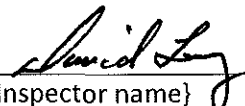
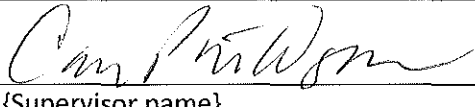


**Region 6 Compliance Assurance and Enforcement Division
INSPECTION REPORT**

Inspection Date(s):	06/22/2017		
Media:	Water		
Regulatory Program(s)	CWA 308[A][B]		
Company Name:	City of DeSoto		
Facility Name:	City of DeSoto		
Facility Physical Location:	211 East Pleasant Run Road		
(city, state, zip code)	DeSoto, Texas 75115		
Mailing address:	620 North Westmoreland Road		
(city, state, zip code)	DeSoto, Texas 75115		
County/Parish:	Dallas		
Facility Contact:	Isom Cameron	Director of Public Utilities	
	icameron@desototexas.gov		
FRS Number:	110010934506		
Identification/Permit Number:	TXU00157		
Media Number:	NA		
NAICS:	221320		
SIC:	4952		
Personnel participating in inspection:			
David Long	USEPA/6EN-WM	Environmental Scientist	214.665.7323
Rachel Matthews	USEPA/6EN-WM	Environmental Scientist	214.665.8589
Crystal Owens	City of DeSoto	City Engineer	972.230.9672
Alan McDonald	City of DeSoto	Manager of Utilities	972.230.5725
EPA Lead Inspector Signature/Date	 {Inspector name}		12/13/2017 Date
Supervisor Signature/Date	 {Supervisor name}		12/13/17 Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

A U.S. Environmental Protection Agency (USEPA) program review inspection was conducted in the City of DeSoto offices located at 211 East Pleasant Run Road, DeSoto, Texas 75115. The inspection was conducted under the guidelines established by the USEPA under the National Pollutant Discharge Elimination System (NPDES) for wastewater collection systems. The purpose of this inspection was to inspect and review the City of DeSoto's current Sanitary Sewer Overflow (SSO) response protocols and their application of a Capacity, Management, Operations and Maintenance (CMOM) program and how the program is used to insure proper operation and maintenance of their collection system. An entry briefing was conducted by EPA-Region 6 inspectors David Long and Rachel Matthews at 9:00 a.m. on June 22, 2017 at the City of DeSoto offices. The inspectors met with Isom Cameron, Director of Public Utilities, Allan McDonald, Manager of Utilities, and Crystal Owens, City Engineer. During the entry briefing, the EPA inspectors provided credentials and explained the purpose of the inspection, as well as set the timeline for the day and verified the availability of documents that had been requested the week before. Notification of the inspection had been provided to Lead Inspector Greg Diehl with the Texas Commission on Environmental Quality, but was not present for any part of the inspection.

At the conclusion of the inspection, an exit briefing was conducted that explained the suggestions and areas of concerns noted during the inspection that are detailed in this report. This report is based on information supplied by the City representatives, observations made by the U.S. EPA inspectors, records and reports maintained by the City, the State of Texas and the USEPA.

FACILITY DESCRIPTION

The City of DeSoto is approximately 21.6 square miles in size and includes a population of approximately 52,000 residents which are provided wastewater services through approximately 220 miles of sewer lines which includes no lift stations. Approximately 49 percent of the collection system is composed of PVC pipe. Fifty percent of the collection system is composed of vitrified clay and the remaining percentage is composed of ductile iron. The City of DeSoto does have a Supervisor Control and Data Acquisition (SCADA) system, but it only monitors the City's drinking water distribution system.

The City of DeSoto collection system has reported only two SSOs in the past three years to the TCEQ, however, while the City of DeSoto does maintain records of all SSOs originating from either private lateral or city owned lines, they do not report any of those overflows to the TCEQ unless the overflow reaches the Water of the U.S. or Waters of the State. Mr. McDonald indicated that the City of DeSoto responds to over 500 private lateral SSO complaints each year. Problem areas of the collection system, where SSOs occur more frequently, are placed on either a weekly or monthly preventative maintenance schedule and cleaned to reduce overflows. The consulting company, Grantham and Associates, performs the city's ongoing collection system basin studies which include basin capacity, I&I, smoke testing, flow monitoring, line and manhole repairs and CCTV to evaluate line condition. The study is

currently though 60% of the system and will be restarted when the current study is complete. The City of DeSoto utilizes a seven to 10 year cleaning plan and annually cleans approximately 1.2 million linear feet of sewer line within their collection system. Finally, the City of DeSoto's budget provides approximately \$3 million per year for their Capital Improvement Plan (CIP)/sewer replacement program plus an additional \$50,000 per year for emergency repairs.

The City of DeSoto has elected to join the TCEQ Sanitary Sewer Overflow Initiative and has developed various written protocols to meet the program's needs. These protocols include their CMOM, FOG (Fats, Oil, Grease) Ordinance to address grease waste from restaurants and private properties, collection system maintenance and inspection, and a Sewer Overflow Response Plan (SORP) which includes soil cleanup and/or disinfection.

During regular business hours, SSO complaints are forwarded to the Utilities Department from various sources including direct calls and forwarded calls from the city operator. After normal business hours, the City of DeSoto utilizes a private answering service who can notify operators of overflows that might require immediate response. However, the City of DeSoto has not developed a formal written protocol to address their complaint response procedure.

Section II - OBSERVATIONS

Due to the City of DeSoto's lack of lift stations and/or the lack of collection system issues at the time of the inspection, no field observations were made during this inspection.

Section III – AREAS OF CONCERN

At the conclusion of the inspection, the EPA inspectors met with the representatives from the City of DeSoto for an exit interview at 11:30 a.m. on June 22, 2017. At that time, the inspectors provided details and feedback to the City representatives regarding any questions they may have noted during the inspection. The following issues were noted during the exit briefing:

1. The City of DeSoto has not developed a formal written protocol to address their complaint response procedure and entering data into their "Go Request" from the different city offices.
2. While overflows from private laterals do not need to be reported to the TCEQ, overflows from city owned lines, regardless of reaching Waters of the State or U.S., must be reported to the TCEQ within 24 hours of their occurrence.

The inspectors exited the site at 12:30 p.m.

Section IV – FOLLOW UP

None required. A copy of the inspection report will be sent to the City of DeSoto contact, Isom Cameron, DeSoto Public Utilities Director.

Section V – LIST OF APPENDICES

Appendix 1 – City of DeSoto SSO Inspection Checklist

Appendix 2 - Meeting/Inspection Attendee List

Appendix 3 – City of DeSoto SSO Report Example

Appendix 1 – City of DeSoto SSO Inspection Checklist

EPA SSO Inspection Checklist

Performance Indicators

1. Summarize the Capacity, Management, Operations, and Maintenance (CMOM) components utilized by the facility and satellite systems, if applicable.: Basin studies include I+I study,
Capacity Study within that Basin, smoke testing flow monitoring, spot
repairs and manhole repairs, capacity monitoring during wet weather versus
dry weather flows, CCTV to evaluate line conditions.
2. Does the utility participate in the TCEQ Sanitary Sewer Overflow Initiative (SSOi)? Yes
 - If yes, please provide the latest SSOi Annual Report.
 - If no, why not? _____
3. What Standard Operational Procedures (SOP) are developed and used?

