CMOM Annual Report CY2024

Contents

Capacity, Management, Operations and Maintenance (CMOM) Plan Overview

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit No. NM0022250 (Permit), the Albuquerque Bernalillo County Water Utility Authority (Water Authority) prepared this Capacity, Management, Operations and Maintenance (CMOM) Plan. The Permit was renewed in CY2019 with an effective date of December 1, 2019.

The CMOM Plan consists of the following documents:

1. FOG Policy
2. CMOM Annual Report
3. CMOM Program Self-Assessment

The CY2024 CMOM Annual Report follows previous FY2013-17 and CY2017-23 reports. The previous reports, as well as the most recent, can be accessed at https://www.abcwua.org/sewer-system-overview/.

Appendix 5 provides a summary of goals established in this CY2024 CMOM Report.

Report Purpose

As indicated by its name, the CMOM Annual Report will be reissued to describe CMOM activities in the previous calendar year (January 1 to December 31). The CMOM Annual Report provides summary descriptions of CMOM activities (past and planned) and is intended to be a communication tool. The report is intended for Water Authority staff, regulatory authorities, customers, and the general public.

Permit Requirements

The Water Authority discharges to the Rio Grande under authority of NPDES Permit No. NM0022250 (Permit). Under this Permit, the Water Authority operates the Southside Water Reclamation Plant (SWRP) and the Collection System.

The Permit was renewed effective December 1, 2019. The following are the Permit requirements that impact the collection system.

1. The Water Authority shall report all overflows with a (monthly) Discharge Monitoring Report (DMR). (Part I, Paragraph D).
2. Overflow reporting requirements were unchanged for EPA and NMED. (Part I, Paragraph D).
3. Overflow reporting requirements were modified for spills impacting the Pueblo of Isleta (POI) in accordance with the "Pueblo of Isleta Reporting Requirement" which is a subsection of the renewed Permit. (Part I, Paragraph D and "Pueblo of Isleta Reporting Requirement".)
4. The Water Authority shall continue to implement and update (if necessary) the CMOM plan. (Part II, Paragraph E.)

The full permit is available at
https://cloud.env.nm.gov/water/pages/view.php?ref=6881&k=fd428af5b1

CMOM Program Self-Assessment

The United States Environmental Protection Agency (EPA) states (see https://mwrd.org/sites/default/files/documents/USEPA_3-cmomselfreview.pdf): "An important component of a successful CMOM program is to periodically collect information on current systems and activities and develop a "snapshot-in-time" analysis. From this analysis, the utility establishes its performance goals and plans its CMOM program activities." The Water Authority developed Self-Assessments as a part of and an appendix to the FY2013 and FY2014 reports. Because the data provided in the Self-Assessment does not significantly change year-to-year, the Water Authority has set a goal of updating the Self-Assessment every five years as a stand-alone document. This started with the CY2018 Self-Assessment and the CMOM Program Self-Assessment CY2023 has been prepared and posted to https://www.abcwua.org/sewer-system-overview/ along with the CMOM Reports.

The next update will coincide with the CY2028 CMOM Report.

FOG Policy

The Water Authority's FOG Policy is a separate document. The Policy was developed to work in conjunction with the Water Authority Sewer Use and Wastewater Control Ordinance (SUO) and Enforcement Response Plan (ERP) to reduce the rate of SSOs in the collection system and decrease FOG loading at the SWRP. The Policy describes expectations for FOG dischargers such as Food Service Establishments (FSEs), waste haulers and the steps the Water Authority is taking to mitigate FOG.

The new NPDES Permit was effective December 01, 2019, allowing for an update to the Industrial Pretreatment Program which consists of the SUO, the FOG Policy, and the ERP. This update started with an amendment to the SUO, which the Water Authority Board approved on July 05, 2021. (The approved SUO is available at Sewer Use and Wastewater Control Ordinance.) The approved amendment addresses solids with the result that the FOG requirements now becomes Fats, Oils, Grease and Solids (FOGS). FOGS is the term used within the Water Authority SUO, FOGS Policy, and ERP. The approved amendment also served to standardize terminology to match plumbing code and industry standards and include Hydromechanical Grease Interceptor (HGI) exclusions to the 25% rule. Grease Removal Systems (GRS) are now referred to as Grease Interceptors (GI). HGIs being more efficient GIs are allowed to hold up to 50% grease and solids. The FOGS Policy and ERP were revised in 2023 to reflect SUO changes and bolster both documents.

The FOGS Policy sets a Water Authority goal of inspecting every FSE at least once every three years. Details of what is expected of the FSE in terms of Grease Interceptor (GI) functionality, pumping schedule, maintenance, and recordkeeping are identified. The FOGS policy explains the Water Authority use of the 25% solids and grease rule (25 Percent Rule) to determine if a GI is filled to capacity. The policy also contains Best Management Practices (BMPs) such as scraping plates, using screens, and not using emulsifiers, etc.

Pumper requirements are also covered in the FOGS Policy. Full evacuation of a GI is required each time pumping occurs. The pumper must leave the FSE documentation in the form of manifests that contain pertinent information such as date, time, volume pumped, and the condition of the GI. The FOGS Policy lists the minimum service to be provided by the pumper.

Enforcement of FOGS violations and hauled wastewater violations is described in the FOGS Policy. The FOGS Policy works in conjunction with the ERP to set administrative assessments for violations.

The FOGS Policy also sets forth the process for identifying new sources of FOGS. The Water Authority Pretreatment Program will update the FOGS database on an annual basis. The FOGS Policy sets a goal that the Water Authority will meet with the City of Albuquerque, Bernalillo County, the Village of Los Ranchos, the Village of Corrales, plumbers, and the New Mexico Restaurant Association on a periodic basis to discuss FOGS issues.

The Pretreatment Program documents including the FOGS Policy and ERP have been revised to match the Ordinance updates and were submitted to EPA August 23rd, 2023. Final approval of the Pretreatment Program by EPA was received April 24th, 2024.

FOGS Enforcement

In CY2024, the Water Authority Pretreatment Program had 1,948 compliant FSEs out of 2,265 FSE sites for a compliance rate of 86%. Six hundred and fifty-nine (659) FSE inspections were conducted with 394 passing, and 264 failing. Of the 264 failed inspections, 18 Notices of Violation were issued. Nine (9) of the 18 violations were resolved, and the remainder are outstanding.

In response to SSOs, four (4) FSE inspections were conducted with two (2) passing and two (2) failing. Of the two (2) failed inspections, zero (0) Notice of Violations was issued, and the deficiencies have been corrected. Additionally, one (1) potential solid discharger was inspected, and it was determined that further action would be necessary to prevent cementitious mineral deposits in the sanitary sewer. See the FOGS Policy Implementation for goals associated with this cementitious material caused SSO.

In addition, Water Authority Pretreatment personnel distributed 659 FOGS brochures to FSEs at every inspection. Additionally, FOGS brochures were also hand delivered to single-family residences and apartment complexes upstream of grease caused SSO.

SSO Analyses

Permit Requirements

The Permit requires a CMOM Plan. The Plan goal is to reduce SSOs. The FOG Policy states that the Pretreatment Program will investigate all SSOs related to large amounts of grease. The policy is to take enforcement actions for violations of FOG requirements with priority on FSEs causing repeat SSOs.

SSO Study Team

To meet these requirements, the Water Authority created an SSO Study Team. The Team is comprised of:

1. Collection Section – Research Analyst (team lead), Gravity Superintendent, Assistant Superintendent and Closed-Circuit Television (CCTV) Supervisor;
2. NPDES Pretreatment –Industrial Pretreatment Engineer, Wastewater Quality Supervisor and Pollution Prevention Specialist.

The Mission Statement for the Study Team is: *The SSO Study Team will work inter-divisionally to study, analyze and determine causes of previous SSOs to mitigate future SSOs in the Collection System.*

The Study Team procedure is:

1. Tabulate all 10-40s, 10-42s and 10-48s (see Table 1 for definitions).
2. Ensure all segments responsible for causing 10-42s and 10-48s are televised.
3. The Research Analyst will review and analyze all CCTV inspections to determine causes (if possible) and document findings.
4. To conduct meetings with the SSO Study Team to review and analyze CCTV that needs further investigation for resolution.
5. Recommend/implement and document mitigations (if possible) based on analysis.
6. Coordinate with NPDES Pretreatment concerning grease issues discovered during analysis.

Table 1 Sewer Trouble Definitions

Sewer Trouble Definitions		
10-40	Sewer Backup	A gravity line blockage that does not result in a spill, or in the vacuum system, a low vacuum (low vac) that causes a customer service disruption. Does not result in an SSO Reportable (10-42) or a Property Damage (10-48).
10-42	SSO Reportable	An overflow of sewage from the system that may impact surface waters. These are reported to the EPA and other locally impacted stakeholders.
10-48	Property Damage	An overflow of sewage from the system that results in damage to private property. These are not reportable under current definitions.

Appendix 1 identifies all 10-42s and 10-48s, and the overflows that resulted in both a 10-42 and a 10-48. When documenting the number of Sewer Troubles of different types, for example in Figure 1 and Figure 2, the 10-42 item includes all overflows that may impact surface waters, including those that also had property damage; the 10-48 item includes overflows that only resulted in property damage. This prevents double-counting the number of overflow occurrences.

All 10-40s, 42s and 48s were CCTV inspected, although only 10-42s are "reportable", i.e., required to be reported to the EPA, et al. All 10-42s and 48s were then examined by the Study Team and a Cause and Mitigation were determined.

Table 2 Types of Causes for SSOs

Cause(s) of SSO from DMR		**Causes determined from CCTV**
CO – Construction	**DB** – Debris	**SC** – Surcharged
CU-Cause Unknown	**RK**-Rocks	**SL** – Sag in Line
EQ – Equipment Failure	**GR** – Grease	**IT – Intruding Tap**
SGG-Sand, grit or gravel	**RT** – Roots	**MH** – Manhole
LF – Line Failure	**RN** – Rainfall	**OJ –** Offset Joint
V – Vandalism	**RGS**-Rags	
RGR – Roots / Grease		

Burps, abbreviated BP, occur during Vactor jetting when air is displaced and water is forced out of home fixture P-traps, e.g., toilets and sinks. These sometimes result in claims and are therefore included in the Property Damage totals for completeness and consistency. As indicated in Appendix 1, there was one burp during CY2024. Because burps are not an SSO, burps are not included in other tables or graphs.

Causes & Mitigations

The Cause(s) were selected from Table 2 that identifies SSO causes from the DMR and CCTV. The monthly SSO DMR has a specific list of Causes that are based on system observations made by an Operator or Supervisor at the site of an SSO. The CCTV data provided to the Study Team often results in a different, more refined Cause or Causes. Table 3 provides the causes determined by the Study team for CY2024. (Note: Percentages may not add up to 100%, as they are rounded to the nearest percent.)

Table 3 Summary of Causes from SSO Study

10-42,10-48 Causes	Total	% of Total
Cause Unknown	2	8%
Cause Unknown/Debris	0	0%
Construction	0	0%
Construction/Debris	0	0%
Construction/Line Failure	0	0%
Debris	3	12%
Debris/Grease	0	0%
Equipment Failure	2	8%
Grease	1	4%
Grease/Rags	1	4%
Grease/Sag in Line	1	4%
Line Failure	4	15%
Manhole/Line Failure	1	4%
Manhole	0	0%
Rags	0	0%
Rags/Sag in Line	1	4%
Roots/Grease/Rags	0	0%
Roots/Grease	0	0%
Roots/Debris	0	0%
Roots/Intruding Tap	0	0%
Roots/Line Failure	0	0%
Roots	7	27%
Rocks	1	4%
Sag in Line	1	4%
Vandalism	1	4%
Grand Total	**26**	**100%**

Mitigations are the steps that the Team identified to prevent a recurrence of an SSO, at least for the identified Cause. Specific Mitigations are very dependent on the conditions observed from the CCTV video and report. This indicates the condition of infrastructure where SSOs are occurring. Table 4 provides a summary of the various Mitigations. The Mitigations are tracked through completion or implementation. (Note: Percentages may not add up to 100%, as they are rounded to the nearest percent.)

Table 4 Summary Mitigations from SSO Study

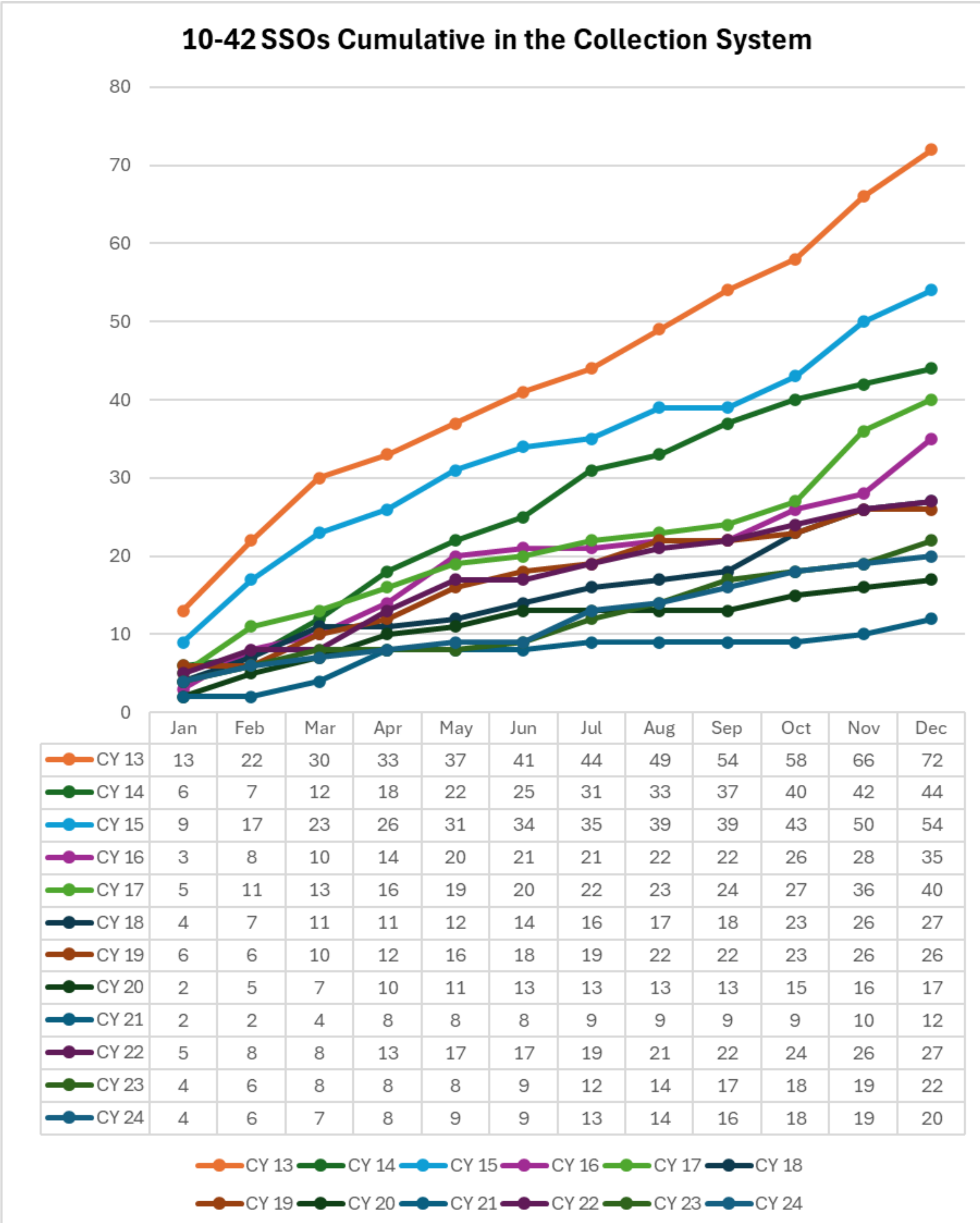
10-42, 10-48 Mitigations	Total	% of Total
Pretreatment Notified	1	4%
Pretreatment Notified/Short Interval	0	0%
Rehab	0	0%
Rehab/Replace	4	15%
Rehab/Replace/No Follow Up Needed	4	15%
Rehab/Short Interval	1	4%
Inspection	1	4%
Short Interval	8	31%
Short Interval/Rehab/Replace	0	0%
Short Interval/Special Instructions	6	23%
Short Interval/Special Instructions/Pretreatment Notified	0	0%
Special Instructions	1	4%
Grand Total	**26**	**100%**

Volume Spilled and Recovered

The Water Authority has implemented a policy of capturing spills and documenting actions. Appendix 1 provides the Ultimate Discharge Location for each reported SSO. Appendix 2 provides estimated spill volumes and volumes recovered for 20 reported SSOs for CY2024. Of the spill volume estimated not to be recovered, none were identified as directly reaching the Rio Grande. It was estimated that approximately 32% of the estimated spill volume was recovered in CY2024 as shown in Appendix 2.

