Annual MOM Progress Report

2010

Submitted to EPA on March 1, 2011

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

D. Wayne Loveday

March 1, 2011

Date





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Section 1: Introduction

KUB's Management, Operations, and Maintenance (MOM) programs continue to make significant improvements in the wastewater collection system resulting in both reduced overflow frequencies and reduced volumes. The significant improvements in our MOM programs include increased asset inspections, more frequent gravity main cleaning, system storage for better wet-weather overflow control, improved process controls at the wastewater treatment plants (WWTPs), and rehabilitation of the approximately 1300 miles of collection system pipes.

Sanitary Sewer Overflows

KUB's continued focus on MOM programs and system rehabilitation has produced significant reductions in the number of sanitary sewer overflows (SSOs) that occurred before KUB implemented its PACE 10 Program. [PACE 10 is KUB's accelerated 10-year, \$530 million wastewater improvement program to aggressively attack the problem of sewer overflows. "PACE" stands for "Partners Acting for a Cleaner Environment."] As a result of PACE 10, KUB reduced SSOs by over 65 percent since 2003. Figure 1 illustrates this significant downward trend and also shows that significant rain events are having less of an impact on our wastewater system, although rainfall totals and frequency still influence the occurrence of wet-weather SSOs. Periods of greater and extended rainfall, such as the period from 2008–2010, create longer lasting effects on infiltration and thus higher flows in the collection system. These conditions make the system more susceptible to overflows during larger rain events.

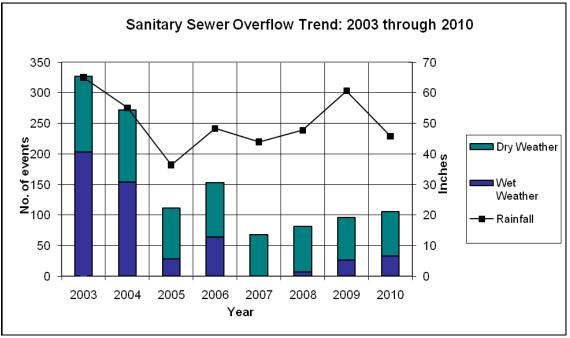


Figure 1. Sanitary Sewer Overflow Trend: 2003 through 2010

Note: KUB's highest SSO numbers were in 2003, when rainfall reached a record high. As KUB completed early PACE 10 projects, SSOs began to trend down. (The 2006 spike was due to a single extraordinary rainfall event.) Rainfall in 2009 approached the 2003 high, and although SSOs went up, they were still significantly lower than in a similar rainfall year before PACE 10.

KUB experienced 33 wet weather overflows in 2010 versus over 200 in 2003. The slightly increasing trend in wet-weather overflows seen in Figure 1 in both 2009 and 2010 can be attributed to the influence of total rainfall from 2008 – 2010, which was higher than the three years prior to this period. Continued wet weather creates saturated ground conditions, which is also known as high antecedent soil moisture conditions. Figure 2 shows how this situation increases the infiltration of stormwater or groundwater into the collection system where rehabilitation has yet to be completed.

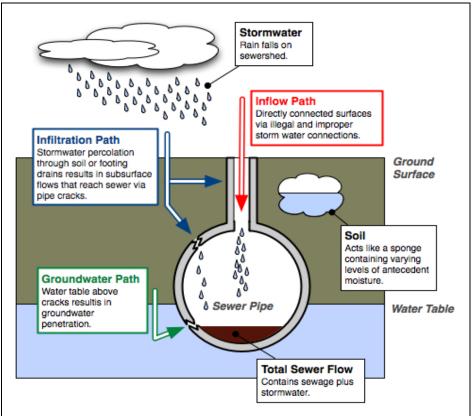


Figure 2. Antecedent Moisture Condition—Courtesy of i3D Technologies Inc.

In January 2010 the soil was saturated due to the amount of rainfall received (12.02 inches) within the 60 days prior (See Table 1). That soil condition combined with a large rain event (2.4 inches) beginning on January 24, 2010, produced 12 overflows. There was another significant rain event on November 29, 2010, where the area received 3.52 inches of rain within a five-day period and 11 inches in the 60 days prior that resulted in nine wetweather-related overflows. Those two rain events accounted for 64 percent of the wet weather events reported in 2010.

Improvements already made in KUB's collection system have lessened the effects of rainfall and antecedent moisture. A rain event in December 2004 similar to the two events mentioned previously produced 45 SSO events and secondary diversion volumes of over 100 million gallon (MG). It is notable that similar rainfall with high antecedent soil moisture conditions in 2010 produced a much smaller number of events and a smaller secondary diversion volume. Thanks to completed improvement projects, including construction of

KUB's four wet-weather wastewater storage tanks, those rainfall events produced only a small fraction of the number of wet weather SSOs compared to similar conditions before implementation of PACE 10.

Event Period	A	mount	of Rainf	all (inche	es)	Wet Weather	Secondary Diversion
	1 Day	3 Day	5 Day 30 Day 60 Day		SSOs	Volume (MG)	
Dec 6 -10, 2004	2.07	2.58	3.99	9.87	15.53	45	105.14
Jan 24 - 27, 2010	2.39	2.48	4.18	5.24	12.02	12	40.45
Nov 29 - Dec 5, 2010	2.35	2.97	3.52	5.91	10.94	9	35.45
Dec 31 - Jan 1, 2011	2.4	2.52	2.52	4.16	10.9	4	12.62

Table 1. Wet Weather Event Comparisons

KUB's wastewater storage facilities at Lower First Creek, Upper First Creek, Upper Third Creek, and Walker Springs operated a combined total of 41 times in 2010, containing a total of 82.3 million gallons of wastewater. Those tanks were designed and sited to address chronic overflows at Fourth and Hoitt, 5000 Western Avenue, 4813 N Broadway, and Walker Springs. The tanks help KUB to prevent spikes in flow that exceed the hydraulic capacity of the collection system and meet requirements to address sewer overflows and protect our environment.

KUB will complete a fifth storage facility at Bernard Avenue in May 2011. Construction of a sixth storage facility located at the Kuwahee Wastewater Treatment Plant began in December 2009 with anticipated completion in June 2011. These tanks will add another 12 million gallons of storage that will help to further reduce wet-weather SSOs and reduce peak flows at the wastewater treatment plants that occur during heavy rainfall.

KUB maintains continued focus on its MOM programs and system rehabilitation to also reduce dry-weather overflows. Blockages were a leading cause of dry-weather overflows in 2010, accounting for 33 of the 73 overflows that occurred; however, this category is down nine events or 21 percent from 2009. KUB continues to focus on reducing blockage-related overflows especially through the efforts of the Blockage Abatement (BA) and Grease Control programs. Grease and roots continue to be the leading causes, or major contributing factors, in blockage-related overflows, although the totals continue to decrease.

MOM Programs

Grease Control Program

KUB maintains aggressive efforts to prevent grease discharges to the collection system from food service facilities (FSFs). Two schools and 32 FSFs installed new equipment or upgraded their external grease traps in 2010. Those efforts and investments by our customers continue to help prevent grease buildup in our system. KUB completed inspections of 1,225 FSFs to determine their potential grease risk prior to issuing permits. Only four percent of the FSFs were rated as high risk or unacceptable for the 2011 permitting year.

KUB also continues to educate residential customers to prevent grease-related overflows. In areas where residential grease may be entering the system, KUB conducts additional televised inspections. The inspections help better identify the need for increased cleaning and public awareness efforts, such as Can the Grease (CTG). KUB placed additional emphasis on distributing educational information on proper grease disposal this past year. Program personnel participated in customer education events hosted by community organizations and promoted CTG in various customer communications and the KUB Web site. Customers receive educational materials explaining the proper means of grease disposal. The CTG cans are still given away during limited special events such as home owner meetings, tenant meetings at apartment complexes, and promotional events. In 2011, KUB is planning to distribute spatulas with the Can the Grease logo to customers near grease-related overflows as a new promotional and educational effort.

Gravity Sewer Preventive Maintenance

Another effort that continues to reduce dry-weather SSOs is our Blockage Abatement (BA) Program, a routine cleaning and inspection program to remove roots and debris from sewer mains.

The BA Program uses increased frequency of cleaning to prevent overflows in areas with previous problems until KUB schedules projects for more permanent fixes. The footage of mains on BA fluctuates each year as KUB completes scheduled fixes or identifies new areas where more cleaning is needed pending future projects.

In 2010, BA crews cleaned 1,061,261 ft (201 miles) and televised 298,520 ft (56 miles) of gravity sewers in our system.

Continuing Sewer System Assessment Program (CSSAP)

In addition to the BA footage, KUB crews and PACE 10 contractors proactively cleaned and televised 380,663 ft (72 miles) in 2010. KUB uses data from televised inspections to assess the condition of the assets for additional maintenance and/or system rehabilitation efforts. Under PACE 10, contractors also smoke-tested 380,663 ft (72 miles) of sewers and inspected 1,535 manholes in 2010. KUB also gathers additional information from its other MOM program efforts. This assessment information is collected as part of the Continuing Sewer System Assessment Program (CSSAP) and is used to feed the Infrastructure Rehabilitation Program (IRP) decision-making process. We refer to this as our basin characterization process. As all the data is collected for a sub-basin or minibasin, a design engineer and a basin engineer evaluate it. Lines are then recommended for rehabilitation, replacement, or continued maintenance and inspection based on design criteria and engineering judgment.

Through the collection of multiple sources of data, such as as-built drawings, field inspections, and asset management information, KUB created a database to help manage the continual evaluation of each sewer pump station and the connected force mains. The database tracks general information about each pump station and actual operational data, such as flow rate and other information from the Supervisory Control and Data Acquisition system (SCADA).

KUB uses the database as the primary tool to assess station condition and ensure that the pump stations are a reliable means of transporting sewage during dry- and wet-weather conditions.

Infrastructure Rehabilitation Program (IRP)

In 2010, KUB had \$47.6 million in rehabilitation and replacement projects under contract, including two additional storage tanks, four pump stations, and over 18.4 miles of pipe in the collection system with 1,449 manholes rehabilitated or replaced. KUB completed 23 projects in 2010 and initiated eight pump station projects that involved rehabilitation or significant upgrades to improve system collection performance.

Private Lateral Program

KUB also inspects customer-owned private laterals, notifies customers with defective laterals or prohibited connections, and enforces repairs or replacements as required by our Private Lateral Program (PLP)*. KUB tracks information about the PLP in a Lotus Notes information management system (IMS) called the Private Lateral Tracker. A total of 326 laterals were repaired or replaced in 2010.

In 2010, KUB implemented an Incentive Program to help property owners proactively replace their defective sewer laterals and remove prohibited connections if they qualified for assistance under the Supplemental Environmental Project (SEP). This program is offered to property owners in areas where sewer main rehabilitation has not occurred and will not occur before the completion date of the SEP in 2013. These areas have also been determined to have significant inflow or infiltration during heavy rainfall and older sewer pipe (system age is greater than 40 years) consisting of a large amount of concrete, clay, cast iron, or Orangeburg pipe. A total of 2915 customers were mailed incentive letters in five separate areas, which resulted in 144 grants or repaired laterals last year.

<u>Summary</u>

KUB continues to complete numerous improvement projects and maintain the ongoing MOM programs to further reduce wet and dry weather related overflows. This progress report shows how KUB will continue to use and refine its MOM programs in the future to better maintain our system, serve our customers, and protect our environment. The following sections provide more specific information on the MOM activities already highlighted over the course of this past year.

KUB continues to implement, manage, and refine the Other MOM Programs listed in the Consent Decree Appendix A. Where applicable, any of those programs with changes or significant accomplishments are summarized in Section 7.

*This project was undertaken in conjunction with the settlement of a civil enforcement action taken by the United States for violations of the Clean Water Act.

Section 2: Grease Control Program

KUB's Grease Control Program consists of three primary elements:

- Routine inspection of food service facilities (FSFs)
 - Existing FSFs
 - New/remodeled FSFs
- Grease-related SSO Response
- Residential Grease Control Program.

This MOM Progress Report section and the summary tables included in Appendix A provide an overview of the program's activities in 2010. There were only 12 grease related SSOs in 2010 as a result of the continued focus on Grease Control Program activities. The summary tables provide more detailed information pertaining to grease-related SSOs, interceptor requirements for FSFs, the number and results of inspections, enforcement actions, and other program activities. All FSFs in the KUB service area are on a scheduled rotation for inspection at least annually.

Inspections of Food Service Facilities

KUB conducted 1,225 total inspections of FSFs in 2010. That included 40 initial inspections, 137 follow-up inspections, and 1,048 annual inspections. KUB required 32 of the FSFs to upgrade existing equipment or to install new equipment to help prevent grease-related overflows in their areas.

The 1,225 inspections performed in 2010 resulted in only 42 Notices of Noncompliance and one Notice of Violation. Over 95 percent of the FSFs inspected were in compliance with the Grease Control Program requirements. Of the 43 enforcement actions, 34 resulted in new installations of or upgrades to existing grease control equipment.

Several FSFs upgraded equipment during building renovations or expansions. Some facilities recognized their grease control equipment was needed repair or replacement. The Breadbox Store installed a new 1,000-gallon grease interceptor, upgrading from a 40-pound internal grease trap, when it expanded its services. Buddy's BBQ installed a new 1,500-gallon grease interceptor, upgrading the previous 1,000-gallon interceptor that had developed a crack in the side. The Marriott Hotel replaced two 40-pound internal grease traps with two 200-pound internal traps to provide adequate control during special events held periodically at their facility.

Two Knox County school food-preparation sites, Whittle Springs Middle and Lonsdale Elementary, installed 1,500-gallon grease interceptors. All of the schools in KUB's wastewater service area now have proper grease control equipment. KUB has worked closely with the school system over the last five years to complete the upgrades needed to meet program requirements.

Grease Program Permitting Phase for 2010

In February 2010, KUB sent 824 Grease Permitting packets to FSFs that discharge grease into the wastewater system. The program requires all active and inactive FSFs to be inspected at least annually and to obtain a Grease Control Permit annually if they prepare food.

Each FSF received a permitting packet that explained the facility's risk rating and included application materials and program guidelines. KUB completed inspections of all FSFs in its service area to determine risk ratings and if the FSF needed a permit. Completed permits were received from 780 FSFs, 44 FSFs were inactive or did not need a permit, and 40 were new FSFs to be permitted.

Before permit packets are mailed, FSFs are inspected to determine their risk rating, based on the risk they potentially pose to the collection system. Each facility is rated based on its size, food preparation practices, the maintenance of its grease control equipment, and its record-keeping practices. If an FSF's equipment is undersized or poorly maintained, or if the FSF has not maintained pumping records, the risk rating will be high or unacceptable. If the facility is rated as unacceptable, it will be required to upgrade its grease-control equipment or increase pumping frequency. Otherwise, it will be subject to enforcement action.

The base permit fee is \$100 per year for each facility. If an FSF's grease control system is rated as unacceptable or high risk to KUB's system, KUB charges the facility an additional \$50 fee. Each facility is assessed annually to determine the risk rating and proper fee. Permitting fees help KUB recover some of the costs related to implementing the Grease Control Program. Only 4 percent of the FSFs were rated as high risk or unacceptable for the 2011 permitting year.

Beginning with the 2011 permitting cycle, permits will be valid for two years, but all FSFs will still be inspected annually to ensure compliance and determine their risk rating. Also in 2011, the use of additives in grease control equipment or building discharge lines on a constant or regular basis will be prohibited. Such additives include, but are not limited to, chemicals, acids, caustics, enzymes, emulsifiers, surfactants, commercially available bacteria, or other additives designed to absorb, purge, consume, treat, or otherwise eliminate fats, oil, and grease. Written approval from KUB may be given where specific circumstances exist and grease control is demonstrated by televised inspection of the lines downstream. That will eliminate the potential for dissolved grease to enter the collection system and cause future grease related SSOs.

KUB plans to work with local grease waste haulers in the coming year to more thoroughly inspect grease control equipment after maintenance. Efforts are underway to create a certification class held by KUB for grease waste haulers, which includes a review of grease interceptor and trap components, maintenance procedures, and proper cleaning methods. By working together with the haulers, KUB can better ensure all components of the grease control equipment are installed and functioning properly. If any defects or deficiencies are found during the inspection, the certified haulers are required to provide written notice to the FSF and to KUB detailing the issues that were found and FSFs are required to develop a corrective action plan. Haulers following the requirements of certification and providing proof of proper grease disposal will be recognized as a KUB Approved Grease Waste Hauler.

The purpose of the proposed changes is to make the current program even more effective at controlling grease produced by FSFs and to increase accountability for both the FSFs and the waste haulers used to service FSFs' grease control equipment.

Grease-Related SSO Response and Residential Can the Grease Program

The majority of grease-related overflows in the KUB system occur in residential areas. When such an overflow occurs, KUB initiates a grease investigation that includes making field inspections and sending information to residential customers.

Based on the location of the SSO, KUB uses the electronic mapping tool LandViewer to place a graphic polygon around the geographic area upstream of the SSO location. That helps identify all wastewater customers that may be contributing grease to the SSO location. KUB then generates a report containing customers' names and account information.

KUB inspects commercial customers to verify their compliance with KUB's Grease Control Program requirements. KUB mails residential customers a letter, an educational brochure, and other promotional materials on collecting their grease instead of disposing of it down the drain.

In 2010, KUB mailed grease letters to 868 customers near 12 greaserelated overflows. KUB also sent educational brochures and grease can liners to residential customers. [Note: KUB does not send educational materials to commercial customers, which must have grease traps or interceptors. They are inspected to ensure compliance with the program.]

KUB also emphasized communication to residential customers in 2010 with information on the Can the Grease (CTG)



program to promote customer education and awareness of proper disposal of grease in their homes. Information is always included on the KUB website. During the winter holiday season, it is included on the home page. Residential homeowners also receive educational information through customer newsletters and even promotions of the CTG program in the local newspaper.

During the Thanksgiving holiday, a nonprofit recycling company in the Knoxville area called Clean Energy Biofuels set up collection sites in the Knoxville area to collect used cooking oil, which was then processed into cleaner burning biodiesel. During the holiday collection, over 250 gallons of used cooking oil was collected. KUB has partnered with Clean Energy Biofuels to help sponsor more permanent collection sites to continue the effort of collecting used cooking oil.

KUB continues to promote the CTG program at community events by distributing cans and sending speakers to meetings and other events. KUB grease inspectors gave educational presentations at apartment complexes during monthly tenant meetings, housing agencies, and general utility customer education workshops. KUB participated in 16 local events in 2010 and handed out 785 Can the Grease cans and brochures. This was an increase of seven events over 2009.

Section 3: Continuing Sewer System Assessment Program (CSSAP)

The CSSAP is a systematic evaluation of the entire wastewater collection and transmission system (WCTS) that also assesses capacity to support prioritization of the Corrective Action Plan/Engineering Report (CAP/ER) and the Infrastructure Rehabilitation Program (IRP). It consists of five key programs, each of which includes a method for setting priorities for determining where assessments are to be performed, a list of the tools and methods to be used to conduct assessments, and a performance measure to track progress.

The following table shows the elements of the CSSAP assessment tools and performance goal periods:

Program Elements	Assessment Tools	Completed in 2010	Total Completed*	One Complete Cycle Period
Manhole Condition Assessment	Manhole Inspections Smoke Testing	6 percent	58 percent	12 Years
Gravity Sewer Condition Assessment	Flow Monitoring Smoke Testing Dye Testing CCTV	6 percent	60 percent	12 Years
Private Lateral Condition Assessment	Flow Monitoring Smoke Testing Dye Testing CCTV	14 percent	64 percent	12 Years
Force Main Performance Assessment	Corrosion Defect Identification	100 percent	New cycle begins in 2011**	2 Years
Pump Station Performance Assessment	Pump Station Performance and Adequacy	50 percent	New cycle began in 2010**	2 Years

*Since CSSAP approval 7-28-05

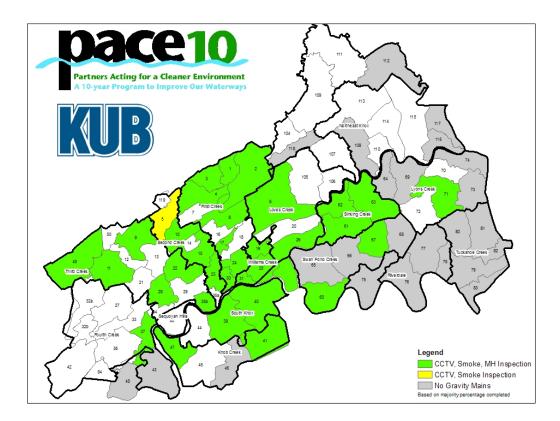
**Completed once every two years

Manhole and Gravity Sewer Condition Assessment

We are dedicated to completing one full cycle of collection system assessment and cleaning in 12 years. At the end of year six, KUB has completed inspection of approximately 60 percent of the collection system infrastructure. This advancement of work was done to facilitate many of the early rehabilitation projects. On the remaining schedule, KUB's daily clean and CCTV goal is 2,500 ft per day for an assumed 200 working days/year (200 days provides allowance for weather, emergency response,

equipment, training, and other personnel constraints that may limit a working day). This amounts to 500,000 ft per year, or approximately 8.5 percent of the system.