• <u>SCADA?</u> • ☒ Routine Inspections/Maintenance? • <u>Root Control?</u> • <u>Lift/Pump Stations?</u>	• <u>Valve maintenance?</u> • ☒ Fleet Management? • ☒ Clean-up? • ☒ Other? <u>Disinfection - soil removal</u> <u>and replacement</u>
---	---
4. Has an infiltration & inflow (I/I) analyses or sanitary system evaluation survey been performed? Yes
 - If yes, describe (and provide a copy of any associated reports) Grantham & Associates currently
does the Basin evaluations for the City of Desoto
 - ☒ Smoke Testing? _____
 - Dye Testing? _____
 - ☒ CCTV? _____
 - ☒ Peaking Factors? _____
 - If not, why not? _____
5. Describe the sewer cleaning and inspection goals. We clean certain areas of the system
that routinely give us trouble. Primarily these are areas that may have
grease issues. We also use deodorant and enzyme blocks.
 - ☒ Hot Spots? Yes - Monthly Maintenance List
 - ☒ Annual Goals? 1,200,000 feet cleaned annually is the desired goal
6. Describe any training for receiving, documenting, and responding to sewer calls.
 - Discharge Estimates? _____
 - Safety/Confined Space? Yes - Emergency confined space entrance (Tripod, safety harness,
atmosphere testing, fresh
 - Lockout/Tagout? _____
 - Reporting? Yes - Sewer Stoppage Reports for every call (air blower.)
 - Treatment/Clean-up? Yes - Clean up solids, disinfection by chemical.
 - Other? _____

EPA
SSO Inspection Checklist

7. Describe any Asset Management process in place for the collection system. Go Request is our work order system. This system is used for sewer stoppages and repairs to the collection system. Tracking these work orders helps us to identify trouble areas
8. Describe the funding status. We have funds budgeted for everything below
- Emergency Repairs: \$50,000 budgeted Annually
 - Operation & Maintenance: \$14 million Budgeted Annually for Water + Wastewater O&M
 - Rehabilitation: \$2.5-3.0 Million Annually to the CIP
\$2.5 Million Budgeted Annually in the CIP (Capital Improvement Program)
 - Rates: Reviewed Annually, Council approved rate increases as needed.
 - Other? Current sewer rates: Base Rate \$8.71, Volume - \$8.65 per 1000 gallons
9. Describe any formal approach to target areas for Capital Improvement Projects. Public Utilities meets with Development Services several times a year to discuss and update the CIP. Areas of concern are prioritized ahead of other areas.
10. Please provide any other relevant information.
- _____
- _____
- _____

CERTIFICATION

I certify under penalty of law that I have examined and am familiar with the information provided and in any enclosed documents, including all attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are, to the best of my knowledge and belief, true, accurate, and complete.

9/9/16
Date

Allen McDonald
Signature
Allen McDonald, Mgr. of Utility Services
Print name and Title

EPA
SSO Inspection Checklist

Lift/Pump Stations

1. How many lift stations are in the system? None
 - How many have backup power sources? _____
 - Describe: _____
2. Describe how pump/lift stations are inspected and monitored? _____
3. Is a SCADA system used? Yes If so, what parameters are monitored? Water Distribution Only
4. What provisions have been made for emergencies? N/A
 - Emergency Power? _____
 - Critical Processes? _____
 - SCADA? _____
 - Other? _____
5. Describe any automated emergency notification/response process. N/A

Satellite Systems

1. Does the collection system receive flow from satellite systems? No
If yes, continue with questions 2-4
2. Is flow from satellite systems monitored? N/A
If yes, how? _____
3. Describe any known problems with the satellite collection system (hydraulic flow, wastewater concentration, ordinances, etc.)? N/A
4. Who is responsible for satellite systems, enforcement, and response? N/A
 - Enforcement? _____
 - Response? _____

EPA
SSO Inspection Checklist

Name of Municipality City of DeSoto

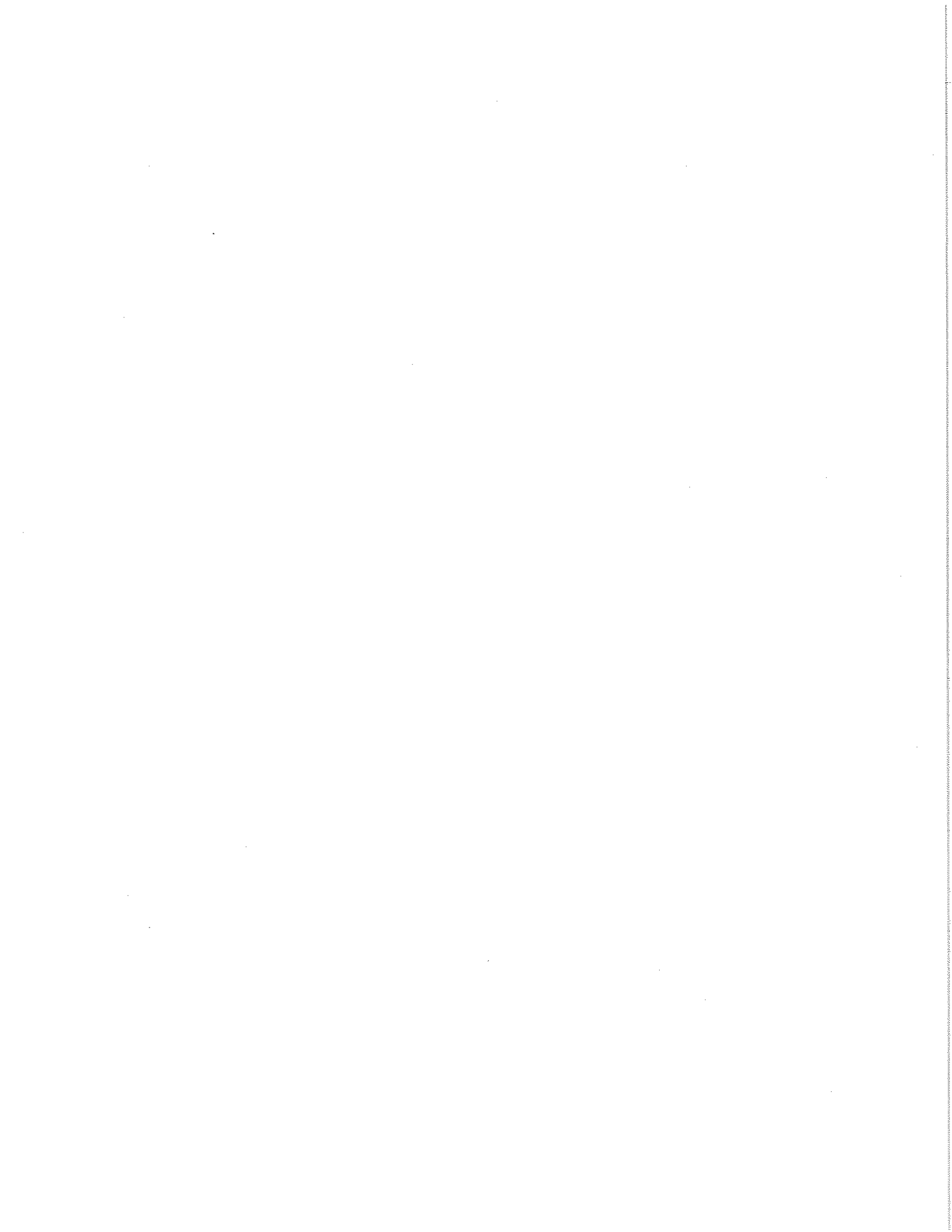
Collection System Description

1. Describe the collection system. An underground piping system that transports sanitary sewer from homes and businesses in DeSoto to a larger piping system that belongs to TRA.
2. What is the population of the service area:
 - Number of residents Approximately 52,000
 - Commercial connections 647
 - Any septic systems? Yes If yes, how many? Do not know that answer. Not many though.
3. How many miles of sanitary sewer mains are in the collection system? Approx. 220 Miles
4. What is the age of collection system? On average (20 yrs. old)
 - %VC $\approx$ 50%
 - %DI $\approx$ 1%
 - %PVC $\approx$ 49%
 - %Other $\approx$ 0%
5. Does the collection system experience problems during dry weather? No
Describe or provide documentation: _____

6. Does the collection system experience problems during wet weather?
Describe or provide documentation: Yes. If we experience a significant amount of rainfall then we do notice that our collection system will start to back up. Particularly when TRA system is full.
7. What is your sanitary sewer overflow (SSO) notification procedure? Contact our local TCEQ Region 4 office by phone immediately within 24 hours and also start completing the "Water Quality Noncompliance Notification Form" immediately in order to email or Fax it to them. Contact phone (817) 588-5800

What is reported? Size, location of the SSO and any other important information necessary or pertinent. Plan of action to prevent the SSO from happening again.
8. Are all SSOs reported, regardless of size? Yes. If no, why not? _____