SSO Tabulation & Analysis

Figure 1 shows the cumulative 10-42s by month for CY2013-24.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CY 13	13	22	30	33	37	41	44	49	54	58	66	72
CY 14	6	7	12	18	22	25	31	33	37	40	42	44
CY 15	9	17	23	26	31	34	35	39	39	43	50	54
CY 16	3	8	10	14	20	21	21	22	22	26	28	35
CY 17	5	11	13	16	19	20	22	23	24	27	36	40
CY 18	4	7	11	11	12	14	16	17	18	23	26	27
CY 19	6	6	10	12	16	18	19	22	22	23	26	26
CY 20	2	5	7	10	11	13	13	13	13	15	16	17
CY 21	2	2	4	8	8	8	9	9	9	9	10	12
CY 22	5	8	8	13	17	17	19	21	22	24	26	27
CY 23	4	6	8	8	8	9	12	14	17	18	19	22
CY 24	4	6	7	8	9	9	13	14	16	18	19	20

Figure 1 Reportable SSOs

Appendix 1 contains a list of every 10-42 and 10-48 event in CY2024. The table columns are grouped as follows:

1. The type, i.e., 10-42 or -48, is identified on the left. In one case a single event was both a 10-42 and a 10-48, as indicated.
2. Next to the right are the data included in the monthly SSO DMRs. It is noted that a "Reported Cause" is listed. This is typically based on the observations of the Operator that reported the SSO.
3. Next to the right is data determined by the Study Team:
    a. Cause
    b. Mitigation
    c. If Pretreatment follow-up is necessary
4. To the far right are follow-ups by NPDES Pretreatment
    a. FSEs visited
    b. Notice of Violation issued

The SSO Rate is defined as 100 times the number of SSOs in a year divided by the miles of sewer in the system. The Water Authority system has a total of approximately 2,596 miles of line (p. 8 of the Self-Assessment). The CY2024 SSO rate is therefore 20 SSOs / 25.96 = 0.77.

Figure 2 shows the total sewer troubles, i.e., 10-40s, -42s, and -48s by year for CY2012-24.

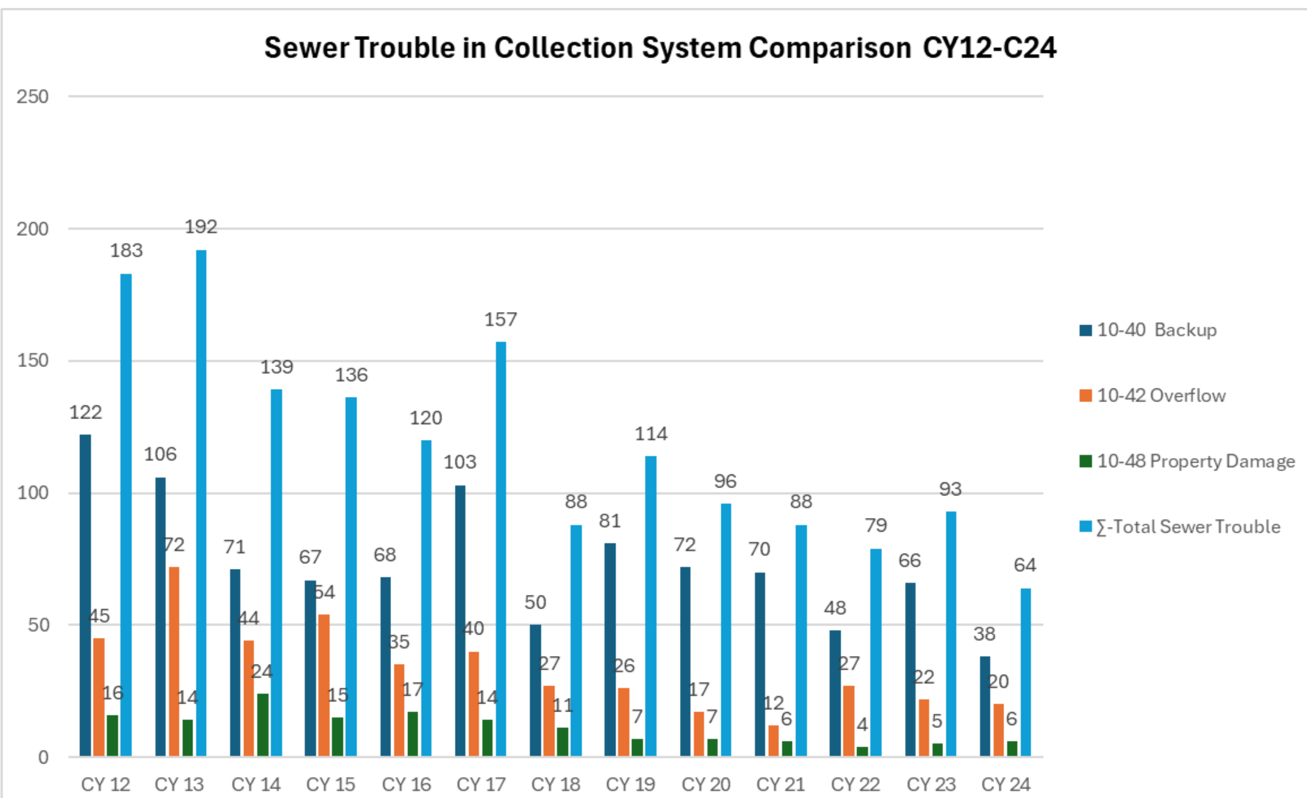


Figure 2 Sewer Trouble Comparison

Actions Implemented and On-Going Programs

General

Below are gaps that were identified in the CY2023 CMOM Report and were closed in CY2024, or are on-going programs, or both. In addition to the commitments made in the CMOM Report, in CY2024, the following additional actions were taken to expand the Water Authority's ability to operate and maintain the system.

The Water Authority's Public Affairs section continued to support SSO prevention efforts and the FOG Policy in CY2024. Appendix 3 identifies media specifics for water bill inserts, and social media public outreach efforts.

FOGS Policy Implementation

The FOGS Policy is an on-going program and FOGS Enforcement efforts are a part of this program. Both the FOGS Policy and the FOGS Enforcement efforts are described above. On-going efforts are described in the FOGS Enforcement section and not reiterated here.

The Water Authority has long had a FOGS flyer for Food Service Establishment and residential homes in English. A FOGS flyer in Spanish was developed and implemented in CY2019 and a FOGS flyer in Vietnamese was developed and implemented in CY2020. The Water Authority continues to distribute these flyers to all FOGS Facilities and residential units during routine inspections and SSO investigations to continually improve education to the rate payers on the negative impacts of FOGS. In CY2022 Pretreatment improved FOGS inspections by using advanced inspection tools and will continue utilizing these tools into the future. The goal for CY2023 was to tabulate the number of flyers distributed during inspections as well as find community outreach opportunities for FOGS related education. The Water Authority implemented procedures to tabulate the distributed flyers for FOGS Establishment inspections and blanketing neighborhoods where residential FOGS caused SSOs. A total of 659 flyers were distributed in CY2024. In addition to the flyer Goal, the Water Authority's other FOGS goal was to submit and receive the updated Pretreatment Program to the EPA for review. The submittal was made August 2023, and acceptance was received in April 2024 with no comments or changes by EPA. The ongoing goal is for the Pretreatment program to implement the FOGS Policy and Enforcement procedures by means of new SOPs and enforcement templates which has been completed.

As a CY2025 goal we plan to evaluate every concrete company in our service area to understand how they manage their wash water. After such time, we will develop a Best Management Procedures (BMP) document for these potential solids dischargers and disseminate it out to them to make sure they all follow the new BMPs in CY2026.

As a long-term goal, with the addition of Solids to the FOGS policy we will strive to pick a potential solids discharger category of business for which to evaluate and develop BMPs. The first year we will inspect, evaluate and add to our FOGS database for routine pretreatment device (grease, solids, oil interceptors) inspections. The second year we will develop the BMP flyer and distribute to the facilities.

Pilot Manhole Monitoring Project

The Water Authority initiated in CY2022 a pilot study of manhole monitoring. The intent is to study flow monitoring and evaluate if this technology may be appropriate for use in the Water Authority's Collection System. This pilot project will help the Water Authority meet its CMOM Plan commitment to maintain a program to continuously improve in terms of SSO reduction. Ten monitors were obtained, and ten locations were selected for deployment. Through the pilot study to date, we have learned specifics of the vendor provided equipment and services, and gained insights into the requirements, staffing and otherwise, if the Water Authority were to scale this up and make it a permanent program. The pilot study has been extended to the end of FY2026.

Manhole monitoring can be used to prevent SSOs at known locations prone to blockages and for monitoring specific locations with other risk factors. SSO prevention at problem locations is the most common use and was the initial reason for the pilot. Given the Water Authority's low SSO rates and maximum cleaning frequency, it is unclear if this application is cost effective, particularly when development of a full program, including staff, is considered.

Odor Complaints

Odor complaints are tabulated and reported monthly. The Water Authority odor control program is described in the CMOM Self-Assessment Report in the Hydrogen Sulfide Monitoring and Control (HSMC) section in the current CMOM Program Self-Assessment.

Closed Circuit Television (CCTV)

This is an on-going program. The following recommendation is made in the FY2013 CMOM Report: "CCTV inspections of the collection system as follows: 1) Small diameter main lines less than 15": In four of five years, televise approximately 5% per year of the small diameter system. Televise high risk lines based on current Asset Management Plan and subsequent in-house analysis. 2) Large diameter lines 15" and larger: Every fifth year, televise as much as possible acknowledging access limitations of the unlined concrete lines 15" and larger. Anticipated schedule: 3) FY2014-17: 5% of the small diameter each year. 2) FY18: Large diameter unlined concrete pipe."

CMOM Report figures for cleaning and CCTV will continue showing fiscal year (FY) goals in accordance with funding and contracting cycles and actual metrics will reflect work through the end of the calendar year (CY). Figure 3 provides the CCTV goal for a ten-year basis and the actual CCTV inspection through CY2024. The CY2024 portion of this recommendation is complete. The CCTV program will continue. Anticipated schedule:

1. FY24: 5% of the small diameter.
2. FY25: 5% of the small diameter.
3. FY26: 5% of the small diameter.
4. FY27: 5% of the small diameter.
5. FY28: Large diameter unlined concrete pipe.

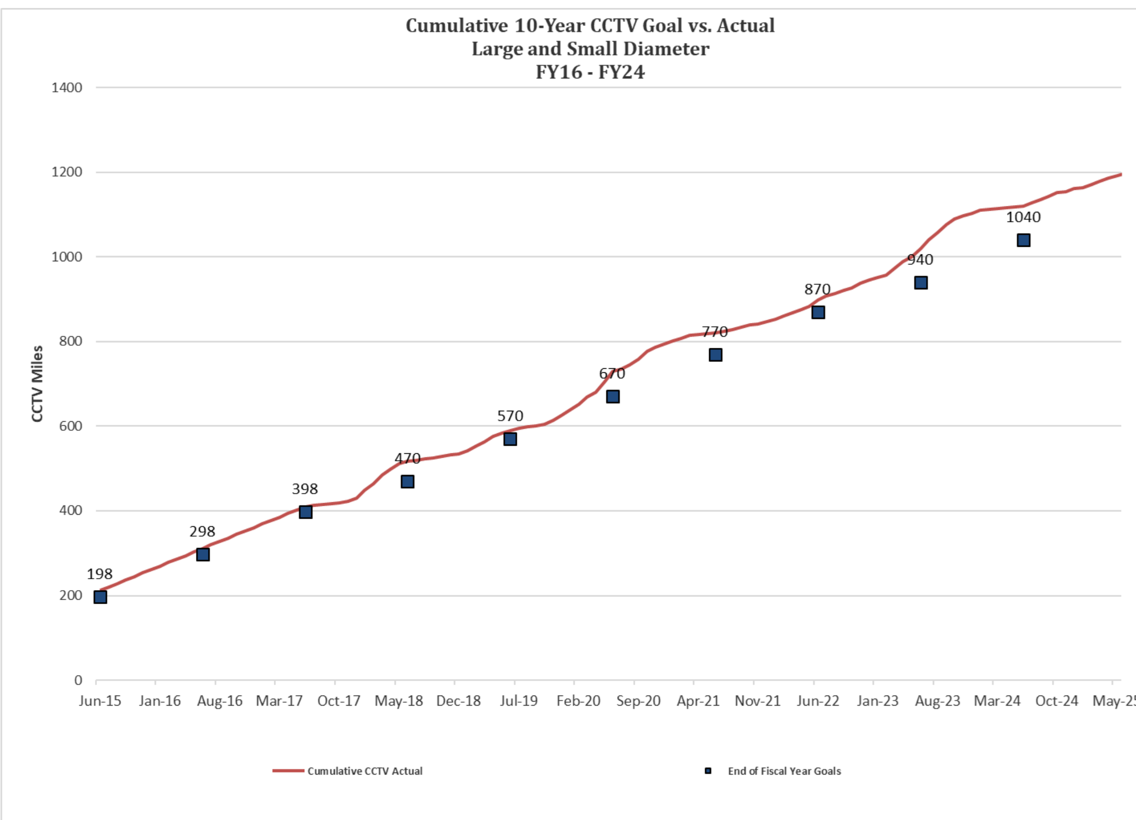


Figure 3 Small & Large Diameter Sewer CCTVed vs. Ten-Year Goal

Cleaning Program Goal

This is an on-going program.

The following recommendation is made in the FY2013 CMOM Report: "The Water Authority will establish and monitor a goal of cleaning all gravity small diameter lines every ten years. (This will be accomplished through the existing Sub-Basin program.) The Water Authority will continue the program of high-frequency maintenance of known problem locations within the system. (This will be accomplished through the existing Short Interval program.) The frequency of Short Interval cleaning will vary in accordance with system performance and risk factors, maintenance history, and the latest maintenance findings."

In the CY2021 CMOM Report, the Water Authority established a temporary goal of cleaning all small diameter lines, i.e., Sub-Basin program, every fifteen years, rather than the previously established ten-year goal. (This temporary goal was extended for CY2022-23.) Water Authority studies indicate that Short Interval lines consistently experience a higher SSO rate than the Sub-Basin lines. This indicates that even more cleaning of Short Interval lines, with a commensurate decrease in Sub-Basin cleaning, will result in a net reduction of total SSOs in the system. The Water Authority will monitor SSO rates and extend efforts to increase the effectiveness of the cleaning program. The 15-year temporary goal continues through CY2024.