In addition to the 201 miles of BA footage, KUB and PACE 10 contractors cleaned and televised 380,663 ft (72 miles) of gravity sewers in 2010. Under PACE 10, contractors smoke-tested 380,663 ft (72 miles) of sewers and conducted 1,535 manhole inspections, with 1,449 manholes rehabilitated or replaced. More than 97,275 ft (18.4 miles) of wastewater mains in the KUB system were rehabilitated or replaced.



We continue to reconcile data from previous years to ensure thorough cleaning and inspections on all assets in each sub-basin.

Flow Monitoring and Modeling

Flow monitoring and modeling continue to be important tools to help KUB assess its system and prioritize basins for cleaning and rehabilitation. KUB has 36 permanent flow meters strategically placed in the wastewater system.

KUB plans to continue to use permanent meters and to add temporary meters as needed to collect data for the system model to help determine what areas to investigate and prioritize for future projects. Flow monitoring data supports planning for Gravity Line Preventive Maintenance, Pump Station and Force Main Preventive Maintenance, and Infrastructure Rehabilitation. After completing significant amounts of sewer rehabilitation in 2009, KUB conducted temporary flow assessment of both First Creek and Williams Creek drainage basins. KUB contractors installed 42 temporary flow monitors and 17 (15 permanent and two temporary) rain gauges in First Creek. Also, nine temporary flow monitors and nine temporary rain gauges were placed in the Williams Creek drainage basin. KUB contractors installed nine additional permanent flow monitors to help analyze the two basins. Data was collected from February 2009 through April 2009. Precipitation conditions of December 2008 and January 2009 were 70 percent and 25 percent higher, respectively, than average values in the Knoxville area.

The flow monitoring conducted in 2009 revealed that improvements had been made in both First Creek and Williams Creek basins. KUB uses an R-value, which is defined as the ratio of the volume of rainfall dependent inflow/infiltration to the rainfall volume, to assess how much stormwater is entering the wastewater collection system. In other words, R-value is the fraction of rainfall from a storm event that enters the wastewater collection system via inflow or infiltration. The higher the R-value, the more rainfall entering the collection system. The flow monitoring in First Creek data showed improvements of R-value in 27 out of the 51 mini-basins, and five out of the ten mini-basins in Williams Creek.

In 2010, after substantial rehabilitation, the South Knoxville basin was monitored by 34 temporary flow monitors, four permanent flow monitors, and 13 rain gauges. In addition, KUB conducted temporary flow assessment in the Shadyland area of the Fourth Creek basin by using one temporary flow monitor and one rain gauge. Data was collected from February 2010 to April 2010. Results from the flow monitoring showed improvements in a majority of the mini-basins in South Knoxville with recommendations for further investigative work to be performed in mini-basins 39C3, 39E1, and Woodson Drive Pump Station area in sub-basin 44.

Private Lateral Condition Assessment

Private laterals may also be a major source of rainfall-derived inflow/infiltration (RD I/I). Private lateral inspections currently follow PACE 10 wastewater system improvement projects. As part of the projects, KUB replaces the lower lateral and installs a two-way cleanout.

A contractor televises customers' upper laterals through the new cleanout and scores them using standard Pipeline Assessment and Certification Program (PACP) criteria. KUB reviews the data and makes recommendations on repairs. The recommendations are reviewed for consistency with PACP standards and enforcement action is taken where appropriate.

For more information on the PLP, see Section 8.

Force Main and Pump Station Performance Assessment

As shown in the CSSAP table at the beginning of this section, KUB is committed to assessing all force mains and pump stations on a two-year cycle. KUB personnel have completed inspections of all pump stations annually since 2008. In 2010, all 62 pump stations received a general condition assessment through a detailed inspection. During inspections, the estimated remaining service life of the structural integrity, mechanical equipment, and electrical reliability at each pump station was reviewed and updated from inspections performed in 2009. KUB performed annual performance inspections on all pump stations. Information from those inspections helps assess the condition and criticality grading of each facility every other year. Based on the results of the 2009 assessment, KUB prioritized pump stations to determine criticality and a course of action for each station in need of maintenance. The prioritized list of stations guides the timeline for project completion.

The wastewater facility preventive/predictive maintenance program has been streamlined to eliminate excess work and consolidate inspection methods into one practical application. In 2010, KUB performed 1,207 inspections of pump stations or equipment. That included 1,117 routinely scheduled preventive maintenance inspections and 90 additional inspections initiated by field crews. [See Appendix B for maintenance activities and schedule.]

In 2009, KUB, with assistance from consultant Camp, Dresser & McKee (CDM), completed a force main assessment in conjunction with the pump station assessment. The assessment included inspections of all high-pressure air-relief valves. KUB continued the assessment of all low-pressure air-relief valves in 2010. The force main assessment evaluates the material and age of the main, the condition of the air-relief valve, the condition of terminal manholes, and problems at pump stations (pumps not pumping at their specified rating or under high pressure due to potential issues with the force main). KUB also monitors Hydrogen Sulfide (H_2S) on a continuous basis and tracks odor problems, which potentially affect the condition of the force main. In 2010, KUB began a project to replace 40 air release valves based on the results of the 2009 assessment. Based on terminal manhole inspections, 12 will be rehabilitated or replaced.

KUB's Force Main Condition Assessment Program identifies areas having potential corrosion issues. Staff uses the information to schedule appropriate maintenance and/or capital improvement activities. [See Section 7: Other MOM Programs for more information.] Because steel, cast iron, and ductile iron pipe are susceptible to corrosion damage in areas where air enters pipes, KUB focuses assessment efforts around air-relief valves and at terminal manholes.

KUB uses temporary dataloggers (OdaLogs) to monitor H_2S levels in areas with odor complaints or previous corrosion issues. The data helps to identify potential for force main corrosion. KUB follows up with additional inspections on lines shown to have high H_2S levels for extended periods.

KUB monitored the following areas in the past year:

Dogwood Drive FM Easton Meadows PS / Parker Drive FM Forks of the River PS / Delrose Dr FM Harrison Keepe PS wet well Ice Chalet (Fourth Cr sludge line) Kohl's PS / Washington Pike FM Ten Mile PS / Rotherwood Drive FM Walker Springs PS / Vanosdale Road FM KUB also performed quarterly H₂S monitoring at the following pump stations and storage facilities:

Ball Road Boyds Bridge SuperOx Casa Bella Chestnut Ridge Clinton Highway Duncan Glen Easton Meadows Eastwood Ellistown Forks of the River Forks SuperOx Gazebo Ginnbrooke Governor's Landing Harrison Keepe Holston Hills Kohl's Lower First Creek Storage Facility Maloneyville Millertown Pike Neubert Springs Power Park Riverview Park Roberts Road Rolling Ridge Shipetown Ten Mile Third Creek Storage Facility Three Points Upper First Creek Storage Facility Walker Springs Walker Springs Storage Facility Washington Pike Wayland Road Woodlands Woodson Drive

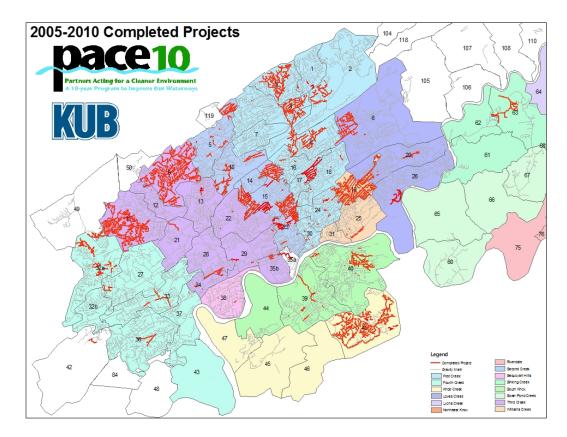
Manholes and lines downstream of force mains are areas that may experience odor complaints. KUB concentrates H₂S monitoring and control efforts in areas such as these and uses various methods of odor control as appropriate.

Section 4: Infrastructure Rehabilitation Program (IRP)

The main objectives of the Infrastructure Rehabilitation Program (IRP) are to address inflow and infiltration (I/I) and other causes of sanitary sewer overflows (SSOs) by maintaining or restoring capacity and structural integrity. It addresses both the gravity portion of the WCTS (gravity lines, manholes, etc.) and the transmission components (pump stations and force mains).

Gravity Lines and Manholes

KUB's IRP rehabilitated or replaced more than 97,275 ft (18 miles) of sewer mains in 2010. [That is about 1.4 percent of the KUB system, as shown by the map below.] Out of 1,535 manholes inspected, 1,449 were rehabilitated or replaced. The mains were rehabilitated or replaced using a mix of cured-in-place pipe, pipe bursting, or open-cut pipe replacement.



KUB initially focused heavily on flow monitoring and modeling to direct rehabilitation. As the IRP matures, KUB increasingly uses other components of the CSSAP, such as televising lines and inspecting pump stations, to direct improvements. Basin Characterization has become a larger part of the evaluation as a more comprehensive set of data becomes available from CSSAP.

Pump Stations and Force Mains

Key performance criteria for pump stations and force mains are hydraulic capacity, structural integrity, and mechanical and electrical reliability. KUB's ultimate goal is to upgrade pump stations as necessary to maintain the design life of equipment and to

certify capacity for new connections in accordance with the requirements of the Capacity Assurance Plan (CAP).

In 2009, KUB began construction to add the Lake Forest pump station to the system. This new station will replace gravity sewer lines that run along and/or under a pond that are subject to high levels of inflow and infiltration. Several older existing stations were removed in 2009; Vestal, Rolling Ridge, and Bud Hawkins.

KUB completed upgrades or replacements of the Boys Home, Crestwood, Ellis Road, Ford Valley, and Railroad pump stations in 2010. Design and/or construction on Chapman Highway, Hanover, John Sevier, and Sea Ray pump station upgrades (facility replacements with new submersible design) are currently in process.

Other 2010 facility and equipment work included upgrades on a pump and discharge valve at Ten Mile pump station, channel grinder upgrades at Lyons Creek pump station, variable frequency drive upgrades at Neubert Springs pump station, and SCADA upgrades and improvements at various facilities.

KUB continues to monitor all wastewater facilities (pump station and storage facilities) with SCADA capabilities at the System Operations Center located at Middlebrook Pike. This is the primary notification and monitoring location for all pump station, storage facility, and metering facility conditions.

Section 5: Gravity Line Preventive Maintenance Program

The Gravity Line Preventive Maintenance Program (GLPMP) describes KUB's process for preventive cleaning of the wastewater system to improve operation, efficiency, and effectiveness. KUB is committed to cleaning the entire wastewater collection system in 12 years.

The GLPMP is divided into the Comprehensive Hydraulic Cleaning Program (CHCP) and Blockage Abatement (BA). Root Control and Manhole Preventive Maintenance are components of both the BA and the CHCP. KUB determines chemical and mechanical root abatement frequency by the condition assessment program.

The Comprehensive Hydraulic Cleaning Program (CHCP)

The CHCP is a systematic, planned cleaning of the system to reduce debris and grease buildup and root intrusion. It is based on preventing and reducing the initial occurrence of system disruptions and maintaining the original hydraulic capacity of the collection system. It also provides support to the CSSAP by removing any obstruction in the system that would prevent a comprehensive inspection.

KUB and PACE 10 contractors cleaned and televised 380,663 ft (72 miles) of KUB sewers in 2010.

The Blockage Abatement (BA) Program

BA is a preventive maintenance approach for addressing operational issues. It uses previous event history and condition assessment information to implement activities that prevent or reduce system disruptions. Activities may include, but are not limited to, hydraulic flushing, mechanical and chemical root control, rodding, and CCTV inspections.

BA contract crews cleaned 1,061,261 ft (201 miles) and televised 298,520 ft (56 miles) of sewers in 2010. KUB had a total of 727,672 ft (138 miles), or 10 percent of its sewer mains, in the BA program in 2010.

KUB adds a line segment to the BA Program based on inspection data or when a blockage or other failure occurs. Each line segment included in the BA Program is assigned a cleaning frequency according to its condition and the probability or risk of failure. The frequency of the maintenance activity ranges from one month to 42 months.

During calendar year 2010, KUB performed root control using mechanical root cutting and cleaning under the BA Program.

Section 6: Sewer Overflow Response Plan (SORP)

As reported in the most recent SORP [revised and re-submitted to the EPA June 27, 2005, and approved July 28, 2005], KUB continues to place a high priority on maintaining and executing a Sewer Overflow Response Plan to help protect our community and our environment. KUB's Emergency Response Plan (ERP), which was approved by EPA on December 12, 2005, dovetails with the SORP. The ERP helps define the level of response that we take for everything from a single, isolated event to system-wide overflows.

KUB reviews the SORP annually. This progress report includes an update on implementation of recent revisions, training, and other areas of interest.

KUB makes all reasonable efforts [without endangering the safety of the responder or the public] to respond to an SSO within 45 minutes. In 2010, our average response time was 36 minutes. We continue to work to improve our response, using technology such as remote overflow sensors that alert our system operators to an overflow condition, prompting immediate dispatch of a First Responder. We are also using mobile mapping technology, which helps our responder quickly identify the geographic location of the overflow and plan the best route. Other factors that influence response time include safety considerations, location of the problem, severity of events, and work loads at the time of the call. We will continue to assess each of those factors to determine if changes need to be made to improve response time. Starting February 2, 2009, KUB consolidated all of the First Responders into a team of trained individuals covering all shifts that will respond to all gas, water, and wastewater trouble calls.

KUB relies on several measures to help maintain an appropriate quality of SSO response:

- Members of the CSI team, who are knowledgeable in SORP requirements, perform periodic quality assurance audits to evaluate how effectively the crew implemented the SORP. They look at a variety of factors, including containment measures, control zone and signs, and cleaning, and they check that crews followed the disinfection procedure. CSI works closely with crews and supervisors to maintain appropriate standards.
- Underground Construction supervisors monitor crews' work on a day-to-day basis. They also use tailgate meetings in the field, coaching opportunities, and regular meetings to emphasize safety and maintaining proper standards. Compliance with established procedures is part of KUB's Performance Management Program measures so feedback can be provided to employees in case improvement is needed.
- Feedback from customers, concerned citizens, neighborhood associations, City personnel, and organizations (such as the Izaak Walton League or Tennessee Clean Water Network) also helps identify any instances when the quality of response falters. Such feedback is directed to CSI, who works with UGC to correct the issue in that instance and prevent it from recurring in future responses.

Safety of responders and of the public is a primary concern for KUB. During 2010, KUB crews responded to 1,276 wastewater trouble calls [all calls, not just SSOs] with no recordable safety incidents that were directly related to the sewer trouble calls, according to KUB's Safety Department. Appropriate safety training is provided through the Safety Department, and UGC conducts regular safety meetings and discusses safety frequently at tailgate meetings. During 2008, KUB initiated the "START With Safety"

Program. ("START" stands for "Safety Talks and Accident Reduction Training.") This program focuses on awareness, training, and prevention to address potentially unsafe conditions and actions, thereby reducing accidents and injuries.

SORP Training:

In addition to working closely with all departments involved in the SORP on a day-to-day, event-by-event basis, CSI updates appropriate personnel as needed on revisions. KUB completed and utilized a computerized SORP training tool in 2008 that allows employees to train at their own pace on a computer. The computerized training is available on demand for new employees or others who need refresher training. Targeted employees receive electronic notification when training is required.

Manhole Surcharge Sensors: As previously reported, KUB added a tool in 2005 to help alert responders when wet weather overflows are imminent: manhole surcharge level sensors. When the level in manholes with a sensor reaches a set point, the sensor sends a page over a cellular system. The page notifies the KUB Operations Center, which dispatches a First Responder and sends an e-mail alert to CSI. The sensor also sends a second page when the manhole level is back below the set point. KUB continues to use the sensors [currently 21], as needed, to automate coverage of the hot spots formerly on the list for wet-weather surveys, freeing up crews for other duties.

KUB website (www.kub.org): The SSO log includes a volume category added in 2005 and a link to a permanent archive of SSOs by month. In 2007, KUB and a contractor conducted focus groups with customers to help direct a site redesign. The new site went live during 2008 and is providing customers more interaction with their utility services. The SSO information is still available on the new site. To access the SSO log, enter www.kub.org/wps/portal/ssolog into your browser.

Section 7: Other MOM Programs

KUB continues to implement and manage the Other MOM Programs in substantially the same manner as previously reported. The following is a brief update on some areas of particular interest or those where there have been changes:

Pump Station Preventive Maintenance Program

KUB's Pump Station Preventive Maintenance Program includes both routinely scheduled maintenance and work orders field crews create. [Orders created by crews are designated RSCIN in the spreadsheet in Appendix B.] A crew at a pump station for a scheduled pump inspection, for example, may also decide to inspect another piece of equipment or perform a routine facility inspection.

In 2010, crews conducted 1,207 total inspections of stations or equipment; 1,117 of those were regularly scheduled inspections; 90 were orders created in the field. KUB also uses the rate of trouble occurrences to adjust inspection frequencies. If a pump at one station generates a number of trouble calls, crews may inspect it more frequently.

For more detail on the numbers and types of inspections see Appendix B. The appendix also includes sample checklists for some of the inspection categories.

Force Main Preventive Maintenance Program

Force mains are a critical part of the sewer infrastructure and operations. Force main and air/vacuum valve maintenance and operation have a direct impact on the hydraulic performance of wastewater pump stations. The vertical alignment of force main slopes, the location of air/vacuum valves, and the age of sewage transmitted by the force main may also result in odor sources, corrosion problems, and even pipe failure.

Like pump stations, the force mains are evaluated based on both criticality (consequence of failure) and condition (probability of failure). Since it can be cost prohibitive to inspect the pipe of each force main in KUB's system, surrogate condition factors were used with the available existing information to estimate the condition of each asset. The force mains are analyzed and categorized in terms of field measurements and existing data collection in terms of: Quantity of Flow Conveyed, Transportation Impacts, Urban Impacts, Environmental Impacts, Public Health Impacts, Age, Material, Air Release Valve Information, Discharge Manhole Condition, and SSOs. Combining those factors accordingly, the existing force mains can be viewed in terms of the consequences and probability of their failure, which helps dictate the necessity of replacement and/or rehabilitation.

Currently, the force mains for the Sea Ray, Meadow Oaks, Amherst, and Hanover pump stations are scheduled for replacement in 2011. It is likely that a majority of the force mains in conjunction to future pump station facilities to be replaced/rehabilitated will also be replaced.

Public Information/Public Input Plan

KUB continues to concentrate on educating customers about the wastewater system, sewer overflows, impacts on area waterways, private lateral maintenance, and how they can help protect their plumbing and our environment. We use a variety of communications methods including our website, customer bill messages, our customer newsletter, brochures, presentations, and articles or ads in local papers.

KUB's Customer Information Guide includes information about wastewater safety, private laterals, and prohibited connections. The guide mails to about 1,100 customers each month who are either new to KUB or who move to a new address. We also include similar information in our *Connection* newsletter, which mails in all customer bills (approximately 200,000 bills per month) six times a year.

We continue to meet regularly with the Partners Council, which was established in December 2004 to enhance KUB's PACE 10 program by increasing awareness and building consensus in our community. The council members both provide feedback and input to KUB and take information back to the groups they represent. They receive a written monthly update on current PACE 10 projects, construction communications, Can the Grease mailings, overflow numbers, and rainfall data. Every other month, the council meets for a presentation and more in-depth discussion of ongoing projects and trends in overflows.

KUB also offers speakers to neighborhood groups and organizations about PACE 10 projects, private laterals, prohibited connections, and other wastewaterrelated topics. Groups may request presentations through our website or by calling our Customer Information Center at 865-524-2911.