Appendix 2 - Meeting/Inspection Attendee List



Opening Meeting

City of Desoto Collection
Name of Facility System

City of Desoto
Location

Commenced meeting _____ Date: 6-22-17 Time: 9:00 am
Conclude meeting _____ Time: _____

Name	Title	Representing	Telephone No.	Email
Rachel Matthews	Life Scientist	EPA	214-665- 888 8589	Matthews.Rachel@epa.gov
Crystal Owens	City Engineer	City of Desoto	972 230-9672	cowens@desototexas.gov
Allan McDonald	Mgr. of Utilities	City of Desoto	972 230-5725	amcdonald@desototexas.gov
Isom Cameron	Director of Public Utilities	City of Desoto	972-230 9640	icameron@desototexas.gov
David Long				

Initials / Date: _____ / _____

Appendix 3 – City of DeSoto SSO Report Example

Water Quality Noncompliance Notification

See back of Form for Guidance for Completion

☒ Unauthorized Discharge

☐ Reportable Effluent Violation

☐ Other

General Information

Entity Name: City of DeSoto

Telephone No (#####): (972) 230-5725

☐ Permittee

TCEQ Region: R4 - DFW

County: Dallas

*Permit Number: WQ0010984

☐ Subscriber

Noncompliance Summary

Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

There was blockage in the 10" sanitary sewer line located in a wooded area between Bolton Boone Drive and Scotland Drive. The cause of the blockage was grease in the line. The overflow ran into the drainage ditch that runs behind the Mt. Vernon Apartments at 1020 Scotland Drive. The overflow continued south and settled in a stock pond near the property located at 2315 Bolton Boone Drive. We estimate the discharge volume at 20,000 gallons.

Duration:

Start Date: 8/27/15

End Date: 8/27/15

Or

Date Expected to be Corrected:

Time: 12:00pm

Time: 5:30pm

Potential Danger to Human Health and Safety or the Environment:

There was potential danger to the fish in the stock pond and to the horses on the property that use the pond as a water source. There was absolutely NO fish kill in the stock pond. The drainage ditch contained some dead fish of about 2-3 inches in size. However, we believe that the fish in the drainage ditch were already dead, because the ditch was dry prior to the overflow.

Actions Taken

Monitoring Data: Data should be attached or submitted to TCEQ when available.

Field Measurements

Laboratory Samples

Fish Kill (If yes, estimated number killed):

☐ Yes ☒ No

☐ Yes ☒ No

☒ Yes ☐ No

250

Actions Taken to Mitigate Adverse Effects:

We flowed fresh water from a nearby fire hydrant into the drainage ditch and allowed it to fill the stock pond. We did some clean up along the sides of the drainage ditch and around the perimeter of the stock pond by removing debris and soil and applying granular chlorine for disinfection and odor control. Continued on attached sheet.

Actions Taken to Correct the Problem and Prevent Recurrence:

We immediately cleaned the line and removed the grease blockage. We also inserted enzyme blocks inside manhole closest to the apartment complex to help minimize the accumulation of grease in the line. Finally, we added this segment of line to our maintenance list for monthly cleaning. Continued on attached sheet.

Verification Information

Information Reported By (Name/Title): Allan McDonald/Superintendent

Date Reported: Aug 28, 2015

Signature:

Allan McDonald

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

* If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.

Actions Taken to Mitigate Adverse Effects:

We flowed fresh water from a nearby fire hydrant into the drainage ditch and allowed it to fill the stock pond. We did some clean up along the sides of the drainage ditch and around the perimeter of the stock pond by removing debris and soil and applying granular chlorine for disinfection and odor control. We collected water samples from the stock pond and had them analyzed by the Trinity River Authority laboratory for Dissolved Oxygen, E-Coli and Ammonia. We also contacted the owner of the horses and asked them to relocate the horses until the sampling and lab analysis were complete. We provided fresh drinking water for the horses via watering trough for several days, until the owner could relocate the horses. The sampling results indicated that all samples taken were within the correct parameters and the horses would not be adversely affected. We provided the preliminary results and final Analytical Report to Eric Agnew with TCEQ.

Actions Taken to Correct the Problem and Prevent Recurrence:

We immediately cleaned the line and removed the grease blockage. We also inserted enzyme blocks inside manhole closest to the apartment complex to help minimize the accumulation of grease in the line. We added this segment of line to our maintenance list for monthly cleaning. Finally, we have moved this particular basin ahead of other basins in our Basin Study Program.



Trinity River Authority of Texas CRWS Laboratory

6500 W. Singleton Blvd, Dallas TX 75212
Telephone: 972-975-4300 Fax: 972-975-4414

Analytical Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: Douglas Box

Laboratory ID: 2015-013131

Date Report Printed: 09/16/2015

Client Sample ID: Stock Pond South
Sample Collection Site: 2315 Belton Boone Rd.
Sample Matrix: Non-Potable Water

Date Sample Collected: 9/3/15 13:28

Date Sample Received: 9/3/15 14:41

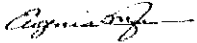
Inorganic Parameters

Sample #	1108120	Worklist: NH3-CRP-09/09/15-00208			Analyst: SLD		
	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Accredited</u>	<u>Flag</u>
Ammonia	0.07	mg/l	0.02	SM 4500-NH3 H	9/9/2015 10:52:00	Y	

Microbiological Parameters

Sample #	1108123	Worklist: E-COLI-TOT-COLI-09/11/15-01697				Analyst: LXJ		
	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Accredited</u>	<u>Flag</u>	
E. Coli	51	MPN/100ml	1	SM 9223 B	9/3/2015 16:01:00	Y		

* See Quality Control flag Q13.

Laboratory Official: 

Eugenia Jones, Laboratory Supervisor



Quality Control Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: **Douglas Box**

Laboratory ID: **2015-013131**

Date Report Printed: **09/16/2015**

Client Sample ID: **Stock Pond South**
Sample Collection Site: **2315 Belton Boone Rd.**
Sample Matrix: **Non-Potable Water**

Date Sample Collected: **9/3/15 13:28**
Date Sample Received: **9/3/15 14:41**

Worklist E-COLI-TOT-COLI-09/11/15-01697

Analyst: LXJ

Date Analyzed: 9/3/2015 16:01:00

Sample Duplicate (DUP OF 2015-013131)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
E. Coli	10	1	MPN/100ml		51					Q13

Worklist NH3-CRP-09/09/15-00208

Analyst: SLD

Date Analyzed: 9/9/2015 10:52:00

Initial Calibration Verification (QC-1109836-ICV)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.82	0.02	mg/l	0.822		100.2	90-110			

AWRL Standard (QC-1109837-AWRL)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.019		mg/l	0.02		96.0	70-130			

Method Blank (QC-1109838-M_BLANK)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	<0.02	0.02	mg/l							

Laboratory Control Sample (QC-1109839-LCS)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.82	0.02	mg/l	0.822		100.3	90-110			

Laboratory Control Sample Duplicate (QC-1109840-LCS)

