

Texas Commission on Environmental Quality Investigation Report

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Customer: Crosby Municipal Utility District
Customer Number: CN600651970

Regulated Entity Name: CROSBY MUD

Regulated Entity Number: RN101439628

Investigation # 1556768

Incident Numbers

Investigator: DESTINY GEPPERT

Site Classification GW >1K-10K CONNECTION
SW >1K-10K CONNECTION

Conducted: 04/11/2019 -- 04/11/2019

SIC Code: 4941

Program(s): PUBLIC WATER SYSTEM/SUPPLY
TIER II
EMERGENCY RESPONSE

Investigation Type: Compliance Investigation

Location: KEY MAP 419H

Additional ID(s): 1010118

Address: 103 E WAHL ST,
CROSBY, TX , 77532

Local Unit: REGION 12 - HOUSTON

Activity Type(s): TIER II-OS - This activity counts as the comprehensive evaluation investigation to determine compliance with the Title 25 Texas Administrative Code (TAC) Chapter 295, Subchapter H rules.

Principal(s):

Role	Name
RESPONDENT	CROSBY MUD

Contact(s):

Role	Title	Name	Phone
PARTICIPATED IN	OPERATIONS MANAGER	MR CHRIS WALLACE	Work (281) 328-4242 Cell (281) 900-7190
PARTICIPATED IN	ASSISTANT MANAGER	MIKE STOCKTON	Work (281) 328-4242
REGULATED ENTITY MAIL CONTACT	PRESIDENT	MR ROBERT FIVECOAT	Work (281) 328-4242
REGULATED ENTITY CONTACT	OPERATIONS MANAGER	MR CHRIS WALLACE	Cell (281) 900-7190 Work (281) 328-4242
NOTIFIED	ASSISTANT MANAGER	MIKE STOCKTON	Work (281) 328-4242

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Other Staff Member(s):

Role	Name
QA Reviewer	THUY CHAU
Supervisor	CHRISTINA BERNAL
Supervisor	NICHOLE NUNES
Investigator	KATHLEEN CAMPBELL

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
TIER II COMMUNITY RIGHT-TO-KNOW INVESTIGATION	Tier II

Investigation Comments:

INTRODUCTION

On April 11, 2019, Investigator Destiny Geppert, Texas Commission on Environmental Quality (TCEQ) Region 12 Environmental Investigator, conducted an announced On-site Tier II Reporting Investigation at Crosby Municipal Utility District (MUD), PWS ID No. 1010118. The investigation was conducted to determine compliance with the applicable Tier II program reporting requirements. Investigator Geppert contacted Mr. Mike Stockton, Assistant Manager of Crosby MUD, on April 5, 2019 to schedule the investigation.

BACKGROUND

House Bill (HB) 942 was passed during the 84th Texas Legislature, Regular Session, and signed into law by the Governor. The bill requires the transfer of the duties authorized by Health and Safety Codes 505, 506, and 507 (Community Right-to-Know Acts or Tier II Program) from the Department of State Health Services (DSHS) to the Texas Commission on Environmental Quality (TCEQ), effective September 1, 2015.

GENERAL FACILITY AND PROCESS INFORMATION

Crosby MUD is a community PWS. The water system maintains one water plant which supplies water to one pressure plane. This system serves a total of 1485 connections, with an estimated population of 4449. The regulated entity has been issued a certificate of necessity and convenience, 10861.

Plant No. 1 is located at 5318 6th Street and raw water travels down the San Jacinto River Authority Canal. From the canal it is transferred to a one-acre forebay by two 1000 gallons per minute (gpm) service pumps located at the raw water pump station. After the forebay is the transfer pump station where two 1000 gpm service pumps, pump water to the clarifier.

Prior to entering the clarifier, the water is treated with a cationic polymer and the anionic polymer. The clarifier has 32' diameter and a side wall depth of 30'. After the clarifier the water is treated with chlorine gas and liquid ammonium sulfate (LAS) for disinfection and is sent to two dual media filters. The filters have a 15.5' diameter and a side wall depth of 30'. After the filters the system has an option to boost the water the chlorine gas and LAS if needed. In addition, the water is treated with caustic and polyphosphate between the filters and the clearwell. The filtered water is then sent to the 9,000-gallon clearwell. After the clear well are two transfer pumps that send the water to three ground storage tanks.

At each ground storage tank there is optional chlorine gas and LAS injection points for additional disinfection if needed. The system has two 300,000-gallon ground storage tanks and one 427,000-gallon tank. There are two pressure tanks at 10,000 gallons each. After the ground storage tanks there are six service pumps: four at 500 gpm each and two at 1000 gpm each that send water to the distribution. The plant also contains two submersible wells, Source ID No. G1010811F and No. G1010811G, which produces 60 gpm and 700 gpm respectively. The plant is equipped with three diesel generators. The first generator at 80 kilowatt (kW) runs the raw pump station and the transfer pump station. The second generator at 250 kW runs the second transfer pumps. The final generator at 250 kW runs the high service pumps and the office.

SUMMARY OF ON-SITE INVESTIGATION

On April 11, 2018, Investigators Geppert and Kathleen Campbell, TCEQ Region 12, arrived at the facility at approximately 9:00 AM. The investigators then met with Mr. Stockton and Mr. Chris Wallace, Operations Manager, with Crosby MUD. The investigation began with an entrance interview, in which Investigator Geppert

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informed the facility representatives of the purpose and format of the investigation.

On April 26, 2019, an electronic copy of the facility's calendar year 2018 Tier II report was provided by Bernardine Zimmerman of the Tier II Program at the TCEQ. The report was submitted to the TCEQ on April 26, 2019. According to the report, the facility uses the chemicals found on the attached list (Attachment 1).

ADDITIONAL INFORMATION

This Tier II Reporting investigation was part of an on-site Modified Compliance Public Water System Investigation (Typecode MODCCI). For more information, see Investigation # 1556151.

CONCLUSION

During the investigation no violations were alleged. Therefore, no further action is required by Crosby MUD as a result of this investigation.

No Violations Associated to this Investigation

Signed


Environmental Investigator

Date

5/14/19

Signed



Supervisor

Date

05-14-2019

Attachments: (in order of final report submittal)

___ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type) : GC

___ Investigation Report

___ Sample Analysis Results

___ Manifests

___ Notice of Registration

___ Maps, Plans, Sketches

___ Photographs

___ Correspondence from the facility

☒ Other (specify) :

Tier II Report

Jon Niemann, *Chairman*
Emily Lindley, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 15, 2019

Mr. Robert Fivecoat
President
Crosby Municipal Utility District
Post Office Box 249
Crosby, Texas 77532-0249

Re: Tier II Investigation at:
Crosby MUD, 5318 6th Street, Crosby, Harris County, Texas
Regulated Entity No.: 101439628 TCEQ ID No.: 1010118 Investigation No.: 1556768


Dear Mr. Fivecoat:

On April 11, 2019, Ms. Destiny Geppert and Ms. Kathleen Campbell 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. Destiny Geppert in the Houston Region Office at (713) 767-3729.

Sincerely,

A handwritten signature in cursive script that reads "Nichole Batista Nunes".

 Nichole Batista Nunes
Team Leader
Public Water Supply
Houston Region Office

NBN/DG/sh

cc: Harris County Public Health and Environmental Services
101 South Richey Street, Suite G
Pasadena, Texas 77506-1023

Attachment 1

Facility Name: CROSBY SURFACE WATER TREATMENT PLANT

FACILITY IDENTIFICATION:

CROSBY SURFACE WATER TREATMENT PLANT

Dept:

Physical Address: 5318 6TH ST, CROSBY, TX 77532

Mailing Address: PO BOX 249, CROSBY, TX 77532-0249

Geographic Location:

County: HARRIS

Latitude: 29.908324

Longitude: -95.056599

Fire Department: Crosby Volunteer Fire Department

LEPC:

☐ All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:

Dun & Bradstreet: N/A

NAICS: 221310 (Water Supply and Irrigation Systems)

Is the facility manned? ☒ Manned ☐ Unmanned

Maximum No. of Occupants: 6

REGULATORY INFORMATION:

Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)?

☐ Yes ☒ No

Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)?

☐ Yes ☒ No

CONTACT INFORMATION:

CHRIS WALLACE

Organization: CROSBY MUNICIPAL UTILITY DISTRICT

Title: OPERATIONS MANAGER

Contact Type(s): FAC. EMERGENCY COORDINATOR, BILLING CONTACT, EMERGENCY CONTACT, TIER II
INFORMATION CONTACT, OWNER / OPERATOR, PARENT COMPANY

Address: PO BOX 249, CROSBY, TX, 77532

Phones: 24-HOUR: 281-900-7190 WORK PHONE: 281-328-4242

Email: [REDACTED]

CHEMICAL DESCRIPTIONS:

CHEMICAL NAME: CHLORINE GAS

CAS #: 7782-50-5 EHS: YES

☐ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Physical Hazard Not Otherwise Classified
☐ Combustible dust
☐ Explosive
☒ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☒ Corrosive to metal
☒ Flammable
☐ In contact with water emits flammable gas
☒ Oxidizer
☐ Pyrophoric
☒ Self-reactive

HEALTH HAZARDS:

☐ Health Hazard Not Otherwise Classified

Facility Name: CROSBY SURFACE WATER TREATMENT PLANT

☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☒ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity (single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 02 (100 - 499 pounds)
Avg Daily Amt code: 02 (100 - 499 pounds)
Avg Max Amt quantity in largest container: 150 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Cylinder
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Attached to North East side of Building
Amount: 1800 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CALCIUM HYPOCHLORITE

CAS #: 7778-54-3 EHS: NO

☐ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Physical Hazard Not Otherwise Classified
☐ Combustible dust
☐ Explosive
☐ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☒ Corrosive to metal
☒ Flammable
☐ In contact with water emits flammable gas
☒ Oxidizer
☐ Pyrophoric
☒ Self-reactive

HEALTH HAZARDS:

☐ Health Hazard Not Otherwise Classified
☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity (single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 02 (100 - 499 pounds)
Avg Daily Amt code: 02 (100 - 499 pounds)
Avg Max Amt quantity in largest container: 100 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Plastic or non-metallic drum
Pressure: Ambient pressure Temp: Ambient temperature

Facility Name: CROSBY SURFACE WATER TREATMENT PLANT

Location: On catwalk on the front side of filter #1

Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: SODIUM HYDROXIDE, [LIQUID]

CAS #: 1310-73-2 EHS: NO

☐ Identical to previous year☐ Trade Secret☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas**CHEMICAL COMPONENTS:****PHYSICAL HAZARDS:**

- ☐ Physical Hazard Not Otherwise Classified
- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating

- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☒ Self-reactive

HEALTH HAZARDS:

- ☐ Health Hazard Not Otherwise Classified
- ☒ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☐ Serious eye damage or eye irritation
- ☐ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity (single or

INVENTORY:☐ Below Reporting Thresholds

Max Daily Amt code: 02 (100 - 499 pounds)

Avg Daily Amt code: 01 (00 - 99 pounds)

Avg Max Amt quantity in largest container: 300 pounds

No. days on-site: 365

STORAGE LOCATIONS☐ Confidential

Container Type: Above ground tank

Pressure: Ambient pressure Temp: Ambient temperature

Location: Chemical room attached to the pump room

Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

FACILITY STATE FIELDS:

Texas requests the following:

☐ Initial ☐ Updated ☒ Annual

TXT2 Number: 66608

TCEQ Regulated Entity Number (RN): RN110753969

TCEQ Customer Number (CN): CN600651970

During this reporting year, was this facility sold to another company, or did it close operations or discontinue storing reportable quantities of hazardous substances? NO

Effective Date:

Facility Name: CROSBY SURFACE WATER TREATMENT PLANT

STATE / LOCAL FEES: \$50

- ☐ I have attached a site plan
- ☐ I have attached a list of site coordinate abbreviations
- ☐ I have attached a description of dikes and other safeguard measures

ATTACHMENTS

N/A

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 4 and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

CHRIS WALLACE, OPERATIONS MANAGER

04/16/2019

Name and official title of owner/operator

OR owner/operator's authorized representative

Signature

Date Signed

Facility Name: CROSBY MUNICIPAL UTILITY DISTRICT

FACILITY IDENTIFICATION:

CROSBY MUNICIPAL UTILITY DISTRICT

Dept:

Physical Address: 5703 AVENUE E, CROSBY, TX 77532-8897

Mailing Address: PO BOX 249, CROSBY, TX 77532-0249

Geographic Location: Dead end of AVENUE E, 77532

County: HARRIS

Latitude: 29.907108

Longitude: -95.073034

Fire Department: Crosby Volunteer Fire Department

LEPC:

☐ All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:

Dun & Bradstreet: N/A

NAICS: 221320 (Sewage Treatment Facilities)

Is the facility manned? ☒ Manned ☐ Unmanned

Maximum No. of Occupants: 6

REGULATORY INFORMATION:

Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)?

☐ Yes ☒ No

Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)?