We continue to mail letters to customers in advance of PACE 10 projects with information about the need for the project, smoke testing information, and more. In 2010, we sent approximately 9,930 construction letters.

We also increased the wastewater safety and CTG information in our Utility Safety Program, which provides presentations to public and private schools and organizations such as the Boy's and Girl's Clubs in KUB's service area. KUB presented the USP to approximately 1,000 students in 16 schools or organizations in 2010.

In November 2010, KUB ran an ad on the Can the Grease program in the Knoxville News Sentinel and featured the program in a banner on the front page of our website. The KUB website home page changes periodically to include seasonal topics, new functionality, and special promotions. To ensure that customers can easily find topics that have been on the home page, we also developed a Hot Topics Index that includes things that have been on the front page. Wastewater related topics in the index include Can the Grease, PACE 10, the Private Lateral Program, Smoke Testing, and Sewer Overflows.

Section 8: Private Lateral Program

As required by the Consent Decree, KUB must operate a mandatory Private Lateral Program (PLP)*. The program helps protect our environment by ensuring that property owners repair their laterals and/or remove prohibited connections. [Prohibited connections include roof downspouts and other sources of stormwater.] Defective laterals or prohibited connections can overload KUB's sewer system with rainwater and contribute to sewer overflows. Leaking laterals can also add to pollution in area waterways.

KUB takes these steps as part of the PLP:

- Inspect customers' private laterals and identify defects or prohibited connections.
- Inform property owners of any defects, the process to follow to make repairs, and potential availability of financial aid.
- Ensure owners make lateral repairs or remove prohibited stormwater connections.
- Enforce the PLP by terminating the water service of customers who do not make repairs within the 120-day timeframe.

The statistics below illustrate actions undertaken in the Program from January 1, 2010, to December 31, 2010.

Total Private Laterals	326
Repair	65
Replace	261
Total with Tenants	81
Repair/Replace Complete	290
Terminations	19
Reinstatements	23
CAC Activity Applications provided to customers Applications received Grants approved Loans approved	173 187 195 1
Funds Disbursed Grants Loans	\$296,109.43 \$0.00

KUB continues to explore methods to identify defective private laterals and increase opportunities for property owners to take advantage of financial assistance. The income guideline percentages for both the Grant and Loan programs are increased based on current homeowner income information obtained from the Department of Housing and Urban Development for Knoxville/Knox County. The expected result is to provide support for a greater number of customers that need assistance during the remainder of the SEP.

In 2010, KUB implemented an Incentive Program to help property owners proactively replace their defective sewer laterals and remove prohibited connections if they qualified

for assistance under the Supplemental Environmental Project (SEP). KUB offers this program to property owners in areas where sewer main rehabilitation has not occurred and will not occur before the completion date of the SEP in 2013. The areas have also been determined to have significant inflow or infiltration during heavy rainfall and older sewer pipe (system age is greater than 40 years) consisting of a large amount of concrete, clay, cast iron, or Orangeburg pipe. A total of 2,915 customers in five separate areas received incentive letters in 2010, which resulted in 144 grants or repaired laterals.

Members of the Regulatory Compliance staff attend community meetings in areas where rehabilitation is planned or is in process to educate homeowners about the PACE 10 process and promote funding assistance available under the SEP. KUB also uses the website and professional group presentations to educate property owners about the importance of properly maintaining sewer laterals and removing prohibited connections.

Appendices

Appendix A

Grease Control Program Summary Tables

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Bruegger's Bagels		50	50		2			1	1	Catagory 3 - Medium		1				t
Bruster's Ice Cream		*1500	50		1	1		•	•	Category 4 - Low					1	Ť
Buddy's Bar B Q Banquet Hall (5806 Kingston Pk.)		1500		1500	1				1	Catagory 3 - Medium						Ť
Buddy's Bar B Q Bearden (5806 Kingston Pk.)		1500		1500	1				1	Catagory 3 - Medium						Ť
Buddy's Bar BQ (8402 Kingston Pk.)		***40		1500	1				1	Category 2 - High						
Buddy's Bar BQ (4401 Chapman Hwy.)		1500		1500	1				1	Category 3 - Medium					1	
Buddy's Bar BQ (4500 N. Broadway)		1000		1000	1				1	Catagory 3 - Medium					<u> </u>	1
Buddy's Bar BQ (3700 Magnolia)		1500		1500	1		1			Catagory 3 - Medium					L	1
Buffalo Wild Wings Grill and Bar		1500		1500	1		1			Catagory 3 - Medium					L	4
Burger King (2806 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium					 	4
Burger King #11722 (7206 Region Lane)		1500		1500	1				1	Catagory 3 - Medium					 	+
Burger King #12141 (127 Northshore) Burger King #13146 (2800 Chapman Hwy.)		1500 1500		1500 1500	1		1		1	Catagory 3 - Medium Catagory 3 - Medium						+
Burger King #13146 (2800 Chapman Hwy.) Burger King #5346 (319 Merchants)	+	1000		1000	1		I		1	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	+
Burger King #9679 (5316 Millertown)		1500	+ +	1500	1		1			Catagory 3 - Medium						+
Burger King (8412 Kingston Pk.)		1000		1000	1		1		1	Catagory 3 - Medium					<u> </u>	+
Burger King (5310 Middlebrook)		1500		1500	2		1	1		Catagory 3 - Medium	1					t
Burlington Fish Market		40	40	1000	1				1	Category 4 - Low						t
Busby's Tango Grille		1500		1500	1	1				Category 3 - Medium						t
Bush Brothers		1500, 100	100	1500	1				1	Catagory 3 - Medium						Ť
Butcher Shop	Х	1500		1500	1				1	Catagory 4 - Low						Ť
By the Tracks Bistro		1500		1500	1				1	Catagory 3 - Medium						T
C & C Café		20	20		2		2			Category 4 - Low						Ī
Cafe 4		1500		1500	1				1	Catagory 3 - Medium						
Cafe Gourmet	Х	40	40		1				1	Category 4 - Low						
Cagle Terrace	Х	*-	*-		1		1			Category 4 - Low					L	_
Cairo Cafe		100, 20	100, 20		3			2	1	Catagory 3 - Medium					1	4
Cajun Cafe & Grill		40, 20	40, 20	4500	3		2		1	Catagory 3 - Medium					 	4
Calhoun's (400 Neyland)		1500		1500	1				1	Catagory 3 - Medium						4
Calhoun's (6515 Kingston Pk.)		1500 200, 50	200, 50	1500	1				1	Catagory 3 - Medium						+
Cancun Mexican Restaurant (4409 Chapman) Cancun Mexican Restaurant (8606 Asheville)(CLOSED)	Х	1000	200, 50	1000	1				1	Category 2 - High Catagory 4 - Low						+
Cancun Mexican Restaurant (4829 N. Broadway)	^	1000		1000	2		1		1	Catagory 3 - Medium						+
Cappuccino's/Copper Cellar Restaurant		1500		1500	1		I		1	Catagory 3 - Medium					<u> </u>	+
Captain D's # 3204 (812 Merchants)		1000		1000	1				1	Catagory 3 - Medium					<u> </u>	+
Captain D's #3205 (4320 Chapman)		1000		1000	1				1	Catagory 3 - Medium						t
Captain D's #3406 (3121 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium						t
Captains Bar & Grill	Х	30	30		1		1			Category 4 - Low						Ť
Cardins Drive-In		40	40		1		1			Catagory 3 - Medium						T
Carleo's Lounge		50	50		1	1				Category 3 - Medium					1	Ī
Carmike Cinemas 10		40	40		1				1	Catagory 3 - Medium						T
Carousel II	Х	*-	*-		1				1	Category 4 - Low						
Carringer & Son's Market		40	40		1		1			Catagory 3 - Medium					<u> </u>	_
Carter Elementary		1000, 200	200	1000	1		1			Catagory 3 - Medium					L	_
Carter High School		2000		2000	1		1			Catagory 3 - Medium					L	_
Carter Middle School		1500		15000	1		1			Catagory 3 - Medium					 	4
Casa Don Gallo		1500		1500	3			1	2	Catagory 2 - High		1				4
Catholic Charities of East TN.	-	1000	40	1000	1				1	Catagory 3 - Medium		4				╡
Cantinella's Central Baptist Church Early Child Ctr.		40 1000, 100	40		1			<u> </u>	1	Category 3 - Medium Category 4 - Low		1				╡
Central Baptist Church Early Child Ctr.	+	50,50,40	50,50,40		2			2		Category 4 - Low Catagory 3 - Medium					2	+
Central Baptist Church of Bearden	+	*4000	30,30,40	2000	1		1	Z		Catagory 3 - Medium					۷	+
Central Park		1000	+ +	1000	3		2		1	Catagory 3 - Medium						+
Central United Methodist Church		1000		1000	1		۲	1	1	Catagory 3 - Medium						+
Cesar's Bakery	Х	30	30		1				1	Catagory 4 - Low						t
Chaiyo's Thai & Sushi		40	40		1				1	Catagory 3 - Medium						t
Chandler's Deli	1	40	40		1		1			Catagory 3 - Medium						t
Charleys Grilled Subs		60	60		2		1		1	Catagory 3 - Medium					[1
Chepa's Mexican Restaurant		40	40		1		1			Catagory 3 - Medium					1	1
Cherokee Country Club		1000		1000	1				1	Catagory 3 - Medium						Ī
																-

Comments
Business has relocated to new location.
שעשוויבשש וומש ובוטנמובע נט וופש וטנמווטוו.
*FSF has exceeded grease trap size requirement.
*** FSF has planned to upgrade to larger GI before enforcement action.
FSF installed new GI due to enforcement.
Business is closed.
Business is closed.
Business has been sold.
No food production at facility.
FSF installed new trap under enforcement.
Business is closed.
Business is closed.
Business is closed.
No food production at facility.
FSF installed two internal traps under enforcement on two triple sinks.
*FSF has exceeded grease trap size requirement.
Dusiassa is slassal
Business is closed.

		Trap /		Interceptor												T
Facility Name	Inactive FSFs	Interceptor Size	Trap Size Required	Size Required	Total	Initial Inspections	Repeat	Follow up	Trap	Risk Rating	Inspection Letters		NOV Lottors	SNC Lottors	Traps Installed	
Cherokee Health Systems	FJFS	1500	Required	1500	1	inspections	Inspections	Inspections	1 1	Category 4 - Low	Letters	Letters	Letters	Lellers	Installeu	1
Chesapeakes		1000		1000	1				1	Catagory 3 - Medium					[1
Chez Guevara		1500		1500	1		1			Catagory 3 - Medium						1
Chez Liberty		1500		1500	1	1				Category 3 - Medium						1
Chick-Fil-A (7063 Kingston Pk.)		1500		1500	1				1	Catagory 3 - Medium						
Chick-Fil-A (800 S. Gay Street)		150	150		1				1	Catagory 3 - Medium					<u> </u>	
Chick-Fil-A (3001Knoxville Center Dr.)		40	40		4		2	1	1	Catagory 3 - Medium	1				L	_
Chick-Fil-A (7600 Kingston Pk.)		50	50		7		5	1	1	Catagory 3 - Medium					L	1
Child & Family Tennessee		1000		1000	1				1	Catagory 3 - Medium					 	4
Children At Play Learning Center		30	30		1				1	Catagory 3 - Medium						_
Children's Center of Knoxville		40 1500	40	1500	1		1		1	Catagory 3 - Medium						+
Chilhowee Elementary Chili's (6635 Clinton Hwy.)		1500		1500	1		1		1	Catagory 3 - Medium Catagory 3 - Medium		-			<u> </u>	+
Chili's (1815 Cumberland Ave.)	х	1000		1000	1		1		1	Catagory 4 - Low						t
Chili's Restaurant #34 (7304 Kigston Pk.)	~	1500		1500	1				1	Catagory 3 - Medium						1
China Garden		1000		1000	2				2	Catagory 3 - Medium						t
China Wok		1500		1500	1	1			_	Category 3 - Medium					1	t
Chinese/Japanese Restaurant	Х	*-		1500	1			1		Category 4 - Low						Î
Chop House		2000		2000	1				1	Catagory 3 - Medium					1	Î
Christenberry Elementary		1000		1000	1				1	Catagory 3 - Medium					Í	1
Christenberry North		1000		1000	1				1	Catagory 3 - Medium						Ĩ
Chrome Pony		40	40		4		3		1	Catagory 3 - Medium						
Chuck E Cheese #055		1500		1500	1				1	Catagory 3 - Medium					<u> </u>	
Church Street UMC		150, 50	150, 50		4		3		1	Catagory 3 - Medium					2	_
Ci Ci's Pizza (2885 Tazewell)		1000		1000	1		-		1	Catagory 3 - Medium					 	4
Ci Ci's Pizza (8414 Kingston Pk.)		1000		1000	3		2		1	Catagory 3 - Medium					 	4
Cinnabon		30	30		4		2		2	Catagory 3 - Medium		-			 	_
Cities Cupcake Boutique		60	60	2000	1				1	Catagory 3 - Medium						-
City/County Building Jail Clarion Inn	X	*1500, 1500 *-	*_	2000	1		1		1	Catagory 3 - Medium Category 4 - Low					<u> </u>	+
Club Leconte	^	- 100, 100	100, 100		1		I		1	Category 2 - High						t
Coffee & Chocolate		30	30		1				1	Category 2 - High						t
Colonel's Delicatessen		40	40		1				1	Catagory 3 - Medium						t
Columbus Home	Х	*-	*-		1		1			Category 4 - Low						t
Comfort Suites Hotel	~	40	40		1		1			Catagory 4 - Low						t
Continuum Courtyard (Inskip Road)		100	100		4		2	2		Catagory 3 - Medium						Ť
Continuum Courtyard (Parkway)		100	100		1	1				Category 3 - Medium					1	Ť
Cool Beans Restaurant		1000		1000	1				1	Catagory 3 - Medium					Í	1
Coolato Gelato's Italian Ice		*6500		3000	3		2		1	Catagory 3 - Medium					Í	1
Copa Cabana Sports Bar		30	30		2				2	Catagory 3 - Medium						
Copper Cellar/Cumberland Grill (1807 Cumberland Ave.)		2000		2000	1				1	Catagory 3 - Medium					L	
Copper Cellar Commissary (3001 Industrial Park)		1000		1000	1				1	Catagory 3 - Medium					L	_
Corner Market	Х	50	50		1		1			Catagory 4 - Low					L	_
Country Table Restaurant		40	40		1					Catagory 3 - Medium		-			 	_
Court South (2934 Alcoa Hwy.)		40, 20	40, 20		1				1	Category 4 - Low Catagory 3 - Medium						_
Coyote Joes Cracker Barrel # 546 (2920 S. Mall Rd.)		40 1000, 1000	40	2000	2			1	1	Catagory 3 - Medium	1					+
Cracker Barrel # 546 (2920 S. Mail Rd.) Cracker Barrel #12 (Central Ave. Pk.)		*1500, 1000		2000	1				-	Catagory 3 - Medium		-			<u> </u>	+
Cracker Barrel #170 (Cracker Barrel Lane)		1,500		1500	1		1		1	Catagory 3 - Medium						$\frac{1}{2}$
Creative Catering		50, 20	50, 20	1300	2	1	1	1		Category 3 - Medium	1				1	t
Cumberland House Hotel		3000	00, 20	3000	1				1	Catagory 3 - Medium					· · · ·	t
DaVinci's Pizza (113 S.Central Ave.)		40	40	0000	1					Catagory 3 - Medium						t
DaVinci's Pizza (3337 Sutherland)		2000		1000	3		2		1	Catagory 3 - Medium						t
Days Inn (Asheville Hwy.)	Х	*-	*-		1		1			Category 4 - Low						Ť
Dazzio Pizza		100, 50	100, 50		2			1	1	Catagory 3 - Medium						Ť
Dead End B.B.Q.		1500		1500	3		2		1	Catagory 3 - Medium					Í	1
Denton's Orange Drink		1000		1000	1				1	Catagory 3 - Medium						Ĩ
Dippin Donuts		1000		1000	1				1	Catagory 3 - Medium						l
Dixson's Bar B Que		40	40		1	<u>_</u>			1	Catagory 3 - Medium						
Doan's Market & Deli		30	30		1				1	Catagory 3 - Medium						ļ
Dogwood Elementary School	ļ	1000		1000	1				1	Catagory 3 - Medium					 	1
Domino's (7419 Middlebrook)		1500		1500	1				1	Catagory 3 - Medium					I	1
Domino's Pizza (2104 Cumberland)		40	40		2		1		1	Catagory 3 - Medium					 	4
Domino's Pizza (5420 Pleasant Ridge)		40	40		1		1			Catagory 3 - Medium					ļ	4
Domino's Pizza #5466 (900 N. Broadway)	ł	40	40		1				1	Catagory 3 - Medium					i	+
Domino's Pizza (7527 Northshore) Don Pablo's		40 1000	40	1000	2		1	1	1	Catagory 3 - Medium Catagory 3 - Medium		1				+
DUIT FAUIU S	I	1000		1000		l	I		1	Calagory 5 - Medium	1	L			<u>ـــــــ</u>	1

Comments
Business is closed.
Business is remodeling building.
FSF replaced two internal traps with larger traps, no space for external GI.
*FSF has exceeded grease trap size requirement.
No food production at facility.
FSF has internal trap on the dishwasher. No place for GI to be installed.
FSF has internal trap on the dishwasher. No place for GI to be installed.
No food production at facility.
No food production at facility.
*FSF has exceeded trap size requirement. Shares trap with other FSF's.
Business is closed.
Seasonal use, summer only.
*FSF has exceeded grease trap size requirement.
** FSF installed new internal under enforcement.
No food production at facility
No food production at facility.
Shares trap with another FSF.