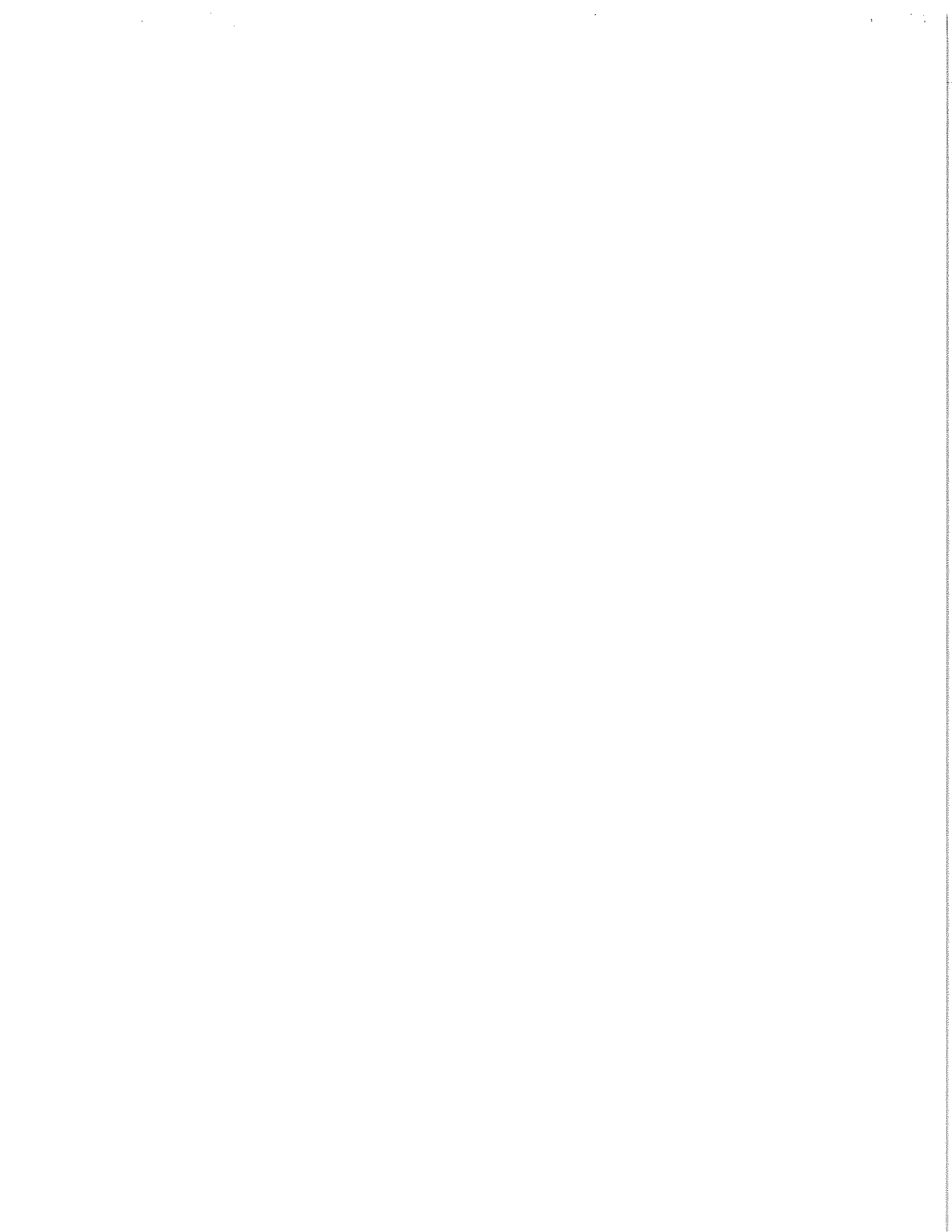
	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.83	0.02	mg/l	0.822		100.9	90-110	1.21	10	

Matrix Spike (MS-2015-013227)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.49	0.02	mg/l	0.5	<0.02	97.6	90-110			

Matrix Spike Duplicate (MS-2015-013227)

	Result	LOQ	Units	Spike Level	Source Result	% REC	%REC Limits	RPD	RPD Limit	Flag
Ammonia	0.49	0.02	mg/l	0.5	<0.02	98.6	90-110	0.00	10	





Analytical Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: Douglas Box

Laboratory ID: 2015-013131

Date Report Printed: 09/16/2015

Client Sample ID: Stock Pond South
Sample Collection Site: 2315 Belton Boone Rd.
Sample Matrix: Non-Potable Water

Date Sample Collected: 9/3/15 13:28

Date Sample Received: 9/3/15 14:41

Laboratory Sample Evaluation Record

Sample arrived on ice?	Yes
Sample temperature (deg. C) :	2.4
Sample containers intact?	Yes
Chain of custody match sample?	Yes
Sample labels legible?	Yes
Received within holdtime?	Yes
Sufficient volume?	Yes
Zero head space?	N/A
Sample dechlorinated?	N/A
Custody seal present?	No
Custody seal intact?	N/A
Submitted outside of business hours?	No

Definitions and Qualifiers

Accredited = Y - NELAP Texas Certificate T104704287 Non-potable water and/or solids.

Accredited = A - NELAP Texas Certificate T104704287 Non-potable water and potable water.

Accredited = B - NELAP Texas Certificate T104704287 Potable water.

Accredited = N - TRA laboratory is not accredited for this test

ug/l = micrograms per liter

mg/l = milligrams per liter

mg/kg = milligrams per kilogram

MPN/100 ml = Most Probable Number per 100 milliliters

MPN/g = Most Probable Number per one gram

col/100 ml = colonies per 100 milliliters

col/g = colonies per one gram

CFU/ml = Colony Forming Units per one milliliter

SU = Standard Units

umhos/cm = micromhos per centimeter

NTU = Nephelometric Turbidity Units

ppm = parts per million

ppb = parts per billion

LOQ = Limit of Quantitation

% REC = Percent Recovery

RPD = Relative Percent Difference

AWRL = Ambient Water Reporting Limits - Clean Rivers Program (CRP)

TNTC = Too Numerous To Count (>200 cfu/100 ml)

Results for solid samples are reported on a dry weight basis for all tests except Organics.

All pH sample results are reported at 25 degrees Celsius.

Matrix Spike results for solid samples are reported on a wet weight basis for Mercury and all other tests except Metals.

The Source Results for Matrix Spikes of solid samples are reported on a dry weight basis.



Trinity River Authority of Texas
CRWS Laboratory

6500 W. Singleton Blvd, Dallas TX 7521
Telephone: 972-262-5186 Fax: 972-331-441

Analytical Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: **Douglas Box**

Laboratory ID: **2015-013131**

Date Report Printed: **09/16/2015**

Client Sample ID: **Stock Pond South**
Sample Collection Site: **2315 Belton Boone Rd.**
Sample Matrix: **Non-Potable Water**

Date Sample Collected: **9/3/15 13:28**
Date Sample Received: **9/3/15 14:41**

If there is no sample Matrix Spike (MS) result reported in the Oil and Grease QC batch it is due to the lack of appropriate sample volumes available for analysis.



Analytical Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: Douglas Box

Laboratory ID: 2015-013131

Date Report Printed: 09/16/2015

Client Sample ID: Stock Pond South
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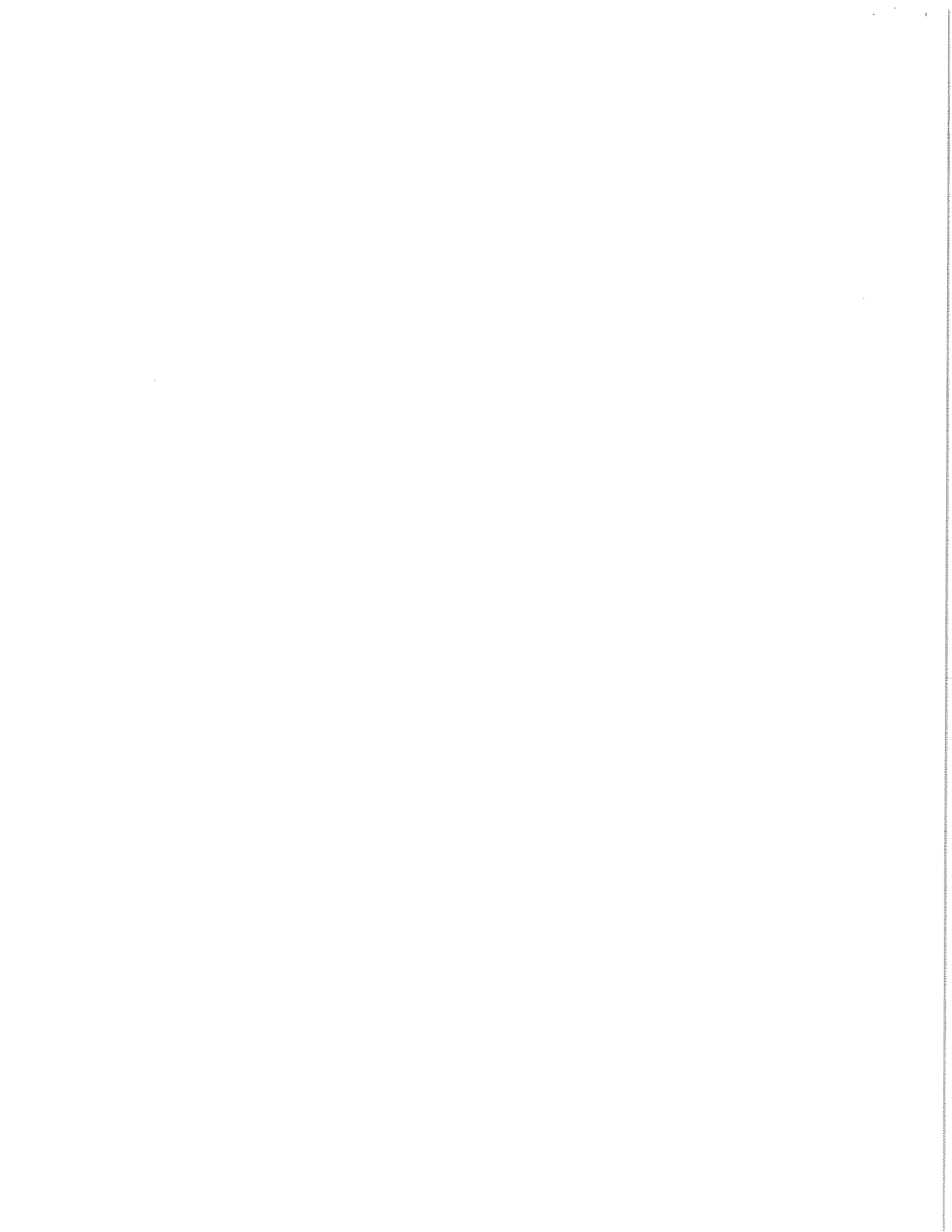
Flags