☐ Yes ☒ No

CONTACT INFORMATION:

CHRIS WALLACE

Organization: CROSBY MUNICIPAL UTILITY DISTRICT

Title: OPERATIONS MANAGER

Contact Type(s): EMERGENCY CONTACT, BILLING CONTACT, OWNER / OPERATOR, TIER II INFORMATION CONTACT, FAC. EMERGENCY COORDINATOR, PARENT COMPANY

Address: PO BOX 249, CROSBY, TX, 77532

Phones: 24-HOUR: 281-900-7190 WORK PHONE: 281-328-4242

Email: [REDACTED]

CHEMICAL DESCRIPTIONS:

CHEMICAL NAME: CHLORINE

CAS #: 7782-50-5 EHS: YES

☐ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Physical Hazard Not Otherwise Classified
☐ Combustible dust
☐ Explosive
☒ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☒ Corrosive to metal
☒ Flammable
☐ In contact with water emits flammable gas
☒ Oxidizer
☐ Pyrophoric
☒ Self-reactive

HEALTH HAZARDS:

☐ Health Hazard Not Otherwise Classified

Facility Name: CROSBY MUNICIPAL UTILITY DISTRICT

☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☒ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity (single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 02 (100 - 499 pounds)
Avg Daily Amt code: 02 (100 - 499 pounds)
Avg Max Amt quantity in largest container: 150 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Cylinder
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: WEST OF OFFICE FRONT DOOR UNDER AWNING
Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CALCIUM HYPOCHLORITE
CAS #: 7778-54-3 EHS: NO

☐ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Physical Hazard Not Otherwise Classified
☐ Combustible dust
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☒ Self-reactive

HEALTH HAZARDS:

☐ Health Hazard Not Otherwise Classified
☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☐ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity (single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 02 (100 - 499 pounds)
Avg Daily Amt code: 02 (100 - 499 pounds)
Avg Max Amt quantity in largest container: 100 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Glass bottles or drums
Pressure: Ambient pressure Temp: Ambient temperature

Facility Name: CROSBY MUNICIPAL UTILITY DISTRICT

Location: EAST SIDE OF PLANT BY WASHDOWN BAY
Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Texas

FACILITY STATE FIELDS:

Texas requests the following:

☐ Initial ☐ Updated ☒ Annual

TX2 Number: 66608

TCEQ Regulated Entity Number (RN): RN102080462

TCEQ Customer Number (CN): CN600651970

During this reporting year, was this facility sold to another company, or did it close operations or discontinue storing reportable quantities of hazardous substances? NO

Effective Date:

STATE / LOCAL FEES: \$50

- ☐ I have attached a site plan
☐ I have attached a list of site coordinate abbreviations
☐ I have attached a description of dikes and other safeguard measures

ATTACHMENTS

N/A

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 3 and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

CHRIS WALLACE, OPERATIONS MANAGER

Name and official title of owner/operator
OR owner/operator's authorized representative

Signature

04/16/2019

Date Signed

Destiny Geppert

From: Bernardine Zimmerman
Sent: Friday, April 26, 2019 1:23 PM
To: Destiny Geppert
Subject: RE: Crosby MUD, PWS#1010118
Attachments: Tier-II-Paper-Report-for-2019-04-26-1556302357617.pdf

Hi Destiny,

Crosby MUD has submitted a 2018 annual report for RN102080462, 5703 Avenue E, Crosby, TX and a separate 2018 annual report for RN110753969, 5318 6th St., Crosby, TX 77532. I have attached .pdfs for both RNs. Please let me know if you have any questions or concerns.

Thank you,

Bernardine Zimmerman
TCEQ | CID | Tier II Program
512-239-5065
800-452-2791 ext. 2395065

Bernardine.zimmerman@tceq.texas.gov

Website: www.TexasTier2.org

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey.

From: Destiny Geppert
Sent: Thursday, April 25, 2019 7:41 AM
To: Bernardine Zimmerman <Bernardine.Zimmerman@tceq.texas.gov>
Subject: Crosby MUD, PWS#1010118

Good morning Ms. Zimmerman,

I am a PWS investigator in Region 12, and I recently conducted a investigation at Crosby MUD on April 11th. I was asked to conduct a TIER II investigation alongside my compliance investigation. Mr. Wallace, Operations Manager, at Crosby MUD mentioned that he was working with you on submitting 2018's TIER II to you. Is that correct? Have they been able to submit 2018's yet?

Destiny Geppert
Texas Commission on Environmental Quality
Environmental Investigator
5425 Polk Street, Suite H
Houston, Texas 77023
Direct: 713-767-3729
Office: 713-767-3650

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