The Water Authority is active and at the forefront of an effort to increase the effectiveness of O&M cleaning. In June, the Water Authority presented a well-received paper to the Collection Systems Conference 2023 describing improved O&M developed by the Water Authority and the need for the industry to develop more effective cleaning criteria. The Water Authority is active in the O&M Technical Project Group (TPG) of the Water Environment Federation (WEF) Collection Systems Community (CSC). The O&M TPG has undertaken the study of the effectiveness of current industry criteria for preventive cleaning, i.e., the area-wide and hot-spot cleaning programs, utilized by the Water Authority and other utilities. The O&M TPG sponsored a 90-minute technical session (An Interactive Utility Discussion on Collection System Cleaning Programs: Building Consensus on a New Paradigm) at WEFTEC. This technical session is the first step in the development of industry criteria that support effective and affordable collection system O&M. The TPG is now developing a questionnaire to distribute to interested utilities.

Figure 4 shows the actual cleaning performed by fiscal year. The modified Sub-Basin goals are shown starting with CY2022.

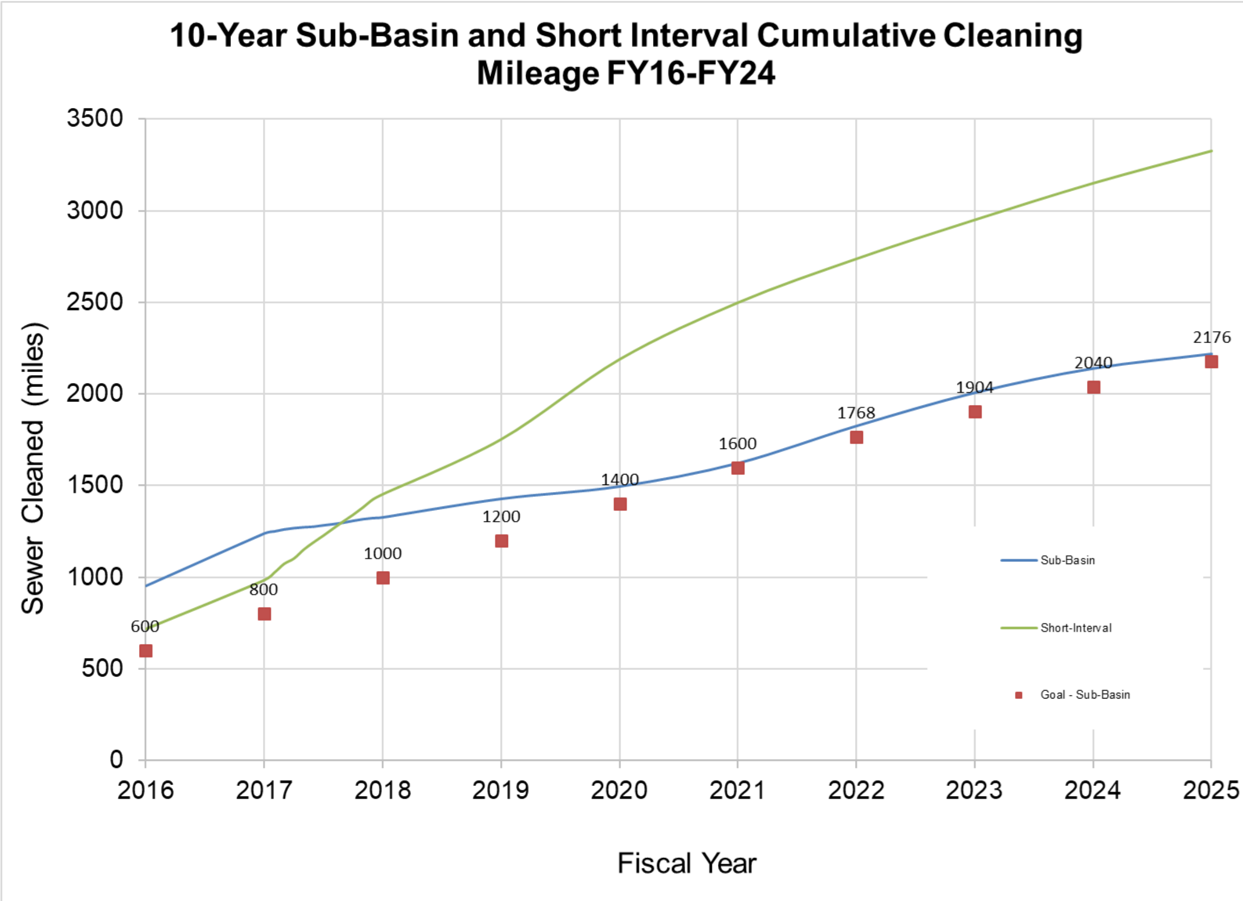


Figure 4 Small Diameter Sewer Cleaned vs. Ten-Year Goal

December 26, 2024 SSO – Lift Station 20 Force Main Break

On December 26, 2024, the south force main failed and an SSO occurred. (See Appendix 1 for more details.) All flow was routed to the above ground HDPE force main installed after the north force main failed. See CY2024 CMOM Report for more discussion.

Resulting from this SSO, the Water Authority has identified three issues to be addressed in CY2025.

The first issue is to upgrade the pipes that have failed. With the loss of both of the existing force mains, all flow is being handled by a single, above ground force main. The Water Authority has an on-going design to replace the failed pipes.

In CY2025, the Water Authority proposes to complete the design of new, buried force mains to replace the failed pipes, bid, award, and start construction. In CY2026, the Water Authority proposes to complete construction of new force mains from LS20 to the Atrisco Riverside Drain, replacing the failed pipe.

The second issue is control of a post-spill construction site. After the SSO, barricades were placed to prevent public entry to the area that the pipe had broken. The barricades were insufficient, as the public did move barricades and enter. In CY2025, the Water Authority proposes to take steps to control post-spill construction areas. The Water Authority proposes to award a contract for on-call fence work including emergency installations.

The third issue is notification of Albuquerque Public Schools (APS) in the event of a spill impacting APS property. The Water Authority called Harrison Middle School and left a message, however, due to the holidays, this message was not received until school was back in session. In CY2025, the Water Authority will add APS contacts with cell phones to assure emergency contact.

Force Main Inspection Program

This is an on-going program. The alignment of force main is annually inspected from the surface. Valves found in field are compared to those in the GIS mapping and corrected as appropriate. Inspection information is stored in Maximo.

In CY2025, the Water Authority will inspect at least one of the LS20 force mains under the Atrisco Riverside Drain.

In CY2025, the Water Authority will award a construction contract to upgrade valving control of the two force mains serving LS24. During this project, the Water Authority will CCTV a short segment of each force main to look for signs of erosion.

Overflow Emergency Response Plan (OERP)

This is an on-going program to update the OERP as required. The Collection Section is the "owner" of the OERP. The Collection Section creates the components of the OERP, and routes for internal review/approval (specifically including the Compliance Division). The completed portions are approved for posting to SharePoint by the Collection Section Manager. In CY2024, the OERP was updated (7-25-2024). The edits were minor to update contacts with AMAFCA and NMDOT. Appendix 4 provides the OERP which was in effect at the end of CY2024. The most current version of the OERP is posted to http://www.abcwua.org/Sewer_System.aspx

In CY2024, the Water Authority practiced an SSO response. See below.

Practice Response to SSO Reaching NDC

On December 12, 2024, starting at ~1:50 p.m., a field meeting was held to simulate a sanitary sewer overflow (SSO) reaching the North Diversion Channel (NDC). The meeting was at the northeast corner of north frontage road for Paseo del Norte and the NDC. This is preferred location to block an SSO and pump it back into the sewer system and prevent the SSO from reaching the Rio Grande. Participants included representatives from the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), the Pueblo of Isleta (POI), and the Water Authority.

The purpose of the meeting was to: 1) Communicate and discuss the processes the Water Authority follows in responding to SSOs, particularly a Category One SSO; 2) Describe the joint efforts by AMAFCA and the Water Authority to block and remove a spill reaching the NDC. Appendix 6 includes the related email correspondence and sign-in sheet.

Identified Gaps in the Water Authority Processes with Recommendation to Close

In the process of continuous improvement, the Water Authority is committed to identifying and closing gaps. As discussed above, most of these recommendations are now considered On-Going programs.

Satellite System Contracts

Satellite communities operate collection systems that discharge wastewater to the Water Authority Collection System for conveyance to the SWRP and treatment. These satellite systems are not owned by the Water Authority and do not fall under the Water Authority's NPDES Permit. Satellite communities are addressed the Water Authority CY2023 CMOM Self-Assessment. See checklist items under Satellite Communities and Sewer Use Ordinance (SUO) on p. 12-13 (https://www.abcwua.org/wp-content/uploads/2025/01/CMOM_Self-Assessment_CY2023_Final-Post.pdf).

In accordance with the Self-Assessment checklist, the EPA desires that a contract be established with each satellite system and the contract include various provisions such as inclusion of the requirements of the Sewer Use Ordinance (SUO). While the Water Authority will enforce the SUO, which applies to all customers, where necessary, the current contracts with satellite communities do not include all the provisions identified in the Self-Assessment form.

Recommendation: The Water Authority will review its agreements with satellite communities and determine necessary steps to effectively implement the suggestions in the Self-Assessment document.

Prohibited Discharges, i.e., SSOs

The Water Authority acknowledges that prohibited discharges have occurred and that all discharges from the sanitary sewer system are prohibited.

Recommendation: The Water Authority will annually examine sewer system performance, set specific steps for decreasing SSOs and mitigating their impacts, and has a program of continuous improvement.

Appendices

Appendix 1 Sanitary Sewer Overflow Analysis Table

Type			DMR														SSO Team Study		Enforcement		
10-42	10-48	10-42 & 10-48	Maximo WO #	Diameter	Repeat	Repeat within 1 year	Date of SSO	Time of SSO	Duration (HH:MM)	Address	Estimated Volume (gallons)	Reported Cause of Overflow	Observed Environmental Impacts	Action Taken	Ultimate Discharge Location	Volume Recovered (gallons)	Cause	Mitigation	Pretreatment Follow Up Requested	FSEs Visited	Notice of Violation
X			3168046	8"	Y	N	2/20/2024	2:04PM	0:55	4905 GLOBUS CT NW	75	DB/RT	N/A	CC/HTH/RP/WD	YD	50	MH/LF	IN			
	X		3125947	8"	N	N	1/16/2024	1:00PM	0:30	2805 LEOPOLDO RD NW	N/A	BP	N/A	IN	N/A	N/A	BP	NF			
X			3140604	8"	Y	N	1/30/2024	7:30AM	1:30	3705 MONTGOMERY BLVD NE	75	GR/RGS	N/A	CC/HTH/PO/CWW/WD	PST	20	CU	NF			
X			3415537	8"	N	N	7/14/2024	10:30 AM	3:10	7136 BELLROSE AVE NE	6,400	DB/RGS	N/A	CC/HTH/PO/CWW/RS/WD/ETD	AC	5,000	DB	NF			
X			3114198	PIT	N	N	1/9/2024	9:42AM	0:38	8646 RIO GRANDE BLVD NW	40	VALVE AND CONTROLLER	NEAH	CNTRLR/CV/ET/IN	PST	0	EQ	NF			
X			3142897	2"	Y	N	1/30/2024	4:00PM	1:00	5531 MIDWAY PARK PL NE	50	LF	N/A	HTH/RP/WD	PST	50	LF	NF			
X			3667402	8"	N	N	11/30/2024	12:30 PM	1:12	2223 UPTOWN LOOP RD NE	10	RGS	N/A	CC/HTH/PO/CWW/RP/RS/WD	O	10	SL/RGS	PT	X	1	1
X			3308796	8"	Y	N	5/1/2024	8:03AM	2:22	4720 SAN MATEO BLVD NE	430	RGS	NEAH	CC/HTH/PO/CWW/WD	SD	400	GR	RH			
X			3399321	2"	N	N	7/1/2024	1:25 PM	7:30	4639 ORCHARDS CT NW	25	LF	N/A	HTH/PO/RP/WD	YARD	25	LF	RH			
X			3142914	8"	Y	N	1/30/2024	7:13PM	0:13	175 MONTE ALTO PL NE	3,000	GR/RGS	N/A	CC/HTH/PN/PO/CWW/RP	O (NM DOT STORM DRAIN/DIRT)	2,200	RT	RH/ SI			
X			3204976	8"	Y	N	3/13/2024	8:58am	1:15	148 QUINCY ST NE	450	CU	NEAH	CC/HTH/IN/RP/WD	PST	400	CU	SI			
	X		3415538	8"	N	N	7/14/2024	10:30 AM	3:10	7125 LISA CT NE	N/A	DB/RGS	N/A	CC/HTH/PO/CWW/RS/WD/ETD	N/A	N/A	DB	SI			
X			3436711	8"	N	N	7/26/2024	12:55 PM	2:41	5800 JEFFERSON ST NE	50	DB	N/A	CC/HTH/RP/WD	O (MEDIAN/GRAVEL)	30	DB	SI			
X			3177340	8"	Y	N	2/27/2024	4:05PM	0:04	416 DALLAS ST NE	100	GR/RGS	N/A	CC/HTH/PO/CWW/WD	SD	80	EQ	SI			
X			3412247	12"	Y	N	7/11/2024	1:20 PM	1:05	2105 CENTRAL AV NW	10	GR/RGS	N/A	CC/HTH/IN/RP/WD	PST	10	GR/RGS	SI			
	X		3589471	8"	Y	N	10/20/2024	2:30 PM	2:00	424 57TH ST NW	N/A	GR/RGS	N/A	CC	N/A	N/A	GR/SL	SI			
X			3565252	8"	N	N	10/5/2024	2:30 PM	4:15	5105 CENTRAL AVE NW	80	RK	N/A	CC/HTH/PO/CWW/WD	PST	60	RK	SI			
	X		3160207	8"	N	N	2/13/2024	8:28PM	0:32	612 RUNNING WATER CIR SE	N/A	RT	N/A	CC	N/A	N/A	RT	SI/SP			
	X		3230735	8"	N	N	3/28/2024	9:48am	2:28	12016 VIENNA DR NE	N/A	DB	N/A	CC/IN	N/A	N/A	RT	SI/SP			
X			3298850	8"	N	N	4/24/2024	11:30am	2:30	911 FOUR HILLS RD SE	250	RT	NEAH	CC/HTH/RP/WD	PL	200	RT	SI/SP			
X			3518043	8"	N	N	9/8/2024	1:06 PM	1:22	11321 MONGOMERY BLVD NE	2,000	RGS/RT	N/A	CC/HTH/CWW/WD	PST	1,200	RT	SI/SP			
		X	3540597	12"	N	N	9/22/2024	11:15 AM	3:36	7500 AMERICAN HERITAGE DR NE	6,200	RGS/RT	N/A	CC/HTH/PO/RP/WD/ET/O	PST	2,500	RT	SI/SP			
		X	3586210	8"	N	N	10/17/2024	9:46 PM	0:05	12100 MANITOBA ST NE	20	RT	N/A	CC/HTH/CWW/RP/WD	PST	20	RT	SI/SP			
X			3464641	12"	N	N	8/10/2024	12:20 PM	1:38	8217 CENTRAL AVE NW	2,150	CO/DB/RGS	N/A	CC/HTH/RP/WD	O (CULVERT)	1,500	V	SP	X	1	1
	X		3688265	8"	Y	N	12/11/2024	8:44 PM	0:20	606 13TH ST NW	N/A	DB	N/A	CC	N/A	N/A	SL	RH			
	X		3700583	8"	N	N	12/18/2024	6:52 PM	1:31	241 WYOMING BLVD SE	N/A	GR/RK	N/A	CC	N/A	N/A	LF	SI			
X			3711527	30"	Y	N	12/26/2024	10:30 AM	0:12	3912 ISLETA BLVD SW	95,561	LF	NEAH	HTH/PO/RP	O (SE DIRT AREA)	24,240	LF	RH			