Quality Control

- Q01 The Sample Matrix Spike recovery was outside of control limits. The result was accepted after review of all quality control data.
- Q02 The Duplicate Relative Percent Difference (RPD) was outside of control limits. The result was accepted after review of all quality control data.
- Q03 The Method Blank indicated a contaminant at less than 10% of concentration found in the sample.
- Q04 The Laboratory Control Sample (LCS) recovery was outside of control limits. The result was accepted after review of all quality control data.
- Q05 The Surrogate Standard recovery was outside of the acceptable range. The result was accepted after review of all quality control data.
- Q06 The Trip Blank indicated sampling or storage contamination.
- Q07 The Percent Recovery and RPD were outside of control limits. The result was accepted after review of all quality control data.
- Q08 The Method Blank was outside of test required level. The result was accepted after review of all quality control data.
- Q09 The Initial Calibration Verification (ICV) recovery was outside of control limits. The result was accepted after review of all quality control data.
- Q10 The Percent Recovery was outside of control limits as defined in the Clean Rivers Program (CRP) QAPP.
- Q11 Due to a high level of the analyte the sample was diluted and the Spike Level was increased by the sample dilution factor.
- Q12 Analyst used 2007-2008 CRP QAPP AWRL Spike Level.
- Q13 The duplicate result was outside of the established Precision Criteria. The result was accepted after a QC review.
- Q14 Due to a high level of the analyte the sample was diluted, the Spike Level was increased by the dilution factor and the %Recovery was outside of control limits.
- Q15 Due to unacceptable QC the reported result is for information only.
- Q16 The Continuing Calibration Verification recovery for this analyte was outside of control limits. This may indicate a high bias to the result.
- Q17 The Continuing Calibration Verification recovery for this analyte was outside of control limits. This may indicate a low bias to the result.
- Q18 Due to matrix interference the sample was diluted and the Spike Level was increased by the sample dilution factor.
- Q19 Due to matrix interference the sample was diluted, the Spike Level was increased by the dilution factor, and the % Recovery was outside of control limits.
- Q20 The method blank result was greater than the method requirement, but less than the laboratory's reporting limit.
- Q21 The theoretical value for the Oil and Grease spike has been adjusted based on the sample volume submitted.
- Q22 The theoretical value for the Oil and Grease spike has been adjusted based on the sample volume submitted and the recovery was outside of control limits.

Sample Results

- R01 The sample was reanalyzed and the result was confirmed.
- R02 Due to laboratory error the sample was analyzed past test required hold time, the result is for information only.
- R03 Due to customer's late request the sample was analyzed past test required hold time, the result is for information only.
- R04 The sample was lost due to sample contamination.
- R05 The sample was lost due to a broken sample container.
- R06 Due to the sample matrix interference the sample was diluted and the detection limit was increased by the dilution factor.
- R07 The analyte concentration was outside of the calibration range, the sample was diluted for this analyte only.
- R08 The detection limit was increased due to the volume of the sample used being less than 1000 ml.
- R09 The detection limit was increased due to the volume of the sample used being less than 100 ml.
- R10 The Oil and Grease (HEM) concentration exceeded the concentration range specified by the test method for the submitted volume of the sample.
- R11 Due to laboratory error the CRP Quality Control requirements were not met.
- R12 The sample was reanalyzed to confirm original value and the reanalysis result is for information only.
- R13 The sample storage temperature rose above 6°C for a short period of time.
- R14 Due to complex sample matrix the sample required dilution. The reported result is below the LOQ corrected by the dilution factor.
- R15 Due to low recovery of an internal standard the sample was diluted and the detection limit was increased by the dilution factor.
- R16 The detection limit was increased due to the volume of the sample used being less than 300 ml.
- R17 The reported detection limit was increased due to the limited sample volume.
- R18 The reported result is an estimated value based on a non-ideal colony count.
- R19 The sample was not filtered in the field.





Analytical Report

City of DeSoto

P.O. BOX 550
DeSoto TX, 75123
Attention: **Douglas Box**

Laboratory ID: **2015-013131**

Date Report Printed: **09/16/2015**

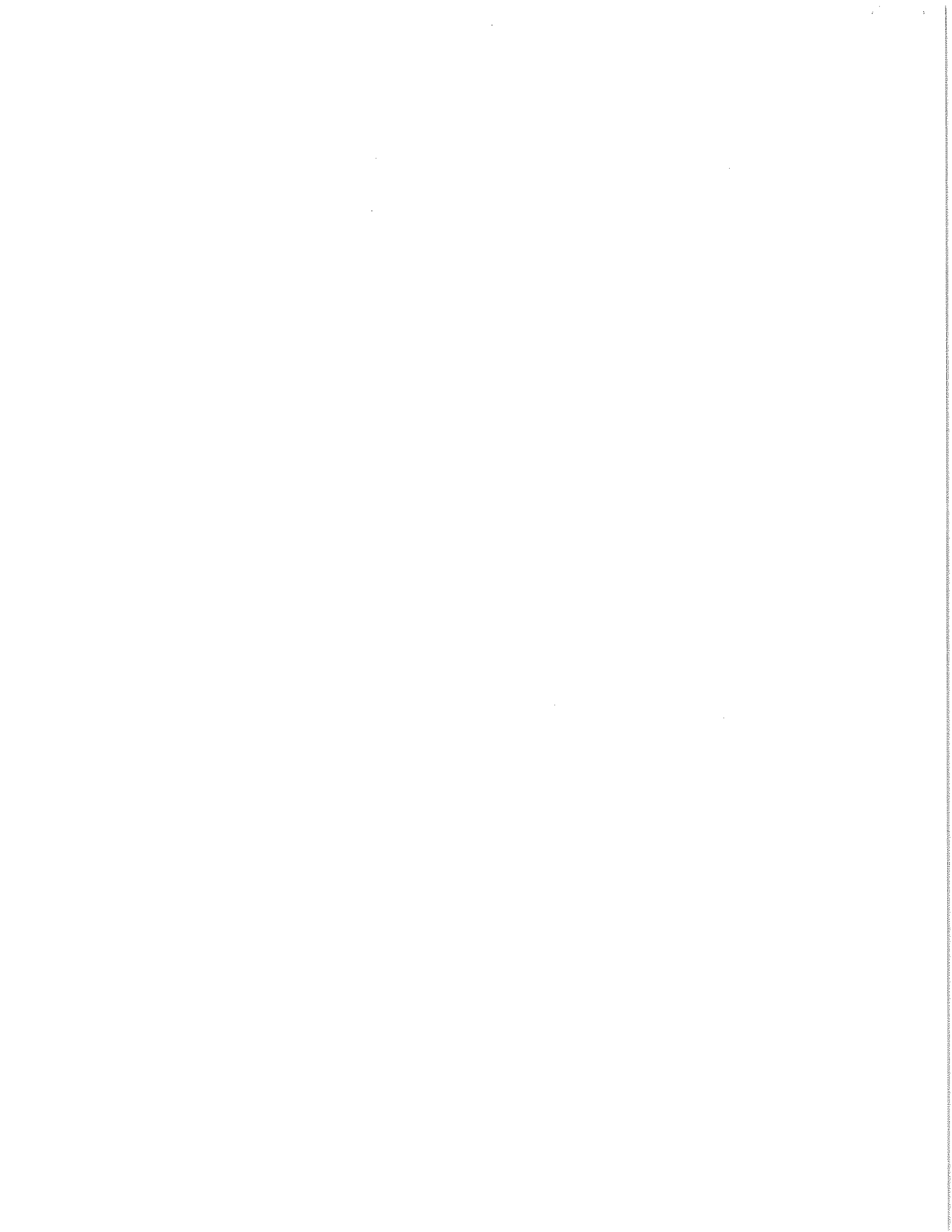
Client Sample ID: **Stock Pond South**
Sample Collection Site: **2315 Belton Boone Rd.**
Sample Matrix: **Non-Potable Water**