Facility Name	Inactive	Trap / Interceptor		Interceptor Size	Total	Initial	Repeat	Follow up	Trap	Risk	Inspection	NONC	NOV	SNC	Traps	ĺ
· · · · · · · · · · · · · · · · · · ·	FSFs	Size	Required		Inspections		•	· · · ·	•		Letters		Letters		-	l
Double D. Saloon & Grill		30	30		1		1			Catagory 3 - Medium						Ĩ
Downtown Brewery and Grill		150	150		1				1	Catagory 3 - Medium		-			<u> </u>	4
Downtown Grind Downtown West Cinema 8		30 **-	30 40		1				1	Category 4 - Low Category 1 - Unaccep	tabla	1			<u> </u>	╉
Duncan Cafe/ Duncan Building		40	40		1				1	Catagory 3 - Medium	itable					ł
Dunkin Donuts		1500		1500	1				1	Catagory 3 - Medium					<u> </u>	t
Dynasty Express #2 (1647 Cumberland)		30	30		1				1	Catagory 3 - Medium						Ť
Dynasty Express (4911 N. Broadway)		40	40		1				1	Catagory 3 - Medium						Ĩ
Earthfare		1500		1500	2			1	1	Catagory 3 - Medium		1				
East Knox Elementary School		1500		1500	1				1	Catagory 3 - Medium					<u> </u>	1
East Tennessee Children's Hospital		2000		2000	1				1	Catagory 3 - Medium					───	+
East TN Regional Juvenile Service Cent. Echo Bistro & Wine		2000 1000		2000 1000	1 2				1 2	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	+
El Charro		1500		1500	1				1	Catagory 3 - Medium Catagory 3 - Medium					├───	+
El Chico Restaurant #1		1000		1000	1				1	Catagory 3 - Medium					├	t
El Mezcal Mexican Restaurant		200	200	1000	1		1			Catagory 3 - Medium						t
El Tenampa Garibaldi LLC		30	30		1				1	Catagory 3 - Medium						Ť
Elmcroft of West Knoxville		1500		1500	1				1	Catagory 3 - Medium						I
Entertainer Catering		100	100		1				1	Category 4 - Low					<u> </u>	ļ
Ephesus Mediterranean Grill		30	30	500	1				1	Catagory 3 - Medium		-			 	4
Fair Garden Elementary School Faith Christian Fellowship	~	500 *-	*_	500	1	4	1			Catagory 3 - Medium					<u> </u>	-
Fath Christian Fellowship Fats BBQ	Х	40	40		1	1	1			Category 4 - Low Catagory 3 - Medium					<u> </u>	+
Facoli's #5046		1000	40	1000	1		1			Catagory 3 - Medium Catagory 4 - Low		+			├	╉
Fifth Avenue Baptist Church		1000	100	1000	1		1			Catagory 3 - Medium		-			┣────	ł
Firehouse Subs (128 Buckingham)		50	50		1				1	Catagory 3 - Medium						1
FireHouse Subs (4916 Kingston Pk.)		50	50		2			1	1	Catagory 3 - Medium		1				İ
Firehouse Subs (5226 N. Broadway)		1500		1500	1		1			Catagory 3 - Medium						Ĩ
Firehouse Subs #191 (1708 Cumberland)		40	40		1				1	Catagory 3 - Medium						I
First Lutheran Church and School		40	40		1		1			Catagory 3 - Medium					<u> </u>	1
First Step II Inc. Young Adventurers (520 Sevier)		40	40		1				1	Category 4 - Low		-			 	4
First Steps II (4605 Old Broadway)	Х	*-	*-		1		1			Category 4 - Low					<u> </u>	+
First United Methodist Church Five Guys Burgers (Brookview Way)		100, 40 1500		1500	1	1			1	Catagory 3 - Medium Category 3 - Medium					1	╉
Florence Crittenton Agency Inc.		1000		1000	1	1			1	Category 3 - Medium Category 3 - Medium					<u>├</u>	+
Food City (4580 Chapman)		1000		1000	1		1		1	Catagory 3 - Medium					┣────	ł
Food City (284 Morrell)		1000		1000	1				1	Catagory 3 - Medium						1
Food City # 673 (4216 N. Broadway)		1500		1500	1		1			Catagory 3 - Medium						Î
Food City # 677 (5078 Clinton Hwy.)		1500		1500	1				1	Catagory 3 - Medium						Ĩ
Food City # 678 (5801 Western)		1000		1000	2			1	1	Catagory 3 - Medium	1					I
Food City #655 (7510 Asheville)		1000		1000	1		1			Catagory 3 - Medium					<u> </u>	1
Food City #674 (5941 Kingston Pk.)		1000		1000	1				1	Category 3 - Medium		-			 	4
Food City #676 (1950 Western)		2000		2000	2		1	1	1	Catagory 3 - Medium	1				 	+
Food City #685 (4805 N. Broadway) Food City #689 (2939 Alcoa)		1000 1000		<u>1000</u> 1000	1		1		1	Catagory 3 - Medium Catagory 3 - Medium					├───	╉
Food City (2712 Loves Creek)		1000		1000	1		1		1	Catagory 3 - Medium					┝───	ł
Food Lion #1545 (6221 Riverview)		1000		1000	2		1		1	Catagory 4 - Low						1
Food Lion (4728 Centerline Drive)		1000		1000	1				1	Catagory 3 - Medium						Ť
Fort Sanders Educational		50	50		1		1			Catagory 3 - Medium						Î
Fort Sanders Hospital		2000		2000	1				1	Category 2 - High					L	1
Fountain City Creamery		30	30		1				1	Catagory 3 - Medium					<u> </u>	_
Fountain City Diner		2000	-	2000	1			4	1	Catagory 3 - Medium					───	4
Fountain City Elementary Fountain City Presb. Church Childcare	X	1000 *-	*_	1000	4		1	1	2	Catagory 3 - Medium					 	+
Fountain City UM Church	X	*_	*_		1		1		1	Category 4 - Low Category 4 - Low					<u> </u>	ł
Fox's Pizza		50	50		2		1	1	1	Catagory 3 - Medium		1			┣────	ł
Freedom Christian Academy		1000	00	1000	2		1	1		Catagory 3 - Medium		· ·				1
Fresh Market & Deli	1	20	20		2	1		1	1	Catagory 3 - Medium		1	1	1	<u> </u>	ţ
Froots Smoothies	Х	40	40		3		2		1	Catagory 4 - Low						Ĵ
Froyoz		*1500	40		1	1				Category 4 - Low					L	1
Frullati Cafe		30	30		7		5	1	1	Catagory 3 - Medium					Ļ	
Frussies Deli		20	20	4000	1		1			Catagory 3 - Medium		_			 	4
Fulton High School		1000	20	1000	2		2			Catagory 3 - Medium					 	4
Game Over Deli Garrett's Downtown Deli		30 50	30 50		3		3	1	1	Category 3 - Medium Catagory 3 - Medium		1			╞────	$\frac{1}{2}$
Garrett's Downtown Dell Gino's Pizza & Subs		30	30		2		2			Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	-
Gluton Free Goodies	Х	1500	50	1500	1		۷		1	Catagory 3 - Medium Catagory 4 - Low		-	+		<u> </u>	t
		1000	I	1000	I	1		1	<u> </u>		I		1	I	<u>ا</u> ــــــــــــــــــــــــــــــــــــ	T

Comments
**FSF is in enforcement.
No food production at facility.
Business is closed.
No food production at facility.
New FSF.
Business is closed.
FSF has 2000 gallon GI that is pumped monthly.
PSP has 2000 gallon GI that is pumped monthly.
No food production at facility.
No food production at facility.
Business is closed.
Business is closed.

		Trap /		Interceptor												T
Facility Name	Inactive	•	-	Size	Total	Initial	Repeat	Follow up	Trap	Risk	Inspection		NOV	SNC	Traps	l
Godfather's Pizza	FSFs X	5ize 100	Required 100	Required	Inspections	Inspections	Inspections	Inspections	Inspections	Rating Category 4 - Low	Letters	Letters	Letters	Letters	Installed	ł
Godfrey's Restaurant (Holiday Inn Express)	~	150	150		1				1	Category 2 - High					<u> </u>	t
Golden City Restaurant	Х	60, 40			1				1	Catagory 4 - Medium						ħ
Golden Garden Chinese Restaurant		40	40		1				1	Catagory 3 - Medium						T
Golden Wok		1000		1000	1				1	Catagory 3 - Medium						I
Gonzasa's Mexican Market	Х	1000		1000	1	1				Category 4 - Low					Ļ	
Granny Bea's Southern Cooking		1000	00	1000	1	1			1	Category 3 - Medium					 	+
Great American Cookie Company (3001 Knoxville Center) Great American Cookies (7600 Kingston Pk.)		30 30	30 30		2		1		1	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	÷
Great American Steak & Buffet Co.		2000	30	2000	6		1	3	2	Catagory 3 - Medium					<u> </u>	t
Great Wraps (1838 Cumberland)	Х	50	50	2000	1				1	Category 4 - Low						t
Green Magnet and Math Academy		1500		1500	1				1	Category 3 - Medium						t
Gresham Middle School		1000		1000	1		1			Catagory 3 - Medium						T
Gridiron Burgers (6631 Clinton)	Х	150, 50	150, 50		1				1	Category 4 - Low						Ī
Grill Express	Х	20	20		1				1	Catagory 4 - Low					Ļ	
GSA Court House Café	X	1000, 40	40	1000	1				1	Catagory 4 - Low					 	+
Guadalajara Market and Deli	X	50	50	1500	3		2		1	Category 4 - Low					 	4
Gunthor's Galley Gus's Good Time Deli	Х	1500 20	20	1500	2		2		1	Catagory 4 - Low Catagory 3 - Medium					<u> </u>	+
Guts s Good Time Dell Guthrie's		1500	20	1500	<u> </u>		2		1	Catagory 3 - Medium					<u> </u>	t
Half Barrel		1500		1500	1				1	Catagory 3 - Medium					<u> </u>	$^{+}$
Ham 'N' Goodys, Inc.		40	40	1000	1				1	Catagory 3 - Medium					<u> </u>	t
Hampton Inn (7445 Sawyer)		50	50		1				1	Category 3 - Medium						Ť
Hampton Inn & Suites (5411 Pratt Road)		*1500	50		1				1	Category 4 - Low						Ť
Handy Dandy Market #5		40	40		3		2		1	Catagory 3 - Medium						T
Hanna's Cafe #2		30	30		1				1	Catagory 3 - Medium						I
Happy Garden Chinese		1000		1000	1				1	Category 3 - Medium						
Harb's Pizza & Deli		30	30		1				1	Catagory 3 - Medium					 	+
Hard Knox Pizza		50	50	1000	1				1	Catagory 3 - Medium	4				 	+
Hardee's #1501786 (2919 Tazewell) Hardee's #1501798 (3318 Chapman)		1000 1000		<u>1000</u> 1000	3		1	2	1	Catagory 3 - Medium Catagory 3 - Medium	1				<u> </u>	+
Hardee's #1501798 (3318 Chapman)		1000		1000	1				1	Catagory 3 - Medium					<u> </u>	+
Hardee's #1501837 (3718 Western)		1000		1000	2		1		1	Catagory 3 - Medium	1				<u> </u>	t
Hardee's #1501785 (3926 Asheville)		1000		1000	1				1	Category 3 - Medium	•					t
Hardee's Restaurant (7201 Kingston Pk.)		1500		1500	2			1	1	Catagory 3 - Medium		1				Ť
Harvest Echo Ridge Retirement Residence LLC		1500		1500	1				1	Catagory 3 - Medium						T
Head Start (Prospect)		1000		1000	1		1			Catagory 3 - Medium						I
Hemphill's Market & Deli		10	10		1				1	Category 4 - Low					 	+
Heritage Assisted Living		1000		1000	2				2	Category 3 - Medium					 	+
Hibachi Factory (1815 Cumberland) Hibachi Factory (1645 Downtown West)		20 60	20 60		1				1	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	+
Hillcrest Health Care North		2000, 500	60		2			1	1	Catagory 3 - Medium					├ ────	+
Hillcrest South		*2000, 500		2000	1			1	1	Catagory 3 - Medium					<u> </u>	t
Hillcrest West		1500		1500	1				1	Catagory 3 - Medium						Ť
Ho Ho Chinese Restaurant		20, 20	20, 20		1				1	Catagory 3 - Medium						Ť
Hogan's Bakery		30	30		1				1	Catagory 3 - Medium						Ī
Holiday Inn Central (1315 Kirby Road)		1000		1000	1				1	Catagory 3 - Medium						
Holly's Eventful Dining		1000		1000	1	1				Category 3 - Medium					 	4
Holston Healthcare		1000		1000	1		1			Catagory 3 - Medium					 	4
Holston Hills Country Club Holston Middle School		1000 1500		1000 1500	1		1			Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	+
Holy Ghost Catholic Church		150, 50	150, 50	1500	2		2			Category 4 - Low					2	t
Holy Land Market		50	50		1		2		1	Catagory 3 - Medium						$^+$
Homewood Residence at Deane Hill		1000	00	1000	1				1	Catagory 3 - Medium					<u> </u>	t
Honey Baked Ham #2 (5308 Washington)		1500		1500	1				1	Category 4 - Low						Ť
Honey Baked Ham (7205 Kingston Pk.)		1000		1000	1				1	Category 4 - Low						T
Hong Kong House		1000		1000	2			1	1	Catagory 2 - High		1				I
Hooter's #2 (5005 Central Ave. Pk.)		1500		1500	1				1	Catagory 3 - Medium					<u> </u>	ļ
Hooter's Restaurant (8050 Kingston Pk.)		1000		1000	1				1	Catagory 3 - Medium	ļ				 	4
House Of Dragon		20	20	4000	1				1	Catagory 3 - Medium	<u> </u>				 	╀
House of Thaller	+	1000	40	1000	1		4		1	Catagory 3 - Medium					 	╀
I Love N Y Pizza Ingles		40 1000	40	1000	1		1	1	2	Catagory 3 - Medium Catagory 3 - Medium	1				<u> </u>	ł
Ingles Inskip Community Pool	Х	*-	*_	1000	3	ļ	1	· ·	۷	Category 3 - Nedium Category 4 - Low						+
Inskip Elementary	~	1000	-	1000	1		1		1	Catagory 3 - Medium	<u> </u>	<u> </u>			<u> </u>	t
Inskip Food Mart	1	50	50	1000	1		-		1	Catagory 3 - Medium		1				t
Inskip Grill		40	40		1	1				Category 3 - Medium						t
L - I - ···	1		.•			•		1	1		1	1	1 1		·	щ

Comments
Business is closed.
Internal trap on dishwasher. No place for GI to be installed.
Business is closed.
Proposed business for location.
New FSF.
Business is closed.
Business is closed.
*FOF has a succeeded as a second second second
*FSF has exceeded grease trap size requirement.
*FSF has exceeded grease trap size requirement.
New FSF.
FSF installed grease traps during kitchen remodeling.
No food production at facility.
New FSF.

Facility Name	Inactive	Trap / Interceptor	Tran Size	Interceptor Size	Total	Initial	Repeat	Follow up	Trap	Risk	Inspection	NONC	NOV	SNC	Traps	I
	FSFs	-	Required	Required			-	Inspections	•		-				Installed	
International House of Pancakes (7218 Kingston Pk.)		2000		2000	2			1	1	Catagory 3 - Medium	1					
International House of Pancakes #1 (5604 Merchants)		1000		1000	1				1	Catagory 3 - Medium					ļ	
It's All About The Fudge	Х	20	20		1				1	Category 4 - Low					ļ	1
Jack' Breeze Thru Market	Х	40	40		1				1	Catagory 4 - Low					<u> </u>	+
Jacob's Time-Out Deli		40	40	0000	1	4			1	Catagory 3 - Medium						+
Jason's Deli Jets Pizza		2000	50	2000	1	1			1	Category 3 - Medium					1	+
Jimmy John Gourmet Sand.		50 40	50 40		1 2			1	1	Catagory 3 - Medium Catagory 3 - Medium		1				+
Jimmy's Original Southern Pub		20	20		1			I	1	Category 4 - Low					·	╉
John T. O'Connor Senior Citizens Center	X	40	40		1				1	Category 4 - Low						t
Judy Ann's Deli	~	20	20		3	1	1		1	Category 3 - Medium					[t
Judy's II Lounge & Restaurant	Х	1000		1000	1				1	Category 4 - Low						t
Kanpai of Tokyo		1500		1500	1				1	Catagory 3 - Medium						Ť
Kat's Sports Bar		20	20		1		1			Catagory 3 - Medium						Ť
Kaya Korean Restaurant		50	50		1				1	Catagory 3 - Medium						T
Kay's Ice Cream		30	30		1				1	Catagory 3 - Medium						Ι
Kenjo Market #11 (1400 N. Central)		40	40		1		1			Catagory 3 - Medium						
Kenjo Market #12 (3644 Sevierville)		40	40		1				1	Catagory 3 - Medium					ļ	1
Kenjo Market #30 (6519 Chapman)		30	30		1				1	Catagory 3 - Medium	ļ	ļ			 	4
Kenjo Market #31 (3120 Chapman)	ļ	30	30	1=00	1		1			Catagory 3 - Medium					 	1
KFC (1030 Shurmard)		1500		1500	1				1	Catagory 3 - Medium						4
KFC (2918 N. Broadway)	ł	1000		1000	1		1			Catagory 3 - Medium					 	┦
KFC (2456 Magnolia)		1000					•			Catagory 3 - Medium					┝────	-
KFC (5266 Millertown) KFC (4419 Western)		1500 1500		1500 1500	1 2		1	1	1	Catagory 3 - Medium Catagory 3 - Medium	1					+
KFC (4419 Western) KFC (4200 Chapman)		1500		1500	1		1	I	1	Catagory 3 - Medium	1					+
Kichi Sushi & Noodle		50	50	1500	2		1		1	Catagory 3 - Medium						t
Kids Inkorporated		30	30		1		1		1	Category 4 - Low						t
Kids Place-Camp		40	40		1				1	Catagory 3 - Medium						t
King Tut's Grill		40	40		1		1			Catagory 3 - Medium						t
Kings Market (1542 Texas Ave.)		40	40		2			1	1	Catagory 3 - Medium		1				Î
King's Market # 2 (1300 Baxter)		30	30		1				1	Catagory 3 - Medium						Ť
Kitts Market Cafe		1500		1500	2			1	1	Catagory 3 - Medium	1					1
Kiwanis-East II Head Start		1000		1000	1				1	Catagory 3 - Medium						Ī
Knotheads Café and Deli		40	40		4	1		3		Category 3 - Medium					1	
Knox Area Rescue Ministries		3000		3000	1		1			Catagory 3 - Medium					ļ	_
Knox County Detention Facility		1500		1500	2		1		1	Catagory 3 - Medium					<u> </u>	_
Knox-Knox County-CAC Head Start- Claxton		1000		1000	1	1				Category 3 - Medium					1	_
Knoxville Adaptive Education Center		1500		1500	1				1	Catagory 3 - Medium					┝────	_
Knoxville Billiards		20	20	4500	1		1		0	Catagory 3 - Medium					 	+
Knoxville Center Mall Knoxville Chinese Christian Church		1500 1000		1500 1000	4 2		2		2	Catagory 3 - Medium Catagory 3 - Medium						+
Knoxville Coliseum		20	20	1000	<u> </u>				<u> </u>	Category 4 - Low						+
Knoxville College Cafeteria		60	60		2			1	1	Catagory 3 - Medium	1					t
Knoxville Convention Center (Concession Kitchen)		50	50		1			1	1	Catagory 3 - Medium	-				[1
Knoxville Convention Center (Main Kitchen)		1500, 1500	00	3000	1				1	Catagory 3 - Medium					[1
Knoxville Elks Lodge #160		40	40		1				1	Category 4 - Low						t
Knoxville Expo Center		1500, 40			1				1	Category 3 - Medium						Ť
Knoxville Golf Course		40	40		1				1	Category 4 - Low						Ť
Knoxville Hilton		250	250		1				1	Catagory 3 - Medium						1
Knoxville Pearl	Х	*-	*-		1				1	Category 4 - Low						
Knoxville Racquet Club	Х	40	40		1				1	Catagory 4 - Low						
Knoxville Zoological Gardens		500, 40			1				1	Category 4 - Low					ļ	_
Knoxville-Knox County ActionCommunity Mobile Meals		*1500, 1500		2000	1				1	Catagory 3 - Medium					ļ	_
Koi Fuzion		100, 100	100, 100		2			1	1	Catagory 2 - High		1			 	4
Korea House Restaurant		40	40		1				1	Catagory 3 - Medium						4
Krispy Kreme (6201 Kingston Pk.)		1500		1500	1		1			Catagory 3 - Medium					┝────	_
Krispy Kreme #55 (4842 N. Broadway)		1000	40	1000	1		4		1	Category 3 - Medium						+
Kroger (4414 Asheville) Kroger # 506 (2217 N. Broadway)		1000, 40	40 50	1000	1		1			Catagory 3 - Medium						╡
	X	50 40	50 40		1		1			Catagory 3 - Medium						┦
Kroger # 516 (5003 N. Broadway) Kroger # 848 (4918 Kingston Pk.)	^	40	40	1000	1				1	Category 4 - Low Catagory 3 - Medium	<u> </u>	<u> </u>			·	-
Kroger # 870 (4440 Western)		20	20	1000	1				1	Catagory 3 - Medium Catagory 3 - Medium						-
Kroger #531 (4409 Chapman)		1500	20	1500	1		1			Catagory 3 - Medium						┦
Kroger (5201 N. Broadway)	1	1500		1500	1		1			Catagory 3 - Medium					[┦
Krystal # 13 (3910 Western)	1	1000		1000	1		· ·		1	Catagory 3 - Medium	1	1			·	1
Krystal # 6 (5219 Clinton)		1500		1500	1				1	Catagory 3 - Medium						t
,	1						1	1			1	I	ıl			1

Comments
Pusinees is closed
Business is closed. Business is closed.
FSF installed new larger grease trap, increased capacity.
New FSF.
No food production of fooility
No food production at facility. New FSF.
Business is closed.
FSF installed new trap due to enforcement.
New FSF.
No food production at facility. No food production at facility.
no rood production at facility.
*FSF has exceeded grease trap size requirement.
Purcipage is alonged
Business is closed.