Appendix 2 Sanitary Sewer Overflow Volume Captured Analysis Table

CY2024 10-42 SPILL VOLUME AND VOLUME RECOVERED						
Maximo WO #	**Date of SSO**	**Location**	**Estimated Volume (gallons)**	**Volume Recovered (gallons)**	**Volume Not Recovered**	**% Recovered**
3114198	1/9/2024	8646 RIO GRANDE BLVD NW	40	0	40	0%
3142897	1/30/2024	5531 MIDWAY PARK PL NE	50	50	0	100%
3140604	1/30/2024	3705 MONTGOMERY BLVD NE	75	20	55	27%
3142914	1/30/2024	175 MONTE ALTO PL NE	3,000	2,200	800	73%
3168046	2/20/2024	4905 GLOBUS CT NW	75	50	25	67%
3177340	2/27/2024	416 DALLAS ST NE	100	80	20	80%
3204976	3/13/2024	148 QUINCY ST NE	450	400	50	89%
3298850	4/24/2024	911 FOUR HILLS RD SE	250	200	50	80%
3308796	5/1/2024	4720 SAN MATEO BLVD NE	430	400	30	93%
3399321	7/1/2024	4639 ORCHARDS CT NW	25	25	0	100%
3412247	7/11/2024	2105 CENTRAL AV NW	10	10	0	100%
3415537	7/14/2024	7136 BELLROSE AVE NE	6,400	5,000	1,400	78%
3436711	7/26/2024	5800 JEFFERSON ST NE	50	30	20	60%
3464641	8/10/2024	8217 CENTRAL AVE NW	2,150	1,500	650	70%
3518043	9/8/2024	11321 MONGOMERY BLVD NE	2,000	1,200	800	60%
3540597	9/22/2024	7500 AMERICAN HERITAGE DR NE	6,200	2,500	3,700	40%
3565252	10/5/2024	5105 CENTRAL AVE NW	80	60	20	75%
3586210	10/17/2024	12100 MANITOBA ST NE	20	20	0	100%
3667402	11/30/2024	2223 UPTOWN LOOP RD NE	10	10	0	100%
3711527	12/26/2024	3912 ISLETA BLVD SW	95,561	24,240	71,321	25%
Grand Total			**116,976**	**37,995**	**78,981**	**32%**

Appendix 3 FOG Advertising Campaign

SSO Prevention - Advertising Campaign for 2024

In 2024, the Albuquerque Bernalillo County Water Utility Authority concentrates on radio, television and outdoor message to inform the public about how to prevent FOG (Fats, Oil and Grease) during the two weeks surrounding the Thanksgiving holiday (November 20-28, 2024) and two weeks leading up to and during Christmas as well as a portion of Kwanzaa.

Television Advertising

The Water Authority placed a total of 231 television spots on KOB TV, KRQE TV, KOAT TV, generating an estimated 1,028,300 impressions (with duplication) among adults 25 years of age or older. The target audience saw the FOG message an average of 2.4 times.

Radio Advertising

The Water Authority placed a total of 534 radio spots on six highly-rated local stations reaching adults 25 years or older. This generated an estimated 669,000 impressions with the target audience hearing the FOG message an average of 3.5 times.

Digital Outdoor Advertising

The Water Authority placed a total of 10 digital outdoor boards from November 18-December 1, 2024 and from December 16-29, 2024, generating an estimated 2,737,651 plan market impressions (with duplication) among adults 25+.

Bill Inserts

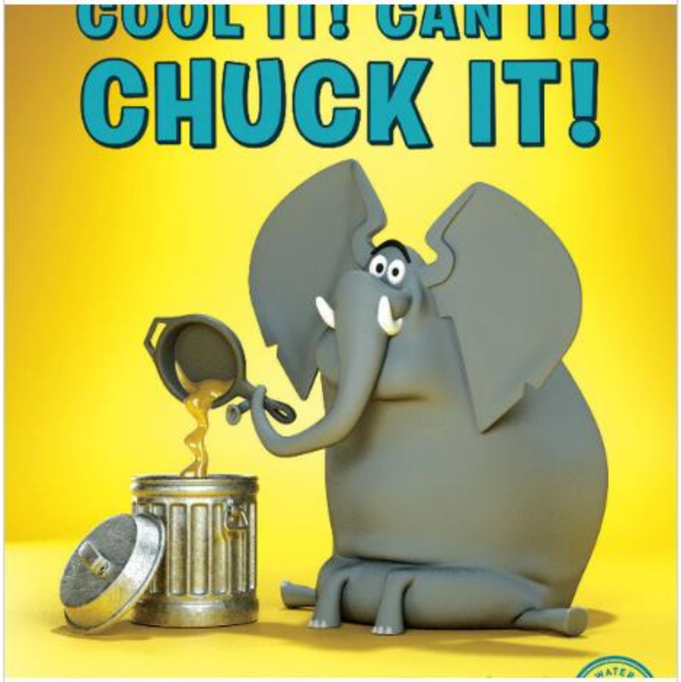
The Water Authority printed and distributed 210,000 bill inserts in customer's bills in March 2024 and December 2024 generating an estimated 420,000 impressions.

Total estimated impressions for this campaign (with duplication): 4,854,951

Nextdoor Posts for 2024:

Albuquerque Bernalillo County Water Utility Authority
Public Affairs Manager David Morris · 18 Dec

REMEMBER...fats, oils and grease should NEVER go down the drain! Cool it! Can it! Chuck it!



Posted to **Subscribers of Albuquerque Bernalillo County Water Utility Authority**

43 · 14,182 Impressions

Albuquerque Bernalillo County Water Utility Authority
Public Affairs Manager David Morris · 27 Nov

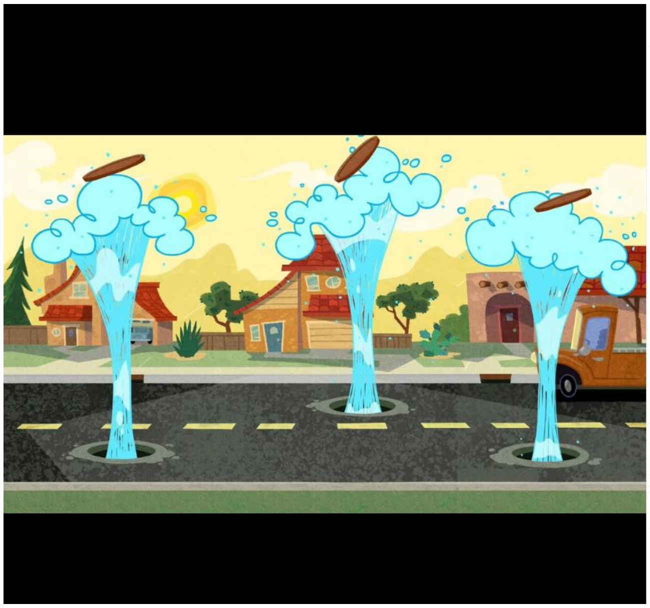
It's finally here—Thanksgiving week! If you're preparing a large meal, don't forget to properly dispose of fats, oils and grease. Cool it. Can it. Chuck it!

Posted to **Subscribers of Albuquerque Bernalillo County Water Utility Authority**

10 1 · 8,126 Impressions

T **Thomas C.** 47w · Mountain Folk
Great animation!
1 Reply Share 1

Instagram Posts:



albuquerquewaterauthority ···

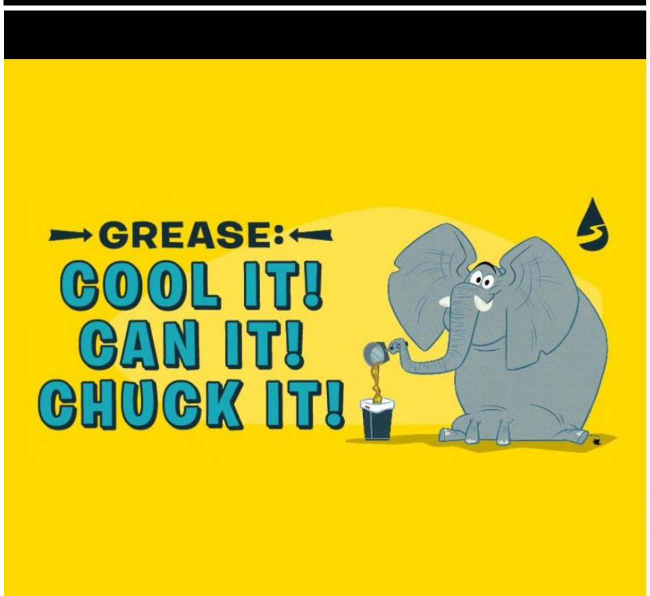
albuquerquewaterauthority Did you know the Water Authority maintains a system of about 2,400 miles of sewer line? All of those lines carry wastewater from homes and businesses to the Southside Water Reclamation Plant for treatment. If you're experiencing a sewer backup, don't hesitate to call 505-842-WATR (9287).

78w

View insights Boost post

Liked by abqneighborhoods and 2 others

April 25, 2024



albuquerquewaterauthority ···

albuquerquewaterauthority Cooking grease is one of the most common causes of sewer line blockages. Please dispose of cooking grease properly: Cool it! Can it! Chuck it!

67w

View insights Boost post

Liked by oneabq and 3 others

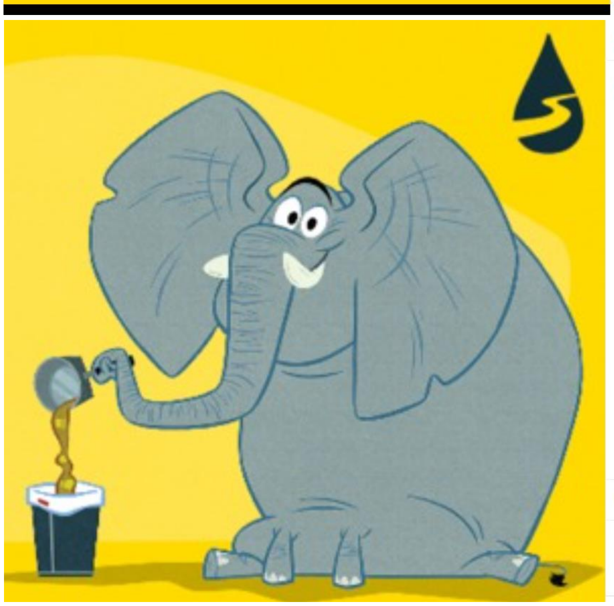
July 10, 2024

albuquerquewaterauthority ···

albuquerquewaterauthority Labor Day Weekend is just around the corner! If you're planning to cook a big meal, don't pour the leftover fats, oils and grease down the drain. Cool it, can it, chuck it!
60w

View insights Boost post

3 likes
August 28, 2024



albuquerquewaterauthority ···

albuquerquewaterauthority REMEMBER...fats, oils and grease should NEVER go down the drain! Cool it. Can it. Chuck it!
52w

View insights Boost post

Liked by oneabq and 1 other
October 22, 2024

albuquerquewaterauthority ···

albuquerquewaterauthority It's finally here—Thanksgiving week! If you're preparing a large meal, don't forget to properly dispose of fats, oils and grease. Cool it. Can it. Chuck it!
47w

View insights Boost post

Liked by oneabq and 5 others
November 26, 2024

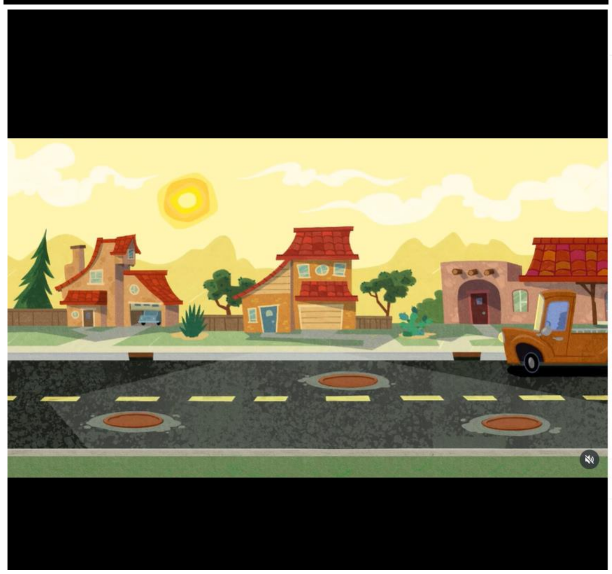
albuquerquewaterauthority
Original audio

albuquerquewaterauthority It's finally here—Thanksgiving week! If you're preparing a large meal, don't forget to properly dispose of fats, oils and grease. Cool it. Can it. Chuck it!
47w

n8vwolf85
46w Reply

View insights
Boost reel

Liked by oneabq and 17 others
November 27, 2024



albuquerquewaterauthority
Original audio

albuquerquewaterauthority Tis the season for holiday food and delights! Whether you're opting for enchiladas, tamales, latkes, brisket, turkey or ham, remember that properly disposing of fats, oils, and grease can help to prevent sewer backups.
44w

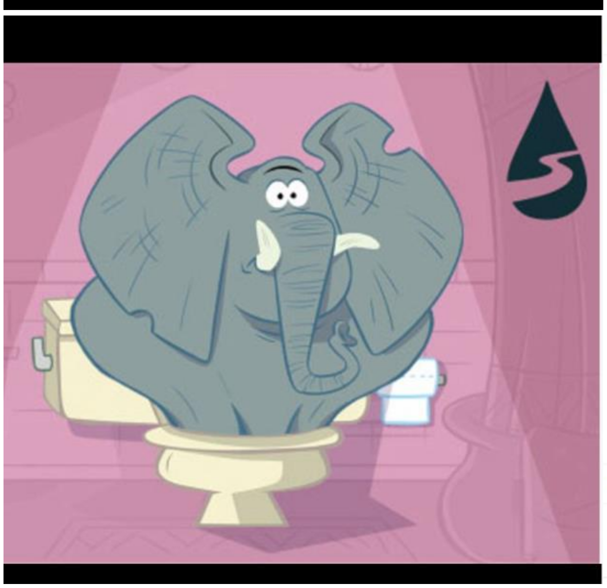
eric.alva77 Can I put a 500kg tungsten cube ?
43w 2 likes Reply

View replies (1)

matttammatttamm I'll throw whatever I damn well please into the toilet. I've been throwing the gravel I've harvested from the tunnel I'm digging under my house in there. It's easier than taking it to the dump. Maybe if you didn't charge for the dump I wouldn't have to flush it. Thanks.
43w 8 likes Reply

View insights
Boost reel

Liked by oneabq and 21 others
December 19, 2024



albuquerquewaterauthority

albuquerquewaterauthority It may be the cold and flu season, but it's never a good time to flush your facial tissues down the toilet. Toilet tissue is specially designed to break down in water; facial tissue is not (and that goes for those "flushable" wipes, too!). Flushing items other than toilet paper can clog pipes and can lead to costly sewer blockages.
42w

View insights
Boost post

Liked by oneabq and 5 others
December 30, 2024

Facebook Posts:

Boost

REMEMBER...fats, oils and grease should NEVER go down ...
January 22, 2024, 6:00 PM
ID: 724488086447044

Interactions

6 reactions | 0 comments | 1 share

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
511	512	7	--	0

Boost

It may be the cold and flu season, but it's never a good time ...
January 29, 2024, 12:00 PM
ID: 728451789384007

Interactions

3 reactions | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
184	189	3	--	0

Boost

Warmer days call for BBQs and dinner parties! But rememb...