Date Sample Collected: **9/3/15 13:28**
Date Sample Received: **9/3/15 14:41**

-
- R20 The detection limit was increased due to the submitted volume of the sample being less than 1000 ml.
R21 The detection limit was increased due to increased detection limit on a blank sample.
R22 The lower level point was excluded from the calibration due to low response therefore the reported detection limit was increased.
R23 The analyte concentration was above calibration range. There was an insufficient sample volume for reanalyses.
R24 The difference between results from primary column and confirmation column is >40%.
R25 Due to QC samples failure the reported result is for information only.
R26 Due to laboratory error, the reported result is for information only.
R27 The BOD/CBOD incubation temperature rose above 21°C, the result is for information only.

Attachments

I. Chain of Custody (1 page)





LIMS # (TRA Lab No.): 1108120
 LIMS Text ID (TRA Lab ID): 2015-013131

Customer Name: City of De Soto
 Customer Address: 620 N. Westmoreland

Attention: Jesus Badillo
 Telephone #: 9-230-5726

Sample ID.: Stock Pond South
 Location: 2315 Bolton Boone Rd
 Sample Matrix: Non Potable water
 Collected by: Jesus Badillo
 Date/Time Collected: 09/03/2015 11:28
 Relinquished by: Jesus Badillo
 Received by: Paul Miller 13:30
 Relinquished by: Paul Miller
 Received by: B-L

Date/Time Relinquished: 09/03/15 11:28
 Date/Time Received: 09/03/15 11:30
 Date/Time Relinquished: 09/03/15 11:38
 Date/Time Received: 09/03/15 11:41

Physical

☐ Total Suspended Solids
☐ Volatile Suspended Solids
☐ Total Dissolved Solids
☐ Total Solids
☐ Total Volatile Solids
☐ % Total Solids
☐ % Volatile Solids
☐ pH
☐ Turbidity
☐ Specific Conductance

Anions

☐ Alkalinity-Total as CaCO₃
☐ Alkalinity-Phiph as CaCO₃
☐ Bicarbonate (H₂CO₃)
☐ Carbonate
☐ Chloride
☐ Fluoride
☐ Sulfate

Nutrients

☒ Ammonia Nitrogen
☐ Ammonia Nitrogen-Dist
☐ Kjeldahl Nitrogen-Total
☐ Nitrate Nitrogen
☐ Nitrite Nitrogen
☐ Nitrate/Nitrite Nitrogen
☐ Total Nitrogen
☐ Organic Nitrogen
☐ Phosphorus Ortho
☐ Phosphorus-Total

Biological

☐ 5 Day-Total
☐ 5 Day-Carbonaceous
☐ 7 Day-Total
☐ 7 Day-Carbonaceous
☐ Total Coliforms (Filter)
☐ Total Coliforms (MPN)
☐ Fecal Coliforms (Filter)
☐ Fecal Coliforms (MPN)
☐ Fecal Streptococcus
☒ E. Coli (MPN-Q)
☐ Heterotrophic Plate Count

☐ Chlorophyll a
☐ Pheophytin

Biomonitoring

☐ C. Dubia-Acute 24th
☐ C. Dubia-Acute 48th
☐ C. Dubia-Chronic
☐ D. Pulex-Acute 24th
☐ D. Pulex-Acute 48th
☐ Fathead-Acute 24th
☐ Fathead-Acute 48th
☐ Fathead-Chronic

Metals

Total ☐ Diss. ☐
☐ Aluminum
☐ Antimony
☐ Arsenic
☐ Barium
☐ Beryllium
☐ Boron
☐ Cadmium
☐ Chromium
☐ Cobalt
☐ Copper
☐ Iron
☐ Lead
☐ Manganese
☐ Molybdenum
☐ Nickel
☐ Selenium
☐ Silver
☐ Thallium
☐ Tin
☐ Vanadium
☐ Zinc

☐ Mercury
☐ Chromium +6
☐ Chromium +3

Minerals

Total ☐ Diss. ☐
☐ Calcium
☐ Magnesium
☐ Potassium
☐ Sodium
☐ Silica

Trace Organic

☐ Atrazine
☐ Diazinon
☐ CL-Pesticides
☐ PCB's
☐ VOC
☐ BNA

Sublet

☐ OP-Pesticides
☐ Herbicides
☐ Pharmaceuticals
☐ TCLP-Organics
☐ TCLP-Metals
☐ Phenols
☐ TPH

Miscellaneous

☐ Chemical Oxygen Demand
☐ Cyanide-Total
☐ Cyanide-Amenable to Chlorination
☐ Glycol
☐ Oil and Grease
☐ Hydrogen Sulfide
☐ Hardness
☐ Total Organic Carbon
☐ Dissolved Organic Carbon
☐ UV 254

Special Instructions/Testing: _____

Comment: 2.4°C TR#4 pH=2 LIMS# 1082509 BHL 9/3/15

No. of Cont.	Type*	Volume	Preservative
<u>1</u>	<u>Pol y</u>	<u>1 L 4000</u>	<u>H2SO4</u>
<u>1</u>	<u>Pol y</u>	<u>120 mL</u>	<u>None</u>

Laboratory Official: Eugenia B

Date Reported: SEP 16 2015

*G(glass), P(plastic), VOC(vials)

9/3/15
BW

Form F-085-SP
 Effective Date: 4/26/12
 Lab Initials: BM

Request: 117643 Entered on: 08/25/2016 10:03 AM By: Sharon Carmichael

Customer Information

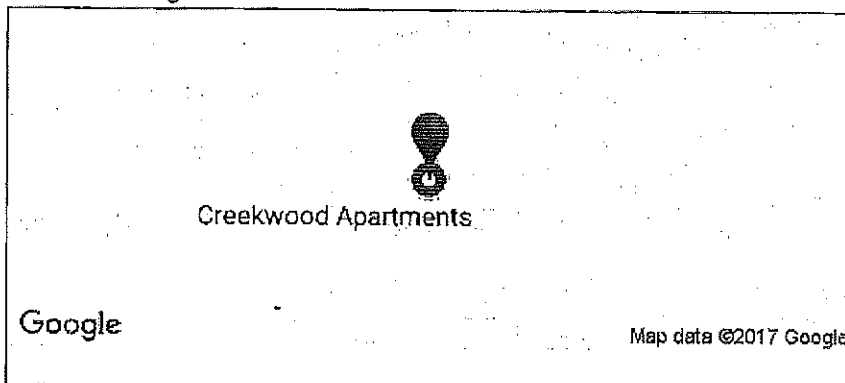
Name: Creekwood Apartments
Address: 212 W. Wintergreen Rd.
DeSoto, TX 75115

Phone: (469) 328-7345
Alt. Phone:
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 212 W Wintergreen Rd

Request type: Problem
Priority: Normal
Entered Via: Phone



Description

Caller said there was a sewer backup in the city's main.