Facility Name	Inactive	Trap / Interceptor		Interceptor Size	Total	Initial	Repeat	Follow up	Trap	Risk	Inspection	NONC	NOV	SNC	Traps
	FSFs		Required		Inspections	Inspections	Inspections	Inspections	Inspections		Letters	Letters	Letters	Letters	Installed
Krystal # 7 (4100 Chapman)		1000		1000	1		1			Catagory 3 - Medium					
Krystal #4 (2815 N. Broadway) Krystal #KNXF14 (5320 Millertown)		1000 1000		1000 1000	2		2			Catagory 3 - Medium Catagory 3 - Medium					<u> </u>
Krystal Co. #14 (7215 Strawberry Plains)		1000		1000	1		1			Catagory 3 - Medium					<u> </u>
Krystal Co. #2 (1718 Cumberland)		1000		1000	1				1	Catagory 3 - Medium					
K-Town Kebabs	Х	40	40		2		1		1	Catagory 4 - Low					
Kurt's		60	60		2			1		Catagory 3 - Medium		1			
La Costa		40	40		1				1	Catagory 3 - Medium					
La Esperanza Market #1 (2412 Washington)		40	40		1		1			Catagory 3 - Medium					
La Esperanza Market #2 (2525 Chapman)	X	40	40		1		1			Catagory 4 - Low					
La Espreranza Market #3 (4329 Lonas) La Fiesta Mexican Grill	Х	20 1000	20	1000	2		2			Catagory 4 - Low Catagory 3 - Medium					<u> </u>
La Flor Mexican Bakery		40	40	1000	1		2		1	Category 4 - Low					<u> </u>
La Huasteca Market & Restaurant		40	40		2	1	1		•	Category 3 - Medium					<u> </u>
La Depalma De Oro		100, 50	100, 50		1	1				Category 2 - High					
La Rumba Restaurante & Bar		1500		1500	2		2			Catagory 3 - Medium					
Lakeshore Mental Health Institute		200	200		1				1	Catagory 3 - Medium					
Lance's Cafe (Ford Dealership)		60	60		1				1	Catagory 3 - Medium					
Las Cazeulitas	Х	1500		1500	1		1			Catagory 4 - Low					
Laurel Mountain Eatery Le Parigo Restaurant		50 1000	50	1000	1 2			1	1	Catagory 3 - Medium Catagory 3 - Medium		1			
Le Parigo Restaurant Lema's	Х	40	40	1000	2 1			1		Category 4 - Low		1			<u> </u>
Lenny's Sub Shop (4622 Kingston Pk.)	Λ	40	40		1				1	Catagory 3 - Medium					<u> </u>
Lenny's Sub Shop (522 Gay St.)		*6500	50		3	1				Category 4 - Low					<u> </u>
Lenny's Sub Shop (6631 Clinton Hwy.)	Х	40	40		1		1			Catagory 4 - Low					
Lenny's Sub Shop (2901 Tazewell)		40	40		1		1			Catagory 3 - Medium					
Level 10	Х	2000		1500	1					Catagory 4 - Low					
Little Caesars Pizza (2800 Magnolia)		1000		1000	1					Catagory 3 - Medium					
Little Caesars Pizza #052006 (4434 Western)		30	30		1					Catagory 3 - Medium					
Little Caesar's Pizza #2803 (4322 N. Broadway)		20	20		1				1	Catagory 3 - Medium					
Little Caesar's Pizza #2808 (4748 Centerline) Litton's Market & Restaurant		20 2000, 100	20 100	2000	1 3		3		1	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>
Long John Silver's (5227 Clinton Hwy.)	Х	1000	100	1000	1		5		1	Category 4 - Low					<u> </u>
Long John Silver's (2816 Magnolia)	Λ	1000		1000	1		1		•	Catagory 3 - Medium					
Long John Silver's (4833 N. Broadway)		1500		1500	1				1	Catagory 3 - Medium					
Long John Silver's (4416 Western)	Х	1000		1000	2			1	1	Catagory 4 - Low		1			
Long's Drug Store		40	40		1					Catagory 3 - Medium					
Lonsdale Elementary		1500		1500	5			4	1	Category 3 - Medium					1
Lorenas		20	20		1	1	0			Category 3 - Medium					
Los Lagos Bar & Grill Los Paisano's Mexican Restaurant		40 1000	40	1000	2		2			Catagory 3 - Medium Catagory 3 - Medium					<u> </u>
Los Faisanos Mexican Restaurant		30	30	1000	1	1			1	Category 3 - Medium					<u> </u>
Louis' Restaurant		1000	00	1000	1				1	Catagory 3 - Medium					<u> </u>
Love Kitchen		70	70		1				1	Catagory 3 - Medium					
Lunch Box (800 S. Gay)		50	50		1				1	Catagory 3 - Medium					
Lunch Box (1225 E. Wiesgarber)		40	40		1		1			Catagory 3 - Medium					
Lunch House		30, 15	30, 15		1		1			Catagory 3 - Medium					
Macleod's (1931 Cumberland)	Х	20	20		1					Catagory 4 - Low					
Magnolia Cafe Magnolia Cafeteria	Х	40, 10 1500		1500	2		1		1	Catagory 3 - Medium Catagory 4 - Low					
Magnolia Caretena Magnolia Provisions	^	1000, 1000		2000	2		I		2	Category 3 - Medium					<u> </u>
Magnuson's Hotel Restaurant		40	40	2000	1					Catagory 3 - Medium					<u> </u>
Magpies		1500		1500	1					Category 4 - Low					
Mahogany's		100	100		1				1	Catagory 3 - Medium					
Mainstay Suites	Х	*-	*-		1				1	Category 4 - Low					
Makino		1000		1000	1				1	Catagory 3 - Medium					
Malibu 7 Restaurant & Dance		40	40	4000	1		1			Catagory 3 - Medium	<u> </u>				
Mandarin House (314 Merchants)	V	1000	├	1000	2		0	1	1	Catagory 3 - Medium	1				
Mandarin House Restaurant (8111 Gleason) Manhattan's Antiques Bistro & Bar	X X	1000 40	40	1000	3		2			Catagory 4 - Low Catagory 4 - Low					<u> </u>
Marble Slab (14 Market Square)	^	40 50	40 50		2			1	1	Catagory 3 - Medium		1			
Marble Slab (14 Market Square) Marble Slab (4885 N. Broadway)		40	40		1				1	Catagory 3 - Medium		-			<u> </u>
Marble Slab (4835 Kingston Pk.)		40	40		1					Catagory 3 - Medium					
Marble Slab #2 (7600 Kingston Pk.)		30	30		2			1		Catagory 3 - Medium	1				
Margarita's	Х	1000		1000	1		1			Catagory 4 - Low					
Market Square Kitchen		40	40		1				1	Catagory 3 - Medium					<u> </u>
Marriot Hotel (Hill Street Café)		200, 40	200, 40		3			3		Category 3 - Medium					1

Comments
Dusiness is sleeped
Business is closed.
Business is closed.
Business is closed.
New FSF.
New FSF.
Business is closed.
Business is temporarily closed
*exceeded grease trap size requirement, new FSF.
Business is closed.
Business is closed.
Dusiness is sleeped
Business is closed.
Business is closed for remodeling.
FSF installed grease trap under enforcement.
New FSF.
New FSF.
Business is closed.
Business is closed.
No food production at facility.
Business is closed. Business is closed.
Dusiness 15 00350.
Business is closed.
Facility installed new trap under enforcement.

Facility Name	Inactive	Trap / Interceptor	Trap Size	Interceptor Size	Total	Initial	Repeat	Follow up	Trap	Risk	Inspection	NONG	NOV	SNC	Traps	I
	FSFs	Size	Required				•	Inspections	•		-	Letters			-	
Marriott Hotel (Kitchen)		200, 40	200, 40		3			3		Category 3 - Medium					1	Ĩ
Martha's Place	Х	40	40		1		1			Catagory 4 - Low						
Mary's Deli	Х	40	40		4		1	2	1	Category 4 - Low					 	4
Maynard Elementary School		1500		1500	1				1	Catagory 3 - Medium	-				 	4
McAlister's #1126 (2758 Schaad Road) McAlister's #2 (232 Morrell)		1000 1000		<u>1000</u> 1000	1			-	1	Catagory 3 - Medium Catagory 3 - Medium					<u> </u>	+
McAlister's (1801 Cumberland)		1000		1000	2		1		1	Catagory 3 - Medium					<u> </u>	+
McDonald's (4410 Western)		1000		1000	2		•	1	1	Catagory 3 - Medium	1				<u> </u>	1
McDonalds # 3925 (322 Merchants)		1000		1000	1				1	Catagory 3 - Medium					[T
McDonalds #10662 (7402 Strawberry Plains)		1000		1000	1				1	Catagory 3 - Medium						T
McDonalds #11484 (6526 Chapman Hwy.)		1000		1000	1				1	Catagory 3 - Medium					L]
McDonalds #11600 (5055 N. Broadway)		1000		1000	1				1	Catagory 3 - Medium					 	4
McDonalds #1243 (7030 Kingston Pk.) McDonalds #2495 (1720 Cumberland)		2000 2000		2000 2000	1		1		1	Catagory 3 - Medium Catagory 3 - Medium					 	4
McDonald's #2495 (1720 Cumberland) McDonald's #264 (2812 Magnolia)		1000		1000	1		1	-		Catagory 3 - Medium					├ ───	+
McDonalds #27127 (7686 Northshore)		1000		1000	1		1		1	Catagory 3 - Medium						+
McDonalds #288 (3120 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium						1
McDonalds #392 (2505 Chapman)		1000		1000	1		1			Catagory 3 - Medium					[1
McDonalds (3051 Kenzel Road)		2000		2000	1		1			Catagory 3 - Medium						Ī
McDonalds (5260 Millertown)		1000		100	1		1			Catagory 3 - Medium						
McDonald's (206 Walker Springs)	~	2000		2000	1				1	Catagory 3 - Medium					───	4
McDougal's Chicken	Х	1000	50	1000	1				1	Catagory 4 - Low	-				 	4
Melissa's Ice Cream Mellow Mushroom		*1500 1000	50	1000	1		1		1	Catagory 4 - Low Catagory 3 - Medium					<u> </u>	+
Melting Pot		40, 30	40, 30	1000	1			-	1	Category 2 - High					├ ───	+
Mer-Mer's Bakery		40, 30	40, 30		1				1	Catagory 3 - Medium					<u> </u>	+
Mi Pubelo		60	60		1				1	Catagory 3 - Medium					<u> </u>	1
Mickey's	Х	40	40		1		1			Catagory 4 - Low						1
Micko's	Х	*-	*-		1				1	Category 4 - Low						1
Middlebrook Market & Deli		40	40		1				1	Catagory 3 - Medium						Ī
Mike's Deli		40	40		2			2		Catagory 3 - Medium					1	
Misaki Japanese Steak House		2000		2000	2			1	1	Catagory 3 - Medium		1			 	_
Moe's Southwest Grill		30	30		1				1	Catagory 3 - Medium					<u> </u>	_
Mojoes Trailside Coffee House Mom's Kitchen		40	40 40		1	1				Category 3 - Medium Category 3 - Medium					1	4
Monterrey Mexican Restaurant		1000	40	1000	1	1			1	Catagory 3 - Medium					<u> </u>	+
Mooreland Heights Elementary		25	25	1000	1				1	Catagory 3 - Medium					<u> </u>	+
Mount Olive Elementary		800	20	800	1				1	Catagory 3 - Medium					<u> </u>	1
Mr. Gattis #610		40	40		2			1	1	Category 2 - High		1				1
Mrs Goodstuff's Cafe and Market	Х	40	40		3		2		1	Category 4 - Low						1
Ms. Daisy Place	Х	50	50		1		1			Category 4 - Low						Ι
Ms. D's Restaurant		30	30		1				1	Catagory 3 - Medium						
Mt. Olive Baptist Church DCC		*1000, 1000		1500	2		2			Catagory 3 - Medium					 	_
My Village CDC		50	50		1		1	4	4	Catagory 3 - Medium	4				 	4
Nagoya Express Japanese Grill Nama Sushi Bar (Gay Street)		30 100	30 100		2			1	1	Catagory 3 - Medium Catagory 3 - Medium	1				<u> </u>	_
Nama Sushi Bar (Kingston Pk.)		1000	100	1000	1			1	1	Catagory 3 - Medium					<u> </u>	-
Naples Italian Restaurant		1000		1000	1				1	Category 3 - Medium					<u> </u>	-
Napoli Pizza & Grill		30	30	1000	5		2	3	•	Category 3 - Medium					<u> </u>	-
New Amsterdam Bar & Grill		50, 40	50, 40		1				1	Category 3 - Medium						1
New China Restaurant		30, 30	30, 30		1				1	Catagory 3 - Medium						1
NHC Healthcare of Ft. Sanders		*2000, 1000		2000	1				1	Catagory 3 - Medium						
Night Owl Deli		75, 40	75, 40		1				1	Category 3 - Medium					1	
Nixon's Deli (5118 N. Broadway)		40	40		1				1	Catagory 3 - Medium					 	_
Nixon's Deli (5716 Kingston Pk.)		40	40		1			-	1	Catagory 3 - Medium	-				 	_
Nixon's Deli (508 Merchants) Nixon's Deli (7419 Middlebrook)		30	30	1500	1				1	Catagory 3 - Medium					┝────	+
North Hills Baptist Church	X	1500 *-	*_	1500	1	1		<u> </u>	1	Catagory 3 - Medium Category 4 - Low	+					┥
Northhaven Healthcare	^	2000		2000	1	1			1	Category 4 - Low Catagory 3 - Medium					<u> </u>	┥
Northwest Middle	+	1000		1000	1				1	Catagory 3 - Medium	+	1			<u> </u>	┥
Norwood Elementary		1500		1500	1	1	1	1	1	Catagory 3 - Medium		1				-
Oasis Buffet	1	35, 25			1				1	Catagory 3 - Medium	1	1				1
O'Charley's #208 (8077 Kingston Pk.)		1000		1000	2			1	1	Catagory 3 - Medium	1	1			[1
O'Charley's #361 (3050 S. Mall)		1500		1500	1				1	Catagory 3 - Medium						j
O'Charley's # 217 (117 Cedar Lane)		1000		1000	1				1	Category 3 - Medium					L	
Okee Dokee Market/ Dairy Queen		1000, 40	40	1000	1			ļ	1	Category 4 - Low					<u> </u>	
Old City Java	1	40	40		1	1	1		1	Category 4 - Low	1	1			1	

• ·
Comments
Facility installed new trap under enforcement. Business is closed.
Business is closed.
Business is closed.
*FSF has exceeded grease trap size requirement.
Internal trap on the dishwasher. No place for GI to be installed.
Durain and in terms are site along al
Business is temporarily closed. No food production at facility.
No lood production at lacility.
FSF installed new grease under enforcement.
Tor installed new grease under enforcement.
New FSF.
New FSF. New FSF.
New FSF.
New FSF. FSF has internal trap on the dishwasher.
New FSF. FSF has internal trap on the dishwasher. Business has closed.
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New FSF. FSF has internal trap on the dishwasher. Business has closed. *FSF has exceeded grease trap size requirement. *FSF has exceeded grease trap size requirement.
New FSF. FSF has internal trap on the dishwasher. Business has closed. Business has closed. *FSF has exceeded grease trap size requirement. *FSF has exceeded grease trap size requirement. No food production at facility.

		Trap /		Interceptor			-		_						_
Facility Name	Inactive FSFs	Interceptor Size	Trap Size Required	Size Required	Total	Initial	Repeat	Follow up Inspections	Trap	Risk Rating	Inspection Letters			SNC	Traps Installed
Old College Inn	FSFS	1000, 20	20	1000	Inspections	Inspections	Inspections	Inspections	Inspections	Catagory 3 - Medium	Letters	Letters	Letters	Letters	Installed
Olive Garden Restaurant #92		1000, 20	20	1000	2		2			Catagory 3 - Medium	+			/	
Olivet Baptist Church		1000		1000	1				1	Catagory 4 - Low					
Ollantay's Havana Nights	Х	40	40		3		1	1	1	Catagory 4 - Low					
One Tree Grille		1500		1500	1	1				Category 3 - Medium					
Oodles Restaurant		40	40		3			2	1	Catagory 2 - High		1	1		
Orange Sports Grill	Х	1000		1000	2			1	1	Catagory 4 - Low	1			 	
Oriental Express		40, 10	40, 10		2		1	1		Catagory 3 - Medium				ا ا	
Osaka Hibachi & Sushi		1500		1500	2		1		1	Category 3 - Medium		<u> </u>		ا ا	
Oscar's Restaurant (6907 Kingston Pk.)	Х	30	30		3		2	ļ'	1	Catagory 4 - Low				ا ا	
Oscar's Restaurant (1840 Cumberland)		30, 30	30, 30		1				1	Catagory 3 - Medium		ļ!	 	·'	<u> </u>
Our Place		10	10		2			1	1	Category 3 - Medium	+	ļ!		·'	L
Outback Steakhouse #2 (7400 Sawyer Lane)		*1500, 1500	┥───┤	2000	1			 '	1	Catagory 3 - Medium	+	\square	$ \longrightarrow $!	<u> </u>
Outback Steakhouse #4317 (314 Merchants) Panasonic Electronic Devices Corporation	X	1000	30	1000	3		2	'	1	Catagory 3 - Medium		ļ/	┝──┤	!	
Panasonic Electronic Devices Corporation Panda's Chinese Restaurant	X	30 40, 40	30 40, 40		1			·	1	Catagory 4 - Low			<u> </u>		<u> </u>
Panda's Chinese Restaurant Panera Bread (4855 Kingston Pk.)		40, 40	40, 40	1000	1			'	1	Catagory 3 - Medium Catagory 3 - Medium			$ \longrightarrow $	ļ	
Panera Bread (4893 N. Broadway)		2000		2000	1			'	1	Catagory 3 - Medium	+		┝──┤	J	
Panera Bread (2000 Cumberland)		1000	╂────┦	1000	1		1	 '	· ·	Catagory 3 - Medium	+	┝───┦	┝───┤	J	<u> </u>
Papa John's Pizza (2901Tazewell)		40	40	1000	1		1	[']	<u> </u>	Catagory 3 - Medium	+				
Papa John's Pizza (5617 Western)		40	40		1		1	[']	1	Catagory 3 - Medium	+				
Papa John's Pizza (1819 Lake Ave.)		100	100		1			1	<u> </u>	Catagory 3 - Medium	+		\vdash	/	
Papa John's Pizza (7038 Kingston Pk.)		40	40		1			<u> </u>	1	Catagory 3 - Medium	+		\vdash	/	
Papa Murphy's Pizza (4409 Chapman)		40	40		1		1			Category 3 - Medium	+	<u>├</u> ──┤	┝───┤		<u> </u>
Papa Murphy's Pizza (5214 N. Broadway)		40	40		1		1	'	1	Catagory 3 - Medium	+		\vdash	/	
Papa Murphy's Pizza (4801 Kingston Pk.)		40	40		1			'	1	Catagory 3 - Medium	+		\vdash	/	
Papa Murphy's Pizza (6631 Clinton)		50	50		1		1		· ·	Catagory 3 - Medium	+	┢───┤	├ ──┤	Į	
Parkridge Harbor		1500		1500	2				2	Catagory 3 - Medium	+	┢───┤	├ ──┤	Į	
Parkview Independent Living		1000	1 1	1000	1				1	Catagory 3 - Medium	+		├ ──┤	Į	<u> </u>
Patrick Sullivans Steakhouse		40	40	1000	2		1		1	Catagory 3 - Medium	+		├ ──┤	Į	<u> </u>
Pauline's		1000	10	1000	2		2			Catagory 3 - Medium	+			Į	<u> </u>
Paul's Oasis		40	40		1		_		1	Catagory 3 - Medium	+			Į	<u> </u>
Pelancho's Mexican Grill		1000		1000	1				1	Catagory 3 - Medium	-				
Penn Station Subs		40	40		1		1			Catagory 3 - Medium					
Pete's Coffee Shop		1500		1500	1				1	Catagory 3 - Medium					
Petro's Chili & Chips (800 S. Gay)		50	50		1				1	Catagory 3 - Medium					
Petros Chili & Chips # 502 (7005 Kingston Pk.)		40	40		1				1	Catagory 3 - Medium					
Petros Chili & Chips #1 (7600 Kingston Pk.)		30	30		2		1		1	Catagory 3 - Medium				i	
Petros Chili & Chips #2 (3001 Knoxville Center)		40	40		2		1		1	Catagory 3 - Medium				i	
PF Changs China Bistro Inc.		1000		1000	1				1	Catagory 3 - Medium					
Phatz Sports Bar & Grill	Х	1000		1000	1		1			Catagory 3 - Medium					
Philippine Connection Carry Out		40	40		1		1			Catagory 3 - Medium					
Philippine Egg Roll Express		50	50		2	1			1	Category 3 - Medium				1	
Pilot # 187 (100 Merchants)		40	40		2		1		1	Catagory 3 - Medium				1	
Pilot # 244 (2218 Cumberland)		50	50		1			1		Category 4 - Low				, ,	
Pilot #217 (4800 N. Broadway)		40	40		1				1	Category 4 - Low				ا ا	
Pilot #166 (4603 Chapman)		40	40		1					Catagory 3 - Medium				ا ا	
Pimentos		1500		1500	1				1	Catagory 3 - Medium				ا ا	
Pita Pit	Х	1500	ļ	1500	1		1	 '	 	Catagory 4 - Low		Ļ'		ا ا	L
Pizza Hut #12621 (212 Cedar Lane)	_	1000	ļ	1000	1			 '	1	Catagory 3 - Medium	───	Ļ'		ا 	L
Pizza Hut #12628 (5701 Western)		40	40		2			1	1	Catagory 3 - Medium	1	↓ '	\mid	, 	
Pizza Hut #12632 (2405 Chapman)		40, 30	40, 30		1		1	 '	 	Catagory 3 - Medium		<u> </u>	\mid	ا ا	└───
Pizza Hut #13026 (7017 Kingston Pk.)		40	40		2			1	1	Catagory 3 - Medium	_	1	↓]	ا ا	└───
Pizza Hut (5338 Millertown)	_	40	40		2		1	 '	1	Catagory 3 - Medium		<u> </u>	\mid	·'	───
Pizza Hut (4100 Asheville)	_	40	40		2		1	l'	1	Catagory 3 - Medium		ļ!	 	,'	───
Pizza Inn		1000		1000	1				1	Category 3 - Medium		ļ!		!	
Pizza Palace		50	50		1		1	ł'	ł	Catagory 3 - Medium	+	└────′	↓	·'	──
Pizza Plus		30	30	4500	1		1	 '	<u> </u>	Catagory 3 - Medium	+	└───┘	┝──┤	·'	───
Pleasant Ridge Elementary		1500	40.40	1500	1			 '	1	Catagory 3 - Medium	+	└── ′	↓	,!	┣────
Plum Tree Restaurant	V	40, 40	40, 40		1			 '	1	Catagory 3 - Medium	+	└── ′	↓	,!	┣────
PM's Lounge	X	40	40	0000	1			 '	1	Category 4 - Low	+	└── ′	↓	,!	┣────
Pond Gap Elementary		2000		2000	1			 '		Catagory 3 - Medium	+	└───┘	┝──┤	·'	───
Pride & Joy Children's Academy		40	40	4500	1			 '	1	Catagory 3 - Medium	+	└───┘	┝──┤	·'	───
Puleo's Grille (242 Morrell)		1500, 1500	┥───┤	1500	1			 '	1	Catagory 3 - Medium	+	└── ′	┟───┤	·'	───
Puleo's Grille (110 Cedar Lane)		1500	↓	<u>1500</u> 1000	1		1	 '	1	Catagory 3 - Medium Catagory 3 - Medium	+	┟───┘	┝───┦	!	───
Dulasia Orilla (7004 Derriera)							1						1 1	, ,	1
Puleo's Grille (7224 Region) Pup's Pit BBQ		1000 50	50	1000	1		1		1	Catagory 3 - Medium			├─── ┤	·	

Comments
FSF has new gym and started preparing food.
Business is closed. New FSF.
Internal trap on dishwasher & compliance issues with maintenance
Business is closed.
Business is closed.
*FSF has exceeded grease trap size requirement.
Business is closed.
Business is closed.
New FSF.
Business is closed.
New FSF.
Business is closed.

		Trap /		Interceptor											
Facility Name	Inactive FSFs	Interceptor Size	Trap Size Required	Size Required	Total Inspections	Initial Inspections	Repeat Inspections	Follow up	Trap Inspections	Risk Rating	Inspection Letters		NOV Letters	SNC Letters	Traps Installed
Qdoba Mexican Grill	1013	1500	Required	1500	1	mopeonono	mopeonomo	mopeotions		Catagory 3 - Medium	Lotters	Letters	Lottors	Lotters	motaneu
Quaker Steak & Lube		1000	1	1000	2		1	1		Catagory 3 - Medium	1				
Quality Bakers		200	200		1		1			Catagory 3 - Medium					[†
Quality Inn		40	40		4		3	1		Catagory 3 - Medium					(
Quizno's Subs		20	20		1				1	Category 3 - Medium					
Rainbow Club West		20	20	1000	1				1	Catagory 3 - Medium					
Rallys Hamburger		1000		1000	1		1			Catagory 3 - Medium					ļ!
Ramada Inn		20	20		1				1	Catagory 3 - Medium					ļ!
Ramsey's Restaurant		1500		1500	3		2	1		Category 3 - Medium					ļ!
Range House Restaurant		1000		1000	1	1				Category 3 - Medium					└────┘
Rankin Restaurant		1000		1000	1					Catagory 3 - Medium					ļ]
Ray's ESG		1000	20	1000	1		4		1	Catagory 3 - Medium					┢────┦
Red Fez Deli Express Red Lobster # 47 (8040 Kingston Pk.)		20 1500, 1500	20	2000	1		1		1	Catagory 3 - Medium Catagory 3 - Medium					├ ───┤
Red Lobster #253 (305 Merchants)		1500, 1500		1500	1				1	Catagory 3 - Medium					<u>├</u> ───┤
Red Onion Pizza & Sub		30	30	1300	1					Catagory 3 - Medium					
Red Roof Inn	Х	*-	*-		1					Category 4 - Low					┝────┦
Redemption Church	X	40	40		1					Category 4 - Low					
Regal Cinemas (510 S. Gay)		50	50		1				1	Catagory 3 - Medium					├ ───┤
Regal Cinemas (7600 Kingston Pk.)		40, 40	40, 40		2			1	1	Catagory 3 - Medium	1				
Regal Theatre		14	14		1		1			Catagory 3 - Medium					
Regas Restaurant	Х	2000		2000	1				1	Catagory 3 - Medium					[†
Richard Yoakley Elementary School		200	200		1		1			Catagory 3 - Medium					
Rick's Place		1000		1000	1				1	Catagory 3 - Medium					
Ridgedale Alternative School		40	40		1				1	Catagory 3 - Medium					
Rita's Bakery (3023 Tazewell)		1000		1000	1					Category 4 - Low					
Rita's Water Ice		40	40		1					Category 3 - Medium					ļ!
Rite Stop Food Mart		40	40		1				1	Catagory 3 - Medium					
Ritta Elementary School		800		800	1		1			Category 3 - Medium					└────┘
Riverside Market		20	20	1000	1					Category 4 - Low					ļ]
Rocky Hill Elementary		1000	40	1000	1				1	Catagory 3 - Medium					┟────┘
Rocky Top Market Rogers & Sons Market and Deli		40 1000	40 60		1		1		1	Catagory 3 - Medium Category 3 - Medium					┝────┦
Rogers & Sons Market and Dell Romano's Macroni Grill		1000	60	1000	1		1		1	Category 3 - Medium Catagory 3 - Medium					├ ───┤
Roosters		40, 40	40, 40	1000	1					Catagory 3 - Medium					┢────┦
Roundup Rest. & Ice Cream Parlor		40, 40	40, 40		1		1		1	Catagory 3 - Medium					<u>├</u> ───┤
Roux Barb		50	50		1				1	Catagory 3 - Medium					┢────┦
Rovale Bar	Х	*-	*-		1				1	Category 4 - Low					
Ruby Tuesday # 3131(2714 Chapman)	~	1500		1500	1		1			Catagory 3 - Medium					
Ruby Tuesday # 3977 (7600 Kingston Pk.)	Х	1500		1500	2		1	1		Category 4 - Low					
Ruby Tuesday #3767 (4834 N. Broadway)		1500		1500	1				1	Catagory 3 - Medium					(
Ruby Tuesday #4155 (750 Brakebill)		1500		1500	1				1	Catagory 3 - Medium					(
Ruby Tuesday's #4262 (6606 Clinton Hwy.)		1500		1500	2			1	1	Catagory 3 - Medium					
Ruth Chris Steakhouse		1000		1000	1					Catagory 3 - Medium					
S & S Cafeteria		200		1500	1					Category 2 - High					
S & W Grand Café	Х	*6500		2000	1					Category 4 - Low					1
Sacred Heart Cathedral		2000		2000	1					Catagory 3 - Medium					↓ ┘
Saint Joseph School Cafeteria		1500	10, 10	1500	1					Catagory 3 - Medium					└────┘
Sakkio Japan Salsarita's (5224 N. Broadway)		40, 40	40, 40	0000	4		2	1	1	Catagory 2 - High	1				ļ]
Salsarita's (5224 N. Broadway) Salsarita's (100 Jack Dance)		2000 2000		2000 2000	2		1	1	1	Catagory 3 - Medium Catagory 3 - Medium		1			├ ───┤
Salvation Army Kitchen		1000	ł – – – – – –	1000	<u> </u>			1		Catagory 3 - Medium		1			┢────┦
Sam & Andy's		30	30	1000	1		1		1	Catagory 3 - Medium					┢────┦
Sam E. Hill Elementary School		100, 50	100, 50		1		1			Catagory 3 - Medium					
Sam's Cafe		80	80		1		1			Catagory 3 - Medium					┢────┦
Sam's Club # 6572 (2920 Knoxville Center)		2000, 50	50	2000	2			1	1	Catagory 3 - Medium		1			
Sam's Club #8256 (8435 Walbrook)		1500		1500	1				1	Catagory 3 - Medium					├ ───┤
Sam's Restaurant and Deli	1	60	60		1					Catagory 3 - Medium					· −−−+
Sangria's Tapas Grill		75, 75	75, 75		2			1		Catagory 3 - Medium		1			(
Sapphire Restaurant		40	40		1				1	Category 2 - High					(ł
Sarah Moore Green Elementary		2000		2000	1		1			Catagory 3 - Medium					
Sarku		60	60		3		2			Catagory 3 - Medium					
Sassy Ann's		50	50		2				2	Catagory 3 - Medium					
Save A Lot (3840 Holston)		40, 40	40, 40		1		1			Catagory 3 - Medium					
Save A Lot (N. Broadway)		50	50		1				1	Catagory 3 - Medium					
Savelli's Deli		40	40		1					Catagory 3 - Medium					ļ [†]
Sawyer's (6914 Kingston Pk.)		1000		1000	1				1	Catagory 3 - Medium					

Comments
New FSF.
No food production at facility.
No food production at facility.
Business is closed.
Business is closed.
Business is closed.
FSF has undersized GI. *FSF exceeded grease trap size requuirement and is closed.
The exceeded grease trap size requiirement and is closed.
FSF has internal trap on dishwasher. No space for external GI.
י סי המש ווופרוומו וומף טון עושרוואמשוופו. ווע שמער וטו פאנפרוומו טו.

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Same DM South Grouph (Carry) 40 60 70 7 700	Facility Name		-	-				•		•					-
Schwarz Lath X A <t< td=""><td>Sbarro (3001 Knoxville Center)</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td>1</td><td></td><td> </td><td></td><td></td><td></td></t<>	Sbarro (3001 Knoxville Center)					•				1		 			
Some & Longing X P31 R1 vol i I I I Description Some & Longing in their Averations Stress - 240 - 1 Compare / Longing / Lon	Sbarro's (7600 Kingston Pk.)														
South Section South Se										2					
Songe Real Place R.D 40 40 41 Casegory 1. Advance 40		X	-												╞────
Sarde Construct Norma Assignma Southag 1 1 1 Charge (2, 1) and (2, 2) and				-											<u> </u>
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Sever testing Signific Chards Image Image <t< td=""><td>Serene Manor Hospital</td><td></td><td>1500</td><td></td><td>1500</td><td>1</td><td></td><td>1</td><td></td><td></td><td>Catagory 3 - Medium</td><td></td><td></td><td></td><td></td></t<>	Serene Manor Hospital		1500		1500	1		1			Catagory 3 - Medium				
Sharmondia FearrangeShore <t< td=""><td>Seventeenth Street Market & Deli</td><td></td><td></td><td>30</td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Seventeenth Street Market & Deli			30		1		1							
Shannonden keglin Code Stanson (Second Second										1					
Shorny at Jack Jack Jack Jack Jack Jack Jack Jack								1							
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Spring Hill Elementary 1000 1000 1 1 Catagory 3 - Medium Image: Catagory 3 - Medium St. John's Cathedral 1500 1500 1 1 Catagory 3 - Medium Image: Catagory				-						1					
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Starbucks Coffee (116 Merchants) 1500 1500 1 1 Catagory 3 - Medium 0 0 0 Starbucks Coffee (2017 Cumberland) 1500 1500 1 1 Catagory 3 - Medium 0 0 Starbucks Coffee # 836 (4924 Kingston Pk.) 1500 1500 1 1 Catagory 3 - Medium 0 0 0 Starbucks Coffee # 836 (4924 Kingston Pk.) 40 40 1 1 Catagory 3 - Medium 0 0 0 Starbucks Coffee # 81015 Volunter) X * * 1 1 Catagory 4 - Low 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td>						1		1		1					<u> </u>
Starbucks Coffee (2017 Cumberland) 1500 1500 1 1 Catagory 3 · Medium 1 1 Catagory 3 · Medium 1<						-		1		1					<u> </u>
Starbucks Coffee # 8536 (4924 Kingston Pk.) 1500 1 1 Category 3 · Medium Image: Control of the starbucks coffee # (501 Church) Mo 40 40 1 1 Category 3 · Medium Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X *- *- 1 Image: Control of the starbucks coffee # (501 Church) X X *- *- 1 Image: Control of the starbucks con										1					<u> </u>
Starbucks Coffee #1 (501 Church) 40 40 1 1 Catagory 3 · Medium 0 0 0 Starbuck's Coffee #3 (1015 Volunteer) X *- *- 1 1 Catagory 3 · Medium 0<	Starbucks Coffee # 8536 (4924 Kingston Pk.)														
Starbuck's Coffee #3 (1015 Volunteer) X *- *- 1 1 Catagory 4 - Low I I I Starbucks Coffee (7803 Montvue Drive) 1500 2 2 Catagory 3 - Medium I <td< td=""><td>Starbucks Coffee #1 (501 Church)</td><td></td><td>40</td><td>40</td><td></td><td>1</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></td<>	Starbucks Coffee #1 (501 Church)		40	40		1				1					
Steak Escape X 20 20 1 1 Category 4 - Low Image: Category 4 - Low Steak Out #2 (2038 N. Broadway) X 40 40 1 Image: Category 3 - Medium Image: Catego	Starbuck's Coffee #3 (1015 Volunteer)	Х	*-	*-		1				1					
Steak Out #2 (2038 N. Broadway)X404011Category 4 - Low1111Steamboat Sandwiches404033Category 3 - Medium111 <td>Starbucks Coffee (7803 Montvue Drive)</td> <td></td> <td></td> <td></td> <td>1500</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Starbucks Coffee (7803 Montvue Drive)				1500	2		2							
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Sterchi Elementary 1500 1500 1 Catagory 3 - Medium I I Catagory 3 - Medium I I I Catagory 3 - Medium I I I I Catagory 3 - Medium I		-						3							───
Stir Fry Cafe 60, 30 60, 30 1 Catagory 3 - Medium I I Stop N' Go Market 30 30 1 1 Catagory 3 - Medium I I Strike & Spare Bowling Center (3315 N. Broadway) 40 40 1 1 Catagory 3 - Medium I I Strike & Spare Bowling Center (5700 Western) 40 40 1 I Catagory 3 - Medium I I Subway (1325 N. Cherry) 40 40 1 I Catagory 3 - Medium I				150	1500										<u> </u>
Stop N' Go Market 30 30 1 Catagory 3 - Medium I I Catagory 3 - Medium I I I I I Catagory 3 - Medium I				60.20	1500	•				1		 			<u> </u>
Strike & Spare Bowling Center (3315 N. Broadway) 40 40 1 Catagory 3 - Medium 0 0 0 Strike & Spare Bowling Center (5700 Western) 40 40 1 1 Catagory 3 - Medium 0						-				1					<u> </u>
Strike & Spare Bowling Center (5700 Western) 40 40 1 Catagory 3 - Medium 0 0 Subway (1325 N. Cherry) 40 40 1 0 1 Catagory 3 - Medium 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td></td<>								1							<u> </u>
Subway (1325 N. Cherry) 40 40 1 Catagory 3 - Medium		1								1					
	Subway (1325 N. Cherry)	1		-											
	Subway (3317 Sutherland)		50	50		1				1					

Comments
Business is closed.
Business is closed.
*FSF has exceeded grease size requirement.
Business is closed.
No food production at facility.
No food production at facility.
No food production at facility. Business is closed.
GI maintenance problems in past.
New FSF, business is closed.
Business is closed. Undersized internal trap.
No food production at facility.
No food production at facility.
Business is closed. Business is closed.

Facility Name	Inactive		-	Interceptor Size	Total	Initial	Repeat	Follow up	Тгар	Risk	Inspection			SNC	Traps	I
Subway (4803 N. Broadway)	FSFs	Size 40	Required	Required	Inspections	Inspections	Inspections	Inspections	Inspections	Rating Category 3 - Medium	Letters	Letters	Letters	Letters	Installed	4
Subway (4403 N. Broadway) Subway (8445 Walbrook)		1000	40	1000	1		I		1	Category 3 - Medium					<u> </u>	+
Subway # 12 (#25 Market Square)		30	30	1000	1				1	Catagory 3 - Medium			┝───┦			+
Subway # 15024 (6217 Riverview)		40	40		1		1			Catagory 3 - Medium			├			-
Subway # 21 (7701 Northshore)		30	30		1				1	Catagory 3 - Medium						1
Subway # 23 (314 Merchants)		40	40		1				1	Catagory 3 - Medium				ł		1
Subway # 25 (2734 Schaad)		40	40		1				1	Catagory 3 - Medium						1
Subway # 4 (7327 Kingston)		40	40		2			1	1	Catagory 3 - Medium		1				1
Subway #1559 (3105 Alcoa)		30	30		1		1			Catagory 3 - Medium						1
Subway #16 (8605 Walbrook)		40	40		1				1	Catagory 3 - Medium						1
Subway #1711 (5201 Kingston Pk.)		20	20		1				1	Catagory 3 - Medium						1
Subway (4436 Western)		30	30		1				1	Category 3 - Medium				1		-
Subway (2625 N. Broadway)		30	30		1				1	Catagory 3 - Medium				l l		1
Subway (2104 Cumberland)		40	40		1		1			Catagory 3 - Medium				1		
Subway (3708 Chapman)		40	40		1		1			Category 3 - Medium				1		1
Subway (7300 Middlebrook)	Х	*-	40		1			1		Category 4 - Low						1
Subway (3001Knoxville Center)		30	30		2		1		1	Catagory 3 - Medium						
Subway (7600 Kingston Pk.)		40	40		1				1	Catagory 3 - Medium						
Subway (5501 Middlebrook)		40	40		1				1	Catagory 3 - Medium						1
Sullivans at Rocky Hill		1000		1000	2			1	1	Catagory 3 - Medium		1				
Sun Spot		40	40		1				1	Catagory 3 - Medium						
Sunnyview School		500		500	1				1	Catagory 3 - Medium						
Super Dollar Discount Foods		1000		1000	1		1			Category 3 - Medium						Ī
Super Mario		1500		1500	1				1	Catagory 3 - Medium						
Sutherland Deli		20	20		1				1	Catagory 3 - Medium						
Sysco Food Company		1000		1000	1				1	Catagory 3 - Medium						
Szechuan Garden		1000		1000	1		1			Catagory 3 - Medium						Ī
T Ho Restaurant	Х	30	30		1				1	Catagory 4 - Low						
T. J.'s Sports Bar & Grill	Х	15	15		2				2	Catagory 4 - Low						
T.G.I. Friday's		1000		1000	1				1	Catagory 3 - Medium						
Taco Bell #16310 (2085 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium						
Taco Bell #16498 (4854 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium						
Taco Bell #20467 (102 Bridgewater)		1500		1500	2			1	1	Catagory 3 - Medium		1		ļ!		
Taco Bell #20909 (7215 Strawberry Plains)		1000		1000	1		1			Catagory 3 - Medium						
Taco Bell #2302 (4413 Western)		1500		1500	1				1	Catagory 3 - Medium				ļ!		
Taco Bell #2379 (1900 Cumberland)		1000		1000	1		1			Catagory 3 - Medium				ļ'		
Taco Bell #4756 (6504 Chapman)		1000		1000	1		1			Catagory 3 - Medium						_
Taco Bell #9575 (7414 Kingston Pk.)		1000		1000	2			1	1	Catagory 3 - Medium		1				_
Taco Bell (5322 Millertown)		1000		1000	1		1			Catagory 3 - Medium				Ļ!		_
Taco Bell (3001 Knoxville Center)	Х	40	40		1		1			Catagory 4 - Low				L		_
Taco Bell (7600 Kingston Pk.)		40	40		4		3		1	Catagory 3 - Medium				L		_
Taco De Mexico		20	20		5		1	4		Category 3 - Medium				L!		_
Tamal Express		40	40		1	1				Category 3 - Medium				└─── !		_
Tapatios Mexican Restaurant		30	30		2				2	Catagory 3 - Medium			\mid	└─── ┘		_
Target		1500		1500	1				1	Category 3 - Medium				└─── ′	<u> </u>	_
Tate's Teenz & Tots		75	75		1				1	Catagory 3 - Medium			\mid	└─── ┘		_
TD Barbecue		40	40		2		1		1	Catagory 3 - Medium			\mid	µ!	───	_
Tea Time With Clara	X	*-	*-		1				1	Category 4 - Low				<u>ا</u>		_
Tekila Mexican Restaurant	X	1000		1000	1				1	Category 4 - Low			\mid	└─── ┘		_
Tekoa Lounge	Х	*-	*-		1				1	Category 4 - Low			\mid	µ!	───	_
Tennessee Riverboat Company		50	50		1				1	Catagory 3 - Medium			\mid	µ!	<u> </u>	_
Tennessee School For The Deaf		100, 100	100, 100		2				2	Catagory 3 - Medium				└─── ┘	1	_
		30	30	4500	1				1	Catagory 3 - Medium			\mid	µ!	───	_
Texas Roadhouse (120 Morrell)		1500		1500	1				1	Catagory 3 - Medium			\mid	µ!	───	_
Texas Roadhouse #5 (3071 Kinzel)	~	1500		1500	1		1			Catagory 3 - Medium			\mid	µ!		_
The Blue Bean	Х	20	20	1000	2		2			Category 4 - Low			\mid	µ!		_
The Broker	V	1000		1000	1				1	Catagory 3 - Medium			\vdash	ا	───	4
The Campus Deli	Х	30	30	4500	2				2	Catagory 4 - Low	}	ļ	\vdash	⊢−−− ′	───	4
The Crown & Goose Pub		1500		1500	1				1	Catagory 3 - Medium		ļ	\vdash	<u>ا</u> ــــــــــــــــــــــــــــــــــــ	───	4
The Cupcakery		50	50		1				1	Catagory 3 - Medium			\vdash		───	4
The French Market		50	50		1				1	Catagory 3 - Medium	ļ		\vdash	<mark>اــــــــــــــــــــــــــــــــــــ</mark>	───	_
The Fresh Market		1500		1500	1	ļ		ļ	1	Catagory 3 - Medium			\vdash	⊢−−− ′	───	_
The General Store Sub Express	Х	30	30		1				1	Catagory 4 - Low			\square	<u>ا</u>		
The Hill Restaurant		2000		2000	1		1			Category 4 - Low		ļ	\square	<u>ا</u>		
			1	1500		1		1	3	Catagory 1 - Unacceptable	1	1	1 1	<u>ر</u> ا	1	1
The Orangery		**40		1500	3				5				++	H		4
The Orangery The Original Freeze The Palor		**40 20 40	20 40	1500	3 1 1		1		5	Category 3 - Medium Category 3 - Medium						1