April 9, 2024, 4:04 PM

ID: 767843085444877

Interactions

3 reactions | 0 comments | 1 share

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
148	164	4	--	0

Boost

REMEMBER! Keep trash (and ELEPHANTS) out of the toile...

April 20, 2024, 6:00 PM

ID: 771968255032360

Interactions

2 reactions | 0 comments | 2 shares

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
133	145	4	--	0

Boost

Did you know the Water Authority maintains a system of ab...
April 25, 2024, 4:00 PM
ID: 775999871295865

Interactions

4 reactions | 2 comments | 1 share

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
170	187	6	--	0

Boost

The school year ends soon, but you don't need a classroom t...
May 16, 2024, 9:00 PM
ID: 788631633366022

Interactions

4 reactions | 1 comment | 1 share

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
179	196	6	--	0

Boost

Cooking grease is one of the most common causes of sewer...
July 10, 2024, 6:00 PM
ID: 823528789876306

Interactions

11 reactions | 1 comment | 2 shares

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
308	334	8	--	0

Boost

Chucky the Elephant is back to remind everyone: no trash or...
July 23, 2024, 3:00 PM
ID: 830842229144962

Interactions

2 reactions | 0 comments | 1 share

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
151	164	2	1	0

Boost

Labor Day Weekend is just around the corner! If you're plan...
August 28, 2024, 8:15 AM
ID: 852811160281402

Interactions

5 reactions | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Reach	Impressions	Interactions	Link clicks	Follows
193	202	5	--	0

Boost

REMEMBER...fats, oils and grease should NEVER go down ...
October 22, 2024, 7:00 PM
ID: 891291583100026

Interactions

7 reactions | 1 comment | 1 share

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
346	230	8	--	0

Create ad

Post overview

November 1, 2024, 10:11 AM

ID: 897963595766158

Interactions

1 reaction | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
2	1	1	--	0

Boost

It may be the cold and flu season, but it's never a good time …

November 24, 2024, 6:00 PM

ID: 913631687532682

Interactions

7 reactions | 0 comments | 3 shares

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
317	230	8	--	0

Boost

It's finally here—Thanksgiving week! If you're preparing a la...

November 26, 2024, 6:00 PM

ID: 914941114068406

Interactions

111 reactions | 3 comments | 4 shares

Overview | Performance | Paid results | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
1,500	860	114	2	0

Boost

It's finally here—Thanksgiving week! If you're preparing a la...

November 27, 2024, 9:18 AM

ID: 17951736461893339

Interactions

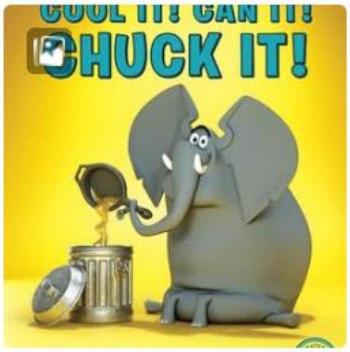
18 likes | 1 comment

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Watch time	Follows
290	238	22	35m 16s	0



Boost

REMEMBER...fats, oils and grease should NEVER go down ...
December 1, 2024, 10:36 PM
ID: 918397253722792

Interactions

3 reactions | 1 comment | 1 share

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
274	188	3	--	0

Boost

Tis the season for holiday food and delights! Whether you'r...
December 19, 2024, 10:00 AM
ID: 929792435916607

Interactions

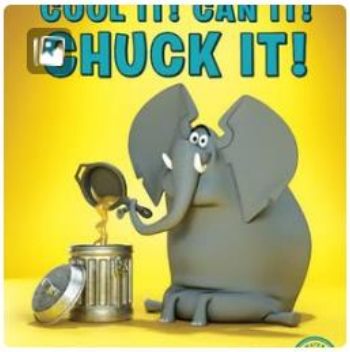
4 reactions | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
158	118	4	--	0



Boost

REMEMBER...fats, oils and grease should NEVER go down ...
December 22, 2024, 11:00 AM
ID: 931873639041820

Interactions

1 reaction | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
337	200	0	--	0

Boost

It may be the cold and flu season, but it's never a good time ...
December 30, 2024, 3:00 PM
ID: 937294601833057

Interactions

4 reactions | 0 comments | 0 shares

Overview | Performance | Feed preview

Performance

Overview

Views	Reach	Interactions	Link clicks	Follows
222	161	4	--	0

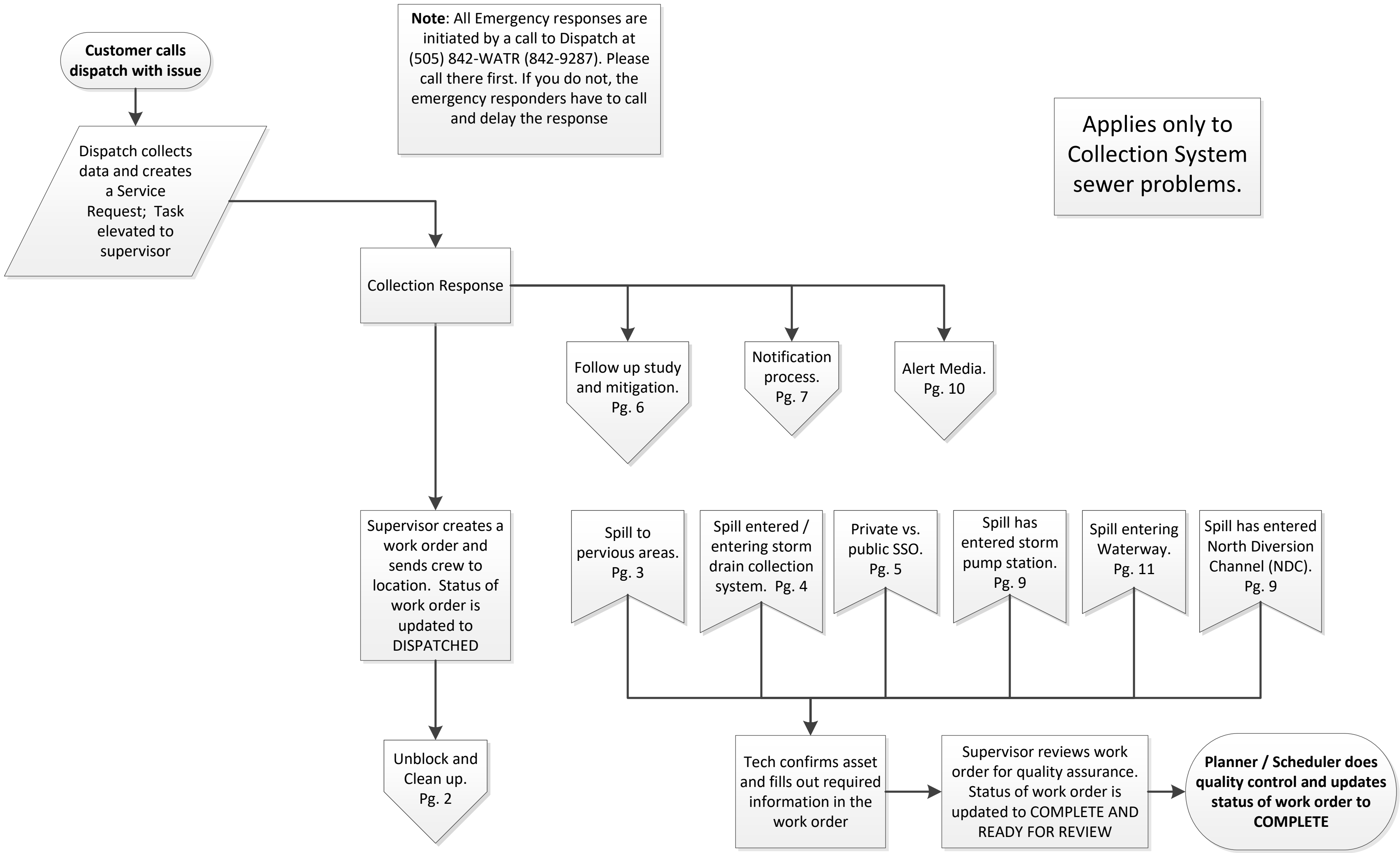
Appendix 4 Overflow Emergency Response Plan (OERP)

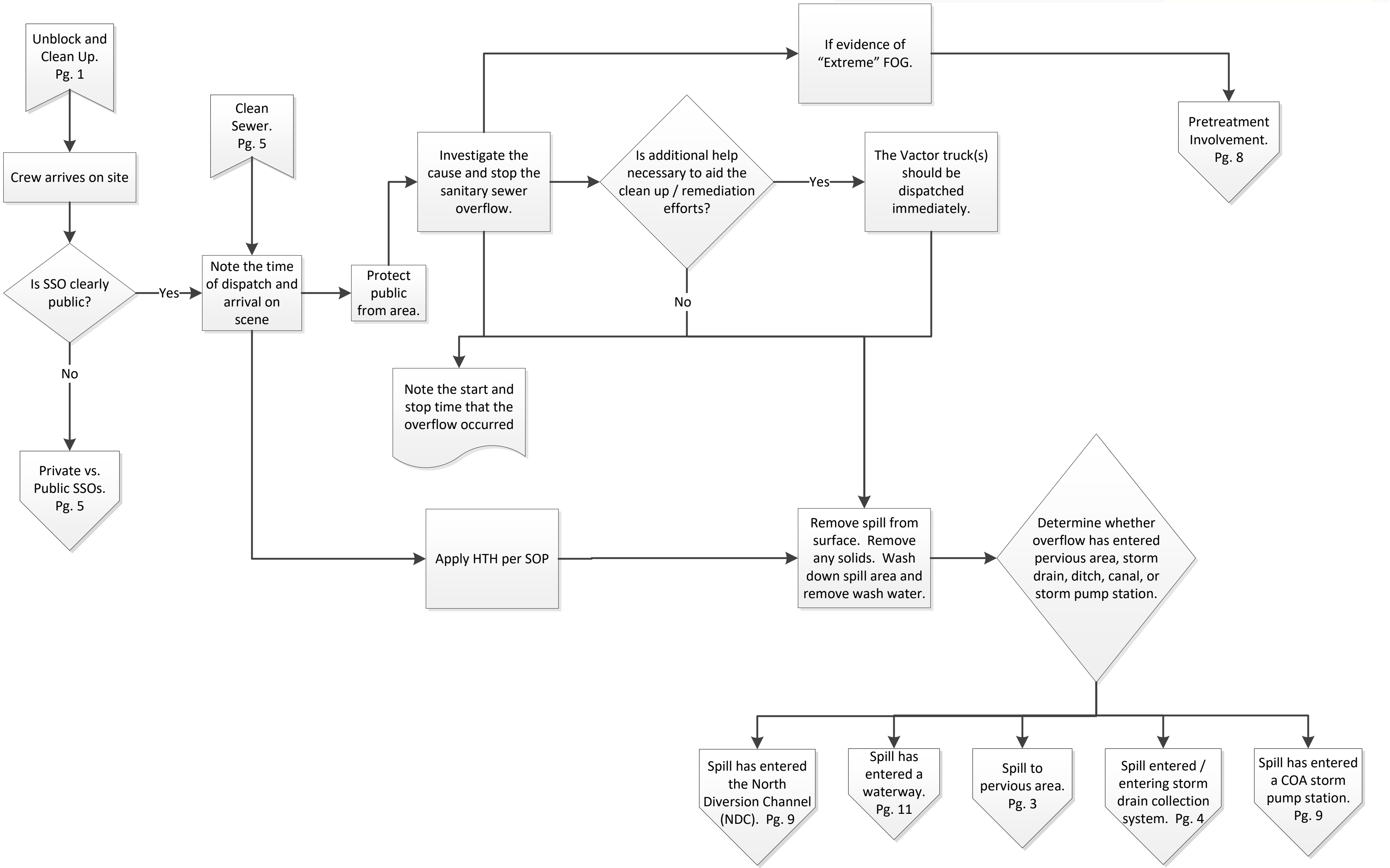
Note: The attached OERP is the version in effect at the end of the report time frame.

Overflow Emergency Response Plan

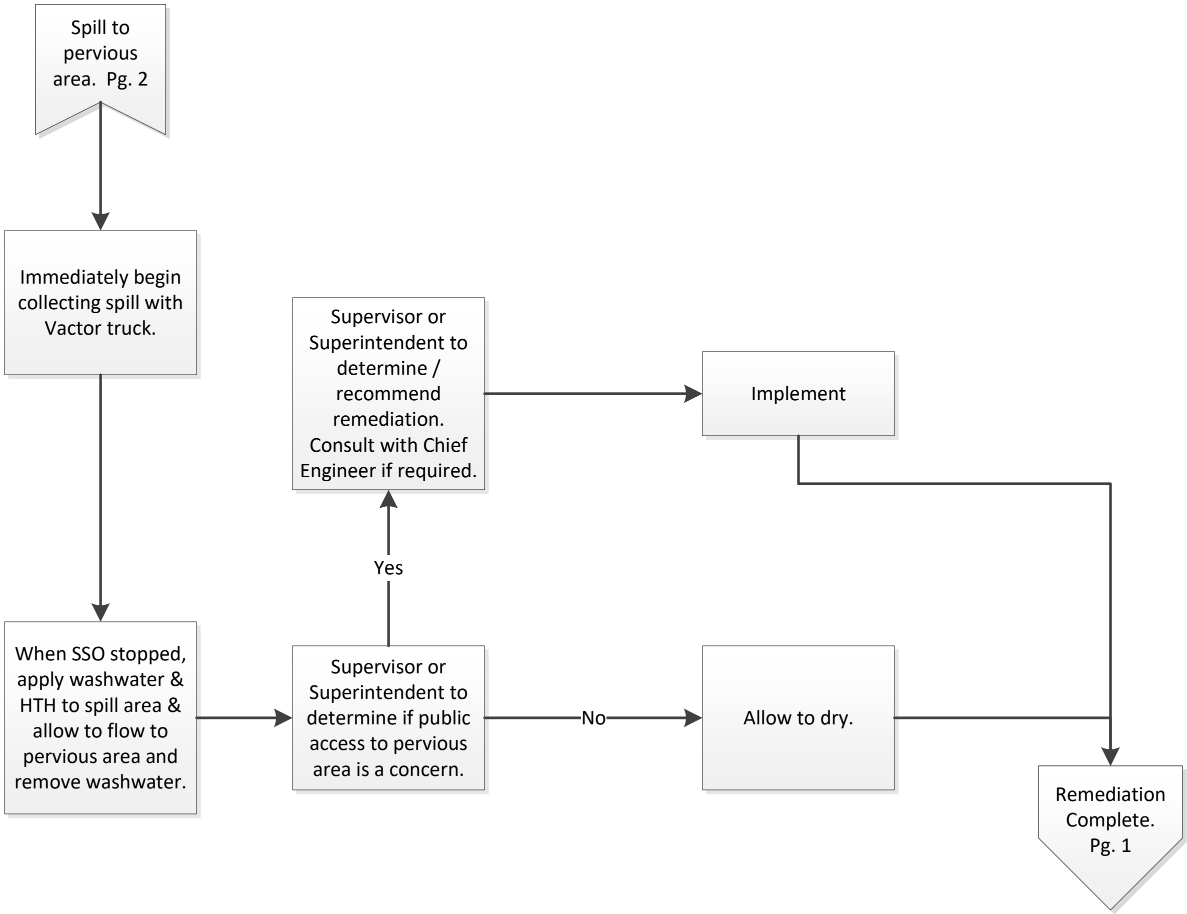
07-25-2024

Albuquerque Bernalillo County Water Utility Authority





Unblock and Clean Up. Pg. 1
Crew arrives on site
Is SSO clearly public?
Yes
No
Private vs. Public SSOs. Pg. 5
Clean Sewer. Pg. 5
Note the time of dispatch and arrival on scene
Protect public from area.
Investigate the cause and stop the sanitary sewer overflow.
If evidence of "Extreme" FOG.
Pretreatment Involvement. Pg. 8
Is additional help necessary to aid the clean up / remediation efforts?
Yes
No
The Vactor truck(s) should be dispatched immediately.
Note the start and stop time that the overflow occurred
Apply HTH per SOP
Remove spill from surface. Remove any solids. Wash down spill area and remove wash water.
Determine whether overflow has entered pervious area, storm drain, ditch, canal, or storm pump station.
Spill has entered the North Diversion Channel (NDC). Pg. 9
Spill has entered a waterway. Pg. 11
Spill to pervious area. Pg. 3
Spill entered / entering storm drain collection system. Pg. 4
Spill has entered a COA storm pump station. Pg. 9