Reason Closed

Derrick, Eddie and Craig were able to finally get the main line blockage cleared and the manhole drained down. There was some asphalt pieces inside the flow line that caused the blockage. We will clean up, disinfect and deodorize the affected area ASAP. 8/25/16

Date Expect Closed: 09/09/2016

Date Closed: 08/25/2016 4:09 PM By: Allan McDonald

Enter Field Notes Below

Notes:

Request: 120125 Entered on: 11/21/2016 08:25 AM By: Sharon Carmichael

Customer Information

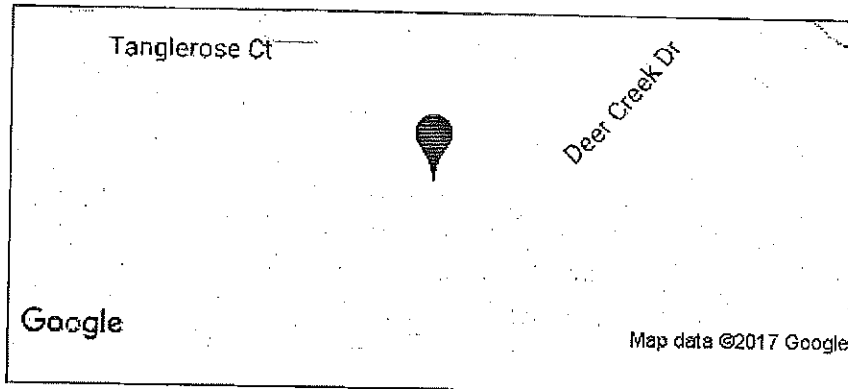
Name: John Hawkins
Address: 1513 Deer Creek Drive
DeSoto, TX 75115

Phone: (972) 274-9422
Alt. Phone:
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1513 Deer Creek Dr

Request type: Problem
Priority: Normal
Entered Via: Phone

**Description**

Customer told answering service on 11/19/16 that the manhole in the alley was spilling out sewage and the smell was awful.

Reason Closed

Damian & Derrick unstopped the sewer main from the manhole at Tanglerose 400' to unstop the blockage. 11/19/16.

Date Expect Closed: 12/02/2016

Date Closed: 11/21/2016 09:40 AM **By:** Allan McDonald

Enter Field Notes Below

Notes:

Request: 125192 Entered on: 06/19/2017 1:44 PM By: Allan McDonald

Customer Information

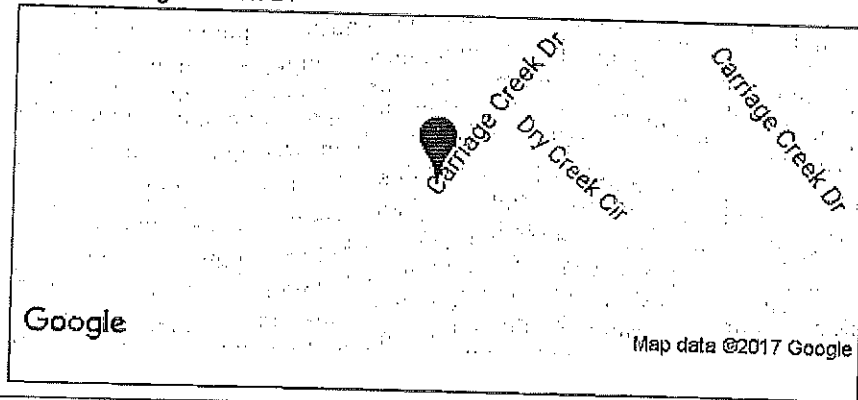
Name: Allan McDonald
Address: 620 N Westmoreland
DeSoto, Texas 75115

Phone: (972) 230-5725
Alt. Phone:
Email: amcdonald@ci.desoto.tx.us

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1653 Carriage Creek Dr

Request type: Problem
Priority: Normal
Entered Via: Phone

**Description**

Jesus and Allan found a sewer main stoppage and overflow in Bee Branch behind 1653 Carriage Creek near the end of Rayburn Dr. 6/16/17.

Reason Closed

Allan, Jesus, Walter and Arthur were able to unstop the sewer main and stop the overflow in the creek on 6/16/17. The manhole lid and ring are missing and will need to be replaced. The stoppage was caused by a tree limb inside the manhole and it has been removed at this time..

Date Expect Closed: 07/03/2017

Date Closed: 06/19/2017 1:49 PM **By:** Allan McDonald

Enter Field Notes Below

Notes:

Notes Taken By: _____

Date: _____

Follow-up Information

#1: 06/19/2017 1:47 PM - Added internal information by Allan McDonald

Allan ordered a new manhole lid and ring from Bass & Hays Foundry on 6/19/17. The products will take approx. 10-12 weeks to be delivered. We will cover this manhole with a piece of plywood for now until the new ring and lid is shipped.

Request: 115871 Entered on: 06/22/2016 7:31 PM

Customer Information

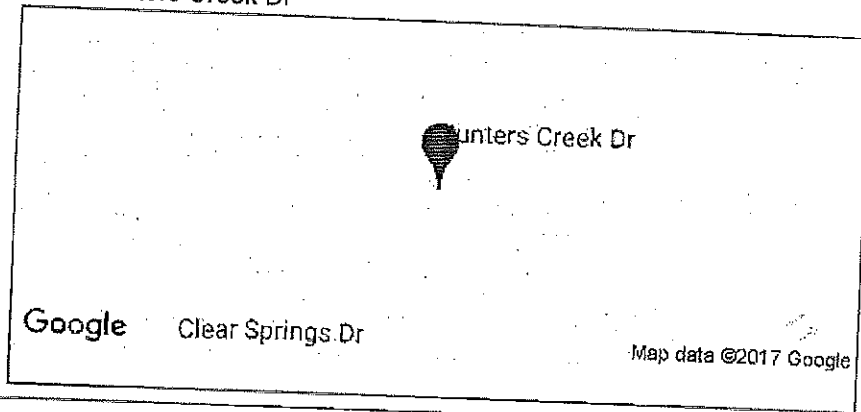
Name: Barbara Kampa
Address: 1002 Hunters Creek Dr
 DeSoto, TX 75115

Phone: (304) 283-6817
Alt. Phone:
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1002 Hunters Creek Dr

Request type: Problem
Priority: Normal
Entered Via: Web



Description

Sewer manhole overflowing

Reason Closed

Arthur and Derrick unstopped the sewer main at 110' downstream of manhole on 6/22/16.

Date Expect Closed: 07/01/2016

Date Closed: By: Allan McDonald

Enter Field Notes Below

Notes:

Request: 114790 Entered on: 05/23/2016 08:27 AM By: Sharon Carmichael

Customer Information

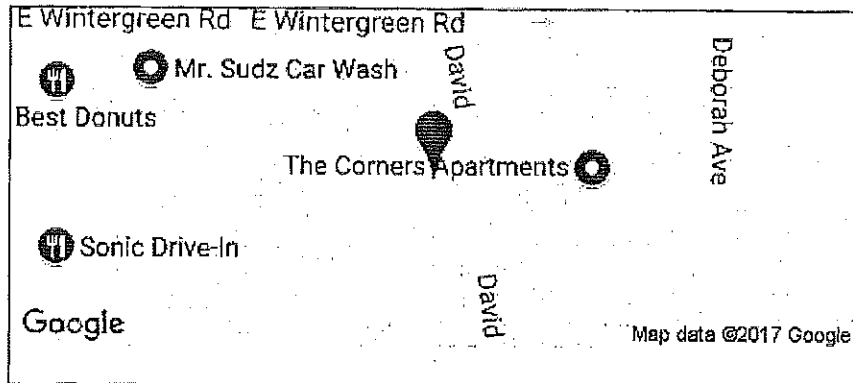
Name: Taylor Brown
Address: 1445 David Ave
DeSoto, TX 75115

Phone: (469) 955-9818
Alt. Phone:
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1445 David

Request type: Problem
Priority: Normal
Entered Via: Phone



Description

Caller told answering service on 5/20/16 that sewage was coming out of the manhole

Reason Closed

Arthur and Derrick unstopped the sewer main from the manhole in the alley behind 201 David. The problem was a grease blockage. 5/20/16.