Comments
Remodeling has not started.
Business is closed.
Business is closed.
Business is closed.
New FSF.
Business is closed.
Business is closed. No food production at facility.
FSF replaced leaking trap, not under enforcement.
Business is closed.
Business is closed.
Business is closed.
**=====================================
**FSF is in enforcement.
New FSF.

Facility Name	Inactive	Trap / Interceptor	-		Total	Initial	Repeat	Follow up	Тгар	Risk	Inspection			SNC	Traps	Ī
	FSFs	Size	Required	Required	Inspections	Inspections	Inspections	Inspections	Inspections		Letters	Letters	Letters	Letters	Installed	4
The Pint House	-	30	30	1=00	1	1				Category 3 - Medium					 	_
The Purada		1500	50.50	1500	1				1	Catagory 3 - Medium	-				 	+
The Roaming Gnome Pub & Eatery		50, 50	50, 50	1000	1		1			Category 2 - High	-				 	+
The Shrimp Dock		1000		1000 1000	1			4	1	Catagory 3 - Medium		1				+
The Spice Rack The Sugar Shack	Х	1000	*_	1000	2	1		1	1	Catagory 3 - Medium Category 4 - Low	-	1			<u> </u>	÷
The Sugar Shack	^	1000	-	1000	1	1			1	Catagory 3 - Medium					<u> </u>	+
The Upper Crust	-	30	30	1000	1				1	Category 4 - Low	-				<u> </u>	÷
Three Brothers Pizza		40	40		3		2	-	1	Category 3 - Medium	-					+
Three Ridges Golf Course		500	40	500	2		2	1	1	Catagory 3 - Medium					<u> </u>	+
Time Out Deli Market		30	30	500	2		1	1	1	Catagory 3 - Medium					<u> </u>	ł
Time Warp Tea Room		40	40		2		2			Category 4 - Low					1	ł
Time-Out Deli #2		40	40		1		2		1	Catagory 3 - Medium						t
TJ's	Х	20	20		1		1			Category 4 - Low					<u> </u>	ł
Tom & Barry's	~	1000	20	1000	1				1	Catagory 3 - Medium						t
Tomato Head Restaurant		40	40	1000	3		1		2	Category 2 - High					<u> </u>	t
Tomo Japanese Restaurant (4877 N. Broadway)		1500		1500	1				1	Catagory 3 - Medium						t
Tomo Japanese Restaurant (7315 Kinston Pk.)		40, 40	40, 40	1000	1				1	Category 2 - High	1	1			i	t
Tracy's Restaurant		80,60	,		1	1		1	1	Catagory 3 - Medium	1	1				t
Triangle Market	Х	30	30		1		1		<u>'</u>	Category 4 - Low	1	1				t
Trino's	~	40	40		1				1	Catagory 3 - Medium	1	1			i	t
Trio Cafe		50	50		1				1	Catagory 3 - Medium	1	1				ţ
Tropical Smoothie Café (8008 Kingston Pk.)		1000		1000	1	1		1	1	Catagory 3 - Medium	1	1				t
Tropical Smoothie Cafe (4839 Kingston Pk.)		40	40	1000	2			1	1	Category 3 - Medium		1				t
Two Sister's Sandwiches and Sweets		40	40		1				1	Catagory 3 - Medium					1	t
U.T. Bakery @ Presidential Hall		300		1000	2		2			Catagory 3 - Medium					<u> </u>	t
U.T. Hess Hall KFC Express		40	40	1000	2		2			Catagory 3 - Medium						t
U.T Hospital		3000, 3000		2000, 2000	1		2		1	Catagory 3 - Medium						t
U.T. Mable's Cafe		1500		1500	3		3			Catagory 3 - Medium						t
U.T. Morrill Hall		1000		1000	2		2			Catagory 3 - Medium						t
U.T. Presidential Court		3000, 1000		2000	3		3			Catagory 3 - Medium						t
U.T. Strong Hall		3000, 1500		3000, 1500	2		2			Catagory 3 - Medium					<u> </u>	t
U.T. Student University Center		*6000		4000	2		2			Catagory 3 - Medium					<u> </u>	t
U.T. Thompson Boling Arena		3000		3000	2		2			Catagory 3 - Medium						t
U.T. Varsity Inn		1000		1000	2		2			Catagory 3 - Medium						t
Union Jacks	Х	*-	*_	1000	1				1	Category 4 - Low						t
Urban Bar & Corner Cafe		60	60		1				1	Catagory 3 - Medium					<u> </u>	t
Veg-O-Rama Restaurant		80, 50	80, 50		1		1			Category 4 - Low						t
Vic & Bill's Deli (3553 N. Broadway)		40	40	-	2		2			Catagory 3 - Medium						t
Village Bakery		40	40		1		1			Catagory 3 - Medium						t
Vine Middle Magnet		1000		1000	1		•		1	Catagory 3 - Medium						t
Vol Market #3		100		100	1				1	Catagory 3 - Medium						t
Volunteer Ministries	Х	1500		1500	1				1	Catagory 4 - Low						t
Waffle House # 293 (6230 Papermill)		2000		2000	1				1	Catagory 3 - Medium						t
Waffle House # 447 (5416 Asheville)		1000		1000	1		1			Catagory 3 - Medium						t
Waffle House #1105 (7414 Strawberry Plains)		1000		1000	1				1	Catagory 3 - Medium						t
Waffle House #766 (119 Cedar Lane)		1000		1000	2			1	1	Catagory 3 - Medium	1					Ť
Wallace Memorial Baptist Church		150, 150	150, 150		1				1	Catagory 3 - Medium						Ť
Wal-Mart # 2065 (8445 Walbrook)		1500		1500	1				1	Catagory 3 - Medium						t
Wal-Mart # 2310 (3051 Kinzel Way)		2000		2000	1		1			Catagory 3 - Medium						Î
Walter P. Market & Deli		20	20		1				1	Category 3 - Medium						Ť
Wasabi Japanese Steak House		1500		1500	1				1	Catagory 3 - Medium						Ť
Washington Pike Methodist Church		500		500	1				1	Catagory 3 - Medium						t
Weigel's (5904 Washington Pk.)		*1000	40		1		1			Category 4 - Low						Ť
Weigel's (3900 Pleasant Ridge)		40	40		1				1	Catagory 3 - Medium						t
Weigel's #12 (5621 Western)		40	40		1				1	Category 4 - Low		1			[t
Weigles # 43 (4750 Middlebrook)		30	50		3			2	1	Category 2 - High	1	1				t
Wendy's # 12 (3000 N. Broadway)		1000		1000	1		1			Catagory 3 - Medium		1				t
Wendy's # 13 (1806 Cumberland)	1	1000	1	1000	1		1		1	Catagory 3 - Medium		1				t
Wendy's # 24 (7407 Strawberry Plains)	1	1000	1	1000	1				1	Catagory 3 - Medium		1				t
Wendy's # 31 (8305 Kingston Pk.)		1000		1000	1				1	Catagory 3 - Medium		1				t
Wendy's # 34 (4407 Western)		1000		1000	1				1	Catagory 3 - Medium		1				t
Wendy's # 41 (6201 Asheville)		1000		1000	2		1	1		Catagory 3 - Medium	1	1				t
Wendy's #28 (2904 Knoxville Center)		1000		1000	1		1	· ·		Catagory 3 - Medium		1				t
									1		1	1	I			+
		1500		1500	1		1			Catagory 3 - Medium					•	
Wendy's #4 (2401 Chapman) West End Academy	X	1500 *-	*-	1500	1	1	1			Catagory 3 - Medium Category 4 - Low					 	+

Comments
New FSF.
FSF has internal trap on dishwasher. No space for external GI.
New FSF, No food production at facility.
Business is closed.
FSF has had maintenance issues in the past.
FSF has had maintenance issues in the past.
FSF has internal traps and will need to install GI in future.
No food production at facility.
אס וסטע אוסטעכנוטוד מרומטווגץ.
FSF moved to new location, installed new trap.
*FSF has exceeded grease trap size requirement.
No food production at facility.
No food production at facility.
*FSF has exceeded grease trap size requirement.
FSF has smaller internal than required.
New FSF, no food production at facility.

En altra Maria	Incetion	Trap /	Tree Oire	Interceptor	Tatal	Initial	Demost	F	T	Diala		NONO	NOV	SNC	Tarana	ſ
Facility Name		Interceptor	-		Total		Repeat	Follow up	Trap	Risk	Inspection				Traps	
	FSFs	Size	Required		Inspections	Inspections	Inspections	Inspections	Inspections		Letters	Letters	Letters	Letters	Installed	4
West High School		*3000		2000	1				1	Catagory 3 - Medium						+
West Hills Baptist Church		50	50		2		1		1	Catagory 3 - Medium						4
West Hills Elementary		1000		1000	1				1	Catagory 3 - Medium						4
West Lonsdale Baptist Church		1000		1000	1				1	Category 4 - Low						1
West Town Mall		1000		1000	2		1		1	Catagory 3 - Medium						1
West View Elementary		1000		1000	1				1	Catagory 3 - Medium						
Whassup Dog		40	40		3	1		1	1	Category 3 - Medium		1			1	
Whittle Springs Golf Club Snack Bar		20	20		1		1			Category 4 - Low						
Whittle Springs Middle School		**1500		1500	3		1	2		Category 3 - Medium					1	
Williams and Sonoma		50	50		5		4		1	Catagory 3 - Medium						Ι
Williams Place		30	30		1		1			Catagory 3 - Medium						T
Wing Zone		1500		1500	1				1	Catagory 3 - Medium						T
Wishbones (6913 Kingston Pk.)		1000		1000	1				1	Catagory 3 - Medium						Ι
Wishbones # 2 (2701 Magnolia)		1000		1000	1		1			Catagory 3 - Medium						Ť
Wishbones (4808 Clinton Hwy.)		1000		1000	1				1	Catagory 3 - Medium						Î
Wok Hay (5018 Kingston Pk.)		2000		2000	1				1	Catagory 3 - Medium						Î
Wok Hay (120 Merchants)	**	500, 1500, 15	00	2000	1				1	Catagory 3 - Medium						Î
Wok-N-Roll		1000		1000	2			1	1	Catagory 3 - Medium		1				Î
Wong's Palace	Х	1000		1000	1		1			Catagory 4 - Low						Î
Woodland Mart and Deli		40	40		1				1	Catagory 3 - Medium						Ĩ
World Grotto Café	Х	40	40		1		1			Catagory 4 - Low						Ť
Wright's Cafeteria		40, 40	40, 40		1				1	Catagory 3 - Medium						Ť
Yoma Tora		30	30		1				1	Catagory 3 - Medium						Ť
Young Star		30	30		4		1	2	1	Catagory 3 - Medium						t
YWCA		40	40		3		2		1	Category 4 - Low						İ
Zaxby's Restaurant		1500		1500	1		1			Catagory 3 - Medium						t
		1	<u> </u>	Totals	1225	40	411	137	637		28	42	1		34	İ
			Ļ		Total	Initial	Repeat	Follow up	Trap		Inspection			SNC	Trap	l
					Inspections	Inspections	Inspections	Inspections	Inspections	l	Letters	Letters	Letters	Letters	Installed	l

Comments
*FSF has exceeded grease trap size requirement.
**FSF installed grease trap under enforcement.
**FSF installed grease trap under enforcement.
*FSF has exceeded grease trap size requirement.
Business is closed.
Business is closed.
Busiliess is closed.

2010 Grease-Related SSOs in Residential Areas

			Building		Grease	Grease	Grease &	Grease, Roots Custom	ers Lette	rs * Cans, Bags	Residential	Residential,	# of Feet	BA	
Date	Address	SSO	Backup	Grease	& Roots	& Debris	1&1	& Debris in Are	a Mail	d Mailed	Only	Commercial	Cleaned	Frequency	Comments
1/6/2010	905 Kermit Drive (MH 4-36) Commercial SSO	Yes		Yes				1	1			Yes	268	6	
1/18/2010	229 Lynnwood Drive (MH 2-98) Residential SSO	Yes			Yes			21	21	21	Yes		325	6	
2/4/2010	4025 Thornwood Road (MH 17-92) Residential SSO	Yes			Yes			17	17	17	Yes		358	6	
2/19/2010	302 Lingburton Avenue Residential SSO	Yes		Yes				2	2	2	Yes		300	12	Low pressure force main
2/26/2010	1127 Magnet Place Residential BBU		Yes		Yes			4	4	4	Yes		225	6	
5/12/2010	4509 Landon Drive (MH 11-229) Residential SSO	Yes		Yes				6	6	6	Yes		199	6	
5/16/2010	3628 Lucinda Drive (Lateral Cleanout) Residential SSO	Yes		Yes				10	10	10	Yes		128	6	
5/23/2010	1312 Cassell Drive (MH 14-101) Residential SSO	Yes		Yes				52	52	52	Yes		250	6	
6/25/2010	5660 Colonial Circle (MH 14-2) Residential and Commercial SSO	Yes				Yes		181	18′	179		Yes	105	6	
7/5/2010	3808 Blount Avenue (Broken Sewer Lateral) Residential and Commercial SSO	Yes				Yes		170	170	157		Yes	488	0	Broken main
7/11/2010	415 Forestal Drive (MH 7-91) Residential and Commercial SSO	Yes		Yes				60	60	58		Yes	157	6	
7/15/2010	3605 Crosby Drive (Lateral Cleanout) Residential SSO	Yes			Yes			26	26	26	Yes		288	6	
8/16/2010	2706 Mynderse Avenue (MH 18-3) Residential and Commercial SSO	Yes					Yes	346	346	336		Yes	250	6	
								Total 896	896	868					

Appendix B

Pump Station Maintenance Activities and Schedule

SMSP 2010

FACILITY & EQUIPMENT UPGRADES

- 1. SCADA upgrades and improvements at various facilities Ongoing
- 2. Railroad Pump Station replacement Complete
- 3. Crestwood Pump Station replacement Complete
- 4. Ellis Road Pump Station replacement Complete
- 5. Ford Valley Pump Station replacement Complete
- 6. Boys Home Pump Station upgrade Complete
- 7. Ten Mile Pump Station grinder upgrade Complete
- 8. Lyons Creek Pump Station grinder upgrade Complete
- 9. Neubert Springs Pump Station VFD upgrade Complete
- 10. Hanover Pump Station replacement To be completed in 2011
- 11. Sea Ray Pump Station replacement To be completed in 2011
- 12. Meadow Oaks Pump Station replacement To be completed by 2011
- 13. Chapman Highway Pump Station replacement To be completed in 2011
- 14. John Sevier Pump Station upgrade To be completed in 2011
- 15. Jones Street Pump Station grinder upgrade To be complete in 2011
- 16. Kohls Pump Station pump upgrade To be complete in 2011
- 17. Burlington Pump Station pump upgrade To be completed 2011
- 18. Queensbury Pump Station pump upgrade To be completed 2011
- 19. Neubert Springs Pump Station replacement To be completed in 2012
- 20. Amherst Pump Station replacement To be completed in 2012

NEW FACILITY INSTALLATIONS

1. Lake Forest Pump Station installation – Brought online February 2011

SYSTEM STUDIES

1. SCADA System and Communication protocol study – Ongoing

FACILITY INSPECTIONS

- 1. 90 Routine facility inspections performed in 2010
- 2. 1117 Preventive Maintenance scheduled facility inspections performed in 2010

OUTSIDE SUPPORT

- 1. SMSP has performed 64 pump efficiency tests at various facilities for capacity assurance and flow monitoring purposes. SMSP has provided CDM with efficiency test data from various facilities for modeling purposes.
- SMSP maintains 16 flow meters and uses these meters for various purposes. SMSP has provided CDM with flow meter data from various facilities for modeling purposes.
- System Operations SCADA maintains a run-time archive for Wastewater Pump Stations. This information is pulled from the SMSP maintained SCADA system as it pertains to pump stations. Various facility run-time data continues to be provided to CDM for modeling purposes.

SMSP Preventive/Predictive Maintenance Activities and Frequencies

<u>Standard</u> Job	Standard Job Description	<u>Frequency</u> (In days)
RSGN	General Inspection	varies
RSFAC	Facility Inspection - Wastewater	3.5 - 7
RSCRA	Crane Inspection - annual	365
RSMM	Milltronics Inspection	180
RSMMC	Motor control/electrical inspection	365
RSLASI	Alarm status (SCADA) inspection	180
RSFM	Flowmeter inspection	180
RSBSI	Facility Inspection - Water	3.5 - 7
RSBPV	Back flow preventer inspection	365
RSCRH	Crane inspection - routine	90
RSEP	Electric panel inspection	365
RSSS	Soft starter inspection	365
RSACMP	Air compressor inspection	180
RSVFD	VFD Inspection	365
RSMME	Muffin monster inspection	365
RSODOR	Mercaptan injector inspection	30
RSPM1	Pump inspection - Wastewater	180
RSPM2	Sump pump inspection	180
RSCC	Climate control inspection (Heaters/fans)	180
RSML	Motorized louver inspection	365
RSDHM	Dehumidifier inspection	365
RSLER	Emergency lights inspection - monthly	30
RSELA	Emergency lights inspection - annual	365
RSPM3	Belt drive pump inspection - 6 mos.	180
RSBDPA	Belt drive pump inspection - annual	365
RSGNPM	Generator inspection	90
RSCFI	Chemical feed inspection	30
RSLET	Pump efficiency testing - Wastewater	365
RSPMP4	Pump inspection - Water	180
RSWDPC	DP Cell inspection	180
RSWCPC	CL2 & PH Analyzer Calibration	180
RSGRIN	Annual inspection - Gas	365
RSLS	Leak survey - Gas	365
RSPTC	Transducer calibration	365
RSOS	Odorant sampling	30
RSFMM	H2S / PH monitoring	30
RSLVA / RSBVA	Vibration analysis	90
RSCTC / RSBTC	Thermography check	540 days
RSMRC	Master radio inspection	365
RSMR	Meter Readings/charts	3.5 - 7
RSGAS	Alarm status (SCADA) inspection - Gas	365
RSGGV	Grease valves - Gas	365
RSWAS	Alarm status (SCADA) inspection - Water	180
RSGFI	Site inspection - Gas	90
RSGNA	Generator inspection - annual	365
RSWWI / RSCWI	Winterize station - Water / Wastewater	365
RSGWI	Winterize station - Gas	365

Appendix C

Summary Table of Pumps Stations Using Chemical Injection and Odor Control KUB Wastewater Facility Chemical Feed System Information (2010 Update)

CHEMICAL INJECTION

Facility	Address	Odor control type	Chemical Name	<u>Comments</u>
Ball Road	4923 Ball Road	Chemical injection	Oxy-Six	
Boyds Bridge SuperOx	3818 Boyds Bridge Pike	Chemical injection	Oxygen	
Easton Meadows	7224 Rising Road	Chemical injection	Calcium Hypochlorite	
Eastwood	740 Bagwell Lane	Chemical injection	Oxy-Six	
Ellistown	1909 Ellistown Road	Chemical injection	Oxy-Six	
Forks of the River	5051 National Drive	Chemical injection	Oxy-Six	
Forks SuperOx	5051 National Drive	Chemical injection	Oxygen	
Gazebo	3516 Ginn Drive	Chemical injection	Oxy Six	
Governors Landing	5400 Garden Crest Trail	Chemical injection	Oxy-Six	
Holston Hills	4800 River Place Drive	Chemical injection	Oxy Six	
Kohls	5312 Washington Pike	Chemical injection	Calcium Hypochlorite	
Maloneyville	4800 Maloneyville Road	Chemical injection	Oxy-Six	
Neubert Springs	5941 Neubert Springs	Chemical injection	Oxy-Six	
Power Park	3180 Power Drive	Chemical injection	Oxy-Six	
Roberts Road	5300 Roberts Road	Chemical injection	Calcium Hypochlorite	
Shipetown	2124 Shipetown Road	Chemical injection	Oxy-Six	
Ten Mile	757 Ebenizer Road	Chemical injection	Oxy-Six	
Walker Springs	310 Broome Road	Chemical injection	Oxy-Six	
Washington Pike	8515 Washington Pike	Chemical injection	Oxy-Six	
Wayland Road	1900 Wayland Road	Chemical injection	Oxy-Six	
Woodlands	1045 Tree Top Way	Chemical injection	Calcium Hypochlorite	
Woodson Drive	2416 Woodson Drive	Chemical injection	Oxy-Six	

ON-SITE ODOR CONTROL

Ball Road	4923 Ball Road	Charcoal scrubber	Purafill Media	
Casa Bella	4633 Bella Capri Lane	Charcoal scrubber	Purafill Media	
Chestnut Ridge	8009 Chestnut Hill Lane	Charcoal scrubber	Purafill Media	
Clinton Highway	6564 Clinton Highway	Charcoal scrubber	Purafill Media	
Duncan Glen	6742 Duncan Road	Charcoal scrubber	Bay Products Media	
Easton Meadows	7224 Rising Road	Charcoal scrubber	Purafill Media	
Ellistown	1909 Ellistown Road	Charcoal scrubber	Bay Products Media	
Gazebo	3516 Ginn Drive	Charcoal scrubber	Purafill Media	
Ginnbrooke	2907 Ginnbrooke Lane	Charcoal scrubber	Bay Products Media	
Governors Landing	5400 Garden Crest Trail	Charcoal scrubber	Bay Products Media	
Harrison Keepe	2122 Houser Road	Charcoal scrubber	Bay Products Media	
Lower First Storage	1502 N. Sixth Avenue	Charcoal scrubber	Bay Products Media	
Millertown	5800 Millertown Pike (Vincinda Cir)	Charcoal scrubber	Purafill Media	
Riverview Park	3221 Holston Hills Road	Charcoal scrubber	Bay Products Media	
Roberts Road	5300 Roberts Road	Charcoal scrubber	Bay Products Media	
Third Creek Storage	4505 Middlebrook Pike	Charcoal scrubber	Bay Products Media	
Three Points	8530 Three Points Road	Charcoal scrubber	Purafill Media	
Upper First Storage	4719 Old Broadway	Charcoal scrubber	Bay Products Media	
Walker Springs	310 Broome Road	Charcoal scrubber	Bay Products Media	
Walker Springs Storage	608 Walker Springs Road	Charcoal scrubber	Bay Products Media	
Washington Pike	8515 Washington Pike	Charcoal scrubber	Bay Products Media	
Woodlands	1045 Tree Top Way	Charcoal scrubber	Bay Products Media	
Woodson Drive	2416 Woodson Drive	Charcoal scrubber	Purafill Media	



Form: Wastewater Odor Control System Values

Core Process: SMSP Preventive Maintenance		Document Status: Issued		
Department: System Operations,	81	Approved by: Brad Bru		
Owner: SMSP Supervisor		Issued Date: 11/22/201	0	
Facility		Date		
Inspected By:				
		e order listed below and then coordinate with ined in order to determine if adjustments nee		
Terminal Manhol	e Nitrate (Water Sa	ample)		
Results (PPM):				
Terminal Manhol	e Hydrogen Sulfid	e (Water Sample)		
Results (PPM):				
Terminal Manhol	e pH (Water Samp	le)		
Results (PPM):				
Chemical Feed P	ump Draw Down			
Results (GPD):				
Chemical Storage	e Tank Level			
Results (Feet):				
Air Scrubber Hyd	lrogen Sulfide (Air	r Sample)		
Results (PPM):				
Exchange Media:	□ Yes □	□ No □ Further Evaluation		
Comments:				

Appendix D

Pump Station and Storage Facility Sample Inspection Checklists



Checklist: Wastewater Lift Station Inspection

_		Process: SMSP Preventive Maintenance	Document Status: Issued		
	-	tment: System Operations, 81	Approved by: Brad Brummett		
=	Owner	: SMSP Supervisor	Issued Date: 6/3/2009		
	Facilit	y name	Date		
	Perfor	med by			
		ntive maintenance work order			
	-	erly detailed inspection Annual performanc	· _		
	Тір	This checklist can be used as a guide for completed while conducting a monthly in	monthly inspections but is not required to be spection.		
		o complete a wastewater lift station maintenance pripment:	e inspection, check the following areas or		
	-				
	1.	Grinder Well and Screen Room			
_		Hatches and safety grating	Milltronics card updates (annual insp only)		
		Entrance door(s) and locking mechanisms	U Walking surfaces		
		Hydraulic equipment	Lighting		
		Slide gate(s) or valve(s)	□ Ventilation		
		Actuator(s)	\Box Float switches(s) – dry well and wet well		
		Guide rail(s) or lifting mechanisms	Cleanliness		
		Level transmitter(s)	□ Fall safety device		
		Grinder #1: run time:			
		Grinder #1 amperage reading: A (phase)	B (phase) C (phase)		
		Grinder #2: run time:			
		Grinder #2 amperage reading: A (phase)	B (phase) C (phase)		
	2.	Wet Well and Pump Room			
		Hatches and safety grating	Submersible pressure transducer		
		Entrance door(s) and locking mechanisms	Milltronics card updates (annual insp only)		
		Slide gate(s) or valve(s)	Lighting		
		Guide rail(s) or lifting mechanisms	U Ventilation		
		U Walking surfaces	Cleanliness		
		$\Box \text{Float switches}(s) - dry \text{ well and wet well}$	Sump pump(s) and check valve(s)		
		Fall safety device	Pressure instrumentation		
		Actuator(s)	Static pressure		
		Level transmitter(s)	Piping and drainage		

Status: Issued Revised 11/22/2010 NA

		 Pump #1: run time: Pump #2: run time: 	neter test in conjunction w	ith the pump efficiency test.)
		Pump #3: run time:		
		Pump #4: run time:		
		Motor #1 amperage reading: A (phase)	-	-
		Motor #2 amperage reading: A (phase)		u ,
		Motor #3 amperage reading: A (phase)		-
		Motor #4 amperage reading: A (phase)	B (phase)	C (phase)
		Check valve(s)		
	3.	Valve Vault or Pump Room Valving		
—		□ Hatches and safety grating	U Ventilation	
		□ Isolation valve(s)	Cleanliness	
		Air release valve(s)	Check valve(s	:)
		Sump pump(s) and check valve(s)	Pressure instru	
		□ Walking surfaces		2
		$\Box $ Float switches(s) – dry well or wet well	_	sure
		□ Fall safety device	Piping and dra	
		Lighting	1 0	C
	4	Effluent Meter - Vault		
	4.	-		
		Hatches and safety grating	U Ventilation	
		☐ Isolation valve(s)		
		Sump pump(s) and check valve(s)	Piping and dra	
		Walking surfaces	_	nd signal converter
		Float switches(s) – dry well or wet well	Effluent meter	r totalizer:
		Lighting		
	5.	Odor Control		
		Chemical feed enclosure and components	Chemical feed	l building
		Chemical storage containment	Chemical feed	l piping and valve(s)
		Chemical feed tank: level (ft.)	Carbon vessel	and media sample (air scrubber)
		Chemical feed rate: gallons/day	Eyewash Stati	on
		Terminal manhole monitoring:		
		Nitrate		
		Hydrogen sulfide pH		
		r		

NA

	6.	Electrical Building,	Control Panel, SCA	ADA Panel, and Relat	ed Equipment
--	----	----------------------	--------------------	----------------------	--------------

G 6.	 SCAD Note SCAD Climat Emerg 	Initiate this task when you first arrive, so you are testing the UPS unit while doing other tasks. A test log sheet (annual insp only) te control gency transfer switch	Elated Equipment TVSS monitor (indication lights) Lighting Ventilation Cleanliness Motor control center components
7 .	 Exterior Generation Miscel Securit Overheit 	ency lighting or lighting ator Ilaneous control panels ty	Site aesthetics Backflow preventer Air compressor (s) – pressure vessels Air compressor (s) – Control Setpoints Form Air compressor (s) – Regulator Setpoints Form Yard hydrant
Comment	s:		

Status: Issued Revised 11/22/2010

Important If any discrepancies are found, notify SMSP or appropriate personnel.



Form: Pump Efficiency Testing

Core Process: SMSP P	reventive Maintenance		Document Status: Issued
Department: Systems C	epartment: Systems Operations, 81 Approved by: Brad Brumm		
Owner: SMSP Supervise	or		Issued Date: 3/17/2004
Performed by Facility 1.0 WETWELI	L INFORMATIO	·N	Date
(Length	x Width	x Depth) = Total Volume
(0.785 x Dia.	x Dia.	x Depth) = Total Volume
(Total Volume	x 7.48) = Total Ga	allons	_
(Total Gallons	/ Depth) = Gallons per	r foot

Important Wetwell type depicts which volume formula to use (Cylindrical or Square/Rectangular).

2.0 TESTING

To complete this testing form, you must conduct three inflow measurements and three drawdown measurements that will be timed for one minute to obtain the most accurate data. When applicable, take readings from the Milltronics Level Control Unit when performing inflow and drawdown measurements.

If you are using a tape measure to obtain level readings, convert all inch readings to feet before completing the calculations.

2.1 INFLOW TESTING

To obtain the correct difference, record the second reading at the top.

Test 1	Test 2	Test 3
Second	Second	Second
Initial	Initial	Initial
Difference	Difference	Difference
Calculate the average of	of the 3 measurements	
Average inflow	x Gallons per ft	= Inflow GPM

2.2 DRAWDOWN TESTING

2.2.1 Pump #1

To obtain the correct difference, record the second reading at the top.

Test 1	Test 2	Test 3
Second	Second	Second
Initial	Initial	Initial
Difference	Difference	Difference
GPM		
Calculate the average of th	e 3 measurements	
Avg drawdown	x Gals per ft	= Drawdown GPM
		Total pump
Drawdown GPM	+ Inflow GPM	= capacity GPM
Pressure Readings (Disc	charge and Suction / Pump ON)
Pump ON discharge PSI	reading Pump 0	ON suction PSI reading
Motor amperage reading	çs	
A Phase	B Phase	C Phase
2.2.2 Pump #2		
To obtain the correct difference, r	ecord the second reading at the	e top.
Test 1	Test 2	Test 3
Second	Second	Second
Second	Second Initial	Second Initial
Initial	Initial	Initial
Initial Difference	Initial Difference	Initial
Initial Difference GPM	Initial Difference e 3 measurements	Initial
Initial Difference GPM Calculate the average of th Avg drawdown	Initial Difference e 3 measurements	Initial Difference = Drawdown GPM Total pump
Initial Difference GPM Calculate the average of th Avg drawdown Drawdown GPM	Initial Difference e 3 measurements x Gals per ft	Initial Difference = Drawdown GPM Total pump = capacity GPM
Initial Difference GPM Calculate the average of th Avg drawdown Drawdown GPM	Initial Difference e 3 measurements x Gals per ft + Inflow GPM charge and Suction / Pump ON	Initial Difference = Drawdown GPM Total pump = capacity GPM
Initial Difference GPM Calculate the average of th Avg drawdown Drawdown GPM Pressure Readings (Disc	Initial Difference e 3 measurements x Gals per ft + Inflow GPM charge and Suction / Pump ON reading Pump 0	Initial Difference = Drawdown GPM Total pump = capacity GPM)
Initial Difference GPM Calculate the average of the Avg drawdown Drawdown GPM Pressure Readings (Disc Pump ON discharge PSI i	Initial Difference e 3 measurements x Gals per ft + Inflow GPM charge and Suction / Pump ON reading Pump O	Initial Difference = Drawdown GPM Total pump = capacity GPM)

Status: Issued Revised 12/20/2005

2.2.3 Pump Combination

Pumps involved				
Test 1		Tes	st 2 Test 3	
Second		Second	Second	
Initial		Initial	Initial	
Difference		Difference	Difference	
GPM				
Calculate the average	ge of the 3 meas	urements		
Avg drawdown	X	Gals per ft	= Drawdown GPM	
Drawdown GPM	+	Inflow GPM	Total pump = capacity GPM	
Pressure Readings	s (Discharge a	nd Suction / Pu	ump ON)	
Pump ON discharg	ge PSI reading		Pump ON suction PSI reading	
Motor amperage r	eadings			
A Phase		B Phase	C Phase	

2.3 ADDITIONAL DRAWDOWN TESTING

If a facility has more than two pumps, use this section of the form to log the test results for the additional drawdown tests.

2.3.1 Pump #3

Test 1		Tes	st 2	2 Test 3		
Second		Second		Second		
Initial		Initial		Initial		
Difference		Difference		Difference		
GPM						
Calculate the average of the	e 3 meas	urements				
Avg drawdown	X	Gals per ft	=	Drawdown GPM		
Drawdown GPM	+	Inflow GPM	=	Total pump capacity GPM		
Pressure Readings (Disc	harge a	nd Suction / Pu	imp ON)			
Pump ON discharge PSI r	reading		Pump ON suct	ion PSI reading		
Motor amperage reading	(S					
A Phase		B Phase		C Phase		
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2.3.2 Pump #4

Test 1		Test 2		Test 3	
	Second	Second		Second	
	Initial	Initial		Initial	
	Difference	Difference		Difference	
	GPM				
	Calculate the average of the 3 me	easurements			
	Avg drawdown	x Gals per ft		= Drawdown GPM	
	Drawdown GPM	+ Inflow GPM		Total pump = capacity GPM	
	Pressure Readings (Discharge	e and Suction / Pu	ump ON)		
	Pump ON discharge PSI reading	g	Pump ON su	ction PSI reading	
	Motor amperage readings				
	A Phase	B Phase		C Phase	
2.3.3 Pump	Pump Combination os involved				
	Test 1	Tes	st 2	Test 3	
	Second	Second		Second	
	Initial	Initial		Initial	
	Difference	Difference		Difference	
	GPM				
	Calculate the average of the 3 me	easurements			
	Avg drawdown	x Gals per ft		= Drawdown GPM	
	Drawdown GPM	+ Inflow GPM		Total pump = capacity GPM	
	Pressure Readings (Discharge	e and Suction / Pu	ump ON)		
	Pump ON discharge PSI reading	g	Pump ON su	ction PSI reading	
	Motor amperage readings				
	A Phase	B Phase		C Phase	

2.3.4 Pump Combination

Pumps involved Test 2 Test 1 Test 3 Second Second Second Initial Initial Initial Difference Difference Difference **GPM** Calculate the average of the 3 measurements Avg drawdown x Gals per ft = Drawdown GPM Total pump Drawdown GPM + Inflow GPM _____ = capacity GPM Pressure Readings (Discharge and Suction / Pump ON) Pump ON discharge PSI reading Pump ON suction PSI reading _____ Motor amperage readings A Phase **B** Phase C Phase



Checklist: Wastewater Storage Facility Inspection

part		Document Status: Issued Approved by: Brad Brummett Issued Date: 6/3/2009			
cilit	y name	Date			
rfor	med by				
ever	ntive maintenance work order				
arte					
)		or monthly inspections but is not required to be inspection.			
		enance inspection, check the following areas or			
1. 2.	 Diversion Structure Security Hatches and safety grating Slide gate(s) or valve(s) Level transmitter (s) 	 Site aesthetics Actuator(s) Cleanliness 			
	 Hatches and safety grating Actuator(s) Level transmitter(s) Grinder #1: run time Grinder #2: run time Grinder #3: run time 	 Slide gate(s) or valve(s) Guide rail(s) and lifting mechanisms Cleanliness 			
3.	 Wet Well(s) Hatches and safety grating Actuator(s) Level transmitter(s) Pump #1: run time Pump #2: run time Pump #3: run time Pump #4: run time Pump #5: run time 	 Sump Pump #1: run time			
	Tarta 1.	<pre>artment: System Operations, 81 ner: SMSP Supervisor iility name formed by ventive maintenance work order arterly detailed inspection</pre>			

4.	Valve Vault		
	Hatches and safety grating		Structures (catwalk)
	Lighting		Cleanliness
	U Ventilation		Entrance door(s) and locking mechanisms
	□ Isolation valve(s)		Check valve(s)
	Air release valve(s)		Pressure instrumentation
	U Walking surfaces		Piping and drainage
5.	Influent Meter Vault		
	Hatches and safety grating		Influent meter totalizer
	Lighting		Flow meter and signal converter
	U Ventilation		Actuator(s)
	□ Isolation valve(s)		Piping and drainage
	Pressure Instrumentation		Drain valve
	Cleanliness		Walking surfaces
	Entrance door(s) and locking mechanisms		
6.	Effluent Meter Vault		
	Hatches and safety grating		Effluent meter totalizer
	Lighting		Flow meter and signal converter
	U Ventilation		Actuator(s)
	□ Isolation valve(s)		Piping and drainage
	Cleanliness		Drain valve
	Entrance door(s) and locking mechanisms		Walking surfaces
7.	Odor Control		
	LEL monitor(s)		Carbon vessel and media sample (air scrubber)
	Hydrogen sulfide monitor		Magnehelic gauge: pressure drop
	Fan, dampers, louvers, and ductwork		
8.	Electrical Building, Control Panel, SCADA	Panel and Rel	ated Equipment
	SCADA panel		Grinder control panel(s)
	Note Initiate this task when you first arrive you are testing the UPS unit while do		TVSS monitor (indicator lights)
	other tasks.		Lighting
	SCADA test log sheet (annual insp only)		Ventilation
	Climate control		Cleanliness
	Emergency transfer switch		Motor control center components
9.	Storage Tank		
	Fall safety device		Mixer #1: run time
	Handrail, hatches, & safety grating (annual	only)	Mixer #2: run time
	LEL monitor		Mixer #3: run time
	Hydrogen sulfide monitor		Mixer #4: run time
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NA		
	Level transmitter(s)	Guide rail(s) and lifting mechanisms
		Tank drain valve
1 0		
— 10.	Site Miscellaneous	
	Security	Backflow preventer
	Exterior lighting	Miscellaneous control panels
	Generator: run time	□ Sprinkler system components
	Emergency lighting	Signs and placards
	□ Site aesthetics	
Comment	s:	

Important If any discrepancies are found, notify SMSP or appropriate personnel.