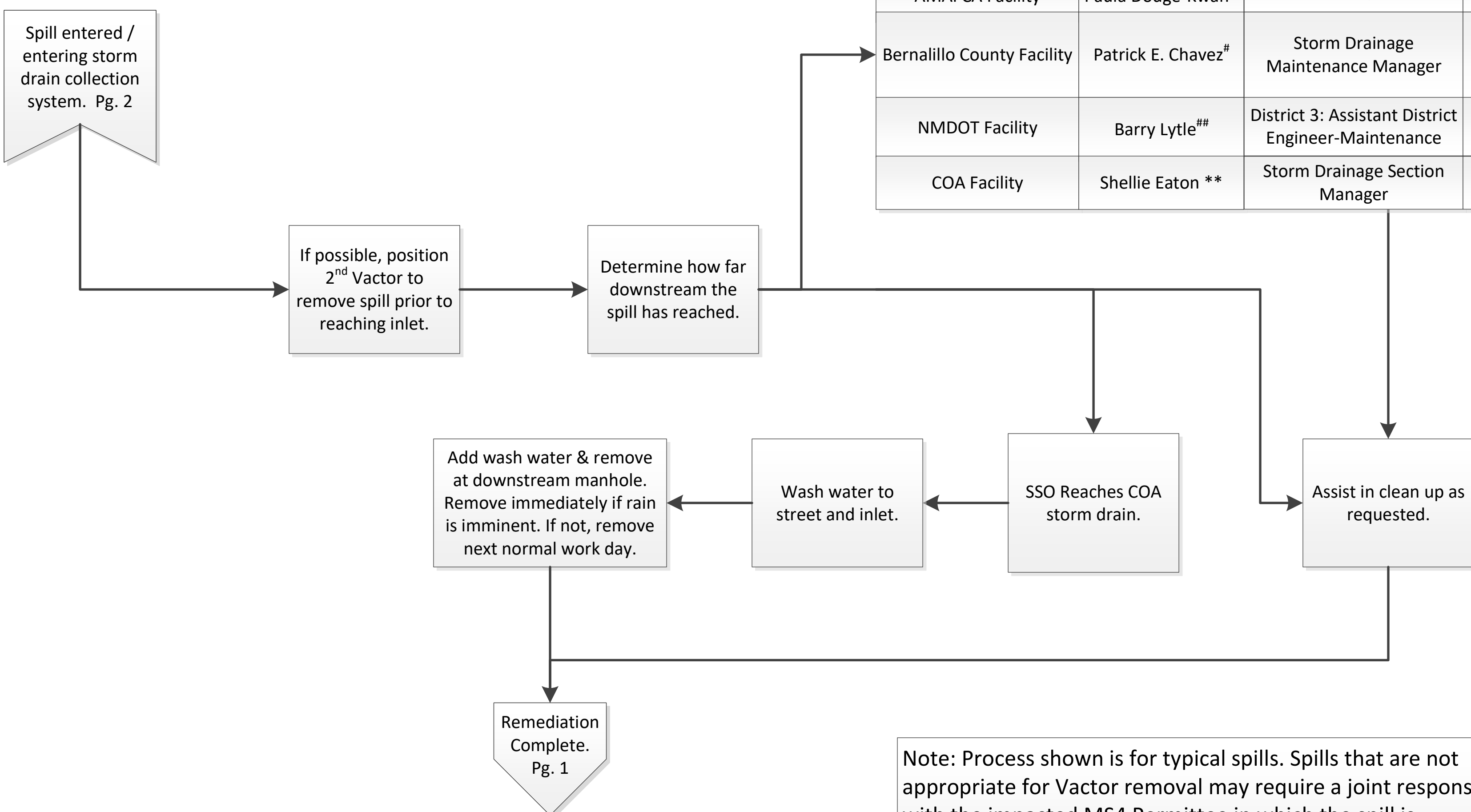

Spill to pervious area. Pg. 2
Immediately begin collecting spill with Vactor truck.
When SSO stopped, apply washwater & HTH to spill area & allow to flow to pervious area and remove washwater.
Supervisor or Superintendent to determine if public access to pervious area is a concern.
Yes
Supervisor or Superintendent to determine / recommend remediation. Consult with Chief Engineer if required.
Implement
No
Allow to dry.
Remediation Complete. Pg. 1

Overflow Emergency Response Plan

07-25-2024

Albuquerque Bernalillo County Water Utility Authority

SSO Reaches	Contact			
	Name	Position	Cell	Office
AMAFCA Facility	Paula Dodge-Kwan*	Director of Operations	(505) 301-1411	(505) 884-2215
Bernalillo County Facility	Patrick E. Chavez#	Storm Drainage Maintenance Manager	(505) 934-2704	(505) 848-1505
NMDOT Facility	Barry Lytle##	District 3: Assistant District Engineer-Maintenance	(505) 659-9155	N/A
COA Facility	Shellie Eaton **	Storm Drainage Section Manager	(505) 238-5865	(505) 768-2774



Note: Process shown is for typical spills. Spills that are not appropriate for Vactor removal may require a joint response with the impacted MS4 Permittee in which the spill is captured, treated, and determined appropriate for release.

*If Paula Dodge-Kwan is not immediately available, call:

Patrick J. Chavez (PJ): Strmwtr. Qual. Eng, Cell: (505) 362-7342
Sal Hernandez: Superintendent, Cell: (505) 366-8209

#In addition to Patrick E. Chavez, call:

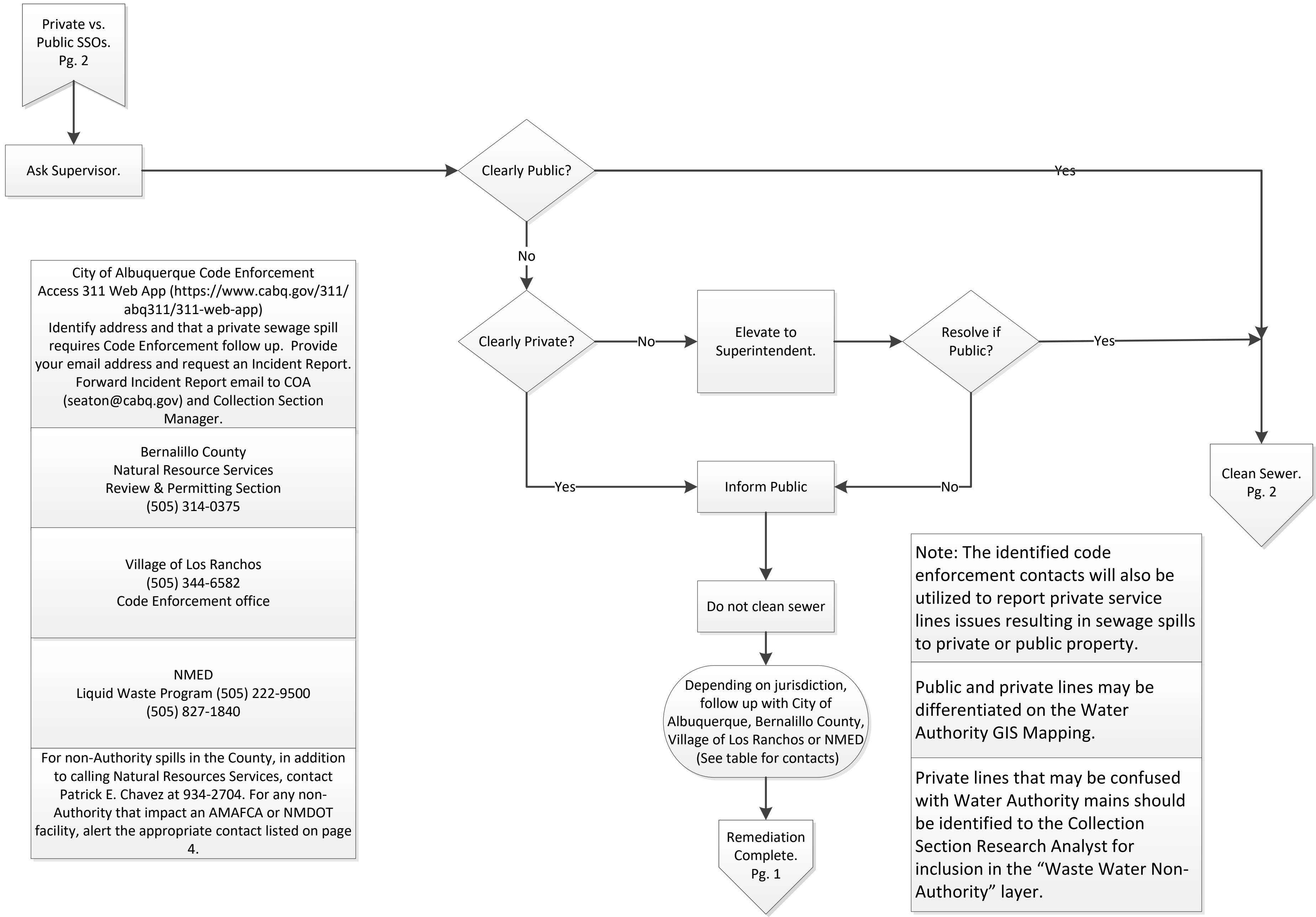
Kali Bronson: Stormwater Program Compliance Lead
(505) 537-3005

If Barry Lytle is not immediately available, call:

Jeremy Baca: D-3 Area Maint. Supv. (505) 250-6519
Todd Dunlap: D-3 Area Maint. Supv. (505) 321-5842
Dominic Gallegos: D-3 Area Maint. Supv. (505) 274-4404

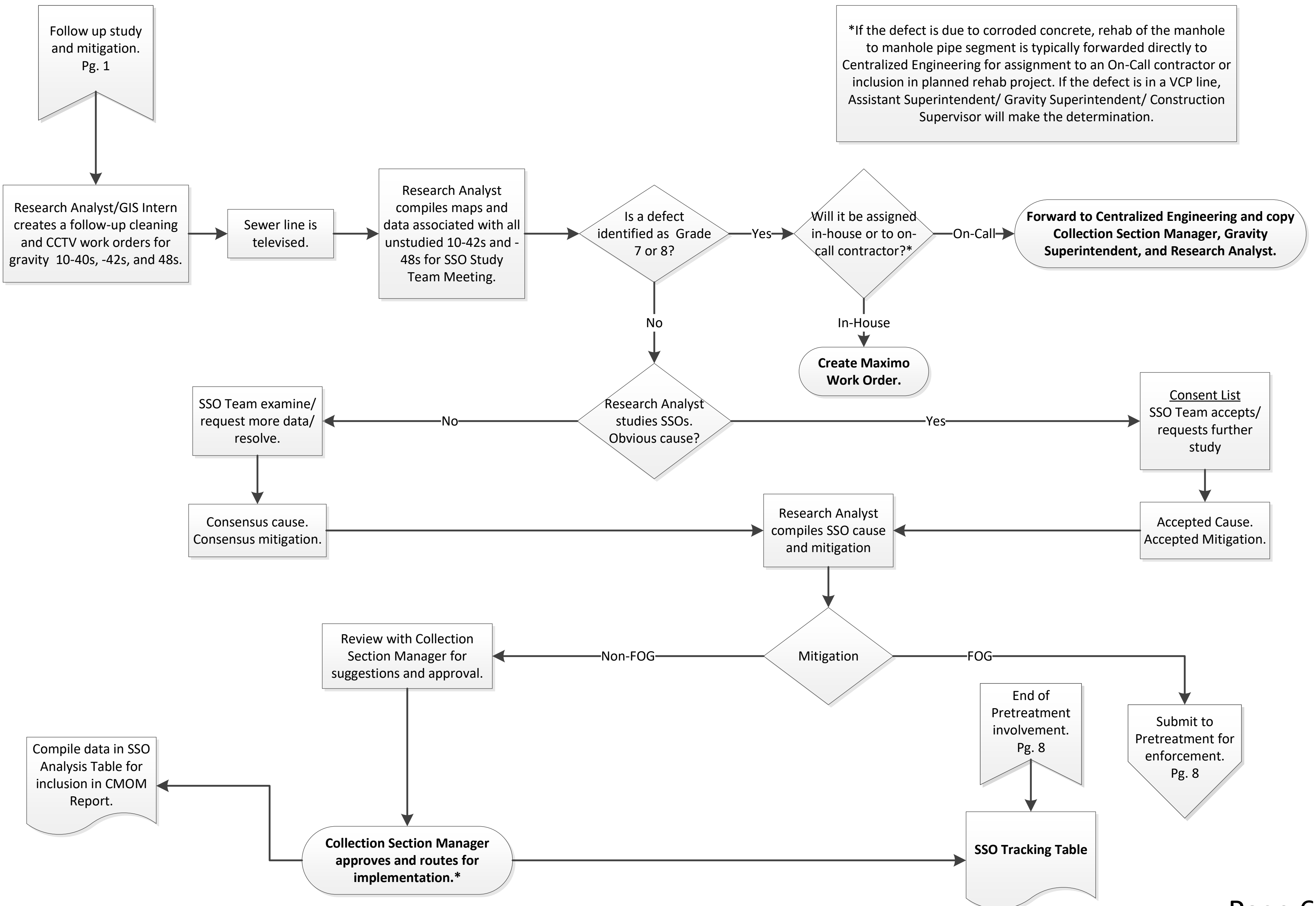
**If Shellie Eaton is not immediately available, call:

David Harrison: Engr. Div. Manager (505) 238-4158
Daniel Tapia: O&M Manager (505) 228-6874
Fred Montoya: O&M Supt (505) 366-9118

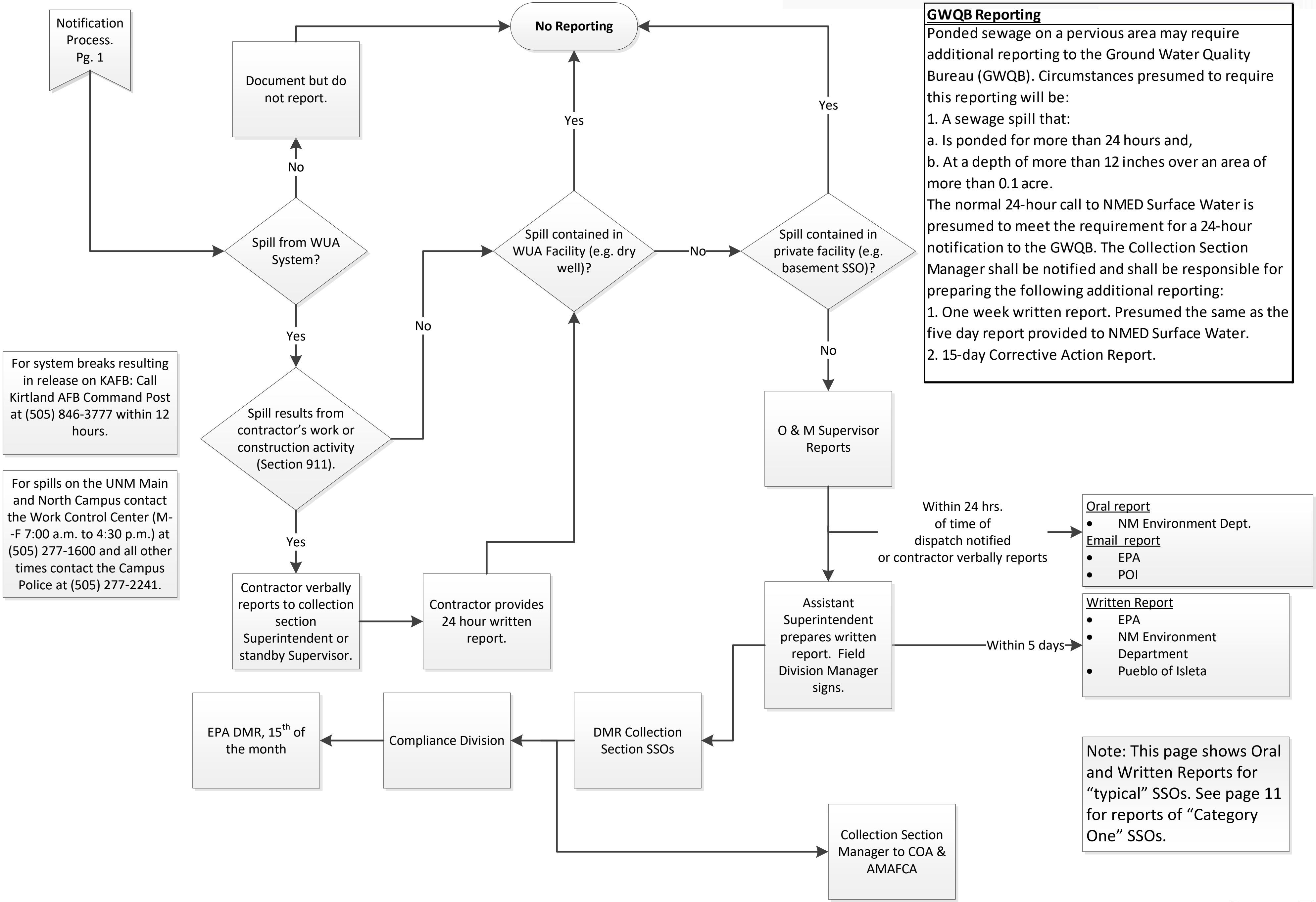


City of Albuquerque Code Enforcement Access 311 Web App (https://www.cabq.gov/311/abq311/311-web-app) Identify address and that a private sewage spill requires Code Enforcement follow up. Provide your email address and request an Incident Report. Forward Incident Report email to COA (seaton@cabq.gov) and Collection Section Manager.
Bernalillo County Natural Resource Services Review & Permitting Section (505) 314-0375
Village of Los Ranchos (505) 344-6582 Code Enforcement office
NMED Liquid Waste Program (505) 222-9500 (505) 827-1840
For non-Authority spills in the County, in addition to calling Natural Resources Services, contact Patrick E. Chavez at 934-2704. For any non-Authority that impact an AMAFCA or NMDOT facility, alert the appropriate contact listed on page 4.

Note: The identified code enforcement contacts will also be utilized to report private service lines issues resulting in sewage spills to private or public property.
Public and private lines may be differentiated on the Water Authority GIS Mapping.
Private lines that may be confused with Water Authority mains should be identified to the Collection Section Research Analyst for inclusion in the “Waste Water Non-Authority” layer.



Follow up study and mitigation. Pg. 1
*If the defect is due to corroded concrete, rehab of the manhole to manhole pipe segment is typically forwarded directly to Centralized Engineering for assignment to an On-Call contractor or inclusion in planned rehab project. If the defect is in a VCP line, Assistant Superintendent/ Gravity Superintendent/ Construction Supervisor will make the determination.
Research Analyst/GIS Intern creates a follow-up cleaning and CCTV work orders for gravity 10-40s, -42s, and 48s.
Sewer line is televised.
Research Analyst compiles maps and data associated with all unstudied 10-42s and -48s for SSO Study Team Meeting.
Is a defect identified as Grade 7 or 8?
Yes
Will it be assigned in-house or to on-call contractor?*
On-Call
Forward to Centralized Engineering and copy Collection Section Manager, Gravity Superintendent, and Research Analyst.
No
In-House
Create Maximo Work Order.
SSO Team examine/ request more data/ resolve.
No
Research Analyst studies SSOs. Obvious cause?
Yes
Consent List
SSO Team accepts/ requests further study
Consensus cause. Consensus mitigation.
Research Analyst compiles SSO cause and mitigation
Accepted Cause. Accepted Mitigation.
Review with Collection Section Manager for suggestions and approval.
Non-FOG
Mitigation
FOG
End of Pretreatment involvement. Pg. 8
Submit to Pretreatment for enforcement. Pg. 8
Compile data in SSO Analysis Table for inclusion in CMOM Report.
Collection Section Manager approves and routes for implementation.*
SSO Tracking Table



GWQB Reporting

Ponded sewage on a pervious area may require additional reporting to the Ground Water Quality Bureau (GWQB). Circumstances presumed to require this reporting will be:

1. A sewage spill that:

a. Is ponded for more than 24 hours and,

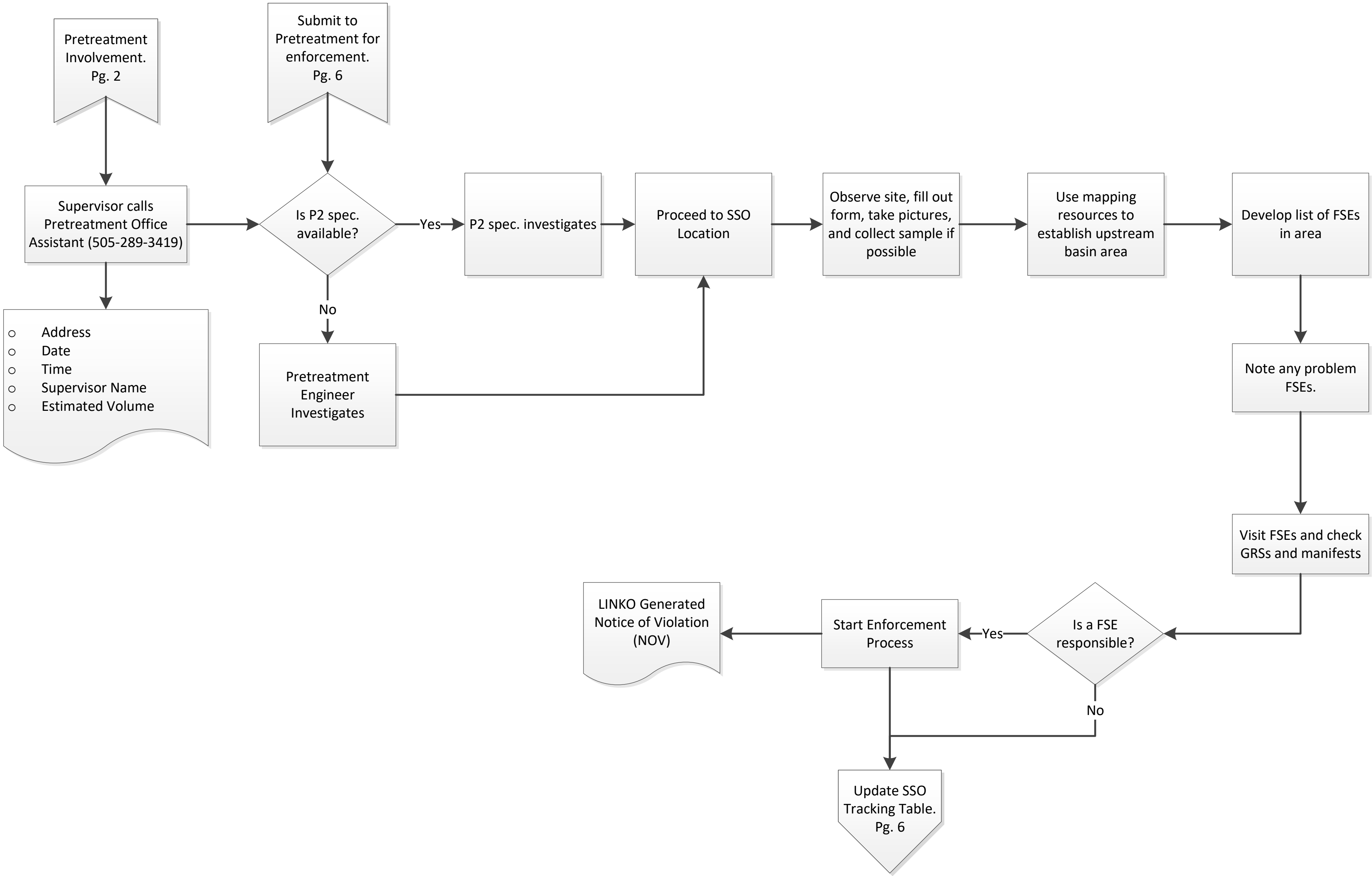
b. At a depth of more than 12 inches over an area of more than 0.1 acre.

The normal 24-hour call to NMED Surface Water is presumed to meet the requirement for a 24-hour notification to the GWQB. The Collection Section Manager shall be notified and shall be responsible for preparing the following additional reporting:

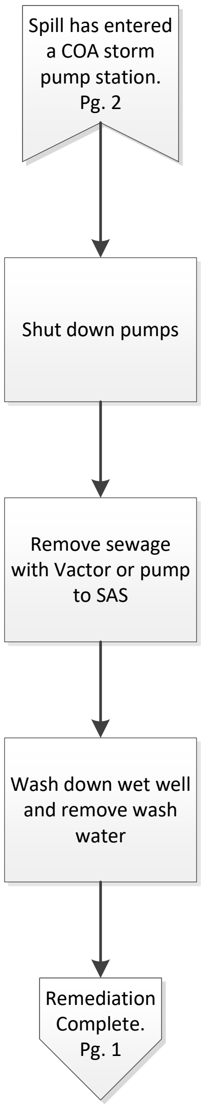
1. One week written report. Presumed the same as the five day report provided to NMED Surface Water.

2. 15-day Corrective Action Report.

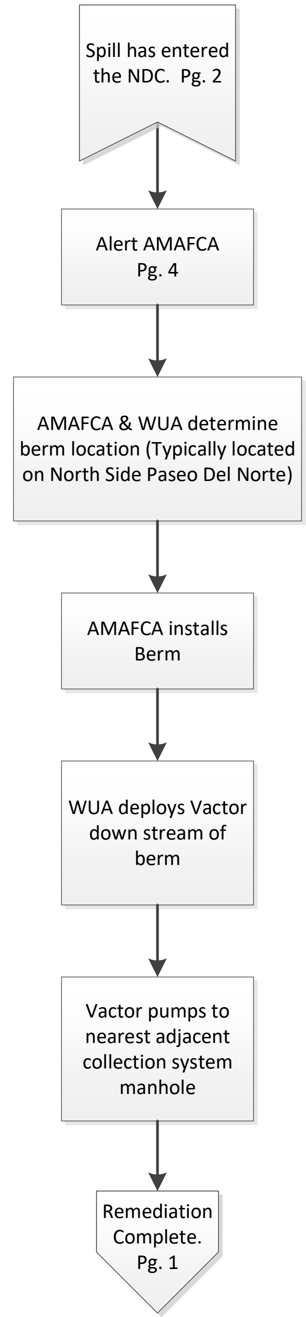
Note: This page shows Oral and Written Reports for "typical" SSOs. See page 11 for reports of "Category One" SSOs.

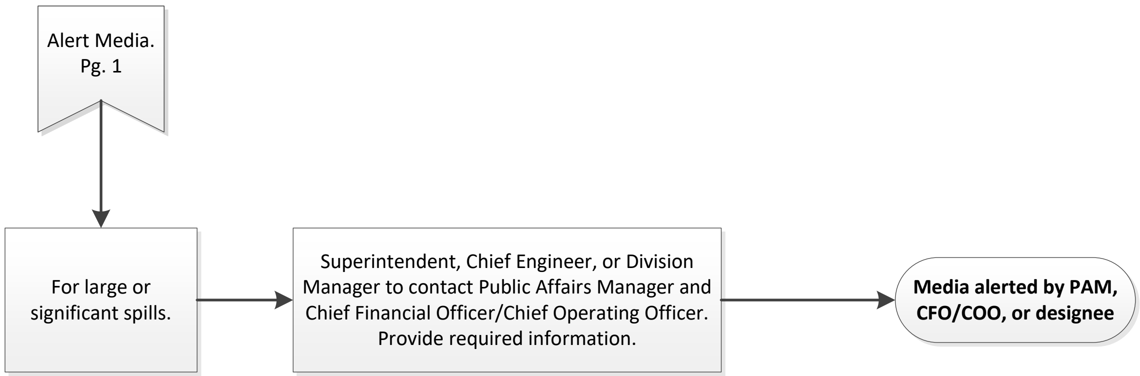


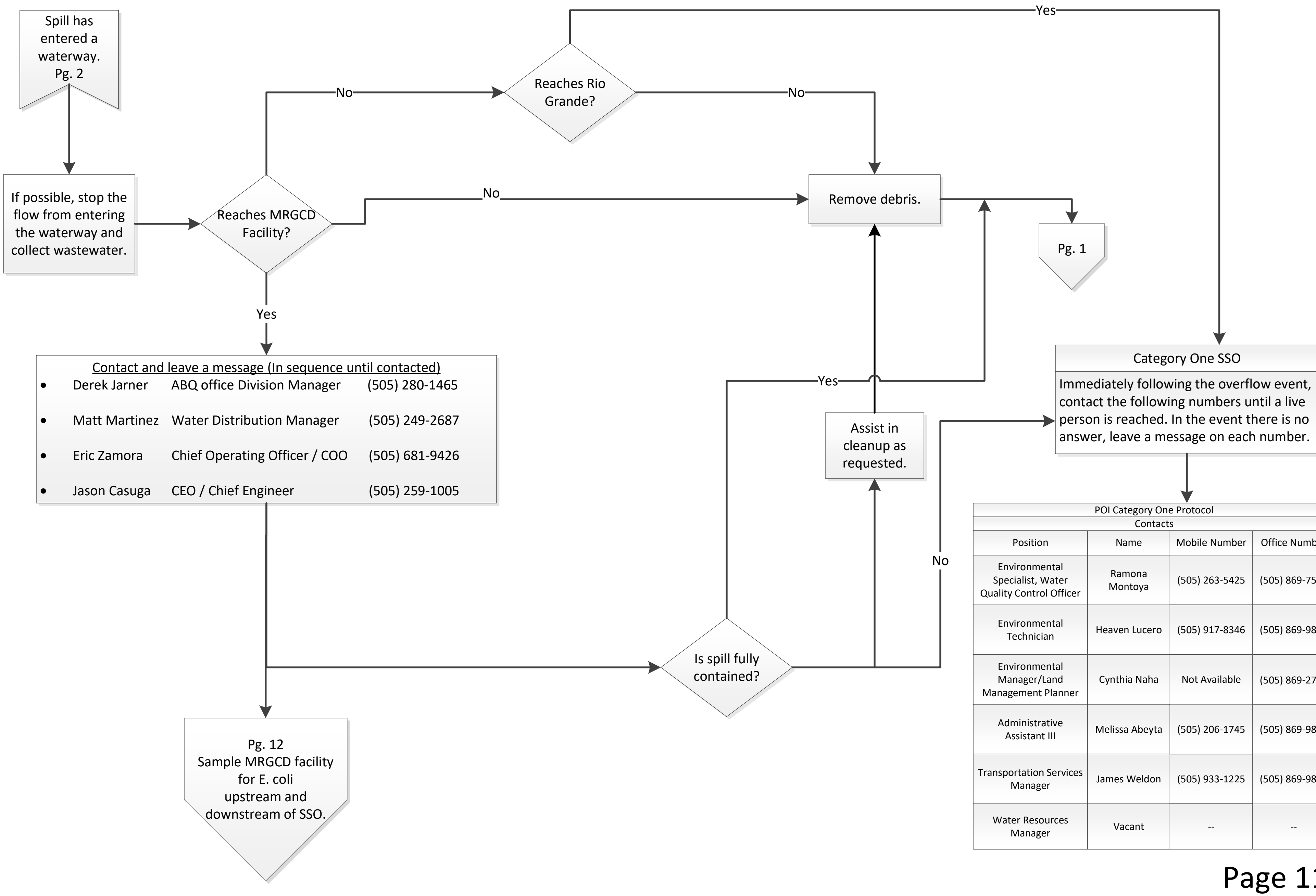
Pretreatment Involvement. Pg. 2
Submit to Pretreatment for enforcement. Pg. 6
Supervisor calls Pretreatment Office Assistant (505-289-3419)
Is P2 spec. available?
Yes
P2 spec. investigates
Proceed to SSO Location
Observe site, fill out form, take pictures, and collect sample if possible
Use mapping resources to establish upstream basin area
Develop list of FSEs in area
No
Address
Date
Time
Supervisor Name
Estimated Volume
Pretreatment Engineer Investigates
Note any problem FSEs.
Visit FSEs and check GRSs and manifests
LINKO Generated Notice of Violation (NOV)
Start Enforcement Process
Yes
Is a FSE responsible?
No
Update SSO Tracking Table. Pg. 6



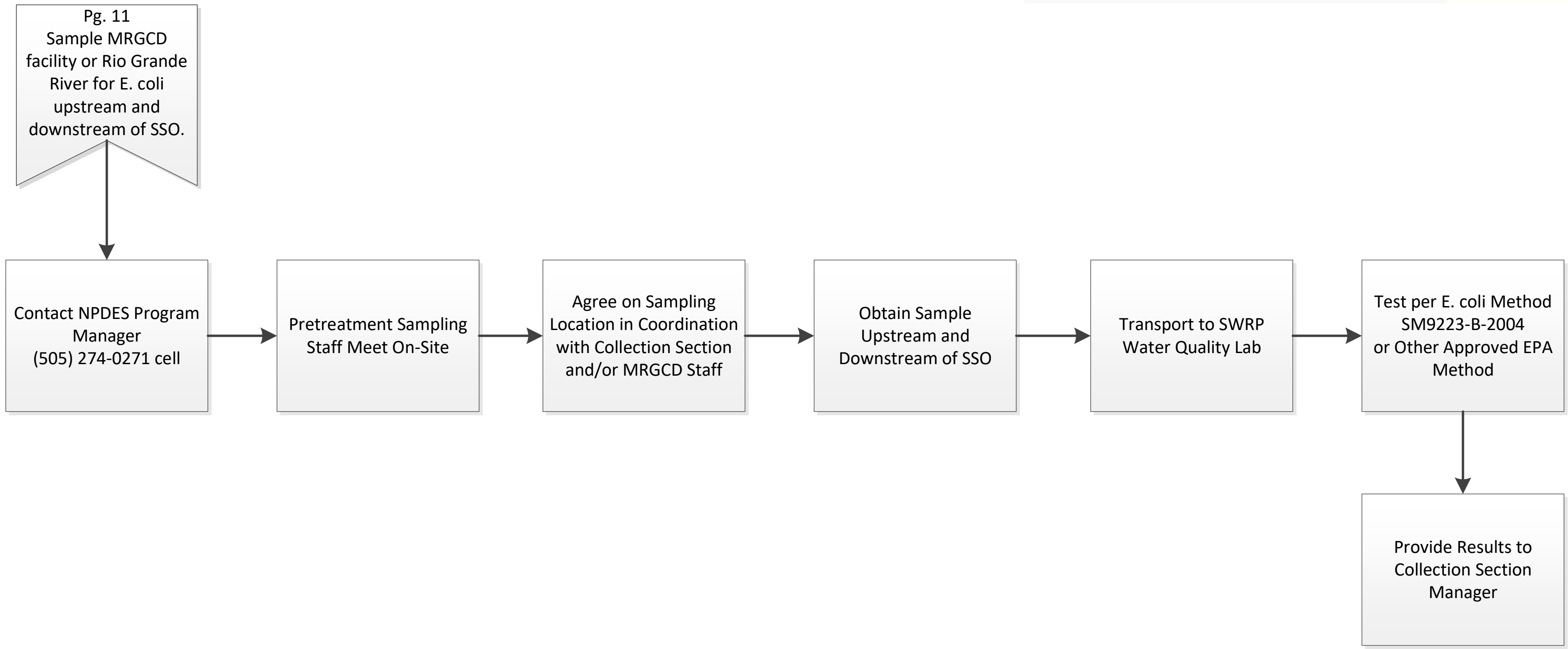
Note: Process shown is for typical spills. Some spills may require a joint response with the City of Albuquerque in which the spill is captured, treated, and determined appropriate for release.




Alert Media.
Pg. 1
For large or significant spills.
Superintendent, Chief Engineer, or Division Manager to contact Public Affairs Manager and Chief Financial Officer/Chief Operating Officer. Provide required information.
Media alerted by PAM, CFO/COO, or designee



POI Category One Protocol			
Contacts			
Position	Name	Mobile Number	Office Number
Environmental Specialist, Water Quality Control Officer	Ramona Montoya	(505) 263-5425	(505) 869-7565
Environmental Technician	Heaven Lucero	(505) 917-8346	(505) 869-9814
Environmental Manager/Land Management Planner	Cynthia Naha	Not Available	(505) 869-2710
Administrative Assistant III	Melissa Abeyta	(505) 206-1745	(505) 869-9817
Transportation Services Manager	James Weldon	(505) 933-1225	(505) 869-9818
Water Resources Manager	Vacant	--	--


Pg. 11
Sample MRGCD facility or Rio Grande River for E. coli upstream and downstream of SSO.
Contact NPDES Program Manager (505) 274-0271 cell
Pretreatment Sampling Staff Meet On-Site
Agree on Sampling Location in Coordination with Collection Section and/or MRGCD Staff
Obtain Sample Upstream and Downstream of SSO
Transport to SWRP Water Quality Lab
Test per E. coli Method SM9223-B-2004 or Other Approved EPA Method
Provide Results to Collection Section Manager

Appendix 5 Goal Summary – CY2024 Report

Goal Summary - CY2024 CMOM Report		
Goal	**Timing**	**Page # for Discussion**
CCTV all gravity pipes suffering a blockage. For all SSOs, determine a cause and mitigation and report in the next CMOM report.	Annually	6
FOGS and Enforcement Policies - Implementation	On-Going	12
Public advertising	On-Going	12
Tabulate the number of fliers distributed during FOGS inspections and blanketing neighborhoods where residential FOGS caused SSO occur.	On-Going Goal Report Annually	5
CCTV a portion of system	Ten Year goal. Report annually.	14
Clean a portion of the system	Ten Year goal. Report annually.	15
Monitor a temporary goal of cleaning all gravity small diameter lines every fifteen years.	CY2025	15
Update frequency of Short Interval cleaning in accordance with system performance and risk factors, maintenance history, and the latest maintenance findings.	On-Going	15
Force main inspection program	Annually	17
Update OERP	As required	18
SSOs: Take steps to decrease and mitigate	On-Going	19
Compile list of potential solids dischargers. Evaluate and Develop BMPs for one category each year.	On-Going	12
Evaluate the concrete manufacturers in CY2025 and develop BMP fliers in CY2026.	CY2025 - CY2026	12
Upgrade failed LS20 force mains from station to Atrisco Riverside Drain. Complete design, bid, award, and initiate construction.	CY2025	17
Complete construction to upgrade of failed LS20 force mains from station to Atrisco Riverside Drain.	CY2026	17
Inspect one LS20 force main under Atrisco Riverside Drain.	CY2025	17
Award contract for on-call fence work to improve control of construction site related to spill.	CY2025	17
Award contract for LS24 valving upgrade. During project CCTV short segment of force mains.	CY2025	16
Satellite System Contracts: Review agreements with satellite communities and determine necessary steps to effectively implement suggestions in Self-Assessment document.	CY2025	18

Appendix 6 Practice Response to SSO Reaching NDC

Outlook

Practice Response to SSO Reaching NDC

From Holstad, Mark S. <mholstad@abcwua.org>
Date Wed 2/5/2025 7:45 AM
To Shuryn, Danielle <dshuryn@abcwua.org>; Ramona Montoya <Ramona.Montoya@Isletapueblo.com>; Heaven Lucero <Heaven.Lucero@IsletaPueblo.com>; Paula Dodge-Kwan <pdodgekwan@amafca.org>; Patrick Chavez (pchavez@amafca.org) <pchavez@amafca.org>; SHernandez@amafca.org <SHernandez@amafca.org>; Warren, H <hwarren@abcwua.org>
Cc Gabaldon, Anthony J. <ajgabaldon@abcwua.org>; Martinez, Arthur C. <acmartinez@abcwua.org>; Baca, Angelo R. <arbaca@abcwua.org>

4 attachments (4 MB)
Sign-In Sheet _ Practice Response to SSO_2024-12-12.pdf; OERP_07-25-2024_Final.pdf; F SSO Notification_03-06-2023.pdf; 108.JPG;

On December 12, 2024, starting at ~1:50 p.m., a field meeting was held to simulate a sanitary sewer overflow (SSO) reaching the North Diversion Channel (NDC). The meeting was at the northeast corner of north frontage road for Paseo del Norte and the NDC. This is preferred location to block an SSO and pump it back into the sewer system and prevent the SSO from reaching the Rio Grande.

Present were (attached is the sign-in sheet):
- Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA): Paula Dodge-Kwan; Sal Hernandez; PJ Chavez; Esqui Padilla
- Pueblo of Isleta (POI): Heaven Lucero; Erwin Garcia; Joe Jojola; Merrill Yazzie
- Albuquerque Bernalillo County Water Utility Authority (Water Authority): Mark Holstad; H Warren; Angelo Baca; Anthony Gabaldon; Danielle Shuryn; Anthony Contreras; Derrick Baca; Matthew Montano; Juan Archuleta; Arthur C. (Chris) Martinez; Zack Layne; Anthony Keryte; Ricardo Vasquez; Vernon Velarde

Mark provided copies (attached) of the following:
- The current Overflow Emergency Response Plan (OERP).
- A picture of an SSO on December 12, 2017, in which AMAFCA and the Water Authority worked together to block and remove a spill that reached the Embudo Channel.
- The SSO Notification form that the Water Authority uses for the 24-hour notifications, and immediately if a Category One SSO.

The simulation consisted of the Water Authority and AMAFCA discussing how they would follow the OERP and respond to an SSO reaching the NDC. Mark started with p. 1 of the OERP with Dispatch receiving a call of an SSO and alerting the appropriate Collection Section supervisor. Angelo discussed to process and goals for a response. Mark discussed the steps on pages 2, 4, and 9. Page 4 identifies the AMAFCA staff for the Water Authority to call. P. 9 identifies the steps and responsibilities for blocking and removing the SSO. Sal discussed that AMAFCA has soil stockpiles prepositioned at strategic locations with ramp access and that the AMAFCA crew will place a soil berm in the NDC and block the SSO. The Water Authority will drive a Vactor with a high-lift pump-off and remove the SSO using a vacuum chute and then pump from the debris body to an adjoining sewer manhole.

For the simulation, the Water Authority had positioned a high-lift Vactor (with a debris body full of water) in the bottom of the NDC and had placed lay-flat hose from the Vactor to manhole. The Vactor pumped the water to the manhole.

Mark discussed the process of making Permit required notifications, particularly to the POI. (Refer to the SSO Notification form and p. 11 of the OERP.) While the Permit does not require notifying the POI of a spill that is prevented from reaching the Rio Grande or an MRCGD facility, the Water Authority will call and alert the POI of a spill that reached the NDC. Priority of calls will be given to those that block and remove the SSO, i.e., the first calls will be to AMAFCA and Field Division staff.

The was general discussion. It was noted that some POI contacts have changed, and the latest information will be provided to the Water Authority to update the OERP and the SSO Notification form. (Note: The POI did provide contact information to Danielle Shuryn. The SSO Notification form has been updated. The OERP will be updated in conjunction with other recently received edits.)

WATER AUTHORITY

Mark S. Holstad, PE
Chief Engineer / Collection System Manager
Field Division
Albuquerque Bernalillo County Water Utility Authority
PO Box 568 | Albuquerque NM | 87103
505-289-3450 (office) | 505-259-3819 (cell)
www.abcwua.org

Sign-In Sheet - Practice Response to SSO

Name	Thursday 12/12/2024 1:30pm -3:30 pm	Signature
Holstad, Mark S.	12/12/2024	
Paula Dodge-Kwan	12/12/2024	
Warren, H	12/12/2024	
Kevin Troutman	12/12/2024	
Baca, Angelo R.	12/12/2024	
Patrick Chavez	12/12/2024	
GabaldonAnthony J.	12/12/2024	AG
Shuryn, Danielle	12/12/2024	
Sal Hernandez	12/12/2024	
Opitional Ateendee		
Contreras Anthony R.	12/12/2024	
Baca,Derrick	12/12/2024	
Ortega, Henry W.	12/12/2024	
Montano, Matthew O.	12/12/2024	
Archuleta, Juan F.	12/12/2024	
Martinez, Arthur C.	12/12/2024	
Peacock, Travis A.	12/12/2024	
Ramona, Montoya	12/12/2024	
Heaven, Lucero	12/12/2024	Heaven [illegible]
Aguilar, Kyle	12/12/2024	
Layne, Zack	12/12/2024	
Anthony Keryte	12/12/2024	
Ricardo Vasquez	12/12/2024	
Vernon Velarde	12/12/2024	
[illegible]	12/12/2024	
Joe [illegible]	12/12/2024	

Erwin [illegible]

Erwin Garcia

Sign-In Sheet - Practice Response to SSO

Name	Thursday 12/12/2024 1:30pm -3:30 pm	Signature
PJ Chavez	12/12/2024	[illegible]
Paula Dodge Kwan	12/12/2024	Paula Dodge Kwan
Esqui Padilla	12/12/2024	[illegible]
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