Date Expect Closed: 06/02/2016

Date Closed: 05/24/2016 08:25 AM By: Allan McDonald

Enter Field Notes Below

Notes:

Request: 113743 Entered on: 04/20/2016 08:23 AM By: Sharon Carmichael

Customer Information

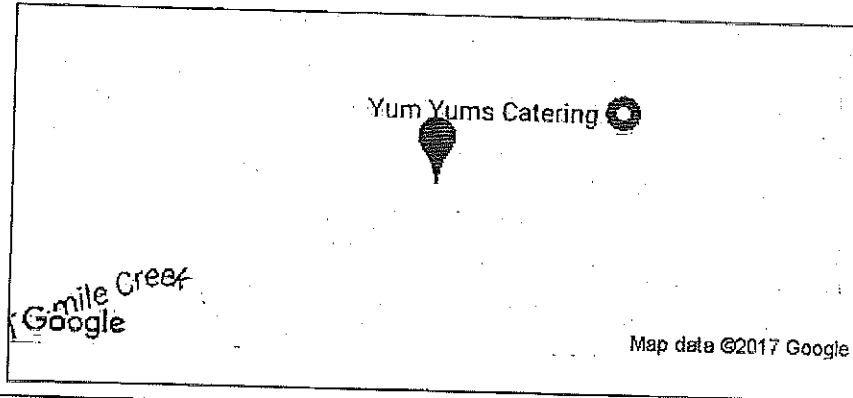
Name: Ronald Horak
Address: 1100 Joanna
DeSoto, Tx 75115

Phone: (214) 298-1768
Alt. Phone: (972) 224-2863
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1100 Joanna Ave

Request type: Problem
Priority: Normal
Entered Via: Phone

**Description**

Caller told answering service on 4/19/16 that sewage was coming up from the manhole cover and running into the alley

Reason Closed

Noe C. and Matt F. unstopped the sewer main 20' downstream from the manhole at 1100 Joanna. 4/19/16.

Date Expect Closed: 04/29/2016

Date Closed: 04/20/2016 08:27 AM By: Allan McDonald

Enter Field Notes Below

Notes:

Request: 113361 Entered on: 04/07/2016 10:54 AM By: Sharon Carmichael

Customer Information

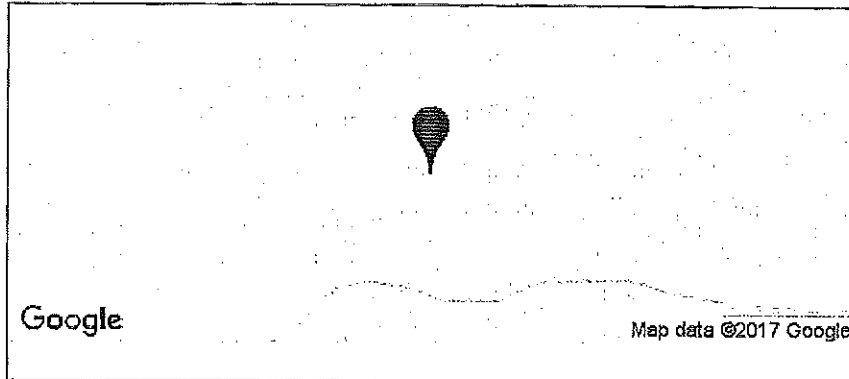
Name: Raeshaan Tanner
Address: 1101 Greenbriar

Phone: (469) 658-1330
Alt. Phone:
Email:

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1101 Greenbriar Dr

Request type: Problem
Priority: Normal
Entered Via: Phone



Description

Customer called answering service on 4/6/16 about sewage leaking in her backyard from the manhole. Someone responded to her that they couldn't help her last night so no one ever came out. She called back this morning hoping to get assistance. She said the overflow had stopped but there was sewage on her yard.

Reason Closed

Aaron and Matt cleaned up area around manhole after the overflow and also disinfected and deodorized the area as well. they spoke with resident. 4/7/2016.

Date Expect Closed: 04/18/2016

Date Closed: 04/07/2016 3:47 PM **By:** Jesus Badillo

Enter Field Notes Below

Notes:

Request: 113235 Entered on: 04/04/2016 08:14 AM By: Sharon Carmichael

Customer Information

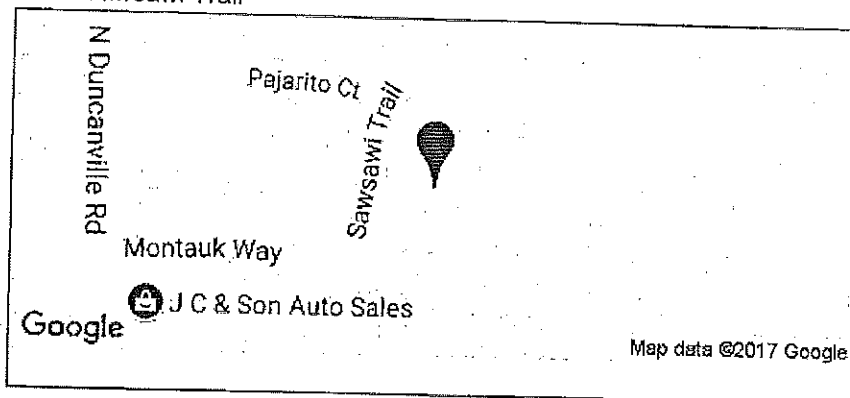
Name: Deborah Opdahl
Address: 1104 Sawsawi trail
DeSoto, TX 75115

Phone: (214) 674-9111
Alt. Phone: (972) 709-7624
Email: cdllm@swbell.net

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1104 Sawsawi Trail

Request type: Problem
Priority: Normal
Entered Via: Phone

**Description**

Caller told answering service on 4/2/16 that sewage was coming up out of the manhole.

Reason Closed

Walter and David unstopped the sewer main from the manhole at this address and cleaned up the area, and put deodorizer out. 4/2/16.

Date Expect Closed: 04/13/2016

Date Closed: 04/04/2016 09:01 AM By: Allan McDonald

Enter Field Notes Below

Notes:

Request: 112207 Entered on: 02/18/2016 08:50 AM By: Sharon Carmichael

Customer Information

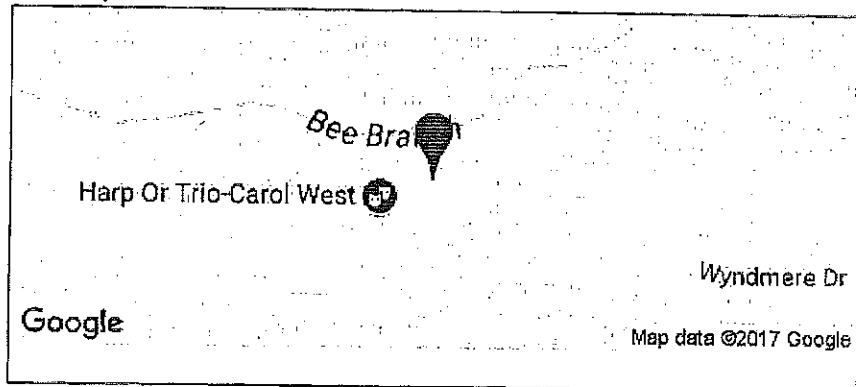
Name: Michael Price
Address: 1501 Wyndmere Drive
DeSoto, TX 75115

Phone: (972) 274-2303
Alt. Phone: (469) 371-6568
Email: myprice1@tx.rr.com

Request Classification

Topic: Sewer Manhole Overflow
Status: Closed
Assigned to: Allan McDonald
Problem Location: 1501 Wyndmere Dr

Request type: Problem
Priority: Normal
Entered Via: Phone

**Description**

Customer told answering service on 2/17/16 that water was coming out of the manhole on their sidewalk.

Reason Closed

Jerry and crew unstopped manhole at the invert, lid fell inside of the manhole and that cause the stoppage. they had to break the concrete around the ring to removed the lid, we need to go back and rehab the manhole.

Date Expect Closed: 02/29/2016

Date Closed: 02/18/2016 3:51 PM By: Jesus Badillo

Enter Field Notes Below

Notes:
