copy of the Monitoring Plan to verify compliance.

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

Track No: 593826  
30 TAC Chapter 290.46(f)(3)(D)(ii)  
30 TAC Chapter 290.46(m)(1)(A)

**Alleged Violation:**

Investigation: 1295349

Comment Date 02/04/2016

**Design and Construction of Storage Tanks**

Failure to conduct an inspection of the ground storage tanks at least annually, to determine that the vents are in place and properly screened, the roof hatches closed and locked, flap valves and gaskets provide adequate protection against insects, rodents, and other vermin,

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# MONITORING PLAN TEMPLATE FOR A GROUNDWATER SYSTEM

## Monitoring Plan For

Name of System: LIVE OAK EST.  
 Date of Monitoring Plan March 19, 2014  
 PWS ID#: .1700198 MONTG. County, Texas  
 Responsible Official: LARRY PURCELL Title: MGR.  
 Water Supply Contact Name: CRYSTAL SPRINGS WATER

Mailing Address: PO BOX 603 Porter Texas 77365  
 (system includes 2 groundwater wells and 2 entry points The water system serves  
128 metered connections

**A. RAW WATER SAMPLING ( )**

We / are not required to collect raw water samples.

**B. IN – PLANT SAMPLING**

Our treatment is chlorination / PO4 LMI CHEMICAL FEED PUMPS@ 5 GAL PER DAY RATEING PER WELL

We use hypochlorite / chlorine to disinfect the water.

**C. ENTRY POINT SAMPLING**

Entry Point	Sample Site	Source	Plant Name
EP001-	Sample tap on WELL HEADER	Gulf Coast Aquifer	WELL1
EP002	Sample tap on Well Header	Gulf Coast	Well 2

**1. Disinfectant Entering the Distribution System**

System Name: LIVE OAK EST. PWS ID : 1700198

Our system uses free chlorine in the distribution system.

- a. Frequency: Disinfectant residual is measured once week.
- b. Location: The residual for the entry point is measured at the sample tap on the Pressure Line entering the tank .c. Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.
- d. Compliance calculations: The system is in compliance if the free chlorine residual entering the distribution system is over 0.22 mg / L.

## 2. Organic Chemicals, Inorganic Chemicals, and Radiochemical

- a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in the sampling schedule are attached to the back of this monitoring plan.
- b. Location: The contaminant concentrations for the entry point are measured at the sample tap on the pump header.
- c. Method: Samples are sent to a certified lab (TDH / LCRA) by the TCEQ's sampling contractor.
- d. Compliance Calculations: If the concentrations of contaminants are less than the regulatory maximum contaminant levels, our system is in compliance. The TCEQ will inform us of violations. Copies of any letters informing us of violations will be attached in the back of this monitoring plan.

## 3. Chlorine Dioxide

We do not use chlorine dioxide.

## 4. Chlorite

We do not use chlorine dioxide.

## 5. Bromate

We do not use ozone.

## D. DISTRIBUTION SYSTEM SAMPLING

The water is disinfected with free chlorine. Held in storage tanks pumped to pressure tanks.

The water then goes out to the connection (s) in distribution.

1. Coliform Samples

a. Frequency: We collect one coliform sample on the middle / end of each month, so we have time to do repeats, if necessary. We rotate through the sample sites below.

b. Location: The sample is taken from the outside tap at the following locations:

1. 16901 LIVE OAK BRANCH

2. 16684 Live oak sq

3. 16822 oak knoll

4. 16954 Little oak

samples are sent to a nearby lab:

Name of Lab: NORTH WATER DIST LAB

Attn: Deena

Phone: 936-321-6060

Mailing / Physical Address: 8725 Fawn Trail The Woodlands

d. Compliance Calculations: The system is in compliance if:

- no repeat samples are fecal or E. coli positive

- no repeat following a fecal or E. coli positive routine sample is positive for total coliform

- no more than one of the routine samples are total coliform positive and none of the repeats are fecal or E. coli positive

2. Disinfectant Residual – Free Chlorine

a. Frequency: The disinfectant residual is measured at the same time as microbial samples. The disinfectant residual is also measured once every seven days, rotating through the sample sites.

b. Location: The disinfectant residual is measured at the same place the microbial sample is taken, plus     additional sites representing the whole distribution system. The other sites are the outside taps

c. Method: Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.

d. Compliance Calculations: The system is in compliance with the minimum residual requirement if the free chlorine residual throughout the distribution system is always greater than 0.2 mg/L.

The system is in compliance with the maximum residual disinfectant level (MRDL) if the running annual average of all samples taken in the distribution system is less than 4.0 mg/L.

3. Disinfection Byproducts (DBPs) – TTHM and HAA5

a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in sampling schedule are attached to the back of this monitoring plan.

b. Location: The sample is collected from the outside tap at 1 site listed above.

c. Method: Samples are taken to a certified lab by the TCEQ's sampling contractor.

d. Compliance Calculations: The system is in compliance if the running annual average of all samples is less than the maximum contaminant level.

The TCEQ will notify us of any violations.

1. The TCEQ will notify us of any violations.

5. Asbestos

The TCEQ has assessed our system and determined that we have no asbestos concrete pipe or that asbestos is not regulated for our system.

6. Chlorine Dioxide

We do not use chlorine dioxide.

7. Chlorite

We do not use chlorine dioxide.

MONITORING PLAN TEMPLATE  
FOR A GROUNDWATER SYSTEM WITH TWOWELLS

Monitoring Plan For

Name of System: LIVE OAK EST

Date of Monitoring Plan: (due Jan. 1, 2004) \_\_\_\_\_

PWS ID#: 1700066

MONTG. County, Texas

Responsible Official: LARRY PURCELL Title: MGR.

Water Supply Contact Name: CRYSTAL SPRINGS WATER

Mailing Address: P.O. BOX 603

PORTER Texas Zip: 77365

(System Name) LIVE OAK ESTowns and operates TWO groundwater well. The water system serves people with 108 connections. JAN 2004

**A. RAW WATER SAMPLING ( )**

We / are not required to collect raw water samples.

**B. IN - PLANT SAMPLING**

Our treatment is only chlorination /  
We use hypochlorite / chlorine to disinfect the water.

**C. ENTRY POINT SAMPLING**

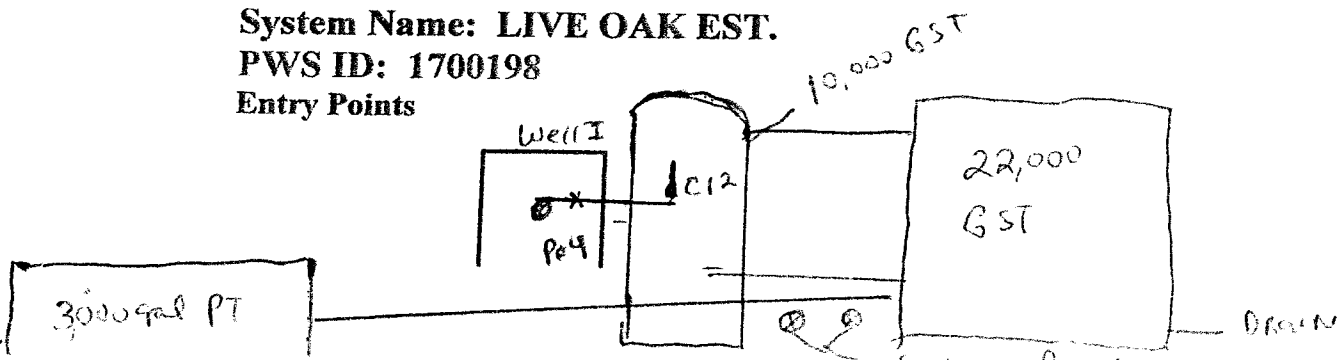
Entry Point	Sample Site	Source	Plant Name
EP001-2-	Sample tap on PRESSURE TANK Located at WATER WELL	Gulf Coast Aquifer	Well 1 2

**1. Disinfectant Entering the Distribution System**

**System Name: LIVE OAK EST.**

**PWS ID: 1700198**

**Entry Points**





Our system uses free chlorine in the distribution system.

- a. Frequency: Disinfectant residual is measured once week.
- b. Location: The residual for the entry point is measured at the sample tap on the pressure tank.
- c. Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.
- d. Compliance calculations: The system is in compliance if the free chlorine residual entering the distribution system is over 0.22 mg / L.

## 2. Organic Chemicals, Inorganic Chemicals, and Radiochemical

- a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in the sampling schedule are attached to the back of this monitoring plan.
- b. Location: The contaminant concentrations for the entry point are measured at the sample tap on the pressure / storage tank.
- c. Method: Samples are sent to a certified lab (TDH / LCRA) by the TCEQ's sampling contractor.
- d. Compliance Calculations: If the concentrations of contaminants are less than the regulatory maximum contaminant levels, our system is in compliance. The TCEQ will inform us of violations. Copies of any letters informing us of violations will be attached in the back of this monitoring plan.

## 3. Chlorine Dioxide

We do not use chlorine dioxide.

## 4. Chlorite

We do not use chlorine dioxide.

## 5. Bromate

We do not use ozone.

## D. DISTRIBUTION SYSTEM SAMPLING

The distribution system consists of 108 connectons. The system has 22,000 gal . ~~at~~ <sup>for a</sup> 10,000  
GST @ A 3,000 GAL PRESSURE TANK ON SITE 1 @ A ~~3,000~~ 900 GAL PRESSURE  
ON SITE 2

The water is disinfected with free chlorine. It is stored in a pressure tanks..  
The water then goes out to the connection (s) in distribution.

1. Coliform Samples

a. Frequency: We collect one coliform sample on the middle / end of

each month, so we have time to do repeats, if necessary. We rotate through the sample sites below.

b. Location: The sample is taken from the outside tap at the following locations:

1.16901 LIVE OAK BRANCH

2.16684 LIVE OAK SQ

3.16822 OAK KNOLL

4..16954 LITTLE OAK

c. Method: Coliform samples are sent to a nearby lab:

Name of Lab: Nova Biologicals

Attn:

Phone:936-756-5333

Mailing / Physical Address: 1775 E. Loop 336 Suite 4 Conroe Texas 77301

d. Compliance Calculations: The system is in compliance if:

- no repeat samples are fecal or E. coli positive

- no repeat following a fecal or E. coli positive routine sample is positive for total

- coliform

- no more than one of the routine samples are total coliform positive and none of the repeats are fecal or E. coli positive

2. Disinfectant Residual – Free Chlorine

a. Frequency: The disinfectant residual is measured at the same time as microbial samples. The disinfectant residual is also measured once every seven days, rotating through the sample sites.

b. Location: The disinfectant residual is measured at the same place the microbial sample is taken, plus 1 additional sites representing the whole distribution system. The other sites are the outside taps 16954 LITTLE OAK

c. Method: Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.

d. Compliance Calculations: The system is in compliance with the minimum residual requirement if the free chlorine residual throughout the distribution system is always greater than 0.2 mg/L.

The system is in compliance with the maximum residual disinfectant level (MRDL) if the running annual average of all samples taken in the distribution system is less than 4.0 mg/L.

3. Disinfection Byproducts (DBPs) – TTHM and HAA5

a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in sampling schedule are attached to the back of this monitoring plan.

b. Location: The sample is collected from the outside tap at 16954 LITTLE OAK

c. Method: Samples are taken to a certified lab by the TCEQ's sampling contractor.

d. Compliance Calculations: The system is in compliance if the running annual average of all samples is less than the maximum contaminant level.

The TCEQ will notify us of any violation.

4. Lead - Copper

Our system has / received an "all plastic waiver" from the TCEQ and will no longer be sampled for lead or copper, or our system is not required to collect lead and copper samples.

5. Asbestos

The TCEQ has assessed our system and determined that we have no asbestos concrete pipe or that asbestos is not regulated for our system.

6. Chlorine Dioxide

We do not use chlorine dioxide.

7. Chlorite

We do not use chlorine dioxide.

13.01

# Worksheet for Disinfectant Residuals Collected with Coliform Samples For Any System Collecting More than One Coliform Sample

This worksheet is provided to help systems keep track of the residual disinfectant that you collect with your coliform samples  
Do not send this worksheet to us. You should send your results to us on the DL QOR form.

<b>PWS Name:</b> LIVEOAK EST.	<b>PWS ID:</b> 1700198
<b>MONTH:</b>	

Disinfectant Residual Collected with Coliform Samples

	Sample Date	Sample Site	Residual	Less than MIN? 1 = Y	NO Residual? 1 = Y
1		16822 OAK KNOLL			
2		16901 LIVE OAK BRANCH			
3		16684 LIVE OAK SQ			
4		16954 LITTLE OAK			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
29					
30					
31					
<b>Total Samples</b>	4	<b>Average Residual</b>	<b>#DIV/0!</b>	0	0

85

## **PORTABLE WATER TANK INSPECTION PROGRAM PLANT BE LIVE OAK ESTATES**

I. Ground storage, elevated, stand pipe, clear wells and pressure tanks are required by TNRCC, 30 TAC 290,46 (p) to be inspected at least once a year by water system personnel or a contracted inspection service. TNRCC Rules require water system to keep records of the inspection for at least five years. The form on page 4 may be used to document annual inspections.

This will ensure the tank is in good working order and will keep the system officials aware of the condition of the tank and any maintenance or repairs that need to be budgeted for on any unit.

Although, TNRCC Rules require annual inspections, monthly tank inspection and maintenance is recommended to ensure continued tank integrity and to preserve water quality. The form on page 3 may be used as a monthly checklist for tank maintenance.

There are two type of inspections, physical inspection and mechanical inspection. All documentation of the inspection should be kept on file.

### **II. Physical Inspection- Ground Water Storage Tanks.**

The water system operator(s) can do the physical inspection. The visual inspection should occur on a monthly and yearly basis. The operator is inspecting to determine the condition of the tank and to ensure its longevity.

#### **A. Monthly inspecting of the rooftop**

1. The operator should inspect the vents and ventilators to make sure they are working properly and are screened to ensure no entry of insects or birds or other varmints.
2. The operator should check the access hatch to ensure that it is located and all is intact.
3. The operator should look inside the tank to see if there is floating debris or oil, this is a good indicator of the condition of the water, physically.
4. Check to see if there are low spots on the roof, which would allow ponding.

This visual inspection is a good indicator of the tank roof structure.

#### **B. Yearly Inspection of the roof top**

1. The operator should check the roof-welded seams for cracks and corrosion.
2. Bolted structured tanks should be checked for loose bolts or loose guardrails
3. Check the tank paint coating and look for unprotected areas and rust pits.

**POTABLE WATER STORAGE TANK  
Inspection Form**

“Section 290.46(p)(2) of the Texas Natural Resource Conservation Commission’s Rules and Regulations for public Water Systems requires documentation of annual ground, elevated and pressure storage tank maintenance inspections.”

<b>Location</b>	<b>LIVE OAK ESTATES 1</b>
<b>Description</b>	<b>22,000 GST</b>
<b>Date &amp; Material of Exterior Coating System</b>	
<b>Date &amp; Material of Interior Coating System</b>	

**Exterior of Tank**

O.K.	Problem	NA	Description
OK			<b>Foundation:</b> settling, cracks, deterioration
OK			<b>Protective Coating:</b> rust, pitting, corrosion, leaks
OK			<b>Water Level Indicator:</b> operable, cable access opening protected
OK			<b>Overflow Pipe:</b> flap valve cover accessible, operable, sealed
OK			<b>Access Ladder:</b> loose bolts or rungs
OK			<b>Roof:</b> low spots for ponding water, holes along seams, rust
OK			<b>Air vents:</b> proper design, screened, sealed edges and seams
			<b>Cathodic Protection Anode Plates:</b> secured and sealed
OK			<b>Roof Hatch:</b> proper design, locked, hinge bolts secured, gasket
OK			<b>Pressure Tank Operational Status:</b> pressure release device, pressure gauge, air-water volume device

**Exterior of Tank**

	Problem		Description
OK			<b>Water Quality:</b> insects, floating debris, sediment on the bottom
OK			<b>Protective Coating:</b> rust, corrosion, scaling
Date			<b>Last Inspection of Pressure Tank Interior</b>

**Comments**

<b>Name of Inspector</b>	<b>LARRY PURCELL</b>
<b>Date of Inspection</b>	

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 14, 2015

Mr. Tom A. Martin, President  
Crystal Springs Water Co. Inc.  
PO Box 603  
Porter, Texas 77365-0603

Re: Notice of Violation for the Comprehensive Compliance Investigation at:  
Oak Creek II, 16110B Oak Creek Lane, Splendora, Montgomery County, Texas  
Regulated Entity No.: 102689197, TCEQ ID No.: 1700432 , Investigation No.: 1252567

Dear Mr. Martin:

On July 23, 2015, Ms. Dawn Olivo, of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for Public Water Supply. Enclosed is a summary which lists the investigation findings. During the investigation, a concern was noted which was an alleged noncompliance that has been resolved based on subsequent corrective action. Based on the information you have provided, the TCEQ has adequate documentation to resolve the alleged violation. Therefore, no further action is required. Please be advised that a violation could be issued upon further review of your system's records or self-reported documentation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Olivo in the Houston Region Office at (713) 767-3650.

Sincerely,

A handwritten signature in black ink, appearing to read "Julia Thorp".

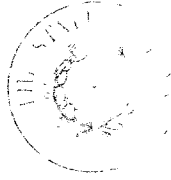
Julia Thorp, Team Leader  
Public Water Supply  
Houston Region Office

JT/DBO/ra

cc: Montgomery County Environmental Health Services

Enclosure: Summary of Investigation Findings

Bryan W. Shaw, Ph D , P.E., *Chairman*  
Toby Baker, *Commissioner*  
Zak Covar, *Commissioner*  
Richard A Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

March 31, 2014

*Protecting Texas by Reducing and Preventing Pollution*

Mr. Tom Martin, President  
Crystal Springs Water Company, Inc.  
PO Box 603  
Porter, Texas 77365-0603

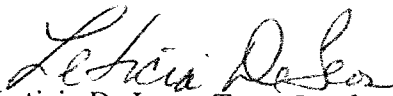
Re: Notice of Compliance with Notice of Violation (NOV) dated December 16, 2013:  
Rolling Hills Oaks Subdivision, Rolling Hills Drive, Montgomery County, Texas  
Regulated Entity No.: 102691821, TCEQ ID No.: 1700058, Investigation No.: 1158392

Dear Mr. Martin:

On March 26, 2014, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received adequate compliance documentation to resolve the alleged violations documented during the investigation of the above-referenced regulated entity conducted on November 1, 2013. Based on the information submitted, no further action is required concerning this investigation.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions, please feel free to contact Ms. Jennifer Sapp in the Houston Region Office at (713)767-3650.

Sincerely,

  
Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office

LD/JS/ra

Enclosure: *Summary of Investigation Findings*

cc: Montgomery County Environmental Health Services



# Summary of Investigation Findings

ROLLING HILLS OAKS SUBDIVISION	Investigation # 1158392
, MONTGOMERY COUNTY,	Investigation Date: 03/27/2014
Additional ID(s): 1700058	

## ALLEGED VIOLATION(S) NOTED AND RESOLVED

Track No: 520989

30 TAC Chapter 290.46(s)(1)

**Alleged Violation:**

Investigation: 1128278

Comment Date: 12/03/2013

30 TAC, §290.46(s)(1) Testing Equipment

Failure by the regulated entity to calibrate the well meter required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

During the investigation, well meter calibration records were not provided for review.

Investigation: 1158392

Comment Date: 03/27/2014

30 TAC, §290.46(s)(1) Testing Equipment

Failure by the regulated entity to calibrate the well meter required by 30 TAC 290.41(c)(3)(N) according to the manufacturer's specifications at least once every three years.

During the investigation, well meter calibration records were not provided for review.

**Recommended Corrective Action:** Submit copies of well calibration records to verify compliance.

**Resolution:** Compliance documentation was submitted to TCEQ on March 26, 2014.

Track No: 520992

30 TAC Chapter 290.112(a)

**Alleged Violation:**

Investigation: 1128278

Comment Date: 12/03/2013

30 TAC, §290.121(a) Monitoring Plan

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations

During the investigation, the monitoring plan was not provided for review.

Investigation: 1158392

Comment Date: 03/27/2014

30 TAC, §290.121(a) Monitoring Plan

Failure to develop and maintain an up to date system monitoring plan. The plan shall identify all bacteriological and chemical locations, describe the sampling frequency, and specify the analytical procedures and laboratories to be used to comply with monitoring requirements. The completed plan must be retained at each water plant, and made available for review during succeeding investigations

During the investigation, the monitoring plan was not provided for review

**Recommended Corrective Action:** Submit a letter certifying that a system monitoring plan has been completed OR a copy of Monitoring Plan to verify compliance

Resolution: Compliance documentation was submitted to TCEQ on March 26, 2014

Track No: 520997

30 TAC Chapter 290.45(b)(2)(F)

**Alleged Violation:**

Investigation: 1128278

Comment Date: 12/03/2013

30 TAC, §290.45 Capacity Requirement

Failure to meet this Agency's "Minimum Water System Capacity Requirements." These requirements include.

Failure to provide a minimum service pump capacity such that each pump station or pressure plane must have two or more pumps with a total capacity of 2.0 gallons per minute per connection. If the system provides 200 gallons per connection of elevated storage capacity, it must then provide two service pumps with a minimum combined capacity of 0.6 gallons per minute per connection at each pump station or pressure plane. If only wells and elevated storage are provided, service pumps are not required.

Rolling Hills Oaks Subdivision	39 Conn		
Timberland Estates	386 Conn		
Total	425 Conn		
		Required	Provided
SPS 2.0 GPM/Conn X 425 Conn	850 GPM		750 GPM
SHORT	850gpm Required - 750 gpm Produced = 100 gpm Total		

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or distribution facilities. Public water systems shall submit plans and specifications for the proposed changes upon request.

The water system may request an exception to these requirements by writing to TCEQ, Water Supply Division, Public Drinking Water Section, Technical Review & Oversight, MC 159, P.O. Box 13087, Austin, TX 78711-3087; phone: (512) 239-4691.

Investigation: 1158392

Comment Date: 03/27/2014

Failure to provide a minimum service pump capacity such that each pump station or pressure plane must have two or more pumps with a total capacity of 2.0 gallons per minute per connection. If the system provides 200 gallons per connection of elevated storage capacity, it must then provide two service pumps with a minimum combined capacity of 0.6 gallons per minute per connection at each pump station or pressure plane. If only wells and elevated storage are provided, service pumps are not required.

Rolling Hills Oaks Subdivision	39 Conn		
Timberland Estates	386 Conn		
Total	425 Conn		
		Required	Provided
SPS 2.0 GPM/Conn X 425 Conn	850 GPM		750 GPM
SHORT	850gpm Required - 750 gpm Produced = 100 gpm Total		

Your water system must be modified to meet this requirement to assure an adequate supply of water at all times.

Please be advised that public water systems shall notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, or distribution facilities. Public water systems shall submit plans and specifications for the proposed changes upon request.

The water system may request an exception to these requirements by writing to TCEQ, Water

Supply Division, Public Drinking Water Section, Technical Review & Oversight, MC 159, P.O. Box 13087, Austin, TX 78711-3087; phone: (512) 239-4691.

**Recommended Corrective Action:** Submit a compliance plan, engineering report or certification OR a copy of a letter requesting an exception in addition to a compliance plan for final compliance, OR a copy of a letter granting an exception to verify compliance.

**Resolution:** Request made to Austin on March 17, 2014 to dissolve this system. It will become part of Timberland Estates (PWS ID#1700612)

# Crystal Springs Water Co., Inc.

P. O. BOX 603 PORTER, TEXAS 77365 281-354-5136

March 21, 2014

Texas Commission on Environmental Quality  
Leticia De Leon, Team Leader  
Public Water Supply  
Houston Region Office  
5425 Polk St. St. H  
Houston, TX 77023-1457

Rolling Hills  
TCEQ ID 1700053  
Investigation # 112820

Dear Leticia:

I appreciate Ms. Sapp meeting with Larry Purcell and inspecting our Rolling Hills Water System.


As Larry explained to Ms. Sapp, we had combined it with our Timberland System, but were unaware the engineering plans for the combination were not submitted to Austin. Ray Young, Water Engineers, is handling that with your Austin office.

The other violation corrections are noted below:

1. The #2 well meter is less than three years old. It was replaced in May, 2012. The new meter for the #1 well has been installed.
2. Our monitoring plan was in our log book. Ms. Sapp must have overlooked it. Attached is a copy.
3. The minimum system requirements have been taken care of with the combination of Rolling Hills and Timberland. Ray Young, Water Engineers, says the plans are in Austin now.
4. The abandoned well issue is being resolved with the combination of the two systems.
5. Our capacity issues have already been addressed with the addition of Timberland Well #4 and additional ground storage.

Thank you for the review and we hope that all items questioned have been resolved.

Sincerely,



Tom A. Martin  
Crystal Springs Water Co., President

Cc: Ray Young, Water Engineers  
Cc: Larry Purcell, President, Crystal Springs Water Co.

# MONITORING PLAN TEMPLATE FOR A GROUNDWATER SYSTEM

## Monitoring Plan For

Name of System: Timberland / Rolling Hills  
 Date of Monitoring Plan March 19, 2014  
 PWS ID#: 1700612 MONTG.        County, Texas  
 Responsible Official: LARRY PURCELL Title: MGR.  
 Water Supply Contact Name: CRYSTAL SPRINGS WATER

Mailing Address: PO BOX 603 Porter Texas 77365  
 (system includes 6 groundwater wells and 3 entry points The water system serves ~~400~~ 627 metered connections)

### A. RAW WATER SAMPLING ( )

We / are not required to collect raw water samples.

### B. IN - PLANT SAMPLING

Our treatment is only chlorination / LMI CHEMICAL FEED PUMP @ 5 GAL PER DAY RATEING PER WELL

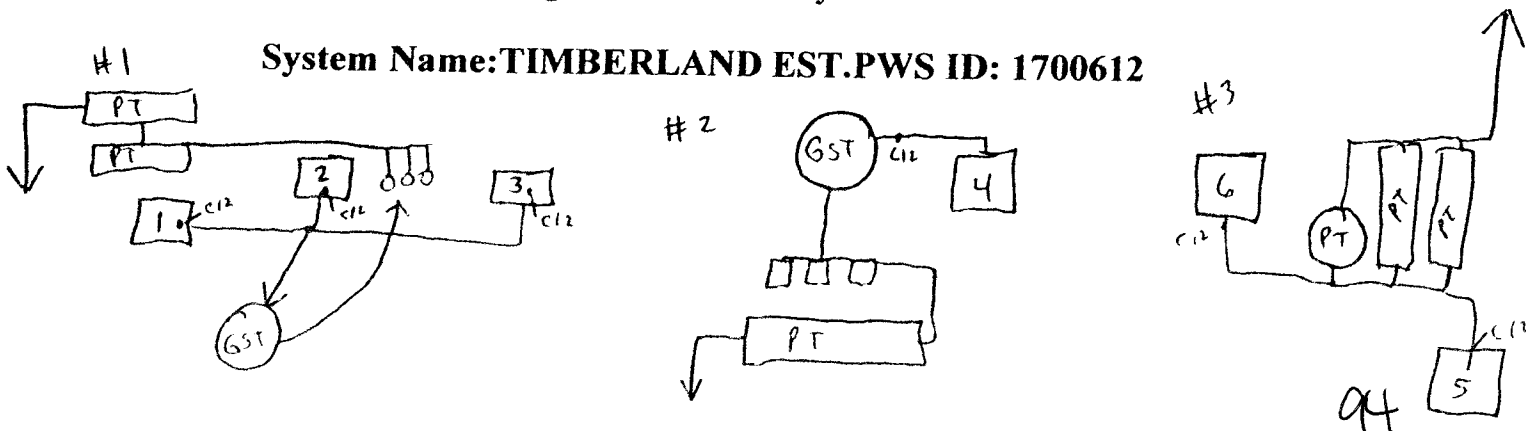
We use hypochlorite / chlorine to disinfect the water.

### C. ENTRY POINT SAMPLING

Entry Point	Sample Site	Source	Plant Name
EP001-	Sample tap on WELL HEADER Timberland Blvd.	Gulf Coast Aquifer	WELL1,2,3
EP002	Sample tap on Well Header Erica Ct.	Gulf Coast	Well 4
EP003	Sample Tap On Well Header Rolling Hills Blvd	Gulf Coast	Well 5, 6

#### 1. Disinfectant Entering the Distribution System

System Name: TIMBERLAND EST. PWS ID: 1700612



Our system uses free chlorine in the distribution system.

- a. Frequency: Disinfectant residual is measured once week.
- b. Location: The residual for the entry point is measured at the sample tap on the Pressure Line entering the tank .c. Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.
- d. Compliance calculations: The system is in compliance if the free chlorine residual entering the distribution system is over 0.22 mg / L.

## 2. Organic Chemicals, Inorganic Chemicals, and Radiochemical

- a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in the sampling schedule are attached to the back of this monitoring plan.
- b. Location: The contaminant concentrations for the entry point are measured at the sample tap on the pump header.
- c. Method: Samples are sent to a certified lab (TDH / LCRA) by the TCEQ's sampling contractor.
- d. Compliance Calculations: If the concentrations of contaminants are less than the regulatory maximum contaminant levels, our system is in compliance. The TCEQ will inform us of violations. Copies of any letters informing us of violations will be attached in the back of this monitoring plan.

## 3. Chlorine Dioxide

We do not use chlorine dioxide.

## 4. Chlorite

We do not use chlorine dioxide.

## 5. Bromate

We do not use ozone.

## D. DISTRIBUTION SYSTEM SAMPLING

The water is disinfected with free chlorine. Held in storage tanks pumped to pressure tanks.

The water then goes out to the connection (s) in distribution.

627 (4-19-14)

**TABLE 2  
COMBINED ROLLING HILLS OAKS AND TIMBERLAND ESTATES WATER SYSTEM  
CAPACITY RATING & EXPANSION PLAN**

	2012 Facility Rating			2013 As-Built Expansion WTP Rating			Future Expansion WTP Rating		
	Units	TCEQ Std/ ESFC	Total ESFC	Units	TCEQ Std/ ESFC	Total ESFC	Units	TCEQ Std/ ESFC	Total ESFC
<b>Well Supply</b>									
Timberland South WP Well # 1, gpm	55	0.6	92	55	0.6	92	55	0.6	92
Timberland South WP Well # 2, gpm	82	0.6	137	82	0.6	137	82	0.6	137
Timberland South WP Well # 3, gpm	82	0.6	137	82	0.6	137	82	0.6	137
Timberland North WP Well # 1, gpm	0	0.6	0	0	0.6	0	0	0.6	0
Timberland North WP Well # 2, gpm	0	0.6	0	0	0.6	0	0	0.6	0
Rolling Hills Oaks WP Well # 1, gpm	0	0.6	0	0	0.6	0	0	0.6	0
Rolling Hills Oaks WP Well # 2, gpm	0	0.6	0	0	0.6	0	0	0.6	0
Total Capacity, gpm	219	0.6	365	219	0.6	365	219	0.6	365
<b>Ground Storage</b>									
Timberland South GST # 1 Volume, gal	105,000	200	525	105,000	200	525	105,000	200	525
Timberland North GST # 1 Volume, gal	0	200	0	0	200	0	0	200	0
Timberland North GST # 2 Volume, gal	0	200	0	0	200	0	0	200	0
Total Volume	105,000	200	525	105,000	200	525	105,000	200	525
<b>Booster Pumping Capacity</b>									
Timberland South BP #1, gpm	250	2	125	250	2	125	250	2	125
Timberland South BP #2, gpm	350	2	175	350	2	175	350	2	175
Timberland North BP #1, gpm	0	2	0	0	2	0	0	2	0
Timberland North BP #2, gpm	0	2	0	0	2	0	0	2	0
Timberland North BP #3, gpm	0	2	0	0	2	0	0	2	0
Total Capacity, gpm	600	2	300	600	2	300	600	2	300
<b>Hydropneumatic Tank</b>									
Timberland South HPT # 1 Volume, gal	2,500	20	125	2,500	20	125	2,500	20	125
Timberland South HPT # 2 Volume, gal	5,000	20	250	5,000	20	250	5,000	20	250
Timberland North HPT # 1 Volume, gal	0	20	0	0	20	0	0	20	0
Timberland North HPT # 2 Volume, gal	0	20	0	0	20	0	0	20	0
Rolling Hills Oaks HPT # 1, gal	0	20	0	0	20	0	0	20	0
Rolling Hills Oaks HPT # 2, gal	0	20	0	0	20	0	0	20	0
Rolling Hills Oaks HPT # 3, gal	0	20	0	0	20	0	0	20	0
Total Volume, gal	7,500	20	375	7,500	20	375	7,500	20	375
<b>Overall System Capacity, ESFC</b>									
			300			750			1013
<b>System Capacity @ TCEQ 85% Rule</b>									
			255			638			861

96

1. Coliform Samples

a. Frequency: We collect one coliform sample on the middle / end of each month, so we have time to do repeats, if necessary. We rotate through the sample sites below.

b. Location: The sample is taken from the outside tap at the following locations:

1. 19311 Sara Deann

2. 19250 Amy Ln

3. 19103 Timberland Blvd

4. 18995 Rolling Hills

Coliform samples are sent to a nearby lab:

Name of Lab: NORTH WATER DIST LAB

Attn: WENDY

Phone: 936-321-6060

Mailing / Physical Address: 8725 FAWN TRAIL THE WOODLANDS

d. Compliance Calculations: The system is in compliance if:

- no repeat samples are fecal or E. coli positive
- no repeat following a fecal or E. coli positive routine sample is positive for total coliform
- no more than one of the routine samples are total coliform positive and none of the repeats are fecal or E. coli positive

2. Disinfectant Residual – Free Chlorine

a. Frequency: The disinfectant residual is measured at the same time as microbial samples. The disinfectant residual is also measured once every seven days, rotating through the sample sites.

b. Location: The disinfectant residual is measured at the same place the microbial sample is taken, plus     additional sites representing the whole distribution system. The other sites are the outside taps

c. Method: Chlorine is measured using a colorimeter / DPD; Hach Pocket colorimeter.

d. Compliance Calculations: The system is in compliance with the minimum residual requirement if the free chlorine residual throughout the distribution system is always greater than 0.2 mg/L.

The system is in compliance with the maximum residual disinfectant level (MRDL) if the running annual average of all samples taken in the distribution system is less than 4.0 mg/L.

3. Disinfection Byproducts (DBPs) – TTHM and HAA5

a. Frequency: The TCEQ's sampling contractor collects these samples. Letters informing us of changes in sampling schedule are attached to the back of this monitoring plan.

b. Location: The sample is collected from the outside tap at 1 site listed above.

c. Method: Samples are taken to a certified lab by the TCEQ's sampling contractor.

d. Compliance Calculations: The system is in compliance if the running annual average of all samples is less than the maximum contaminant level.

The TCEQ will notify us of any violation.

4. Lead – Copper



Our system has / received an "all plastic waiver" from the TCEQ and will no longer be sampled for lead or copper, or our system is not required to collect lead and copper samples.

5. Asbestos

The TCEQ has assessed our system and determined that we have no asbestos concrete pipe or that asbestos is not regulated for our system.

6. Chlorine Dioxide

We do not use chlorine dioxide.

7. Chlorite

We do not use chlorine dioxide.

MONITORING PLAN <sup>Two</sup>  
FOR A GROUNDWATER SYSTEM WITH ~~ONE~~ WELLS

Monitoring Plan For

Name of System: ROLLING HILLS

Date of Monitoring Plan MARCH 1, 2007

PWS ID#: 1700058 MONTG. County, Texas

Responsible Official: LARRY PURCELL

Title: MGR.

Water Supply Contact Name: CRYSTAL SPRINGS WATER

Mailing Address: PO BOX 603

PORTER Texas Zip: 77365

(operates 1 groundwater well. The water system serves metered connections

**A. RAW WATER SAMPLING ()**

We / are not required to collect raw water samples.

**B. IN - PLANT SAMPLING**

Our treatment is only chlorination / LMI CHEMICAL FEED PUMP @ 5 GAL PER DAY RATEING

We use hypochlorite / chlorine to disinfect the water.

**C. ENTRY POINT SAMPLING**

Entry Point	Sample Site	Source	Plant Name
EP001-	Sample tap on WELL HEADER	Gulf Coast Aquifer	WELL1 Well 2

**1. Disinfectant Entering the Distribution System**

System Name: **ROLLING HILLS** PWS ID: **1700058**

