

# **Nine Minimum Controls Compliance Report**

September 15, 2006

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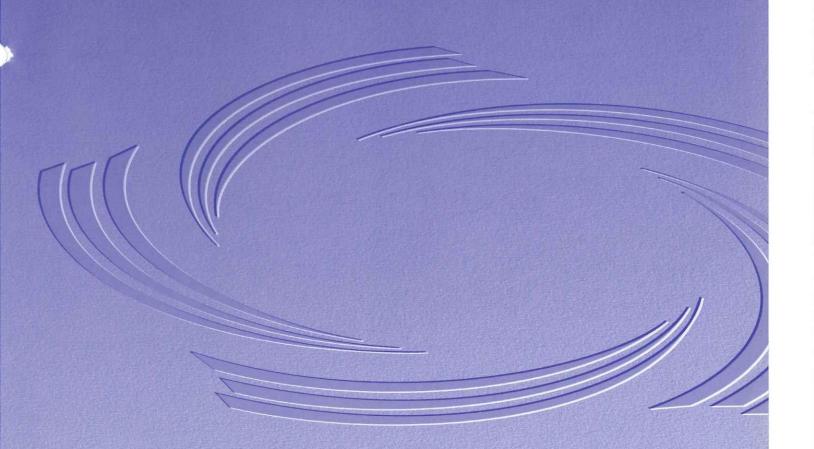
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## **SECTION 1: PROGRAM OVERVIEW**

#### 1.1 INTRODUCTION

On April 19,1994, the United States Environmental Protection Agency (EPA) published the CSO Control Policy that provides guidance to CSO communities, permit authorities and state water quality standards authorities on coordinating the planning, selection and implementation of CSO controls that meet the requirements of the Clean Water Act (CWA) and allow for public involvement during the decision-making process. The policy established two main objectives for permittees; implementation of Nine Minimum Controls (NMCs) and development and implementation of a CSO Long Term Control Plan (LTCP).

Consistent with the Commonwealth of Kentucky's CSO Control Strategy, the Louisville and Jefferson County Metropolitan Sewer District (MSD) has submitted Combined Sewer Operational Plans (CSOP) and Annual Reports, MSD's 1996 CSOP included a draft Long Term Control Plan for the Beargrass Creek Region, as well as a report on NMC activities, and its 1997 CSOP included a draft LTCP for the Ohio River Regions and NMC activities. Since that time, MSD has continued to work to implement the NMCs.

On August 12, 2005, MSD entered into a Consent Decree with the Kentucky Environmental and Public Protection Cabinet Department for Environmental Protection – Division of Water (DOW) and EPA. The Consent Decree requires demonstration of MSD's current status relative to compliance with the NMC requirements within the combined sewer system (CSS) as set forth in the EPA CSO Control Policy. The Consent Decree requires that the documentation of compliance status and the proposed activities shall be consistent with the Guidance for Nine Minimum Controls, EPA 832-B-95-003, May 1995.

Per the Guidance manual, NMCs are technology-based activities designed to reduce CSOs and their effects on receiving water quality, do not require significant engineering studies or major construction and can be implemented in a relatively short period. Furthermore, minimum controls are not temporary measures; they should be part of long-term efforts to control CSOs. Municipalities are encouraged to be creative and to explore innovative and cost-effective measures in implementing the NMCs to address their specific CSO problems. While the CSO Control Policy has established nine categories of controls, the NMCs are not necessarily separate and distinct. Specific projects, O&M and other activities in MSD's collection and treatment system may address and facilitate more than one of the NMCs. Therefore, there is much overlap found throughout this document. In any event, the ultimate goal is the reduction of overall CSO impacts as effectively and efficiently as possible.

This report provides current roles and responsibilities, ongoing activities, and accomplishments to date. The implementation and status of the CSO LTCP is detailed in a separate report entitled Interim CSO Long Term Control Plan dated June 3, 2006.

## 1.2 MSDs ORGANIZATIONAL STRUCTURE

MSD has 608.5 approved staff positions (current as of January 2006) and is governed by an 8-member Board that approves budgets, rates, policies, and initiatives. Board members are appointed by the Mayor and serve 3-year overlapping terms. Daily operations of MSD are managed by the Executive Director.

MSD is organized into the Executive Offices plus 9 divisions: Infrastructure and Flood Protection (I&FP), Legal, Human Resources, Finance, Physical Assets, Regulatory Management Services (RMS), Engineering, Operations, and Information Technology (IT). Figures of MSD's most



current organization charts for each division are provided in Appendix A. The organization charts show the extent and complexity of the organization.

#### 1.2.1 Executive Offices

The Executive Offices includes the Executive Director and three support staff.

## 1.2.2 Infrastructure and Flood Protection (I&FP) Division

With a total staff of approximately 211, I&FP is responsible for operation and maintenance of MSD's sewers, drainage systems, flood pump stations, and flood protection levees. I&FP's responsibilities include customer service response, condition assessment, preventive maintenance, corrective maintenance and emergency maintenance. I&FP staff also provides operation and maintenance of CSO overflows and regulators.

### 1.2.3 Legal Division

The Legal Division includes five in-house lawyers and two support staff. The Legal staff provides assistance in areas of contracts, purchasing, regulatory compliance, and property acquisition. The in-house legal staff is supported by outside counsel who report directly to the MSD Board.

### 1.2.4 Human Resources Division

Human Resources (HR) include 18 staff positions with responsibility for staffing functions, benefits and insurance, training, and DiverseWorks (MSD's EEO and minority and female business enterprise programs). HR also includes an employee relations coordinator who deals with union contracts and similar issues.

HR maintains the organization chart and develops position descriptions and job qualification requirements for each approved position in MSD's organization.

### 1.2.5 Finance Division

The Finance Department has 17 staff positions with responsibilities for budgets, rates and revenue, purchasing, payroll, and accounts receivable and accounts payable. Finance also includes an in-house auditor.

## 1.2.6 Physical Assets Division

Physical Assets has 39 staff positions organized into three groups: Administrative Services, Fleet Services, and Storeroom and Inventory.

## 1.2.7 Regulatory Management Services Division

The Regulatory Management Services (RMS) Division includes 43 approved positions. This Division was formed to coordinate MSD regulatory programs dealing with hazardous materials, industrial discharge permitting, and wastewater/stormwater discharge regulations. MSD's laboratory is also part of the RMS Division.

The RMS over-site includes the combined and sanitary sewer programs which also includes the CMOM Program. The Consent Decree, in Paragraph 22, calls for the formation of a Wet Weather Team which will represent the community stakeholders that have an interest in the CD outcome. The Wet Weather Team will be the responsibility of the RMS Division.

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## 1.2.8 Engineering Division

The Engineering Division is divided into two main groups: Development and Area Teams.

## 1.2.8.1 Development Team

The development team includes 24 staff positions primarily responsible for review, approval and inspection of new developments that propose to connect to MSD's system.

#### 1.2.8.2 Area Teams

The Area Teams were formed to provide MSD with the ability to be more responsive to customer service needs based on specific geographic (major drainage basins) and political service areas. Three Area Teams are responsible for the planning and execution of MSD related capital projects, drainage projects, and coordination of operations and customer service needs of other public agencies. Each Area Team has staff dedicated to its particular Area Team service area. There are 29 staff positions in the 3 Area Teams.

## 1.2.9 Operations Division

Operations includes 154.5 staff positions, with responsibility for operations and maintenance of MSD's wastewater treatment plants, sewage pump stations, and associated force mains. The Operations Division is also responsible for production of Louisville Green® the heat-dried biosolids fertilizer that MSD markets to agricultural customers throughout the south.

Of the 151.5 approved positions, 91 are assigned to the 120 mgd Morris Forman Wastewater Treatment Plant (MFWTP). In addition to treating more than 70 percent of all wastewater generated in MSD's service area, MFWTP is also the biosolids handling facility for the entire District.

## 1.2.10 Information Technology Division

The Information Technology Division is divided into four separate functional units: LOJIC, Information Systems, GIS Services and Records and Customer Relations.

#### 1.2.10.1 LOJIC

The Louisville/Jefferson County Information Consortium (LOJIC) is a multi-agency partnership begun in 1988 with the mission of building and maintaining a comprehensive Geographic Information System (GIS) to serve all of Louisville and Jefferson County, Kentucky. A 12-person technical staff supports overall GIS activities across all LOJIC user agencies. LOJIC staff, housed at MSD offices, provides database management, applications development, products/services, training and system network support for all users.

## 1.2.10.2 Information Systems

This core group of 17 technical staff supports and maintains all of MSD's information technology systems, including the network, hardware and software for MSD and its partner agencies for business and engineering processes. Information Systems personnel also develop and maintain in-house applications to support MSD's functions.



#### 1.2.10.3 GIS Services and Records

This department has a 13 person staff that supports MSD's GIS and record drawing activities across all of MSD. GIS Services and Records personnel provide direct user support and training for the Hansen Asset Management System (Hansen) and eB software, as well as GIS applications development, database management, custom mapping and creation and maintenance of MSD's GIS layers.

#### 1.2.10.4 Customer Relations

Nineteen staff members provide support for the Customer Relations Call Center and direct customer contact that come to MSD to conduct business. They provide 24 hours per day, 7 days per week telephone support and after 5:00 PM and on weekends answer all 311 calls for Louisville Metro.

#### 1.3 SYSTEM CHARACTERIZATION

To plan, select and design appropriate CSO NMCs and to ascertain the effectiveness of these controls, MSD specifically characterized the land use areas served by the combined system, including the size (in square miles) and population served of the CSO drainage area, its land uses, and level of imperviousness. The character (size, population, land use) of the areas served by separate sewer systems, but which are adjacent to and potentially impact the same receiving waters, is also necessary for assessing potential inputs from sources other than CSOs.

Consistent with the NMCs objectives to minimize the impact of CSOs through a reduction of the frequency, duration or pollutant loading that is associated with overflows, MSD also characterized the sewersheds to determine the location of CSO points, the estimated frequency of overflows under specific rainfall and runoff conditions, and the estimated duration of such overflows. To accomplish this characterization, MSD has modeled the CSS area under a wide variety of precipitation conditions, performed many field investigations and surveys, reviewed current LOJIC information and aerial photography, performed water body inspections, and reviewed previously available information. The characterization of the system provided data about the site-specific nature of CSO in Louisville and Jefferson County which led to the development of alternatives and choices for the NMCs.

## 1.3.1 Combined Sewer System Overview

The sewerage system owned, operated, and maintained by MSD has evolved for almost a century and a half into an extensive network of both sanitary and combined sewers, diversion structures, mechanical regulators and other flow control devices, and pump stations. The combined sewer area encompasses 25,000 acres, which is about one-third of the Morris Forman Treatment Plant (MFWTP) service area, and serves about 324,000 people with approximately 670 miles of sewer. There are 113 active CSOs within the MSD service area. MSD has subdivided the combined sewer area into three regions for study and evaluation. Detailed descriptions of the combined sewer system within each region are provided in the following sections.

In the combined sewer system, flows during dry weather conditions are conveyed to the MFWTP to remove pollutants before discharging to the Ohio River. During wet weather conditions, when capacity of the CSS is exceeded, there are overflows to the South Fork of Beargrass Creek, Middle Fork of Beargrass Creek, or the Ohio River. Approximately 25% of

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the total sanitary flow tributary to the MFWTP from the separate sewer system is conveyed through portions of the CSS.

As part of the development of the CSO LTCP, information was compiled to characterize the CSO areas and the MSD CSS. Relevant characteristics such as CSO location, drainage basin land use, and frequency and duration of probably overflows have been compiled using information obtained from LOJIC, aerial photography, sewer-system characterization and hydraulic modeling. In addition, site visits and field walks were also performed to verify other information.

Refer to Figures 1a, 1b and 1c for descriptions outlining the catchment area, land use, pipe sizes, and control devices at each CSO location. Overflow volume and frequency have also been developed for each CSO under a wide variety of precipitation conditions. This information is available in the draft LTCPs, or various studies and reports developed and reported to DOW as part of the WATERS reports, MSD's annual updates on the wet weather program.

## 1.3.1.1 Beargrass Creek Region

The Beargrass Creek Region consists of the eastern portion of the CSO area, which includes the Beargrass Creek watershed, and is considered the most sensitive area due to the high concentration of residential areas and proximity to public gathering places. The Beargrass Creek Region contains 56 CSOs that discharge to Beargrass Creek.

The combined sewer collection and transmission system in the Beargrass Creek Region consists of those sewers contributing dry and wet weather flow to the Robert J. Starkey Pumping Plant, including the interceptors along the South and Middle Forks of Beargrass Creek, the Northeastern Sanitary Trunk, and related collector sewers. Much of the interceptor network in this region has limited wet weather conveyance capacities. Although nearly all wastewater flows generated in the Beargrass Creek Region are tributary to the Robert J. Starkey Pumping Plant. Two exceptions exist:

- Those flows spilling into the Beargrass Interceptor Relief Sewer that are subsequently pumped to the Southwestern Outfall service area via the Nightingale Pump Station, and;
- Flows diverted from the Beargrass Interceptor to the Southeastern Interceptor and Northern Ditch Interceptor systems, via the Southeastern Diversion, upstream of the combined sewer area.

## 1.3.1.2 Ohio River North Region

The Ohio River North Region covers the central business district and most of downtown Louisville. The Ohio River North Region contains overflows that discharge to areas in close proximity to riverfront parks and development.

The Ohio River Interceptor (ORI) and Central Relief Drain (CRD) service areas are designated as the Ohio River North Region since they are downstream of the Robert J. Starkey Pumping Plant and overflow into the Ohio River. The collection and conveyance networks in this Region are relatively small with limitations in wet weather capacity; therefore, the LTCP CSO control solutions are likely to consist of a mixture of off-line or in-line storage, continued sewer separation, additional relief sewers, system diversions and/or upgraded or expanded pumping facilities to accommodate greater wet weather flows. The ORI conveys flows to the Main Diversion Structure which contains CSO 211 near the MFWTP from the Robert J. Starkey Pumping Plant, 4th Street and 34th Street Pump Stations, as well as gravity systems generally



serving the areas along the south shore of the Ohio River. Forty-nine (49) individual overflow relief structures are widely scattered throughout the two service areas, with no centrally-oriented clusters of overflows.

## 1.3.1.3 Ohio River West Region

The Ohio River West Region encompasses the western side of the CSO area, including the Morris Forman Treatment Plant, which serves the entire CSO area. The Ohio River West Region contains the fewest number of CSOs, all of which discharge to the Ohio River, and has the lowest potential for human contact. The Ohio River West Region also contains the single largest CSO discharge location (1,780 MG/Yr or 60% of all CSO overflows) representing the majority of the system-wide overflow volume.

In the Ohio River West Region, the conveyance systems consist of much larger interceptors and trunk sewers than exist in either of the Beargrass Creek or Ohio River North Regions. Major sewers and service areas in the Ohio River West Region include the Northwestern Interceptor (NWI), Western Interceptor, Western Outfall (WO), Southern Outfall (SO), and the Southwestern Outfall (SWO). With the exception of the Western Interceptor, the conveyance capacities of these facilities are generally much larger than the capacity required for dry weather flow only, since they must also convey storm flows from small and large events. Eight (8) CSO locations exist in this western part of the MSD service area, all of which are located near the most downstream ends of the conveyance systems in each area.

## FIGURE 1-1a BEARGRASS CREEK CSO REGION

	E							SHAPE / STRUG	CTURE	
cso	CSO NAME	LOCATION	RECEIVING STREAM	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	PERCENT TREE COVER	ANNUAL OVERFLOW ESTIMATE (MG/YR)	OVERFLOW TYPE	OUTLET SIZE	INTERCEPTOR SEWER
018	NIGHTINGALE PS	NIGHTINGALE & SFBGC	SF BGC	0.0	NA	Interceptor Relief	0.64	HIGH LEVEL PIPE W/ SIDE WEIR		27"
020	BUCHANAN PS	BUCHANAN & FRANKLIN	OR	86.6	65.11%	0.06%	40.23	DIVERSION DAM	6' x 6'	6'6" X 6'1.5"
062	LOGAN COMPANY	N OF BUCHANAN PS	OR		NA	Interceptor Relief	48.42	DIVERSION DAM	54" SE	5'7.5" x 4'0" basket handle
065	LAMPTON STREET	LAMPTON & SWAN	SF BGC		No Data	9.45%		DIVERSION DAM	24"	12"
080	PAYNE STREET	LEXINGTON RD W OF PAYNE	MF BGC		No Data	5.48%		DIVERSION DAM	8"	2.2'x5.1' rectangular
081	LETTERLE	LETTERLE @ BGC PS	SF BGC		NA	Interceptor Relief	0	HIGH LEVEL PIPE		10"
082	BGI AT BGC	BGC @ OMFT	SF BGC	16.0	NA	Interceptor Relief	0.59	HIGH LEVEL PIPE		39"
083	BRENT ST & BROADWAY CONNECT	BRENT & BROADWAY	SF BGC	45.7	73.30%	0.43%	2.67	DIVERSION DAM	8"	30"
084	BRENT ST @ BGC	BRENT ST @ BGC	SF BGC	125.1	63.93%	3.77%	2.21	DIVERSION DAM	15"	54"
086	PAYNE AT SPRING	PAYNE ST @ SPRING ST	MF BGC	6.1	60.45%	3.56%	0	LEAPING WEIR	10"	24"
087	BLUEHORSE	FRANKFORT @ BLUEHORSE	SF BGC	8.0	59.07%	0.00%	0	LEAPING WEIR	10"	24"
088	MELLWOOD AVE INT	BROWNSBORO RD @ BGC	SF BGC	Ī	61.19%	0.65%	0	LEAPING WEIR	24"	24"
091	SCHILLER AVE OVFL	SCHILLER & HIGHLAND	SF BGC	15.0	48.23%	10.29%	0.06.	ORIFICE		24"
092	ST CATHERINE @ BGC	SCHILLER BTW KY & ST CATHERINE	SF BGC	7.7	50.88%	8.78%	0.003	LEAPING WEIR	15"	24"
093	SPRING STREET	SPRING ST N OF MELLWOOD	SF BGC	20.8	65.08%	0.60%	0	LEAPING WEIR	15"	36"
097	CANTONMENT SIPHON NO 2	BGC S OF EASTERN PKWY	SF BGC		NA	Interceptor Relief	49.81	HIGH LEVEL PIPE		39"
106	ROYAL - NEFF	BACKYARD OF 1212 ROYAL	SF BGC	11.8	30.69%	22.80%	0.1	DIVERSION DAM	6"	12" and 15" - in 18" - out
108	REG NO 1 - NEWBURG	NEWBURG @ TREVILIAN	SF BGC	485.2	39.61%	15.54%	39.59	REGULATOR W/ RACK BARS	12" x 24"	dual 7'6" x 7'0"
109	REG NO 2 - DEER PARK	BEHIND O. L. O. P.	SF BGC	95.4	44.46%	6.88%	2.97	REGULATOR W/ RACK BARS	12" x 15"	54"
110	REG NO 3 - GOSS AVE	BGC S OF EASTERN PKWY	SF BGC	73.0	45.79%	6.24%	3.9	REGULATOR W/ RACK BARS	12" x 15"	60"
111	EMERSON STREET SEWER	BGC N OF EASTERN PKWY	SF BGC	99.4	51.55%	6.97%	9.55	DIVERSION DAM		5'2.5" x 4'9" basket handle
113	ELLISON AVENUE SEWER	ELLISON & SCHILLER	SF BGC	67.6	50.09%	4.97%	7.83	DIVERSION DAM		48"
117	REG NO 11 - DRY RUN	LOGAN & CALDWELL	SF BGC	74.2	60.02%	0.14%	82.53	DIVERSION DAM W/ REGULATOR	24" x 24"	9'6"
118	REG NO 15 - E BRDWY	BROADWAY W OF BGC	SF BGC	354.1	73.96%	0.15%	169.76	DIVERSION DAM W/ REGULATOR	16" x 34"	8'0"
119	BRENT STREET SEWER	BGC N OF BROADWAY	SF BGC		NA	interceptor Relief	2.35	HIGH LEVEL PIPE	10	18"
120	PHOENIX HILL SEWER	E OF BGC & S OF BAXTER	SF BGC	7.7	77.53%	0.32%	4.35	DIVERSION DAM	8"	24"
121	REG NO 18 - GREEN ST	LEXINGTON RD W OF BGC	SF BGC	107.2	73.39%	0.88%	3.2	DIVERSION DAM W/ REGULATOR	12"	36"
123	REG NO 20 - RUTH-SULGRV	ON BGC OP SPRING VALLEY	MFBGC		No Data	39.43%		REGULATOR W/ RACK BARS	8"	27"
125	REG NO 24 - GRINSTEAD DR	GRINSTEAD @ 1-64	MFBGC	391.0	37.27%	11.37%	18.4	REGULATOR W/ RACK BARS	15"	7'3"
126	REG NO 26 - RAYMOND AVE	1-64 & SAUNDERS LN	MF BGC	35.3	35.24%	17.04%	0.27	REGULATOR	15"	36"
127	ETLEY AVENUE	LEXINGTON RD OP ETLEY	MFBGC	192.3	50.52%	24.47%	13.32	DIVERSION DAM	12"	6'0"
130	WEBSTER STREET	S OF STORY OP WEBSTER	SF BGC	28.4	72.39%	2.45%	6.51	DIVERSION DAM	12"	24"
131	REG NO 33 - MELWD & FRANKFORT	FRANKFORT AVE @ BGC	SF BGC	50.3	56.36%	2.19%	0.22	REGULATOR W/ RACK BARS	15"	30"
132	REG NO 35 - BROWNSBORO	BROWNSBORO & DRESCHER B	MudF BGC	674.0	43.22%	13.32%	117.66	REGULATOR W/ RACK BARS	16" x 21"	10'11" x 10'0" basket handle
137	CALVARY CEMETARY	CALVARY CEMETARY @ BGC	SF BGC	26.7	56.75%	4.48%	1.1	DIVERSION DAM	8"	12" and 24" - in 24" - out
140	LOCUST STREET	LOCUST SW OF SPRING	MF BGC	75.5	52.07%	6.75%	5.07	RACK BARS	10"	42"
141	BAXTER AVE @ BGC	BAXTER AVE & BGC	SF BGC	16.5	67.68%	2.91%	0	ORIFICE	· -	18"
142	SBR LOGAN ST @ ST CATHERINE	LOGAN & ST CATHERINE	SF BGC	0.0	NA	Interceptor Relief	SBR	SIDE WEIR		24"
144	VANCE ST REGULATOR	S END OF VANCE & 1-64	MFBGC	16.4	49.30%	4.79%	0.61		7.5" x 15.38	42"

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## FIGURE 1-1a BEARGRASS CREEK CSO REGION

								SHAPE / STRUC	SHAPE / STRUCTURE			
cso	CSO NAME	LOCATION	RECEIVING STREAM	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	PERCENT TREE COVER	ANNUAL OVERFLOW ESTIMATE (MG/YR)	OVERFLOW TYPE	OUTLET SIZE	INTERCEPTOR SEWER		
145	POINT PUMP STATION	POINT PUMP STATION	SF BGC		NA	Interceptor Relief		SANITARY AND STORM PUMPS BASED ON WETWELL LEVELS			ELIMINATE	
146	SNEADS BRANCH DIVERSION	SWAN ST S OF BGC	SF BGC	724.6	51.43%	2.60%	91.68	RACK BARS	18"	7'0"	ACTIVE	
147	SWAN STREET DIVERSION	SWAN ST N OF BGC	SFBGC		55.71%	4.26%	1.3	ORIFICE	<del>                                     </del>	36"	ACTIVE	
148	EASTERN PKWY DIVERSION	EASTERN PKWY E OF BGC	SF BGC	24.9	37.04%	22.75%	0.27	DIVERSION DAM	8"	24"	ACTIVE	
149	DRY RUN DIVERSION	KENTUCKY STREET & ST PAUL CT	SF BGC	225.8	NA	0.14%	6.9	DIVERSION DAM	48" x 33"	8'6"	ACTIVE	
151	REG NO 5 - CASTLEWOOD	BGC & CASTLEWOOD DELL	SF BGC	232.5	43.31%	19.67%	143.91	REGULATOR W/ RACK BARS	24"	66"	ACTIVE	
152	REG NO 7 - SOUTHEASTERN	BGC & RUFER AVENUE	SF BGC	260.6	51.94%	13.79%	34.4	REGULATOR W/ RACK BARS	18"	7'0"	ACTIVE	
153	COOPER STREET	LEXINGTON & COOPER	SF BGC	41.7	54.12%	3.24%	7.15	DIVERSION DAM	8"	36"	ACTIVE	
154	MELLWOOD @ SCHOEFFEL	MELLWOOD AVE & EDWD POND BR	MudF BGC	31.0	49.52%	3.14%	1.53	DIVERSION DAM	12" & 15"	48"	ACTIVE	
162	BEALS BRANCH HW REG	ON MFT S OF LEXINGTON	MF BGC		NA	Interceptor Relief		REGULATOR	24"	24"	ELIMINATED	
166	BEALS BRANCH SAN DIV	LEXINGTON RD & I-64	MF BGC	681.1	40.20%	11.42%	16.32	DIVERSION DAM W/ RACK BARS	24"	10'3" semi- elliptical	ACTIVE	
167	BROWNSBORO LAT NO 2	BROWNSBORO & DRESCHER B	MudF BGC	11.0	NA	13.32%	0	DIVERSION DAM	15"	24"	ACTIVE	
172	ADAMS STREET	ADAMS ST & I-64	OR	13.7	44.78%	0.29%	0.17	SIDE WEIR	10"	36"	ACTIVE	
174	SBR GOSS & BOYLE	GOSS AVE & BOYLE ST	SF BGC	169.6	NA	Interceptor Relief	2.1	SIDE WEIR	54"	7'0"	ACTIVE	
179	KENTUCKY ST SEWER OVFL	KENTUCKY ST & ST PAUL CT	SF BGC	461.8	NA	0.14%	0.08	SIDE WEIR	8'6"	8'0" - in 9'6" - out	ACTIVE	
180	SBR ORMSBY AVE RELIEF	ORMSBY & CLAY	SF BGC	2.8	NA	Interceptor Relief	0.00	SIDE WEIR	30"	36"	ACTIVE	
182	SBR SHELBY & BURNETT	BURNETT W OF SHELBY ST	SF BGC	147.3	NA	Interceptor Relief	11.35	SIDE WEIR	60"	7'0" semi-elliptical - in 60" - out	ACTIVE	
183	SBR ALEXANDER & KESWICK	ALEXANDER & KESWICK	SF BGC	3.2	NA	Interceptor Relief	0.00	HIGH LEVEL PIPE		18"	ACTIVE	
184	SBR FETTER & ALEXANDER	FETTER & ALEXANDER	SF BGC	109.3	NA	Interceptor Relief	0.29	SIDE WEIR	54"	6'0" semi-elliptical	ACTIVE	
185	SBR SHELBY & KESWICK	SHELBY & KESWICK	SF BGC	145.8	NA	Interceptor Relief	1.34	SIDE WEIR	48"	6'6" semi-elliptical	ACTIVE	
186	SBR LOGAN & OAK	LOGAN & OAK	SF BGC	0.0	NA	Interceptor Relief	0.00	SIDE WEIR	18"	18"	ACTIVE	
187	SBR SHELBY & CAMP	SHELBY & CAMP	SF BGC	5.2	NA	Interceptor Relief	0.00	SIDE WEIR	15"	18"	ACTIVE	
188	SBR SHELBY & CLAY	SHELBY & CLAY	SF BGC	14.7	NA	Interceptor Relief	0.00	SIDE WEIR	21"	20"	ACTIVE	
205	SBR MORGAN STREET RELIEF	MORGAN & HOERTZ	SFBGC	9.5	NA	Interceptor Relief	0.00	HIGH LEVEL PIPE		30"	ACTIVE	
206	CHEROKEE PARK @ SPRING DR	CHEROKEE RD & SPRING DR	MF BGC	464.7	47.06%	17.94%	88.89	DIVERSION DAM	8"	87"	ACTIVE	
209	CHEROKEE PK @ PARK BD RD	CHEROKEE PK @ PARK BD RD	MF BGC	105.0	41.96%	22.16%	5.12	DIVERSION DAM	12"	36"	ELIMINATED	
				7,098.4		8.27%			14		···· ··· · · · · · · · · · · · · · · ·	

## FIGURE 1-1b OHIO RIVER NORTH CSO REGION

							<b>_</b>	Shape	/ Structure	
cso	CSO NAME	LOCATION	RECEIVING STREAM	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	PERCENT TREE COVER	ANNUAL OVERFLOW ESTIMATE (MG/YR)	OVERFLOW TYPE	Outlet Size	INTERCEPTOR SEWER
019	34th STREET PS	34th & RUDD	OR	1,192.4	46.01%	0.00%	95.45	DIVERSION DAM	24"	11'6"
022	FOURTH ST PS	FOURTH & MAIN	OR	95.2	93.03%	0.00%	7.45	DIVERSION DAM	30"	
023 026	ORI @ 4th ST PS CRD 6th & BROADWAY	FOURTH & MAIN	OR		NA NA	Interceptor Relief	0.85	SIDE WEIR		96" x 96"
028	CRD 7th & BROADWAY	6th & BROADWAY	OR	8.4	93.18%	0.00%	0	SIDE WEIR		36"
027	CRD 6th & YORK	7th & BROADWAY	OR	10.1	91.24%	0.00%	0	SIDE WEIR		42"
028	CRD 8th & YORK	6TH & YORK 8th & YORK	OR OR	6.1	92.00%	0.00%	0.08	SIDE WEIR	36"	42"
030	CRD 9th & YORK "A"		OR OR	0.0	NA 70.50%	Interceptor Relief	2.94	SIDE WEIR		60"
030	CRD 6th & BRECKINRIDGE	9th & YORK 6th & BRECKINRIDGE		32.6	79.63%	0.00%	1.46	SIDE WEIR		54''
031	CND OUT & BRECKINKIDGE	bill & BRECKINRIDGE	OR	3.8	75.43%	0.00%	0	SIDE WEIR		30"
032	CRD 4th & BRECKINRIDGE	4th & BRECKINRIDGE	OR	6.4	81.72%	0.00%	0	SIDE WEIR	36"	24" and 27" - in 18" - out
033	CRD ON YORK E OF 4th	ON YORK E OF 4th	OR	4.3	86.84%	0.00%	0.01	SIDE WEIR	36"	30" x 39" egg
034	CRD 4th & YORK	4th & YORK	OR	5.1	81.95%	0.00%	1.41	SIDE WEIR	36"	30" x 45" egg
035	CRD 2nd & BROADWAY NO 1	2nd & BROADWAY	OR	0.0	NA NA	Interceptor Relief	0	SIDE WEIR	36"	36" x 54" egg
036	CRD 3rd & BROADWAY	3rd & BROADWAY	OR	20.0	87.24%	0.00%	0.32	SIDE WEIR	36"	30" x 45" egg
038	CRD 5th & BROADWAY	5th & BROADWAY	OR	9.5	84.95%	0.00%	0.004	SIDE WEIR	5'5" x 8'1.5" inverted egg	30"
049	PRESTON ST	PRESTON N OF JACKSON	OR		NA	Interceptor Relief		HIGH PIPE	1	18"
050	12th STREET	12th ST N OF MAIN	OR	36.3	84.73%	0.00%	7.09	DIVERSION DAM	16"	
051	11th STREET	11th ST N OF MAIN	OR	6.3	93.99%	0.00%	0.36	DIVERSION DAM	8"	
052	10th STREET	10th ST N OF MAIN	OR	8.7	80.61%	0.00%	0.52	DIVERSION DAM	10"	
053	8th STREET	8th ST N OF MAIN	OR	34.1	90.77%	0.00%	5.61	DIVERSION DAM	12"	
054	7th STREET	7th ST N OF MAIN	OR	7.1	94.12%	0.00%	0.96	DIVERSION DAM	8"	
055	6th STREET	6th ST N OF MAIN	OR	18.0	87.68%	0.00%	2.8	DIVERSION DAM	12"	
056	5th STREET	5th ST N OF MAIN	OR	22.0	89.42%	0.00%	4.6	DIVERSION DAM	12"	
057	FIRST STREET OVFL WEIR	1st & MAIN	OR		NA	Interceptor Relief	0	HIGH PIPE		
058	PRESTON ST OVFL WEIR	PRESTON & MAIN	OR	105.4	79.67%	0.05%	5.26	SIDE WEIR		
150	8th ST @ COMMON PLACE	8th ST & COMMON PLACE	OR	1.8	NA	0.00%	4.26	DIVERSION DAM	8"	
155	ROWAN ST @ 12th ST	ROWAN & 12th	OR	11.9	70.00%	0.00%	0.07	DIVERSION DAM	8"	
156	6th & WASHINGTON SAN DIV	WASHINGTON W OF 6th	OR		NA	Interceptor Relief	0	DIVERSION DAM	6"	
159	CEMED IN ALLEY CAN DO!	40T CT DTM/AAADA O AAA DKET			NA	Interceptor Relief				
160	SEWER IN ALLEY SAN DIV	1ST ST BTW MAIN & MARKET	OR	2.0	94.64%	0.00%	0.22	DIVERSION DAM	6"	
161 178	MARKET ST SAN DIV CRD 9th & YORK "B"	FIRST & MARKET 9th & YORK	OR OR	2.5	94.49%	0.00%	0.19	DIVERSION DAM	8"	
181	CRD 2nd & BROADWAY NO 2		OR	29.7	82.10%	0.00%	0.14	SIDE WEIR		
190	SEVENTEENTH ST SAN DIV	2nd & BROADWAY 17th ST & NW PKWY	OR OR	22.6	87.97%	0.00%	0.38	SIDE WEIR		
190	CRD S 6th & GARLAND	The state of the s	OR OR	145.4	66.36%	0.00%	10.57	DIVERSION DAM	24"	
193	CRD S 6th & GARLAND  CRD S 6th & KENTUCKY	6th & GARLAND 6th & KENTUCKY	OR OR	9.0	55.11%	0.00%	0.22	SIDE WEIR		
194	CRD S OIN & KENTUCKY  CRD S OAK W OF 4th	OAK ST W OF 4th ST	OR OR	22.7	57.99%	0.00%	0.15	SIDE WEIR		
195	CRD S OAK W OF 4th		OR OR	7.2	NA 72 240/	Interceptor Relief	0	SIDE WEIR		
196	CRD S 3rd & OAK	4th & OAK 3rd & OAK	OR	7.3	72.31%	0.00%	0	SIDE WEIR		
197	CRD S 3rd S OF OAK	3rd ST S OF OAK ST	OR OR		NA NA	Interceptor Relief	1.61	SIDE WEIR		
198	CRD S 3rd & ORMSBY	3rd & ORMSBY	OR OR	12.0	NA 60.60%	Interceptor Relief	0.58	SIDE WEIR		
199	CRD S 3rd N OF MAGNOLIA	3rd ST N OF MAGNOLIA	OR OR	13.0	60.69%	0.00%	1.82	SIDE WEIR		
100	OND O SIGN OF MIAGNOLIA	SIG ST IN OF MAGNOLIA	UK	<u> ]                                  </u>	NA	Interceptor Relief	0.01	SIDE WEIR		

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## FIGURE 1-1b OHIO RIVER NORTH CSO REGION

F								Shape /		
cso	CSO NAME	LOCATION	RECEIVING STREAM	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	PERCENT TREE COVER	ANNUAL OVERFLOW ESTIMATE (MG/YR)	OVERFLOW TYPE	Outlet Size	INTERCEPTOR SEWER
200	CRD S 3rd & MAGNOLIA	3rd & MAGNOLIA	OR	10.3	37,69%	0.00%	0.25	SIDE WEIR		
201	CRD S 5th & KENTUCKY	5th & KENTUCKY	OR		NA	Interceptor Relief		SIDE WEIR		
202	CRD S ORMSBY W OF 3rd	ORMSBY W OF 3rd ST	OR	5.3	68.36%	0.00%	0.07	SIDE WEIR		
203	CRD S 4th & ORMSBY	4th & ORMSBY	OR	14.2	44.66%	0.00%	0.07	SIDE WEIR		<u> </u>
207	2nd & JEFFERSON	2ND & JEFFERSON	OR	2.5	NA NA	Interceptor Relief	0	DIVERSION DAM	011	
208	12th & JEFFERSON	12th & JEFFERSON	OR	11.2	45.70%	Interceptor Relief	<del>-</del>	DIVERSION DAM	12"	
				1,943.5		0.00%	Ü	BIVERSION DAIVI	12"	

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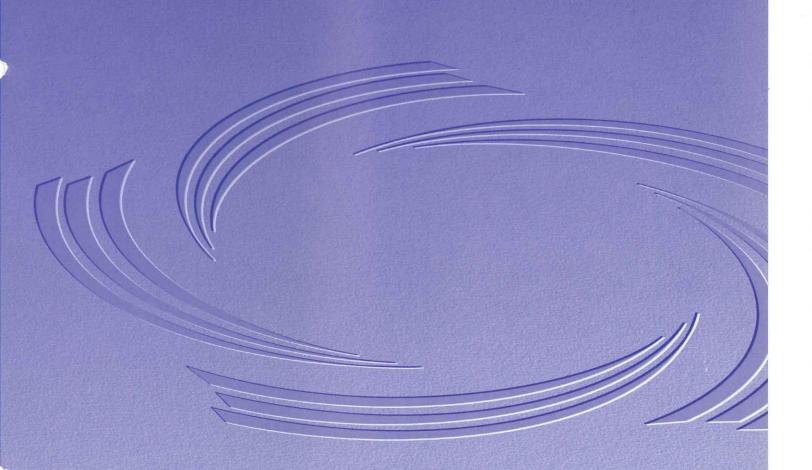
## FIGURE 1-1c OHIO RIVER WEST CSO REGION

			<u> </u>					Shape		
cso	CSO NAME	LOCATION	RECEIVING STREAM	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	PERCENT TREE COVER	ANNUAL OVERFLOW ESTIMATE (MG/YR)	OVERFLOW TYPE	Outlet Size	INTERCEPTOR SEWER
015	SOUTHWESTERN PS	BELLS LN & I-264	OR	7,441.3	47.32%	0.40%	844.83	DIVERSION DAM	2-60"	18'4" x 27'6" inverted
016	MILES PARK BYPASS	S OF 45th & WINNROSE	OR	0.0	NA	Interceptor Relief	n	SIDE WEIR	4.00	egg
104	SW PKWY SEWER @ BROADWAY	SW PKWY & BROADWAY	OR	62.0	43.58%	0.00%	6.29		10"	48"
105	WESTERN OUTFALL @ BROADWAY	BROADWAY @ SW PKWY	OR	1,893.0	55,46%	0.00%		DIVERSION DAM	24"	48"
189	NORTHWESTERN SAN DIV	SHAWNEE PARK FLOOD PS	OR	1,148.7	45.32%		351.42	DIVERSION DAM	24"	11'9"
191	ALGONQUIN PKWY SAN DIV	SOUTHWESTERN PS	OR	339.8		0.00%	553.06	SIDE WEIR	3'6"	13'6" x 9'0"
210	45th STREET-GREENWOOD	S OF 45th & WINNROSE			39.92%	0.00%	4.17	DIVERSION DAM	24"	8'0"
211	TOUT OTTLE TOTAL TAVALOUD	3 OF 4301 & WINNRUSE	OR	166.7	38.96%	0.00%	21.16	DIVERSION DAM	10"	66"semi-elliptical
<u> </u>					55.86%	0.08%				oo bottu ombaodi
			Ì	11,051.5		0.07%				

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## SECTION 2: NMC 1 - PROPER OPERATION AND MAINTENANCE PROGRAM

#### 2.1 INTRODUCTION

Per the Guidance manual, proper operation and regular maintenance of the combined sewer system (CSS) and combined sewer overflow (CSO) outfalls should consist of a program that clearly establishes operation, maintenance and inspection procedures to ensure that a CSS and wastewater treatment facility will function in a way to maximize treatment of combined sewage and comply with KPDES permit limitations. Implementation of this minimum control will reduce the magnitude, frequency and duration of CSOs by enabling existing facilities to perform as effectively as possible.

#### 2.2 PROGRAM OVERVIEW

From a NMC perspective, proper operations and maintenance is intended to prevent dry weather overflows and to reduce the volume, frequency and impact of wet weather flow. This message has been communicated across the district to all staff with responsibilities for operation and maintenance of the wastewater collection, transmission and treatment system. With this common understanding, MSD has created an operations and maintenance program that consistently achieves a very high standard.

Utilizing an asset management approach, programs and activities for proper operation and maintenance include facility characterization and inventory, inspections, CCTV, structural assessments, cleaning, preventive and corrective maintenance, staff training, facility improvements, information management, emerging technologies and enhanced communication systems. MSD maintains a rolling stock of over 600 vehicles and equipment, including combination sewer cleaners, jet rodders (flushers), backhoes, dump trucks, tanker trucks, portable pumps, portable generators, Atlas machines, and other equipment suitable for performing necessary maintenance activities.

## 2.3 SYSTEM CHARACTERIZATION

At the MFWTP, individual process areas have been characterized to determine impact of individual treatment units being out of service. Process outages are scheduled at optimal times to minimize impact on plant performance and to coincide with other planned maintenance. This information is used to increase the amount of flow processed at the plant during wet weather.

Critical pump stations within the CSS have robust telemetry and SCADA capability and are monitored 24 hours a day, 7 days a week with set points for alarm conditions established, see Figure 2-2. In addition, all critical stations are visited on a daily basis. Operational conditions are displayed in real time and some functions can be controlled remotely. Detailed SOPs have been developed and are routinely reviewed for accuracy and opportunities to enhance performance, particularly during wet weather conditions.

Five pump stations are designated as critical pump stations, as shown on Figure 2-1, including two combined sewer pump stations and three combination flood protection and combined sewer pump stations. The two combined sewer pump stations are: (1) Southwestern and (2) Nightingale. Refer to Items 2-1 and 2-2 of the NMC Supplemental Information for example SOPs. The three combination flood protection and combined sewer stations are (1) 4<sup>th</sup> Street, (2) 34<sup>th</sup> Street, and (3) Starkey (formerly Buchanan). Refer to Items 2-3 and 2-4 of the NMC Supplemental Information for example SOPs.



The intricate system of interceptors, main line sewers, catch basins, CSOs and related appurtenances have been inventoried and operational aspects have been documented. Routine inspections are performed to ensure proper operation and maintenance is conducted and that overflows are minimized.

#### 2.4 ORGANIZATIONAL RESOURCES AND RESPONSIBILITIES

MSD is organized into separate divisions that work and function collectively, although each has specific and distinct duties within their areas of responsibility. The I&FP and OPS Divisions have primary responsibility for proper operation and maintenance of critical wastewater collection, transmission and treatment assets. Additionally, the Divisions of Engineering, RMS, IT and Physical Assets provide support functions to ensure proper operation and maintenance of critical assets. Refer to the MSD Organizational Chart in Appendix A for details.

## 2.4.1 Infrastructure Management - I&FP Division

At the executive level, the Senior Maintenance Manager is responsible for the day-to-day activities of the I&FP Division. The senior level management positions within this Division are Wastewater/Stormwater Manager, Preventive Maintenance and Support Manager, and Support Administrator, which report to the Senior Maintenance Manager. The departments are subdivided by area of responsibility and each has supervisors, crew leaders and utility workers that make up the workforce.

Overall responsibilities of the I&FP Division are to provide sanitary, drainage and flood protection services in the Metro area, serving a population of approximately 693,000. Sanitary program services include planned and unplanned maintenance activities related to sewer lines, manholes, catch basins, CSO outfalls and flood protection facilities. Stormwater program services include maintenance activities on drainage facilities throughout the collection system. Flood protection services include maintenance of three sanitary and combination flood pumping stations, nine flood pumping stations, and 29 miles of floodwall and earthen levee.

Responsibilities specific to NMC #1 include routine maintenance activities as follows:

- Pump station inspection and maintenance
- Sewer line inspection and maintenance, including television inspection, sediment and debris removal, root and grease reconnaissance and removal, and repairs
- Inspection and maintenance of siphons and flap gates (tide gates)
- Inspection and maintenance of CSO regulators, solids and floatable control devices, rack bars and diversion dams, and
- · Catch basin cleaning.

The I&FP Division employs over 200 personnel and has an annual budget of approximately \$16 million to facilitate the dedication of staff and equipment across the District.

### 2.4.2 Infrastructure Management - OPS Division

At the executive level, the Engineering/Operations Division Director is responsible for the overall management of the Operations Division. The two departments within this Division are the Morris Forman Wastewater Treatment Plant (MFWTP) and Metro Operations (Metro OPS). The senior level management positions within this division are the Metro Operations Senior Manager, the MFWTP Operations Manager, MFWTP Maintenance Manager and Metro Operations Maintenance Manager. They are responsible for the management and daily



execution of operations and maintenance efforts of the Division. The senior level positions are supported by supervisors, who in turn manage operators, mechanics, electricians, instrumentation technicians and control technicians.

Overall responsibilities of the Operations Division are the operation and maintenance of the six (6) regional wastewater treatment plants, 19 small wastewater treatment plants, 275 pumping and lift stations, 162 miles of force mains, storage basins, and the Real Time Control (RTC) inline storage features of the collection system. This includes the responsibility to identify and document facility limitations as well as initiating the study, design and construction of required improvements, additions, and plant expansions. Additionally, the division is responsible to maximize treatment and storage within the collection system.

Responsibilities specific to NMC #1 include pump station and treatment plant inspection, maintenance and operation activities to ensure the following:

- Optimization of the quality and quantity of treated wastewater in wet weather;
- · Minimal quality and quantity impacts of discharges from permitted CSO locations; and
- Development and implementation of proper operations and maintenance programs for the treatment and pumping facilities.

The Operations Division has an annual budget of approximately \$30 million to facilitate the dedication of staff and equipment across the District. The Division employs approximately 155 personnel, divided between MFWTP and Metro OPS. Treatment plant coverage is provided around the clock.

## 2.4.3 Information Management Systems

MSD utilizes a wide variety of hardware and software to operate the day-to-day business activities associated with wastewater and stormwater collection, conveyance and treatment. Technologies employed range from relatively low-tech hand-held radios to sophisticated telemetered systems. Hardware runs the spectrum from desk top computers to wireless laptops for field usage and software ranges from simple desktop applications to complex integrated systems.

### 2.4.3.1 Louisville/Jefferson County Information Consortium (LOJIC) GIS

The LOJIC GIS contains over 200 spatial data layers that include detailed land surface mapping, property mapping, street centerlines/address ranges, site addresses, floodplains, zoning, sewer networks, water networks, soils, aerial photos and a host of political/administrative service districts. Over 300 users across the partner agencies have been trained in the use of the LOJIC GIS and depend on it for a wide range of mission-critical applications such as land records management, property valuation, community planning, emergency response/911, maintenance of sewer and water networks, flood insurance determination, customer service requests, stormwater modeling, asset workflow management, address assignment, and numerous public access applications via the Internet. A twelve-person technical staff supports overall GIS activities across all LOJIC user agencies. LOJIC staff, housed at MSD offices, provides database management, applications development, products/services, training and system network support for all users.

#### 2.4.3.2 SAP

SAP is an enterprise resource planning product used by MSD for day-to-day financial, human resources and inventory functions. In addition, MSD uses SAP to initiate work requests of an



emergency, corrective or preventive nature at pump stations and treatment plants. The system allows management of preventative and corrective activities (schedules and work orders) for workload balancing, asset management, inventory control, parts procurement and expendable commodity reorders.

## 2.4.3.3 Hansen Asset Management System (Hansen)

MSD utilizes Hansen to record, track and report information concerning the collection, transmission and wastewater treatment plant assets. Critical asset condition assessment data is also maintained in this system. Hansen is also used to enter customer inquires, recording pertinent information regarding the location, customer's name, and nature of the problem; to initiate work orders (WO) against specific assets so that the history of the asset can be updated, tracked and reported; to track response to discharges in the collection system; and, it is integrated with the Geographic Information System (GIS) called LOJIC, to allow users to access a pictorial view of assets.

## 2.4.3.4 Supervisory Control and Data Acquisition (SCADA)

MSD's SCADA system is a process control application that collects data from sensors within the collection system, pump stations, and treatment facilities, and transfers it to a central computer for management and control. The system compares wastewater treatment plant and collection system conditions against established set points. Adjustments are made according to preset routines in order to achieve optimal operating conditions. The components of the SCADA system transmit and receive the data using FM radio networks, cellular dialup, and other data highway and transmission systems.

MSD's central monitoring system for the MFWTP, as well as the Metro Operations group, is located at the MFWTP, and provides total system monitoring, event management, and flow control 24 hours per day, 7 days a week. SCADA enhancements across the District continue to automate functions that allow labor resources to be applied more effectively to technical problem solving, preventive maintenance and asset management activities.

### 2.4.3.5 Rain Gauge Network

MSD personnel utilize the rain gauge network to track the progress of storms and to plan for required resources. The system was initiated in 1991 as a joint effort between MSD and the United States Geological Survey (USGS). The rain gauge system serves two primary functions. First, it is used to calibrate MSD's OneRain rainfall prediction application along with NEXRAD rainfall data to provide rainfall predictions at least two hours in advance. Second, it allows real time reporting on the amount of rainfall in a geographic area. This information is utilized for flash flood emergency preparation and response. The rain gauge network provides geographical coverage of Metro Louisville and Southern Indiana. This network allows for efficient staging, scheduling and utilization of personnel, equipment and other resources.

Rainfall conditions are continuously telemetered to MSD's central computer from each of the gauging stations. Information regarding rainfall in the service area can be obtained from MSD's website at <a href="http://www.msdlouky.org/aboutmsd/rainfall.cfm">http://www.msdlouky.org/aboutmsd/rainfall.cfm</a>. Reports can be queried from the database for each of the gauging stations.

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## 2.4.4 Information Technology Support

The Information Technology Division provides enterprise system support. Those departments that provide this support within the Division are LOJIC, Information Systems, GIS Services and Records, and Customer Relations.

The Louisville/Jefferson County Information Consortium (LOJIC) is a multi-agency partnership with the mission of building and maintaining a comprehensive Geographic Information System (GIS) to serve all of Louisville and Jefferson County, Kentucky. A 12-person technical staff supports overall GIS activities across the LOJIC user agencies. LOJIC staff, housed at MSD offices, provides database management, applications development, products/services, training and system network support for all users.

The Information Systems group of 17 technical staff supports and maintains MSD's information technology systems, including the network, hardware and software for MSD and its partner agencies, for business and engineering processes. Information Systems staff also develops and maintains in-house applications to support MSD's functions.

The GIS Services and Records department has a 13-person staff that supports MSD's GIS and record drawing activities across all of MSD. GIS Services and Records staff provides direct user support and training for the Hansen and eB software as well as GIS applications development, database management, custom mapping and creation and maintenance of MSD's GIS layers.

The Customer Relations Department employs 19 staff members who provide support for the Customer Call Center and direct customer contact that come to MSD to conduct business. They provide 24/7 telephone support and after 5:00 PM and on weekends answer all 311 calls for Louisville Metro.

## 2.4.5 Engineering and Regulatory Support

The Engineering Division provides for the development of plans, specifications, contracts, proposals, as well as the capital budgeting and planning efforts required to build, operate and maintain wastewater collection and treatment facilities. The Engineering Division provides guidance on design and construction of aging infrastructure that cannot be repaired or replaced with MSD personnel and equipment.

The RMS Division provides the oversight and execution of regulatory issues within MSD. Primary areas of responsibility include wet weather discharge abatement and associated capital planning, laboratory analysis services, stream sampling and sewer flow monitoring, along with industrial pretreatment monitoring and compliance. This division is also responsible for the management of initiatives where interaction with different regulatory agencies is required. RMS maintains a programmatic presence, thereby providing continuity and consistency with submittals, plans, agreements, reporting requirements, permitting, and other commitments. RMS leads the development of Consent Decree-related programs that will be implemented throughout MSD.

#### 2.4.6 Equipment Support

The Physical Assets Division, Fleet Services Department, operates a full service center where maintenance of vehicles, equipment, generators, pumps and related appurtenances is conducted. The I&FP and Operations Divisions utilize this equipment to mitigate the effects of system disruptions and wet weather events.



#### 2.4.7 Inter-Divisional Coordination

The I&FP, Engineering, RMS and Operations Divisions have established a partnering relationship that incorporates both a knowledge of the regulatory requirements and applications of available technologies with an in-depth working knowledge of critical assets within the CSS. The output of these collective efforts often identifies the need for capital projects, which are then incorporated into the overall MSD capital budgeting, design and construction program by the Engineering Division. This has resulted in improved utilization of available budget resources. Additionally, the divisions work closely together to manage system and equipment repairs and replacements that is beyond the scope of service that any division may be able to provide with its own resources.

#### 2.5 CRITICAL ASSET MANAGEMENT: COLLECTION SYSTEM

The EPA Nine Minimum Controls Guidance Manual, identifies the most critical elements of the combined sewer system (CSS) as those facilities that affect the performance of the CSS and/or impact CSO volumes or pollutant levels. MSD has classified the critical pump stations into three groups: combined sewer facilities, flood protection facilities, and combination facilities. Combined sewer facilities pump sewage to the Morris Forman Wastewater Treatment Plant during normal operation in both dry and non-flooding wet weather situations. These particular stations are managed by the Metro Operation Division (Metro OPS). Flood protection facilities are only operated when internal flooding (inside the flood protection levee) occurs due to excessive wet weather or from rising elevation of the Ohio River. Combination pumping stations serve dual roles as both combined sewage pumping and flood protection stations. Both the flood protection and combination facilities are managed by the Infrastructure and Flood Protection Division (I&FP).

An effective strategy for managing collection system assets includes routine review and assessment of completed inspection and cleaning against planned activities. It further entails analyzing inspection and maintenance records to identify recurring problems. Problems identified during inspection generate corrective activities.

#### 2.5.1 Program Management

The I&FP Division is responsible for inspection, root control, and cleaning activities within the collection system, which includes sewer mains, service laterals and manholes. Goals are set annually for various program areas to achieve NMC objectives. Additionally, target areas have been identified and prioritized for cleaning and root control across the district-wide sewersheds.

Root cutting and sewer flushing are the primary methods employed under the sewer cleaning program. Chemical root removal has been undertaken by a contractor to supplement MSD efforts. Grease blockages and debris obstructions are removed as needed. Weekly, monthly, quarterly and year-to-date reports, with associated graphs and charts, are reviewed to measure planned activities against actual performance. Gaps identified through these assessments are the basis of adjustments to the procedures, work flow, personnel assignments, documentation and general program activities.

Various methodologies are utilized to assess CSS performance. Sewer walks and television inspections are conducted to assess sewer structural condition and to determine capacity reduction caused by sediment buildup. Customer calls are grouped and analyzed to determine areas that require attention. Problems encountered during inspection are cataloged according to severity and prioritized for correction.



## 2.5.2 Information Management System Utilization

Collection system asset information is originally created from the record drawings. The graphics are stored in the GIS and the associated attribute information is stored in Hansen. Hansen can then be used to generate work orders for inspection, maintenance and repair activities. Work order data collected during these activities is updated in Hansen by I&FP Administrative Support personnel. If discrepancies in the asset attribute information or new assets are found by field personnel, this information is given to the GIS staff and the asset information is updated in Hansen and in the GIS. This data can then be used to generate reports and maps, which are utilized by I&FP senior management to assess performance.

## 2.5.3 Inspection Activities

For sewer mains, manholes and service laterals, MSD performs both location-based inspection activities and reactive problem-based inspections encountered during daily operational activities. Various methods of inspection are also utilized. Location-based inspections include grease inspections, activities performed in search of illicit connections and/or system defects, and USI sewer walks.

Certain areas within the collection system are predisposed to grease buildup due to pipe configuration or grease trap installations. Under the Fats, Oil, and Grease (FOG) program, reconnaissance is performed at predetermined intervals, ranging from quarterly to annually depending on the historical data, to determine the need for targeted cleaning.

MSD conducts sewershed-wide inspections when evaluating CSO basins for abatement and/or outfall closure alternatives. Closed-circuit television (CCTV) inspection, Totally Integrated CCTV and Sonar (TISCIT), sonar, Fell-41, line lamping, smoke testing and dye testing are used to identify illicit connections and system defects that require mitigation during the closure activities.

Louisville's CSS contains approximately 60 miles of sewer that range from 5 feet in diameter to 17 feet by 27 feet in diameter. These sewers are some of the City's oldest and are constructed predominately of brick and cast-in-place concrete materials. Under safe flow and atmospheric conditions, sewer inspections are performed using confined space entry techniques by trained personnel. Condition reports generated during these inspections contain observations and measurements with corrective work orders generated and repairs scheduled.

In addition to these proactive inspection routines, CCTV data is also captured in response to problems encountered during daily operational activities.

#### 2.5.4 Maintenance Activities

Main sewer line and property service connection repairs were analyzed over a five-year period from 1999 through 2004. The repair history revealed areas that were prone to root intrusions and subsequent debris deposition that led to system failures. I&FP management graphically analyzed the data and found concentrated areas where these repairs had been made. This led to selecting twenty-five areas with corresponding sub-areas and prioritizing them according to frequency of repair.

MSD has designated resources to clean 300 miles of sewer annually under the district-wide preventive maintenance program. Utilizing equipment capable of cleaning 6-inch to 15-inch sewer lines, MSD is able to clean 80 percent of the total length of sewer lines owned by the District. This corresponds to nearly 50 percent of the combined sewer lines within the CSS that can be cleaned utilizing internal forces. The cleaning cycle for the sewers 6-inch to 15-inches is



planned for an 8-year return interval and is to be further evaluated as part of the CMOM Program. Some lines are cleaned more frequently than the target return interval based on available historical data. Refer to Item 2-7 of the NMC Supplemental Information for an overview of operational procedures. Refer to Item 2-8 for documentation guidance.

Larger sewer line cleaning is performed under contracted services as needed. The determination of need can be generated by inspections as outlined in Section 2.5.3 of this document or by Interceptor Condition Assessment as outlined in the CMOM Program dated May 12, 2006.

MSD has cleaned 38.3, 60.4, and 49.9 miles of sewer in the CSS for 2004, 2005, and 2006, respectively. This represents an approximate proportional share of the total lines of these sizes to the total length of the lines of similar sizes. The sewer lines cleaned during this period are shown on Figure 2-3. An example map of a sewer flushing area and an example work order for this activity are Items 2-9 and 2-10, respectively.

## 2.5.5 Training Program

The MSD Utility Program provides specific training in the proper operation and maintenance of all equipment utilized for maintenance of the collection system. Specific equipment classes are conducted for jet rodders (flushers) and combination sewer cleaners (vactors), as well as CCTV equipment. Comprehensive skill training is also provided for Confined Space Entry, CPR, First Aid, and other training/certifications needed for sewer entry. As new equipment and technologies are acquired, the training modules and manuals are updated.

#### 2.6 CRITICAL ASSET MANAGEMENT: CATCH BASINS

Catch basin cleaning is an efficient and cost-effective method of preventing the transport of sediment and pollutants to receiving waters through CSOs. Routinely removing sediment and decaying debris from catch basins reduces the potential of offensive odors, along with the potential for reducing the amount of suspended solids and oxygen-demanding substances that might exit the CSS into a receiving stream.

Recurring inspection, cleaning and maintenance activities should take into account the watershed characteristics of each CSO sewershed area. Areas of high organic loading may require more frequent cleaning for optimal system performance.

### 2.6.1 Program Management

MSD personnel manage this program with the specific objective of promptly removing material from the catch basins to facilitate a free-flowing system during rain events and to prevent odors from causing a public nuisance. There are thousands of catch basins within the CSS. These catch basins are cleaned approximately every 15 months, with ten of thousands of tons of debris removed from the system annually. In addition, some catch basins will receive additional cleaning throughout the year upon request by customers. Refer to Item 2-11 of the NMC Supplemental Information for a summary of catch basins by area.

### 2.6.2 Information Management System Utilization

The catch basins in the combined sewer area have been divided up into asset work groups. Group work orders are generated in Hansen when an area is scheduled for cleaning. Worksheets that contain the work order information from Hansen are generated and supplied to Utility Workers who clean catch basins daily. These worksheets are used to record which catch

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basins are cleaned and to track the amount of material removed from the system. Work order data collected on these worksheets is updated in Hansen. To supplement the routine cleaning work orders, additional work orders are created in Hansen based on customer requests. Weekly reports are generated detailing the number of catch basin cleanings performed. The GIS is used as a tool to provide Customer Relations information on the cleaning schedules for the catch basin districts. This information can be relayed to customers as requests are received.

#### 2.6.3 Inspection Activities

Catch basins are inspected as part of MSD's comprehensive cleaning program. From a NMC perspective, it is important to ensure that capacity is preserved, and the system that collects debris from roadways and runoff is intact and fully functional. A schedule exists to provide for cleaning catch basins in the CSS, as defined above. Conditions are verified following assessment, with follow-up activities initiated promptly. Grates are replaced and other repairs performed as needed.

#### 2.6.4 Maintenance Activities

Standard procedures are utilized for catch basin inspections and cleaning. Refer to Item 2-12 of the NMC Supplemental Information for detailed procedures. Refer to Item 2-13 for an example catch basin cleaning work order.

Damaged or broken catch basin grates are replaced immediately, if there is an available grate in stock. If the catch basin cannot be repaired upon inspection, a work order is generated in Hansen to perform further inspection and determine the specific course of action needed to repair the basin. If structural repairs are needed, a catch basin repair work order is generated and it is dispatched to the area supervisor to be repaired as soon as possible. In addition, MSD fabricates grates and catch basin parts if they are not commercially available.

## 2.6.5 Training Program

The MSD Utility Program provides specific training in the proper operation and maintenance of all equipment utilized for the maintenance of catch basins, specifically Atlas machines (catch basin cleaners) and combination sewer cleaners (vactors). As new equipment and technologies are acquired, the training modules and manuals are updated.

### 2.7 CRITICAL ASSET MANAGEMENT: CSOs

Management of CSO assets within the CSS should include site-specific inspection, maintenance, cleaning and repair regimes, as well as provide for adequate documentation of these program activities. Standard protocols should provide sufficient detail of the necessary activities to properly maintain these facilities, prevent dry weather overflows and minimize annual overflow volume.

## 2.7.1 Program Management and Quality Control

There are 113 active CSO outfalls. Standard protocols guide the inspection, cleaning and maintenance activities for these outfalls and appurtenant structures. In general, similar structures (dams with rack bars or regulators, for example) will require like inspection and maintenance routines. Complex solids and floatable devices require more intense maintenance than the static, less complex devices. Regulators, siphons, and flapgates each have specific activities depending on their location within the system.



MSD generally inspects the CSOs and related appurtenances on a weekly basis. CSOs, regulators, flapgates, siphons, and solids and floatable devices are grouped by the similar cleaning and maintenance requirements for each type of structure. When defects in structures are discovered during an inspection, interdivisional collaboration occurs to define and implement the needed repairs.

Managers meet with the CSO personnel on a regular basis. These meetings are used to keep staff current of NMC or other requirements/developments, make changes in assignments and solicit input from staff to determine the best management practice for a particular activity. Reports are generated and data analyzed to measure planned/programmed activities against actual completed work.

### 2.7.2 Information Management System Utilization

Hansen is utilized to store, manage, collect and retrieve data for all assets in the CSS. CSOs are identified as assets in Hansen. Custom tables associated with the Hansen asset inventory for CSOs indicate where flapgates (rubber or iron), regulators and solids and floatable devices are installed. Hansen is utilized to schedule work orders and record data for inspection and maintenance activities and subsequent work performed. Work orders are created for debris removal and repairs made to those structures. Activities performed on solids and floatable devices, flap gates, and regulators, which are part of a specific CSO asset, are captured within Hansen.

## 2.7.3 Inspection Activities

Inspection of the CSOs and related structures are performed on predetermined intervals, specific to the particulars of the structure, including location, size of pipe, etc. These intervals were determined using manufacturers recommendations and operational experience. The inspection frequency for the assets in this category is as follows:

- Regulators are inspected monthly;
- Siphons in the CSS are visually inspected monthly for accumulation of debris/blockages;
- CSOs and related appurtenances such as solids and floatable devices, flapgates, and
  rack bars are inspected weekly. There are some structures within the system that are
  readily accessible due to changes in the permanent pool of the Ohio River and/or safety
  concerns, these locations are treated on an individual basis and will deviate from the
  general schedule.

If debris /obstructions are encountered during inspection, work orders are executed in Hansen and crews/workers dispatch to perform necessary removal or cleaning.

#### 2.7.4 Maintenance Activities

Because of the nature of these activities, inspection and maintenance tasks generally occur during the same visit. In the event that the inspection crew needs additional equipment to perform the necessary maintenance or repairs, the required activity may not occur on the same day. Refer to Item 2-14 of the NMC Supplemental Information for specific procedures related to these activities. Examples of cleaning and maintenance activities performed on the CSOs and related appurtenances are as follows:

- Regulators are cleaned, lubricated and serviced during inspection or more frequently as needed:
- During CSO inspections, crews remove debris using small tools (rakes, shovels, etc.);

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- Solids and floatable control devices are cleaned during inspection following rain events, utilizing a flusher to wash debris from the screen into the collection system for treatment/removal at the treatment works; and
- Siphons are cleaned as-needed following inspections. Typically, debris is vactored and sewer lines are flushed to insure they are clean and free-flowing.

If the CSO crew determines that the amount of debris could potentially cause a dry weather overflow, they take immediate action to rectify the situation.

## 2.7.5 Training Program

The Utility Program is used to train employees on the use of appropriate procedures, safety guidelines, and operation of equipment used for inspection and maintenance activities. In addition, there are CSO training materials entitled "CSOs and Regulators Utility Class and Test Study Guide" that specifies some training and provides schematics of structures for training purposes. New personnel are given procedures, books that contain CSO details, location and schematics and are trained by existing personnel on the specific job requirements. MSD staff and consultants also hold training sessions to cover the specifics of any solids and floatable structures installed such as cleaning method, equipment and frequency.

### 2.8 CRITICAL ASSETS: PUMP STATIONS

Operation and maintenance of pump stations involves increasingly more complex activities, particularly in order to achieve a proactive response to CSO abatement. In the past, most process enhancements and technology advances were primarily the result of mechanical improvements. The present level of technology and process optimization involves an increasing level of investment in Instrumentation and Control (I&C) systems, along with an associated level of sophisticated electrical systems management.

These systems require a local utility to aggressively recruit, promote and retain skill sets capable of cost effective maintenance of critical control functions, along with the conventional operations and maintenance skills typically associated with wastewater utility management.

These assets also require a rigorous planning and work scheduling effort to ensure the execution of proper preventive and corrective maintenance activities, allowing these facilities to operate at optimal levels. These efforts minimize the possibility of deteriorated performance which could negatively impact the magnitude, frequency and duration of CSOs.

At MSD, pump station responsibility is divided between two divisions, based on the type of facility. The pump stations associated with the flood protection system are managed within the I&FP Division. The remaining pump stations across the service area are the responsibility of the Operations Division. Within the CSS, there are 2 combined sewer pump stations and three combination sanitary/flood protection stations.

#### 2.8.1 Program Management

Systems, procedures and tracking must be in place to ensure work is identified, prioritized and assigned, with contingencies developed to respond to unusual conditions. Monthly evaluations are performed by the maintenance managers that critique the performance of each work group in the context of preventive and corrective maintenance functions. This critique is performed using graphical representation of data archived in SAP and indicates work scheduled, assigned, completed and incomplete. Maintenance planners also track the work orders that are issued and completed, generating reports and charts that show the specific work each crew has been



assigned. This allows each team to trend their respective progress and make adjustments as needed to meet department goals.

MSD has reviewed maintenance records/statistical data and can confirm that the frequency of repetitive problems has decreased. For example, a review of performance data identifies a downward trend associated with grease and debris accumulation. This is a result of an increase in the number of PM routines for pump station cleaning. Telemetry and continuous monitoring of each pump station provide an early warning and prompt notification of maintenance needs. The SCADA system allows for site specific interrogation of facilities to allow scheduling of maintenance needs on a routine basis. The failure codes used in the computerized maintenance management system (CMMS) allow for discrete analysis of work performed by category. For example, a preventive maintenance program for FOG control requires inspection before and after cleaning occurs, and the cleaning frequency is adjusted based on observed conditions that indicate the efficacy of the work.

Operations and Maintenance (O&M) personnel are cross trained on a scheduled routine basis to achieve redundancy in expertise, provide for employee absences, and the greatest utilization of resources, when manpower needs increase in a specific area, as a result of an event or change in conditions. This cross training schedule is developed and implemented based on need, within a specific work group. Employees are required to maintain a minimum level of certifications in process areas (pump stations) or they face demotion. Maintenance personnel are more easily interchanged between locations, and are frequently reassigned in order to expand their base of knowledge and expertise.

The training that personnel receive includes both "on the job training" and successful demonstration of a mastery of the essential job elements, which are specifically identified in the Cross Training Guidelines (see attachments). These guidelines are specifically reviewed for applicability during the review process with each respective employee's supervisor, which is required for certification. In addition, the construction and startup of any new or upgraded facilities, also requires submittal of new or revised SOPs.

### 2.8.2 Information Management System Utilization

Two systems are primarily utilized to initiate, document and track inspection, cleaning, maintenance and repair activities through work orders. These systems are Hansen and SAP.

The Hansen system is utilized to generate work orders for the cleaning of these stations. Typically an activity code of "Vactor/Flush" is used in Hansen to capture the cleaning. The work order may contain specifics about the amount, type or origin of grease and other debris found at the station.

PM work orders are generated within SAP for both O&M staff. Supervisors identify any repetitive tasks for inclusion as a PM function, specifically those that will extend the useful life of the asset, or maintain the uninterrupted operation of the equipment.

## 2.8.3 Inspection Activities

Routine inspections occur on a regularly scheduled basis, both by operations and maintenance personnel, and in some cases, by contractors. The inspections for operators are defined and scheduled by the assignment of daily truck routes which identify the specific pump stations scheduled for inspection on a given calendar day. These inspections indicate when work is required to correct or prevent a problem. If the work needed is within the scope and ability of the responding personnel, the corrections are made at that time. Immediate notification is made



for any work that requires other skills, resources, or scheduling. A follow up response is initiated accordingly, utilizing the SAP computerized maintenance management system. This system also schedules specific events or activities for both Operations and Maintenance personnel that have been identified as critical to occur on a specifically scheduled frequency.

An evaluation of the PM schedule, based on observed conditions, and the repeated frequency of the work determines if the PM schedule must be adjusted. This is a function of the results of the scheduled inspections and preventive maintenance activities. Corrective maintenance also requires the application of a lasting solution, including future scheduling of additional work, which may be larger in scope and require an outage to minimize the impact. Emergency work is initiated by the first responder and involves all appropriate work disciplines required to immediately correct the situation. Emergency conditions are followed by a post incident critique to document lessons learned and prevent a reoccurrence.

Pump stations are inspected Monday through Friday for routine operating parameters. All sensitive or potentially critical pump stations and facilities are inspected on a daily basis, with adjustments to the schedule as necessary. These inspections may include, but are not limited to, pH, LEL, color, foam, pump run/cycle times, temperature, sound, and other relevant parameters, specific to individual stations. For the combination sanitary/flood protection pump stations operating in flood mode, the USACE Flood Protection Operation and Maintenance Manual dictates the type and frequency of inspection activities to be performed.

Anti-intrusion devices include a card reader system at each pump station for additional security that will record the employee entering, time of entry and other relevant data. Other safeguards in place include fencing, double gates, operational alarms and pad locks, which are inspected as part of each visit.

#### 2.8.4 Maintenance Activities

Maintenance activities are divided into several categories – predictive, preventive, corrective and emergency.

Predictive maintenance includes the daily inspection and operation of the pump station. Operators follow pre-planned routes daily. Defects or equipment problems are noted and a work notification is written in SAP.

For preventive maintenance, planners establish a maintenance task list in SAP using equipment manuals and observed operational conditions as guidelines. SAP will automatically generate preventive maintenance work orders. The maintenance technician is provided the work order from his supervisor and is responsible for completing the job. The supervisor will inspect the job to ensure completion and return the work order to the planner, who will close the work order, verifying all required fields are completed.

Corrective maintenance usually occurs as a result of equipment failure or declining equipment performance. Predictive maintenance routines may also identify corrective maintenance activities. Once the work notification is created in SAP and a work order is generated, needed supplies and parts are obtained. The work order is distributed to the maintenance supervisor, for assignment to the appropriate personnel. Repairs are made and the work order is returned to the planner, who is responsible for closing out the work order.

For emergency maintenance a corrective work order is issued for a process or equipment that impacts the safety of personnel, the public or the environment. SAP generates emergency work orders with a different numbering system. This numbering system makes it easy to determine which work orders are a priority and thus the needed personnel can be dedicated to the effort.



The work order process used for assigning work and resolution of deficiencies is defined as follows:

- The employee spots a defect in a piece of equipment or process.
- The employee or their supervisor writes a Work Notification on that problem process or piece of equipment.
- The maintenance planner or the senior maintenance technician converts the Notification to a work order and orders any needed parts or supplies.
- The work order is assigned to the supervisor who is ultimately responsible for fixing the problem.
- The supervisor assigns the work to a maintenance technician.
- The technician reports back to the supervisor any needed parts or any problem encountered. The technician also reports to the supervisor when the problem is corrected.
- The supervisor inspects the work and ensures that the repairs are satisfactory.
- The supervisor returns the work order to the maintenance planner as a completed work order.
- The maintenance planner closes the work order as completed.
- The technician records on his timesheet, using the work order number, for accounting purposes.
- The inventory will also charge to the work order number any supplies / parts that were needed.

The steps shown above are a summary of the process used to correct deficiencies that are identified, after inspection and assessment of various facilities. SAP reports are generated showing work order backlogs, repeated breakdowns and completion rates per work crew. These reports are used to evaluate effectiveness of the maintenance program.

At present, this program provides for regular scheduled cleaning of selected and critical stations in Metro OPS. A schedule has been developed to provide cleaning of grease from all 275 stations, and an industrial vactor has been assigned to this responsibility full time. MSD has developed a package to solicit competitive bid prices for completion of this work. A comparison of costs for outside assistance, in consideration of MSD's available resources will determine what portions of work is contracted for outside assistance, and what portion will be completed in house, in order to satisfy NMC objectives. The program for Metro OPS is recently established and 2006 will be the first full year of implementation. Metro OPS facilities, such as treatment plants, are scheduled for vactoring of grease and other materials, following routine PM activities, as well as any time a problem is observed, with subsequent adjustment to the cleaning schedule.

Parts and material supplies are a critical component of MSD's maintenance programs. The MSD Physical Assets Division manages the inventory at a central location for both the MFWTP and Metro OPS for critical, routine, or long lead time parts. The replenishment process is initiated by the Finance Division. Metro OPS also maintains a site specific inventory under the direction of the Process Supervisor - Maintenance in each region.

Response time and procurement issues are periodically evaluated to identify any extended backlog, with oversight by the MSD Finance Division.

Inventory supplies are established in SAP with automatic re-order points. When supplies reach a this point, a requisition is internally generated and routed to the assigned buyer queue for re-

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order. Re-order points, inventory maximums and minimums are periodically reviewed, and adjusted to meet demand.

## 2.8.5 Operational Activities, Dry and Wet Weather

The five critical pump stations that are a part of the CSS each have site specific SOPs that describe the operating routines, procedures and other critical steps necessary for safe and efficient operations. Each of these stations has dedicated monitoring screens as part of the SCADA system, and is monitored continuously, by field personnel and computer room staff. They are also inspected more frequently during wet weather. Permanent generators provide for continuous control of the stations, and to allow SCADA monitoring.

Current MSD design standards require that a pump station be designed with pumping redundancy. Spare pumping capacity must be available to always satisfy design flow requirements with the largest pump out of service.

Permanent flow meters are installed at the largest facilities. Run times are recorded at all but the most recently acquired stations. Annual flow tests are conducted to determine the actual flow capacity at each location.

#### 2.8.6 Training Program

MSD employs a full time trainer dedicated to the Operations Division. In addition to required safety and hazardous materials training, MSD also funds operator wastewater continuing education and licensing, along with many other skilled trade certifications. Employees are eligible for pay incentives for job-specific qualifications. Cross training occurs on a continuous basis. New equipment installations and capital projects provide equipment specific training, and SOPs and record drawings are revised accordingly.

## 2.9 CRITICAL ASSETS: MORRIS FORMAN WASTEWATER TREATMENT PLANT

Effective and efficient management of a facility of the complexity of the MFWTP requires a participative and interactive management approach. The execution of short term (daily and weekly) work efforts require well established routines, protocols and procedures. It is essential that staff is trained for consistent execution of these procedures to ensure that variability within the daily operation is limited only to the impact of influent wastewater characteristics, and not the operation of the process itself. Upper and lower statistical control limits become defined, the processes are sampled, and the results analyzed to ensure that performance meets established criteria.

Effective long term management requires regular and routine analysis of performance to confirm the desired results have been achieved, or to identify opportunities for improvement within the specific functional areas of the plant. Statistical analysis of data obtained from regular review of performance trends must be evaluated and analyzed to define the priorities that must be addressed within the operating and capital budget cycles.

## 2.9.1 Program Management

The MFWTP provides preliminary, primary, and secondary treatment, followed by disinfection for permitted capacity of 120 mgd of wastewater from the CSS. Peak wet weather flows up to 350 mgd receive preliminary and primary treatment, followed by disinfection.



This plant is managed by two distinct, but very similar and cooperative work groups - the Operations and Maintenance Departments. These two groups interact dynamically throughout a typical day to ensure that process management is essentially seamless.

The MFWTP is an Oxygen Activated Sludge (OAS) system with a very small physical footprint, but provides wastewater treatment to extremely high flows generated in the CSS. As such, by design the MFWTP experiences minimal head loss hydraulically, and therefore, control systems for overall management of the processes must function in a mode that is virtually "real time". With respect to the physical and biological treatment systems, a distributed control network constantly adjusts the various processes to achieve consistent operations within established parameters.

#### 2.9.2 Information Management System Utilization

The MFWTP operation is monitored continuously by a distributed control system (DCS) for the most sensitive and significant plant processes and a SCADA system for the biosolids process. These processes and programs are operated under the collective overview of the Process Computer Center (PCC). There are also SCADA-based anti-intrusion systems, required card reader access, and remote camera monitoring for safety sensitive areas within the plant.

The maintenance department uses SAP to schedule/track/document the predictive, preventive, corrective and emergency maintenance activities. The system is also used for generating reports that ultimately provide trends for all types of maintenance work, in order to ensure that resources are applied in a manner to achieve a consistent, measurable reduction in the need for corrective maintenance, and to confirm that the maintenance effort is effective in a global sense. SAP is also used to monitor parts and supplies, inventory and purchasing, as well as payroll. Customer service requests, (such as those related to odor) are archived in Hansen.

#### 2.9.3 Inspection Activities

Daily operator routines provide for inspections of all functional areas on each operating shift. The inspections for operators are defined and scheduled by the execution of SOPs for their process areas. These inspections indicate when work is required to correct or prevent a problem. If the work needed is within the scope and ability of the operating personnel, the corrections are made at that time. A work notification is generated for any task that requires other skills, resources, or scheduling. A corrective work order is created utilizing the SAP computerized maintenance management system.

Inspections routinely occur in both the operations and maintenance work groups. There are six identified process areas at MFWTP and operators and maintenance personnel complete inspection rounds on each of the three shifts. The maintenance department, including mechanics, electricians, instrumentation and controls staff perform inspections as part of their regularly scheduled work.

Computer room operators provide continuous electronic inspection and supervisory overview of the plant. The computer room operators are trained to monitor critical areas of the plant; and, a sophisticated alarm system provides notification of potential or observed problems. The MFWTP management team routinely observes and physically tours the plant, providing yet another level of inspection.



#### 2.9.4 Maintenance Activities

Maintenance activities are divided into several categories; predictive maintenance, preventive maintenance (PM), corrective maintenance, and emergency maintenance. The predictive maintenance is primarily comprised of the inspection activities that were previously discussed.

Preventive maintenance is defined as planned work that is not failure related. PM work orders are generated within SAP and can be performed by both operations and maintenance personnel. The maintenance planners distribute the work orders, document what has been completed, and generate reports. When any new equipment is installed at MFWTP, the maintenance planners enter the equipment into the PM schedule, with the manufacturer's recommendation for PM activities.

Corrective maintenance is work that is required to repair equipment where a failure has occurred or performance has deteriorated. The work is necessary to return the equipment to service and is prioritized during shift briefings. Equipment that is needed to comply with effluent quality criteria or that is needed to maximize the wet weather flow, will receive a higher priority.

Emergency maintenance activities may be needed to protect plant equipment or prevent a potential risk to employees or maintain permit compliance.

Graphs are used to show the completion rates of each crew. This data illustrates the effectiveness of an individual work crew and is used to determine if changes are required to meet departmental goals. These charts also show a comparison between corrective and preventive maintenance and the effect one has on the other. Records indicate as PM increased, corrective maintenance work orders decreased, demonstrating increased reliability in the treatment plant equipment and processes. Corrective work orders are periodically reviewed to determine if equipment failure was preventable; and, if so, the PM schedule is revised accordingly.

The MFWTP maintenance program also incorporates a detailed process for scheduled outages. For example, when a major component outage is required for cleaning or repairs, a Plant Impact Request form is submitted to the management team at the daily morning briefing. Operations and maintenance personnel have input as to when the component can be repaired or cleaned. Heavy equipment, outside contractors or vendors can be scheduled to help with the project. Supervisors can schedule staff, obtain parts and materials, and configure the process to minimize impacts on plant effluent quality.

The PM work order process is as follows:

- The planner enters equipment into SAP, and establishes a functional location and equipment number for each piece of equipments.
- The planner creates a task list specific for each piece of equipment following the manufacturer's guidelines.
- The planner creates and schedules a maintenance plan for each piece of equipment using equipment number and task list according to manufacturer recommendations.
- SAP automatically creates PM work orders consistent with the maintenance plan.
- The planner provides reports showing new and outstanding PM work orders.
- The planner assigns PM work orders to the appropriate supervisor.
- The planner procures needed supplies or parts for the work order.
- The supervisor assigns the work order to the appropriate technician.



- The technician completes the work and reports any additional repairs needed to the supervisor.
- The supervisor inspects the work, ensuring satisfactory completion.
- The supervisor returns the PM work order to the planner, along with any needed new work orders required or additional parts needed.
- The planner documents PM work completed, closes the PM work order, and generates as needed any new corrective work orders.
- Supplies for inventory are ordered to replenish the used parts inventory.
- The planner tracks the numbers of PM work orders issued, completed and outstanding.
- The planner generates established reports as directed by the maintenance manager.
- The planner updates the PM plan based on feedback from the technician and supervisor.

#### 2.9.5 Operational Activities, Dry and Wet Weather

The MFWTP is the only plant within the CSS. All dry weather flow is received and treated at the plant. During wet weather events, the amount of flow accepted at MFWTP is determined based on a flow capacity calculator. The flow calculator is a tool that assesses the capacity of the plant based on the number of treatment units available and other operational factors, such as the depth of blankets in the primary sedimentation tanks and the secondary clarifiers.

The secondary system OAS process receives peak flows during wet weather up to 140 mgd. This process includes three separate cryogenic oxygen enrichment plants capable of producing 150 tons per day (tpd) of high purity oxygen. Additional redundancy is also provided through the use of a liquid oxygen (LOX) storage and vaporization system.

The MFWTP also provides biosolids treatment for the 25 treatment plants in the MSD system. These solids are combined with primary treatment solids and anaerobically digested. Dewatered solids are processed through rotary drum dryers at temperatures that will achieve pathogen reduction and produce Class "A" Exceptional Quality biosolids. This pelletized fertilizer product is marketed under the trade name Louisville Green. This process has eliminated over 75,000 tons per year of wet sludge from local landfills and now generates a commercial fertilizer product that is licensed in 6 states, and has successfully established a competitive presence in the commercial agriculture, landscaping, recreation and homeowner markets.

The MFWTP is the largest facility in the region, and is necessarily highly complex, and employs an array of technologies to achieve successful operation. In order to manage this complex operation, each shift change includes a supervisory review, where key operating parameters are communicated to the incoming shift. The MFWTP management team also participates in a daily morning briefing where plant performance strategies are developed. This exchange of information is facilitated by the operations supervisor and provides a review of the status of equipment at the plant.

The information presented on the daily status report is used to determine the available capacity of each area of the plant and assist in development of process control strategies, as well as decision making, work planning and resource allocation. The most critical items are those that affect either the effluent quality, maximization of flow during rain events or otherwise impact the safety of the facility, employees or the environmental health of the community.

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#### 2.9.6 Training Program

The MFWTP includes a total of 6 process areas where certified operators are required. Those areas are Preliminary/Primary, Secondary, Waste Activated Sludge, Oxygen Generation, Dewatering, and Drying. An operator's classification depends on a demonstration that one or more of these areas has been mastered and the operator is able to perform the duties of the area unassisted. Training records for wastewater certification, safety training, skills assessment, and all other employee training are maintained in a centralized records management system under the supervision of MSD's Human Resources Division.

The diversity of the process areas requires that the training must come from several sources. MSD provides a full-time trainer assigned to the operations division who typically provides training in a classroom or group setting. An operator will also receive "on the job" training from another operator who is already qualified in that area, and will also receive follow-up training and eventual certification from their respective operations supervisor.

In order to assist with all of the training efforts, a series of SOPs have been developed for the MFWTP that include all of the process areas and some sub-areas to the processes. The list of SOPs includes:

- · Preliminary Treatment
- · Primary Treatment
- Secondary Treatment
- · Bio-roughing Towers
- Chlorination/Dechlorination
- · Final Effluent Pump Station
- Sludge Thickening
- Digestion
- Dewatering
- Drying
- · Oxygen Generation

#### 2.10 COMPLIANCE SUMMARY

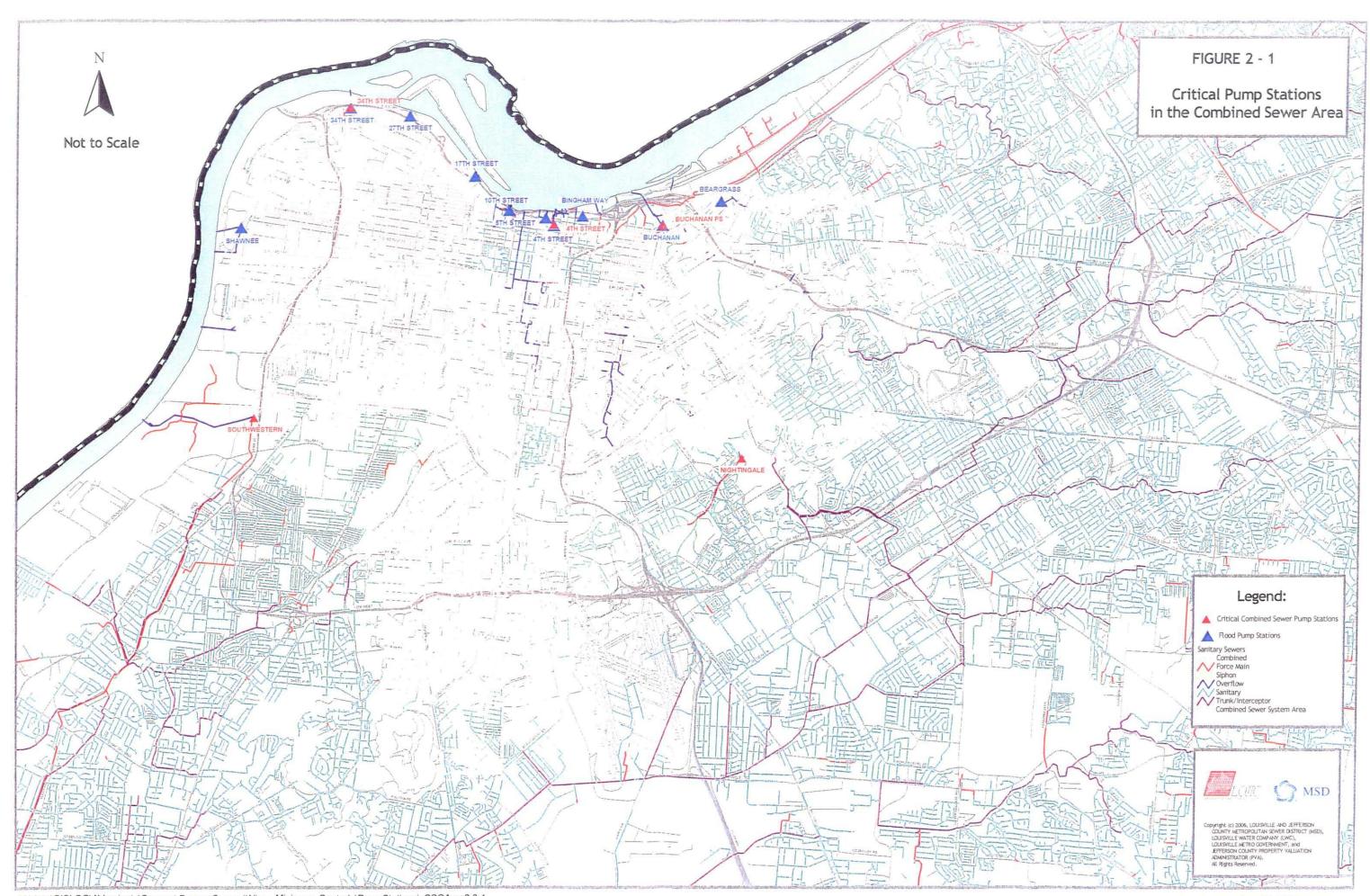
The previous sections overview the activities associated with the operation and maintenance of collection system, catch basins, CSOs, pump stations and the treatment plant, and other system components under MSD's control. Specific details or example have been included or referenced. Each of the CSS components is inspected on a regular, prescribed basis to ensure optimal operations. Personnel are trained and qualified to ensure that staff are capable of safe and efficient operation of the installed equipment.

Detention basins and Real Time Control components are inspected on a weekly basis in addition to the routine monitoring of the SCADA system. Preventive maintenance is performed as prescribed by the system component. Refer to Item 2-15 of the NMC Supplemental Information for an example of a detention basin inspection and maintenance program.



#### 2.11 LISTING OF SUPPLEMENTAL INFORMATION

- Item 2-1 Interim Southwestern Pumping Station Standard Operating Procedures
- Item 2-2 Southwestern Pump Station Standard Operating Procedure for Station Re-Start after Extended Outage
- Item 2-3 Standard Operating Procedure Guide, 34th Street Pump Station
- Item 2-4 Flood Pumping Operating Instructions, 34th Street Pump Station
- Item 2-5 Protocol for Review of Standard Operating Procedures for Critical Pumping Stations within the Combined Sewer System
- Item 2-6 Combined Sewer System Critical Pump Station Inspection Program
- Item 2-7 Preventive Maintenance Cleaning Program Sewer Root Cutting and Flushing Operations
- Item 2.8 Preventive Maintenance Sewer Cleaning Program Hansen Documentation
- Item 2-9 Preventive Maintenance Sewer Cleaning Program Example Map
- Item 2-10 Preventive Maintenance Sewer Cleaning Program Example Work Order
- Item 2-11 Preventive Maintenance Cleaning Program Catch Basin District Summary
- Item 2-12 Preventive Maintenance Cleaning Program Catch Basin Operations
- Item 2-13 Preventive Maintenance Catch Basin Cleaning Program Example Work Order
- Item 2-14 Preventive Maintenance Cleaning Program CSOs and Related Structures
- Item 2-15 Wheeler Basin Inspection and Maintenance Program Documentation



## CRITICAL PUMP STATIONS WITHIN THE COMBINED SEWER SYSTEM

### Flood Pump Stations

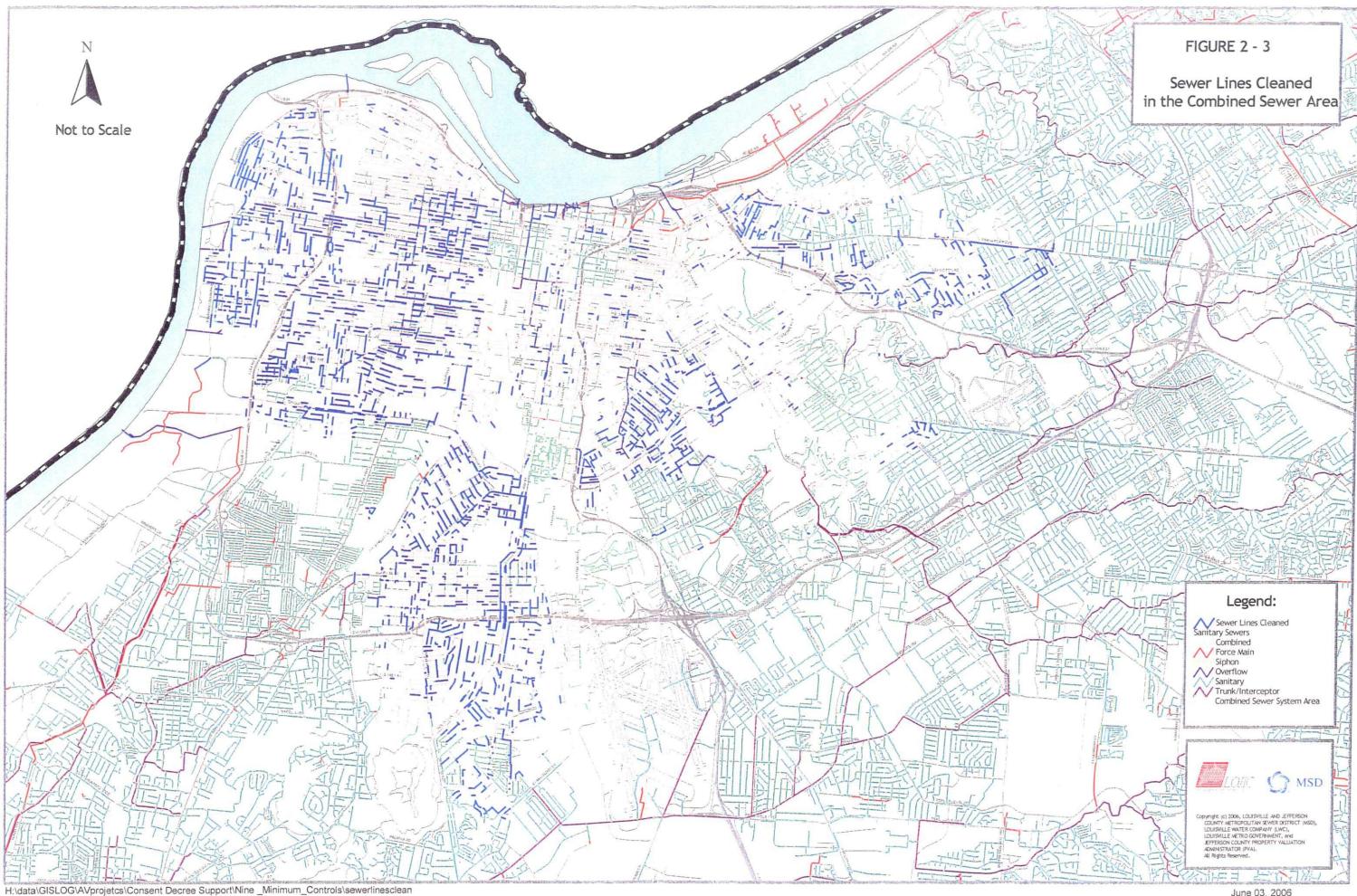
Facility Number	<b>Pump Station Name</b>	<u>Telemetry</u>	<u>Address</u>
MSD0319-FP	BINGHAM WAY	MOSCAD	315 BINGHAM WAY
MSD0301-FP	BEARGRASS		1731 BROWNSBORO RD
MSD0304-FP	5TH STREET		501 W MAIN ST
MSD0305-FP	10TH STREET		128 N 10TH ST
MSD0306-FP	17TH STREET		1701 NORTHWESTERN PKWY
MSD0307-FP	27TH STREET		2600 MARINE ST
MSD0309-FP	SHAWNEE		4501 W BROADWAY

### **Combined Sewer Pump Stations**

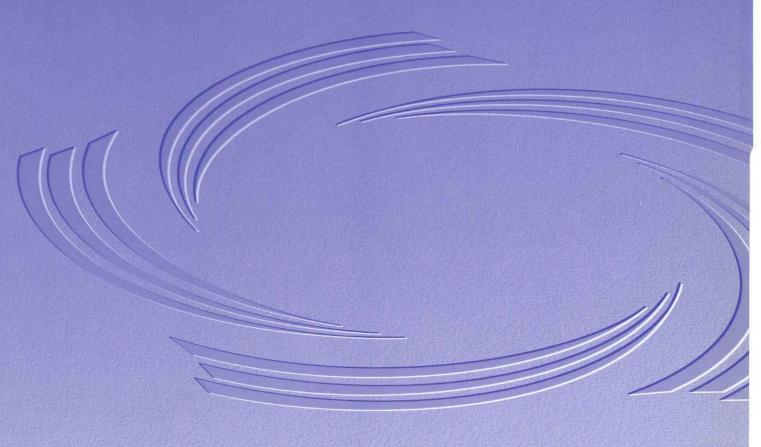
Facility Number	Pump Station Name	<u>Telemetry</u>	<u>Pumps</u>	<u>Address</u>	<u>Type</u>	Install Date Record Numbe Status	<u>Owner</u>	Receiving Treatement Plant	<u>District</u>
MSD0080-PS	SOUTHWESTERN	DATALINE	Combined	4010 BELLS LN	BLDG	4/1/1960 ORI89-3	MSD	MORRIS FORMAN	WEST
MSD0022-PS	NIGHTINGALE	CDMA	Combined	1800 NIGHTINGALE RD	BLDG	11/8/1966 06101-2	MSD	MORRIS FORMAN	WEST

## **Combination Flood and Sanitary Pump Stations**

Flood PS Facility	Sanitary PS										
<u>Number</u>	Facility Number	Pump Station Name	<u>Telemetry</u>	<u>Pumps</u>	<u>Address</u>	<u>Type</u>	Install Date Record Num	be <u>Status</u>	<u>Owner</u>	Receiving Treatement Plant	<u>District</u>
MSD0302-FP	MSD0088-PS	BUCHANAN PS	DSL	Combined	147 BUCHANAN ST	BLDG	9/14/1977 ORI76-4	1	MSD	MORRIS FORMAN	WEST
MSD0303-FP	MSD0087-PS	4TH STREET	MOSCAD	Combined	342 W MAIN ST	BLDG	12/31/1951 607-12.6/2	ł	MSD	MORRIS FORMAN	WEST
MSD0308-FP	MSD0082-PS	34TH STREET	MOSCAD	Combined	816 N 34TH ST	BLDG	7/1/1981 04261-7	1	MSD	MORRIS FORMAN	WEST









#### SECTION 3: NMC 2 - MAXIMIZATION OF STORAGE IN THE COLLECTION SYSTEM

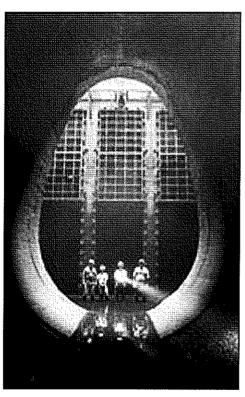
#### 3.1 INTRODUCTION

The purpose of this control is to maximize the use of the collection system by making relatively simple modifications to the combined sewer system (CSS) to enable the system to store wet weather flows until downstream sewers and treatment facilities can handle the flow.

#### 3.2 PROGRAM OVERVIEW

MSD has conducted numerous studies, evaluations, and field inspections to identify possible locations where modifications can be made to the CSS to increase insystem storage. Some of the components reviewed are modifications to CSO dams and weirs through both field observation and modeling analysis, protection of the conveyance system and treatment plant capacity from high river stages through the use of flap gates, and reduction of inflows through development retention and removal of illegal connections to the sewer.

Where possible modifications were identified, MSD has implemented the appropriate actions to maximize storage in the CSS. The EPA guidance document for Nine Minimum Controls states that a number of these measures can also be applied to implementation of other minimum controls. For example, actions taken to increase the use of the collection system will also reduce overflows and increase the flows to the POTW for treatment. Detailed descriptions of the control measures implemented to maximize the storage capacity of the CSS are provided in Section 3.4.



Southwestern Pump Station Sluice Gate Chamber

#### 3.3 SYSTEM CHARACTERIZATION

The combined sewer collection and conveyance system in the CSS consists of major interceptors, diversion structures, mechanical regulators, and other flow control devices, wastewater treatment plants, and pump stations. Because of its size and complexity, MSD has subdivided the combined sewer area into three regions for study and evaluation.

The Beargrass Creek Region is considered the most sensitive area with a high concentration of residential properties and proximity to public parks. Fifty-six (56) CSOs are located in the Beargrass Creek Region. The slopes of the interceptors serving these areas are marginal and require a relatively high water surface elevation to maintain flow in the sewers even under dry weather conditions.

The Ohio River North Region covers the central business district and most of downtown Louisville. The collection and conveyance networks in this region are relatively small with limitations in wet weather capacity. Forty-nine (49) CSOs are widely scattered throughout the Ohio River Interceptor (ORI) and Central Relief Drain (CRD) service areas.

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The Ohio River West Region encompasses the western portion of the CSO area, including the Morris Forman Wastewater Treatment Plant (MFWTP), which serves the entire CSO area. Each of the eight (8) CSOs located in the Ohio River West Region are located near the most downstream ends of the conveyance systems. The conveyance systems in this Region consist of much larger interceptors and trunk sewers than systems in either of the Beargrass Creek or Ohio River North Regions.

Characterization of the collection system shows that the CSS includes nearly 60 miles of interceptor pipe that is 5-foot or larger in diameter (refer to Figure 3-1 for a tabular presentation of this data and Figure 3-2 for a graphic showing these large conveyance pipes.) During rain events, this pipe network provides additional system storage. Analysis has been performed to increase the amount of flow that remains in these large pipes by raising dams, weirs, and modify the amount of flow used for storage upstream of pump stations.

#### 3.4 CONTROL MEASURES

The following are measures that have been implemented by MSD in an effort to increase the storage capacity of the CSS. These measures reduce the magnitude, frequency, and duration of CSOs.

#### 3.4.1 Collection System Inspection

MSD crews perform numerous types of inspection and maintenance measures in an effort to maximize the storage within the collection system. The purpose of the inspections is to ensure that the CSOs and associated appurtenances remain unobstructed, and if an obstruction is found, that it is cleaned that same day. Needed maintenance (bar racks, siphons, and regulators) is also performed.

MSD also inspects sewers lines within the CSS. These inspections allow MSD to identify major defects or other sources of inflow, abnormalities, as well as areas of the sewers with sediment build-up which may require cleaning and may result in increased storage volume in the pipe with a resultant reduction in overflows.

MSD's Infrastructure and Flood Protection (I&FP) Division, in an effort to maximize storage in the system, performs routine grease inspections, root cutting, vapor rooting, and flushing activities within the system. Areas with persistent obstruction problems are inspected frequently to ensure the obstructions are minimized. Refer to Section 2 (NMC 1) for a detailed description of these programs.

#### 3.4.2 Flap Gate Installations

The CSOs outlet into Beargrass Creek or the Ohio River. These waterways are subject to frequent flooding of moderate depth. Flooding associated with the Ohio River is generally less frequent, but with more significant flood water depth. CSOs that outlet to the Ohio River have a series of in-system flood gates that prevent backwater inundation at USACE defined river stage levels. Flooding on Beargrass Creek is more frequent. Flap gates have been installed on select Beargrass Creek CSO outfalls to protect the CSS from inundation (or backwater). By having these flap gates in place, the CSS is protected from inflow which would rob treatment capacity and conveyance for dry weather and wet weather sewer flow. Flap gates also protect the MFWTP from stream and river water heavy in colloidal sediment from entering the CSS and disrupting the normal processes for wastewater treatment.

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The CSS when originally constructed provided for several flap gates. MSD has performed evaluations to determine additional locations where new installations would prove beneficial; approximately doubling the number of flap gates in the system. Table 3-1 identifies the Beargrass Creek Region CSO outfalls with flap gates. Refer to Figure 3-3 for a map of these locations.

TABLE 3-1
BEARGRASS CREEK FLAP GATE LOCATIONS

CSO 82	CSO 84	CSO 091
CSO 097	CSO 108	CSO 109
CSO 111	CSO 113	CSO 117
CSO 118	CSO 121	CSO 125
CSO 126	CSO 127	CSO 130
CSO 140	CSO 144	CSO 153
CSO 154	CSO 166	

The collection system inspection and maintenance programs, including those for flap gates, are detailed in Section 2 (NMC 1) of this document.

#### 3.4.3 Dams, Weirs and Regulator Adjustments

The following section represents programmatic reviews and field adjustments completed within the CSS that provided additional storage within the system.

#### 3.4.3.1 Dams and Weirs

MSD has raised 32 CSO dams and weirs to increase available system storage and therefore decrease overflow volume. The work was completed in two phases. In the initial phase (Phase 1), MSD personnel determined locations and respective modifications for 16 CSOs based upon visual field assessments and O&M experience. Refer to Item 3-1 of the NMC Supplemental Information for details of the analysis.

In the next phase (Phase 2), MSD performed a screening process to identify additional CSOs that could be modified based on hydraulic analyses using the CSS SWMM model. The screening process eliminated 92 of the 114 CSOs from further evaluation for the following reasons:

- CSOs were located upstream of an inflatable gate or controlled by an RTC system, which
  are more sophisticated control devices already designed to maximize in-system storage.
- The CSOs had been previously raised in Phase 1.
- CSOs where the sewers upstream were separated (These projects will be completed by the end of 2007). CSO 209 has already been eliminated as a result of this effort. MSD still plans to eliminate the two remaining sites (CSOs 88 and 147) once it has been demonstrated that the sewer separation project was successful.
- CSOs had S&F Control Devices. In the initial evaluation, these CSOs were eliminated from further consideration because many of the CSOs had their dams raised during the



installation of the S&F devices and/or the devices themselves include a feature that effectively performs the same function. For example, CSO 108 was raised 2 feet as part of the installation of the CDS unit. In the case of CSOs 83 and 121, the dams were also raised and large vaults were constructed to accommodate the baffles. The vaults also reduced the overflow volume due to their inherent storage capacity.

#### CSOs that had an AAOV of less than 1 MG/YR.

The analyses calculated the effectiveness of further reductions in frequency and duration of CSOs by raising dams or weirs without creating adverse backwater conditions during a 2-year storm event. The SWMM model analyzed the remaining 22 CSOs and recommended that 16 of the dams or weirs be raised. The six CSOs that did not need to be raised included CSO Nos. 16, 19, 55, 137, 206, and 210. Refer to Appendix 3-1 (NMC Dam Elevation Evaluation) for details of the analysis.

This effort has reduced the annual average overflow volume by 219.3 million gallons, as shown in Table 3-2. The table also provides a list of CSO dams that have been modified, the respective reduction of overflow volume and the year of the modification.

TABLE 3-2
DAM AND WEIR ADJUSTMENTS

cso	Ele	vation (ft)		AAOV Reduction	Year
Name	Before	After	Raised By	(mgal)	Completed
22	422.90	424.90	2.00	1.4	1994
29	440.93	441.43	0.50	2.8	2006
31	443.70	444.20	0.50	0.0	1997
34	441.99	442.49	0.50	1.0	2006
51	438.74	439.24	0.50	0.1	1994
53	443.81	444.31	0.30	0.1	2006
58	447.10	447.60	0.50	3.0	2006
84	434.65	436.15	1.50	1.3	1997
92	leaping weir gap increased 5.5"			Note #3	1995
93	minor modification		-	Note #3	1995
104	431.63	432.47	0.84	Note #1	2006
105	429.30	430.80	1.50	48.0	2006
108	448.85	450.85	2.00	12.0	1999
111	444.66	445.66	1.00	3.8	2006
118	431.32	432.32	1.00	Note #2	2006
120	431.23	431.73	0.50	Note #4	1997
121	430.02	430.52	0.50	0.0	1997
125	439.60	441.10	1.50	2.4	1995
127	443.27	444,47	1.20	1.5	1996
132	428.06	430.06	2.00	23.2	2006
140	433.79	434.12	0.33	Note #5	1995
146	439.31	440.81	1.50	Note #2	2006
150	438.35	438.93	0.58	Note #3	1994



cso	Elev	Elevation (ft)  Before After Raised By		AAOV Reduction	Year
Name	Before			(mgal)	Completed
153	426.85	427.35	0.25	56.8	2006
155	440.65	441.07	0.42	Note #3	1994
186	453.27	453.60	0.33	Note #3	1999
187	450.01	450.34	0.33	Note #3	1999
189	423.66	425.16	1.50	54.5	2006
190	438.20	438.70	0.50	2.3	2006
191	413.87	414.87	1.00	2.3	2006
196	445.52	445.94	0.42	1.6	2006
198	446.20	446.37	0.17	1.3	2006

Total 219.3 MG/YR

Note #1 - CSOs 104 and 105 are hydraulically connected. AAOV reduction is summed and listed for CSO 105.

Note #2 - CSOs 118, 146 and 153 are hydraulically connected. AAOV reduction is summed and listed for CSO 153

Note #3 - The dams at these CSOs were raised but there was no apparent benefit of AAOV reduction. The raising of the dams does reduce the frequency of overflows for higher intensity rain events.

Note #4 - CSOs 120 and 121 are hydraulically connected. AAOV reduction is summed and listed for CSO 121.

Note #5 - CSOs 140 and 125 are hydraulically connected. AAOV reduction is summed and listed for CSO 125.

In summary, MSD began this effort utilizing O&M field staff to identify sites where minor modifications could be made to increase CSS in-system storage without causing other problems, such as street or basement flooding. MSD continued this effort using a complex hydraulic model to find additional locations where modifications could be made.

#### 3.4.3.2 Other System Adjustments

The following system modifications were made to increase the available system storage capacity.

- Audubon Park Sewer The Audubon Park sewer initially flowed into the Beargrass Interceptor, a small capacity sewer with numerous CSOs. During periods of high flows in the Beargrass Interceptor, excess flows within the Audubon Park sewer overflowed into the Nightingale Pump Station. The flow was then pumped into the Southwestern Outfall service area, which contains larger diameter sewers. Adjustments were made to the system to allow dry and wet weather flow to be conveyed to the Nightingale Pump Station, thereby reducing flow in the Beargrass Interceptor and making additional wet weather capacity available.
- Southeast Diversion MSD began re-routing a portion of the flow from the Beargrass Interceptor to the Southwestern Outfall system in mid-1993 by adjusting the gate setting at the Southeast Diversion structure, which is upstream of the CSS. As a result, wet weather capacity is increased in the smaller-sized Beargrass Interceptor sewer.



#### 3.4.4 Inflow Retardants

Slowing inflow enables the CSS to transport more flow by delaying the flow over a longer period of time. The elimination of roof drains and sump pumps to the collection system maximizes storage capability. The following are examples of projects in which inflows were removed or slowed in an effort to maximize storage within the collection system as well as to minimize CSOs.

- Blackburn-Fenley The Blackburn-Fenley project removed approximately 100 MG/YR of groundwater from the CSS. The Louisville Water Company repaired a leaking water supply reservoir, and by doing so, reduced overflows and increased storage within the CSS. The project was completed in 1998.
- Central Maintenance Facility BMPs MSD purchased and converted a strip mall into a
  maintenance facility. The site is approximately 25 acres, with 19.3 acres being
  impervious. The Central Maintenance Facility restoration included numerous stormwater
  BMPs, including the construction of vegetated swales, buffer strips and vegetated islands.
  The final impervious area was reduced to 15.7 acres. Approximately one-half of the roof
  drains were directed to a vegetated area. The stormwater BMPs have decreased the
  amount of stormwater entering the CSS, thus reducing the downstream CSOs.
- Plumbing Modifications Program The Plumbing Modifications Program has been in existence for 11 years with expenditures over \$13M. The program was initially intended to provide protection to designated critical areas in the CSS that had experienced chronic problems with basement backups due to wet weather surcharged sewers. On March 1, 1997, the Louisville Metropolitan area experienced its worst flooding since 1964. As a result of this flood event, the Plumbing Modifications Program was temporarily expanded to the entire MSD service area which included both the combined and separate sanitary sewer areas. The program reduces and retards inflow by removing direct connections to the combined sewer, such as groundwater sump pump and downspouts. Redirecting these direct connections and discharging them onto the grass allows the water to be absorbed into the ground instead of using capacity within the combined sewer. Over 1,400 structures have had downspouts disconnected through this voluntary program. Historically, it is estimated that 80 to 90% of these locations also had sump pumps disconnected from the combined sewer. Refer to Figures 3-4 and 3-5 for location information pertaining to the voluntary downspout disconnections within the CSS.

#### 3.4.5 Localized Upstream Detention

New development proposed in the combined sewer area is reviewed for opportunities to reduce the amount and rate of runoff from parking lots and downspouts. Reduction methods used include installation of underground detention systems, decreasing impervious areas of previously developed sites, and providing parking lot storage. Other methods include restricting the size and number of stormwater outlets into the CSS and installation of catch basins in grassy areas.

As part of the standard practices for stormwater imposed upon new or revised development in the CSS, new storm tie-ins are limited to a single 6-inch connection. A requirement to reduce the post-development flows to the pre-development levels is also obligatory.

A recent example is the construction of a large supermarket located at 520 N. 35<sup>th</sup> Street (MSD Water Management #8690) within the CSS. This area was approximately 6.76 acres of historically residential development. More recent land use in the area encompasses a mixture

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of residential development, parking for adjacent industry, and open space. The supermarket location prior to development included 0.64 acres of impervious surface. This impervious area increased to 3.31 acres through development. As part of the supermarket project, a stormwater detention basin with a single 6-inch connection to the CSS was constructed.

The pre- and post-stormwater discharges are summarized in Table 3-3 below:

TABLE 3-3
EXAMPLE OF STORMWATER FLOW REDUCTION DUE TO NEW DEVELOPMENT

Design Storm	Pre – Development Stormwater Discharge (cfs)	Post – Development Stormwater Discharge (cfs)	On-Site Stormwater Detention Volume (ac-ft)
2 - year	2.0	1.8	0.38
10 - year	4.0	2.8	0.71
100 - year	7.0	3.9	1.16

#### 3.4.6 Upgrade/Adjustment of Pump Operation at Interceptor Lift Stations

MSD routinely reviews the performance of the larger sanitary pump stations within the CSS to maximize operations and to efficiently transport flow to the MFWTP that would otherwise overflow without treatment. In 2005, MSD completed a major upgrade of the Robert Starkey Pump Station. The upgrade expanded the pumping capacity from 125 mgd to 140 mgd. The project included installation of a new wet well adjacent to the old wet well, four new variable speed submersible pumps capable of handling 35 mgd each, two channel monsters with hydraulic motors for screening, a new electrical substation, new instrumentation and control, and provisions for telemetry. The new wet well is lower than the original wet well, reducing the backwater in the interceptors and thereby increasing their storage capacity. Based on the results of the SWMM model when combined with operational changes described in Section 5, these improvements have reduced overflows by 545 MG/YR.

The 4th Street Flood Pump Station was modified to reduce overflows. The overflow dam on CSO 22 was raised 2 feet, which allowed the "idle mode" set point for the 4th Flood Street Pump Station to be raised two feet. Based on river elevation data from 2003 to 2005, the annual reduction of CSOs resulting from this modification is estimated at 13.7 MG/YR.

In addition to physical changes, MSD made operational changes to the pump stations. MSD has the responsibility for the operation and maintenance of an extensive flood protection system that was developed by the U.S. Army Corps of Engineers (USACE) in the 1950s. In 2002, MSD met with the USACE to discuss modifications to the control logic of the pump stations that would reduce combined sewer overflows. The control logic developed by the USACE focused on flood protection rather than minimization of CSOs. The program changes proposed by MSD reduced the amount of time that the pump stations were in "idle" model. During "idle" mode, the pump station ceases to function as a sanitary pump station as it transitions into a flood prevention mode of operation, thus causing combined sewer overflows. Similarly, the "idle mode" set point for the 34th Street Flood Station was raised. The annual reduction resulting from this modification is 30.2 MG/YR.



#### 3.4.7 New Development and Building Code Opportunities

MSD's new development program addresses concerns produced by population growth and seeks to lessen the impacts to sewers and streams. Concerns include evaluating new sanitary and storm connections, geothermal system discharges, and hydrological impacts from pervious and impervious areas. General methods used to maximize storage in the collection system include reviewing the existing ordinance and plumbing codes, limiting storm connections to the system, utilizing hydraulic modeling, and requiring sewer separations where feasible.

In the mid-1990s, MSD led efforts to revise the building code to no longer make it unlawful to discharge downspouts directly to the ground. The corresponding benefit of this change is that roof runoff is dissipated over the ground as opposed to being a direct discharge into the combined sewer.

Sewer surcharging is a common cause of backups into basements in the CSS. Also in the mid-1990s, the plumbing code was modified such that gravity service connections could no longer be installed below the elevation of the cover of the nearest manhole. The corresponding benefit of this change is that it eliminates the possibility of basement backups due to surcharged combined sewers.

#### 3.4.8 Real Time Control (RTC)

During fiscal years 2000 and 2001, MSD performed a study to evaluate the feasibility of using Real Time Control (RTC) to fully utilize existing in-line storage capacity, decrease CSO volumes in the Beargrass Creek and Ohio River Watersheds, and increase wastewater volumes conveyed to the Morris Forman Wastewater Treatment Plant (MFWTP). The potential for in-line storage was identified for the eleven major interceptors and outfalls (Southwestern Outfall, Southern Outfall, Northwestern Interceptor, Western Outfall, Western Interceptor, and 34th Street Collector, Sneads Branch Relief Sewer, Dry Run Collector, Brownsboro Road Trunk Sewer, Beals Branch Trunk Sewer and Broadway Collector). Off-line storage basins, including Brady Lake, Executive Inn and Wheeler, were also included in the evaluation. Although the MDS Interceptor is large, and provides inherent storage capacity, the interceptor is needed to convey the maximum possible flow to the plant and therefore cannot be regulated to provide insystem storage.

The current estimate of the total effective capacity for these projects is approximately 82.3 MG, as depicted in Table 3-4. The RTC program will be implemented in several phases. The projects identified for the first two phases are shown in Figure 3-6.

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## TABLE 3-4 EFFECTIVE STORAGE VOLUME

Trunk	Control sites	Effective Storage  Volume (MG)
Sneads Branch Relief Sewer	SBS1	2.5
Dry Run Collector	BGI2	3.2
Broadway Collector	BGI1	0.8
Brownsboro Road Trunk Collector	NEII	0.5
Beals Branch Trunk Sewer	MFT1	0.5
Southwestern Outfall	SWOR1	18.5
	SWOR2	18.0
UDRT Basins (Executive Inn and Brady Lake)		15
Wheeler Basin		1.1
Southern Outfall	SOR1	6.2
	SOR2	5
Northwestern Interceptor	NWIR1	5
Western Outfall	WOR1	4
Western Interceptor	WIRI	0
34 <sup>th</sup> Street Collector	34THR1	2
Total		82.3

In April 2006, MSD implemented the first phase of the RTC at five sites within the tributary area of the Southwestern Outfall. These sites have a total storage capacity of 36 million gallons. Phase 1 also included the development of a centralized decision making system (Csoft) and a radar rainfall data system to predict weather over a 2 hour window. The five facilities in this project are as follows:

- <u>Southeastern Diversion Structure</u> (SED1) for control of two gates. These gates will allow the diversion of flow from the Beargrass Interceptor (BGI) to the Southeastern Interceptor (SEI) in Region 3
- <u>Nightingale Pump Station</u> (BGI3) for control of one gate located in the BGI. This gate will allow the diversion of flow from the BGI and the BGI Relief Sewer in Region 1 to the Upper Dry Run Trunk system in Region 3
- <u>Southwestern Pump Station (SWOR1)</u> for optimal and local control of the gates in the Sluice Gate Chamber (SGC). Utilization of this gate will generate in-line storage capacity within the Southwestern Outlet (SWO).
- <u>Sneads Branch In-line Storage Site</u> for control of the dewatering pumps. This facility
  makes use of an inflatable dam that store overflows in a relief sewer and pumps that recaptured overflows back in the BGI and for treatment at MFWTP;
- Brady Lake and Executive Inn Basins for control of the gates at the outlet of the basins.
   These gates will allow the storm water flows to be strategically stored for CSO control



and released into the Upper Dry Run Trunk system in Region 3 once capacity is available.

During the period between April 6 and June 23, 2006, the RTC system reduced the total overflow volume by 200 million gallons during 17 wet weather events, as shown in Table 3-5. Additionally, the RTC system prevented overflows from occurring during six of the seventeen events. MSD anticipates that overflow reductions (frequency and volume) will improve in the future because the control system was still being tuned during this period.

Table 3-5

Overflow Reductions Attributable to Phase 1 Real Time Control Project

			Rain		Southwestern			Brady Lake		Executive Inn		Volume
Event	Date	Rain	Duration	Ctrl elev.	Max elev.	Max vol	Overflow	Max Ivi	Max vol	Max ivi	Max vol	retained
1	6-Apr-06	0.22"	4:35 hrs	410.0'	407.2'	7.7 MG	No	4.9'	1.0 MG	2.4'	0.3 MG	9.0 MC
2	7-Apr-06	0.46"	4:30 hrs	410.0'	410.4'	11.3 MG	Yes	7.4'	2.2 MG	4.5'	0.8 MG	14.3 MG
3	19-Apr-06	0.86"	4:05 hrs	410.0'	411.0'	11.3 MG	Yes	10.2'	2.9 MG	4.5'	1.6 MG	15.8 MG
4	21-Apr-06	0.76"	5:30 hrs	410.0'	415.1'	11.3 MG	Yes	11.1'	4.2 MG	5.3'	2.3 MG	17.8 MG
5	10-May-06	0.30"	8:20 hrs	410.0'	401.1'	2.0 MG	No	2.7'	0.3 MG	2.6'	0.4 MG	2.7 MG
6	18-May-06	0.29"	5;25 hrs	410.0'	407.8'	8.4 MG	No	4.6'	0.7 MG	3.0'	0.5 MG	9.6 MG
7	24-May-06	1.20"	6:15 hrs	410.0'	410,7'	11.3 MG	Yes	10.5'	3.1 MG	4.9'	1.9 MG	16.3 MG
8	25-May-06	0.80"	2:50 hrs	410.0'	410,8'	11.3 MG	Yes	9.4'	2.5 MG	5.4'	2.4 MG	16.2 MG
9	1-Jun-06	0.32"	5:35 hrs	Man ctrl	410,2'	1.6 MG	Yes	6.8'	1.9 MG	4.8'	1.9 MG	5.4 MG
10	2-Jun-06	0.96"	9:10 hrs	Man ctrl	411.6'	11.3 MG	Yes	11.3'	4.6 MG	6.9'	4.2 MG	20.1 MG
										+		127.2 MG

			Rain		Southy	vestern		Brad	y Lake	Execu	tive Inn	Volume		
Event	Date	Date Rain	Date Rain	Date Rain D	Date Rain Duration	Ctrl Ivi	Max Ivi	Max vol	Overflow	Max Ivi	Max vol	Max Ivi	Max vol	retained
11	7-Jun-06	0.21"	2:05 hrs	412.5'	412.1	14.2 MG	Yes	8.4'	2.1 MG	5.1'	2.2 MG	18.5 MG		
12	11-Jun-06	0.30"	4:50 hrs	412.5'	405,1'	5.4 MG	Yes	3.6'	0.5 MG	2.2	0.3 MG	6.2 MG		
13	17-Jun-06	0,27"	2:40 hrs	412.5	404.8'	5.1 MG	No	5.8'	1.1 MG	3.81	0.8 MG	7.0 MG		
14	18-Jun-06	0,13"	2:15 hrs	412.5'	399.7'	1.4 MG	No	1.6'	0.1 MG	1.7'	0.1 MG	1.6 MG		
15	19-Jun-06	0.09"	3:10 hrs	412.5'	398.6'	1.0 MG	No	1.5'	0.1 MG	1.0'	0.0 MG	1.1 MG		
16	19-Jun-06	1.05"	13:30 hrs	413.2'	412.5'	14.8 MG	Yes	10.0'	2.8 MG	6.3'	2.0 MG	19.6 MG		
17	23-Jun-06	0.45"	3:10 hrs	413.31	412.5'	14.8 MG	Yes	8.5'	2.1 MG	4.7'	1.7 MG	18.6 MG		
~~						:								
												72.6 MG		

Other notes:

Brady Lake control level is 16' (8.1 MG) Executive Inn control level is 9' (6.9 MG) Sneads Branch excluded Total: 199.8 MG

A second implementation phase of the RTC system is currently under its design phase and is scheduled to be operational in December 2008. Phase 2 involves five additional control sites; two of the sites were part of the original 16 control sites identified during the studies (SWOR2 & BGI3) while the three other sites are existing facilities with automation capabilities. These sites will provide an additional 25.3 million gallons of storage. The five facilities in this project are as follows:

 Southwestern Outfall In-line Storage Site (SWOR2) – for control of an inflatable rubber dam to be installed in the Southwestern Outfall approximately 12,000 feet upstream of the Southwestern Pumping Station (SWPS). This gate is meant to create a second storage zone in the upstream section of the Southwestern Outfall, as a complement to

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the gates at the SGC of the Southwestern PS. At this point, the Southwestern Outfall consists of a 18'10" x 24'-pipe;

- <u>CSO 108 (BGI3)</u> The project includes the new regulating structure with modifications to the existing interception conduit to the BGI and the addition of a link to the existing BGI relief manhole. An increase of intercepted flow from CSO 108 is possible because of the first phase SED and NPS control sites are respectively located upstream and downstream of CSO 108 along the BGI. Modifications at CSO 108 will maximize the benefits related to the automation of the two control sites:
- Wheeler Basin New programming of the local PLC and better instrumentation will allow the RTC system to automatically control the Wheeler Basin from the central station. The integration of the Wheeler Basin operations to the RTC should allow for a more efficient use of the basin to control overflows. It will fill-up more frequently and dewatering will take place only when overflows will have ceased downstream. The automated control will make use of the existing sluice gate to control flow from the area entering Mill Creek Trunk;
- Southwestern Pump Station and Main Diversion Structure New programming of the local PLCs at the Southwestern PS and the MDS will allow the central station to automatically control these facilities. The SWPS and the MDS are two major inflows to the MFWTP. The integration of their operation and the control of the flows with the RTC system will allow the optimization of the flow control strategies during wet weather conditions depending on the current status of the MFWTP and overflow priorities. The SWPS and two of the automated gates at the MDS will be controlled by the RTC system for prioritization and adjustments of the available hydraulic capacity.

The CSO reductions associated with the Phase 1 and Phase 2 projects are presented in Table 3-6. The estimated overflow reductions are based on simulation results. As such, they give an order of magnitude of the significant benefits for each RTC sites. Also, they will be updated in the future with operational data from the first implementation and current on-going design of the second phase.

TABLE 3-6 CSO REDUCTIONS USING REAL TIME CONTROL

	7700			CSO Reduction (MG)		
Control site	Region	Related CSOs	Description	1-month event	annual basis	
RTC Phase I Implemen	tation					
SWPS SGC	2&3	15, 191	New Automated gates at SGC for in-line Storage Target level = 415'	17	700	
Brady Lake & Executive Inn	2&3	15, 191	RTC programming to integrate to the global RTC scheme the current local operation of regulating gates	1-2	50	
Snead Branch In-line Storage site	1	146, 117	RTC programming to integrate to the global RTC scheme the current local operation for dewatering	0.2	5	
SED1 - Southeastern Diversion	1	18, 108	2 New Automated gates at SED for relief of BGI through diversion to Region 3	2.0	80	



		Related		CSO Redu	luction (MG)	
Control site	Region	CSOs	Description	event	basis	
BGI3 - Nightingale PS Control site	1	97, 110, 150, 151	New Automated gate on BGI (beside NPS) for relief of BGI through diversion to Region 3			

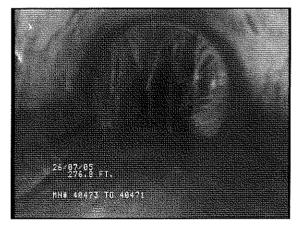
**RTC Phase II Implementation** 

CSO 108	1	108	Implantation of new static regulating structure for CSO 108 with a link to BGRS Takes advantage of freed capacity by RTC at SED1 & BGI3	1.5	50
SWOR2 - Southwestern Outlet	2&3	15,191	New control device for favor in-line storage in the upper part of the Outlet	11	200-300
Integration of Wheeler Basin Operations into RTC	2&3	15, 191	RTC programming to integrate to the global RTC scheme the current local operation of Gate Structure	0.5	10-20
Integration of SWPS/MDS/MFWTP	2&3	15 & MDS	RTC programming to integrate to the global RTC scheme the current local operation of MDS and SWPS	NA	NA

Projects beyond 2008 will be addressed in the Long Term Control Plan. Refer to Exhibits 10, 11, 53 and 54 of the 308 submittal for additional information.

#### 3.4.9 Removal of Flow Obstructions

The combined sewer system serves commercial, industrial, and residential areas. While most of the catch basins to the system are trapped, there are numerous ways for grit and debris to enter the system. Many of the combined sewers have adequate flow and velocity to maintain the pipe capacity. There are portions of the system where flat pipe slopes result in debris buildup. These locations require monitoring and cleaning to maintain the system storage capacity. Refer to Section 2 (NMC 1) for additional information pertaining to ongoing collection system inspection and maintenance activities.



Root Obstruction in Sewer

- Beargrass Interceptor In early 1995, the depth of grit and deposited materials was gauged at 23 manholes on the Beargrass Interceptor between the Buchanan and Nightingale Pump Stations. No significant accumulations of grit in the lower sections of the Beargrass Interceptor were observed.
- Central Relief Drain By the end of 1994, most of the combined sewers within the Central Relief Drain had been inspected and deposited materials removed.
- CSO 125 MSD field observations occurring between August of 1996 and November of 1998 revealed that the sewer upstream of CSO 125 was often filled with sediment and

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continually needed cleaning. The sediment was caused by draining of the Louisville Water Company reservoir. MSD worked with the Louisville Water Company to reach an agreement on proper draining of the reservoir. The change in operating procedures eliminated sediment build up and dry weather overflows.

- CSO 132 The Northeastern Sanitary Trunk Sewer upstream of CSO 132 often filled with sediment, necessitating repeated cleaning of the upstream segments of the sewer. Subsequently, the regulator was modified to ensure it does not close prematurely or remain closed after a rain event. This modification has resulted in higher heads and flows into the Northeastern Sanitary Trunk Sewer during rains, which has had a flushing effect that is keeping the sewer cleaner and freer flowing. The project was completed in 1993.
- CSO 153 Field inspections conducted in 1993 revealed that CSO 153 was filled with debris. Cleaning of the CSO removed 15 two-gallon buckets of bricks and grit. In 1995, rebar was installed to function as a screen to minimize the amount of debris getting into the CSO.
- CSO 209 In 2005, several pipe blockages were discovered during a comprehensive Television Inspection (TVI) program that was performed on over 15,000 linear feet of combined sewer in the Cherokee Park area. Two manholes in the sewer surcharged during heavy rain events. The TVI process revealed a significant root blockage. Since MSD cleaned this section of the sewer, there have been no surcharges at the two manholes.
- Southern Outfall Overflow Conduit Approximately 300 feet of sewer was cleaned from the bend upstream of the diversion dam to a point at which the sewer changes from concrete to brick. Two illicit connections were also identified and eliminated. The project was completed in 1995.
- Southwestern Pump Station During 1996 and 1997, the Southwestern Pump Station experienced a considerable build-up of grit. The grit was removed as it accumulated. The source of the grit was investigated but never identified.

#### 3.5 COMPLIANCE SUMMARY

As presented within the paragraphs of this section, MSD has documented the municipality's efforts to maximize storage in the collection system. The documentation includes studies, reports and analyses, as follows:

- MSD has evaluated alternative methods and developed procedures to maximize collection system storage including collection system inspections, flap gate installations, dam and weir adjustments, inflow retardants, upstream detention, pump station modifications, building code changes, and real time control implementation.
- MSD has identified 82.3 million gallons of in-system and off-line storage within the CSS.
  MSD has developed a phased implementation program to fully utilize this storage using
  RTC technology. The first phase of this project, which incorporated 36 MG of in-system
  and off-line storage, was operational in April 2006.
- MSD has raised the elevations of 32 dams and weirs, providing an AAOV reduction of 219.3 MG/YR.
- MSD has performed modifications at three pump stations to provide 589 MG/YR of CSO volume reduction.



- MSD is currently implementing additional measures to maximize collection system storage. Additionally, MSD will expand its use of RTC to incorporate an additional 25.3 million gallons of existing system storage by December 2008.
- MSD will implement future phases of the RTC system as part of the LTCP.

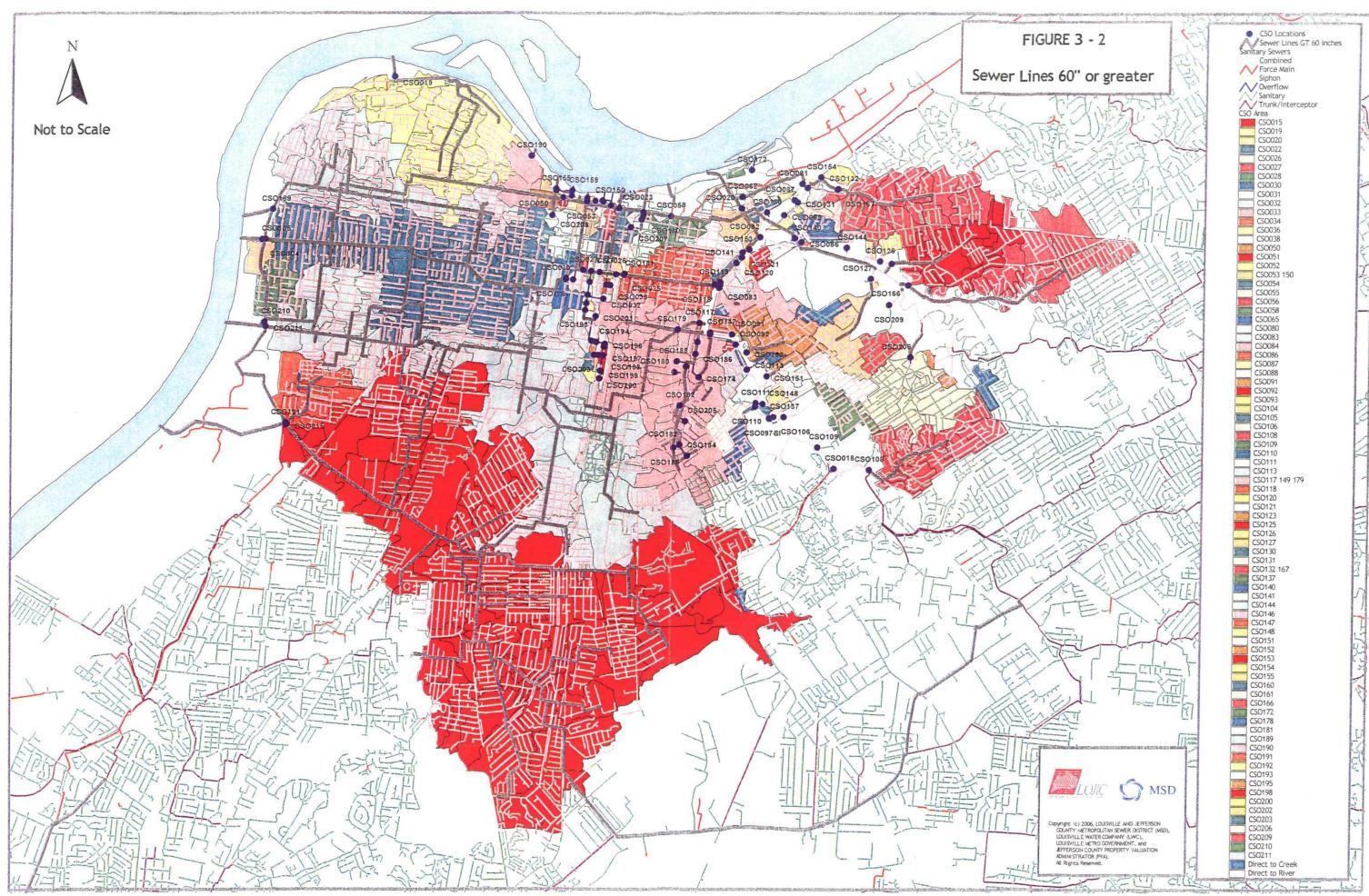
#### 3.6 LISTING OF SUPPLEMENTAL INFORMATION

Item 3-1 Evaluation of CSO Dam Elevations

## FIGURE 3-1

# LENGTH OF SEWERS GREATER THAN 5-FEET IN DIAMETER WITHIN THE CSS

CSO Area	Length (MI)	
CSO015	17.57	
CSO019	2.73	
CSO020	0.29	
CSO022	0.66	
CSO026	0.00	
CSO030	0.14	
CSO036	0.18	
CSO050	0.46	
CSO052	0.09	
CSO053 150	0.15	
CSO055	0.12	
CSO056	0.06	
CSO058	0.58	
CSO084	0.04	
CSO104	0.32	
CSO105	5.20	
CSO108	1.02	
CSO110	0.02	
CSO117 149 179	2.27	
CSO118	0.87	
CSO125	0.16	
CSO127	0.61	
CSO132 167	0.76	
CSO146	2.60	
CSO151	0.01	
CSO152	0.36	
CSO166	0.41	
CSO178	0.01	
CSO189	3.08	
CSO191	0.70	
CSO193	0.19	
CSO210	0.63	
CSO211	13.78	
Total	57.22	



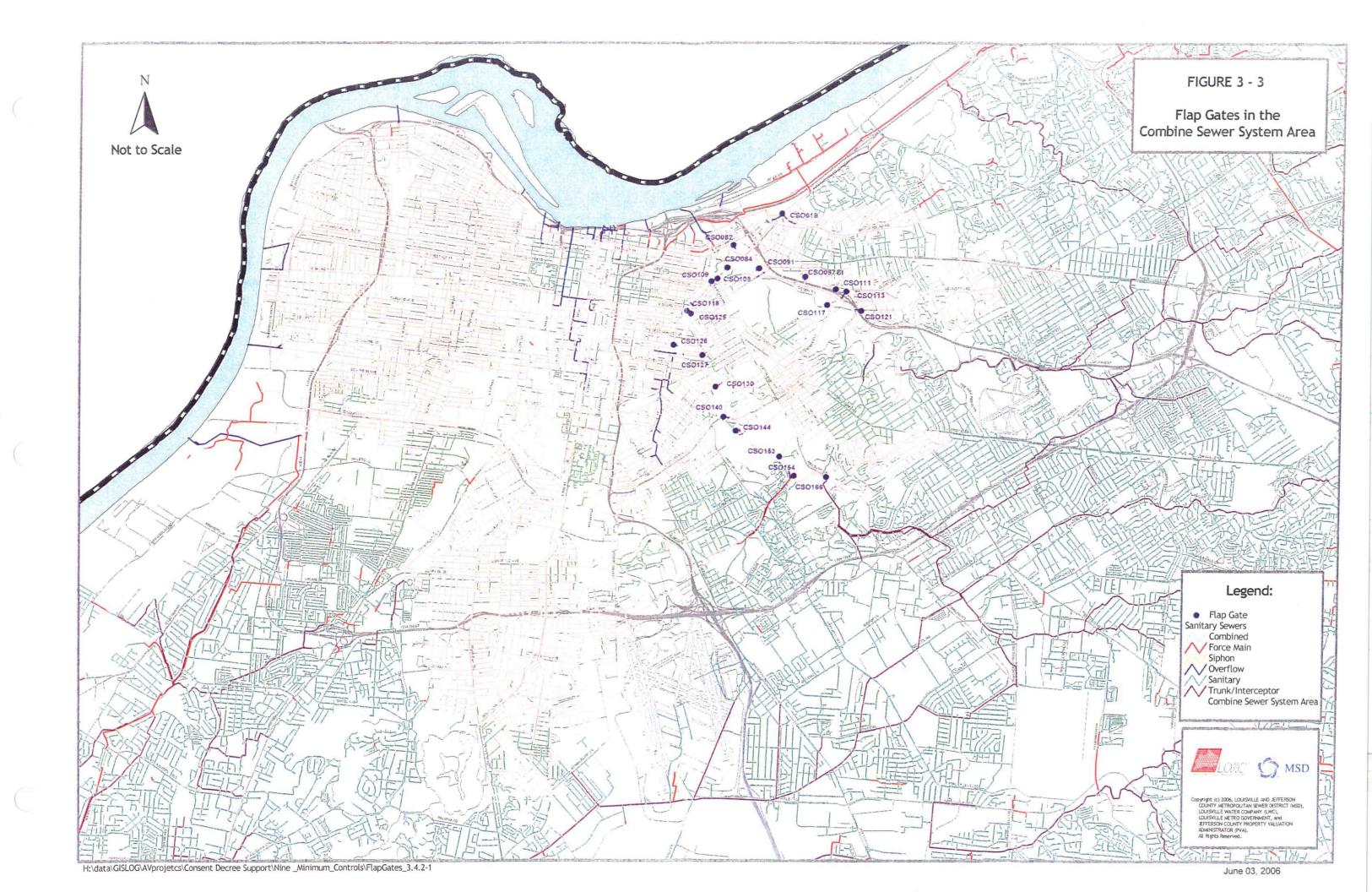
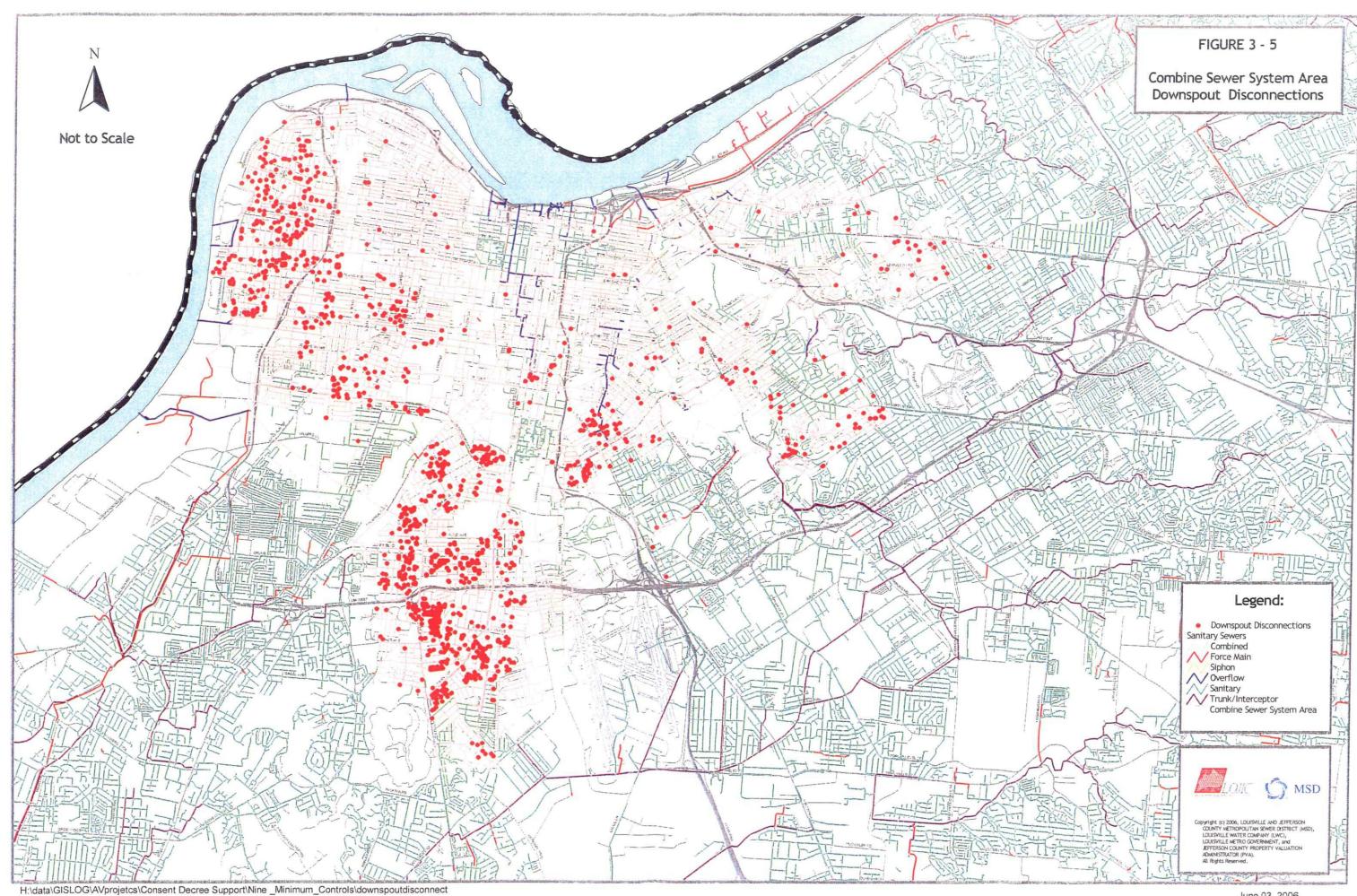


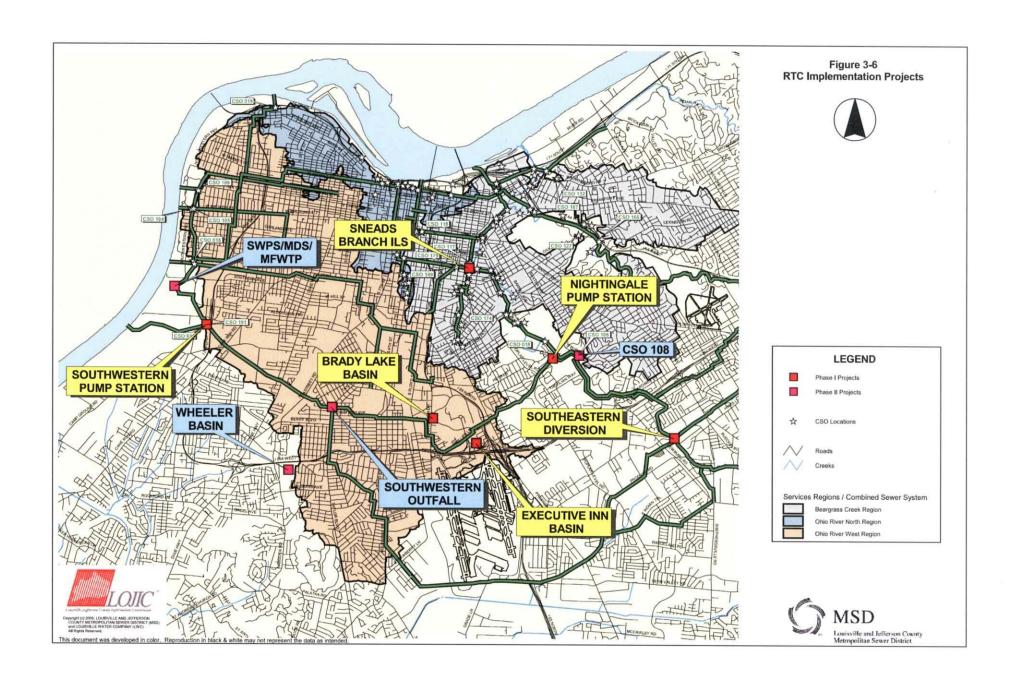
FIGURE 3-4

# DOWNSPOUT DISCONNECTIONS AS PART OF THE PLUMBING MODIFICATION PROGRAM 1994 - 2006

Year	Number of Downspouts Disconnected
9/29/1994	7
1/5/1995	298
1/5/1996	134
1/2/1997	203
1/2/1998	188
1/19/1999	131
1/5/2000	140
1/4/2001	124
1/3/2002	172
1/3/2003	86 .
2/26/2004	20
1/6/2005	6
3/7/2006	3
Total	1,512

Note: 102 Downspout Disconnections have been performed outside of the combined sewer system







To:

Angi Johnston, MSD

From: Re:

Susan Bahng & Wesley Sydnor

NMC Dam Elevation Evaluation

File:

35816.110.110#2

Date:

August 8, 2005 August 10, 2005

cc:

Gary Boblitt, OMNI Tim Kraus, OBG

Dwight MacArthur, OBG

#### T. Background

As part of the EPA's CSOs guidance for Nine Minimum Controls, an evaluation of raising oveflow dam elevations to reduce the amount of overflow volumes was conducted. As outlined in the September 24, 2003 memo, OMNI Engineers developed a list of CSO's to be evaluated and subsequently recommended the initial elevations to which each CSO dam might be raised. O'Brien and Gere utilized the XP-SWMM CSO model to evaluate the impacts of raising dams at the identified CSOs.

#### Π. Removal of CSOs for Evaluation

The OMNI memo dated September 24, 2003 outlined the process for identifying the CSO locations that would be part of the study. Below is a list of criterions used to eliminate CSOs from evaluation list.

- 1. CSOs located upstream of the SBR-ILS Inflatable Gate
- 2. CSOs that had structure modifications done previously
- 3. CSOs that had S&F Control Facilities installed or are scheduled to have them in the near future
- 4. CSOs with sewer separation project completed.
- 5. CSOs controlled by the RTC Project
- 6. CSOs with an AAOV of less than 1.0 MG/YR.

A total number of 92 CSOs was eliminated out of 114 active CSOs for the study. The final list of 22 CSOs evaluated is attached.

#### III. **Evaluation Methodology**

The work completed as part of the evaluation of CSO dam elevations was as follows:

- XP-SWMM CSS Model schematic, the MSD sewer atlas and area maps from LOJIC were produced for each CSO.
- Discrepancies between elevations in the CSS model, and in the CSO inventory were compiled and given to Jacobi Toombs & Lanz (JTL) to survey.
- JTL delivered a completed survey with surveyed dam elevations
- The confirmed dam elevations from JTL were incorporated into the XP-SWMM model,
- Model simulations for the nine historical reference storms (0.05", 0.10", 0.15", 0.20", 0.25", 1-mo, 3mo, 6-mo, and 2-yr) for the initial existing updated conditions were completed.
- Overflow volumes and water surface elevations upstream of CSOs were extracted from the CSS model and checked
- Model simulations for the nine historical reference storms for the initial modification of the dam elevations were completed based on OMNI Engineering recommendations.
- The model results for overflow volumes and backwater conditions upstream of the CSOs with dam modifications (those with discrepancies) were checked.
- Any CSO with flooding upstream prior to modification to the structure was eliminated at this stage.
- Modifications to dam elevations at the selected CSOs based on recommendations from OMNI Engineering were incorporated in the model.



#### Angi Johnston Page 2

- The CSS model was simulated for each storm with the proposed dam elevation changes included.
- Further modifications were made to the CSO Dam Elevations in order to eliminate overflows more if possible without flooding upstream manholes.
- New overflow volumes and water surface elevations post dam elevation modifications were extracted.
- Simulated CSS model utilizing typical annual rainfall data with the existing-updated and proposed dam elevation change to develop new AAOV

#### IV. <u>Discrepancies within the MSD CSO Inventory</u>

During the course of the work, it was discovered that discrepancies existed between the text defining elevations and drawings in the CSO Inventory book. To accurately portray the effects of modifying structures in the CSS, it was necessary to determine the correct existing dam elevations. JTL surveyed elevations in the field at structures where discrepancies existed. Attached is the list of CSOs which were field verified, with the updated existing dam elevations. Additional investigation of the CSO Inventory for other discrepancies may be warranted.

#### V. CSO Evaluation Criteria

In an effort to increase the height of the overflow dams to reduce overflow volumes and maximize in-line storage, further iterations were conducted, based on the effectiveness indicated by the initial dam elevation increases. CSOs were evaluated based on the reduction in overflow volumes. Once a dam elevation had been raised enough to reduce the overflow volume by 20%, no further iterations were to be pursued. Model output was reviewed to consider whether or not, and to what extent, adverse backwater conditions would develop upstream of the location where the dam elevations were increased. If adverse conditions were created at a CSO during a 2-year return frequency storm event, consideration for dam increases at this CSO was withdrawn.

#### VI. Results

Model runs for the 0.05", 0.10", 0.15", 0.20", 0.25", 1-month, 3-month, and 6-month storms were conducted with the overflow dam heights at their existing elevations. The initial set of recommended changes to dam elevations were incorporated into the model and the storms were re-simulated. The results of the model runs for the existing conditions were compared to the results from the initial set of dam elevation changes to determine the percentage decrease in the overflow volumes for eight storms at each CSO locations. A 2-year return frequency storm was also simulated to examine the backwater effects upstream of the dams at which the elevations were changed, and the results were also analyzed. Based on the extent of backwater effects or upstream surcharging, a second set of dam elevations increases were considered for selected CSO locations.

Initially, twenty-two (22) CSOs were considered for modifications to the overflow dam structures. A spreadsheet for each CSO was developed showing the total overflow volumes under existing conditions, initial modifications and the final modifications for theeight storm events noted above. Tabulation of the overflow volumes resulting from implementing the changes recommended by OMNI was then added to the existing system model run tabulations, including any iterations for multiple increases at one or more sites.

After making the initial changes, seven (7) CSO locations were considered viable for additional increases, and another series of XP-SWMM model runs was undertaken. One additional set of simulations was performed for the selected CSOs, based on the evaluation procedure previously outlined in this memo.

#### VII. Recommendations

The analysis of the results of the model runs indicated that additional capture of CSO above the current level can be achieved by increasing the overflow weir heights at the sites evaluated. The magnitudes of

these reductions are dependent on a number of factors, including the severity of specific storm events, the capacities of the interceptors to which the base flows are normally directed, and to some degree the timing of flows through the conveyance systems. As expected, the more intense storms are less affected by increasing the overflow dam elevations, while less intense events are more affected resulting in the frequency of events being reduced.

Based on the XP-SWMM simulation results for the selected CSOs we recommend that the overflow dams be raised to the elevations indicated in the following table.

CSO	Elevation		
Name	Existing	Final	Raise by
. 132	428.06	430.06	2.00
118	431.32	432.32	1.00
146	439.31	440.81	1.50
111	444.66	445.66	1.00
153	426.85	427.35	0.50
210	416.98	416.98	Do not raise
016	419.00	419.00	Do not raise
189	423.66	425.16	1.50
105	429.30	430.80	1.50
019	421.48	421.48	Do not raise
191	413.87	414.87	1.00
190	438.20	438.70	0.50
053	443.81	444.31	0.50
104	431.63	432.47	0.84
206	468.47	468.47	Do not raise
137	453.54	453.54	Do not raise
029	440.93	441.43	0.50
058	447.10	447.60	0.50
055	439.85	439.85	Do not raise
034	441.99	442.49	0.50
198	446.20	446.37	0.17
196	445.52	445.94	0.42

#### A. No Changes

At this time we recommend that no changes be made to the overflow elevation at CSOs 16, 210, 019, 206, 137 and 055. CSOs 16, 210 and 206 are already maximizing in-line storage and the increase in the water surface elevation may result in the surface flooding during larger storm events (e.g. 2-yr storm event). Backwater conditions in the downstream interceptor, possibly resulting from overflow dam improvements in downstream areas, prevent reduction in overflow volume at CSO 137 and CSO 055.

The benefits of raising the overflow weir at CSO 019 were not clearly defined in the simulations conducted as part of this effort. The model predicted that the overflow volume from this site would increase (by as much as 5000 cf under a 1-month storm condition) somewhat from current predictions. Approximately 5000 cubic feet more flow is delivered towards this CSO, and subsequently the 34<sup>th</sup> Street Pump Station, as a result of dam elevation changes upstream. Although more in-line storage could be achieved by raising this weir, the benefits impacts are not as apparent due to additional flow from upstream modifications. Potentially, two other factors could be affecting the ineffectiveness of capture at this site: the operating strategy at the 34<sup>th</sup> Street Pump Station may need to be revised, and/or increasing the size of the 24-inch regulator pipe from the overflow structure to the 34<sup>th</sup> Street Pump Station wet well

#### Angi Johnston Page 4

may need to be considered. O'Brien & Gere recommend that this site should be further investigated in the next fiscal year to clarify what is taking place at this location to identify & verify the modeling issue as well as for the future analysis purpose.

#### **B.** Recommended Changes

Based on an assessment of the model results, it appears that adequate reduction in overflow is being achieved at the following CSO locations as a result of implementing OMNI Engineering's initial recommended changes. We recommend that further increases beyond the current recommendations not be implemented.

•	CSO 132	CSO 118	CSO 111	CSO 153
•	CSO 191	CSO 190	CSO 053	CSO 029
•	CSO 058	CSO 034	CSO 198	

#### C. Additional/Increased Changes

At five locations, a potential for further reduction in overflow seemed possible by increasing the overflow weir heights somewhat higher than the initial height recommended. The following CSOs were run in the model in a second iteration, the results of which are shown in the above tabulation:

CSO 146

CSO 105

CSO 104

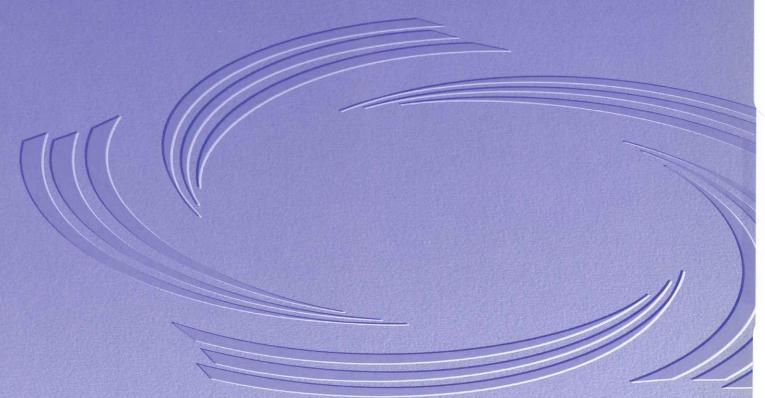
CSO 189

CSO 196

CSO	Elevation		
Name	Existing	Omni Recommended	Final
146	439.31	440.31	440.81
105	429.30	430.30	430.80
104	431.63	432.05	432.47
189	423.66	424.66	425.16
196	445.52	445.69	445.94

MSD project management should coordinate with MSD maintenance personnel to facilitate any changes to CSO structures.







## SECTION 4: NMC 3 - REVIEW AND MODIFICATION OF PRETREATMENT REQUIREMENTS

#### 4.1 INTRODUCTION

The objective of the third minimum control is to minimize the impacts of discharges into the combined sewer system (CSS) from non-domestic (i.e., industrial and commercial sources, such as restaurants and gas stations) sources during wet weather events, and to minimize CSO occurrences by modifying inspection, reporting and oversight procedures within the approved pretreatment program. Per EPA's Guidance for Nine Minimum Controls, under the third minimum control, the municipality should determine whether non-domestic sources are contributing to CSO impacts and, if so, investigate ways to control them. Once implemented, this minimum control should not require additional effort unless CSS characterization and modeling indicate that a pollutant from non-domestic source(s) is causing a specific health, water quality, or environmental problem. Steps included in the process are to inventory non-domestic dischargers to the CSS, assess the impact of non-domestic discharges to the CSS, evaluate feasible modifications to the approved pretreatment program if the assessment indicates that non-domestic sources may contribute significantly to CSOs discharge contaminant levels, and document these efforts.

#### 4.2 PRETREATMENT PROGRAM OVERVIEW

The Federal Water Pollution Control Act of 1972 initially defined the National Pretreatment Program. Section 307 of the Act required Publicly Owned Treatment Works (POTW) to develop pretreatment standards designed to prevent the discharge of pollutants from industrial users (IUs) to POTWs "which interfere with, pass through, or are otherwise incompatible with such works." The Act was amended in 1977 to require POTWs to establish local pretreatment programs to ensure compliance with the pretreatment standards. At that time, MSD had one POTW which met the requirements to implement an approved pretreatment program, the Morris Forman Wastewater Treatment Plant (MFWTP), KPDES permit #KY0022411. MSD submitted its pretreatment program application to EPA Region 4 in 1980 and the Pretreatment Program was approved by EPA in 1981. (Refer to Item 4-1 of the NMC Supplemental Information binder for documentation of MSD's pretreatment program application.) Kentucky is a delegated state, having received primacy from EPA in 1983. As such, the Commonwealth of Kentucky's Environmental and Public Protection Cabinet Department for Environmental Protection -Division of Water (DOW) is MSD's pretreatment Program Control Authority. The MFWTP is the only MSD wastewater treatment plant that serves a CSS. Since that time, three more wastewater treatment plants were added to MSD's pretreatment program: West County (WCWTP), Jeffersontown (JTWTP), and Hite Creek (HCWTP), which do not service the CSS.

The primary goals of the pretreatment program are to protect MSD's

- POTWs from interference and/or pass through,
- The collection system and receiving waters from pollutants in harmful levels, and
- The health and safety of MSD employees and the public.

MSD has implemented several programs that support the pretreatment program, some of which are required under the program and some of which are viewed by MSD as enhancements. These programs include the following:



Program	Non-Domestic Discharger (NDD)	Process	Monitoring Parameters
Pretreatment	Significant Industrial User (SIU)	Application process, inspection, minimum of biannual monitoring, Slug Control Plan	Flow and specific conventional and priority pollutants
Pretreatment	General Wastewater Discharge Permittee (GDP)	Application process, inspection, minimum of biannual monitoring	Flow and specific conventional and priority pollutants
Hazardous Materials Ordinance/Spill Prevention and Control Plan (HMPC)	Any NDD in Jefferson County that stores, uses, or manufactures a hazardous material in a reportable quantity	Application process, inspection, Best Management Practices (BMPs)	None
Industrial/Commercial Plumbing Plan Review Program (I/CPPR)	Any NDD requesting wastewater system discharge (i.e., restaurants)	Application process, inspection, BMPs	None

All of these programs are part of the process MSD utilizes to identify and categorize facilities potentially requiring a wastewater discharge permit. As such, they provide an additional level of scrutiny to identify dischargers to the CSS that may impact the environment through a CSO discharge. A description of each program is included as Appendix 4A at the back of this section.

In addition to the above programs, MSD utilizes the same methods and resources to identify potential dischargers to the CSS as it does to identify potential facilities to receive a wastewater discharge permit, including:

- Referrals from the Louisville Metro Health Department (MHD)
- Referrals from DOW
- · Referrals from the public
- New customer data referrals from the Louisville Water Company
- City/County tax base referrals and Economic Development
- Regular phone book and newspaper (Business First listings) review

The characteristics of the combined sewer system are described in Section 10 of this report. In order to assess where a particular NDD waste stream may impact the environment, a simplified system schematic has been prepared. Figure 4-1 presents the schematic connectivity of the collection system with the in-system diversions shown. The diversions were installed by MSD to allow more concentrated wastewater to be directed away from the Beargrass Creek watershed thus reducing the impact to the smaller stream when compared to the much larger Ohio River.

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MSD has accounted for the diversions which make it possible for some or all of certain NDD waste streams to discharge to the environment at multiple locations and into multiple water bodies.

# 4.3 INVENTORY OF NON-DOMESTIC DISCHARGERS TO THE CSS

MSD's CSS serves a population of approximately 324,000 in a 39-square mile service area. MSD has established an inventory of Non Domestic Dischargers (NDDs) using information from a variety of sources. Each effort to inventory NDDs will be discussed separately.

### 4.3.1 Inventory of All Businesses

Using the business coverage in the Metro ArcView database called Dialogic Business, MSD determined that there are over 27,000 facilities in the Morris Forman service area that can be possibly classified as non-domestic dischargers. This list has been evaluated and any obviously domestic strength-type entity (office building, retail outlet, etc.) was removed. The list of remaining NDD users from the Dialogic business database is sorted by CSO area and is included as Appendix 4B at the end of this section.

As noted on Page 4-2 in the "Guidance for the Nine Minimum Controls," (EPA, May 1995), due to the large number of NDD facilities, POTWs should focus efforts on those dischargers which pose the greatest risk of impacting the CSS due to the size of their discharge, the concentration of pollutants that may be contributing to water quality exceedances, or the proximity of the discharge to the outfall. In accordance with this guidance, MSD further screened the long list of NDDs to focus on the dischargers of greatest concern.

### 4.3.2 Inventory of Significant Industrial Users

MSDs pretreatment program defines a significant industrial user as follows:

- All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N;
- Any other industrial user that discharges an average of 25,000 gallons per day or more
  of process wastewater to the Morris Forman Treatment Plant (excluding sanitary, noncontact cooling and boiler blowdown wastewater);
- Any other industrial user that contributes a process waste stream which makes up 5% or more of the average dry weather hydraulic or organic capacity of the treatment plant; and
- Any other industrial user that is designated as such by MSD as defined in 40 CFR 403.12 (a) on the basis that the industrial user has a reasonable potential for adversely affecting MSD's treatment works operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8 (f)(6)).

Table 4-1 lists the inventory of SIUs and includes the CSO outfall where their wastewater is most likely to be released. MSD's pretreatment program currently has 67 users categorized as SIUs in the Morris Forman combined sewer service area. The 67 SIUs contribute approximately 9.9 MGD, making up approximately 11% of the MFWTP annual average flow. Ninety percent of that flow comes from the 23 SIUs (34% of the SIUs) which discharge greater than 0.1 MGD. An amount of 51% of the total flow comes from five SIUs which discharge more than 0.5 MGD. The listing includes SIUs whose wastewater is collected in the separate sanitary sewer system if their discharge flows into and through the CSS. This listing excludes six SIUs that discharge 7.7 mgd directly to the MFWTP, thus avoiding the CSS. Figure 4-2 shows the location of SIUs



relative to the MFWTP service area. Through the pretreatment program, MSD has collected information on SIUs wastewater discharge and strength.

#### 4.3.3 Inventory of Industries with General Permits

MSDs pretreatment program allows MSD to enter into a permit relationship with industrial users who do not meet the definition of a SIU. MSD identifies these users through a variety of techniques and issues each user an individual general wastewater discharge permit (GDP). These permits are not as burdensome on the user, but do require the user to comply with local limits, as well as site specific requirements such as maintaining a log of pH readings or a list of wastes hauled off site for disposal. By permitting these users, MSD already considers NDDs who are not necessarily required to be permitted under 40 CFR 403.

Table 4-2 lists the inventory of GDPs and includes the CSO outfall where their wastewater is most likely to be released. The 58 GDPs contribute approximately 3.0 MGD. Another 1.6 MGD (55%) of the total flow comes from eight GDPs which each discharge more than 0.1 MGD. GDPs whose wastewater are collected in the separate sanitary sewer system but flows into and through the CSS are included. Figure 4-2 shows the location of these GDPs relative to the MFWTP service area.

### 4.3.4 Inventory of High Water Users

In addition to permitted industrial users, MSD elected to review high water consuming users. In most cases, the high water use translates to high wastewater discharge. Depending on their business activity, these high water users may offer an opportunity to reduce their discharge during wet weather. MSD has obtained recent water use records from the Louisville Water Company (LWC). High volume water use was established at above 10,000 gallons per day (gpd) based on consideration of what other CSO communities (Portland, OR, and Columbus GA) have used, and the likelihood that there will be no measurable impacts from NDDs discharging less than 10,000 gpd.

Based on the flow usage information, MSD reviewed a list of 526 commercial and industrial high flow users and deleted those considered to be residential in nature, for instance parks, schools (without meal preparation), and apartment complexes. The resulting list of 126 high flow users is included along with their likely CSO discharge location in Table 4-3. Many of these users overlap the industrial (SIUs and GDPs) users in Tables 4-1 and 4-2. Therefore MSD has specific information about the quality of the majority of NDDs in Tables 4-1 and 4-2; in fact, more than 90% of the flow is already accounted for in the SIU and GDP inventory. The remaining 10% of the flow includes facilities such as nursing homes, car washes, doctor's offices, several of which have oil/water separators and/or grease traps as needed.

## 4.3.5 Inventory of Users Having a HMPC Plan

MSD is responsible for implementing and enforcing the Louisville and Jefferson County Hazardous Materials Ordinance (HMO). Any business that stores, uses and/or manufactures a reportable quantity of hazardous material is regulated by the HMO which requires these facilities to maintain a current HMPC plan. Table 4-4 lists the 1,536 entities within the Morris Forman service area that are regulated by the HMO. The intent of an HMPC plan is the prevention of accidental discharges of the regulated hazardous materials to the sewer. Any potential NDDs of concern would be on the SIU, GDP, or High Water Use List.

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#### 4.3.6 Inventory of Hospitals

Hospitals in Louisville Metro make up approximately 1% of the MFWTP flow. Hospitals have been issued a wastewater discharge permit and/or a HMPC plan by MSD. Hospitals with SIU permits have received a slug control plan evaluation and have a HMPC plan. Hospitals with a GDP permit have not been evaluated for a slug control plan; however, they have HMPC plans. In addition, MSD is modifying hospital permits/HMPC plans to include a requirement to submit inspection results of the Joint Commission on Accreditation of Healthcare Organizations (JACHO) which include a comprehensive review of standard operating procedures (SOPs) for handling bloodborne pathogens and other biohazard materials, as well as, used needles and other sharp instruments.

There is genuine interest in discharges from hospitals and other medical facilities and the potential impact on the environment. MSD has summarized the data from hospitals collected between 2000 and 2005. This data is shown in Table 4-5 by hospital, and the average of all data points is presented below.

TABLE 4-5

AVERAGE HOSPITAL WASTEWATER MONITORING DATA (13 FACILITIES)

Parameters	2000	2001	2002	2003	2004	2005	Discharge Limit
Flow, MGD	0.067	0.071	0.071	0.075	0.074	0.083	None
BOD, mg/L	236	203	171	194	218	266	None
COD, mg/L	510	391	400	426	469	552	None
TSS, mg/L	187	175	167	183	227	329	None
Silver, mg/L	0.0569	0.1307	0.0627	0.0571	0.0413	0.0347	1.2
Mercury, µg/L	0.3577	0.3384	0.4013	0.3735	0.2614	0.2227	1.5
Oil and Grease, mg/L	13	7	13	10	9	14	100
pH, standard units	7.6	7.3	7.7	7.7	7.5	7.6	5 to 11.5

Based on the average hospital monitoring data, the typical average daily flow has increased slightly over the past 6 years. BOD and TSS data has remained very close to domestic strength waste. Silver and Mercury data has shown a steady decrease during the 6 year period and Oil & Grease Hydrocarbon concentrations and pH are not cause for concern. Hospitals are not suspected to discharge Cadmium. Given the data review, hospitals are not a significant contributor of POCs as defined in Section 4.4.1. Note that hospitals are included in Tables 4-1 and 4.2 which include the CSO outfall their wastewater is most likely to be released.

### 4.3.7 Inventory Summary

Several NDD inventories have been compiled and presented: 1) all businesses 2) SIUs, 3) GDPs, 4) High Water Use, 5) HMPC, and 6) Hospitals, as a specific subset. Assessment of these inventories will be detailed in the next section.

Currently, 9 SIUs and 8 GDP facilities discharge directly to the CSS in the Beargrass Creek sewershed and 34 SIUs and 33 GDPs discharge directly to the CSS in the Ohio River sewershed. In addition, 1 SIU and 5 GDPs discharge into the separate sanitary sewer system SSS upstream of the Beargrass Creek sewershed and 15 SIUs and 11 GDPs discharge to the SSS upstream of the Ohio River sewershed. The potential impact of these discharges has been assessed, as described below.



#### 4.4 ASSESSMENT OF NON-DOMESTIC DISCHARGERS TO CSS

MSD has screened all non-domestic dischargers and reduced the list to those who may be of further interest. The next step in the evaluation was to assess the impacts of their discharge on the environment.

#### 4.4.1 Pollutants of Concern

The Kentucky Division of Water and the Ohio River Valley Water Sanitation Commission (ORSANCO) are responsible for developing a list of those waterbodies which sampling results indicate are not meeting the published water quality standards for designated use. The current listings for Beargrass Creek and the Ohio River are included in Table 4-6. The listing documents the specific stream reach, the pollutant not meeting standards, and the suspected source of the pollutant.

The pollutants of concern (POC) for Beargrass Creek are as follows:

- BOD and nutrients (for low DO/Organic Enrichment),
- Cadmium Potential detection limit issues with historical data given the recent reduction in water quality standard.
- Pathogens

The POCs for the Ohio River are as follows:

- Pathogens
- Dioxin Legacy pollutant (contaminated sediment), not of current concern in discharges
- PCBs Legacy pollutant (contaminated sediment), not of current concern in discharges

Pathogens reach the waters primarily through non-point sources and combined sewer system overflows. Control of the discharge of bacterial pollution is the subject of the LTCP and other NMCs.

Based on the evaluation of the 303(d) list, the following POCs will be considered in the balance for this evaluation:

Beargrass Creek Pollutants of Concern	Ohio River Pollutants of Concern
Bacteria (303(d) List) Cadmium (303(d) List)	Bacteria (303(d) List)
BOD (303(d) for low DO) Nutrients (303(d) for low DO)	

#### 4.4.2 Evaluation of NDD Pollutant Discharge Versus POCs

MSD narrowed the focus of future efforts by considering all users currently included in the MSD Quality Charge program (a surcharge program supported by the pretreatment program) for high concentrations of BOD and TSS, those users who have allocations of high ammonia mass discharges, and those metal finishers regulated by 40 CFR 433. Additional MSD data was used to complete the data set. A table showing the data set is provided in Table 4-7.

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# 4.4.3 Non-Domestic and Industrial Flows to the Morris Forman Wastewater Treatment Plant (MFWTP) and CSOs

This task included assessing the hydraulic impact of the NDDs in the CSS. Hydraulic data was taken from the Combined Sewer System model to establish the average daily flow during dry weather and the flow at MFWTP during an overflow event. The table below assesses the percentage of flow from each class of NDD that may end up at MFWTP. The overflow volume is not considered since it would result in even further dilution in the overflows. The net impact of NDD discharges during wet weather is reflected in the decrease from 27% of the dry weather flow to only 8% of the wet weather flow.

The percentages of domestic and non-domestic flow to the MFWTP is shown below for both Dry and Wet Weather Conditions

MORRIS FORMAN	RRIS FORMAN TOTAL (1) STORMWATER DOMESTIC FLOW	NON-DOMESTIC FLOW					
TREATMENT PLANT			FLOW	SIU	GDP	Other(2)	Total NDD
Dry Weather Average							
Flow (mgd)	90	0	66.1	17.5	3.3	3.1	23.9
Percent of Flow	100%	0%	73%	19%	4%	4%	27%
Wet Weather Average	)						
Flow (mgd)	304	214	66.1	17.5	3.3	3.1	23.9
Percent of Flow	100%	70%	22%	6%	1%	1%	8%

<sup>(1)</sup> TOTAL Flow from CSS model Simulation of typical year.

# 4.4.4 Assessment of NDDs Based on Impact on POC Discharge

MSD has evaluated the NDDs of interest presented in Table 4-7 and the high water users in Table 4-3 to assess if they should be of concern. MSD employed the criteria listed at the bottom of Table 4-7 to identify if there would be a reasonable potential for the discharge to contribute to a standard violation with some consideration for the dilution afforded by stormwater. The final list of NDDs of concern is presented in Table 4-8. MSD will assess each of these 14 companies by September 30, 2006, for feasible modifications as discussed in Section 4.7.

#### 4.5 EXISTING CONTROL MEASURES

MSD has many programmatic activities available under the pretreatment program to control the discharge of wastewater to the CSS. A brief summary of the following mechanisms is included as part of each programmatic discussion in Appendix 4A at the end of this section.

- MSDs Pretreatment Program
  - MSD Wastewater/Stormwater Discharge Regulations (WDRs)

<sup>(2)</sup> Other NDD are those with LWC use >1,000 gpd, excludes SIU and GDP



- Industrial User Permits
- Non-Compliance with Permit Limitations
- Slug Control Plans
- o Reporting for Pretreatment Program
- Best Management Practices for Dischargers to the CSS
- Flow Metering in the CSS.
- Hazardous Materials Ordinance/Spill Prevention and Control Plans
  - Hazardous Material Ordinance (HMO)
  - Motor Vehicle Accident (MVA) Mitigation Program
- Industrial/Commercial Plumbing Plan Review Program
  - o Industrial/Commercial Plumbing Plan Review

#### **4.6 PAST ACTIVITIES**

MSD has actively addressed pretreatment related initiatives within the Morris Forman service area. This section will briefly discuss past efforts and their benefit.

#### 4.6.1 Special Regulatory Actions

Special permit conditions, slug control plans, HMPC plans, and enforcement actions with requirements for remedial measures are some of the tools already utilized by MSD to protect the CSS from slug discharges and to ensure that pollution prevention measures are implemented. Following are a few examples of specific actions taken against commercial/industrial users:

- Alcoa Laminating A water conservation study requirement was written into this SIU
  permit to reduce the volume discharged to the CSS thereby freeing up capacity to the
  CSS;
- Allied Drum Services This SIU exhibited poor housekeeping and erosion control practices and was required to develop a slug control plan to address discharges to the CSS:
- Allied Ready-Mix Concrete This company received a NOV for discharge of solids to the CSS:
- Parallel Products This company was referred to the department in MSD that administers the Erosion Prevention and Sediment Control (EPSC) Ordinance in May 2003, for follow-up on an ordinance violation. The company also received a Correction Notice in 1999 to cease discharge of contaminated runoff to a drainage basin that enters the CSS.

Refer to Item 4-2 of the NMC Supplemental Information binder for documentation of each of the above pretreatment program compliance activity case histories.

### 4.6.2 Diversions to Minimize Impacts of NDD Wastewater

In order to divert as much flow as possible away from Beargrass Creek from the General Electric Appliance Park (GEAP) facility during wet weather events, MSD placed a steel diversion plate in a manhole located downstream from the facility's outfall. This plate directs GEAP flow away from the 21-inch sewer which flows north to the SE Diversion Structure sewer (eventually

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ends up at Beargrass Creek CSOs) which can overflow to Beargrass Creek during wet weather. The GEAP flow is instead directed into the 27-inch sewer that flows to the Northern Ditch interceptor (eventually ends up at Southwestern PS – Ohio River CSO). In wet weather, flow is directed toward the Northern Ditch interceptor until the capacity in the line is such that excess wastewater flows toward the 21-inch sewer and on to the SE Diversion Structure sewer.

MSD worked with a cluster of very significant industries (Rubbertown industries) to eliminate their individual direct discharges to the Ohio River in lieu of constructing infrastructure to deliver their wastewater to the MFWTP. It would have been easier for these industries to discharge to the Southwestern pump station; however, the potential impact to the environment from accepting that concentrated industrial wastewater at one of MSD's major CSOs would have been significant. MSD worked with the individual industries to construct a forcemain directly to the MFWTP. While this effort was completed in the 1970s, it shows the proactive vision to reduce risk from industrial discharges.

#### 4.6.3 Education and Awareness

During pretreatment and/or hazardous materials inspections, MSD Emergency Response Pretreatment Inspectors (ERPIs) take the opportunity to further educate permitted users located in the CSS of concerns related to CSOs. MSD takes every opportunity to inform users of the potential impacts of industrial effluent during rainfall events to the CSS. Examples include pretreatment workshops and conferences sponsored or co-sponsored by MSD and reiterating this information during pretreatment and hazardous materials inspections. MSD also participates in food service annual conference trade shows, has developed a grease video/DVD and brochures, places advertisements in food service trade journals and sends information to customers in billing inserts.

#### 4.6.4 Integrated Inspection Form

MSD developed an inspection form that facilitated a multi-programmatic inspection approach. The Integrated Inspection Form was developed for ERPIs use to conduct multi-media inspections at SIUs and other permitted facilities inside, as well as outside the CSS. The form facilitates documentation of pretreatment and HMO program related information, as well as recording of pertinent Pollution Prevention (P2), MS4 and CSS related information such as water conservation activities and wet weather runoff controls. Refer to Figure 4-12 for a copy of the Integrated Inspection Form.

#### 4.6.5 Inspection Frequency

Under the General Pretreatment Regulations, MSD is required to inspect SIUs annually. However, MSD typically inspects SIUs more than once per year. In addition, most are inspected under the HMO program at least annually. MSD is of the opinion that this level of frequency of inspections coupled with use of the Integrated Inspection Form improves our success in addressing wet weather concerns.

## 4.6.6 Unusual Discharge Requests within the CSS

One category of wastewater discharge permits is the Unusual Discharge Request (UDR) permit. It is an excellent tool put in place as a control strategy at a user's facility. UDR permits are a mechanism to protect the MSD collection system. UDR permits have also been utilized by MSD management many times since the late 1990s in the context of CSO mitigation. A specific



example is the use of a UDR permit to that allows MSD to manage and control wastewater created during the decommissioning of facilities located within the CSS. Wastewater discharged due to major Brownfield redevelopment projects such as the University of Louisville Papa John's Cardinal Stadium and the Louisville Slugger Field Stadium, has occurred under UDR permits. In addition, collection system capacity issues are routinely addressed within the UDR permitting process. UDR permits specifically deny discharge during and for specified timeframes after rainfall events. Failure to comply with the conditions of a UDR permit is met with the same enforcement actions as noncompliance with permit conditions.

UDRs from facilities located within the CSS are given extra scrutiny by MSD. In addition to the standard UDR permit requirement to submit analytical results for POCs, other constraints listed below are placed on UDR permits from facilities located within the CSS:

- Limiting the timeframe or time of day of the discharge;
- Limiting the rate of discharge (gallons per minute or gallons per day);
- Requiring the discharge to cease for some amount of time during and after a rain event to allow the system to return to normal; and
- Requiring treatment, capture and re-testing prior to discharge.

If MSD deems that the discharge should be monitored as it occurs, MSD staff will be assigned to perform the monitoring or the discharger will be required to monitor and provide the results to MSD. In addition, MSD may elect to periodically inspect the discharge site to verify that discharge constraints and requirements are being followed. Refer to Item 4-5 of the NMC Supplemental Information binder for examples of UDR approval letters with wet weather discharge constraints.

#### 4.6.7 Restrictions on New SIUs Discharges

New SIU dischargers to the CSS are required to install pretreatment or BMPs to preclude the discharge of POCs during wet weather. For example, a facility may be required to hold all or part of its process wastewater during and for a specified timeframe after a rain event of a predetermined magnitude. Since the facility has not yet been constructed when MSD reviews plans, additional holding capacity is easier to construct. BMP requirements are formalized in the SIUs wastewater discharge permit and may include requirements for a maximum discharge rate and to record the dates when such strategies are employed, as well as the volume held and released later. Refer to Item 4-6 in the Supplemental Information binder for an example permit in the CSS with wet weather discharge constraints.

#### 4.6.8 SIU Survey for Wet Weather Detention

In 2004, MSD sent a wet weather survey to SIUs located in the CSS. The survey was accompanied by a cover letter that explained the impacts of overflows on the environment, as well as encouraged the SIUs to implement pollution prevention initiatives to reduce/eliminate the potential impact of discharges from their facilities during wet weather. One of the questions on the survey inquired whether the SIUs were able to store process wastewater during wet weather. Refer to Appendix 4D at the end of this section for an example of the letter, as well as a completed and submitted survey from a SIU.

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### 4.7 EVALUATE FEASIBLE MODIFICATIONS

The Guidance states that "All POTW's with approved pretreatment programs are required to notify and obtain approval from the approval authority for all substantial pretreatment program modifications. Substantial modifications include changes to legal authorities, local limits (if made less stringent), and control mechanisms. In addition, POTWs with approved pretreatment programs must notify the approval authority of any non-substantial pretreatment program modification."

If the assessment of non-domestic dischargers to the CSS indicates that a particular non-domestic discharger significantly impacts the CSS, MSD's Pretreatment Program and WDRs are currently structured to allow the enforcement of appropriate requirements on users of the CSS. Mechanisms include significant modifications such as revision of MSD's existing WDRs and non-substantial modifications such as permit modifications with appropriate requirements, including but not limited to BMPs (hold and release) and slug control plans. Requirements placed on SIUs discharging to the CSS will be reported in the Semi-annual Pretreatment Report and Annual Pretreatment Report. In addition, MSD will seek approval from the Kentucky Division of Water (DOW), if the WDRs are revised. MSD will inform DOW of those non-substantial modifications that are implemented to address discharges from users within the CSS.

MSD is reviewing discharges to the CSS from those SIUs already holding a valid wastewater discharge permit. MSD will contact individual permit holders who are NDDs of concern to discuss MSD's concerns with their respective discharges to the CSS during wet weather, as well as implementation of physical controls and/or feasible BMPs to address those concerns.

#### 4.7.1 Inspection and Evaluation of Control Opportunities

By September 30, 2006, MSD will perform site inspections at each of the 14 NDDs of concern listed in Table 4-8, to explore feasible modifications to their wastewater discharges to mitigate impacts. MSD will complete a standard evaluation form for each facility as documentation of the effort. It is anticipated that not every NDD of concern will need to or be able to change their discharge practices. One benefit of the inspection process is MSD will be able to educate the NDD of the concern over their discharge.

#### 4.7.2 Modifications to Program

Prior to September 30, 2006, MSD will implement modifications deemed feasible in the evaluation performed in Section 4.7.1. MSD's WDRs provide the opportunity to use permits to require actions by the permittee. Issuance of revised permits or new permits is considered a minor modification to the pretreatment program and only requires DOW to be informed of the change. Based on the flexibility already in the WDRs, MSD does not anticipate any major modifications, such as revisions to the WDRs that would require regulatory approval.

### 4.7.3 CSO-SIU Project

In 2001, MSD assessed the potential risk of water quality impairments associated with wet weather discharges from SIUs, as well as GDPs such as hospitals and food processing plants, located on and upstream of the CSS.

Beginning in 2005, MSD began a similar review of the Ohio River CSO sewershed. This project has been named the SIU-CSO project. MSD is committed to completing this evaluation as part of the LTCP. Details of this project are included in Appendix 4C at the end of this section.



#### 4.8 COMPLIANCE SUMMARY

The previous sections describe the status of MSD's program for minimizing the impacts of discharges into the CSS from non-domestic sources during wet weather events, and for minimizing CSO occurrences by modifying inspection, reporting and oversight procedures within the approved pretreatment program. MSD's inventory and assessment of the potential impacts of non-domestic dischargers to the CSS is a continuous effort and therefore part of day-to-day programmatic functions. As technology changes and water quality standards are updated, MSD will continue to enhance existing programs, as well as develop and implement new ones in order to better assess these potential impacts.

MSD has completed the inventory phase of NDDs and the assessment phase for potential impacts on CSO pollutant loads. MSD is currently performing site assessments of 14 individual NDDs of concern and will complete this effort by September 30, 2006. If the site assessments indicate the need, MSD will modify existing controls on permitted non-domestic dischargers to the CSS, as well as require controls on those non-domestic dischargers without a permit. If the NDDs are found to have a potentially significant impact on CSO discharges of POCs, a permit will be issued. MSD will complete the long-term CSO-SIU project outlined in the appendix during preparation of the LTCP. Additionally, MSD will reassess the impacts of non-domestic dischargers to the CSS subsequent to triennial reviews of water quality standards by DOW.

#### 4.9 LISTING OF SUPPLEMENTAL INFORMATION

The following information is included in separate binders.

Item 4-1 Pretreatment Program Application Documentation

Item 4-2 Pretreatment Program Control Mechanism Documents

- Alcoa Laminating Permit water conservation study requirement
- Allied Drum Service slug control plan
- Allied Ready Mix WDR Notice of Violation
- Parallel Products EPSC Notice of Violation

Item 4-3 Hazardous Materials Control Program Documents

- Hazardous Materials Ordinance
- Example HMPC Plans
- Preliminary Response Report form
- Emergency incident listing for the month of April 2006.

Item 4-4 Slug Control Program Documents

- Slug Control Questionnaire form (blank and completed)
- Item 4-5 Examples of UDR Approval Letters with Wet Weather Discharge Constraints (CSS)
- Item 4-6 Example Wastewater Discharge Permit in the CSS with Wet Weather Discharge Constraints

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#### 4.10 LISTING OF APPENDICES

The following appendixes are included at the back of this section:

- 4A Summary of Existing Programmatic Measures
  - · Pretreatment Program
  - Hazardous Materials Ordinance/Spill Prevention and Control Plans
  - Industrial/Commercial Plumbing Plan Review Program
- 4B Inventory of All Non Domestic Dischargers Within MFWTP Service Area
- 4C Summary of MSD LTCP IU-CSO Project
- 4D SIU Survey for Wet Weather Detention

# TABLE 4-1 SIGNIFICANT INDUSTRIAL USERS WITHIN MFWTP SERVICE AREA

	Permit		Avg Daily Flow	
Industrial User Name	No.	Address	(GPD)	Tributary to CSO#
THE FOLLOWING INDUSTRIES DISCHARGE DIRECTLY TO MFWTP			<u> </u>	***************************************
DUPONT PERFORMANCE ELASTOMERS	4502	4242 CAMP GROUND RD	2.6978	Dubborhour FAt (Name)
OXY VINYLS, LP		4014 BELLS LN	2.3668	Rubbertown FM (None) Rubbertown FM (None)
E.I. DU PONT DE NEMOURS & CO., INC. DUPONT FLUOROPRODUCTS	2000	TOTA BEELO EN	2.3000	(None)
DUPONT LOUISVILLE WORKS	2230	4200 CAMP GROUND RD	1.3100	Rubbertown FM (None)
ROHM AND HAAS CHEMICALS LLC - LOUISVILLE PLANT				
	6810	4300 CAMP GROUND RD	0.8942	Rubbertown FM (None)
MADATUON ACUI AND DETROLEUM LLO DULK TERMINAL	070	4540 ALCONOLINI DICK	0.4040	C. V. MENED
MARATHON ASHLAND PETROLEUM LLC BULK TERMINAL	2/0	4510 ALGONQUIN PKY	0.4012	Gravity to MFWTP
SUPERIOR TRUCK SERVICES ROGERS CARTAGE	6800	1401 SOUTHWESTERN PKY	0.0165	MDS (CSO 211)
		, io. OodiiiwEoiEiiwi	0.0100	100 (000 211)
		TOTAL FLOW DIRECT TO MFWTF	7.6865	
THE FOLLOWING INDUSTRIES DISCHARGE INTO THE CO.				
THE FOLLOWING INDUSTRIES DISCHARGE INTO THE CSS GENERAL ELECTRIC CONSUMER PRODUCTS APPLIANCE PARK	2950	4000 BUECHEL BANK RD	1.9826	Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFT & COMPANY		1200 STORY AVE	0.8949	CSO130
SUD-CHEMIE INC. WEST PLANT WEST CATALYST PLANT UNITED	240	1200 OTORTAVE	0.0373	000130
CATALYSTS, INC.	8212	1227 S 12TH ST	0.8296	MDS (CSO 211)
FORD MOTOR COMPANY LOUISVILLE ASSEMBLY PLANT		2000 FERN VALLEY RD	0.7091	Northern Ditch & SW Sanitary Service Area (CSO 015
SOLAE L.L.C. DUPONT SOY POLYMERS PTI, PREVIOUSLY RALSTON				
PURINA, PROTEIN TECHNOLOGIES	6491	2441 S FLOYD ST	0.6547	MDS (CSO 211)
ENGELHARD CORPORATION HARSHAW CHEMICAL HARSHAW	0070	A 400 BANK OT	0.4000	00000
CHEMICAL COMPANY UNIVERSITY MEDICAL CENTER, INC. UNIVERSITY OF LOUISVILLE	33/0	3400 BANK ST	0.4693	CSO019
HOSPITAL FORMERLY GALEN OF VIRGINA	3850	530 S JACKSON ST	0.3136	CSO118
SOUTHERN CLAY PRODUCTS INC		1325 S 13TH ST	0.2923	MDS (CSO 211)
REGIONAL AIRPORT AUTHORITY LOUISVILLE INTERNATIONAL AIRPORT	1		1	
STANDIFORD FIELD		700 ADMINISTRATION DR	0.2631	CSO015
DEAN MILK		4420 BISHOP LN	0.2449	Nightingale PS (CSO 015 or South Fork CSOs)
GOLDEN FOODS, L.L.C. LOUISVILLE EDIBLE OIL PRODUCTS, (LEOP)		2520 7TH STREET RD	0.2392	CSO015
SUD-CHEMIE INC. SOUTH PLANT UNITED CATALYSTS INC.	8210	4900 CRITTENDEN DR	0.2376	Northern Ditch & SW Sanitary Service Area (CSO 015
OPTA FOOD INGREDIENTS, INC. LOUISVILLE FIBER FACILITY	0750	1404 LOCUET CT	0.2274	000100
WILLIAMSON FIBER	9/58	1401 LOCUST ST	0.2371	CSO130
BROWN-FORMAN CORPORATION EARLY TIMES DISTILLERY COMPANY	990	2921 DIXIE HWY	0.2164	CSO015
CASA DE ORO FOODS MESA FOODS		3701 W MAGNOLIA AVE	0.2017	MDS (CSO 211)
HEAVEN HILL DISTILLERIES, INC. BERNHEIM DISTILLERY SCHENLEY			1	,,
DISTILLERS, UNITED DISTILLERS MANUFACTURING, INC.		1701 W BRECKINRIDGE ST	0.1700	CSO105
AFFORDABLE WASTE MANAGEMENT, INC.		3848 TUCKER AVE	0.1600	CSO015
UNIVERSAL LINEN SERVICE	8113	1803 COMMERCE RD	0.1533	MDS (CSO 211)

TABLE 4-1 SIGNIFICANT INDUSTRIAL USERS WITHIN MFWTP SERVICE AREA

	Permit			l was participated	
Industrial User Name	No.		Address	Avg Daily Flow (GPD)	Tributary to CSO#
UNITED PARCEL SERVICE GRADE LANE FACILITY		911	GRADE LN	0.1531	Northern Ditch & SW Sanitary Service Area (CSO 015
PARALLEL PRODUCTS OF KENTUCKY INC.			BERNHEIM LN	0.1470	CSO015
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER VETERANS	17000	1020	DERIVITION LIV	0.1470	
ADMINISTRATION HOSPITAL	8310	800	ZORN AVE	0.1239	Muddy Fork (CSO 154)
BROWN-FORMAN DISTILLERY CO. LOUISVILLE PRODUCTION		1000	201117172	0.1200	Maddy 1 of (000 104)
OPERATIONS OLD FORRESTER DISTILLERY	1712	850	DIXIE HWY	0.1111	CSO105
FORTH TECHNOLOGIES, INC. BERGMAN FACILITY			BERGMAN ST	0.1009	CSO117 149 179
MEDICAL CENTER LAUNDRY			STORY AVE	0.0845	CSO130
RC-CANADA DRY BOTTLING CO.			STRAWBERRY LN	0.0788	Northern Ditch & SW Sanitary Service Area (CSO 015
ALLIED DRUM SERVICE, INC.			COLORADO AVE	0.0611	MDS (CSO 211)
WYNN STARR FOODS OF KENTUCKY DRYMILK, INC., COMMERCIAL	1	<del> </del>		0.0011	11110 (000 211)
CREAMERY	7015	4820	ALLMOND AVE	0.0579	Northern Ditch & SW Sanitary Service Area (CSO 015
D. D. WILLIAMSON & COMPANY			PAYNE ST	0.0544	CSO140
TRI-STATE PLATING, INC.			QUALITY CHOICE PL	0.0512	MDS (CSO 211)
DERBY CITY TANK WASH, INC.			BELLS LN	0.0468	CSO015
G&K SERVICES, INC.			MAPLE ST	0.0430	CSO105
TEMPLE-INLAND INLAND PAPERBOARD AND PACKAGING, INC.					
LOUISVILLE #015 INLAND PAPERBOARD AND PACKAGING, INC.	3920	4201	OLD SHEPHERDSVILLE RD	0.0377	Southeast Diversion (CSO 015 or South Fork CSOs)
ADVANCED FILTRATION TECHNOLOGY INC.	7105	3111	DIXIE HWY	0.0346	CSO015
DAWN FOOD PRODUCTS	1951	6303	KENJOY DR	0.0304	Northern Ditch & SW Sanitary Service Area (CSO 015
S & S PORCELAIN METALS LLC			S 13TH ST	0.0295	MDS (CSO 211)
BAE SYSTEMS LAND & ARMAMENTS L.P.			ROCHESTER DR	0.0290	CSO015
LIQUID TRANSPORTERS, INC. TRIMAC TRANSPORTATION, INC.	4790	3710	CANE RUN RD	0.0286	CS0015
PURITAN CLEANERS, INC.	9415	206 V	V BRECKINRIDGE ST	0.0268	CSO117 149 179
R.A.R. TANK CLEANING & REPAIR SPECIALIST BRITE CLEAN INC. /					
MATLACK, INC.	2375	4107	BELLS LN	0.0267	CSO191
PPG ARCHITECTURAL FINISHES, INC. PORTER PAINTS, PLANT #1					
PORTER PAINT #1, COURTAULDS COATINGS	6340	400 8	S 13TH ST	0.0248	CSO105
KENTUCKIANA TANK WASH, INC.	9752	1611	WATHEN LN	0.0213	CSO015
MULTI METALS DIVISION VERMONT AMERICA CORP.			GRAY ST	0.0196	CSO118
AST ELECTROFIN APPLIED SURFACE TECHNOLOGIES	9836	1423	W ORMSBY AVE	0.0188	CSO105
DANT CLAYTON			BERNHEIM LN	0.0168	CSO015
SUPERIOR TRUCK SERVICES ROGERS CARTAGE			SOUTHWESTERN PKY	0.0165	MDS (CSO 211)
STIGLITZ CORPORATION INC. PLANT 1			MELLWOOD AVE	0.0152	Muddy Fork (CSO 154)
BIO ADDITIVES, LLC	5920	4820	JENNINGS LN	0.0144	Northern Ditch & SW Sanitary Service Area (CSO 015
KENTUCKY ASSOCIATION OF ELECTRIC COOPERATIVES, INC. 4515					
BISHOP LN.			BISHOP LN	0.0143	Nightingale PS (CSO 015 or South Fork CSOs)
NSS ENVIRONMENTAL, INC.			VINE CREST AVE	0.0138	Middle Fork Upstream of Breckenridge (various)
ALLWASTE CONTAINER SERVICES PSC PHILIPS SERVICES			MILLERS LN	0.0134	CSO015
BENEKE WIRE COMPANY BENEKE SPECIALTY ALUMINUM WIRE	7183	5540	NATIONAL TPKE	0.0111	Northern Ditch & SW Sanitary Service Area (CSO 015
ALLIANCE LAUNDRY SYSTEMS, LLC					
831 SOUTH FIRST STREET			S 1ST ST	0.0091	CSO117 149 179
NTH WORKS - ALLMOND PLANT			ALLMOND AVE	0.0086	CSO015
CHALLENGER LIFTS			CABEL ST	0.0061	DTOR
KELLY FABRICATORS CORPORATION	6674	<u> 13314</u>	GILMORE INDUSTRIAL BLVI	0.0046	Northern Ditch & SW Sanitary Service Area (CSO 015

TABLE 4-1
SIGNIFICANT INDUSTRIAL USERS WITHIN MFWTP SERVICE AREA

	Permit		Avg Daily Flow	
Industrial User Name	No.	Address	(GPD)	Tributary to CSO#
GREENLEE TEXTRON, INC. TEXTRON, INC. BUNTON COMPANY, INC.	636	4601 E INDIAN TRL	0.0032	Northern Ditch & SW Sanitary Service Area (CSO 015
GRINDMASTER CORPORATION	4672	4003 COLLINS LN	0.0027	
ZOELLER PUMP COMPANY, LLC ZOELLER COMPANY	4619	3649 CANE RUN RD	0.0021	CSO015
FABRICATED METALS CORPORATION	4450	6300 KENJOY DR	0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015
HESCO PARTS LLC	1722	990 S 9TH ST	0.0008	CSO178
C. LEE COOK DIVISION OF DOVER CORPORATION	2140	916 S 8TH ST		CSO178
UTILITY METALS DIV OF FABRICATED METALS	3912	6210 STRAWBERRY LN	0.0006	Northern Ditch & SW Sanitary Service Area (CSO 015
REYNOLDS METALS COMPANY LOUISVILLE FOIL PLANT ALCOA INC.	6630	2827 HALE AVE	0.0004	CSO105
KENTUCKY TRAILER, R.C. TWAY COMPANY, INC	4321	2601 S 3RD ST	0.0002	MDS (CSO 211)
PROGRESS RAIL SERVICES LINCOLN INDUSTRIES DIVISION LINCOLN				
INDUSTRIES	4611	8020 NATIONAL TPKE	No data in LIMS	Northern Ditch & SW Sanitary Service Area (CSO 015
AST/ACME COATINGS & LININGS TECHNOLOGY PARK/	7883	100 ROCHESTER DR		Northern Ditch & SW Sanitary Service Area (CSO 015
SANDVIK SORTING SYSTEM	9855	500 E BURNETT AVE	No data in LIMS	CSO117 149 179
Total MGD from all 67 SIUs that discharge to CSS			9.8672	
Total MGD from 5 SIUs discharging > 0.5 MGD			5.0708	51%
Total MGD from 18 SIUs discharging 0.5 MGD> x > 0.1 MGD			3.8346	39%
Total MGD from 23 SIUs (34%) discharging > 0.1 MGD			8.9054	90%

HOSIPTALS ARE HIGHLIGHTED

# TAb 4-2 GDP WITHIN MFWTP SERVICE AREA

General Industrial User Name	Permit No.	Address	Avg Daily Flow (MGD)	Tributary to CSO#
THE FOLLOWING INDUSTRIES DISCHARGE DIRECTLY TO MEWTP				
CARBIDE INDUSTRIES LLC THE CARBIDE/GRAPHITE GROUP,				
INC., AIRCO CARBIDE, C/G GROUP	00	4400 BELLS LN	0.4000	D I) 4 F1441 >
CHEVRON PRODUCTS COMPANY LIGHT OIL (LOUISVILLE)	30	4400 DELLOLIN	0.1990	Rubbertown FM (None)
TERMINAL	04.4	4404 DELLOIN		
ECKART AMERICA CORPORATION		4401 BELLS LN	0.0538	Gravity to MFWTP
ZEON CHEMICALS INC. RESEARCH & DEVELOPMENT CENTER		4101 CAMP GROUND RD	0.0402	Rubbertown FM (None)
ELON OF ILMICALS INC. INCOLAROFF & DEVELOPMENT CENTER	9728	4111 BELLS LN		Gravity to MFWTP
		TOTAL FLOW DIRECT TO MFWTP	0.3650	71
THE FOLLOWING INDUSTRIES DISCHARGE INTO THE CSS				111111111111111111111111111111111111111
NATIONAL TOBACCO COMPANY LORILLARD	4050	2000 W MURIAAMAD ALL DIVE		
JEWISH HOSPITAL HEALTHCARE SERVICES	4650	3029 W MUHAMMAD ALI BLVD		CSO189
BLUEGRASS COOPERAGE COMPANY		217 E CHESTNUT ST		DTOR
DEGECTAGE CONFANT	/10	402 MACLEAN AVE	0.2241	Northern Ditch & SW Sanitary Service Area (CSO 015
BAPTIST HEALTHCARE SYSTEM, INC. BAPTIST HOSPITAL EAST	200	4000 KDEOOE WAY		
CORHART REFRACTORIES CORPORATION		4000 KRESGE WAY		Middle Fork Upstream of Breckenridge (various)
B.P. PRODUCTS NORTH AMERICA, INC.		1600 W LEE ST		MDS (CSO 211)
NORTON AUDUBON HOSPITAL COLUMBIA, GALEN, HUMANA		3130 POPLAR LEVEL RD	0.1589	Nightingale PS (CSO 015 or South Fork CSOs)
THE COURIER JOURNAL CO.		1 AUDUBON PLAZA DR	0.1311	Nightingale PS (CSO 015 or South Fork CSOs)
EXECUTIVE INN HOTEL (EAST) HOME SUPPLY COMPANY		525 W BROADWAY		CSO026
		978 PHILLIPS LN		CSO015
NORTON HOSPITAL NORTON HOSPITAL		200 E CHESTNUT ST		DTOR
NORTON HOSPITAL INC. DBA, NORTON SUBURBAN HOSPITAL		4001 DUTCHMANS LN	0.0918	Middle Fork Upstream of Breckenridge (various)
EXECUTIVE WEST HOTEL FLORIDA DISTILLERS COMPANY	***************************************	830 PHILLIPS LN	0.0897	CSO015
PADADICE TOWATO KITCHENO CARDEN BARK		3290 7TH STREET RD	0.0803	CSO015
PARADISE TOMATO KITCHENS - GARDEN PARK	9913	1600 CRUMS LN	0.0801	Northern Ditch & SW Sanitary Service Area (CSO 015
ALCOA FLEXIBLE PACKAGING LOUISVILLE LAMINATING PLANT				
REYNOLDS METALS, ALCOA ALUMINUM, ARCO	4362	1225 W BURNETT AVE	0.0731	MDS (CSO 211)
EMCOR FACILITIES SERVICES PNC PLAZA PNC PLAZA, EMCOR				
FACILITIES SERVICES		500 W JEFFERSON ST		CSO055
PARADISE TOMATO KITCHENS		1500 S BROOK ST	0.0696	CSO117 149 179
KENT FEEDS, INC.	9879	932 E CHESTNUT ST	0.0639	DTC
AKZO NOBEL RESINS/ LOUISVILLE RESINS/ RELIANCE				1000
UNIVERSAL	6610	4730 CRITTENDEN DR	0.0537	CSO015
PETTIT ENVIRONMENTAL, INC.		340 BYRNE AVE		MDS (CSO 211)
NORTON HEALTH CARE PAVILION ALLIANT MEDICAL PAVILION				
METHODIST HOSPITAL	5410	315 E BROADWAY	0.0431	CSO118
CULINARY STANDARDS CORP. STANDARD FOODS	7641	1101 E WASHINGTON ST	0.0356	<u>, , , , , , , , , , , , , , , , , , , </u>
WHAYNE SUPPLY COMPANY	8620	1400 CECIL AVE		MDS (CSO 211)
DAIRY FARMER'S OF AMERICA DAIRYMAN, INC., MID AMERICA	***************************************	· Walter in the second	0.000-7	
DAIRYMEN, INC.	1871	3941 BUECHEL BANK RD	0.0348	Southeast Diversion (CSO 015 or South Fork CSOs)
WEYERHAEUSER COMPANY FORMERLY WILLAMETTE		777111	0.0040	Coductor Diversion (COO 010 of South Pork CSOS)
INDUSTRIES, INC.	790	4400 PROGRESS BLVD	0.0325	Southeast Diversion (CSO 015 or South Fork CSOs)
KINDRED HOSPITAL-LOUISVILLE VENCOR HOSPITAL / ST.			0.0020	Countries Diversion (COO 015 of South Folk CSOS)
ANTHONY MEDICAL CENTER	6940	1313 ST ANTHONY PL	0 0343	CSO083
KEEBLER MOTHERS COOKIE COMPANY		2287 RALPHAVE		CSO015
į.			0.0309	000010
KOSAIR CHILDREN'S HOSPITAL KOSAIR CHILDREN'S HOSPITAL	2097	231 E CHESTNUT ST	0.0260	CSO118

# TABLE 4-2 GDP WITHIN MFWTP SERVICE AREA

General Industrial User Name	Permit No.	Address	Avg Daily Flow (MGD)	Tributary to CSO#
CHEVRONTEXACO GLOBAL LUBRICANTS LOUISVILLE	SESSION DET. CALVO		I service Constant Constant	
IDISTRIBUTION CENTER	1420	430 W CARDINAL BLVD	0.0255	MDS (CSO 211)
NORFOLK SOUTHERN RAILWAY COMPANY ROUNDHOUSE -	1420	1430 W CARDINAL BLVD	0.0255	IMD3 (C3O 211)
MAINTENANCE DEPT. NORFOLK SOUTHERN RAILWAY	7504	ETE NIGATURE	0 0047	000010
KENTUCKY AIR NATIONAL GUARD		575 N 34TH ST		CSO019
HADDAD'S AUTO SERVICE HADDAD MARATHON		1101 GRADE LN		Northern Ditch & SW Sanitary Service Area (CSO 015
REPUBLIC INDUSTRIES, INC. REPUBLIC DIESEL		1132 E ST CATHERINE ST		CSO092
		3000 W BROADWAY		CSO105
CENTRAL STATION, LLC	/125	215 CENTRAL AVE	0.0103	MDS (CSO 211)
REYNOLDS METALS COMPANY PLANT NO. 15 ALCOA EXTRUDED				
HEAT EXCHANGER PRODUCTS ALCOA EXTRUDED		4301 PRODUCE RD	0.0073	Northern Ditch & SW Sanitary Service Area (CSO 015
IVY HILL CORPORATION COURIER GRAPHICS		4325 SHEPHERDSVILLE RD	0.0050	Southeast Diversion (CSO 015 or South Fork CSOs)
PICCADILLY CAFETERIA FORMERLY MORRISONS CAFETERIA		133 S HURSTBOURNE PKY	0.0049	Middle Fork Upstream of Breckenridge (various)
SMURFIT-STONE CONTAINER ENTERPRISES, INC.		6820 ENTERPRISE DR	0.0042	Northern Ditch & SW Sanitary Service Area (CSO 015
ATLANTIC AVIATION SERVICES	5679	1131 STANDIFORD AVE	0.0040	Northern Ditch & SW Sanitary Service Area (CSO 015
MIDWEST ENVIRONMENTAL SERVICES, INC. SEE 5090, KYANA				
WASTE OIL SERV.	2117	3601 PARKER AVE	0.0036	CSO189
NATIONAL PRODUCTS COMPANY L.L.C.	2572	900 BAXTER AVE	0.0033	CSO084
GREYHOUND LINES INC. GREYHOUND CORPORATION	3100	830 S 13TH ST	0.0012	CSO105
BLUEGRASS KESCO, INC.	7795	1101 INDUSTRIAL BLVD	0.0008	Northern Ditch & SW Sanitary Service Area (CSO 015
DAIRY MART CONVENIENCE STORE 710; LIQUIDATING TRUSTEE				
MR. WAYNE WALKER	8891	4955 BROWNSBORO RD	0.0004	ORFM (CSO 211)
SYPRIS TECHNOLOGIES TUBE TURNS TECHNOLOGIES, INC.	8150	2900 W BROADWAY	0.0003	CSO105
SPORTPAINT PLANT #2		4015 PRODUCE RD		Northern Ditch & SW Sanitary Service Area (CSO 015
ULRICH CHEMICAL, INC. TECHNICAL PRODUCTS, INC. ALSO EX-				
ENTITY 3495	5303	3900 TUCKER AVE	0 0002	CSO015
NOVELIS ALUMINUM CORPORATION - LOUSVILLE PLANT		1430 S 13TH ST	No Requirement	
BROWN HOTEL THE		337 W BROADWAY		CSO022
COCA-COLA ENTERPRISES INC. LOUISVILLE REMANUFACTURING			TTO TECHNICITE	000022
CENTER	1540	1661 W HILL ST	No Data	CSO015
RUMPKE OF KENTUCKY		1101 W OAK ST		MDS (CSO 211)
PROGRESS RAIL SERVICES CORPORATION NAVAL ORDINANCE	1001	TIOT W OAK 31	No requirement	VID3 (C3O 211)
BUILDING L	7056	100 ROCHESTER DR	Zasa Diashawa	North - Dist 9 CM Control Control (000 045
LOUISVILLE WATER COMPANY CRESCENT HILL RESERVOIR &	7900	TOU ROUTESTER DR	Zero Discharge	Northern Ditch & SW Sanitary Service Area (CSO 015
GROUNDS MAINTENANCE	0004	2040 FDANKEODT AVE	LIDD	
LOUISVILLE GAS & ELECTRIC COMPANY MAIN OFFICE		3018 FRANKFORT AVE	UDR	Water Co
IVAN WARE & SON, INC.		220 W MAIN ST		CSO022
UNIVERSITY OF LOUISVILLE HEALTH SCIENCES CENTER	9458	4005 PRODUCE RD	No Requirement	Northern Ditch & SW Sanitary Service Area (CSO 015
	07	514 O EL OVO OT	, _ ,	
DEPARTMENT OF ENVIRONMENTAL HEALTH & SAFETY		511 S FLOYD ST		CSO118
AMERICAN DISPERSIONS		2815 MAGAZINE ST	No Requirement	
PINNACLE PACKAGING INC	14026	7635 NATIONAL TPKE		Northern Ditch & SW Sanitary Service Area (CSO 015
Total MGD from all 58 GDPs dischrging to CSS			2.956394	
Total MGD from 8 GDPs discharging > 0.1 MGD	<u> </u>		1.630636	55%
HOSIPTALS ARE HIGHLIGHTED	L			

TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

		<u> </u>	1	T	
FACILITY NAME	SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	AVG. USAGE	CATCHMENT/CSO NUMBER
E I DUPONT	4200 CAMP GROUND RD	OCPSF	SIU; 414 & HMPC PLAN	2,461,438	Rubbertown FM (None)
OXY VINYLS	4200 BELLS LN	OCPSF	SIU; 414 & HMPC PLAN	2,296,605	Rubbertown FM (None)
CATALYSTS CHEM CORP SUD- CHEMIE	1214 W ORMSBY AVE	OCPSF	SIU; 414 & HMPC PLAN	1,022,422	MDS (CSO 211)
GENERAL ELECTRIC	4000 BUECHEL BANK RD 4300 CAMP GROUND RD	METAL FINISHER	SIU; 433 & HMPC PLAN	952,507	Northern Ditch & SW Sanitary Service Area (CSO 015
BROWN-FORMAN CORP EARLY	4300 CAMP GROUND RD	OCPSF	SIU; 414 & HMPC PLAN	876,096	Rubbertown FM (None)
TIMES	2921 DIXIE HWY	DISTILLERY	SIU & HMPC PLAN	696,482	CSO105
SWIFT & COMPANY	1300 STORY AVE	SLAUGHTER	SIU & HMPC PLAN	516,392	MDS (CSO 211)
SOLAE LLC	2441 S FLOYD ST	WATER SOLUBLE COATINGS MANUFACTURER	SIU & HMPC PLAN	502.052	MDS (000 014)
SOLAE ELC	24413 FLOTU 31	IWANUFACTURER	SIU & HIVIPC PLAN	503,052	MDS (CSO 211)
JEWISH HOSPITAL	200 ABRAHAM FLEXNER WAY	HOSPITAL	GDP & HMPC PLAN	496,403	DTOR
FORD MOTOR CO ENGELHARD CORP	2000 FERN VALLEY RD 600 N 34TH ST	METAL FINISHER	SIU; 433 & HMPC PLAN	406,663	Northern Ditch & SW Sanitary Service Area (CSO 015
ENGELMARD CORP	1600 N 341H S1	UCPSF	SIU; 414 & HMPC PLAN	363,885	CSO022
UPS AIR DISTRICT	911 GRADE LN	PARCEL DELIVERY	SIU & HMPC PLAN	349,863	Northern Ditch & SW Sanitary Service Area (CSO 015
SUD CHEMIE SOUTH	4900 CRITTENDEN DR	METAL CATYLYST MANUFACTURER	SIU & HMPC PLAN	326,093	CSO015
BAPTIST HOSPITAL EAST	4000 KRESGE WAY	HOSPITAL	GDP & HMPC PLAN	316,625	Middle Fork Upstream of Breckenridge (various)
U OF L MEDICAL CTR	334 E MUHAMMAD ALI BLVD	HOSPITAL	SIU & HMPC PLAN	299,934	CSO118
CHURCHILL DOWNS INC	927 LONGFIELD AVE	FSE; RACE TRACK	HMPC PLAN	297,984	CSO015
ROYAL CROWN BOTTLING CO	6207 STRAWBERRY LN	SODA BOTTLER	SIU & HMPC PLAN	288,748	Northern Ditch & SW Sanitary Service Area (CSO 015
GOLDEN FOODS INC	2650 7TH STREET RD	EDIBLE OIL PRODUCTION	SIU & HMPC PLAN	282,216	CSO015
HEAVEN HILL DISTILLERIES INC	1701 W BRECKINRIDGE ST	DISTILLERY	SIU & HMPC PLAN	233,184	CSO105

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TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

ATCHMENT/CSO NUMBER ghtingale PS (CSO 015 or buth Fork CSOs)  SO130  orthern Ditch & SW Sanitary ervice Area (CSO 015 ddle Fork Upstream of eckenridge (various) DS (CSO 211)
ghtingale PS (CSO 015 or buth Fork CSOs)  SO130  orthern Ditch & SW Sanitary ervice Area (CSO 015 ddle Fork Upstream of eckenridge (various)
ghtingale PS (CSO 015 or buth Fork CSOs)  SO130  orthern Ditch & SW Sanitary ervice Area (CSO 015 ddle Fork Upstream of eckenridge (various)
outh Fork CSOs)  SO130  orthern Ditch & SW Sanitary ervice Area (CSO 015 ddle Fork Upstream of eckenridge (various)
orthern Ditch & SW Sanitary ervice Area (CSO 015 ddle Fork Upstream of eckenridge (various)
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ddle Fork Upstream of eckenridge (various)
eckenridge (various)
DS (CSO 211)
DS (CSO 211)
SO015
ghtingale PS (CSO 015 or
outh Fork CSOs)
SO105
SO015
uddy Fork (CSO 154)
SO105
ΓOR
SO117 149 179
20405
SO105
DS (CSO 211)
SO015
SO026
JUGEU
SO015

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TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

			AVG. USAGE	
SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	(GPD)	CATCHMENT/CSO NUMBER
		MSD DETERMINED THAT		
		THIS FACILITY DOES		
7601 NATIONAL TPKE	LIGHT INDUSTRIAL	NOT NEED A PERMIT	74,247	
600 BERGMAN ST	OCPSF	SIU; 414 & HMPC PLAN	74,003	CSO117 149 179
1901 PAYNE ST	FOOD PROCESSOR	SIU & HMPC PLAN	70,962	CSO140
2800 S FLOYD ST	FSE	GREASE TRAPS	64,452	MDS (CSO 211)
	FSE; ZOOLOGICAL	HMPC PLAN & GREASE		Nightingale PS (CSO 015 or
1100 TREVILIAN WAY	GARDENS	INTERCEPTORS	62,296	South Fork CSOs)
1313 ST ANTHONY PL	HOSPITAL	GDP & HMPC PLAN		CSO083
				Northern Ditch & SW Sanitary
750 GRADE LN	PARCEL DELIVERY	SIU	52.493	Service Area (CSO 015
1600 CRUMS LN	FOOD PROCESSOR	GDP & HMPC PLAN		CSO015
600 S 5TH ST	HOSPITAL	GDP & HMPC PLAN		CSO022
715 E GRAY ST	METAL FINISHER	SIU; 433 & HMPC PLAN		CSO118
				Nightingale PS (CSO 015 or
1930 BISHOP LN	TRANSFER STATION	SIU & HMPC PLAN	46.556	South Fork CSOs)
315 E BROADWAY	HOSPITAL	GDP & HMPC PLAN	45.233	CSO118
	INDUSTRIAL		,	
1400 STORY AVE	LAUNDRY	SIU & HMPC PLAN	45.068	CSO130
1125 S 12TH ST	METAL FINISHER			MDS (CSO 211)
1600 W LEE ST	REFRACTORY	· · · · · · · · · · · · · · · · · · ·		MDS (CSO 211)
4201 OLD SHEPHERDSVILLE				Southeast Diversion (CSO 015
RD	BOX MAKER	SIU & HMPC PLAN	36.630	or South Fork CSOs)
				Middle Fork Downstream of
1101 E WASHINGTON ST	FOOD PROCESSOR	GDP & HMPC PLAN	35.915	Breckenridge (CSO 020)
	INDUSTRIAL			3 (000 020)
1200 MAPLE ST	LAUNDRY	SIU & HMPC PLAN	34,748	CSO105
850 W MUHAMMAD ALI BLVD	NURSING HOME			DTOR
	OUTPATIENT;	SILVER RECOVERY UNIT	,	
225 ABRAHAM FLEXNER WAY	DOCTOR'S OFFICE	WITH CLEANOUT	32,995	DTOR
	7601 NATIONAL TPKE 600 BERGMAN ST 1901 PAYNE ST 2800 S FLOYD ST  1100 TREVILIAN WAY 1313 ST ANTHONY PL  750 GRADE LN 1600 CRUMS LN 600 S 5TH ST 715 E GRAY ST  1930 BISHOP LN 315 E BROADWAY  1400 STORY AVE 1125 S 12TH ST 1600 W LEE ST 4201 OLD SHEPHERDSVILLE RD  1101 E WASHINGTON ST 1200 MAPLE ST 850 W MUHAMMAD ALI BLVD	7601 NATIONAL TPKE 600 BERGMAN ST 1901 PAYNE ST 1901 PAYNE ST 2800 S FLOYD ST 1100 TREVILIAN WAY 1313 ST ANTHONY PL 1500 GRADE LN 1600 CRUMS LN 1600 CRUMS LN 1750 GRAY ST 175 E GRAY ST 175 E GRAY ST 175 E BROADWAY 17	MSD DETERMINED THAT THIS FACILITY DOES  7601 NATIONAL TPKE  LIGHT INDUSTRIAL  NOT NEED A PERMIT  1901 PAYNE ST  1901 PAYNE ST  2800 S FLOYD ST  FSE  GREASE TRAPS  FSE; ZOOLOGICAL GARDENS  1100 TREVILIAN WAY  FSE; ZOOLOGICAL GARDENS  1313 ST ANTHONY PL  HOSPITAL  FOOD PROCESSOR  GDP & HMPC PLAN  FOOD PROCESSOR  GDP & HMPC PLAN  FOOD PROCESSOR  GDP & HMPC PLAN  SIU  1600 CRUMS LN  FOOD PROCESSOR  GDP & HMPC PLAN  SIU & HMPC PLAN  FOOD PROCESSOR  GDP & HMPC PLAN  SIU	MSD DETERMINED THAT THIS FACILITY DOES

TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

					1
FACILITY NAME	SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	AVG. USAGE	CATCHMENT/CSO NUMBER
WYNN STARR FOODS	4820 ALLMOND AVE	FOOD PROCESSOR	SIU & HMPC PLAN	32,548	Northern Ditch & SW Sanitary Service Area (CSO 015
					Northern Ditch & SW Sanitary
IRVING MATERIALS INC	1440 SELINDA AVE	CONCRETE	HMPC PLAN	32,285	
CASA DE ORO FOODS	3701 W MAGNOLIA AVE	FOOD PROCESSOR	SIU & HMPC PLAN	31,962	Service Area (CSO 015 MDS (CSO 211)
		OUTPATIENT:	OIO & TIIVII OT LAIV	31,902	INDS (CSU 211)
COMMUNITY TREATMENT CENTER	316 E CHESTNUT ST	DOCTOR'S OFFICE	HMPC PLAN	31,901	CSO118
MOTHERS COOKIES CO	2299 RALPH AVE	FOOD PROCESSOR	GDP & HMPC PLAN	31,677	CSO015
MT LEBANON PERS CARE HM	1015 MAGAZINE ST	NURSING HOME	ODI GIRM OT DAY	30,633	DTOR
ALLIANT HEALTH SYSTEM	634 S PRESTON ST	HOSPITAL	GDP & HMPC PLAN	30,241	CSO118
	:		021 011111 01 10111	30,241	Nightingale PS (CSO 015 or
CARITAS PEACE CENTER	2020 NEWBURG RD	HOSPITAL	GDP & HMPC PLAN	28.789	South Fork CSOs)
		TOBACCO		20,700	Coddi i ok Coos)
NATIONAL TOBACCO CO LP	428 S 30TH ST	PRODUCTION	GDP & HMPC PLAN	27,293	CSO189
MOUNT HOLLY NURSING HOME	446 MT HOLLY AVE	NURSING HOME		27,238	CSO132 167
				21,200	000102 101
					Northern Ditch & SW Sanitary
SYSCO LOU FOOD SERVICES	7705 NATIONAL TPKE	FSE	HMPC PLAN	27.044	Service Area (CSO 015
		OUTPATIENT;			
U OF L KIDNEY CENTER	408 E CHESTNUT ST	DOCTOR'S OFFICE		26,644	CSO118
ALCOA ACP	3019 HALE AVE	METAL FINISHER		26,425	MDS (CSO 211)
CHALLENGER LIFTS INC	268 CABEL ST	METAL FINISHER	SIU; 433 & HMPC PLAN	26,315	DTOR
					Middle Fork Upstream of
BOWTIE CARWASH	9710 WESTPORT RD	CAR WASH	OIL WATER SEPARATOR	24.923	Breckenridge (various)
REYNOLDS METALS CO	2927 GRAND AVE	ALUMINUM FORMING		24,027	CSO105
REYNOLDS METALS CO	1401 S 12TH ST	LAMINATING		23,611	MDS (CSO 211)
KOSAIR CHILDRENS HOSP	231 E CHESTNUT ST	HOSPITAL		22,512	CSO118
AKZO COATINGS	4730 CRITTENDEN DR	OCPSF	***************************************	22,501	CSO015
KINGS DAUGHTERS&SONS HOME					
INC	1705 STEVENS AVE	NURSING HOME		22,488	CSO151
CHEVRON U S A #1293153	500 W BLOOM ST	PETROLEUM	GDP	22156	MDS (CSO 211)

TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

EAGUITY NAME				AVG. USAGE	
FACILITY NAME	SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	(GPD)	CATCHMENT/CSO NUMBER
		SALES & RENTAL OF			
MILANAIE OUDDIN OO		CATEPILLAR			
WHAYNE SUPPLY CO	1400 S 43RD ST	EQUIPMENT	GDP & HMPC PLAN	21,899	CSO200
AMERICAN PRINTING HOUSE FOR		SCHOOL (WITH			
THE BLIND	ACC OTATE OF	FORMER PRINT			
THE PLIND	165 STATE ST	SHOP)	NO PERMIT NEEDED	21,534	CSO131
CENTRAL STATE HOSPITAL	10505   A ODANOS DD	NURSING HOME;			Middle Fork Upstream of
CHAPEL HOUSE INC	10525 LA GRANGE RD	REHABILITATION		21,181	Breckenridge (various)
CHAPEL HOUSE INC	959 S 5TH ST	NURSING HOME		21,082	CSO193
LAUNDRY CONN OF IND	720 C 20TH 0T	SELF-SERVE		ļ	
LAUNDRY COMM OF IND	730 S 26TH ST	LAUNDRY		20,734	CSO015
		NETAL OATHWAY			
SUD CHEMIE WEST	1245 DUBITONII OT	METAL CATYLYST			Northern Ditch & SW Sanitary
SOD CHEMIE WEST	1315 DUMESNIL ST	MANUFACTURER	SIU & HMPC PLAN	20,266	Service Area (CSO 015
DAWN FOOD PRODUCTS INC	210 EILER AVE	FOOD DECOROOD	0111 0 1111 111 0 11 111		Northern Ditch & SW Sanitary
ALLIANT HEALTH SYSTEM	231 E CHESTNUT ST	FOOD PROCESSOR	SIU & HMPC PLAN	20,000	Service Area (CSO 015
ALLIANTILALITISTSTEW	231 E CHESTNUT ST	HOSPITAL	GDP & HMPC PLAN	19,575	CSO118
WESTMINSTER TERRACE	2116 BUECHEL BANK RD	NUBCING HOME			Southeast Diversion (CSO 015
WESTWINSTER TERRACE	2110 BUECHEL BANK RD	NURSING HOME		19,063	or South Fork CSOs)
LITTLE SISTERS OF POOR	15 AUDUBON PLAZA DR	NUBERIO LIGHE			Nightingale PS (CSO 015 or
LIQUID TRANSPORTERS INC	3710 CANE RUN RD	NURSING HOME	0111 440 0 111100 01 111	18,923	South Fork CSOs)
EIGOID TRANSI ORTERS INC	37 TO CANE RUN RD	TRANSPO CLEANING SELF-SERVE	SIU;442 & HMPC PLAN	18,205	CSO015
LAUNDRY CONN OF IND	1300 SOUTHGATE AVE	LAUNDRY		4	
	1300 300 THGATE AVE	CHEMICAL		17,515	CSO105
ZEON USA INC	4111 BELLS LN	MANUFACTURER	CUL O LINADO DI ANI	10.040	
HAZELWOOD HOSPITAL	4100 LOCUST AVE	NURSING HOME	SIU & HMPC PLAN	16,940	Rubbertown FM (None)
	THOU LOCOUT AVE	HAOVOING LIONE		16,282	CSO015
SAM MEYERS INC	3400 BASHFORD AVENUE CT	DRY CLEANER	LIMBO DI ANI	15 705	Southeast Diversion (CSO 015
ST MATTHEWS MANOR	227 BROWNS LN	NURSING HOME	HMPC PLAN	15,795	or South Fork CSOs)
OT THE VAC MENTACE	ZZI BROWNS LIV	INOVOING HOME		15,616	MDS (CSO 211)
MASONIC HOMES OF KY	3701 FRANKFORT AVE	NURSING HOME	GREASE INTERCEPTOR	15,438	CSO166
KENT FEEDS INC	937 E GRAY ST	FEED PRODUCTION	GDP & HMPC PLAN	15,145	DTC
CHRISTIAN HEALTH CENTER	927 S 5TH ST	NURSING HOME		15,123	CSO192

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TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

				I	
FACILITY NAME	SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	AVG. USAGE (GPD)	CATCHMENT/CSO NUMBER
			MSD DETERMINED THAT THIS FACILITY DOES		
			NOT NEED A PERMIT; ALL WASH WATER IS		
			RECYCLED, ONLY RINSE WATER DISCHARGED &		
TARC	1000 W BROADWAY	TRANSPORTATION	HMPC PLAN	15,019	MDS (CSO 211)
LAUNDRY CONN OF IND	4930 POPLAR LEVEL RD	SELF-SERVE LAUNDRY	·	14,932	MDS (CSO 211)
				,	Middle Fork Upstream of
MEADOWVIEW NURSING HOME	9701 WHIPPS MILL RD	NURSING HOME		14,912	Breckenridge (various)
MATER MORKS CAR MACH	0000 011 01111 05				Middle Fork Upstream of
WATER WORKS CAR WASH MASTERSONS FOOD & DRINK	8820 SALSMAN DR	CAR WASH	OIL WATER SEPARATOR		Breckenridge (various)
MASTERSONS FOOD & DRINK	1822 S 3RD ST	FSE	GREASE INTERCEPTOR	14,049	MDS (CSO 211)
LAUNDRY CONN OF IND	4007.0.4711.07	SELF-SERVE			Northern Ditch & SW Sanitary
KENTUCKIANA TANK WASH	1907 S 4TH ST 2500 7TH STREET RD	LAUNDRY		13,992	Service Area (CSO 015
RENTOCKIANA TANK WASH	2500 / IH STREET RD	TRANSPO CLEANING	SIU;442 & HMPC PLAN	13,729	CSO015
OLIVE GARDEN REST	1320 S HURSTBOURNE PKY	FSE	GREASE INTERCEPTOR	42.074	Middle Fork Upstream of
ADVANCED READY MIX CONC	161 N SHELBY ST	CONCRETE	HMPC PLAN	13,074 12,364	Breckenridge (various) DTOR
	107710772207	O TOTAL TEM	TIME OF LAW	12,304	DIOR
FRANCISCAN HLTH CRE CTR	1252 FOREST DR	NURSING HOME	GREASE INTERCEPTOR	12.345	Northern Ditch & SW Sanitary Service Area (CSO 015
WEYERHAEUSER CO	4400 PROGRESS BLVD	BOX MAKER	GDP & HMPC PLAN	12,238	Southeast Diversion (CSO 015 or South Fork CSOs)
		MEDICAL			
MED GROUP SERVICES	311 S 1ST ST	LABORATORY		11,770	CSO189
THOMAS ALITO CAD MASH	109 CHENOMETH IN	CARMAGU			Middle Fork Downstream of
THOMAS AUTO CAR WASH HENRY VOGT MACHINE CO	108 CHENOWETH LN 805 W MAGNOLIA AVE	CAR WASH	OIL WATER SEPARATOR		Breckenridge (CSO 020)
FILINIT VOGT WACHINE CO	1000 VV IVIAGNOLIA AVE	MACHINE PARTS	HMPC PLAN	11,153	MDS (CSO 211)
COLONIAL HILL MANOR	3301 COLONIAL MANOR CIR	NURSING HOME		11,115	Nightingale PS (CSO 015 or
		JACKONO HOME		11,110	South Fork CSOs)

TABLE 4-3
NONDOMESTIC DISCHARGERS IN MFWTP SERVICE AREA WITH AVERAGE LWC USAGE OF 10000 GPD OR MORE

				AVG. USAGE	
FACILITY NAME	SERVICE ADDRESS	TYPE OF BUSINESS	PERMIT STATUS	(GPD)	CATCHMENT/CSO NUMBER
		OUTPATIENT;			Middle Fork Upstream of
E P I HEALTHCARE	1705 HERR LN	DOCTOR'S OFFICE		11,090	Breckenridge (various)
		OUTPATIENT;			Middle Fork Upstream of
TEN BROECK HOSP	8521 LA GRANGE RD	DOCTOR'S OFFICE	HMPC PLAN	10,822	Breckenridge (various)
R A R TANK CLEANING REPAIR SPE	4204 ALGONQUIN PKY	TRANSPO CLEANING	SIU;442 & HMPC PLAN	10.715	CSO 015
					Nightingale PS (CSO 015 or
NAZARETH HOME	2016 NEWBURG RD	NURSING HOME	GREASE INTERCEPTOR	10,690	South Fork CSOs)
CRACKER BARREL 417	2701 CRITTENDEN DR	FSE	GREASE INTERCEPTOR	10,608	MDS (CSO 211)
		SELF-SERVE			Southeast Diversion (CSO 015
HALLS LAUNDRIES INC	3044 HUNSINGER LN	LAUNDRY		10,562	or South Fork CSOs)
MAACIC CDADIULE CAD WACLE	5004 DDECTON LUADA	CAR WAGU	0		Northern Ditch & SW Sanitary
MAGIC SPARKLE CAR WASH BROWNSBORO HILLS HEALTH	5321 PRESTON HWY	CAR WASH	OIL WATER SEPARATOR	10,479	Service Area (CSO 015
ICARE	2143 SYCAMORE AVE	NURSING HOME	CDEASE INTERCEPTOR	10 460	CSO132 167
NORFOLK SOUTHERN CORP	605 N 33RD ST	RAILROAD	GREASE INTERCEPTOR	10,466	CSO132 167
HOR OLK COOTHLINE COM	005 N 35ND 31	IVALENCAD	GDF	10,328	C30019
INTERNATIONAL PAPER (BOX U S A					Northern Ditch & SW Sanitary
INC)	3900 PRODUCE RD	BOX MAKER	GDP	10,321	Service Area (CSO 015
PRECISION TOOL DIE CO	4701 ALLMOND AVE	NONCAT METAL	HMPC PLAN	10,285	CSO015
					Nightingale PS (CSO 015 or
LANDRYS SEAFOOD KY INC	131 RIVER RD	FSE	GREASE TRAPS	10,186	South Fork CSOs)

Company Name	Address	Tributary to CSO#
ADAMS GARAGE	1620 WATHEN LN	CS0015
ADVANCE DISTRIBUTION SERVICES INC DIX	3301 DIXIE HWY	CS0015
ADVANCE DISTRIBUTION SERVICES SO. 16T	1944 S 16TH ST	CS0015
AKZO NOBEL RESINS/ LOUISVILLE RESINS/ I		CSQ015
ALGONQUIN SHELL FOOD MART	3300 ALGONQUIN PKY	CSQ015
ALLPEST CHEMICAL CO.	2114 7TH STREET RD	CSO015
ALLWASTE CONTAINER SERVICES PSC PHI	2600 MILLERS LN	CSO015
ARROW ELECTRIC	317 WABASSO AVE	CSO015
ART ETC.	2600 7TH STREET RD	CSO015
AUTO ZONE 3102 PRESTON HWY.	3102 PRESTON HWY	CSQ015
AUTO ZONE 5115 NEW CUT RD.	5115 NEW CUT RD	CSO015
AVIS RENT-A-CAR INC	4401 PARK BLVD	CSO015
BAE SYSTEMS LAND & ARMAMENTS L.P. 🗆		
	163 ROCHESTER DR	CSO015
BALL AND BALL TRUCKING, INC.	2305 RALPH AVE	CSO015
BEECHMONT BP 323 WE WOODLAWN AVE	323 W WOODLAWN AVE	CSO015
BELLSOUTH COMMUNICATIONS, INC	4600 S 2ND ST	CSO015
BELLSOUTH COMMUNICATIONS, INC. 4606 S		CSO015
BLANKENSHIP'S AUTO SERVICE	4238 LOUISVILLE AVE	CSO015
B-LINE FOOD MART 3636 CANE RUN RD.	3636 CANE RUN RD	CSO015
B-LINE JOINT VENTURE LLC	2133 DIXIE HWY	CSO015
BOWEBB CLEANERS 5213 NEW CUT RD.	5213 NEW CUT RD	CSO015
BROWN-FORMAN CORPORATION EARLY TIM		CSO015
BUDGET CAR & TRUCK RENTAL HUBER'S	4330 CRITTENDEN DR	CSO015
CARDINAL LAMINATES	230 HIAWATHA AVE	CS0015
CARITAS MEDICAL CENTER STS. MARY AND		CS0015
CHARLIE PAXTON'S 1-HOUR MARTINIZING 69	6920 SOLITHSIDE DR	CSO015
CHARLIE PAXTONS ONE HOUR CLEANERS		CSO015
CHARLIE PAXTON'S ONE HOUR MARTINIZIN		
CHURCHILL DOWNS		CSO015
CITATION EQUIPMENT & CHEMICALS	700 CENTRAL AVE	CS0015
CLARK ELECTRIC CO.	4319 CRITTENDEN DR	CSO015
COCA-COLA ENTERPRISES INC. LOUISVILLE	4157 PARK BLVD	CSO015
		CSO015
COLOR CORPORATION OF AMERICA LOUISV		CSO015
CUMMINGS INC. 328 E. SOUTHLAND BLVD. U	4//8 ALLMOND AVE	CSO015
D & D SERVICES D & D MARATHON SERVICE		CSO015
D & L TIRE & GULF SERVICE		CSO015
DANT CLAYTON		CSO015
	2701 DIXIE HWY	CSO015
DEPT. OF HIGHWAYS DISTRICT 5 OFFICE		CSO015
DERBY CITY TANK WASH, INC.		CSO015
DERBY CITY WAREHOUSING, INC. MOVED F		CSO015
DERBYTOWN IMPORTS INC		CSO015
DEXTER JONES AUTO & TRUCK SERVICE		CSO015
		CSO015
		CSO015
		CSO015
EXECUTIVE INN HOTEL (EAST) HOME SUPPL		CSO015
EXECUTIVE WEST HOTEL	830 PHILLIPS LN	CSO015
		CSO015
		CSO015
FIVE STAR FOOD MART 3901 TAYLOR BLVD.		CSO015
		CSO015
	· · · · · · · · · · · · · · · · · · ·	CSO015
		CSO015
		CSO015
	3200 PRESTON HWY	CSO015
		CSO015
GOLDEN FOODS, L.L.C. LOUISVILLE EDIBLE		CSO015
		CSO015
		CSO015
IORRELL TRUCKING	3821 FITZGERALD RD	CSO015
OUSING AUTHORITY OF LOUISVILLE CENTS		CSO015
NNER PLANT SYSTEMS, INC.	3500 BELLS LN	CSO015
NTERSTEEL FABRICATION INTERSTEEL FAE	3837 FITZGERALD RD	CSQ015
		CSO015
		CSO015
		CSO015
EFFERSON COUNTY PUBLIC SCHOOL DAW	3442 PRESTON HMV	
		CSO015
	JUU I ORII I ENDEN DK	CSO015
EFFERSON COUNTY PUBLIC SCHOOLS C.B.		
EFFERSON COUNTY PUBLIC SCHOOLS C.B. UNKIN SAFETY APPLIANCE CO INC	3121 MILLERS LN	CSO015
EFFERSON COUNTY PUBLIC SCHOOLS C.B. UNKIN SAFETY APPLIANCE CO INC EEBLER MOTHERS COOKIE COMPANY	3121 MILLERS LN 2287 RALPH AVE	CSO015
EFFERSON COUNTY PUBLIC SCHOOLS C.B. UNKIN SAFETY APPLIANCE CO INC EEBLER MOTHERS COOKIE COMPANY EEP IT SIMPLE TOWING RECOVERY, INC.	3121 MILLERS LN 2287 RALPH AVE 1400 BERNHEIM LN	CSO015 CSO015
EFFERSON COUNTY PUBLIC SCHOOLS C.B. UNKIN SAFETY APPLIANCE CO INC EEBLER MOTHERS COOKIE COMPANY EEP IT SIMPLE TOWING RECOVERY, INC. ENNETH FARMER TRUCKING, INC.	3121 MILLERS LN (2287 RALPH AVE (1400 BERNHEIM LN (2425 RALPH AVE (1400 BERNHEIM LN	CSO015

ERTITICY FAR & EXPOSITION CENTER   \$350 FREEDON WAY   \$C\$0015	Company Name	Address	Tributary to CSO#
REPTILICAY KINGDOM PARK 227-1 LIMITED   #E CIRCLE OF CHAMPIONS   C\$0015			and the state of t
LABOPATORY SUPELY COMPANY   250 OTTAWA AVE   C. SO016			
LOHENCO DISTRIBUTION LOU CHEMICAL (2330 COMMERCE CENTER PL. CS0015			
LIQUID TRANSPORTERS, INC. TRINAC TRANST TRANST TRANST TO CARE RUN RD			
LOUISVILLE WATER CO DISTRIBUTION DV 14991 ALLIMOND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  MAC'S CONVENIENCE STONE DRA DAIRY MAI 1255 WASHLAND AVE CS0015  METROPOLITAN PARKS DEFT, IROQUIDIS GC1591 RUNDILL RD CS0015  METROPOLITAN PARKS WASHDATIF POOL . 1104  METROPOLITAN PARKS WASHDATIF POOL . 1205  MILTOR GREENAND PARKS WASHDATIF POOL . 1205  MILTOR GREENAND PARKS WASHDATIF POOL . 1205  MILTOR GREENAND			
LOUISVILLEJEFFERSON COUNTY RESPECT (187) MAC'S CONVENIENCE STONE DBA DAIFY MI 425 WASHLAND AVE COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD ST COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD ST COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD ST COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD ST COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD ST COOTS MAC'S CONVENIENCE STONE DBA DAIFY MI 4201 STRD STRD STRD STRD STRD STRD STRD STRD			CSO015
MACS CONVENIENCE STORE DBA DAIFY M#1255 WASHLAND AVE MACS CONVENIENCE STORE DBA DAIFY M#1251 SER DST CS0015 MACS CONVENIENCE STORE DBA DAIFY M#1257 SER DST CS0015 MACS CONVENIENCE STORE DBA DAIFY M#1257 SER DST CS0015 MERCY ABBULANCE SERVICE MERCY DAIFY MERCY MERCY MERCY MERCY MERCY MERCY ABBULANCE SERVICE MERCY DAIFY MERCY MERC			CSO015
MACS CONVENIENCE STORE DBA DAIRY MA4701 S 3RD ST			
MACS CONVENIENCE STORE DAD ADRIY MAY 35 8TO ST MACS CONVENIENCE STORE DAD ADRIY MAY 35 8TO ST MERCY AMBULANCE SERVICE  458 HURON AVE CS0015  METROPOLITAN PARKS DEPT. IRDOUGIS CG: 1619  METROPOLITAN PARK DEPT. IRDOUGIS CG: 1619  METROPOLITAN PRS ALGORIZONIN POOL  1614 CYPRESS ST CS0015  METROPOLITAN SEWER DISTRICT CENTRAL 1590 COMMERCE CENTER PL CS0015  METROPOLITAN SEWER DISTRICT SOLITHW JOIN DELLS IN.  METROPOLITAN SEWER DISTRICT SOLITHW JOIN DELLS IN.  METROPOLITAN SEWER DISTRICT SOLITHW JOIN DELLS IN.  MILAN EXPRESS CO., INC.  202 WALRICH DR CS0015  MILON ORDER ARRIYAL SYSTEMS INC.  202 WALRICH DR CS0015  MILON ORDER ARRIYAL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER ARRIYAL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER ARRIYAL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER ARRIVAL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER ARRIVAL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  202 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  202 WALRICH DR CRAIL SYSTEMS INC.  203 WALRICH DR CS0015  MATION ORDER CRAIL SYSTEMS INC.  203 WALRICH DR CRAIL SYS			
MAC'S CONVENIENCE STORE DBA DARY MA4447 \$ 88D \$T MERCY AMBURNON'S ERVICE METROPOLITAN PARKS DEPT. IROQUOIS GC 1501 RUNDILL RD CSO015 METROPOLITAN PARKS DEPT. IROQUOIS GC 1501 RUNDILL RD CSO015 METROPOLITAN PARKS DEPT. IROQUOIS GC 1501 RUNDILL RD CSO015 METROPOLITAN PAS ALGONOLIN POOL METROPOLITAN SEWER DATE CONTINUE POOL METROPOLITAN SEWER DATE CONTINUE POOL METROPOLITAN SEWER DATE CONTINUE POOL METROPOLITAN SEWER DISTRICT SOUTHWISTON METROPOLITAN SEWER DATE CONTINUE POOL METROPOLITAN SEWER DATE POOL METROPOLITAN SEWER POOL METROPOLITAN SEWER DATE POOL METROPOLITAN SEWER DATE POOL METROPOLITAN SEWER	MAC'S CONVENIENCE STORE DBA DAIRY MA	4701 S 3RD ST	
MERCY AMBULANCE SERVICE			
METROPOLITAN PARKS DEPT. IROQUOIS CC 1501 RUNDILL RD			
METROPOLITAN PRS ALZGONQUIN POOL   1614 CYPRESS ST   CS0015			
METROPOLITAN PKS YAZELWOOD POOL			
METROPOLITAN PKS WYANDOTTE POOL			
METROPOLITAN SEWER DISTRICT SOUTH-WIDD   BELLS IN   C\$0015			
METROPOLITAN SEWER DISTRICT SOUTHWI 4010   BELLS IN   CS0015			
MILAN EXPRESS CO., INC.   2202 WARRICH DR   C\$0015	METROPOLITAN SEWER DISTRICT SOUTHW	4010 BELLS LN	
MODERN CONCRETE   2223 PALPH AVE			
NATIONAL CAR RENTAL SYSTEMS, INC.   4221 PARK BLVD   C.	MILTON GREENBAUM ASS. INC.	994 LONGFIELD AVE	CSO015
NATIONWIDE TRUCK SERVICE			CSO015
NEWLAND BODY CO			
NORTH AMERICAN GALVANIZING BOYLES GIB310 KENJOY DR   CSC015			
DXY MIYLS, LP			
PARALEL PRODUCTS OF KENTUCKY INC.   1520   BERNHEIM IN   CSO015			
PARKER'S TRUCK CARE INC			
PENDLETON TRUCK & TRAILER 3820 FITZGIS 3820 FITZGERALD RD			
PEPSI AMERICAS			
PHELIP MARDWARE			J
PHILLIP MORRIS U.S.A. STEMMERY   2249 MILLERS IN   CSO015			<u> </u>
G.S. BROOKS DISTRIBUTING OF KENTUCKY 1505 BERNHEIM IN			
QUIKRETE KENTUCKY			
RANDY'S IMPORT AUTO SALES INC   3300 COMMERCE CENTER PL   CS0015			
REGIONAL AIRPORT AUTHORITY LOUISVILLE/700 ADMINISTRATION DR	RANDY'S IMPORT AUTO SALES INC		
RICHARDS-KLEIN SHEET METAL FABRICATO   116   MILLERS LN   C\$0015			
SAMS CAR WASH 1309 BERRY BLVD.   1309 BERRY BLVD.   CS0015		2518 DIXIE HWY	CSO015
SATLO COMPANY, INC. SATCO OF KENTUCI 4815			CSO015
SENINS BODY & PAINT SHOP INC   3700 CANE RUN RD   CS0015			
SEVENTH STREET AUTO			
SHIVELY TRUCK SERVICE			
SHOREWOOD PACKAGING CORPORATION   4501   ALLMOND AVE   CS0015			
SPEEDWAY SUPERAMERICA LLC SUPERAME 4300 CRITTENDEN DR			
SPEEDWAY SUPERAMERICA LLC SUPERAME 306 W AMHERST AVE   CS0015			
SULLIVAN SCREEN PRINT CO INC   3808 FITZGERALD RD   CS0015	SPEEDWAY SUPERAMERICA LLC SUPERAME	306 W AMHERST AVE	
THORNTON OIL CO. #20, 4500 S. 3RD. ST.			
THORNTON OIL CORP #83, 1521 DIXIE HWY			
THORNTON OIL CORPORATION #60   3320   PRESTON HWY   CS0015			
THRIFTY RENT-A-CAR	THORNTON OIL CORP NO 42	4309 CRITTENDEN DR	CSO015
THRIFTY TRUCK RENTAL & MAINTENANCE   3700   CRITTENDEN DR   CS0015			CSO015
TOP CITY DRY CLEANERS   3101   PRESTON HWY   CS0015     ULRICH CHEMICAL, INC. TECHNICAL PRODU 3900   TUCKER AVE   CS0015     UNITED DISTILLERS MANUFACTURING, INC. 3860   FITZGERALD RD   CS0015     UNITED STATES POSTAL SERVICE   4772   ALLMOND AVE   CS0015     UNITED STATES POSTAL SERVICE   4772   ALLMOND AVE   CS0015     WATKINS MOTOR LINES   2402   RALPH AVE   CS0015     BGM EQUIPMENT COMPANY   LLC ZOELLER C 3649   CANE RUN RD   CS0015     BGM EQUIPMENT COMPANY   2012   NORTHWESTERN PKY   CS0019     BOONE CHEVRON FOOD MART PORTLAND   521 N 22ND ST   CS0019     CITY OF LOUISVILLE POLICE 416   N 29TH ST 416 N 29TH ST   CS0019     ENGELHARD CORPORATION HARSHAW CHE 3400   BANK ST   CS0019     ENGELHARD CORPORATION HARSHAW CHE 3400   BANK ST   CS0019     FALLON & DELMAR MOVING STORAGE 2310   2310 W MAIN ST   CS0019     JANES BROTHERS S & T HARDWARE   2527   PORTLAND AVE   CS0019     LOU & JEFFERSON CO HEALTH DEPT 2215   F2215   PORTLAND AVE   CS0019     LOU & JEFFERSON COUNTY PARKS PC 3534   PFLANZ AVE   CS0019     LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534   PFLANZ AVE   CS0019     MAC'S CONVENIENT STORE DBA DAIRY MAR 2100   PORTLAND AVE   CS0019     METROPOLITAN PKS LAPORTE POOL   2529   BANK ST   CS0019     NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST   CS0019     OVENTUCKY RENTALS   2901   PORTLAND AVE   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     COURT OR THE COURT OF			
URICH CHEMICAL, INC. TECHNICAL PRODU 3900   TUCKER AVE   CS0015     UNITED DISTIFLERS MANUFACTURING, INC.   3860   FITZGERALD RD   CS0015     UNITED STATES POSTAL SERVICE   4772   ALLMOND AVE   CS0015     VINCENT'S AUTO REPAIR   1700   BERRY BLVD   CS0015     WATKINS MOTOR LINES   2402   RALPH AVE   CS0015     ZOELLER PUMP COMPANY, LLC ZOELLER C 3649   CANE RUN RD   CS0015     BGM EQUIPMENT COMPANY   2012   NORTHWESTERN PKY   CS0019     BOONE CHEVRON FOOD MART PORTLAND   521 N 22ND ST   CS0019     CITY OF LOUISVILLE POLICE 416   N 29TH ST   416 N 29TH ST   CS0019     ENGELHARD CORPORATION HARSHAW CHE 3400   BANK ST   CS0019     FALLON & DELMAR MOVING STORAGE 2310   2310 W MAIN ST   CS0019     JANES BROTHERS S & T HARDWARE   2527   PORTLAND AVE   CS0019     KROGER FUEL L-763   S24 N 35TH ST   CS0019     LOU & JEFFERSON CO HEALTH DEPT 2215   F 2215   PORTLAND AVE   CS0019     LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534   PFLANZ AVE   CS0019     MAC'S CONVENIENT STORE DBA DAIRY MAR 2100   PORTLAND AVE   CS0019     MACTON CONVENIENT STORE DBA DAIRY MAR 2100   PORTLAND AVE   CS0019     MACTON CONVENIENT STORE DBA DAIRY MAR 2100   PORTLAND AVE   CS0019     O'KENTUCKY RENTALS   2901   PORTLAND AVE   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     QUALITY CAST BRONZE & ALUMINUM   2936   ST XAVIER ST   CS0019     CONTRACTOR CONTRACTO			
UNITED DISTILLERS MANUFACTURING, INC.         3860         FITZGERALD RD         C\$0015           UNITED STATES POSTAL SERVICE         4772         ALLMOND AVE         C\$0015           VINCENT'S AUTO REPAIR         1700         BERRY BLVD         C\$0015           WATKINS MOTOR LINES         2402         RALPH AVE         C\$0015           ZOELLER PUMP COMPANY, LLC ZOELLER C 3649         CANE RUN RD         C\$0015           BGM EQUIPMENT COMPANY         2012         NORTHWESTERN PKY         C\$0019           BOONE CHEVRON FOOD MART PORTLAND         521 N 22ND ST         C\$0019           CITY OF LOUISVILLE POLICE 416         N 29TH ST         C\$0019           ENGELHARD CORPORATION HARSHAW CHE 3400         BANK ST         C\$0019           ENGELHARD CORPORATION HARSHAW CHE 3400         BANK ST         C\$0019           FALLON & DELMAR MOVING STORAGE 2310         2310 W MAIN ST         C\$0019           JANES BROTHERS S & T HARDWARE         2527 PORTLAND AVE         C\$0019           KROGER FUEL L-763         524 N 35TH ST         C\$0019           LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215 PORTLAND AVE         C\$0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC         3534 PFLANZ AVE         C\$0019           MC'S CONVENIENT STORE DBA DAIRY MAR 2100 PORTLAND AVE         C\$0019			
UNITED STATES POSTAL SERVICE 4772 ALLMOND AVE CS0015 VINCENT'S AUTO REPAIR 1700 BERRY BLVD CS0015 WATKINS MOTOR LINES 2402 RALPH AVE CS0015 ZOELLER PUMP COMPANY, LLC ZOELLER C 3849 CANE RUN RD CS0015 BGM EQUIPMENT COMPANY 2012 NORTHWESTERN PKY CS0019 BOONE CHEVRON FOOD MART PORTLAND 521 N 22ND ST CS0019 CITY OF LOUISVILLE POLICE 416 N 29TH ST 416 N 29TH ST CS0019 ENGELHARD CORPORATION HARSHAW CHE 3400 BANK ST CS0019 FALLON & DELMAR MOVING STORAGE 2310 2310 W MAIN ST CS0019 JANES BROTHERS S & T HARDWARE 2527 PORTLAND AVE CS0019 KROGER FUEL L-763 524 N 35TH ST CS0019 LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215 PORTLAND AVE CS0019 LOU & JEFFERSON COUNTY PARKS PC 3534 PFLANZ AVE CS0019 MAC'S CONVENIENT STORE DBA DAIRY MAR 2100 PORTLAND AVE CS0019 METROPOLITAN PKS LAPORTE POOL 2529 BANK ST CS0019 NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST CS0019 O'KENTUCKY RENTALS 2901 PORTLAND AVE CS0019 QUALITY CAST BRONZE & ALUMINUM 2936 ST XAVIER ST CS0019			
VINCENT'S AUTO REPAIR         1700         BERRY BLVD         CS0015           WATKINS MOTOR LINES         2402         RALPH AVE         CS0015           ZOELLER PUMP COMPANY, LLC ZOELLER C 3649         CANE RUN RD         CS0015           BGM EQUIPMENT COMPANY         2012         NORTHWESTERN PKY         CS0019           BOONE CHEVRON FOOD MART PORTLAND         521 N 22ND ST         CS0019           CITY OF LOUISVILLE POLICE 416         N 29TH ST 416 N 29TH ST         CS0019           ENGELHARD CORPORATION HARSHAW CHE 3400         BANK ST         CS0019           FALLON & DELMAR MOVING STORAGE 2310         2310 W MAIN ST         CS0019           JANES BROTHERS S & T HARDWARE         2527         PORTLAND AVE         CS0019           KROGER FUEL L-763         524 N 35TH ST         CS0019           LOU & JEFFERSON CO HEALTH DEPT 2215         F2215         PORTLAND AVE         CS0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534         PFLANZ AVE         CS0019           MCS CONVENIENT STORE DBA DAIRY MAR 2100         PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL         2529         BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901         PORTLAND AVE			
WATKINS MOTOR LINES         2402         RALPH AVE         CS0015           ZOELLER PUMP COMPANY, LLC ZOELLER C 3649         CANE RUN RD         CS0015           BGM EQUIPMENT COMPANY         2012         NORTHWESTERN PKY         CS0019           BOONE CHEVRON FOOD MART PORTLAND 521 N 22ND ST         CS0019           CITY OF LOUISVILLE POLICE 416 N 29TH ST 416 N 29TH ST         CS0019           ENGELHARD CORPORATION HARSHAW CHE 3400         BANK ST         CS0019           FALLON & DELMAR MOVING STORAGE 2310         2310 W MAIN ST         CS0019           JANES BROTHERS S & T HARDWARE         2527         PORTLAND AVE         CS0019           KROGER FUEL L-763         524 N 35TH ST         CS0019           LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215         PORTLAND AVE         CS0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534         PFLANZ AVE         CS0019           MCS CONVENIENT STORE DBA DAIRY MAR 2100         PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL         2529         BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901         PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936         ST XAVIER ST         CS0019			
ZOELLER PUMP COMPANY, LLC ZOELLER C			
BGM EQUIPMENT COMPANY   2012   NORTHWESTERN PKY   CS0019	ZOELLER PUMP COMPANY, LLC ZOELLER CO		
BOONE CHEVRON FOOD MART PORTLAND   521 N 22ND ST   CS0019	BGM EQUIPMENT COMPANY	2012 NORTHWESTERN PKY	
CITY OF LOUISVILLE POLICE 416 N 29TH ST 416 N 29TH ST CSO019  ENGELHARD CORPORATION HARSHAW CHE 3400 BANK ST CSO019  FALLON & DELMAR MOVING STORAGE 2310 2310 W MAIN ST CSO019  JANES BROTHERS S & T HARDWARE 2527 PORTLAND AVE CSO019  KROGER FUEL L-763 524 N 35TH ST CSO019  LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215 PORTLAND AVE CSO019  LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534 PFLANZ AVE CSO019  MAC'S CONVENIENT STORE DBA DAIRY MAR 2100 PORTLAND AVE CSO019  METROPOLITAN PKS LAPORTE POOL 2529 BANK ST CSO019  NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST CSO019  O'KENTUCKY RENTALS 2901 PORTLAND AVE CSO019  QUALITY CAST BRONZE & ALUMINUM 2936 ST XAVIER ST CSO019	BOONE CHEVRON FOOD MART PORTLAND	521 N 22ND ST	
FALLON & DELMAR MOVING STORAGE 2310   2310 W MAIN ST         CS0019           JANES BROTHERS S & T HARDWARE         2527 PORTLAND AVE         CS0019           KROGER FUEL L-763         524 N 35TH ST         CS0019           LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215 PORTLAND AVE         CS0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534 PFLANZ AVE         CS0019           MAC'S CONVENIENT STORE DBA DAIRY MAR 2100 PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL 2529 BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901 PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936 ST XAVIER ST         CS0019	CITY OF LOUISVILLE POLICE 416 N 29TH ST	416 N 29TH ST	
JANES BROTHERS \$ & T HARDWARE         2527         PORTLAND AVE         CS0019           KROGER FUEL L-763         524 N 35TH ST         CS0019           LOU & JEFFERSON CO HEALTH DEPT 2215         F2215         PORTLAND AVE         CS0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534         PFLANZ AVE         CS0019           MAC'S CONVENIENT STORE DBA DAIRY MAR 2100         PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL         2529         BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901         PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936         ST XAVIER ST         CS0019			
KROGER FUEL L-763         524 N 35TH ST         CS0019           LOU & JEFFERSON CO HEALTH DEPT 2215 F 2215 PORTLAND AVE         CS0019           LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534 PFLANZ AVE         CS0019           MACTS CONVENIENT STORE DBA DAIRY MAR 2100 PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL 2529 BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901 PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936 ST XAVIER ST         CS0019			
LOU & JEFFERSON CO HEALTH DEPT 2215       F 2215       PORTLAND AVE       CS0019         LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534       PFLANZ AVE       CS0019         MAC'S CONVENIENT STORE DBA DAIRY MAR 2100       PORTLAND AVE       CS0019         METROPOLITAN PKS LAPORTE POOL       2529       BANK ST       CS0019         NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST       CS0019         O'KENTUCKY RENTALS       2901       PORTLAND AVE       CS0019         QUALITY CAST BRONZE & ALUMINUM       2936       ST XAVIER ST       CS0019			
LOUISVILLE/JEFFERSON COUNTY PARKS PC 3534         PFLANZ AVE         CS0019           MAC'S CONVENIENT STORE DBA DAIRY MAR 2100         PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL         2529         BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST         CS0019         CS0019           O'KENTUCKY RENTALS         2901         PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936         ST XAVIER ST         CS0019			
MAC'S CONVENIENT STORE DBA DAIRY MAR         2100         PORTLAND AVE         CS0019           METROPOLITAN PKS LAPORTE POOL         2529         BANK ST         CS0019           NORFOLK SOUTHERN RAILWAY COMPANY F575 N 34TH ST         CS0019           O'KENTUCKY RENTALS         2901         PORTLAND AVE         CS0019           QUALITY CAST BRONZE & ALUMINUM         2936         ST XAVIER ST         CS0019			
METROPOLITAN PKS LAPORTE POOL         2529 BANK ST         CSO019           NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST         CSO019           O'KENTUCKY RENTALS         2901 PORTLAND AVE         CSO019           QUALITY CAST BRONZE & ALUMINUM         2936 ST XAVIER ST         CSO019			
NORFOLK SOUTHERN RAILWAY COMPANY F 575 N 34TH ST         CSO019           O'KENTUCKY RENTALS         2901 PORTLAND AVE         CSO019           QUALITY CAST BRONZE & ALUMINUM         2936 ST XAVIER ST         CSO019			
O'KENTUCKY RENTALS         2901         PORTLAND AVE         CSO019           QUALITY CAST BRONZE & ALUMINUM         2936         ST XAVIER ST         CSO019			
QUALITY CAST BRONZE & ALUMINUM 2936 ST XAVIER ST CSO019			
TOUGHT IN THE PROPERTY OF THE			CSO019

Company Name	Address	Tributary to CSO#
WILLIAMS FOOD SERVICE WILLIAMS INDUS		CS0019
HUNT TRACTOR INC.	1000 E MARKET ST	CSO020
J. EDINGER & SON TRUCK AND BODY	1021 STORY AVE	CS0020
PLUMBERS SUPPLY CO	1000 E MAIN ST	CS0020
BADERS FOOD MART	300 S 1ST ST	CS0022
HYATT REGENCY OF LOUISVILLE	320 W JEFFERSON ST	CSO022
JEFF/CO BOILER PLANT BLDGS & GRDS	514 W LIBERTY ST	CSO022
JEFFERSON COUNTY ARMORY PL GARAGE	415 S 6TH ST	CSO022
LOUISVILLE WATER CO-MAIN OFFICE	550 S 3RD ST	CSO022
STARKS PARKING CENTER	430 S 3RD ST	CSO022
THRIFTY CAR & TRUCK RENTAL	456 S 2ND ST	CSO022
WHAS-TV	520 W CHESTNUT ST	CS0022
THE COURIER JOURNAL CO.	525 W BROADWAY	CS0026
AMERICAN CAR RENTAL INC	821 W BROADWAY	CSO030
HCA INFO. SYSTEMS BLDG HUMANA INFO.		CSO030
LOUISVILLE GAS & ELECTRIC COMPANY	820 W BROADWAY	CSO030
GENERAL CAR & TRUCK LEASING SYS INC.	200 S 13TH ST	CSO050
HARMON'S SERVICE CENTER	1237 W MAIN ST	CSO050
MARTIN W R COMPANY INC 1204 WE MAIN		CS0050
MERCER TRANSPORTATION COMPANY	1128 W MAIN ST	CS0050
PHOENIX BUSINESS SYSTEMS	212 S 12TH ST	CS0050
R.C. INDUSTRIES INC. R.C. RADIATOR COMP	<del></del>	CS0051
ROUCK PLUMBING CO.	930 W MAIN ST	CS0052
JEFFERSON COUNTY HALL OF JUSTICE	600 W JEFFERSON ST	CSO053 150
KENTUCKY MIRROR & PLATE GLASS CO 822 LOUISVILLE / JEFFERSON COUNTY EMERGE		CSO053 150
LOUISVILLE / JEFFERSON COUNTY EMERGE		CSO053 150 CSO053 150
LOUISVILLE POLICE DEPARTMENT	633 W JEFFERSON ST	CSO053 150
EMCOR FACILITIES SERVICES PNC PLAZA P		CSO055
HUMANA, INC.	500 W MAIN ST	CSO055
HURT PRINTING CO. 522 WE MAIN COPY BO		CSO055
FEDERAL RESERVE BANK	410 S 5TH ST	CSO056
BITTNERS	731 E MAIN ST	CSO058
GATCHELS	720 E MARKET ST	CS0058
GOLD SEAL PEST CONTROL INC	717 E MARKET ST	CSO058
GROCERS ICE & COLD STORAGE COMPANY		CSO058
HOUSING AUTHORITY OF LOUISVILLE DOSK		CSO058
PROGRESS PAINT CO. KCI COATINGS, INC.		CSO058
SERVICE WELDING & MACHINE CO INC	700 E MAIN ST	CSO058
STANDARD AUTO SHOP	1399 LEXINGTON RD	CSO080
VOLKSDOKTOR IMPORT SERVICE	1387 LEXINGTON RD	CSO080
J & M LABORATORIES, INC. 658 BARRET AVE		CS0083
KINDRED HOSPITAL-LOUISVILLE VENCOR H		CSO083
BADERS FOOD MART #2	1244 E BROADWAY	CSO084
HOUSING AUTHORITY OF JEFFERSON COUN		CSO084
ISCO INDUSTRIES, LLC 700 VINE ST.	700 VINEST	CSO084
MR TRANSMISSION BAXTER AVENUE	800 BAXTER AVE	CSO084
NATIONAL PRODUCTS COMPANY L.L.C.	900 BAXTER AVE	CSO084
RILEY JOHN AUTO SERV-GARAGE & BODY S		CSO084
ROPPEL'S AUTO SERVICE CENTER ROPPEL		CSO084
SMITH IMPORTED CAR SERVICE	1250 E BROADWAY	CSO084
BAUMER'S QUALITY AUTOMOTIVE CARE BA		CSO088
RIVER CITY AUTO CENTER	1800 BROWNSBORO RD	CSO088
HADDAD'S AUTO SERVICE HADDAD MARATI		CSO092
B-LINE FOOD MART 1648 MELLWOOD AVE.	1648 MELLWOOD AVE	CSO093
H.W. KRAUTH & SON, INC.	1612 MELLWOOD AVE	CSO093
AMERICAN DISPERSIONS	2815 MAGAZINE ST	CSO105
ANDERSON WOOD PRODUCTS	1381 BEECH ST	CSO105
AST - ACME COATINGS AND LININGS ACME-		CSO105
AST ELECTROFIN APPLIED SURFACE TECHI	·	CSO105
AUTO ZONE 2131 W. BROADWAY	2131 W BROADWAY	CSO105
B.P. OIL #25 KIEL BROS.	2701 W BROADWAY	CSO105
BELLSOUTH COMMUNICATIONS, INC. SOUTH		CSO105
BELLSOUTH COMMUNICATIONS, INC. 623 S		CSO105
B-LINE FOOD MART	931 DIXIE HWY	CSO105
B-LINE FOOD MART	3501 W BROADWAY	CSO105
B-LINE FOOD MART 1711 W BROADWAY	1711 W BROADWAY	CSO105
B-LINE FOOD MART 2532 W. BROADWAY SPE		CSO105
BOWLING JOSEPH S CO.	1421 W BRECKINRIDGE ST	CSO105
BROWN-FORMAN DISTILLERY CO. LOUISVILL		CSO105
COMPONENT FINISHING UNLIMITED	3138 DEL PARK TER	CSO105
CONNER MFG. COMPANY BLUE GRASS PIPE		CSO105
	1047 S 15TH ST	CSO105
CONSOLIDATED GRAIN & BARGE CO DARRYL'S TIRE SERVICE		CSO105

Company Name	Address	Tributary to CSO#
DOOR SERVICE CO DBA OVERHEAD DOOR		
CO OF LOUISVILLED		
0		
EL NO. A LIWO	1328 W JEFFERSON ST	CSO105
ELI'S AUTOMATIC TRANSMISSION CLINIC 604		CSO105
FALLS CITY MACHINE TECHNOLOGY HARGA		CSO105
FISHER EQUIPMENT COMPANY 2500 W MAI FLOORPRO INC	2928 GARLAND AVE	CSO105 CSO105
FREEDOM METALS, INC.	1225 S 15TH ST	CSO105
G&K SERVICES, INC.	1200 MAPLE ST	CSO105
GEOGHEGAN CORP 1405 GARLAND AVENU	-	CSO105
GREYHOUND LINES INC. GREYHOUND COR		CSQ105
	2620 W CHESTNUT ST	CSO105
HEAVEN HILL DISTILLERIES, INC. BERNHEIM	1701 W BRECKINRIDGE ST	CSO105
JELLICO CHEMICAL CO., INC.	829 S 26TH ST	CSO105
KENTUCKY PAPER BOX CO INC 823 SO 15T	823 S 15TH ST	CSO105
KROGER STORE & FUEL L-327 2710 W. BROA		CSO105
LAUYANS & COMPANY, INC.	2929 W CHESTNUT ST	CSO105
LOUISVILLE FIRE DEPARTMENT ENGINE 22 - LOUISVILLE TIN & STOVE CO 737 SO 13TH		CSO105 CSO105
ONE STEP FOOD MART PREVIOUSLY B-LINE		CSO105
PADUCAH AND LOUISVILLE RAILWAY	1221 S 15TH ST	CSO105
PERRYMAN'S FUNERAL HOME	3237 W BROADWAY	CSO105
PPG ARCHITECTURAL FINISHES, INC. PORTE		CSO105
PSC FABRICATING SHARES ADDRESS/FACII		CSO105
RELIABLE LITHOGRAPHIC	1325 W BROADWAY	CSO105
REPUBLIC INDUSTRIES, INC. REPUBLIC DIES		CSO105
REYNOLDS METALS COMPANY LOUISVILLE F		CSO105
STRY-LENKOFF CO.	1100 W BROADWAY	CSO105
SUPERIOR DIECUTTING	3025 W MADISON ST	CSO105
SYPRIS TECHNOLOGIES TUBE TURNS TECH THIRTY-FIFTH & BROADWAY CHEVRON OIL 3		CSO105
	1025 W BROADWAY	CSO105 CSO105
TRANSIT AUTHORITY OF RIVER CITY BROAD		CSO105
TRI-TECH	2612 HOWARD ST	CSO105
ZIP EXPRESS COURIER SERVICE	1234 W BROADWAY	CSO105
BRENZELS CHEVRON SERVICE JIM BRENZEI		CSO108
EASTVIEW AUTO PARTS		CSO108
HIGHLAND CLEANERS	2455 BARDSTOWN RD	CSO108
JIFFY LUBE #185 2601 BARDSTOWN ROAD BI		CSO108
LAKESIDE SWIM CLUB	2010 TREVILIAN WAY	CSO108
REECE SERVICE STATION	1632 NORRIS PL	CSO109
BLUEGRASS SURGERY & LASER CENTER LC		CSO110
SPEEDWAY SUPERAMERICA LLC SUPERAME MAC'S CONVENIENCE STORE DBA DAIRY MA		CSO110
PARROT CLEANERS 1133 ELLISON AVENUE		CSO113 CSO113
ST. MICHAEL CEMETARY	1153 CHARLES ST	CSO113
ALLIANCE LAUNDRY SYSTEMS, LLC	1133 Olifacedol	000113
331 SOUTH FIRST STREET	831 S 1ST ST	CSO117 149 179
ALLIANT HEALTH SYSTEM ALLIANT CABINET		CSO117 149 179
ANTEC-INC.		CSO117 149 179
BELL MOTOR SERVICE INC GAS & DIESEL EN	309 W KENTUCKY ST	CSO117 149 179
CENTRAL PIPING & PLUMBING, INC.		CSO117 149 179
		CSO117 149 179
EWALD SPRING & RADIATOR CO INC 225 EA		CSO117 149 179
FORTH TECHNOLOGIES, INC. BERGMAN FAC		CSO117 149 179
GRIFFIN & COMPANY, INC.		CSO117 149 179
NDUSTRIAL DISPOSAL COMPANY		CSO117 149 179 CSO117 149 179
AIDLAW TRANSIT SERVICES, INC. LAID LAV		CSO117 149 179
OUISVILLE TRANSPORTATION COMPANY Y		CSO117 149 179
AC'S CONVENIENCE STORE DBA BIG FOOT		CSO117 149 179
METROPOLITAN PKS/EA BRECKENRIDGE RE		CSO117 149 179
IORTH COAST COMMERCIAL ROOFING SYS		CSO117 149 179
ARADISE TOMATO KITCHENS		CSO117 149 179
		CSO117 149 179
RIVER CITY BODY SHOP 415 E. ST. CATHERII		CSO117 149 179
		CSO117 149 179
		CSO117 149 179
SILVERCREST DRY CLEANERS SILVERCRES		CSO117 149 179
	501 WOODBINE ST	CSO117 149 179
AMCO AUTOMATIC TRANSMISSIONS CENTI	434 E BROADWAY	CSO118 CSO118

ALLAINT HEALTH SYSTEM 224 BUILDING  AMERICAN RED CROSS LOUISVILLE CHAPTES 10 E CHESTNUT ST  CSO118  ALLAINT HEALTH SYSTEM 224 BUILDING  AMERICAN RED CROSS LOUISVILLE CHAPTES 10 E CHESTNUT ST  CSO118  BLACKHAWK ENTERPRISES INC.	Company Name	Address	Tributary to CSO#
ALLIANT HEALTH SYSTEM 224 BUILDING 224 E BROADWAY CS0118  AUTOMOTION INC. 936 E BROADWAY CS0118  BLACKHAWK ENTERPRISES INC 912 S PRESTON ST CS0118  BLACKHAWK ENTERPRISES INC 912 S PRESTON ST CS0118  BLACKHAWK ENTERPRISES INC 912 S PRESTON ST CS0118  CITY OF LOUISVILE BUILK WASTE 908 LOGAN ST CS0118  FIRESTON ST CS0118  FIRESTON ST CS0118  FIRESTON ST CS0118  GENUINE PARTS COMPANY DAS NAPA NAP 211 E COLLEGE ST CS0118  FIRESTON ST CS0118  FIRES			and the state of t
AMERICAN RED CROSS IOUISVILLE CHAPTESTO E CHESTNUT ST  CSO-118 BLACKHAWK ENTERPRISES INC.  SIZE SPREADOWY  CSO-118 BLACKHAWK ENTERPRISES INC.  SIZE SPREADOWY  CSO-118 BLACKHAWK ENTERPRISES INC.  SIZE SPREADOWY  CSO-118  CITY OF LOUISVILLE BULK WASTE  PRESTONE THE A SERVICE CENTER 401 E BROADWAY  CSO-118  CITY OF LOUISVILLE BULK WASTE  PRESTONE THE A SERVICE CENTER 401 E BROADWAY  CSO-118  CSO-119			
AUTOMOTION INC.  BALCKHAWK ENTERPRISES INC.  BILL SPRESTON ST.  CSO118  BLACKHAWK ENTERPRISES INC.  BILL SPRESTON ST.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE & SERVICE CENTER 401E. 40 E BROADWAY.  CSO118  FIRESTONE THE WORLD AND AND AND AND AND AND AND AND AND AN	AMEDICAN DED CROSS LOUISVILLE CHARTE		
BIACKHAWK ENTERPRISES INC   312 S PRESTON ST   CS0118			
CITY OF LOUISVILLE BULK WASTE			
FIRESTONE TIRE & SERVICE CENTER 401 E. BIOADWAY			
GENUINE PARTS COMPANY DBA NAPA NAPIZITE COLLEGE ST  CSD118  HERRICK ELCTRIC CORP  JEFFERSON COUNTY PUBLIC PROPERTIES (316 E CHESTNUT ST  CSD118  LABORATORY CORPORATION OF AMERICA 310 E DRIESTNUT ST  CSD118  LABORATORY CORPORATION OF AMERICA 310 E BROADWAY  CSD118  LABORATORY CORPORATION OF AMERICA 310 E BROADWAY  CSD118  LABORATORY CORPORATION OF AMERICA 310 E BROADWAY  CSD118  LOUISVILLE A LEFF CO HEALTH DEPT  400 E GRAY ST  CSD118  MULTI METALS DIVISION VERMONT AMERICA 715 E GRAY ST  CSD118  MULTI METALS DIVISION VERMONT AMERICA 715 E GRAY ST  CSD118  MULTI METALS DIVISION VERMONT AMERICA 715 E GRAY ST  CSD118  MORTON HEALTH CARE PAVILLON ALL 1885  LOGAN ST  VERNOR FOR AND STANDAY  CSD118  NORTON HEALTH CARE, NO. 210 BUILDING 210 E GRAY ST  CSD119  NORTON HEALTH CARE, NO. 210 BUILDING 210 E GRAY ST  CSD119  NORTON HEALTH CARE, NO. 210 BUILDING 210 E GRAY ST  CSD119  NORTON HEALTH CARE, NO. 210 BUILDING 210 E GRAY ST  CSD119  NORTON HEALTH CARE NO. 210 BUILDING 210 E GRAY ST  CSD119  CSCARS HARDWARE, NO. CHILDRAYS HOLD STANDAY  CSD118  ROBERTS BRAKES A AUTO SERVICE  75 S CLAY ST  CSD118  ROBERTS BRAKES A AUTO SERVICE  75 S CLAY ST  CSD118  STURGEON PEST CONTROL  10 SE BROADWAY  CSD118  UNIVERSITY PROICAL CENTER, INC. UNIVERSITY SOS S LACK ST  CSD118  UNIVERSITY PROICAL CENTER, INC. UNIVERSITY SOS S LACK ST  CSD119  UNIVERSITY PROICAL CENTER, INC. UNIVERSITY ST  CSD119  UNIVERSITY PROICAL CENTER, INC. UNIVERSITY ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  AMERICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMMERCIAL, INC. COMMERCIAL 1932 E CHESTNUT ST  CSD121  MARTICAN COMM			
HERRICK ELECTRIC CORP	GENTINE PARTS COMPANY DRA NADA MAD	211 F COLLEGE ST	
KOSAIR CHILDREN'S HOSPITAL KOSAIR CHILI231 E CHESTNUT ST		316 F CHESTNUT ST	
LABORATORY CORPORATION OF AMERICA 310 E BROADWAY			
LOUISVILLE & JEFF CO HEALTH DEPT			
LOUISVILLE AND FENDER			
MEDICAL CENTER STEAM AND CHILLED WAY 235 ABRAHAM FLEXNER WAY			
MULTI METALS DIVISION VERMONT AMERIC/T15 E GRAY ST CS0118  WY TRANSPORTATION 985 LOGAN ST CS0118  NORTON HEALTH CARE PAVILION ALLANT N315 E BROADWAY CS0118  NORTON HEALTH CARE, INC. CPI BUILDING 210 E GRAY ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGH ST LOYD ST CS0118  REPUBLIC DIESEL  100 SEARS HARMES & AUTO SERVICE T'SS S CLAY ST CS0118  REPUBLIC DIESEL  100 W BROADWAY CS0118  THORNTON OIL CORP 282  100 W BROADWAY CS0118  THORNTON OIL CORP 283  100 W BROADWAY CS0118  UNIVERSITY MEDICAL CENTER, INC. UNIVERS 30 S JACKSON ST CS0118  UNIVERSITY DE LOUISVILLE HEALTH SCIENG 11 S F LOYD ST CS0118  UNIVERSITY OF LOUISVILLE HEALTH SCIENG 11 SZ E CHESTNUT ST CS0121  ACTION GRAPHICS R21 MARKET ST CS0121  ACTION GRAPHICS R21 MARKET ST CS0121  BLATZ PAINT CO, INC. 319 S SHELBY ST			
MY TRANSPORTATION  MORTON HEALTH CARE PAVILION ALLIANY 315 E BROADWAY  SOS118  NORTON HEALTH CARE, INC. 210 BUILDING  210 E GRAY ST  CS0118  NORTON HEALTH CARE, INC. CHILDREN'S HIGO IS FLOYD ST  CS0118  SOSCAR'S HARDWARE  B82 S SHELBY ST  CS0118  ROBERTS BRAKES A AUTO SERVICE  753 SC LAY ST  GS0118  STURGEON PEST CONTROL  612 E BROADWAY  CS0118  STURGEON PEST CONTROL  1612 E BROADWAY  CS0118  THORNTON OIL CORP #28  100 W BROADWAY  CS0118  THORNTON OIL CORP #28  100 W BROADWAY  CS0118  CS0119  UNIVERSITY OF LOUISVILLE HEALTH SCIENC \$11 S FLOYD ST  CAPTION GRAPHICS  STEP STOOTH CONTROL  187 S SHELBY ST  CS0121  CAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LINIVERSITY OF LOUISVILLE HEALTH SCIENC \$11 S FLOYD ST  CS0121  CAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LINIVERSITY OF LOUISVILLE HEALTH SCIENC \$11 S FLOYD ST  CS0121  LAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LAMERICAN COMMERCIAL, INC. COMMERCIA 1052 E CHESTNUT ST  CS0121  LAMERICAN STANDAY STANDAY ST CS0121  LAMERICAN STANDAY ST CS0121  LAMERICAN STANDAY ST CS0121  LAMERICAN STANDAY ST CS0121  LAMERICAN STANDAY ST CS0121  LOUISVILLE DISPIPLAY MFG. COMPANY ST E MADISON ST  CS0121  LOUISVILLE DISPIPLAY MFG. COMPANY ST EMBISON ST  CS0122  LOUISVILLE DISPIPLAY MFG. COMPANY ST EMBISON ST  CS0123  LOUISVILLE WATER CO-GROUNDS MAINT, 35 3015 GRINSTEAD DR  CS0125  LOUISVILLE DISPIPLAY MFG. COMPANY ST EMBISON ST  CS0125  LOUISVILLE DISPIPLAY MFG. COMPANY ST EMBISON ST  CS0127  MERRICA PRINTING COMPANY, INC.  505 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  506 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  507 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  508 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  509 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  509 E LIBERTY ST  CS0127  MERRICA PRINTING COMPANY, INC.  509 E LIBERTY ST  CS0127	MULTI METALS DIVISION VERMONT AMERIC.	715 E GRAY ST	
NORTON HEALTH CARE PAVILION ALLANT N 315 E BROADWAY	MV TRANSPORTATION	958 LOGAN ST	
NORTON HEAL THCARE, INC. CHILDREN'S H(801 S FLOYD ST	NORTON HEALTH CARE PAVILION ALLIANT N	315 E BROADWAY	
GSCAR'S HARDWARE			
REPUBLIC DIESEL	NORTON HEALTHCARE, INC. CHILDREN'S HO	601 S FLOYD ST	CSO118
ROBERTS BRAKES & AUTO SERVICE	OSCAR'S HARDWARE	632 S SHELBY ST	CSO118
STURGEON PEST CONTROL			CSO118
THORNTON OIL CORP #28			
UNIVERSITY MEDICAL CENTER INC. UNIVERSOS 3 JACKSON ST			
UNIVERSITY OF LOUISVILLE HEALTH SCIENG \$11 S FLOYD ST			
ACTION GRAPHICS    821 E MARKET ST   C50121	UNIVERSITY MEDICAL CENTER, INC. UNIVER	530 S JACKSON ST	
MARRICAN COMMERCIAL, INC. COMMERCIA 1032 E CHESTNUT ST			
BLATZ PAINT CO, INC.   319 S SHELEY ST   CSO121			
EAGLE SIGN & DESIGN FORMERLY AT 312 0901 E LIBERTY ST.			
FUNERAL DIRECTORS VAULT, LTD.			
ILOUISVILLE DISPLAY MFG. COMPANY   927 E MADISON ST   CS0121			
MERRICK PRINTING COMPANY, INC.   608 E LIBERTY ST   CS0121			
CITY OF LOUISVILLE POLICE			
SOUTHERN BAPTIST SEMINARY   2825 LEXINGTON RD   C\$0125			
SOUTHERN BAPTIST SEMINARY   2825   LEXINGTON RD   C\$0125			
VOLK'S DRY CLEANING   3202 FRANKFORT AVE   CS0125   FAHEY'S AUTO SERVICE   2294 LEXINGTON RD   CS0127   GATES CHEVRON SERVICE STATION   1546 BARDSTOWN RD   CS0127   HIGHLAND AUTOMOTIVE   2036 MIDLAND AVE   CS0127   MALIBU - HIGHLAND CLEANERS   1444 BARDSTOWN RD   CS0127   VALVOLINE INSTANT OIL CHANGE 1450 BARI 1450 BARDSTOWN RD   CS0127   WEDIOLAL CENTER LAUNDRY   1400 STORY AVE   CS0130   SWIFT & COMPANY   1200 STORY AVE   CS0130   SWIFT & COMPANY   1200 STORY AVE   CS0130   WELAND CABINET CO   1320 E WASHINGTON ST   CS0130   AMERICAN PRINTING HOUSE FOR THE BLINT 1839 FRANKFORT AVE   CS0131   C.F.B. INC. SHELL FOOD MART   2912 BROWNSBORO RD   CS0132 167   CRESCENT BODY SHOP 110 S. JANE ST.   2258 FRANKFORT AVE   CS0132 167   CRESCENT BODY SHOP 110 S. JANE ST.   2258 FRANKFORT AVE   CS0132 167   CRESCENT BULL GOLF COURSE METRO PAF 3110 BROWNSBORO RD   CS0132 167   DIXIE DRY CLEANERS   2204 BROWNSBORO RD   CS0132 167   DIXIE DRY CLEANERS   2204 BROWNSBORO RD   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0132 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0142 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0142 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0142 167   METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE   CS0144   METRO PARKS MERRO RD   CS0132 167   METRO PARKS MERRO RD	SOI ITHERN PARTICE SEMINARY	2015 GRINSTEAD DR	
FAHEY'S AUTO SERVICE   2294 LEXINGTON RD   CSO127	VOLK'S DRY OF FANING	3202 EPANKEOPT AVE	
GATES CHEVRON SERVICE STATION   1546 BARDSTOWN RD   CSO127			
HIGHLAND AUTOMOTIVE	· · · · · · · · · · · · · · · · · · ·		
MALIBU - HIGHLAND CLEANERS			
VALVOLINE INSTANT OIL CHANGE 1450 BARI   1450   BARDSTOWN RD   CSO127			
MEDICAL CENTER LAUNDRY			
SWIFT & COMPANY			
WIELAND CABINET CO         1320 E WASHINGTON ST         CSO130           AMERICAN PRINTING HOUSE FOR THE BLINI 1839 FRANKFORT AVE         CSO131         CC.F.B. INC. SHELL FOOD MART         2912 BROWNSBORO RD         CSO132 167           CRESCENT BODY SHOP 110 S. JANE ST.         2258 FRANKFORT AVE         CSO132 167           CRESCENT HILL GOLF COURSE METRO PAF 3110 BROWNSBORO RD         CSO132 167           DIXIE DRY CLEANERS         2204 BROWNSBORO RD         CSO132 167           LOUISVILLE FIRE DEPARTMENT ENGINE 4/ T 2620 FRANKFORT AVE         CSO132 167           METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE         CSO132 167           READY ELECTRIC CO INC         2030 FRANKFORT AVE         CSO132 167           SPEEDWAY #8132         2300 BROWNSBORO RD         CSO132 167           THORNTON OIL CORP #27         2007 BROWNSBORO RD         CSO132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CSO140           LOUISVILLE PAVING         1801 PAYNE ST         CSO140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CSO141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CSO146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CSO146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CSO146           CENTRAL CONS			
C.F.B. INC. SHELL FOOD MART  CRESCENT BODY SHOP 110 S. JANE ST.  2258 FRANKFORT AVE  CSO132 167  CRESCENT HILL GOLF COURSE METRO PAF 3110  DIXIE DRY CLEANERS  2204 BROWNSBORO RD  CSO132 167  DIXIE DRY CLEANERS  2204 BROWNSBORO RD  CSO132 167  LOUISVILLE FIRE DEPARTMENT ENGINE 4/ T 2620 FRANKFORT AVE  CSO132 167  METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE  CSO132 167  METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE  CSO132 167  READY ELECTRIC CO INC  2030 FRANKFORT AVE  CSO132 167  SPEEDWAY #8132  2300 BROWNSBORO RD  CSO132 167  D. D. WILLIAMSON & COMPANY  1901 PAYNE ST  CSO140  LOUISVILLE PAVING  1801 PAYNE ST  CSO140  NETWORK PRINTING, INC.  1500 ARLINGTON AVE  CSO141  A & B ABELL ELEVATOR INC CO  1256 LOGAN ST  CSO146  AXTON CANDY-TOBACCO CO  900 E KENTUCKY ST  CSO146  CENTRAL CONSTRUCTION  1020 LOGAN ST  CSO146		1320 E WASHINGTON ST	
CRESCENT BODY SHOP 110 S. JANE ST.         2258 FRANKFORT AVE         CS0132 167           CRESCENT HILL GOLF COURSE METRO PAF 3110 BROWNSBORD RD         CS0132 167           DIXIE DRY CLEANERS         2204 BROWNSBORD RD         CS0132 167           LOUISVILLE FIRE DEPARTMENT ENGINE 4/T 2620 FRANKFORT AVE         CS0132 167           METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE         CS0132 167           READY ELECTRIC CO INC         2030 FRANKFORT AVE         CS0132 167           SPEEDWAY #8132         2300 BROWNSBORD RD         CS0132 167           THORNTON OIL CORP #27         2007 BROWNSBORD RD         CS0132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CS0140           LOUISVILLE PAVING         1801 PAYNE ST         CS0140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CS0140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CS0140           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CS0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           CENT			CSO131
CRESCENT HILL GOLF COURSE METRO PAF 3110         BROWNSBORO RD         CS0132 167           DIXIE DRY CLEANERS         2204         BROWNSBORO RD         CS0132 167           LOUISVILLE FIRE DEPARTMENT ENGINE 4/T 2620         FRANKFORT AVE         CS0132 167           METRO PARKS MARY T. MEAGHER NATATOF 201         RESERVOIR AVE         CS0132 167           READY ELECTRIC CO INC         2030         FRANKFORT AVE         CS0132 167           SPEEDWAY #8132         2300         BROWNSBORO RD         CS0132 167           THORNTON OIL CORP #27         2007         BROWNSBORO RD         CS0132 167           D. D. WILLIAMSON & COMPANY         1901         PAYNE ST         CS0140           LOUISVILLE PAVING         1801         PAYNE ST         CS0140           NETWORK PRINTING, INC.         1500         ARLINGTON AVE         CS0140           ACME AUTO ELECTRIC INC         508         BAXTER AVE         CS0140           A & B ABELL ELEVATOR INC CO         1256         LOGAN ST         CS0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           CENTRAL CONSTRUCTION         1020         LOGAN ST         CS0146           CENTRAL CONSTRUCTION         1020         LOGAN ST         CS0146           CENTRAL CONSTRUCTION	C.F.B. INC. SHELL FOOD MART 2	2912 BROWNSBORO RD	CSO132 167
DIXIE DRY CLEANERS   2204 BROWNSBORO RD   CS0132 167			CSO132 167
LOUISVILLE FIRE DEPARTMENT ENGINE 4/ T 2620 FRANKFORT AVE         CSO132 167           METRO PARKS MARY T. MEAGHER NATATOF 201 RESERVOIR AVE         CSO132 167           READY ELECTRIC CO INC         2030 FRANKFORT AVE         CSO132 167           SPEEDWAY #8132         2300 BROWNSBORO RD         CSO132 167           THORNTON OIL CORP #27         2007 BROWNSBORO RD         CSO132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CSO140           LOUISVILLE PAVING         1801 PAYNE ST         CSO140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CSO140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CSO141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CSO146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CSO146           C & J J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CSO146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CSO146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CSO146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146		3110 BROWNSBORO RD	CSO132 167
METRO PARKS MARY T. MEAGHER NATATOF 201         RESERVOIR AVE         C\$O132 167           READY ELECTRIC CO INC         2030         FRANKFORT AVE         C\$O132 167           SPEEDWAY #8132         2300         BROWNSBORO RD         C\$O132 167           THORNTON OIL CORP #27         2007         BROWNSBORO RD         C\$O132 167           D. D. WILLIAMSON & COMPANY         1901         PAYNE ST         C\$O140           LOUISVILLE PAVING         1801         PAYNE ST         C\$O140           NETWORK PRINTING, INC.         1500         ARLINGTON AVE         C\$O140           ACME AUTO ELECTRIC INC         508         BAXTER AVE         C\$O141           A & B ABELL ELEVATOR INC CO         1256         LOGAN ST         C\$O146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         C\$O146           C S J JAUTO SHELBY STREET MOTORS         1501 S SHELBY ST         C\$O146           CENTRAL CONSTRUCTION         1020         LOGAN ST         C\$O146           CENTRAL CONSTRUCTION         1020         LOGAN ST         C\$O146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         C\$O146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         C\$O146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         C\$O14			CSO132 167
READY ELECTRIC CO INC         2030 FRANKFORT AVE         C\$0132 167           SPEEDWAY #8132         2300 BROWNSBOR ORD         C\$0132 167           THORNTON OIL CORP #27         2007 BROWNSBOR ORD         C\$0132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         C\$0140           LOUISVILLE PAVING         1801 PAYNE ST         C\$0140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         C\$0140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         C\$0141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         C\$0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         C\$0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         C\$0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         C\$0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         C\$0146           GERMANTOWN MARATHON SEI 1137 E BURNETT AVE         C\$0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         C\$0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         C\$0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         C\$0146			CSO132 167
SPEEDWAY #8132         2300 BROWNSBORO RD         CSC132 167           THORNTON OIL CORP #27         2007 BROWNSBORO RD         CSO132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CSO140           LOUISVILLE PAVING         1801 PAYNE ST         CSO140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CSO140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CSO141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CSO146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CSO146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CSO146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CSO146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CSO146           GERMANTOWN MARATHON MARATHON SEI 1137 E BURNETT AVE         CSO146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CSO146			
THORNTON OIL CORP #27         2007 BROWNSBORO RD         CS0132 167           D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CS0140           LOUISVILLE PAVING         1801 PAYNE ST         CS0140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CS0140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CS0141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CS0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           GERMANTOWN MARATHON MARATHON SEI 117 E BURNETT AVE         CS0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CS0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CS0146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CS0146			
D. D. WILLIAMSON & COMPANY         1901 PAYNE ST         CS0140           LOUISVILLE PAVING         1801 PAYNE ST         CS0140           NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CS0140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CS0141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CS0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           GERMANTOWN MARATHON MARATHON SE 1137 E BURNETT AVE         CS0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CS0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CS0146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CS0146			
LOUISVILLE PAVING         1801         PAYNE ST         CSO140           NETWORK PRINTING, INC.         1500         ARLINGTON AVE         CSO140           ACME AUTO ELECTRIC INC         508         BAXTER AVE         CSO141           A & B ABELL ELEVATOR INC CO         1256         LOGAN ST         CSO146           AXTON CANDY-TOBACCO CO         900         E KENTUCKY ST         CSO146           C & J AUTO SHELBY STREET MOTORS         1501         S SHELBY ST         CSO146           CENTRAL CONSTRUCTION         1020         LOGAN ST         CSO146           GERMANTOWN MARATHON MARATHON SEI 1137         E BURNETT AVE         CSO146           KNOCK'S AUTOMOTIVE         1268         S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515         S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707         PRESTON HWY         CSO146			
NETWORK PRINTING, INC.         1500 ARLINGTON AVE         CS0140           ACME AUTO ELECTRIC INC         508 BAXTER AVE         CS0141           A & B ABELL ELEVATOR INC CO         1256 LOGAN ST         CS0146           AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           GERMANTOWN MARATHON MARATHON SEI 1137 E BURNETT AVE         CS0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CS0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CS0146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CS0146			
ACME AUTO ELECTRIC INC 508 BAXTER AVE CSO141  A & B ABELL ELEVATOR INC CO 1256 LOGAN ST CSO146  AXTON CANDY-TOBACCO CO 900 E KENTUCKY ST CSO146  C & J AUTO SHELBY STREET MOTORS 1501 S SHELBY ST CSO146  CENTRAL CONSTRUCTION 1020 LOGAN ST CSO146  GERMANTOWN MARATHON MARATHON SEI 1137 E BURNETT AVE CSO146  KNOCK'S AUTOMOTIVE 1268 S SHELBY ST CSO146  OSCAR'S GERMANTOWN HARDWARE 1515 S SHELBY ST CSO146  PARROT-BROCK CLEANERS 2707 PRESTON HWY CSO146			
A & B ABELL ELEVATOR INC CO       1256 LOGAN ST       CSO146         AXTON CANDY-TOBACCO CO       900 E KENTUCKY ST       CSO146         C & J AUTO SHELBY STREET MOTORS       1501 S SHELBY ST       CSO146         CENTRAL CONSTRUCTION       1020 LOGAN ST       CSO146         GERMANTOWN MARATHON MARATHON SEI 1137 E BURNETT AVE       CSO146         KNOCK'S AUTOMOTIVE       1268 S SHELBY ST       CSO146         OSCAR'S GERMANTOWN HARDWARE       1515 S SHELBY ST       CSO146         PARROT-BROCK CLEANERS       2707 PRESTON HWY       CSO146			
AXTON CANDY-TOBACCO CO         900 E KENTUCKY ST         CS0146           C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           GERMANTOWN MARATHON MARATHON SEL 1137 E BURNETT AVE         CS0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CS0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CS0146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CS0146			
C & J AUTO SHELBY STREET MOTORS         1501 S SHELBY ST         CS0146           CENTRAL CONSTRUCTION         1020 LOGAN ST         CS0146           GERMANTOWN MARATHON MARATHON SE 1137 E BURNETT AVE         CS0146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CS0146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CS0146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CS0146			
CENTRAL CONSTRUCTION         1020         LOGAN ST         CSO146           GERMANTOWN MARATHON MARATHON SEI 1137 E BURNETT AVE         CSO146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CSO146			
GERMANTOWN MARATHON MARATHON SE 1137 E BURNETT AVE         CSO146           KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CSO146			
KNOCK'S AUTOMOTIVE         1268 S SHELBY ST         CSO146           OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CSO146			
OSCAR'S GERMANTOWN HARDWARE         1515 S SHELBY ST         CSO146           PARROT-BROCK CLEANERS         2707 PRESTON HWY         CSO146			
PARROT-BROCK CLEANERS 2707 PRESTON HWY CSO146			
PRECISION AN ELAMEX USA CO. PRECISION 1458 S SHELBY ST CSO146			
SHORT'S ARAB TERMITE & PEST CONTROL   1234 BOYLE ST CSO146			
SHUFFIT'S MOBIL, INC. 2313 S. PRESTON ST. 2313 S PRESTON ST CSO146			
KEITH'S HARDWARE 1201 BARDSTOWN RD CSO152	(EITH'S HARDWARE 1	201 BARDSTOWN RD	
LOUISVILLE FIRE DEPARTMENT ENGINE 11 / 1025 RUBEL AVE CSO152	OUISVILLE FIRE DEPARTMENT ENGINE 11 / 1	025 RUBELAVE	
MELTON B.P.OIL INC. 1221 BAXTER AVENUE 1221 BAXTER AVE CSO152	MELTON B.P.OIL INC. 1221 BAXTER AVENUE 1	221 BAXTER AVE	
SPEEDWAY SUPERAMERICA LLC SUPERAME 1101 BARDSTOWN RD CSO152			CSO152
SPEIER ACE HARDWARE 992 BARRET AVE CSO152	PEIER ACE HARDWARE 9	92 BARRET AVE	CSO152

	Table Of EARS WITHIN MIT WIT SER	
Company Name	Address	Tributary to CSO#
ADKINS CONSTRUCTION CO CHAMPION ROLLER - KENTUCKY PLANT	1301 PORTLAND AVE	CSO155
REYNOLDS INC. MOVED FROM #9394	1200 ROWAN ST 1301 W MAIN ST	CS0155
SCHMUTZ TECHNOLOGY 1200 ROWAN ST. H	1200 ROWAN ST	CSO155 CSO155
BALLOU'S RENT-ALL INC	3230 FRANKFORT AVE	CSO166
BELLSOUTH COMMUNICATIONS, INC. 111 BA	A111 BALIER AVE	CSO166
BIG O TIRE STORES 3623 LEXINGTON ROAD	3623 LEXINGTON RD	CSO166
BOONE'S FOOD MART	3320 FRANKFORT AVE	CSO166
HEUSTIS SERVICE CENTER HEUSTIS GENE JAGUAR OF LOUISVILLE		CSO166
PRUITT'S CHEVRON SERVICE NO. 1 3795 LEX	3700 FRANKFORT AVE	CSO166
URSULINE SOCIETY & ACADEMY OF ED.	3105 LEXINGTON RD	CSO166 CSO166
VALVOLINE INSTANT OIL CHANGE 3800 LEXII	3800 LEXINGTON RD	CSO166
BLOEMER FOOD SALES	925 S 7TH ST	CSO178
C. LEE COOK DIVISION OF DOVER CORPOR		CSO178
HESCO PARTS LLC	990 S 9TH ST	CSO178
NEW AUTO PROCESSING, INC. 939 S. NINTH OLSON / BECKER'S AUTO SERVICE BECKER	721 W RRECKINDIDGE ST	CSO178
B-LINE FOOD MART 3320 W MARKET ST.	3320 W MARKET ST	CSO178 CSO189
BUSH-KREBS COMPANY	220 S 18TH ST	CSO189
CAMBRON EUGENE B PAINTERS AND DECO	4143 W MARKET ST	CSO189
D & B ROOFING	1819 W MAIN ST	CSO189
F & Y FOOD MART FORMERLY FIVE STAR FO		CSO189
K & F GROCERY #2 LOUISVILLE - JEFFERSON CO. METRO PARK	4100 W MUHAMMAD ALI BLVD	CSO189
LOUISVILLE - JEFFERSON CO. METRO PARKS LOUISVILLE LABEL INC 417 SO 32ND STREE	417 S 32ND ST	CSO189
LOUISVILLE/JEFFERSON COUNTY PARKS 22	2124 W MARKET ST	CSO189   CSO189
MAC'S CONVENIENCE STORE DBA DAIRY MA	2728 W MARKET ST	CSO189
MIDWEST ENVIRONMENTAL SERVICES, INC.	3601 PARKER AVE	CSO189
NATIONAL TOBACCO COMPANY LORILLARD	3029 W MUHAMMAD ALI BLVD	CSO189
STOLL CONSTRUCTION & PAVING CO. 3100	3100 HERMAN ST	CSO189
TWINS HARDWARE AGI MEDIA PACKAGING COMMERCIAL LITHO	3317 W MARKET ST	CSO189
CITY OF LOUISVILLE OPEN SPACES MANAGE	1731 NORTHWESTERN DICK	CSO190
		CSO190 CSO190
GLENN'S PAINT CENTER	1801 W MARKET ST	CSO190
INDUSTRIAL POWER SERVICE COMPANY, IN	1510 W MAIN ST	CSO190
LANNING AUTO SERVICE 1716 PORTLAND A	1716 PORTLAND AVE	CSO190
NIEMCO FABRICATORS, INC. NIEMCO INDUS POTTS MELVIN & SON SCREEN PRINTING		CSO190
		CSO190
CENTRAL TRANSPORT		CSO191 CSO191
CHAZ CONCRETE CO.	4121 ALGONQUIN PKY	CSO191
HEIL TRAILER INTERNATIONAL	3808 BELLS LN	CSO191
R.A.R. TANK CLEANING & REPAIR SPECIALIS	4107 BELLS LN	CSO191
		CSO193
BELLSOUTH COMMUNICATIONS, INC. 2404 B. CONN'S BODY SHOP 2247 BARDSTOWN RD.		CSO206
K'S FOOD MART SAVE-A-STEP	1779 BARDSTOWN RD	CSO206 CSO206
LEE FARAHS DRY CLEANER 1985 DOUGLAS		CSO206
STRIP-EASE OF LOUISVILLE	2003 WOODBOURNE AVE	CSO206
ARCH L. HEADY & SON FUNERAL DIRECTOR	1201 E OAK ST [	DTC
DAGES PAINT CO.	1140 E OAK ST	DTC
ISCO INDUSTRIES, LLC 962 E. CHESTNUT ST		DTC
		DTC
		DTOR
BELLSOUTH COMMUNICATIONS, INC. 526 AR 5	526 ARMORY PL [	DTOR
BELLSOUTH TELECOMMUNICATIONS INC. S.	601 W CHESTNUT ST	DTOR
CECIL'S SERVICE CENTER 4	447 S 8TH ST [	DTOR
		DTOR
CITY BLUE PRINT CO 1 CULINARY STANDARDS CORP. STANDARD F1		DTOR
		DTOR DTOR
GREYHOUND BUS LINES 720 WE MUHAMMA 7	720 W MUHAMMAD ALI BLVD	DTOR
HOUSING AUTHORITY OF LOUISVILLE AVENUA		DTOR
HUMANA INC WATERSIDE BLDG 1	110 W MAIN ST E	DTOR
INDUSTRIAL AIR CENTER 1	118 S 1ST ST C	OTOR
JAGS AUTOMOTIVE 430 S. 1ST ST. MIDAS AU 4		DTOR
JEWISH HOSPITAL HEALTHCARE SERVICES 2 LOUISVILLE - JEFFERSON CO. METRO PARK: 1	130 W CHESTNUT ST	OTOR OTOR
LOUISVILLE FIRE DEPARTMENT ENGINE 2/ TIT	135 W JEFFERSON ST	DTOR DTOR
M B OIL COMPANY, INC. KP OIL 2		DTOR
MARSHALL'S AUTO PARTS INC 3	375 ADAMS ST	DTOR
MURPHY THE ELEVATOR CO INC 1	28 E MAIN ST	OTOR
NORTON HOSPITAL NORTON HOSPITAL 2		DTOR

Company Name	Address	Tributary to CSO#
PIERSON TRANSMISSION SERVICE 156 NO		DTOR
POWER TRAIN SERVICE OF KY	701 E MAIN ST	DTOR
RELIABLE EXPRESS INC	1101 STORY AVE	DTOR
RUEFF SIGN CO.	1530 E WASHINGTON ST	DTOR
SERVICE WELDING & MACHINE CO. WAREHO		DTOR
SWH SUPPLY COMPANY INC	242 E MAIN ST	DTOR
TASMAN INDUSTRIES	930 GEIGER ST	DTOR
VENDOME COPPER & BRASS WORKS	729 FRANKLIN ST	DTOR
CENTRAL AMERICAN AIRWAYS	2805 TAYLORSVILLE RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
COLONEL QUICK	3333 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
FEDERAL AVIATION ADMINISTRATION BOWN		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
GARDINER LANE CLEANERS DIXIE DRY CLE		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
GRISSOM AUTO CARE	3337 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
HOUCHIN'S AUTO SPECIALITIES INC	3337 TAYLORSVILLE RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
JAGS AUTOMOTIVE 3325 BARDSTOWN ROA	3325 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
JEWISH COMMUNITY CENTER	3600 DUTCHMANS LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
LOUISVILLE FIRE DEPARTMENT QUINT 10 - 3		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
REGIONAL AIRPORT AUTHORITY BOWMAN F		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
RESCO RENTS	3485 ROGER E SCHUPP ST	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
SPEEDWAY SUPERAMERICA LLC SUPERAME		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
STEIN AUTOMOTIVE BOWMAN FIELD	2816 TAYLORSVILLE RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
THORNTON OIL CORP #25	3301 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
THORNTON QUICK CAFE & MARKET THORT(		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
A.P. FOOD MART	2631 S 3RD ST	MDS (CSO 211)
ALCOA FLEXIBLE PACKAGING LOUISVILLE LA		MDS (CSO 211)
ALLIED DRUM SERVICE, INC.	401 COLORADO AVE	MDS (CSO 211)
ALRO STEEL CORP	310 BOXLEY AVE	MDS (CSO 211)
AMERICAN BLUEGRASS MARBLE	1510 ALGONQUIN PKY	MDS (CSO 211)
BELL SOUTH COMMUNICATIONS, INC. 1616 (		MDS (CSO 211)
B-LINE FOOD MART 1420 DIXIE HWY.	1420 DIXIE HWY	MDS (CSO 211)
B-LINE FOOD MART 3291 TAYLOR BLVD.	3291 TAYLOR BLVD	MDS (CSO 211)
B-LINE FOOD MART 700 W. OAK ST. SPEEDW		MDS (CSO 211)
	826 S 8TH ST	MDS (CSO 211)
	728 S 4TH ST	MDS (CSO 211)
BUSTER'S TRANSMISSION SERVICE	1223 S 7TH ST	MDS (CSO 211)
CASA DE ORO FOODS MESA FOODS	3701 W MAGNOLIA AVE	MDS (CSO 211)
	2931 S FLOYD ST	MDS (CSO 211)
CHEVRONTEXACO GLOBAL LUBRICANTS LO		MDS (CSO 211)
		MDS (CSO 211)
CORHART REFRACTORIES CORPORATION		MDS (CSO 211)
COURTAULDS COATINGS DISTRIBUTION CEI DIVERSIFIED DESIGNS		MDS (CSO 211)
DOWNTOWN FORD INC 809 S 5TH STREET		MDS (CSO 211)
EARTHGRAINS CO. DIVISION OF SARA LEE R		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211) MDS (CSO 211)
		MDS (CSO 211)
GENERAL WELDING PRODUCTS 2603 S FLO		MDS (CSO 211) MDS (CSO 211)
GOLD PROOF ELEVATOR 1340 WE ORMSBY		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
HOUSING AUTHORITY OF LOUISVILLE ST. CA		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
INDUSTRIAL EQUIPMENT CO, IND, OXYGEN A		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
KELLEY TECHNICAL COATINGS, INC. PLANT		MDS (CSO 211)
KELLEY TECHNICAL COATINGS, INC. PLANT		MDS (CSO 211)
		MDS (CSO 211)
KENTUCKY TRAILER, R.C. TWAY COMPANY,		MDS (CSO 211)
KENTUCKY-INDIANA LUMBER CO 227 EA LEI		MDS (CSO 211)
KIRK & BLUM MFG CO-LIBERTY ENG DIV 1450		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
KY NATIONAL GUARD ORGANIZATIONAL MAI		MDS (CSO 211)
		MDS (CSO 211)
LOMA AUTOMATED TECHNOLOGOIES, INC. I		MDS (CSO 211)
LOUISVILLE FIRE DEPARTMENT ENGINE 16/		MDS (CSO 211)
LOUISVILLE FREEZER CENTER DBA AMERIC		MDS (CSO 211)
		MDS (CSO 211)
LOUISVILLE MAINTENANCE SUPPLY & INC 10		MDS (CSO 211)
LOUISVILLE/JEFFERSON COUNTY PARKS CE		MDS (CSO 211)
		MDS (CSO 211)

Company Name	Address	Tributary to CSO#
MAC'S CONVENIENCE STORE DBA BIG FOO' METROPOLITAN PKS SHELBY POOL		MDS (CSO 211) MDS (CSO 211)
MILLS SUPPLY COMPANY COMPANY, INC.	604 W OAK ST 1100 S 9TH ST	
NEILL-LAVIELLE SUPPLY CO., INC. INDUSTRI	1711 C ELOVO CT	MDS (CSO 211) MDS (CSO 211)
INELCO. INC.	1045 S 12TH ST	
NOVELIS ALUMINUM CORPORATION - LOUS		MDS (CSO 211) MDS (CSO 211)
PACKAGING UNLIMITED INC.	1121 W KENTUCKY ST	MDS (CSO 211)
PETTIT ENVIRONMENTAL, INC.	340 BYRNE AVE	MDS (CSO 211)
PRACTICAL MECHANICS INC	1809 COMMERCE RD	MDS (CSO 211)
PRECISION METAL PROCESSORS	1000 W ORMSBY AVE	MDS (CSO 211)
QUALITY DRY CLEANERS	1312 DIXIE HWY	MDS (CSO 211)
RAMCO LEASING	3212 WOODLAND AVE	MDS (CSO 211)
ROYAL LACE	1120 W MAGNOLIA AVE	MDS (CSO 211)
S & S PORCELAIN METALS LLC	1400 S 13TH ST	MDS (CSO 211)
SAM'S KWIK MART 1480 S. 7TH ST. ONE STE		MDS (CSO 211)
SCHEU & KNISS, INC	1500 W ORMSBY AVE	MDS (CSO 211)
SCHULER MACHINE & TOOL CO. 902 W. HILI	1500 S 10TH ST	MDS (CSO 211)
SOLAE L.L.C. DUPONT SOY POLYMERS PTI,		MDS (CSO 211)
SOUTHERN GRAPHIC SYSTEMS, INC. 2823 S		MDS (CSO 211)
SPEEDWAY SUPERAMERICA LLC SUPERAM	3030 TAYLOR BLVD	MDS (CSO 211)
SPEEDY MART 401 WINKLER AVE. BP OIL CO		MDS (CSO 211)
SUD-CHEMIE INC. LABORATORIES UNITED C	1600 W HILL ST	MDS (CSO 211)
SUD-CHEMIE INC. WEST PLANT WEST CATA	1227 S 12TH ST	MDS (CSO 211)
TABLER COMPANY	1331 S 15TH ST	MDS (CSO 211)
THIRTY-SECOND & GARLAND AUTO SVC CTI	910 S 32ND ST	MDS (CSO 211)
TRANSIT AUTHORITY OF RIVER CITY UNION		MDS (CSO 211)
TRI-STATE PLATING, INC.	1125 QUALITY CHOICE PL	MDS (CSO 211)
UNIVERSAL LINEN SERVICE	1803 COMMERCE RD	MDS (CSO 211)
UNIVERSITY OF LOUISVILLE BELKNAP CAMP	1800 ARTHUR ST	MDS (CSO 211)
VOGT TUBE ICE	1000 W ORMSBY AVE	MDS (CSO 211)
VOGT VALVE COMPANY	901 W MAGNOLIA AVE	MDS (CSO 211)
WELDERS SUPPLY CO. OF LOU.	335 BOXLEY AVE	MDS (CSO 211)
WEST ROOFING & SUPPLY CO INC	620 INDUSTRY RD	MDS (CSO 211)
WHAYNE SUPPLY COMPANY	1400 CECIL AVE	MDS (CSO 211)
WHIP-MIX CORP	361 FARMINGTON AVE	MDS (CSO 211)
WINN-DIXIE LOGISTICS	720 LOCUST LN	MDS (CSO 211)
YELLOW FREIGHT SYSTEM INC	1400 S 34TH ST	MDS (CSO 211)
ZELLER'S HARDWARE STORE	1452 DIXIE HWY	MDS (CSO 211)
ZEOCHEM	1314 S 12TH ST	MDS (CSO 211)
BIG SPRING COUNTRY CLUB	5901 DUTCHMANS LN	Middle Fork Downstream of Breckenridge (CSO 020)
C & T TRANSMISSION CENTER	3950 WESTPORT RD	Middle Fork Downstream of Breckenridge (CSO 020)
CAVE HILL CEMETERY	701 BAXTER AVE	Middle Fork Downstream of Breckenridge (CSO 020)
CITY OF LOUISVILLE STREET REPAIR	1450 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
	1450 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
COTTMAN TRANSMISSION 3949 SHELBYVILL		Middle Fork Downstream of Breckenridge (CSO 020)
ELITE CLEANERS	137 N SHERRIN AVE	Middle Fork Downstream of Breckenridge (CSO 020)
HENDRIX JIM SERVICE CENTER	145 ST MATTHEWS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
HUBBARDS LANE CHEVRON	296 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
JAGS AUTOMOTIVE MIDAS AUTO SYSTEMS		Middle Fork Downstream of Breckenridge (CSO 020)
JIFFY LUBE INTERNATIONAL, INC. #846 4180		Middle Fork Downstream of Breckenridge (CSO 020)
	2700 GAST BLVD	Middle Fork Downstream of Breckenridge (CSO 020)
LOUISVILLE/JEFFERSON COUNTY PARKS CH		Middle Fork Downstream of Breckenridge (CSO 020)
MAC'S CONVENIENCE STORE DBA BIG FOOT		Middle Fork Downstream of Breckenridge (CSO 020)
METROPOLITAN PKS BRESLIN POOL	1388 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
METROPOLITAN PKS CHEROKEE GOLF CRSI		Middle Fork Downstream of Breckenridge (CSO 020)
METROPOLITAN PKS SENECA GOLF COURS		Middle Fork Downstream of Breckenridge (CSO 020)
NEIL HUFFMAN CHRYSLER-PLYMOUTH	4136 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
NEIL HUFFMAN NISSAN 4311 SHELBYVILLE F		Middle Fork Downstream of Breckenridge (CSO 020)
	4301 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
PALMER PRODUCTS CORP. 146 ST. MATTHE		Middle Fork Downstream of Breckenridge (CSO 020)
SAINT MATTHEWS IMPORT SERVICE, INC. SAV A STEP #39	280 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
SAV A STEP #39 SERVICE PLUS CHEVRON #5 TOM ENGLE C	1400 PAYNE ST	Middle Fork Downstream of Breckenridge (CSO 020)
SPRINGS	1099 BALMORAL DR	Middle Fork Downstream of Breckenridge (CSO 020) Middle Fork Downstream of Breckenridge (CSO 020)
	129 FAIRFAX AVE	Middle Fork Downstream of Breckenridge (CSO 020)
	225 CHENOWETH LN	Middle Fork Downstream of Breckenridge (CSO 020)  Middle Fork Downstream of Breckenridge (CSO 020)
· · · · · · · · · · · · · · · · · · ·	3919 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
ST. MATTHEWS HARDWARE ST. MATTHEWS FIRE PROTECTION DISTRICT		
	4155 LYNDON WAY	Middle Fork Downstream of Breckenridge (CSO 020)  Middle Fork Downstream of Breckenridge (CSO 020)
	282 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
	4156 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)  Middle Fork Downstream of Breckenridge (CSO 020)
	2730 CANNONS LN	Middle Fork Downstream of Breckenridge (CSO 020)  Middle Fork Downstream of Breckenridge (CSO 020)
	4213 SHELBYVILLE RD	
BAPTIST EAST/MILESTONE WELLNESS CENT		Middle Fork Downstream of Breckenridge (CSO 020)
BAPTIST EAST/MILESTONE WELLNESS CENT BAPTIST HEALTHCARE SYSTEM, INC. BAPTIS		Middle Fork Upstream of Breckenridge (various)
	7907 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	1901 SHELDIVILLE RU	Middle Fork Upstream of Breckenridge (various)

BLUE GRASS AUTOMOTIVE LAND ROVER / J. 470 BLUE GRASS AUTOMOTIVE PORSCHE / SAAL 471 BLUE GRASS COLLISION CENTER BLUE GRASS SHELL BOB RAY CO INC BOB SHELBURNE'S AUTO BODY SHOP LYNE 730 BOB SHELBURNE'S AUTO BODY SHOP LYNE 730 BOB WASON AND ASSOCIATES DBA GYM & \$133 BOB'S MIDDLETOWN BP BP OIL COMPANY LYNDON GULF TIRE STOR 600 BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 891 CAMDEN DEVELOPMENT, INC. POST OAK AP 800 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC CARDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CAYS INN OF LOUISVILLE (EAST) ENTITY 94 CAST END GAS & FOOD MART FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY	D BLAIRWOOD RD D BOWLING BLVD D BOWLING BLVD D BOWLING BLVD D SHELBYVILLE RD D S HURSTBOURNE PKY LYNDON LN LYNDON LN D NEW LA GRANGE RD D SHELBYVILLE RD LYNDON LN D BRECKENRIDGE LN D MARKSFIELD RD D POST OAK PL D WOST OAK PL D SHELBYVILLE RD D LA GRANGE RD D SHELBYVILLE RD D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D LA GRANGE RD D LA GRANGE RD D LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D WANNAH AVE D GOOSE CREEK RD T TAYLORSVILLE RD D NEW LA GRANGE RD D NEW LA GRANGE RD D WESTPORT RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD U SHELBYVILLE RD U SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD U SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of B
BLAIRWOOD HEALTH AND SPORT CLUB BLUE GRASS AUTOMOTIVE LAND ROVER / J. 470 BLUE GRASS AUTOMOTIVE PORSCHE / SAAL 471 BLUE GRASS COLLISION CENTER BLUE GRASS SHELL BOB RAY CO INC BOB SHELBURNE'S AUTO BODY SHOP LYNL 730 BOB WASON AND ASSOCIATES DBA GYM & 813 BOB'S MIDDLETOWN BP BP OIL COMPANY LYNDON GULF TIRE STOR 600 BUDGET CAR AND TRUCK SALES HUBER'S 730 BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 891 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 COAYS INN OF LOUISVILLE (EAST) ENTITY 94 (462 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 COUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 CORAL APARTMENTS FIRST PROPERTY MA 940 COUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 COAST END GAS & FOOD MART 815 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR BER CO THE 4909 SEP. GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GRIDER & PEARL INC. 9705 LA	D BLAIRWOOD RD D BOWLING BLVD D BOWLING BLVD D BOWLING BLVD D SHELBYVILLE RD D S HURSTBOURNE PKY LYNDON LN LYNDON LN D NEW LA GRANGE RD D SHELBYVILLE RD LYNDON LN D BRECKENRIDGE LN D MARKSFIELD RD D POST OAK PL D WOST OAK PL D SHELBYVILLE RD D LA GRANGE RD D SHELBYVILLE RD D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D LA GRANGE RD D LA GRANGE RD D LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D WANNAH AVE D GOOSE CREEK RD T TAYLORSVILLE RD D NEW LA GRANGE RD D NEW LA GRANGE RD D WESTPORT RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD U SHELBYVILLE RD U SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD U SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of B
BLUE GRASS AUTOMOTIVE PORSCHE / SAA 471 BLUE GRASS COLLISION CENTER 801 BLUE GRASS SHELL 140 BOB RAY CO INC 717 BOB SHELBURNE'S AUTO BODY SHOP LYNL 730 BOB WASON AND ASSOCIATES DBA GYM 8 813 BOB'S MIDDLETOWN BP 120 BUDGET CAR AND TRUCK SALES HUBER'S 730 BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 881 CAMDEN DEVELOPMENT, INC. POST OAK AP 800 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC 700 CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CAYS INN OF LOUISVILLE (EAST) ENTITY 94 462 DIXIE DRY CLEANERS 103 DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 EAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 BORDER & PEARL INC. 9705 LAGRANGE ROA 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 970 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM WASON ASSOC. THIS IS SEP. \$13 BYM & SWIM	D BOWLING BLVD 1 SHELBYVILLE RD D S HURSTBOURNE PKY LYNDON LN LYNDON LN LYNDON LN D NEW LA GRANGE RD D SHELBYVILLE RD LYNDON LN 1 NEW LA GRANGE RD 1 BRECKENRIDGE LN 3 MARKSFIELD RD D POST OAK PL 3 SUNDANCE DR BEECHWOOD RD D SHELBYVILLE RD 10 LA GRANGE RD 11 LA GRANGE RD 12 LA GRANGE RD 13 SHELBYVILLE RD D HURSTBOURNE PARK BLVD D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD BLANKENBAKER PKY 11 SHELBYVILLE RD VANNAH AVE 1 GOOSE CREEK RD 7 TAYLORSVILLE RD D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD UWESTPORT RD UWESTPORT RD UWESTPORT RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of B
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BLUE GRASS COLLISION CENTER BLUEGRASS SHELL BOB RAY CO INC CONTROL TO SODY SHOP LYNE 730 BOB SHELBURNE'S AUTO BODY SHOP LYNE 730 BOB SHELBURNE'S AUTO BODY SHOP LYNE 730 BOB SHELBURNE'S AUTO BODY SHOP LYNE 730 BOB WASON AND ASSOCIATES DBA GYM & \$133 BOB'S MIDDLETOWN BP BP OIL COMPANY LYNDON GULF TIRE STOR 600 BUDGET CAR AND TRUCK SALES HUBER'S 730 BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 891 CAMDEN DEVELOPMENT, INC. POST OAK AP 800 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 DAYS INN OF LOUISVILLE (EAST) ENTITY 94 462 DIXIE DRY CLEANERS 103 DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 EAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 290 GOODYEAR ASSURED AUTO CARE, INC. 290 290 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. \$133 HANNAH CLEANERS 973 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 HANNAH CLEANERS 973 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 HANNAH CLEANERS 930 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 HANNAH CLEANERS 930 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 HANNAH CLEANERS 930 HURSTBOURNE PLACE 930 H	1 SHELBYVILLE RD D S HURSTBOURNE PKY LYNDON LN LYNDON LN LYNDON LN D SHELBYVILLE RD D SHELBYVILLE RD LYNDON LN 1 NEW LA GRANGE RD D BRECKENRIDGE LN D POST OAK PL D SHELBYVILLE RD D LA GRANGE RD D LA GRANGE RD D SHELBYVILLE RD D LA GRANGE RD D SHELBYVILLE RD D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD D LOGSDON CT D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D SHELBYVILLE RD D HURSTPORT RD D WESTPORT RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of B
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300 B WASON AND ASSOCIATES DBA GYM & \$133	D NEW LA GRANGE RD DO SHELBYVILLE RD LYNDON LN 1 NEW LA GRANGE RD 1 BRECKENRIDGE LN 3 MARKSFIELD RD DO POST OAK PL 3 SUNDANCE DR BEECHWOOD RD DO SHELBYVILLE RD 10 LA GRANGE RD 1 LA GRANGE RD 1 SHELBYVILLE RD DO HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD BLANKENBAKER PKY 1 SHELBYVILLE RD 1 SHELBYVILLE RD D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD D SHELBYVILLE RD 1 SHELBYVILLE RD D LOGSDON CT D FREYS HILL RD D LOGSDON CT D FREYS HILL RD D LOGSDON CT D SHELBYVILLE RD D WESTEORT RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD UNSTEOURNE CLUB LN D SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BOB'S MIDDLETOWN BP BP OIL COMPANY LYNDON GULF TIRE STOR 600 BUDGET CAR AND TRUCK SALES HUBER'S BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 81 CAMDEN DEVELOPMENT, INC. POST OAK AP 800 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CAYS INN OF LOUISVILLE (EAST) ENTITY 94 462 COXS INN OF LOUISVILLE (EAST) ENTITY 94 462 COXS INN OF LOUISVILLE (EAST) ENTITY 94 462 COXAL APARTMENTS FIRST PROPERTY MA 940 COUGLAS HILLS CONDOMINIUMS E.P. "TOM" SAWYER STATE PARK EAST END GAS & FOOD MART FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORD MANOR SWIM CLUB GOODYEAR ASSURED AUTO CARE, INC. 290 CONDERA PEARL INC. 9705 LAGRANGE ROA 970 COMPARA SURED AUTO CARE, INC. 290 CONDERA PEARL INC. 9705 LAGRANGE ROA 970 COMPARA TIRE & RUBBER CO THE 4909 S 490 CONDERA SOUNT OF LAGRANGE ROA 970 COMPARA SOUNT OF LAGRANGE ROA 970 COMPARA TIRE & RUBBER CO THE 4909 S 490 CONDITION OF LOUIS SEP. \$13 CONDITION	DO SHELBYVILLE RD LYNDON LN  1 NEW LA GRANGE RD 1 BRECKENRIDGE LN 3 MARKSFIELD RD D POST OAK PL 3 SUNDANCE DR BEECHWOOD RD DO SHELBYVILLE RD 10 LA GRANGE RD 1 LA GRANGE RD 1 LA GRANGE RD 1 SHELBYVILLE RD DO HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD BLANKENBAKER PKY 11 SHELBYVILLE RD VANNAH AVE 1 GOOSE CREEK RD 7 TAYLORSVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D SHELBYVILLE RD D LOGSDON CT 1 SHELBYVILLE RD D LOGSDON CT D FREYS HILL RD D LOGSDON CT D SHELBYVILLE RD D LOGSDON CT O SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD D SHELBYVILLE RD D HURSTBOURNE CLUB LN D SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BP OIL COMPANY LYNDON GULF TIRE STOR 600 BUDGET CAR AND TRUCK SALES HUBER'S 730 BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR! 891 CAMDEN DEVELOPMENT, INC. POST OAK AP 800 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC 700 CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CAYS INN OF LOUISVILLE (EAST) ENTITY 944 462 DIXIE DRY CLEANERS 103 CORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 CAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 GOODYEAR ASSURED AUTO CARE, INC. 290 GOODYEAR ASSURED AUTO CARE, INC. 290 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GRIDER & PEARL INC. 9705 LAGRANGE	LYNDON LN  1 NEW LA GRANGE RD  1 BRECKENRIDGE LN  3 MARKSFIELD RD  3 POST OAK PL  5 SUNDANCE DR  BEECHWOOD RD  30 SHELBYVILLE RD  10 LA GRANGE RD  11 LA GRANGE RD  12 SHELBYVILLE RD  13 SHELBYVILLE RD  14 SHELBYVILLE RD  15 HURSTBOURNE PARK BLVD  16 LOGSDON CT  17 FREYS HILL RD  18 SHELBYVILLE RD  19 HURSTBOURNE PARK BLVD  10 LOGSDON CT  10 FREYS HILL RD  11 SHELBYVILLE RD  12 SHELBYVILLE RD  13 SHELBYVILLE RD  14 SHELBYVILLE RD  15 SHELBYVILLE RD  16 SHELBYVILLE RD  17 TAYLORSVILLE RD  18 SHELBYVILLE RD  19 SHELBYVILLE RD  10 SHELBYVILLE RD  10 SHELBYVILLE RD  10 SHELBYVILLE RD  10 SHELBYVILLE RD  11 SHELBYVILLE RD  12 SHELBYVILLE RD  13 SHELBYVILLE RD  14 SHELBYVILLE RD  15 SHELBYVILLE RD  16 SHELBYVILLE RD  17 SHELBYVILLE RD  18 SHELBYVILLE RD  19 SHELBYVILLE RD  10 SHELBYVILLE RD  10 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
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BURBANK CHEVRON (FORMER SITE OF CSC 100 CAMDEN DEVELOPMENT, INC. HURSTBOUR 891 CAMDEN DEVELOPMENT, INC. SUNDANCE A 771 CAREFREE LAWNS INC 700 CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CAYS INN OF LOUISVILLE (EAST) ENTITY 94 462 CONCAL PARTMENTS FIRST PROPERTY MA 940 COUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 CAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 100 A7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR STATE 8 RUBBER CO THE 4909 SHOW GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. 813 HANNAH CLEANERS 930 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 INVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 LAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 LAGS AUTOMOTIVE MIDA	BRECKENRIDGE LN MARKSFIELD RD POST OAK PL SUNDANCE DR BEECHWOOD RD SHELBYVILLE RD LA GRANGE RD LA GRANGE RD LA GRANGE RD SHELBYVILLE RD SHELBYVILLE RD FREYS HILL RD SHELBYVILLE RD SHELBYVILLE RD LOGSDON CT SHELBYVILLE RD LOGSDON CT TO FREYS HILL RD SHELBYVILLE RD SHELBYVILLE RD LOGSDON CT SHELBYVILLE RD LOGSDON CT SHELBYVILLE RD LOGSDON CT SHELBYVILLE RD LANKENBAKER PKY SHELBYVILLE RD LOGSDON CT SHELBYVILLE RD LA GRANGE RD LA GRAN	Middle Fork Upstream of Breckenridge (various)
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CAREFREE LAWNS INC CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CENTRAL STATE HOSPITAL 105 CONCORD CUSTOM CLEANERS 9901 LA GRA 990 CONCORD CLEANERS 103 CORAL APARTMENTS FIRST PROPERTY MA 940 COUGLAS HILLS CONDOMINIUMS 800 C. P. "TOM" SAWYER STATE PARK 300 COUGLAS HILLS CONDOMINIUMS 800 C. P. "TOM" SAWYER STATE PARK 105 CAST END GAS & FOOD MART 151 CIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 COXBORO MANOR SWIM CLUB 702 COXBORO MANOR SWIM CLUB 702 COODYEAR ASSURED AUTO CARE, INC. 290 290 COODYEAR ASSURED AUTO CARE, INC. 290 290 COODYEAR ASSURED AUTO CARE, INC. 403 403 COODYEAR ASSURED AUTO CARE, INC. 900 COMPERA PEARL INC. 9705 LAGRANGE ROA 970 COMPAN & SWIM WASON ASSOC. THIS IS SEP. 813 HANNAH CLEANERS 873 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 LAGS AUTOMOTIVE 4047 TAYLORSVILLE RO. 404 CEFFERSON COUNTY RECYCLING CENTER \$930 CEFFRIES SHELL 926 CEFFRIES SHELL 926 CEMISH MEDICAL CENTER EAST 992 CEFFRIES SHELL 926 CEMISH MEDICAL CENTER EAST 992 CEMISH SHELBYVILLE RD 790 CEMISH MEDICAL CENTER EAST 992 CEMISH SHELBYVILLE RD 790 CEMISH MEDICAL CENTER EAST 992 CEMISH SHELBYVILLE RD 790 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SHELL 1323 HURSTBOURNE L 132: CEMISH CLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH SCLEANERS 110 CEMISH MEDICAL CENTER TEN BROECK HOSP 852 CEMISH	BEECHWOOD RD  OO SHELBYVILLE RD  IO LA GRANGE RD  I LA GRANGE RD  I SHELBYVILLE RD  OB SHELBYVILLE RD  OHURSTBOURNE PARK BLVD  LOGSDON CT  OFREYS HILL RD  BLANKENBAKER PKY  I SHELBYVILLE RD  VANNAH AVE  GOOSE CREEK RD  TAYLORSVILLE RD  OSHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CAUDILL BP DOUGLASS HILLS GULF SERVIC 106 CENTRAL STATE HOSPITAL 105 CENTRAL APARTMENTS FIRST PROPERTY MA 940 CENTRAL APARTMENTS FIRST PROPERTY MA 940 CENTRAL APARTMENTS FIRST PROPERTY MA 940 CENTRAL STATE PARK 300 CENTRAL STATE PARK 3	DO SHELBYVILLE RD  10 LA GRANGE RD  1 LA GRANGE RD  1 SHELBYVILLE RD  20 SHELBYVILLE RD  21 HURSTBOURNE PARK BLVD  22 LOGSDON CT  23 FREYS HILL RD  24 BLANKENBAKER PKY  25 SHELBYVILLE RD  26 VANNAH AVE  27 GOOSE CREEK RD  27 TAYLORSVILLE RD  28 SHELBYVILLE RD  29 SHELBYVILLE RD  20 SHELBYVILLE RD  20 SHELBYVILLE RD  30 SHELBYVILLE RD  31 CARANGE RD  32 ONEW LA GRANGE RD  33 ONEW LA GRANGE RD  34 ONEW LA GRANGE CLUB LN  35 HELBYVILLE RD  36 LA GRANGE RD  37 ONEW LA GRANGE RD  38 ONEW LA GRANGE RD  49 ONEW LA GRANGE CLUB LN  40 SHELBYVILLE RD  41 INVERARY CT  52 OWESTPORT RD  42 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CENTRAL STATE HOSPITAL  CONCORD CUSTOM CLEANERS 9901 LA GRA 990 DAYS INN OF LOUISVILLE (EAST) ENTITY 94 482 DIXIE DRY CLEANERS  DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS  E. P. "TOM" SAWYER STATE PARK  SOE P. "TOM" SAWYER STATE PARK  SAST END GAS & FOOD MART  FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOOXBORO MANOR SWIM CLUB  GOODYEAR ASSURED AUTO CARE, INC. 290 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR HILLS RUBBER CO THE 4909 SI 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. 813 HANNAH CLEANERS  HURSTBOURNE COUNTRY CLUB HURSTBOURNE PLACE  NVERNESS CONDOMINIUM  LC. CIGARETTE OUTLET 8730 WESTPORT R 873 LAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 LAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 LAGS AUTOMOTIVE 4047 TAYLORSVILLE RO, 404 EFFERSON COUNTY RECYCLING CENTER # 930 EFFRIES SHELL  EWISH MEDICAL CENTER EAST  SEFFY LUBE SHELBYVILLE RD  KM I MEDICAL CENTER EAST  SEFFY LUBE SHELBYVILLE RD  KM I MEDICAL CENTER TEN BROECK HOSP 852 CIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: CIMPS CLEANERS  CROGER STORE & FUEL L-272 9236 WESTP(9236) CROGER STORE & FUEL L-272 9236 WESTP(9236)	IO LA GRANGE RD  I LA GRANGE RD  I SHELBYVILLE RD  B SHELBYVILLE RD  O HURSTBOURNE PARK BLVD  LOGSDON CT  O FREYS HILL RD  BLANKENBAKER PKY  II SHELBYVILLE RD  VANNAH AVE  I GOOSE CREEK RD  7 TAYLORSVILLE RD  5 LA GRANGE RD  O NEW LA GRANGE RD  O WESTPORT RD  O SHELBYVILLE RD  O HURSTBOURNE CLUB LN  O SHELBYVILLE RD  O HURSTBOURNE CLUB LN  O SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CONCORD CUSTOM CLEANERS 9901 LA GRA 990 DAYS INN OF LOUISVILLE (EAST) ENTITY 94 482 DIXIE DRY CLEANERS 103 DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 EAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR HIRE & RUBBER CO THE 4909 S 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. 813 HANNAH CLEANERS 873 HANNAH CLEANERS 873 HANNAH CLEANERS 930 ILC. CIGARETTE OUTLET 8730 WESTPORT R 873 IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO, 404 IEFFERSON COUNTY RECYCLING CENTER # 930 INFY LUBE SHELBYVILLE RD 790 IN IMPORTANT RECYCLING CENTER # 930 IN IMPORTANT RECYCLING R PARTY R 930 IN IMPORTANT R	I LA GRANGE RD I SHELBYVILLE RD SHELBYVILLE RD DHURSTBOURNE PARK BLVD LOGSDON CT FREYS HILL RD BLANKENBAKER PKY I SHELBYVILLE RD SHELBYVILLE RD GOSE CREEK RD TAYLORSVILLE RD SHELBYVILLE RD LA GRANGE RD NEW LA GRANGE RD WESTPORT RD SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CONCORD CUSTOM CLEANERS 9901 LA GRA 990 DAYS INN OF LOUISVILLE (EAST) ENTITY 94 482 DIXIE DRY CLEANERS 103 DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 EAST END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR ASSURED AUTO CARE, INC. 403 GOODYEAR HIRE & RUBBER CO THE 4909 S 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. 813 HANNAH CLEANERS 873 HANNAH CLEANERS 873 HANNAH CLEANERS 930 ILC. CIGARETTE OUTLET 8730 WESTPORT R 873 IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO, 404 IEFFERSON COUNTY RECYCLING CENTER # 930 INFY LUBE SHELBYVILLE RD 790 IN IMPORTANT RECYCLING CENTER # 930 IN IMPORTANT RECYCLING R PARTY R 930 IN IMPORTANT R	I LA GRANGE RD I SHELBYVILLE RD SHELBYVILLE RD DHURSTBOURNE PARK BLVD LOGSDON CT FREYS HILL RD BLANKENBAKER PKY I SHELBYVILLE RD SHELBYVILLE RD GOSE CREEK RD TAYLORSVILLE RD SHELBYVILLE RD LA GRANGE RD NEW LA GRANGE RD WESTPORT RD SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
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DIXIE DRY CLEANERS 103 DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 E. P. "TOM" SAWYER STATE PARK 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHEL 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 290 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR TIRE & RUBBER CO THE 4909 \$ 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. \$ 813 HANNAH CLEANERS 873 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 I.C. CIGARETTE OUTLET 8730 WESTPORT R 873 IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO 404 IEFFRIES SHELL 926 EEFFRIES SHELL 926 IEFFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER EAST 392: IIFFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 790 IM I MEDICAL CENTER TEN BROECK HOSP 852 IIIFY LUBE SHELBYVILLE RD 780 INDERCARE 371 110 INDERCARE 371 120	28 SHELBYVILLE RD 20 HURSTBOURNE PARK BLVD 21 LOGSDON CT 22 FREYS HILL RD 23 BLANKENBAKER PKY 24 SHELBYVILLE RD 25 SHELBYVILLE RD 26 SHELBYVILLE RD 27 TAYLORSVILLE RD 28 SHELBYVILLE RD 29 SHELBYVILLE RD 20 NEW LA GRANGE RD 20 WESTPORT RD 21 HURSTBOURNE CLUB LN 21 SHELBYVILLE RD 22 SHELBYVILLE RD 23 SHELBYVILLE RD 24 SHELBYVILLE RD 26 SHELBYVILLE RD 27 SHELBYVILLE RD 28 SHELBYVILLE RD 29 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
DORAL APARTMENTS FIRST PROPERTY MA 940 DOUGLAS HILLS CONDOMINIUMS 800 E. P. "TOM" SAWYER STATE PARK 300 E. P. "TOM" SAWYER STATE PARK 800 E. SAT END GAS & FOOD MART 815 FIRESTONE KEN TOWERY 11811 SHELBYVIL 118 FIRESTONE KEN TOWERY'S-NO 3 7511 SHE 751 FOXBORO MANOR SWIM CLUB 702 GOODYEAR ASSURED AUTO CARE, INC. 290 290 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 900 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GYM & SWIM WASON ASSOC. THIS IS SEP. \$13 HANNAH CLEANERS 873 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO. 404 EFFFRES NELL 926 EFFRIES SHELL 926 EWISH MEDICAL CENTER EAST 392: IFFY LUBE SHELBYVILLE RD 790 KM I MEDICAL CENTER TEN BROECK HOSP 852 KIEL BROS. BP # 217 1323 HURSTBOURNE L 132: KIM'S CLEANERS 221 KINDERCARE 371 KINDERCARE 371 KINGSWOOD APARTMENTS 780 KROGER STORE & FUEL L-272 9236 WESTP(9236)	D HURSTBOURNE PARK BLVD LOGSDON CT D FREYS HILL RD BLANKENBAKER PKY 11 SHELBYVILLE RD I SHELBYVILLE RD VANNAH AVE I GOOSE CREEK RD TAYLORSVILLE RD D SHELBYVILLE RD C SHELBYVILLE RD D WESTPORT RD D HURSTBOURNE CLUB LN SHELBYVILLE RD U SHELBYVILLE RD D HURSTBOURNE CLUB LN UNERARY CT D WESTPORT RD UNESTPORT RD UNESTPORT RD UNESTPORT RD UNESTPORT RD SHELBYVILLE RD VESTPORT RD	Middle Fork Upstream of Breckenridge (various)
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EAST END GAS & FOOD MART  FIRESTONE KEN TOWERY 11811 SHELBYVIL 118  FIRESTONE KEN TOWERYS-NO 3 7511 SHE 751  FOXBORO MANOR SWIM CLUB  GOODYEAR ASSURED AUTO CARE, INC. 290  GOODYEAR ASSURED AUTO CARE, INC. 403  GOODYEAR ASSURED AUTO CARE, INC. 403  GOODYEAR TIRE & RUBBER CO THE 4909 S 490  GRIDER & PEARL INC. 9705 LAGRANGE ROA 970  GYM & SWIM WASON ASSOC. THIS IS SEP. 813  HANNAH CLEANERS  HANNAH CLEANERS  HURSTBOURNE COUNTRY CLUB  HURSTBOURNE PLACE  NVERNESS CONDOMINIUM  LC. CIGARETTE OUTLET 8730 WESTPORT R 873  LAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115  LAGS AUTOMOTIVE 4047 TAYLORSVILLE RO, 404  HEFFERSON COUNTY RECYCLING CENTER # 390  EFFRIES SHELL  EWISH MEDICAL CENTER EAST  GEFFY LUBE SHELBYVILLE RD  KM I MEDICAL CENTER TEN BROECK HOSP 852  KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132:  KIM'S CLEANERS  LINDERCARE 371  KINGSWOOD APARTMENTS  KROGER STORE & FUEL L-272 9236 WESTP(9236)	BLANKENBAKER PKY  11 SHELBYVILLE RD  1 SHELBYVILLE RD  VANNAH AVE  1 GOOSE CREEK RD  7 TAYLORSVILLE RD  2 SHELBYVILLE RD  3 LA GRANGE RD  3 NEW LA GRANGE RD  3 HURSTBOURNE CLUB LN  3 SHELBYVILLE RD  4 INVERARY CT  5 WESTPORT RD  4 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
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GOODYEAR ASSURED AUTO CARE, INC. 290 290 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR TIRE & RUBBER CO THE 4909 S 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 ASYM & SWIM WASON ASSOC. THIS IS SEP. \$133 HANNAH CLEANERS 970 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE COUNTRY CLUB 900 HURSTBOURNE PLACE 930 INVERNESS CONDOMINIUM 123 INVERNESS CONDOMINIUM 123 INVERNESS CONDOMINIUM 123 INVERNESS CONDOMINIUM 124 INVERTIGATION OF THE WASTE OF THE	GOOSE CREEK RD TAYLORSVILLE RD SHELBYVILLE RD LA GRANGE RD WESTPORT RD HURSTBOURNE CLUB LN SHELBYVILLE RD INVERARY CT WESTPORT RD WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
GOODYEAR ASSURED AUTO CARE, INC. 403 403 GOODYEAR TIRE & RUBBER CO THE 4909 S 490 GRIDER & PEARL INC. 9705 LAGRANGE ROA 970 GRIDER & PEARL INC. THIS IS SEP. \$130 GRIDER & PEARL INC. CHARLES BOOM OF THE BO	7 TAYLORSVILLE RD 9 SHELBYVILLE RD 5 LA GRANGE RD 0 NEW LA GRANGE RD 0 WESTPORT RD 0 HURSTBOURNE CLUB LN 0 SHELBYVILLE RD 1 INVERARY CT 0 WESTPORT RD 14 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
GOODYEAR TIRE & RUBBER CO THE 4909 S 4900 GRIDER & PEARL INC. 9705 LAGRANGE ROA 9703 GYM & SWIM WASON ASSOC. THIS IS SEP. 8131 HANNAH CLEANERS 8731 HURSTBOURNE COUNTRY CLUB 9000 HURSTBOURNE PLACE 9300 NVERNESS CONDOMINIUM 1231 LC. CIGARETTE OUTLET 8730 WESTPORT R 8731 AGS AUTOMOTIVE MIDAS AUTO SYSTEMS 1155 AGS AUTOMOTIVE 4047 TAYLORSVILLE ROJ 404 HEFFERSON COUNTY RECYCLING CENTER # 9300 HEFFRIES SHELL 9261 EWISH MEDICAL CENTER EAST 9261 HEFFY LUBE SHELBYVILLE RD 7901 K M I MEDICAL CENTER TEN BROECK HOSP 8522 KIEL BROS. BP # 217 1323 HURSTBOURNE LN 1322 KIM'S CLEANERS 221 LINDERCARE 371 1101 KINGSWOOD APARTMENTS 7803 KROGER STORE & FUEL L-272 9236 WESTP(9236)	S SHELBYVILLE RD LA GRANGE RD NEW LA GRANGE RD HURSTBOURNE CLUB LN SHELBYVILLE RD WESTPORT RD WESTPORT RD WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
ARIDER & PEARL INC. 9705 LAGRANGE ROA 9705  3YM & SWIM WASON ASSOC. THIS IS SEP. \$13  4ANNAH CLEANERS	5 LA GRANGE RD 0 NEW LA GRANGE RD 0 WESTPORT RD 0 HURSTBOURNE CLUB LN 0 SHELBYVILLE RD 1 INVERARY CT 0 WESTPORT RD 14 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
ARIDER & PEARL INC. 9705 LAGRANGE ROA 9705  3YM & SWIM WASON ASSOC. THIS IS SEP. \$13  4ANNAH CLEANERS	5 LA GRANGE RD 0 NEW LA GRANGE RD 0 WESTPORT RD 0 HURSTBOURNE CLUB LN 0 SHELBYVILLE RD 1 INVERARY CT 0 WESTPORT RD 14 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
AYM & SWIM WASON ASSOC. THIS IS SEP. \$134  HANNAH CLEANERS 9734  HURSTBOURNE COUNTRY CLUB 9004  HURSTBOURNE PLACE 9300  I.C. CIGARETTE OUTLET 8730 WESTPORT R 8731  I.C. CIGARETTE OUTLET 8730 WESTPORT R 8731  IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 1155  IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO 4041  IEFFERSON COUNTY RECYCLING CENTER #9301  IEFFRIES SHELL 9266  IEWISH MEDICAL CENTER EAST 392:  IIFFY LUBE SHELBYVILLE RD 7900  IM I MEDICAL CENTER TEN BROECK HOSP 852:  IIEL BROS. BP # 217 1323 HURSTBOURNE LN 132:  IIM'S CLEANERS 221  INDERCARE 371 1101  INDESWOOD APARTMENTS 7805  IROGER STORE & FUEL L-272 9236 WESTP(9236)	NEW LA GRANGE RD WESTPORT RD HURSTBOURNE CLUB LN SHELBYVILLE RD WESTPORT RD SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
HANNAH CLEANERS   873    HURSTBOURNE COUNTRY CLUB   900    HURSTBOURNE PLACE   930    HURSTBOURNE PLACE   930    HURSTBOURNE PLACE   930    LC. CIGARETTE OUTLET 8730 WESTPORT R 873    AGS AUTOMOTIVE MIDAS AUTO SYSTEMS   115    AGS AUTOMOTIVE 4047 TAYLORSVILLE RO   404    EFFERSON COUNTY RECYCLING CENTER #930    EFFRIES SHELL   926    EWISH MEDICAL CENTER EAST   392    IFFY LUBE SHELBYVILLE RD   790    CM   MEDICAL CENTER TEN BROECK HOSP   852    KIEL BROS. BP #217 1323 HURSTBOURNE LN 132    KIM'S CLEANERS   221    KINGSWOOD APARTMENTS   780    KROGER STORE & FUEL L-272 9236 WESTP   9236	O WESTPORT RD O HURSTBOURNE CLUB LN O SHELBYVILLE RD I INVERARY CT O WESTPORT RD 4 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
#URSTBOURNE COUNTRY CLUB 900 #URSTBOURNE PLACE 930 NVERNESS CONDOMINIUM 123 LC. CIGARETTE OUTLET 8730 WESTPORT R 873 IAGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 IAGS AUTOMOTIVE 4047 TAYLORSVILLE RO 404 IEFFERSON COUNTY RECYCLING CENTER #930 IEFFRIES SHELL 926 IEFFY LUBE SHELBYVILLE RD 790 K M I MEDICAL CENTER EAST 392: KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: KIM'S CLEANERS 221 KINDERCARE 371 110 KINGSWOOD APARTMENTS 7805 KROGER STORE & FUEL L-272 9236 WESTP(9236)	D HURSTBOURNE CLUB LN D SHELBYVILLE RD I INVERARY CT D WESTPORT RD 4 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
HURSTBOURNE PLACE 9300  NVERNESS CONDOMINIUM 123.  L.C. CIGARETTE OUTLET 8730 WESTPORT R 8731  AGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115  AGS AUTOMOTIVE 4047 TAYLORSVILLE ROJ.  EFFERSON COUNTY RECYCLING CENTER #9301  EFFRIES SHELL  EWISH MEDICAL CENTER EAST 392:  IFFY LUBE SHELBYVILLE RD 7901  K M I MEDICAL CENTER TEN BROECK HOSP 852:  KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132:  KIM'S CLEANERS 221  INDERCARE 371 1101  KINGSWOOD APARTMENTS 7803  KROGER STORE & FUEL L-272 9236 WESTP 9236	O SHELBYVILLE RD I INVERARY CT O WESTPORT RD I SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
NVERNESS CONDOMINIUM  123.  1.C. CIGARETTE OUTLET 8730 WESTPORT R  1.C. CIGARETTE EAD  1.C. CIGARETTE 9300  1.C. CIGARETTE SHELL	I INVERARY CT  ) WESTPORT RD  4 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
I.C. CIGARETTE OUTLET 8730 WESTPORT R 1AGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 1AGS AUTOMOTIVE 4047 TAYLORSVILLE RO, 404 1EFFRESON COUNTY RECYCLING CENTER # 930 1EFFRIES SHELL 926 1EWISH MEDICAL CENTER EAST 392 1IFFY LUBE SHELBYVILLE RD 790 1K M I MEDICAL CENTER TEN BROECK HOSP 852 1KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: 1KIM'S CLEANERS 221 1KINDERCARE 371 110 1KINGSWOOD APARTMENTS 780 1KROGER STORE & FUEL L-272 9236 WESTP 9236	) WESTPORT RD 4 SHELBYVILLE RD	
AGS AUTOMOTIVE MIDAS AUTO SYSTEMS 115 AGS AUTOMOTIVE 4047 TAYLORSVILLE RO. 404 EFFERSON COUNTY RECYCLING CENTER #930 EFFRIES SHELL 926 EWISH MEDICAL CENTER EAST 992: IFFY LUBE SHELBYVILLE RD 7900 K M I MEDICAL CENTER TEN BROECK HOSP 852 KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: KIM'S CLEANERS 221 KINDERCARE 371 1100 KINGSWOOD APARTMENTS 7803 KROGER STORE & FUEL L-272 9236 WESTP 9236	4 SHELBYVILLE RD	wild die Hork Opstream of Breckennage (Various)
AGS AUTOMOTIVE 4047 TAYLORSVILLE RO/ 404 IEFFERSON COUNTY RECYCLING CENTER # 9301 IEFFRIES SHELL 9261 IEWISH MEDICAL CENTER EAST 392: IIFFY LUBE SHELBYVILLE RD 7901 CM I MEDICAL CENTER TEN BROECK HOSP 852 CIBEL BROS. BP # 217 1323 HURSTBOURNE LN 132: C		
EFFERSON COUNTY RECYCLING CENTER # 930    IEFFRIES SHELL		Middle Fork Upstream of Breckenridge (various)
SEFFRIES SHELL		Middle Fork Upstream of Breckenridge (various)
EWISH MEDICAL CENTER EAST   392:   1979	WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various)
790	WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
M   MEDICAL CENTER TEN BROECK HOSP   852	DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: KIM'S CLEANERS 221 KINDERCARE 371 1100 KINGSWOOD APARTMENTS 780: KROGER STORE & FUEL L-272 9236 WESTP( 9236	SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
KIEL BROS. BP # 217 1323 HURSTBOURNE LN 132: KIM'S CLEANERS 221 KINDERCARE 371 1100 KINGSWOOD APARTMENTS 780: KROGER STORE & FUEL L-272 9236 WESTP( 9236	LA GRANGE RD	Middle Fork Upstream of Breckenridge (various)
KIM'S CLEANERS       221         KINDERCARE 371       1100         KINGSWOOD APARTMENTS       7800         KROGER STORE & FUEL L-272 9236 WESTP(923)		Middle Fork Upstream of Breckenridge (various)
KINDERCARE 371       1100         KINGSWOOD APARTMENTS       7800         KROGER STORE & FUEL L-272 9236 WESTP(9230)	S HURSTBOURNE PKY	Middle Fork Upstream of Breckenridge (various)
KINGSWOOD APARTMENTS 7809 (ROGER STORE & FUEL L-272 9236 WESTP( 9236	LYNDON LN	Middle Fork Upstream of Breckenridge (various)
ROGER STORE & FUEL L-272 9236 WESTP( 9236	ROYALTY AVE	Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
ANGGER STORE LIGHTS BOTZ LINN STATIONRUSS.		Middle Fork Upstream of Breckenridge (various)
		<u> </u>
	WARWICK AVE	Middle Fork Upstream of Breckenridge (various)
EIS TOM SALES & SERVICE INC 12013 SHE 120		Middle Fork Upstream of Breckenridge (various)
ESLIE'S SWIMMING POOL SUPPLY ENTITY : 9800		Middle Fork Upstream of Breckenridge (various)
	4 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
OUISVILLE INDOOR RACQUET CLUB PLAN   8609		Middle Fork Upstream of Breckenridge (various)
YNDON FIRE DISTRICT 8126		Middle Fork Upstream of Breckenridge (various)
YNDON FIRE PROTECTION 8414	WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
AAC'S CONVENIENCE STORE DBA BIG FOOT 9619	WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various)
AC'S CONVENIENCE STORE DBA BIG FOOT 1330		Middle Fork Upstream of Breckenridge (various)
MAC'S CONVENIENCE STORE DBA DAIRY MA 990		Middle Fork Upstream of Breckenridge (various)
MAC'S CONVENIENCE STORES DBA BIGFOO 940		Middle Fork Upstream of Breckenridge (various)
MCMAHAN FIRE DEPT./JEFF CTY. FIRE PROT 4318		Middle Fork Upstream of Breckenridge (various)
TETROPOLITAN PKS SAWYER DISTRICT 9300		Middle Fork Upstream of Breckenridge (various)
METROPOLITAN SEWER DISTRICT GOOSE CI7800		Middle Fork Upstream of Breckenridge (various)
METROPOLITAN SEWER DISTRICT RUNNING 1202		Middle Fork Upstream of Breckenridge (various)
MIDDLETOWN FIRE PROTECTION DISTRICT (102		Middle Fork Upstream of Breckenridge (various)
	2 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	L MILL DONAL DO	Middle Fork Upstream of Breckenridge (various)
ORTON HOSPITAL INC. DBA, NORTON SUB 400	MILL BROOK RD	Middle Fork Upstream of Breckenridge (various)
ISS ENVIRONMENTAL, INC. 8003		
OCHSNER'S GARAGE SERVICE 4502 SHELB 4502		Middle Fork Upstream of Breckenridge (various)
	DUTCHMANS LN VINE CREST AVE	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
	DUTCHMANS LN VINE CREST AVE SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
OXMOOR TOYOTA 8107	DUTCHMANS LN VINE CREST AVE	

Company Name	Address	Tributary to CSO#
PARK LAUREATE APARTMENTS INSIGNIA		
PENNZOIL 10 MINUTE OIL CHANGE CENTEI	2 813 DIANKENDAKED DKV	Middle Fork Upstream of Breckenridge (various)
PENNZOIL OIL CHANGE	613 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
PEP BOYS AUTOMOTIVE SUPERCENTER 1	010 LINGON EN	Middle Fork Upstream of Breckenridge (various)
PLAINVIEW APARTMENTS INSIGNIA MANAC	SE1000 STONE SPRING WAY	Middle Fork Upstream of Breckenridge (various)
PRECISION TUNE AUTO CARE 4601 SHELB	VI4601 SHELBY/ILLE DD	Middle Fork Upstream of Breckenridge (various)
PRESSED FOR YOU	201 MOSER RD	Middle Fork Upstream of Breckenridge (various)
ROD'S AUTOMOTIVE SVC	7917 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
ROPPEL'S AUTO SERVICE CENTER ROPPE	1 11601 SHELDIVILLE RD	Middle Fork Upstream of Breckenridge (various)
SCOTT HALL'S IMPORTS	206 OLD HARRODS CREEK RD	Middle Fork Upstream of Breckenridge (various)
SHELBURNE'S BOB BODY SHOP	8025 VINE CREST AVE	Middle Fork Upstream of Breckenridge (various)
SHIELDS SERVICE LLC	2502 HERMITAGE WAY	Middle Fork Upstream of Breckenridge (various)
SPEEDWAY SUPERAMERICA LLC SUPERAM	AE 1416 I VNDON I N	Middle Fork Upstream of Breckenridge (various)
SPEEDWAY SUPERAMERICA LLC SUPERAM	MIGNALE SHELDANILLE DD	Middle Fork Upstream of Breckenridge (various)
SPEEDWAY SUPERAMERICA LLC SUPERAM	AF 12102 SHELD WILLE DD	Middle Fork Upstream of Breckenridge (various)
SPEEDWAY SUPERAMERICA LLC SUPERAM	ADJEAT TAN OPENILE RD	Middle Fork Upstream of Breckenridge (various)
SPINDLEWICK CONDOS	810 WASHBURN AVE	Middle Fork Upstream of Breckenridge (various)
STAR CHEMICAL CO. INC.		Middle Fork Upstream of Breckenridge (various)
STAR FORD AT OXMOOR	8027 VINE CREST AVE	Middle Fork Upstream of Breckenridge (various)
STEIN AUTOMOTIVE, INC. MIDDLETOWN	100 OXMOOR LN	Middle Fork Upstream of Breckenridge (various)
STONY BROOK CHEVRON 4854 ENTECTAD	12200 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
STONY BROOK CHEVRON #854 FIVE STAR STUDIO PLUS AT LOUISVILLE ST. MATTHEV	MAAAA BROMMELT	Middle Fork Upstream of Breckenridge (various)
STRUBBAN CLEANEDO		Middle Fork Upstream of Breckenridge (various)
SUBURBAN CLEANERS SUNTIME POOLS WEST	9613 WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORD NO 400 0000 TALE 0	11509 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORP NO 102 3909 TAYLOR	S3911 IAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORP. #34 605 LYNDON LN.	605 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORP. #97 4500 SHELBYVII	14500 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
TRAN'S-GO TRANSMISSION 8022 LA GRANC	3 8022 NEW LA GRANGE RD	Middle Fork Upstream of Breckenridge (various)
UNIVERSITY OF LOUISVILLE SHELBY CAMP		Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE	8701 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE	11813 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE 3920 TAY		Middle Fork Upstream of Breckenridge (various)
WESTBURY HARBOR APARTMENTS	1007 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
B.P. OIL COMPANY #51 1035 ZORN AVE. FOR		Muddy Fork (CSO 154)
CARGILL 2601 UPPER RIVER ROAD	2601 RIVER RD	Muddy Fork (CSO 154)
DEPARTMENT OF VETERANS AFFAIRS MED	1 800 ZORN AVE	Muddy Fork (CSO 154)
JIM HENDRIX CHEVRON SERVICE, INC.	3002 RIVER RD	Muddy Fork (CSO 154)
OUISVILLE WATER CO-ZORN PUMP STA	3005 RIVER RD	Muddy Fork (CSO 154)
MARINE SALES AND SERVICE	2929 RIVER RD	Muddy Fork (CSO 154)
METAL SERVICES INTERNATIONAL, INC. ME	12033 METALLN	Muddy Fork (CSO 154)
RIVER METALS RECYCLING RIVER CITY SH		Muddy Fork (CSO 154)
RIVER ROAD TERMINAL	2601 RIVER RD	Muddy Fork (CSO 154)
RIVER METALS	2114 METALLN	Muddy Fork (CSO 154)
ADVANTAGE PLASTICS ENGINEERING	4524 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
AIR SYSTEMS INC	4512 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
AIRGAS FORMERLY AIRCO GAS AND GEAR,	4534 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
A-LINE TOOL & DIE INC.	4158 RESERVOIR AVE	Nightingale PS (CSO 015 or South Fork CSOs)
ALL-STATE FORD TRUCK SALES	1357 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
ALPINE ICE ARENA	1825 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
APOLLO OIL LLC EXPRESS CARE (NORTH SI	3028 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
ART'S SERVICE CENTER	4213 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
NUGIE'S CAR CARE	1424 LINCOLN AVE	Nightingale PS (CSO 015 or South Fork CSOs)
BLAZER TRUCK LINES	1234 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
BLUEGRASS GRAPHIC SUPPLY CO INC	4340 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
& O PRECISION COLLISION CENTER ENTI		Nightingale PS (CSO 015 or South Fork CSOs)
CALVARY CEMETARY	1600 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
ARITAS PEACE CENTER OUR LADY OF PE		Nightingale PS (CSO 015 or South Fork CSOs)
LEAR CHANNEL COMMUNICATIONS	4000 RADIO DR	Nightingale PS (CSO 015 or South Fork CSOs)
ROSS PONTIAC-AMC-JEEP-RENAULT	1501 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
EAN MILK	4420 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
RY RIDGE DIST.	1234 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
INISHMASTERS, INC□		
UITE B	4350 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
ISHEL COMPANY	4508 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
IVE STAR FOOD MART. NEWBURG CHEVRO	3333 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
LYNN BROTHERS CONTRACTING	4620 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
RANCK BROTHERS COLLISION CENTER 170		Nightingale PS (CSO 015 or South Fork CSOs)
RANK OTTE NURSERY INC		Nightingale PS (CSO 015 or South Fork CSOs)
ATEWAY PRESS, INC.	4500 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
OODYEAR TIRE & RUBBER CO THE 3006 BA		Nightingale PS (CSO 015 or South Fork CSOs)
AAS AUTO PARTS AND MACHINE		Nightingale PS (CSO 015 or South Fork CSOs)
ANCOCK ENGINEERING CORP		Nightingale PS (CSO 015 of South Fork CSOs)
ANNAH'S 1 HOUR CLEANERS		Nightingale PS (CSO 015 or South Fork CSOs)  Nightingale PS (CSO 015 or South Fork CSOs)
EAVENLY HAM	3002 BARDSTOWN RD	Nightingale PS (CSO 015 or South Fork CSOs)  Nightingale PS (CSO 015 or South Fork CSOs)
	0111001011111111111111111111111111	ingridingale Fo (CoO o to di South Folk CSOS)
OWARD'S CLEANERS	1000 TREVILIAN WAY	Nightingale DS (CSC) 045 or South Sort-CDC-1
OWARD'S CLEANERS ENTUCKY ASSOCIATION OF ELECTRIC COC		Nightingale PS (CSO 015 or South Fork CSOs) Nightingale PS (CSO 015 or South Fork CSOs)

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Company Name	Address	Tributary to CSO#
LAMBERT'S PAINT AND BODY SHOP LAMINATING SERVICES, INC.	1400 BELMAR DR	Nightingale PS (CSO 015 or South Fork CSOs)
LOUISVILLE FIRE DEPARTMENT QUINT 9 - 38	4700 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
LOUISVILLE LUMBER & MILLWORK CO INC	1400 LINCOLN AVE	Nightingale PS (CSO 015 or South Fork CSOs)
LOUISVILLE ZOOLOGICAL GARDEN	1100 TREVILIAN WAY	Nightingale PS (CSO 015 or South Fork CSOs) Nightingale PS (CSO 015 or South Fork CSOs)
METROPOLITAN PARKS CREASON DISTRICT	1297 TREVILIAN WAY	Nightingale PS (CSO 015 or South Fork CSOs)
METROPOLITAN PKS NORTON POOL	4201 LEE AVE	Nightingale PS (CSO 015 or South Fork CSOs)
NORTON AUDUBON HOSPITAL COLUMBIA, O	1 AUDUBON PLAZA DR	Nightingale PS (CSO 015 or South Fork CSOs)
PREMIUM FOIL PRODUCTS CO.	4500 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
RITE-WAY EQUIPMENT CO INC	4705 ROBARDS LN	Nightingale PS (CSO 015 or South Fork CSOs)
RYDER TRUCK RENTAL, INC. SCHMITT AVEN SAFETY MOVING STORAGE		Nightingale PS (CSO 015 or South Fork CSOs)
SPEEDWAY SUPERAMERICA LLC SUPERAM	3410 ROBARDS CT	Nightingale PS (CSO 015 or South Fork CSOs)
SPEEDWAY SUPERAMERICA LLC SUPERAM	4230 POPLAR LEVEL PD	Nightingale PS (CSO 015 or South Fork CSOs)
UHL TRUCK LEASE	4300 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs) Nightingale PS (CSO 015 or South Fork CSOs)
UNITED STATES POSTAL SERVICE	1420 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
A & A MECHANICAL, INC.	1101 ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
A.R.E. MACHINE PRODUCTS	209 EILER AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
A-1 ORNAMENTAL IRON INC	4653 ASTOR RD	Northern Ditch & SW Sanitary Service Area (CSO 015
AAA COOPER TRANSPORTATION	3906 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
ACCURITE MACHINE AND MANUFACTURING ACTION TRANSMISSIONS CHANGED ADDRE	4421 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ADI	3908 PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ADVANCED ENGINE EXCHANGE	1006 ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
ADVANCED MECHANICAL SERVICES	4644 ILLINOIS AVE	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
AIR DYNAMICS INC.	4016 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
AIR PRODUCTS AND CHEMICALS 4505 PROD	4505 PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ALL STAR TRUCKING CO HOLBERTTRUCKIN	4619 ASTOR RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ALL TUNE & LUBE	3305 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
	4642 PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015
AMAZING PRODUCTS  AMERICAN ROOFING AND METAL CO. 4610 R	6214 STRAWBERRY LN	Northern Ditch & SW Sanitary Service Area (CSO 015
	6313 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
	5534 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
	4627 PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
ANHEUSER-BUSCH INCORPORATED	4400 PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
APOLLO OIL OF LOUISVILLE	1508 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
	1113 ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
ASTACME COATINGS BUILDINGS	1001 ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
AST/ACME COATINGS & LININGS TECHNOLO ATLANTIC AVIATION SERVICES		Northern Ditch & SW Sanitary Service Area (CSO 015
	1131 STANDIFORD AVE 6300 FERN VALLEY PASS	Northern Ditch & SW Sanitary Service Area (CSO 015
	1820 GARRS LN	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
AUTO ZONE 3940 DIXIE HWY.	3940 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
B A MERCHANT SERVICES	1231 DURRETT LN	Northern Ditch & SW Sanitary Service Area (CSO 015
	4839 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BARNES AUTO SERVICE	3730 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
BELLSOUTH TELECOMMUNICATIONS, INC. E	4711 ROBARDS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
BELLSOUTH TELECOMMUNICATIONS, INC. S BENEKE WIRE COMPANY BENEKE SPECIALT	2201 AUBURN DR	Northern Ditch & SW Sanitary Service Area (CSO 015
	4001 CANE RUN RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BILL WHITE'S KEYSTOP 4703 DIXIE HIGHWA	4703 DIXIF HWY	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
BIO ADDITIVES, LLC	4820 JENNINGS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
BLANCHARD'S AUTO SERVICE	4106 E INDIAN TRL	Northern Ditch & SW Sanitary Service Area (CSO 015
	402 MACLEAN AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
	1101 INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015
	1420 HUGH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
BRYAN EQUIPMENT, INC. MOVED FROM 4004	207 EILER AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015
	1620 BITTERSWEET RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
CADILLAC SIGN & DECAL	1646 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
CAMP TAYLOR FIRE PROTECTION DIST.	649 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CARDINAL MANUFACTURING 2	225 EILER AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
	3400 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
	55 DOWNES TER	Northern Ditch & SW Sanitary Service Area (CSO 015
	520 MASON DIXON LN	Northern Ditch & SW Sanitary Service Area (CSO 015
A	825 APPLETON LN 811 PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CHURCHILL DOWNS TRACKSIDE CHURCHIL		Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
CLIFFORD'S INC PAINT & BODY SHOP 4432 F4	432 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
CLIFFORD'S-RADIATOR & AIR CTNG SCV SE 4		Northern Ditch & SW Sanitary Service Area (CSO 015
CLINTON KORPHAGE NURSERY 1	823 HEATON RD	Northern Ditch & SW Sanitary Service Area (CSO 015
COFFEY'S, INC. 4534 POPLAR LEVEL ROAD (4	534 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
COMMONWEALTH DODGE 6	408 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
COMMONWEALTH ROOFING CORP 1	449 HUGH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015

Company Name	97 554554	Address	Tributary to CSO#
COOK & REEVES CARS, INC. DBA SUPERIO	R 4734	The state of the s	Northern Ditch & SW Sanitary Service Area (CSO 015
CORPORATE HANGER LLC		STANDIFORD CT	Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
COTTMAN TRANSMISSION 3121 FERN VALL	E 322	FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CRAWFORD EXCAVATING		HUGH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
CUNAGINS AUTOMOTIVE		ASTOR RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CUNDIFF CONSTRUCTION COMPANY, INC.	5800	POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CUSTOM PACKAGING, INC.	4841	JENNINGS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
D & F ELECTRIC, INC.	4616	BITTERSWEET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
D.P.W. SERVICES DERBY PRESSURE WAS			Northern Ditch & SW Sanitary Service Area (CSO 015
DACCO/ DETROIT OF KENTUCKY DAVIS MEDICAL		PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DAWN FOOD PRODUCTS		PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DELI DELIGHTS FOOD SERVICE	6303	KENJOY DR GILMORE INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015
DEPENDABLE AUTO REPAIR		POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DERBY WELDING & WELDING MACHINE CO	1 4624	PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
DIXIE WAREHOUSE & CARTAGE BUILDING 1	(7929	NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
DIXIE WAREHOUSE & CARTAGE CO	6406	GRADE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
DIXIE WAREHOUSE SERVICES HAZARDOUS	7735	NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
DO ALL INC.	3309	GILMORE INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015
DOVER ELEVATOR COMPANY 5670 SHEPHE			Northern Ditch & SW Sanitary Service Area (CSO 015
EVERGREEN CEMETERY		PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
FABRICATED METALS CORPORATION	6300	KENJOY DR	Northern Ditch & SW Sanitary Service Area (CSO 015
FAURECIA EXHAUST SYSTEMS LOUISVILLE	14415	E INDIAN TRL	Northern Ditch & SW Sanitary Service Area (CSO 015
FEDERAL AVIATION ADMINISTRATION LOUIS FEDERAL EXPRESS CORP. SORT WAREHOU	4857	CRITTENDEN DR	Northern Ditch & SW Sanitary Service Area (CSO 015
FIRST STOP FOOD MART (MORE 4 LESS)		POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
FIVE STAR FOOD MART 2720 CRUMS LANE		CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
FLEET MAINTENANCE USA		BITTERSWEET RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
FORD MOTOR COMPANY LOUISVILLE ASSET	v 2000	FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
FOURTH STREET AUTO	5109	PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
GENERAL ELECTRIC CONSUMER PRODUCT	4000	BUECHEL BANK RD	Northern Ditch & SW Sanitary Service Area (CSO 015
GRAND AIRE EXPRESS		STANDIFORD AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
GRAPHIC SCIENCES INC.		GILMORE INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015
GRAPHIC WORKS LLC	1504	PETUNIA AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
GREENLEE TEXTRON, INC. TEXTRON, INC. E	4601	E INDIAN TRL	Northern Ditch & SW Sanitary Service Area (CSO 015
H & S HARDWARE 5416 PRESTON HIGHWA			Northern Ditch & SW Sanitary Service Area (CSO 015
HABANA AUTO SERVICE HAZELWOOD CENTER		STRAWBERRY LN	Northern Ditch & SW Sanitary Service Area (CSO 015
HIGHLAND ROOFING COMPANY		OLD BLUEGRASS AVE PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
HIGHWAY MILLING CO.		EILER AVE	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
HIGHWAY STRUCTURES, INC. GUST K. NEW			Northern Ditch & SW Sanitary Service Area (CSO 015
HINES UNION SERVICE CENTER		PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
HOLIDAY INN	<del>,</del>	DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
HORTON FRUIT	4701	JENNINGS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
HOSTMANN-STEINBERG INC NATIONAL PRI			Northern Ditch & SW Sanitary Service Area (CSO 015
HS SPRING GROUP OF KY.		BUSINESS PARK DR	Northern Ditch & SW Sanitary Service Area (CSO 015
IKE'S AUTO SERVICE		SOUTHSIDE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
ILARI AUTO SERVICE, INC.		POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
INDUSTRIAL CARBIDE SAW & TOOL CORP IRVING MATERIALS INC. AMERICAN BUILDER	3810	BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
IVAN WARE & SON, INC.		PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
J.C. CIGARETTE OUTLET 2714 CRUMS LN.		CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
JAGS AUTOMOTIVE MIDAS AUTO SYSTEMS	4516	DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
JAGS AUTOMOTIVE DBA MIDAS AUTO SYSTE			Northern Ditch & SW Sanitary Service Area (CSO 015
JEFF COUNTY PUBLIC WKS SECOND DIST		NEWBURG RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JEFF/COUNTY TRANSPORTATION GARAGE	3528	NEWBURG RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JEFFERSON COUNTY PUBLIC SCHOOLS NIC	3686	PARTHENIA AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
JEFFERSON COUNTY PUBLIC WORKS HEAV	3528	NEWBURG RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JEFFERSON COUNTY RECYCLING CENTER #		NEWBURG RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JEWELL ENGINEERING & MFG CO INC			Northern Ditch & SW Sanitary Service Area (CSO 015
JIFFY LUBE 6508 PRESTON HWY, BLUEGRAS JIM BROWN AUTO SALES	<u> </u>		Northern Ditch & SW Sanitary Service Area (CSO 015
JIM BROWN AUTO SALES JIM VINCENT BODY SHOP			Northern Ditch & SW Sanitary Service Area (CSO 015
JUNGBERT CORPORATION	7141		Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
KEN TOWERY FIRESTONE 6919 SOUTHSIDE			Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
KENTUCKIANA AUTO STORAGE POOL			Northern Ditch & SW Sanitary Service Area (CSO 015
KENTUCKIANA LAWN CARE INC.	4441		Northern Ditch & SW Sanitary Service Area (CSO 015
KENTUCKY AIR NATIONAL GUARD	1101	GRADE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
KENTUCKY ASSOCIATION OF ELECTRICAL C			Northern Ditch & SW Sanitary Service Area (CSO 015
KIRK NATIONALEASE	3939		Northern Ditch & SW Sanitary Service Area (CSO 015
		7TH STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
KUSTES HYDRAULICS		PINEWOOD RD	Northern Ditch & SW Sanitary Service Area (CSO 015
LEWIS CONCRETE CONSTRUCTION	1330		Northern Ditch & SW Sanitary Service Area (CSO 015
LOSE PROS. 4522 POPI AD LEVEL PR			Northern Ditch & SW Sanitary Service Area (CSO 015
			Northern Ditch & SW Sanitary Service Area (CSO 015
-OUNTELL OCULER WIFG CO.	1035	NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015

LOUSVILLE GAS DE ELECTRIC COMENANY AUBSIDE ENTERPRISE DR  NORTHER DE PRISED CONTRESS AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSME	SAMPLE STATE OF THE STATE OF TH	- mineral and	TOTAL STATE OF THE	
LOUISVILLE FIRE DEPARTMENT ENOIRE 12 - 4555 MANSLICK RD  Northern DIOLA & SW Sanlary Service Area (CSO 01s)  LOUISVILLE GAS & ELECTRIC COMPANY SOLIGIBLE SERVICE AREA (CSO 01s)  LOUISVILLE GAS & ELECTRIC COMPANY SOLIGIBLE SERVICE AREA (CSO 01s)  LOUISVILLE GAS & ELECTRIC COMPANY SOLIGIBLE SERVICE AREA (CSO 01s)  LOUISVILLE GAS & ELECTRIC COMPANY SOLIGIBLE SERVICE AREA (CSO 01s)  LOUISVILLE GAS & ELECTRIC COMPANY SOLIGIBLE SERVICE AREA (CSO 01s)  LOUISVILLE SERVICE AREA (CSO 01s)  MORTHON DIAL & SW Sanlary Service Area (CSO 01s)  MORTHON DIAL	Company Name	(Carantee)	Addres <b>s</b>	Tributary to CSO#
LOUISVILLE GAS & ELECTRIC COMPANY SOLIDES   ENTERPRISE DR				
LOUSVILLE GAS & ELECTRIC COMPANY SOLIGEAL JENNINGS LN   Northern Ditch & SW Sanitary Service Area (CSO 915				
LOUSVILLE METRO PUBLIC WORKS SECON \$282   NEWBURG RD   Northern Ditch & SW Sanitary Service Area (CSO 115 LV) DISTRIBUTIONS NO.				
LOUSTRUPY OF SINC		_		
LV DISTRIBUTORS NIC  AMCS CONVENIENCE STORE DBA BIG POD14100 DIXIE HWY Northern Dixth & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG POD1400 PRESTON HWY Northern Dixth & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG POD1400 PRESTON HWY Northern Dixth & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG POD1400 PRESTON HWY Northern Dixth & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG POD1400 PRESTON HWY Northern Dixth & SW Sanitary Service Area (CSO 015 MARTINA SUCDIONALD CORES ASTOR KOASSA (ASSOCIATION ASSOCIATION A				
MACS CONVENIENCE STORE DBA BIG FOOL <sup>1400</sup> PERESTON HWY Northern Ditch & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG FOOL <sup>1400</sup> PERESTON HWY Northern Ditch & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG FOOL <sup>1400</sup> PERESTON HWY Northern Ditch & SW Sanitary Service Area (CSO 015 MACS CONVENIENCE STORE DBA BIG FOOL <sup>1400</sup> PERESTON HWY Northern Ditch & SW Sanitary Service Area (CSO 015 MACTIN & MCCONALD CO. 4600 ASTOR ROA-4650 ASTOR		4		
MACS CONVENIENCE STORE DBA BIG POOT   ASSET   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 MACS CONVENIENCE STORE DBA DAIRY MISSION   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 MACS CONVENIENCE STORE DBA DAIRY MISSION   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 MACS CONVENIENCE STORE DBA DAIRY MISSION   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 MACS CONVENIENCE STORE DBA DAIRY MISSION   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 MACS CONVENIENCE STORE DBA DAIRY MISSION   PRESTON HWY   Northern Ditta & SW Santary Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   MISTORPH DITA & SW Santary Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   MISTORPH DITA & SW Santary Service Area (CSO 015 METROPOLITAN PLAS WERE STERN POOL   MISTORPH DITA & SW Santary Service Area (CSO 015 METROPOLITAN PLAS WERE STERN PLAS WERE STERN POOL   MISTORPH DITA & SW Santary Service Area (CSO 015 METROPOLITAN PLAS WERE STERN PROBLEM PLAS WERE STERN PLAS W				
MAC'S CONVENIENCE STORE DBA BIG FOOT 3400 FERRI VALLEY RD  MAC'S CONVENIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE STORE PRESTON HVW  MAC'S CONVENIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE COMPANIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE COMPANIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE COMPANIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE COMPANIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVENIENCE STORE DBA DAIRY MISOTI PRESTON HVW  MAC'S CONVEN		·		
MACTS CONVENIENCE STORE DBA DAIRY Mil 5001   PRESTON HWY   Northern Ditch & SW Santlary Service Area (CSO 015 MCW GRAPHICS IMC WEB GRAPHICS   MCW GRAPHIC				
MARTIN & MCDONALD CO. 4690 ASTOR ROA 4690   ASTOR RD				
MECHEY SALOY CARE  METROPOLITAN LINCOLM MERCURY IN 3655 DIKE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN LINCOLM MERCURY IN 3655 DIKE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN LINCOLM MERCURY IN 3655 DIKE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN LINCOLM MERCURY IN 3655 DIKE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN) SEWER DISTRICT NORTHER 341 MAG BRAE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN) SEWER DISTRICT NORTHER 341 MAG BRAE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN) SEWER DISTRICT NORTHER 341 MAG BRAE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN) SEWER DISTRICT NORTHER 341 MAG BRAE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 METROPOLITAN SEWER DISTRICT NORTHER SERVICE AND THE METADOLITAN SEWER DISTRICT NORTHER				
MEDLEYS AUTO CARE  METROPOLITAN LINCOLM MERCURY INC 6956957 PRESTON HWY  Northern Ditch & SW Senitary Service Area (CSO 115 METROPOLITAN PKS WESTERN POOL 2501 ROCKFORD LN Northern Ditch & SW Senitary Service (CSO 116 METROPOLITAN PKS WESTERN POOL 2501 ROCKFORD LN Northern Ditch & SW Senitary Service (CSO 116 METROPOLITAN PKS WESTERN POOL 2501 ROCKFORD LN Northern Ditch & SW Senitary Service Area (CSO 116 MICHED LINE OF THE COLOR PRESTON HWY Northern Ditch & SW Senitary Service Area (CSO 116 MICHED LINE OF THE COLOR PRESTON HWY Northern Ditch & SW Senitary Service Area (CSO 116 MICHED LINE OF THE COLOR PRESTON HWY NORTHERN DITCH & SW Senitary Service Area (CSO 116 MICHED LINE ASW Senitary Service Area (CSO 116 MICHED LINE		_		
METROPOLITAN PLEW SUBSTREAM POOL 2016   ROCKFORD LN   Northern Ditch & SW Sanitary, Service Area (CSO 015   METROPOLITAN SEWRER DISTRICT NORTHER) 341   MAC BRARE RD   Northern Ditch & SW Sanitary, Service Area (CSO 015   METROPOLITAN SEWRER DISTRICT NORTHER) 341   MAC BRARE RD   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE PROTIT TRANSMISSION GENTER   1400   HUGH AVE   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE PROTIT TRANSMISSION GENTER   1400   HUGH AVE   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE PROTIT TRANSMISSION GENTER   1400   HUGH AVE   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE PROTIT TRANSMISSION GENTER   1400   HUGH AVE   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE PROTIT TRANSMISSION GENTER   1400   HUGH AVE   Northern Ditch & SW Sanitary, Service Area (CSO 015   MIKE MIKE AVE AVE AVE AVE AVE AVE AVE AVE AVE AV		_		
METROPOLITAN SEWER DISTRICT NORTHEE 141 MAC BRAE RD MICHEL TREE CO. TIRES PLUS - 1610 BRESTGIOB PRESTON HWY Northern Ditch & SW Sanilary, Service Area (CSO 015 MIKE PROTT TRANSMISSION CENTER 1400 HUGH AVE Northern Ditch & SW Sanilary, Service Area (CSO 015 MIKE PROTT TRANSMISSION CENTER 1400 HUGH AVE Northern Ditch & SW Sanilary, Service Area (CSO 015 MIKE PROTT TRANSMISSION CENTER 1400 HUGH AVE Northern Ditch & SW Sanilary, Service Area (CSO 015 MICH PROTT TRANSMISSION CENTER 1400 HUGH AVE NORTHS ELECTRIC COMPANY INC. 1403 PRODUCE RD Northern Ditch & SW Sanilary, Service Area (CSO 015 MIR HUFFLER RZ AUTO UNLIMITED SERVICE 4915 POPLAR LEVEL RD Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 Northern Ditch & SW Sanilary, Service Area (CSO 015 NORTHERN DITCH) PROTTED TO A CONTROL OF THE AVERAGE AND A CONTROL OF THE AVERAG		6507		
MICHEL TIRE CO. TIRES PLUS - 108 PRESTOR 108  MICHELL MOORE ENTERRISES SPECIAL Infa63  ASTOR RD  MICHELL MOORE ENTERRISES SPECIAL Infa63  ASTOR RD  MOTHORIBER & SW Sanitary Service Area (CSO 915  MICHELL MOORE ENTERRISES SPECIAL Infa63  ASTOR RD  MOTHORIBER & SW Sanitary Service Area (CSO 915  MORRISE ELECTRIC COMPANY INC.  3933  PREDOUGE RD  MORRISE ELECTRIC COMPANY INC.  3933  PREDOUGE RD  MORRISE ELECTRIC COMPANY INC.  3933  PREDOUGE RD  MORRISE ELECTRIC COMPANY INC.  3935  PREDOUGE RD  MOTHORIBER & SW Sanitary Service Area (CSO 915  MOTHORIBER & SW Sanitary Service Area (CSO 915  MOTHORIBER & SW Sanitary Service Area (CSO 915  MATIONS RENT JOB RENTALS & SALES  3916  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3916  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3916  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3917  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3917  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3917  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3918  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3918  MATIONS RENT JOB RENTALS & SALES  3919  MATIONS RENT JOB RENTALS & SALES  3919  MATIONS RENT JOB RENTALS & SALES  3919  MATIONS RENT JOB RENTALS & SALES  3910  SENDING SERVICE AREA (CSO 915  MATIONS RENT JOB RENTALS & SALES  3910  SENDING SERVICE AREA (CSO 915  PARISHS TRACE  MATIONS RENT JOB RENTALS & SALES  3910  PERSON RENTALS RENTALS & SALES  3919  PARISHS TRACE  3921  PREDOUGE RD  MOTHORIBE DICK & SW Sanitary Service Area (CSO 915  PEP BOYS AUTOMOTIVE SUPERCENTER 806 5607  PRESTON HOW  MOTHORIBER & SW Sanitary Service Area (CSO 915  PEP BOYS AUTOMOTIVE SUPERCENTER 806 5607  PRESTON HOW  MOTHORIBER & SW Sanitary Service Area (CSO 915  PEP BOYS AUTOMOTIVE SUPERCENTER 806 5607  PRESTON HOW  MOTHORIBER & SW Sanitary Service Area (CSO 915  PEP BOYS AUTOMOTIVE SUPERCENTER 806 5607  PRESTON HOW  MOTHORIBER & SW Sanitary Service Area (CSO 915  PEP BOYS AUTOMOTI	METROPOLITAN PKS WESTERN POOL	2501	ROCKFORD LN	Northern Ditch & SW Sanitary Service Area (CSO 015
MIKE PROTT TRANSMISSION CENTER  MICHELL MODRE ENTERPRISES SPECIAL HASS ASTOR RD  Northern Ditch & SW Saniary Service Area (CSO 015 MONTCOMERY CHEVROLET  MONTCOMERY CHEVROLET  S225 PRESTON HWY  Northern Ditch & SW Saniary Service Area (CSO 015 MONTCOMERY CHEVROLET  MR. MUFFLER #2 AUTO UNLIMITED SERVICE4915  POPULAR LEVEL RD  MR. MUFFLER #2 AUTO UNLIMITED SERVICE4915	METROPOLITAN SEWER DISTRICT NORTHER	341	MAC BRAE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
MITCHELL MOORE ENTERPRISES SPECIAL IM4835 ASTOR RD	MICHEL TIRE CO. TIRES PLUS - 6108 PRESTO	6108	PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
MONTGOMERY CHEVROLET   5225 PRESTON HWY   Northern Ditch & SW Sanitary Service Area (CSO 015 MR MUFFLER #2 AUTO UNLIMITED SERVICE 4915 POPUAR LEVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 MR MUFFLER #2 AUTO UNLIMITED SERVICE 4915 POPUAR LEVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 NEILL-AWIELLE - STEEL PLANT 1 - 4575 JEN14675   JEN14675   JENNINGS IN   Northern Ditch & SW Sanitary Service Area (CSO 015 NEILL-AWIELLE - STEEL PLANT 1 - 4575 JEN14675   JENNINGS IN   Northern Ditch & SW Sanitary Service Area (CSO 015 NEILL-AWIELLE - STEEL PLANT 1 - 4575 JEN14675   JENNINGS IN   Northern Ditch & SW Sanitary Service Area (CSO 015 NOLAN RAY ROOFING CO.   4606   ILLINOIS AVE   Northern Ditch & SW Sanitary Service Area (CSO 015 NOLAN RAY ROOFING CO.   4606   ILLINOIS AVE   Northern Ditch & SW Sanitary Service Area (CSO 015 PARRISH TRACTOR   3921 PRODUCE RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PER BOYS AUTOMOTIVE SUPERCENTER \$605607   RESTON HWY   Northern Ditch & SW Sanitary Service Area (CSO 015 PEP BOYS AUTOMOTIVE SUPERCENTER \$605607   RESTON HWY   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENIOCAT HIN C 4339 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENIOCAT HIN C 4339 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENIOCAT HIN C 4339 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENICAT HIN C 4339 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENICATE HIN C 4304 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENICATE HIN C 4304 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENICATE HIN C 4304 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPO ARCHENICATE HIN C 4304 POPUAR I EVEL RD   Northern Ditch & SW Sanitary Service Area (CSO 015 POPUAR I EVEL RD   NORTHERN DITCH ARCHENICATE HIN C 4304 POPUAR I EVEL RD   Northern Ditch & SW Sanitar	MIKE PROTT TRANSMISSION CENTER	1400	HUGH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
MORRIS ELECTRIC COMPANY INC.   3933 PRODUCE RD   Northern Ditch & SW Sanitary Service Area (CSO 015 NATIONS RENT JOB RENTALS & SALES   3916   BISHOP LN   Northern Ditch & SW Sanitary Service Area (CSO 015 NATIONS RENT JOB RENTALS & SALES   3916   BISHOP LN   Northern Ditch & SW Sanitary Service Area (CSO 015 NELL-LAVINELE - STEEL PLANT 1 - 4575 JENNINGS LN   Northern Ditch & SW Sanitary Service Area (CSO 015 NELL-CAVINELE - STEEL PLANT 1 - 4575 JENNINGS LN   Northern Ditch & SW Sanitary Service Area (CSO 015 NELSON B. DOONE CO., INC   6330   STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015 PAPERCONE CORP.   3200 FERN VALLEY RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PAPERCONE CORP.   3200 FERN VALLEY RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PAPERCONE CORP.   3200 FERN VALLEY RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PENSKE TRUCK LEASING HERTZ-PENSKET 14300 PETERSBURG RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PENSKE TRUCK LEASING HERTZ-PENSKET 14300 PETERSBURG RD   Northern Ditch & SW Sanitary Service Area (CSO 015 PETERSBURG NOR-KENDWORTH INC 4330 POPU4330 POPU43	MITCHELL MOORE ENTERPRISES SPECIAL I	4635	ASTOR RD	Northern Ditch & SW Sanitary Service Area (CSO 015
MR. MUFFLER #2 AUTO UNLIMITED SERVICE 4915 POPUAR LEVEL #RD NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN NORTHOMS DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PERSET DEATH JOB RENTALS & SALES   3916 BISHOP LIN PROGRESS RAIL SERVICE   3000 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PURINA MILLS, INCORPORATED   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PURINA MILLS, INCORPORATED   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3900 INDUSTRIAL BLVD   3916 BISHOP LIN PROGRESS RAIL SERVICE   3916 BISHOP LIN PROG	MONTGOMERY CHEVROLET	5325	PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
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NELSON B. BOONE CO, INC				
NOLAM RAY ROOFING CO		_		
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PRESTON RADIATOR & AIR CONDITIONING   5212   PRESTON HWY   Northern Ditch & SW Sanitary Service Area (CSO 015   PURINA MILLS, INCORPORATED   3001 INDUSTRIAL BLVD   Northern Ditch & SW Sanitary Service Area (CSO 015   QUALITY CONTAINERS   3001 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   QUALITY CONTAINERS   3001 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   QUALITY CONTAINERS   3001 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RAPPS AUTO BODY   QUISVILLE BUILDING (201 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RAPS AUTO BODY   CONTAINERS   201 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   Northern Ditch & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   NORTHERN DITCH & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   NORTHERN DITCH & SW Sanitary Service Area (CSO 015   RC-CANADA DRY BOTTLING CO.   6207 STRAWBERRY LN   NORTHERN DITCH & SW Sanitary Service Area				
PROGRESS RAIL SERVICE  3001 INDUSTRIAL BLVD  Northern Ditch & SW Sanitary Service Area (CSO 015 PURINA MILLS) INCORPORATED  3001 INDUSTRIAL BLVD  Northern Ditch & SW Sanitary Service Area (CSO 015 QUALITY CONTAINERS  3000 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 015 QUALITY CONTAINERS  3000 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RAYTHEON COMPANY) (OUISVILLE BUILDING 8201 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 016 RAYTHEON COMPANY) (OUISVILLE BUILDING 8201 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 016 RAYTHEON COMPANY) (OUISVILLE BUILDING 8201 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 016 REPUBLIC SERVICES OF KENTUCKY TRANSI 4446 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015 REPUBLIC SERVICES OF KENTUCKY TRANSI 4446 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015 REVOLDS METALS COMPANY PLANT NO. 14301 PRODUCE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 RIVERSIDE PAVING & CONTRACTING  REVOLDS METALS COMPANY PLANT NO. 14301 PRODUCE RD  Northern Ditch & SW Sanitary Service Area (CSO 015 RIVERSIDE PAVING & CONTRACTING  203 EILER AVE  Northern Ditch & SW Sanitary Service Area (CSO 015 RIVERSIDE PAVING & CONTRACTING  204 ELER AVE  Northern Ditch & SW Sanitary Service Area (CSO 015 ROCKET CLEANERS  405 DIXIE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 ROCKET CLEANERS  405 DIXIE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 SAFETY KLEEN CONTRACTORS INC  304 STREE  305 TIRE  306 DIXIE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 SAMS AUTON SANS AUTON SERVICE AREA (CSO 015 SAMS AUTON SANS AUTON SERVICE AREA (CSO 015 SAMS AUTON SANS AUTON SERVICE AREA (CSO 015 SCOTT-GROSS CO  305 STREE  306 DIXIE HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 SCOTT-GROSS CO  307 GROSS CO  308 PRESTON HWY  Northern Ditch & SW Sanitary Service Area (CSO 015 SCOTT-GROSS CO  309 POPLAR LEVEL RD  301 NORTHERN DITCH & SW Sanitary Service Area (CSO				
PURINA MILLS, INCORPORATED  3001 INDUSTRIAL BLVD  Northern Ditch & SW Sanitary Service Area (CSO 015 QUICK FUEL  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 QUICK FUEL  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RAPS AUTO BODY  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RAPS AUTO BODY  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RAPS AUTO BODY  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RAPS AUTO BODY  3700 BISHOP LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RC-CANADA DRY BOTTLING CO.  3700 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RE-CANADA DRY BOTTLING CO.  3700 STRAWBERRY LN  Northern Ditch & SW Sanitary Service Area (CSO 015 RE-VBLO) SERVICES OF KENTUCKY TRANSI 4446 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015 RE-VBLO) SERVICES OF KENTUCKY TRANSI 4446 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015 REVBLO) SERVICES OF AUTO SERVICES				
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SPEEDWAY SUPERAMERICA LLC SUPERAME 3915 DIXIE HWY Northern Ditch & SW Sanitary Service Area (CSO 015			3RD STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
SPEEDWAY SUPERAMERICA LLC SUPERAME 6821 SOUTHSIDE DR Northern Ditch & SW Sanitary Service Area (CSO 015				
	SPEEDWAY SUPERAMERICA LLC SUPERAME	6821	SOUTHSIDE DR	Northern Ditch & SW Sanitary Service Area (CSO 015

### TABLE 4-4 HMPC PLANS WITHIN MFWTP SERVICE AREA

Company Name	Address	Tributary to CSO#
SPORTPAINT PLANT #2	4015 PRODUCE RD	
STAUBLE MACHINE & TOOL COMPANY, INC.		Northern Ditch & SW Sanitary Service Area (CSO 015
STEWART MECHANICAL ENTERPRISES INC.		Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
STRONG HOLD PRODUCTS	6210 STRAWBERRY LN	
SUBURBAN WRECKER SERVICE	1006 INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
SUD-CHEMIE INC. SOUTH PLANT UNITED CA		Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFTY OIL COMPANY 4243 PRESTON	4243 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFTY SERVICE STA. #188 5389 NEW CUT		Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFTY SERVICE STATION #22	3611 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
SYSCO LOUISVILLE FOOD SVC CO 7705 NA		Northern Ditch & SW Sanitary Service Area (CSO 015
T.B.A. INC.	6700 ENTERPRISE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
TEXACO XPRESS LUBE CORPORATE NAME		Northern Ditch & SW Sanitary Service Area (CSO 015
THORNTON FOOD MART #96, 4516 POPLAR		Northern Ditch & SW Sanitary Service Area (CSO 015
THORNTON OIL CORP # 41, 5318 PRESTON I		Northern Ditch & SW Sanitary Service Area (CSO 015
THORNTON OIL CORP #21, 2700 FERN VALLE	2700 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
THORNTON OIL CORP NO 50 4520 DIXIE HIG	4520 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
TODD'S RADIATOR SERVICE 2005 CRUMS L		Northern Ditch & SW Sanitary Service Area (CSO 015
TOM BROWN CONSTRUCTION CO.	7965 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
TOM'S AUTOMOTIVE SERVICE	5900 SHEPHERDSVILLE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
TONY'S BRAKE AND ALIGNMENT SERVICE	4800 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
TOP WORX GENERAL EQUIPMENT & MFG C		Northern Ditch & SW Sanitary Service Area (CSO 015
TOWN & COUNTRY FORD INC 6015 PRESTO		Northern Ditch & SW Sanitary Service Area (CSO 015
TRIDEN CONSTRUCTION SUPPLY, INC.	4504 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
TYRA ROOFING & SHEET METAL COMPANY	3921 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
U.S. ARMY RESERVE CENTER	1101 GRADE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
U-HAUL CENTER OF PRESTON STREET 4612		Northern Ditch & SW Sanitary Service Area (CSO 015
UNITED PARCEL SERVICE GRADE LANE FAC		Northern Ditch & SW Sanitary Service Area (CSO 015
UNITED RENTALS BLACKBURN TRAILER & E UNIVAR USA INC. VAN WATERS & ROGERS		Northern Ditch & SW Sanitary Service Area (CSO 015
USF HOLLAND	3906 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
UTILITY METALS DIV OF FABRICATED METAL		Northern Ditch & SW Sanitary Service Area (CSO 015
VALLEY CREST LANDSCAPE MANAGEMENT		Northern Ditch & SW Sanitary Service Area (CSO 015
VALVOLINE INSTANT OIL CHANGE 3912 SEV		Northern Ditch & SW Sanitary Service Area (CSO 015
VALVOLINE INSTANT OIL CHANGE 7401 THIF		Northern Ditch & SW Sanitary Service Area (CSO 015
VANTAGE CONTRACTING INC.	1119 ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
VEH-I-CYCLE INCORPORATED	4620 ASTOR RD	Northern Ditch & SW Sanitary Service Area (CSO 015
VINCENT QUALITY AUTO CARE	1357 GILMORE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
WEYERHAEUSER COMPANY	1360 DURRETT LN	Northern Ditch & SW Sanitary Service Area (CSO 015
WHITEHOUSE IRVIN H & SONS CO.	4600 JENNINGS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
WIMSATT BROTHERS INC	4400 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
WIRECRAFTERS INC.	6208 STRAWBERRY LN	Northern Ditch & SW Sanitary Service Area (CSO 015
WYNN STARR FOODS OF KENTUCKY DRYM		Northern Ditch & SW Sanitary Service Area (CSO 015
YA-HA, INC. DBA SHOPPER'S KWIK SHOP	1629 GAGEL AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
BELLSOUTH COMMUNICATIONS, INC. 3323 F		ORFM (CSO 211)
BELLSOUTH COMMUNICATIONS, INC. 9100 V		ORFM (CSO 211)
BOB SMITH CHEVROLET	10500 WESTPORT RD	ORFM (CSO 211)
BP OIL COMPANY - #62 10490 WESTPORT F		ORFM (CSO 211)
CONCORD CUSTOM CLEANERS LIME KILN LI		ORFM (CSO 211)
HOLIDAY CLEANERS, INC. JOHN COPE THE HOLIDAY MANOR BP OIL	2229 HOLIDAY MANOR CTR 4944 U.S. HIGHWAY 42	ORFM (CSO 211)  ORFM (CSO 211)
JEFF/COUNTY PUBLIC WKS FIRST DIST	595 N HUBBARDS LN	ORFM (CSO 211)
JEFFERSON COUNTY PUBLIC WORKS 1ST D		ORFM (CSO 211)
JEFFERSON COUNTY RECYCLING CENTER #		ORFM (CSO 211)
MAC'S CONVENIENCE STORE DBA DAIRY MA		ORFM (CSO 211)
MEIJER INC. STORE #164 4100 TOWNE CENT		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT BANCROP		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT HILLSDAL		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT MUDDY F		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT OLD BRO		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT PHOENIX		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT WEST GO		ORFM (CSO 211)
METROPOLITAN SEWER DISTRICT WOODS (		ORFM (CSO 211)
SERVICE PLUS CHEVRON # 4 HOLIDAY MAN		ORFM (CSO 211)
SPEEDWAY SUPERAMERICA LLC SPEEDWAY		ORFM (CSO 211)
SPEEDWAY SUPERAMERICA LLC SUPERAME		ORFM (CSO 211)
SPRINGDALE AUTOMOTIVE CENTER FREIBE		ORFM (CSO 211)
STANDARD COUNTRY CLUB	8208 STANDARD CLUB LN	ORFM (CSO 211)
SWIFTY SERVICE STATION # 274	4946 US HIGHWAY 42	ORFM (CSO 211)
THE HOME DEPOT, STORE #2305	10301 WESTPORT RD	ORFM (CSO 211)
	6701 FALLEN LEAF CIR	ORFM (CSO 211)
THORNTON	4950 BROWNSBORO RD	ORFM (CSO 211)
THORNTON OIL CORP NO. 57		ORFM (CSO 211)
VALVOLINE INSTANT OIL CHANGE	4935 BROWNSBORO RD	ORFM (CSO 211)
VANCE'S TRUE VALUE HARDWARE KROGER FUEL L-764	9200 WESTPORT RD	ORFM (CSO 211)
	9501 WESTPORT RD 4510 BELLS LN	ORFM (CSO 211) Rubbertown FM (None)
OVOTIVOL	TOTO DELLO LIN	Rapperowit Fat (MOIIE)

### TABLE 4-4 HMPC PLANS WITHIN MFWTP SERVICE AREA

Company Name		Address	Tributary to CSO#
DUPONT PERFORMANCE ELASTOMERS	4242	CAMP GROUND RD	Rubbertown FM (None)
E.I. DU PONT DE NEMOURS & CO., INC. DUP			Rubbertown FM (None)
ECKART AMERICA CORPORATION		CAMP GROUND RD	Rubbertown FM (None)
NOVEON, INC. PMG GROUP, & B.F.GOODRIG			Rubbertown FM (None)
ROHM AND HAAS CHEMICALS LLC -			<u> </u>
LOUISVILLE PLANTO			
	4300	CAMP GROUND RD	Rubbertown FM (None)
TRANS MONTAIGNE TERMINALING INC. ITA			Rubbertown FM (None)
ZEON CHEMICALS L.P.		BELLS LN	Rubbertown FM (None)
ABEL CONSTRUCTION COMPANY INC.		SIX MILE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
ABEL CONSTRUCTION COMPANY, INC. ABEI ACE EXTERMINATING CO.		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
ALL TUNE AND LUBE 2129 OLD SHEPHERDS			Southeast Diversion (CSO 015 or South Fork CSOs)  Southeast Diversion (CSO 015 or South Fork CSOs)
AMERICAN BRAKE CENTER		BASHFORD AVENUE CT	Southeast Diversion (CSO 015 or South Fork CSOs)
ARMY NATIONAL GUARD BUECHEL ARMOR'			Southeast Diversion (CSO 015 or South Fork CSOs)
AUTO ZONE 2231 HIKES LN.	2221	HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
AVERITT EXPRESS, INC.		MCCOLLUM CT	Southeast Diversion (CSO 015 or South Fork CSOs)
BACHMAN CHEVROLET		BLUEGRASS PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
BACHMAN SUBARU	1851		Southeast Diversion (CSO 015 or South Fork CSOs)
BACHMAN VOLKSWAGEN		BLUEGRASS PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
BELLSOUTH COMMUNICATIONS, INC. SOUT BELLSOUTH COMMUNICATIONS, INC. 7500			Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
BELLSOUTH TELECOMMUNICATIONS, INC. 7500			Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
BILL COLLINS FORD		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BILL ETSCORN BODY SHOP		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BILL ETSCORN'S SERVICE CENTER 2930 HI	2930	HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BILL'S BODY SHOP		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BOB HOOK CHEVY CENTER		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BRECKINRIDGE SQUARE APARTMENTS INS			Southeast Diversion (CSO 015 or South Fork CSOs)
BROWN JERRY SUPER SHELL		HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BUECHEL CHEVRON 3700 BARDSTOWN RD. BUECHEL FIRE DEPARTMENT	4101	BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
CHURCHILL PARK APARTMENTS	<u> </u>	CHURCHILL PARK DR	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
COMET 1 HOUR CLEANERS & LAUNDRY BAR		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
CRENSHAW EXCAVATING CO		BUECHEL BANK RD	Southeast Diversion (CSO 015 or South Fork CSOs)
CROWN CASTLE USA HIKES POINT LUV057		HUNSINGER LN	Southeast Diversion (CSO 015 or South Fork CSOs)
D G INDUSTRIES 3918 BARDSTOWN RD., BLI	3918	BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
DAIRY FARMER'S OF AMERICA DAIRYMAN, I	<del></del>		Southeast Diversion (CSO 015 or South Fork CSOs)
DERMATOPATHOLOGY CONSULTANTS PCS		GREENE WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
ENTECH FIRESTONE KEN TOWERY'S-NO 2		REYNOLDS LN	Southeast Diversion (CSO 015 or South Fork CSOs)
GREASE JOCKEY QUIK LUBE 3453 BRECKIN		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
HALLS BODY SHOP THE		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
HARPER'S CHEVRON SERVICE CENTER 421			Southeast Diversion (CSO 015 or South Fork CSOs)
HERITAGE ENVIRONMENTAL SERVICES, INC	4925	HELLER ST	Southeast Diversion (CSO 015 or South Fork CSOs)
IVY HILL CORPORATION COURIER GRAPHIC			Southeast Diversion (CSO 015 or South Fork CSOs)
		SIX MILE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
JR VOLVO 2211 BUECHEL AVE.		BUECHEL AVE	Southeast Diversion (CSO 015 or South Fork CSOs)
KEIL BROTHERS BRECKINRIDGE PLAZA GUL KIEL BROS. BP#55			Southeast Diversion (CSO 015 or South Fork CSOs)
KROGER STORE & FUEL L-346 3039 BRECKE		BARDSTOWN RD BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
KROGER STORE & FUEL L-367		TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
L. HAROLD HARPER'S CHEVRON #1, INC. 292			Southeast Diversion (CSO 015 or South Fork CSOs)
LOWE'S HOME IMPROVEMENT WAREHOUSE	2100	BASHFORD MANOR LN	Southeast Diversion (CSO 015 or South Fork CSOs)
MAC'S CONVENIENCE STORE DBA DAIRY MA	3927	BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
MAC'S CONVENIENT STORE DBA DAIRY MAF		SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
MEDLEY'S AUTO & TRUCK ALIGN SERVICE IN			Southeast Diversion (CSO 015 or South Fork CSOs)
MEIJER INC. STORE #160 4500 S. HURSTBOL			Southeast Diversion (CSO 015 or South Fork CSOs)
MEINEKE DISCOUNT MUFFLERS 4170 BARDS METROPOLITAN PKS WATTERSON POOL		BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
MICHEL TIRE CO, TIRES PLUS - 4515 BARDS"			Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
MID AMERICA AUTO AUCTION		NEWBURG RD	Southeast Diversion (CSO 015 or South Fork CSOs)
MR TRANSMISSION 3014 HUNSINGER LANE			Southeast Diversion (CSO 015 or South Fork CSOs)
MUFFLERS AND MORE		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
ONE HOUR MARTINIZING MERAH, INC.		HURSTBOURNE PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
RJF INTERNATIONAL		SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
S & S TRANSMISSION		BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
SAM SWODE / SATURN OF LOUISVILLE THE		BASHFORD AVENUE CT	Southeast Diversion (CSO 015 or South Fork CSOs)
SAM SWOPE / SATURN OF LOUISVILLE THE	∠ 5VV		Southeast Diversion (CSO 015 or South Fork CSOs)
	4 614		
SAM SWOPE BMW / LEXUS SWOPE AUTOMO SAM SWOPE CADILLAC 6 SWOPE AUTOCEN	4 SW	OPE AUTOCENTER DR	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
SAM SWOPE BMW/LEXUS SWOPE AUTOMO SAM SWOPE CADILLAC 6 SWOPE AUTOCEN' SAM SWOPE HONDA COURTESY SUZUKI	6 SW	OPE AUTOCENTER DR	Southeast Diversion (CSO 015 or South Fork CSOs)
SAM SWOPE CADILLAC 6 SWOPE AUTOCEN	6 SW 1 SW		
SAM SWOPE CADILLAC 6 SWOPE AUTOCEN' SAM SWOPE HONDA COURTESY SUZUKI SAM SWOPE MITSUBISHI SAM SWOPE PONTIAC-BUICK 7 SWOPE AUT	6 SW 1 SW 5 SW 7 SW	OPE AUTOCENTER DR OPE AUTOCENTER DR OPE AUTOCENTER DR OPE AUTOCENTER DR	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
SAM SWOPE CADILLAC 6 SWOPE AUTOCEN' SAM SWOPE HONDA COURTESY SUZUKI SAM SWOPE MITSUBISHI	6 SW 1 SW 5 SW 7 SW 3741 S	OPE AUTOCENTER DR OPE AUTOCENTER DR OPE AUTOCENTER DR OPE AUTOCENTER DR HURSTBOURNE PKY	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)

### TABLE 4-4 HMPC PLANS WITHIN MFWTP SERVICE AREA

Company Name	Address	Tributary to CSO#
SPEEDWAY SUPERAMERICA LLC SUPERAME	2965 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
STRUCTURAL DESIGN MANUFACTURING, INC	4520 SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
TEMPLE-INLAND INLAND PAPERBOARD AND	4201 OLD SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
THE HOME DEPOT	2600 S HURSTBOURNE PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
THORNTON OIL #24 3710 TAYLORSVILLE RO	3710 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
THORNTON OIL CORP #54	4154 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
	3726 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
U-HAUL CENTER OF BARDSTOWN 4128 BAR	4128 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
VALVOLINE INSTANT OIL CHANGE	3604 BUECHEL BYP	Southeast Diversion (CSO 015 or South Fork CSOs)
VALVOLINE INSTANT OIL CHANGE	3820 S HURSTBOURNE PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
VALVOLINE INSTANT OIL CHANGE 8601 CITA	8601 CITADEL WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
WAL-MART	1915 S HURSTBOURNE PKY	Southeast Diversion (CSO 015 or South Fork CSOs)
WEYERHAEUSER COMPANY FORMERLY WII	4400 PROGRESS BLVD	Southeast Diversion (CSO 015 or South Fork CSOs)
WINDSOR GATE COUNCIL OF CO-OWNERS	8601 AMBROSSE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
LOUISVILLE WATER COMPANY CRESCENT H	3018 FRANKFORT AVE	Water Co

Hospital Name:

Norton Audubon Hospital

Tributary to CSO: Nightengale PS (CSO015 or South Fork CSOs)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.094	0.117	0.134	0.153	0.096	0.153
BOD, mg/L	568	239	255	193	241	235
COD, mg/L	1433	418	477	442	409	586
TSS, mg/L	569	262	236	201	236	320
Silver, mg/L	0.0664	0.1180	0.0801	0.1620	0.0913	0.0878
Mercury, µg/L	0.2734	0.1525	0.2103	0.2038	0.3000	0.1000
Oil and Grease, mg/L	7	10	55	4	6	33
pH, standard units	7.7	7.0	7.2	7.3	7.6	7.5

Hospital Name:

Baptist Healthcare System East

Tributary to CSO:

Middle Fork Upstream of Breckenridge (Various)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.228	0.221	0.238	0.205	0.200	0.223
BOD, mg/L	170	193	199	315	210	217
COD, mg/L	304	315	344	672	290	273
TSS, mg/L	120	126	188	202	117	152
Silver, mg/L	0.0527	0.1280	0.1340	0.1270	0.0892	0.0370
Mercury, μg/L	0.1100	0.0974	0.2009	0.0772	0.1000	
Oil and Grease, mg/L	14	8	6	6		11
pH, standard units	7.2	6.5	7.1	7.0	7.0	7.4

Hospital Name:

Norton Healthcare Southwest

Tributary to CSO:

None - West County

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.016	0.027	0.002	0.056	0.032	0.027
BOD, mg/L	185	132	185	174	250	207
COD, mg/L	385	253	454	466	589	531
TSS, mg/L	174	134	201	132	207	205
Silver, mg/L	0.1007	0.1394	0.1387	0.0385	0.0753	0.0518
Mercury, μg/L	0.1933	0.1799	0.2000	0.0948	0.0150	
Oil and Grease, mg/L	9	5	5	5	6	15
pH, standard units	7.4	7.1	7.4	7.3	7.3	7.3

Hospital Name:

Kosair Children's Hospital

Tributary to CSO: CSO118

CSO118 (SFBGC)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.019	0.028	0.029	0.026	0.021	0.027
BOD, mg/L	173	193	146	194	184	185
COD, mg/L	402	339	404	478	464	337
TSS, mg/L	47	165	171	292	253	169
Silver, mg/L	0.0056	0.0667	0.0190	0.0161	0.0030	0.0013
Mercury, μg/L	0.6000	0.6173	0.3714	1.2011	0.5000	0.3333
Oil and Grease, mg/L	8	5	13	8	5	9
pH, standard units	7.9	7.8	7.6	7.6	7.4	7.5

Hospital Name: Tributary to CSO:

U of L Medical Center CSO118 (SFBGC)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.044	0.047	0.038	0.039	0.096	0.057
BOD, mg/L	221	209	186	183	180	337
COD, mg/L	504	502	427	464	350	879
TSS, mg/L	255	231	143	220	176	460
Silver, mg/L	0.0635	0.2772	0.0662	0.0083	0.0104	0.0079
Mercury, μg/L	0.4023	0.2462	0.2505	0.1806	0.2078	
Oil and Grease, mg/L	19	5	8	7	12	14
pH, standard units	7.7	7.8	7.6	7.5	7.9	7.6

Hospital Name:

Jewish Hospital

Tributary to CSO:

Ohio River

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.111	0.135	0.098	0.105	0.085	0.094
BOD, mg/L	405	315	168	158	200	135
COD, mg/L	768	607	431	326	354	253
TSS, mg/L	399	227	129	131	160	154
Silver, mg/L	0.1505	0.1843	0.0631	0.0100	0.0100	0.0102
Mercury, μg/L	0.1314	0.2158	0.1852	0.4000	0.1641	0.2000
Oil and Grease, mg/L	13	18	14	30	29	10
pH, standard units	7.4	7.4	7.5	8.1	7.6	7.3

Hospital Name:

Norton Alliant Pavilion

Tributary to CSO: CSO118 (SFBGC)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0,028	0.024	0.016	0.022	0:020	0.015
BOD, mg/L	180	252	177	284	250	201
COD, mg/L	489	478	474	507	587	420
TSS, mg/L	84	233	175	178	287	98
Silver, mg/L	0.0420	0.1017	0.0215	0.0281	0.0040	0.0063
Mercury, μg/L	0.4425	0.7259	0.4666	0.3685	0.5000	0.4667
Oil and Grease, mg/L	14	6	12	16	7	11
pH, standard units	7.8	7.3	7.4	7.6	7.3	7.4

Hospital Name: Tributary to CSO:

Norton Hospital Ohio River

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.030	0.033	0.044	0.035	0.048	0.074
BOD, mg/L	289	267	244	321	313	925
COD, mg/L	583	645	601	833	633	1684
TSS, mg/L	148	159	203	282	295	1536
Silver, mg/L	0.0271	0.0015	0.0014	0.0016	0.0013	0.0016
Mercury, µg/L	0.3875	0.3728	0.2704	0.3500	0.6902	0.2500
Oil and Grease, mg/L	8	13	16	18	9	21
pH, standard units	7.7	7.5	7.9	8.1	7.8	8.2

Hospital Name: Tributary to CSO:

Caritas Medical Center CSO015 (Ohio River)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.054	0.050	0.047	0.033	0.039	0.036
BOD, mg/L	218	177	169	257	283	223
COD, mg/L	488	378	352	493	600	450
TSS, mg/L	169	215	136	244	312	177
Silver, mg/L	0.0821	0.1358	0.0510	0.0823	0.0381	0.0494
Mercury, μg/L	0.2508	0.2381	0.1912	0.2217	0.0060	
Oil and Grease, mg/L	6	4	8	5	5	
pH, standard units	8.0	7.0	7.9	8.1	7.6	7.8

Hospital Name:

Kindred Hospital

CSO083 (SFBGC) Tributary to CSO:

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.016	0.011	0.014	0.017	0.024	0.015
BOD, mg/L	69	133	109	130	140	252
COD, mg/L	138	151	287	194	237	523
TSS, mg/L	167	67	174	220	167	324
Silver, mg/L	0.0150	0.0929	0.0444	0.0423	0.0714	0.0600
Mercury, μg/L	0.0750	0.1043	0.5766	0.1088	0.1000	
Oil and Grease, mg/L	8	2	6	4	1	5
pH, standard units	7.0	6.7	7.5	7.1	7.3	7.3

Hospital Name:

Norton Healthcare Suburban

Middle Fork Upstream of Breckenridge (Various) Tributary to CSO:

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.064	0.073	0.085	0.083	0.095	0.120
BOD, mg/L	336	178	144	97	95	112
COD, mg/L	446	428	347	198	274	254
TSS, mg/L	78	242	164	74	178	129
Silver, mg/L	0.0664	0.1180	0.0801	0.1620	0.0913	0.0878
Mercury, μg/L	0.5000	0.1815	0.1749	0.2869	0.2000	0.2000
Oil and Grease, mg/L	6	5	7	6	6	11
pH, standard units	8.3	7.2	7.9	7.8	7.6	7.8

Hospital Name: Tributary to CSO: Veterans Medical Center CSO154 (MuddyFBGC)

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD	0.100	0.086	0.110	0.128	0.134	0.151
BOD, mg/L	209	307	179	201	267	167
COD, mg/L	516	499	486	435	837	430
TSS, mg/L	199	186	225	188	339	222
Silver, mg/L	0.0553	0.2353	0.0642	0.0546	0.0098	0.0147
Mercury, µg/L	0.4833	0.4174	0.4160	0.4788	0.3536	0.0092
Oil and Grease, mg/L	50	5	13	9	9	14
pH, standard units	7.9	8,6	8.3	9.0	8.1	8.8

Hospital Name:

UofL HealthScienceCampus CSO118 (SFBGC)

Tributary to CSO:

Parameters	2000	2001	2002	2003	2004	2005
Flow, MGD						
BOD, mg/L	45	41	56	10		
COD, mg/L	172	78	117	30		
TSS, mg/L	30	31	21	10		
Silver, mg/L	0.0127	0.1000	0.0516	0.0100		
Mercury, μg/L	0.8000	0.8500	1.7031	0.8833		
Oil and Grease, mg/L	5	6	5	5		
pH, standard units	7.2	6.5	8.6	8.2		

TABLE 4-6
303(d) LIST OF WATERS FOR JEFFERSON COUNTY KENTUCKY

Stream Name	Reach (Mile)	Impaired Use(s)	Pollutant(s)	Suspected Sources	Status	
Beargrass Creek of Ohio River	River Mile 0.0 - 1.5	Aquatic Life (Nonsupport)	Metals (cadmium), Organic Enrichment/Low DO	Municipal Point Sources, Combined Sewer Overflows, Urban Runoff/Storm Sewers, Land Disposal	1st Priority	
Middle Fork Beargrass Creek of Beargrass Creek	River Mile 2.3 - 15.2	Aquatic Life (Nonsupport)	Organic Enrichment/Low DO	Municipal Point Sources, Industrial Point Sources, Urban Runoff/Storm Sewers, Land Disposal, Combined Sewer Overflows, Sanitary Sewer Overflos	Delisted	
Middle Fork Beargrass Creek of Beargrass Creek	River Mile 0.0 - 2.3	Aquatic Life (Nonsupport), Swimming (Nonsupport	Organic Enrichment/Low DO, Habitat Alteration (other than flow), Metals (cadmium), Pathogens	Combined Sewer Overflows, Urban Runoff/Storm Sewers, Hydromodification (Channelization)	1st Priority	
Middle Fork Beargrass Creek of Beargrass Creek	River Mile 2.3 - 15.2	Swimming (Nonsupport), Aquatic Life (Partial Support)	Pathogens, Metals (Cadmium)	Urban Runoff/Storm Sewer, Land Disposal, Combined Sewer Overflows, Sanitary Sewer Overflows	1st Priority	
Muddy Fork of Beargrass Creek	River Mile 0.0 - 6.9	Swimming (Nonsupport)	Pathogens	Industrial Point Sources, Municipal Point Sources, Urban Runoff/Storm Sewers, Land Disposal	1st Priority	
South Fork Beargrass Creek of Beargrass Creek	River Mile 0.0 - 2.7	Aquatic Life (Partial Support), Swimming (Nonsupport)	Metals (cadmium), Pathogens, Organic Enrichment/Low DO	Municipal Point Sources, Urban Runoff/Storm Sewers, Land Disposal, Combined Sewer Overflows, Sanitary Sewer Overflows	1st Priority	
South Fork Beargrass Creek of Beargrass Creek	River Mile 2.7 - 14.6	Swimming (Nonsupport), Aquatic Life (Partial Support)	Pathogens, Organic Enrichment/Low DO	Municipal Point Sources, Urban Runoff/Storm Sewers, Land Disposal, Combined Sewer Overflows, Sanitary Sewer Overflows	1st Priority	

TABLE 4-6
303(d) LIST OF WATERS FOR JEFFERSON COUNTY KENTUCKY

Stream Name	Reach (Mile)	Impaired Use(s)	Pollutant(s)	Suspected Sources	Status	
Ohio River River Mile 317.1 - 981.0		Fish Consumption (Partial Support)	Chlordane		Delisted	
Ohio River	River Mile 606.8 - 609.7	Swimming (Nonsupport), Fish Consumption (Partial Support)	Pathogens, PCBs, Dioxin	Combined Sewer Overflows, Urban Runoff/Storm Sewers, Land Disposal, Agriculture, Municipal Point Sources, Industrial Point Sources	1st Priority	
Ohio River	River Mile 617.6 - 629.9	Swimming (Nonsupport), Fish Consumption (Partial Support), Domestic Water Supply (Nonsupport)	Pathogens, PCBs, Dioxin	Combined Sewer Overflows, Urban Runoff/Storm Sewers, Land Disposal, Agri	1st Priority	
Ohio River	River Mile 567.6 - 606.8	Aquatic Life (Partial Support), Swimming (Partial Support)	Unknown, Pathogens	Unknown, Combined Sewer Overflows, Urban Runoff/Storm Sewers, Land Disposal, Agriculture, Municipal Point Sources	2nd Priority- Several Dilistings Requested	
Ohio River	River Mile 609.7 - 617.6	Swimming (Partial Support)	Pathogens	Combined Sewer Overflows, Urban Runoff/Storm Sewers, Land Disposal, Agriculture, Municipal Point Sources	2nd Priority- Several Dilistings Requested	

#### TABLE 4-7 NON-DOMESTIC DISCHARGERS OF INTEREST POLLUTANTS OF CONCERN SUMMARY DATA

<b>.</b>	Da		Flam AVC	DOD AVC I	1 TSS AVG	. I. Ammonio AVG	Cadmium AVG	3.350.000-000353-0443-655-00-65-055-0	Les estrations estrates de la company.
Co. Number	LIMS LocCode	Company Name	Flow AVG MGD	BOD AVG mg/L	mg/L	mg/L	mg/L	CSO Outfall	CSO Location
	P0000291	Opta Food Ingredients Loc 3	0.237091	13759	3157	no data	no data	CSO130	Beargrass Creek
8770	P0000127	D.D. Williamson	0,0544	5249	189	174	0.0213	CSO140	Beargrass Creek
		Kingfish - River Road *(5 data	0.000004	4074			0.0049	CSO154	Beargrass Creek
4411 9879	P0000259 P0000024	pts)	0,006204	4904 1 1331	* 4828 108	4	0,0016		Beargrass Creek
9415	P0000024 P0000067	Kent Feeds Puritan Cleaners	0.0268	1315	229	3		CSO117 149 179	Beargrass Creek
5415	7 5055001	Swift & Company Armour Food	0.0200						
240	P0000347	Company, Monfort Inc.	0.894861	1185	867	97		CSO130	Beargrass Creek
5513	P0000234	Forth Technologies - Bergman	0,1009	1085	265	27	0.0041	CSO117 149 179	Beargrass Creek
2050	P0000323	U of L Medical Center Outfall #1	0,0586	469	661	15	0.0015	CSO118	Beargrass Creek
3850	P0000323	O of Liviedical Center Oddair#1	0,0000	400	- 301	,,,		000170	
3850	P0000321	U of L Medical Center Outfall #4	0.0349	282	427	27	0,0018	CSO118	Beargrass Creek
						1	20045	000140	D 0\.
3850	P0000322	U of L Medical Center Outfall #5	0.0443		216	11 πο data		CSO118 Muddy Fork (CSO 154)	Beargrass Creek Beargrass Creek
8310	P0000271	Veterans Medical Center	0.1218	207	240	110 Gara	0.0023	Midday Fork (OGO 104)	Dearglass Creek
3850	P0000319	U of L Medical Center Outfall #2	0.0685	192	218	12	0.0015	CSO118	Beargrass Creek
								, , , , , , , , , , , , , , , , , , , ,	
3850	P0000318	U of L Medical Center Outfall #6	0.0585	163	181	10	0.0016	CSO118	Beargrass Creek
		11 -4   44 - 31 - 4   0 - 4 - 9   0 - 45 - 31 - 49	0.0480	105	75	2	0.0015	CSO118	Beargrass Creek
3850 1450	P0000320 P0000281	U of L Medical Center Outfall #3 Cissell Manufacturing Co.	0,0489	216.4	442.0	131		CSO117 149 179	Beargrass Creek
3380	P0000281	Stiglitz Corp.	0.005105	124.4	96.3	no data		CSO088	Beargrass Creek
- 0000	1,0000100	Cugate Golg.				<u> </u>			
	1	'						Nightingale PS (CSO 015	
1960	P0000003	Dean Milk	0.2449	2532	1138	no data	0.0040	or South Fork CSOs)	Both Ohio & Beargrass
								Cauthanat Dharmina (CCO)	
700	D00004400	\\\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	0.0325	1065	1901	а	. n noan	Southeast Diversion (CSO 015 or South Fork CSOs)	Both Ohio & Beargrass
790	P0000136	Weyerhaeuser Company	0.0325	נפטו	1901			(15 of Godin Folk CSOs)	Edit Offic & Deargrass
		Inland Paperboard - Old Shep						Southeast Diversion (CSO	
3920	P0000196	(out of business)	0,0377	460	896	22	0.0066		Both Ohio & Beargrass
					1		1	Middle Fork Upstream of	
390	P0000289	Baptist East Hospital	0,2179	255	163	10	0.0025	Breckenridge (various)	Both Ohio & Beargrass
			2 4244	226	264	an data	0.0027	Nightingale PS (CSO 015 or South Fork CSOs)	Both Ohio & Beargrass
290	P0000030	Norton - Audubon Hospital	0.1311	226	204	no data	0.0021	Middle Fork Upstream of	Doll: Cilio & Dealgrass
7820	P0000260	Norton - Suburban	0.0918	102	131	3	0.0024	Breckenridge (various)	Both Ohio & Beargrass
,020	1 0000200	Kentucky Assoc. of Electric						Nightingale PS (CSO 015	
8530	P0000282	Cooperatives, Inc	0.0131	58.9	67.8	2	0,0053	or South Fork CSOs)	Both Ohio & Beargrass
		Kentucky Assoc. of Electric			1	·	0.0040	Nightingale PS (CSO 015	Deth Ohio & Barress
8530	P0000283	Cooperatives, Inc	0.0011	2.0	12.4	no data	B100,0	or South Fork CSOs)	Both Ohio & Beargrass
9752	P0000360	Kentuckiana Tank Wash	0.0213	No Data	No Data	no data	0.0026	CSO015	Ohio River
		Trendending rather treats							
1 0330	P0000173	Porcelain Metals #2	no data	No Data	No Data	no data	0.0119	MDS (CSO 211)	Ohio River
6330	[P0000173	Porcelain Metals #2	no data	No Data	No Data	no data	0.0119	Northern Ditch & SW	Ohio River
			'			•		Northern Ditch & SW Sanitary Service Area	'
1951	P0000049	Dawn Food Products Loc 2	0.0304	15067	3145	no data	0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015	Ohio River
1951 1712	P0000049 P0000397	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3	0,030 <b>4</b> 0,009859	15067 14572	3145 775	•	0.0015 no data	Northern Ditch & SW Sanitary Service Area	'
1951	P0000049	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1	0.0304	15067	3145	no data no data	0.0015 no data	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105	Ohio River
1951 1712	P0000049 P0000397	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3	0,030 <b>4</b> 0,009859	15067 14572	3145 775	no data no data	0.0015 no data	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105	Ohio River
1951 1712 4897	P0000049 P0000397 P0000232	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein	0.0304 0.009859 0.239231	15067 14572 13051	3145 775 3778	no data no data no data	0.0015 no data 0.0024	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015	Ohio River Ohio River Ohio River
1951 1712 4897 6491	P0000049 P0000397 P0000232	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies	0.0304 0.009859 0.239231 0.6547	15067 14572 13051	3145 775 3778	no data no data no data	0.0015 no data 0.0024 0.0090	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 CSO015	Ohio River Ohio River Ohio River
1951 1712 4897 6491 4389	P0000049 P0000397 P0000232 P0000222 P0000209	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1	0.0304 0.009859 0.239231 0.6547 0.053037	15067 14572 13051 8210 7060	3145 775 3778 2027 641	no data no data no data no data	0.0015 no data 0.0024 0.0090 0.0090	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 MDS (CSO 211) CSO015	Ohio River Ohio River Ohio River Ohio River Ohio River Ohio River
1951 1712 4897 6491 4389 8542	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803	15067 14572 13051 8210 7060 5440	3145 775 3778 2027 641 607	no data no data no data	0.0015 no data 0.0024 0.0090 0.0083 no data	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 CSO015	Ohio River Ohio River Ohio River
1951 1712 4897 6491 4389 8542 7050	P000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery	0.0304 0.009859 0.239231 0.6547 0.053037	15067 14572 13051 8210 7060 5440	3145 775 3778 2027 641	no data no data no data l no data	0.0015 no data 0.0024 0.0090 0.0090 no data	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 MDS (CSO 211) CSO015	Ohio River
1951 1712 4897 6491 4389 8542	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers	0.0304 0.009659 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017	15067 14572 13051 8210 7060 5440 3713 3203	3145 775 3778 2027 841 807 3844 3797	no data no data no data  81 no data no data no data no data	0.0015 no data 0.0024 0.0090 0.0090 0.0083 no data 0.0019	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015  MDS (CSO 211) CSO015 CSO015  MDS (CSO 211) MDS (CSO 211)	Ohio River
1951 1712 4897 6491 4389 8542 7050	P000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distilery Casa de Oro Foods Loc 3	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700	15067 14572 13051 8210 7060 5440 3713	3145 775 3778 2027 841 807 3844 3797	no data no data no data  81 no data no data no data no data	0.0015 no data 0.0024 0.0090 0.0090 0.0083 no data 0.0019	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015  MDS (CSO 211) CS0015 CS0015 CS0105	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000008	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 (*3data pts)	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017	15067 14572 13051 8210 7060 5440 3713 3203 2936	3145 775 3778 2027 641 607 3644 3797	no data no data no data  81 no data no data no data  no data  no data  no data	0.0015 no data 0.0024 0.0090 0.0083 no data 0.0019 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 CS0015 CS0015 CS0015 CS0105 MDS (CSO 211)	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017	15067 14572 13051 8210 7060 5440 3713 3203 2936	3145 775 3778 2027 841 807 3844 3797	no data no data no data  81 no data no data no data no data	0.0015 no data 0.0024 0.0090 0.0083 no data 0.0019 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015  MDS (CSO 211) CSO015 CSO015  MDS (CSO 211) MDS (CSO 211)	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000008	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 (*3data pts)	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017	15067 14572 13051 8210 7060 5440 3713 3203 2936 2802	3145 775 3778 2027 841 8607 3844 3797 667 2825	no data no data no data  81 no data no data no data  no data  no data no data no data no data no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015 0.0211 0.0044	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015  MDS (CSO 211) CS0015 CS0015 CS0015 CS0105 MDS (CSO 211) CS0191 CS0191 CS0015 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000008 P0000298 P0000297 P00000317	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bemheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017 0.0267 0.069676	15067 14572 13051 8210 7060 5440 3713 3203 2936 2802 2062 1955	3145 775 3778 2027 541 607 3544 3797 667 2825	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015 0.0211 0.0044 0.0027	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015  MDS (CSO 211) CSO015 CSO015 CSO015 MDS (CSO 211) CSO191 CSO015 CSO015 CSO015 CSO015 CSO015 CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000008 P0000297 P00000297 P00000317 P00000299	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.22017 0.069676 0.146691 0.064426 0.0248	15067 14572 13051 8210 7060) 5440] 3713; 3203 2936 2802 2062 1955	3145 775 3778 2027 841, 807 3844 3797 667 2825 914 82 4044	no data no data no data  81 no data no data no data  no data no data no data no data no data no data no data no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 CS0015 CS0105 MDS (CSO 211) CS0105	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 990 1712 6340 5700	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000098 P0000297 P00000317 P00000299 P0000299 P00000299	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Mattack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017 0.0267 0.069678 0.146691 0.064426 0.0309	15067 14572 13051 8210 7060) 5440( 3713) 3203 2936 2802 2062 1955 1888 1297	3145 775 3778 2027 841 867 3544 3797 667 2825 914 82 4044 738	no data no data no data  81 no data no data no data  no data no data no data no data no data no data 15	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 CS0015 MDS (CSO 211) CS0015 CS0105 MDS (CSO 211) CS0105	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000008 P0000297 P00000297 P00000317 P00000299	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.22017 0.069676 0.146691 0.064426 0.0248	15067 14572 13051 8210 7060) 5440( 3713) 3203 2936 2802 2062 1955 1888 1297	3145 775 3778 2027 841, 807 3844 3797 667 2825 914 82 4044	no data no data no data  81 no data no data no data  no data no data no data no data no data no data 15	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 CSO015  MDS (CSO 211) CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 990 1712 6340 5700	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000098 P0000297 P00000317 P00000299 P0000299 P00000299	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Mattack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017 0.0267 0.069678 0.146691 0.064426 0.0309	15067 14572 13051 8210 7060) 5440( 3713) 3203 2936 2802 2062 1955 1888 1297	3145 775 3778 2027 841 867 3544 3797 667 2825 914 82 4044 738	no data no data no data  81 no data no data no data  no data no data no data no data no data no data 15	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 CS0015 MDS (CSO 211) CS0015 CS0105 MDS (CSO 211) CS0105	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 990 1712 6340 5700	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000298 P0000297 P00000317 P0000039 P0000299 P0000039 P0000099	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Mattack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2017 0.0267 0.069678 0.146691 0.064426 0.0309	15067 14572 13051 8210 7060) 5440; 3713; 3203 2936 2802 2062 1955 1888 1297	3145 775 3778 2027 841 867 3544 3797 667 2825 914 82 4044 738	no data no data no data  81 no data no data no data  no data no data no data no data no data no data 15	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015 0.0211 0.0024 0.0027 0.0025 0.0110 0.0021 0.0021	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 990 1712 6340 5700 3922	P0000049 P0000397 P0000232  P0000222 P0000209 P0000148 P00000270 P0000043  P0000008 P0000297 P00000317 P00000299 P0000083 P0000091 P0000081 P0000081 P0000081 P0000081 P0000081 P0000081	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control Cintas Derby City Tank Wash	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.2267 0.069676 0.146691 0.0248 0.0309 0.1600	15067 14572 13051 8210 7060) 54400 37133 3203 2936 2802 2062 1955 1888 1297 1246	3145 775 3778 2027 641] 607 3644 3797 667 2825 914 82 4044 738 796	no data 209	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 CS0015 CS0105 MDS (CSO 211) CS0015 CS0105 CS0105 CS0105 CS0105 CS0015 CS0015 CS0105 CS0105 CS0105 CS0105 CS0105 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922	P0000049 P0000397 P0000232 P0000222 P0000209 P0000148 P0000270 P0000043 P0000098 P0000297 P0000297 P0000297 P00000317 P00000299 P00000299 P00000297 P00000299	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ratston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.0267  0.069676 0.146691 0.064426 0.0248 0.0309 0.1600  0.060803	15067 14572 13051 8210 7060) 5440] 3713; 3203 2936 2802 2062 1955 1888 1297 1246	3145 775 3778 2027 641 807 3644 3797 667 2825 914 82 4044 738 796	no data 209	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922	P0000049 P0000397 P0000232  P0000222 P0000209 P0000148 P00000270 P0000043  P0000008 P0000297 P00000317 P00000299 P0000083 P0000091 P0000081 P0000081 P0000081 P0000081 P0000081 P0000081	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control Cintas Derby City Tank Wash	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.2267 0.069676 0.146691 0.0248 0.0309 0.1600	15067 14572 13051 8210 7060) 54400 37133 3203 2936 2802 2062 1955 1888 1297 1246	3145 775 3778 2027 641] 607 3644 3797 667 2825 914 82 4044 738 796	no data 209	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000043 P0000098 P0000098 P0000297 P0000297 P00000917 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Gutfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2267 0.069676 0.146691 0.0248 0.0309 0.1600 0.060803 0.0468 0.0134	15067 14572 13051 8210 7060) 5440] 3713; 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143	3145 775 3778 2027 641] 607 3644 3797 667 2825 914 482 4044 738 796	no data 209	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015  MDS (CSO 211) CS0015 CS0015 CS0015 CS0105 MDS (CSO 211) CS015 CS0105 CS0105 CS0105 CS0105 CS0105 CS0105 CS0105 CS0105 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922	P0000049 P0000397 P0000232  P0000222 P0000209 P0000148 P00000270 P0000043  P0000008 P0000297 P00000317 P00000299 P0000083 P0000091 P0000081 P0000081 P0000081 P0000081 P0000081 P0000081	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control Cintas Derby City Tank Wash	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.2267 0.069676 0.146691 0.0248 0.0309 0.1600	15067 14572 13051 8210 7060) 5440] 3713; 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143	3145 775 3778 2027 641] 607 3644 3797 667 2825 914 82 4044 738 796	no data 209	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000043 P0000098 P0000098 P0000297 P0000297 P00000917 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091 P0000091	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Gutfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services	0.0304 0.009859 0.239231 0.6547 0.053037 0.0803 0.1700 0.2267 0.069676 0.146691 0.0248 0.0309 0.1600 0.060803 0.0468 0.0134	15067 14572 13051 8210 7060) 5440] 3713] 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143	3145 775 3778 2027 641 607 3644 3797 667 2825 914 82 4044 738 763 622 622 624	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0172 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000299 P00000148 P00000298 P00000298 P0000297 P00000317 P00000317 P00000319 P0000051 P00000159 P00000159 P00000351	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillers Leaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.2017  0.069678 0.146691 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134 0.0579	15067 14572 13051 8210 7060) 54401 37131 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143	3145 775 3778 2027 841 607 3844 3797 - 667 2825 914 82 4044 738 796 763 622 524	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146  0.0072 0.0083	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000043 P0000098 P0000297 P00000317 P0000297 P0000083 P0000098 P0000099 P0000083 P0000191 P0000051 P0000051 P0000051 P0000051 P0000051 P0000051	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling	0.0304 0.009859 0.239231 0.8547 0.053037 0.0803 0.1700 0.2267 0.069676 0.148691 0.044426 0.0248 0.0309 0.1600 0.060803 0.0468 0.0134	15067 14572 13051 8210 7060) 54401 37131 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143	3145 775 3778 2027 641 607 3644 3797 667 2825 914 82 4044 738 763 622 622 624	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0172 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000008 P0000098 P0000297 P00000317 P00000317 P00000317 P0000051 P0000051 P0000051 P0000155 P0000155 P0000155	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Early Times Loc 1 Control Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc.	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.22017 0.069676 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579	15067 14572 13051 8210 7060) 5440] 3713] 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129	3145 775 3778 2027 8411 807 3644 3797 667 2825 914 82 4044 738 796 763 622 824	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0021 0.0146 0.0021 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000299 P0000048 P00000298 P0000298 P0000297 P00000317 P00000317 P0000018 P0000051 P0000155	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillers Leaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc. Liquid Transporters, Inc. (Trimac)	0.0304 0.009859 0.239231  0.6547 0.053037 0.0603 0.1700 0.2017  0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134 0.0579	15067 14572 13051 8210 7060) 5440] 37131 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1143	3145 775 3778 2027 841 607 3844 3797 667 2825 914 82 4044 738 796 763 622 524 1638	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0015 0.0015 0.0015 0.0015 0.0015 0.00015 0.0015 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000008 P0000098 P0000297 P00000317 P00000317 P00000317 P0000051 P0000051 P0000051 P0000155 P0000155 P0000155	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Early Times Loc 1 Control Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc.	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.22017 0.069676 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579	15067 14572 13051 8210 7060) 5440] 37131 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1143	3145 775 3778 2027 8411 807 3644 3797 667 2825 914 82 4044 738 796 763 622 824	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0015  0.0211 0.0044 0.0027 0.0025 0.0110 0.0015 0.0015 0.0015 0.0015 0.0015 0.00015 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 MDS (CSO 211) CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 CS0015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000148 P0000148 P0000029 P00000317 P0000317 P0000317 P00000317 P00000317 P00000317 P0000051 P0000051 P0000155 P0000155 P0000155 P0000155 P0000155 P0000155 P0000155 P0000155 P0000155	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Early Times Loc 1 Brown-Forman Early Times Loc 1 Brown-Forman Couprol Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc.  Liquid Transporters, Inc. (Trimac) Norton Hospital #1	0.0304 0.009859 0.239231  0.6547 0.053037 0.0603 0.1700 0.2017  0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134 0.0579	15067 14572 13051 8210 7060) 54400 37133 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1091 1094 934 712	3145 775 3778 2027 841 607 3844 3797 667 2825 914 82 4044 738 796 763 622 524 1638	no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0015  0.0011 0.0044 0.0027 0.0025 0.0110 0.0015 0.0015 0.0015 0.0015 0.0015 0.00015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015	P0000049 P0000397 P0000232  P0000222 P0000209 P0000148 P0000270 P0000043 P0000098 P0000297 P00000317 P00000317 P00000299 P00000159  P00000159  P0000159  P0000156 P00000156	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallel Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Control  Cintas Derby City Tank Wash Allwaste Control Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc. Liquid Transporters, Inc. (Trimac) Norton Hospital #1 Engelhard Corp Harshaw Chem G & K Services, Inc.	0.0304 0.009859 0.239231  0.6547 0.053037 0.08003 0.1700 0.2017 0.0267 0.069678 0.146691 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579  0.0788 0.035568 0.035568 0.0313 0.4693 0.04693	15067 14572 13051  8210 7060 5440 3713 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1091 1064 934 7712 624 568	3145 775 3778 2027 841 807 3644 3797 667 2825 914 82 4044 738 796 763 622 524 1638	no data 15 209 4 no data 11 no data 29 no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0025 0.0110 0.0021 0.0172 0.0083 0.0018 0.0018 0.0018 0.0018 0.0025 0.0018 0.0026 0.0026 0.0027 0.0028	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015 6470 7641 4790 5910	P0000049 P0000397 P0000232  P0000232  P0000229 P0000148 P0000029 P00000317 P0000031	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc.  Liquid Transporters, Inc. (Trimac) Norton Hospital #1 Engelhard Corp Harshaw Chem G & K Services, Inc. Universal Linen Service	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.2017 0.069676  0.146691 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579  0.0788 0.035568 0.0286 0.03489 0.04390 0.1639	15067 14572 13051  8210 7060) 5440) 37133 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1091 1064 934 712 624 668 5477	3145 775 3778 2027 641 607 3644 3797 667 2825 914 82 4044 738 763 622 622 824 1638 796 532 796	no data 15 209 5 4 no data 12 no data 29 no data no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0044 0.0027 0.0015 0.0110 0.0021 0.0146 0.0027 0.0015 0.0015 0.0083	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 CS0019 CS0019 CS0019 CS00105 MDS (CSO 211)	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015 6470 7641 4790 5910	P0000049 P0000397 P0000232 P0000232 P0000232 P0000298 P0000048 P0000298 P0000297 P00000317 P00000317 P00000317 P00000159	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillers Heaven Hill Bernheim Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc. Liquid Transporters, Inc. (Trimac) Norton Hospital #1 Engelhard Corp Harshaw Chem G & K Services, Inc. Universal Linen Service	0.0304 0.009859 0.239231  0.6547 0.053037 0.0603 0.1700 0.2017  0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579  0.0788 0.035568 0.035568 0.0313 0.4693 0.0459 0.0459 0.0459	15067 14572 13051  8210 7060 5440 3713 3203  2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1091 1064 934 712 624 568 547 407	3145 775 3778 2027 8411 607 3844 3797 667 2825 914 763 622 524 1638 39 628 796 532 243 420 281 292	no data 15 209 14 no data 29 12 no data no data no data	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0015  0.0011 0.0044 0.0027 0.0025 0.0110 0.0015  0.0018 0.0016 0.0026 0.0027 0.0025 0.0010 0.0021 0.0028 0.0031 0.0028	Northern Ditch & SW Sanitary Service Area (CSO 015 CSO015 CSO016 CSO016 CSO017 CSO017 CSO018 CSO018 CSO019 CSO019 CSO019 CSO019 CSO019 CSO0105 CSO019 CSO015 DTOR	Ohio River
1951 1712 4897 6491 4389 8542 7050 5390 2375 990 1712 6340 5700 3922 6611 2035 6042 7015 6470 7641 4790 5910	P0000049 P0000397 P0000232  P0000232  P0000229 P0000148 P0000029 P00000317 P0000031	Dawn Food Products Loc 2 Brown-Forman Lou Prod Loc 3 Golden Foods Loc 1 Solae L.C. DuPont Soy Polymers PTI, Previously Raiston Purina, Protein Technologies US Liquids Parallal Prod Loc 1 Florida Distillery Casa de Oro Foods Loc 3 RAR Tank Cleaning & Repair (Matlack) Outfall#2 ("3data pts) Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 2 Brown-Forman Early Times Loc 1 Brown-Forman Lou Prod Loc 2 PPG - Porter Paints Mothers Cookie Company Affordable Waste Control  Cintas Derby City Tank Wash Allwaste Container Services  Wynn Starr Foods of Kentucky RC-Canada Dry Bottling Company Standard Foods Inc.  Liquid Transporters, Inc. (Trimac) Norton Hospital #1 Engelhard Corp Harshaw Chem G & K Services, Inc. Universal Linen Service	0.0304 0.009859 0.239231  0.6547 0.053037 0.0803 0.1700 0.2017 0.069676  0.146691 0.064426 0.0248 0.0309 0.1600  0.060803 0.0468 0.0134  0.0579  0.0788 0.035568 0.0286 0.03489 0.04390 0.1639	15067 14572 13051  8210 7060 5440 3713 3203 2936 2802 2062 1955 1888 1297 1246 1152 1143 1129 1091 1064 934 712 624 568 547 407 394	3145 775 3778 2027 8411 807 3644 3797 667 2825 914 82 4044 738 796 763 622 524 1638 39 628 796 532 243 420 281 292 902	no data 15 209 12 no data no data no data 12 no data no data 12 no data no data 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0.0015 no data 0.0024  0.0090 0.0083 no data 0.0019 0.0015  0.0211 0.0025 0.0110 0.0027 0.0025 0.0100 0.0015  0.0018 0.0018 0.0018 0.0026 0.0018 0.0026 0.0028 0.0028 0.0028	Northern Ditch & SW Sanitary Service Area (CSO 015 CS0105 CS0015 CS0019 CS0019 CS0019 CS00105 MDS (CSO 211)	Ohio River

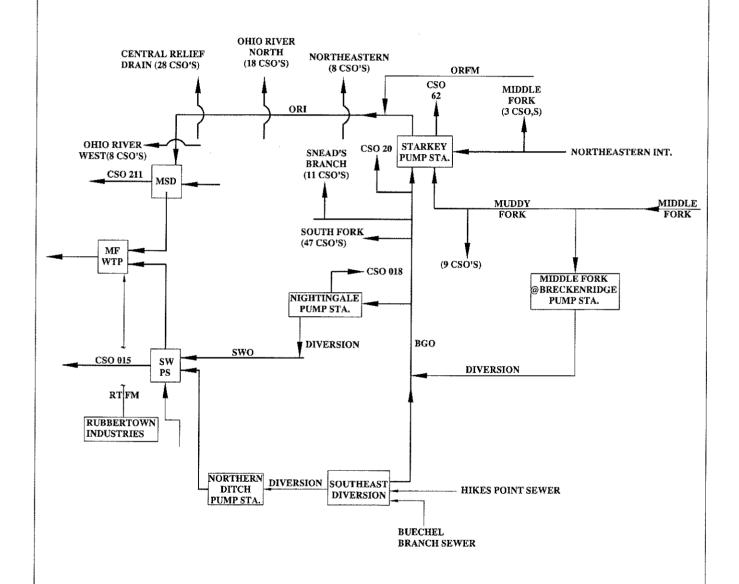
### TABLE 4-7 NON-DOMESTIC DISCHARGERS OF INTEREST POLLUTANTS OF CONCERN SUMMARY DATA

10.000000000000000000000000000000000000	10121178888888888		Flow AVG	BOD AVG	TSS AVG	I Ammonia AVG	Cadmium AVG	Personal regions y l'Alsertan agres	
Co. Number	LIMS LocCode	Company Name	MGD	mg/L	mg/L	mg/L	mg/L	CSO Outfall	CSO Location
2780	P0000006	Galt House	0.069298	313	241	no data	0.0015	CSO 149	Ohio River
6960	P0000086	Caritas Medical Center #1	0.0674		320	no data		CSO015	Ohio River
6610	P0000035	Akzo Nobel Outfail #1	0.0537	161	314	12	0.0032	CSO015	Ohio River
								Northern Ditch & SW	
1	1	Brown Forman formerly				1		Sanitary Service Area	
710	P0000412	Bluegrass Cooperage Company	0,109461	119	768	no data		(CSO 015	Ohio River
5924	P0000013	Dant Clayton Loc #2	0.0168	118	215	no data	0.0015	CSO015	Ohio River
				İ				Northern Ditch & SW	
710	P0000155	Brown Forman formerly	0.114292	100	372	no data	0.0017	Sanitary Service Area (CSO 015	Ohio River
6330	P0000172	Bluegrass Cooperage Company Porcelain Metals #1	0.029474		47	no data		MDS (CSO 211)	Ohio River
0000	1-0000172	FOICEIGHT MECES #1	0.025474	32	71	110 0200	0.0100	Northern Ditch & SW	OTRO INIVES
1		İ		1		İ		Sanitary Service Area	İ
2850	P0000215	General Electric	1,9826	31	65	6	0.0070	(CSO 015	Ohio River
8212	P0000167	Sud-Chemie West Plant Loc 1	0.8296		129	24		MDS (CSO 211)	Ohio River
		i						Northern Ditch & SW	
								Sanitary Service Area	
8210	P0000189	Sud-Chemie South Outfail #2	0.2376	5	7	174	0.0135	(CSO 015	Ohio River
" "			ĺ				-	Northern Ditch & SW	
				1	l			Sanitary Service Area	
4611	P0000407	Progress Rail Lincoln Ind.	no data			no data		(CSO 015	Ohio River
4321	P0000154	Kentucky Manufacturing Co.	0.000249		231.2	no data		MDS (CSO 211)	Ohio River
4881	P0000303	United Defense	0.023716		5.4	no data		CSO015	Ohio River
4443 4443	P0000031	Challenger Lifts	0.003095	2335.7 104.0	60.3	24			Ohio River
4443	P0000032	Challenger Lifts	0.003004	104.0	05.9	30	0.0153	Northern Ditch & SW	Ohio River
1					f			Sanitary Service Area	
3912	P0000198	Fabricated Metals Utility Metals	0.0015	2260.0	212.0	no data	0.0050	(CSO 015	Ohio River
	P0000041	C Lee Cook Dover Corp	0.0006		15.5	no data		CSO178	Ohio River
1722	P0000098	Hesco Parts	8000.0		108.0	no data		CSO178	Ohio River
4619	P0000007	Zoeller Pump Co.	0.0021	575.3	120.0	no data		CSO015	Ohio River
								Northern Ditch & SW	
								Sanitary Service Area	
4450	P0000254	FM Fabricated Metals	0,000557	85.6	54.0	no data	0.0048	(CSO 015	Ohio River
								Northern Ditch & SW	
	l							Sanitary Service Area	
636	P0000140	Green Lee Textron	0.0032		139,2	no data		(CSO 015	Ohio River
8140	P0000080	Tri-State Plating	0.0512	26.2	14.3	no data	0.0079	MDS (CSO 211) Northern Ditch & SW	Ohio River
Į.					1			Sanitary Service Area	
6674	P0000354	Kelly Fabricators Corp	0.0046	70.4	125.1	no data	0.0049	(CSO 015	Ohio River
	7 000000	Treat i dancatara Gorp	3.55-75		1	1 170 444		Northern Ditch & SW	
								Sanitary Service Area	
5924	P0000012	Dant Clayton Corp.	0.0168	15.4	128.6	no data	0.0054	(CSO 015	Ohio River
								Northern Ditch & SW	
						İ		Sanitary Service Area	
3912	P0000197	Fabricated Metals Utility Metals	0.000557	431.5	173,9	no data	0,0041	(CSO 015	Ohio River
1						İ		Northern Ditch & SW	
		General Electric Consumer		]		1 .	0.00==	Sanitary Service Area	011- 51
2850	P0000215	Products	1.9826		71.3	6		(CSO 015	Ohio River Ohio River
7250	P0000396	Precision Allmond Facility	0.008558	96.3	32.5	<del> </del>	0.0014	CSO015 Northern Ditch & SW	OUIO KIVEI
1								Sanitary Service Area	
7883	P0000395	AST ACME Coatings	no data		no data	٠ .	0.1227	(CSO 015	Ohio River
7105	P0000204	Advanced Filtration	0.0346	622,9	90.5	44		CSO015	Ohio River
								. 1.7	1 11111
							į		
6810	P0000331	Rohm and Haas Kentucky Loc 5	0.8942	177	675	11		Rubbertown FM (None)	None
4593	P0000302	DuPont Dow Elastomers LLC	2.6978		177	2		Rubbertown FM (None)	None
2980	P0000014	Oxy Vinyls LP Loc 1	2.3668	66	241	5	0,0099	Rubbertown FM (None)	None
					<u> </u>				
<b></b>		or Ohio River to be of Concern			>10000	>2000	None		<u> </u>
	Criteria for Bea	argrass Creek to be of Concern	>0.01	>1000	>1000	>200	>0.02		1

### TABLE 4-8 NON-DOMESTIC DISCHARGERS OF CONCERN

P00002 8770 P00001 9879 P00000 9415 P00000 240 P00003 5513 P00002 1960 P00000	27 D.D. Williamson 24 Kent Feeds 267 Puritan Cleaners 28 Swift & Company Armour F 29 Company, Monfort Inc. 29 Forth Technologies - Bergn	0.0544 0.0639 0.0268 ood 0.8949	mg/L 13759 5249 1331 1315 1185 1085	mg/L 3157 189 108 229 867 265	mg/L no data 174 4 3 97 27	0.0213 0.0016 0.0134 0.0015	CSO117 149 179	CSO Location  Beargrass Creek  Beargrass Creek  Beargrass Creek  Beargrass Creek  Beargrass Creek
8770 P00001 9879 P00000 9415 P00000 240 P00003 5513 P00002 1960 P00000	27 D.D. Williamson 24 Kent Feeds 267 Puritan Cleaners 28 Swift & Company Armour F 29 Company, Monfort Inc. 29 Forth Technologies - Bergn	0.0544 0.0639 0.0268 ood 0.8949 nan 0.1009	5249 1331 1315 1185	189 108 229 867	174 4 3 97	0.0213 0.0016 0.0134 0.0015	CSO140 DTC CSO117 149 179 CSO130	Beargrass Creek Beargrass Creek Beargrass Creek Beargrass Creek
9879 P00000 9415 P00000 240 P00003 5513 P00002	Kent Feeds Puritan Cleaners Swift & Company Armour F Company, Monfort Inc. Forth Technologies - Bergn	0.0639 0.0268 ood 0.8949 nan 0.1009	1331 1315 1185	108 229 867	4 3 97	0.0016 0.0134 0.0015	DTC CSO117 149 179 CSO130	Beargrass Creek Beargrass Creek Beargrass Creek Beargrass Creek
9415 P00000  240 P00003  5513 P00002  1960 P00000	Puritan Cleaners Swift & Company Armour F Company, Monfort Inc. Forth Technologies - Bergn	0.0268 ood 0.8949 nan 0.1009	1315 1185	229 867	97	0.0134 0.0015	CSO117 149 179 CSO130	Beargrass Creek Beargrass Creek Beargrass Creek
240 P00003 5513 P00002 1960 P00000	Swift & Company Armour F Company, Monfort Inc. Forth Technologies - Bergn	0.8949 nan 0.1009	1185	867	97	0.0015	CSO130	Beargrass Creek
5513 P00002 1960 P00000	Company, Monfort Inc.  Forth Technologies - Bergn	0.8949 nan 0.1009	******			***************************************		<del></del>
5513 P00002 1960 P00000	Forth Technologies - Bergn	nan 0.1009	******			***************************************		<del></del>
1960 P00000			1085	265	27	0.0041		
	Dean Milk	0.2449		1	3		CSO117 149 179	Beargrass Creek
			2532	1138	no data		Nightingale PS (CSO 015 or South Fork CSOs)	Both Ohio & Beargrass
790 P00001	36 Weyerhaeuser Company	0.0325	1065	1901	8	0.0080		Both Ohio & Beargrass
	Zoo Commission	0.0623					Nightingale PS (CSO 015 or South Fork CSOs)	Both Ohio & Beargras
1951 P00000	Dawn Food Products Loc 2	0.0304	15067	3145	no data		Northern Ditch & SW Sanitary Service Area (CSO 015	Ohio River
1712 P00003	97 Brown-Forman Lou Prod Lo	oc 3 0.0099	14572	775	no data		CS0105	Ohio River
4897 P00002	32 Golden Foods Loc 1	0.2392	13051	3778	no data		CSO015	Ohio River
6491 P00002	Solae L.L.C. DuPont Soy Polymers PTI, Previously Ralston Purina, Protein Technologies	0.6547	8210	2027	81		MDS (CSO 211)	Ohio River
	Churchill Downs, Inc.	0.2980		1			CSO015	Ohio River

# FIGURE 4-1 MF COLLECTION SYSTEM SCHEMATIC

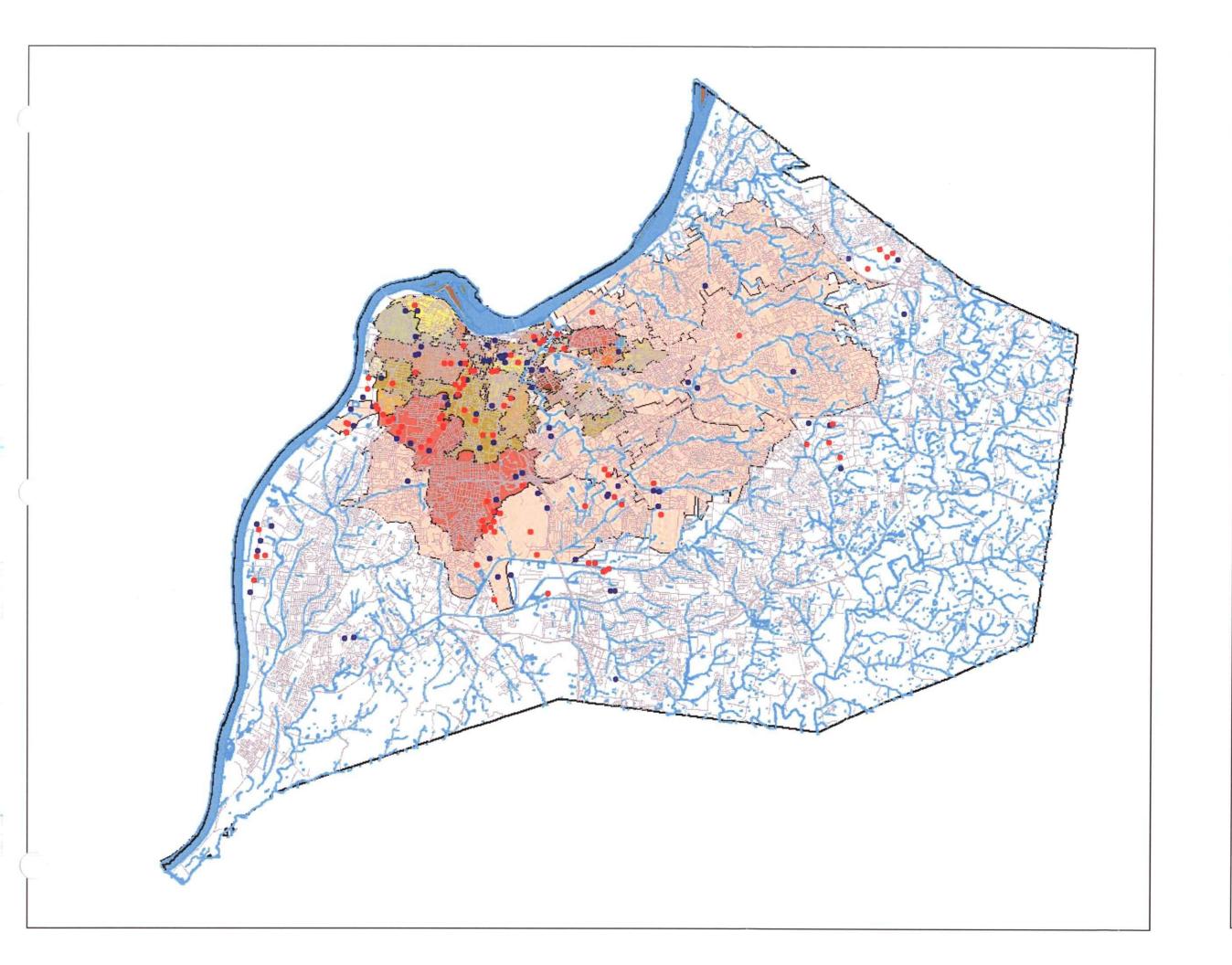


COMBINED SEWER SYSTEM

SEPARATE SANITARY
SEWER SYSTEM



Louisville and Jefferson County Metropolitan Sewer District



# FIGURE 4-2 SIU and GDP







# MSD IWD Figure 4-12 Industrial/Commercial Facility Inspection

	FACI	LITY	Y GEN	NERAL INFORMATION					
Company Name:					Permit #				
Address:									
Contact Name:					Phone #				
Inspected By:				Inspection DATE:					
Facility Compliance Status									
	Yes	No	N/A	Comments/Details	Deficiency Observed				
Have any NOVs been issued in past year?									
Has the facility been in SNC in past 2 years?									
Compliance Schedule dates:				to					
Is the facility currently subject to enforcement?									
If yes, what has been done to correct the violations?									
Has the facility had any Incidents since last inspection?									

Facility & Data Areas Evaluate	ed Today	Regulatory Program:		
Hazardous Materials Storage		HMO, Pretreatment (P/T) Slug		
	I	Control, CSO LTCP, MS4 &		
		Floodplain protection		
Non-hazardous Materials Storage-	П	P/T Slug Control, CSO LTCP & MS4		
Water Conservation	III	CSO LTCP, P2		
Vet Weather Process Discharge	IV			
Minimization	14	P2- CSO LTCP		
P/T Discharge Permit Conditions	V	P/T		
Self-Monitoring	VI	P/T		
Process Operations for P/T Req	VII	P/T		
Pretreatment System Operations	VIII	P/T		
Pretreatment Recordkeeping Req	IX	P/T		
Stormwater Management	X	CSO LTCP, MS4		
Other	XI			



# MSD IWD Figure 4-12 Industrial/Commercial Facility Inspection

I Hazardous Materials	Stora	ge- H	MPC,	P/T Slug Control, CSO LTC	CP, MS4 & Floodplain
	Yes	No	N/A	Comments/Details	Deficiency Observed
Is HMPC Contact Information Correct?					
Are all Chemicals/Raw Materials, Products					
and Hazardous Wastes Correctly Inventoried					
& Mapped?					
Is chemical containment adequate?					
Are chemicals in each containment					
compatible?					
Are spill kits adequate and accessible?					
Are emergency instructions posted?					
Are MSDS available and accessible?					
Are outdoor storage areas located in					
floodplain?					
Are outdoor storage areas roofed?					
Are loading dock areas contained?					
Can chemicals reach a drain if spilled?					
Are all containment area drains sealed or					
valved shut?					
II Non-hazardo	us Ma	teria]	s Stor	age- P/T Slug Control, CSO	LTCP & MS4
	Yes	No	N/A	Comments/Details	Deficiency Observed
Are sludges or tank bottoms discharged to					
MSD?					
Are "off-spec" or non-routine products or raw					
naterials discharged to MSD?					
Is this a batch discharge facility?					
Are bypass lines or practices present in either				•	
production or pretreatment areas?					
	ШІ	2- C	SO LT	CP Water Conservation	
Is once-through cooling water used?					
Has the facility implemented water					
conservation or recycling?					
IV P2- CSC	) LTC	P W	et Wea	ther Process Discharge Min	imization
Does the facility have wet weather storage					
canacity for process wastewater?					



# MSD IWD Figure 4-12 Industrial/Commercial Facility Inspection

	7			Comment Conditions	Deficiency Observed
T (1)	Yes	No	IN/A	Comments/Details	Deficiency Observed
Is the contact list correct?					
Does the facility have a TOMP or a PMP?	ļ				
Is the management plan being followed?		<u> </u>			
Has the facility had any past slug discharges?					
Does the Industrial User have a Slug Control					
plan?					
Date of last Slug Control Inspection:		<u> </u>	Γ		
Are wastewater types and quantities as					
described in WCS?					
Does the facility TRI report materials actually					
discharged to the POTW?					
			/1 P/T	Self-Monitoring	
Who performs routine sampling?	<u> </u>		·		
Is the IU collecting samples in accordance					
with permit requirements or standard					
procedures sample type, preservatives,					
holding times, chain-of-custody, etc.?	<u> </u>				
Which lab performs the sampling analysis?					
Is Flow Measurement an accurate					
representation of monitored discharge?					
Sampling Location Observations:	ļ		·····		
Are discharge-monitoring reports being					
empleted correctly?					
		V	II Pr	ocess Operations	
O&M Observations					
How often are floors/equipment washed?					
Have there been any significant changes from					
the last inspection?					,
Has the facility experienced an operational					
upset since last inspected?	<u> </u>				
Is sludge/waste handling adequate to prevent					
discharge?					
Method of sludge disposal:					
Is Hazardous Waste generated?					
Is there any seasonal variation in process					
wastewater flow volume?					
	VII	I Pre	treatr	nent System Operations	
Is the pretreatment unit operating in			J. J. J. J. J. J. J. J. J. J. J. J. J. J		
accordance with the Permit Application?					
Are monitoring instruments calibrated?					
The monitoring manufactus cantilacus	<u> </u>				
TX	D	was 4	T	anaudkaaning Danvissassassas	
	rret	reatn	ient K	ecordkeeping Requirements	
Copy of IU Permit on file at IU?					
Monitoring results on file at IU?					



# MSD IWD Figure 4-12 Industrial/Commercial Facility Inspection

X Stormwater Management- MS4 & CSO LTCP					
				Comments/Details	Deficiency Observed
Is the facility located in CSS?					
Are facility downspouts "daylighted"?					
Does the facility discharge stormwater directly					
to a stream?					
Does the facility discharge stormwater to an					
MS4 storm drain?					
Are any process wastewaters discharged to a					
stream?					
Is the facility permitted under KPDES?					
Does the facility have KPDES DMR					
Requirements?				<b>.</b>	
Does the Facility have Stormwater Effluent					
Quality Control BMPs or Treatment?					
Does the facility have Stormwater Quantity					
BMPs installed?					
Storm Drain Observations (trapped/untrapped,					
floatables control, evidence of dumping etc.)					
·					
Stormwater Outfall Observations (color,					
sheen, odor, dry weather discharge?):					
Does the facility have any stream Pollutants of					
Concern exposed to the weather?					
			Inspe	ction Findings	
HMPC update needed?					
Slug control plan needed?					
Safety of MSD Sampling Techs assured?					
Permit modification needed?					
KPDES Permit/Compliance referral needed?		l			
General Facility Observations:					
Housekeeping Observations					
Closing Review Conducted?					
Does IU request technical assistance?					
Correction Notice Issued?					
Required Corrective Actions Due Date:					
Additonal Recommended Actions:					



#### APPENDIX 4A SUMMARY OF EXISTING PROGRAMMATIC MEASURES

#### **Pretreatment Program**

MSD's pretreatment program is administered by the Industrial Waste Department (IWD) within the Regulatory Management Services (RMS) Division. MSD underwent a restructuring in late 2003. One result of that effort was the merger of IWD with the Wet Weather Area Team (WWAT) to better utilize existing resources to fulfill the needs of both the wet weather and pretreatment programs. Since that time, IWD has been addressing wet weather related issues at facilities when performing pretreatment program and HMPC inspection and follow-up activities, as well during response to emergency incidents in the CSS.

#### MSD Wastewater/Stormwater Discharge Regulations (WDRs)

MSD has its legal authority through the Wastewater/Stormwater Discharge Regulation (WDRs). Included in these regulations is a general list of prohibited discharges and specific discharge limitations designed to protect collection system and treatment work operations and enable compliance with water quality standards and effluent limitations specified in MSD's KPDES permits. The discharge limitations listed in the WDRs are site specific pretreatment limits known as Local Limits (LL). Local Limits have been developed for each wastewater treatment plant with an approved pretreatment program. The DOW requires these limits to be reevaluated every five years. MSD's current local limits were evaluated using an approach which combines sound, technically defensible procedures based on water quality, inhibition criteria and treatment plant removal efficiency. Data from industrial and non-industrial entities was also factored into the calculations. MSD currently allocates the local limits by uniform distribution. For Categorical Industries (CI), MSD is required to apply the most stringent of the Categorical and local limits to CI.

The WDRs provide MSD with enforcement authority against illicit discharges, slug discharges, and discharges of prohibited materials to the public sewers, as well as to streams. MSD enforces compliance with the WDRs on users that are subject to the provisions of the WDRs. Enforcement actions authorized in the WDRs include Correction Notices (CN), Notices of Violation (NOV), Fines, Compliance Schedules (CS), and Consent Orders (CO). The WDRs can be found on MSD's website at <a href="https://www.msdlouky.org">www.msdlouky.org</a>.

#### **Industrial User Permits**

Wastewater discharge permits issued by MSD detail specific discharge limitations for pollutants that may cause harm to MSD facilities or the environment. The wastewater from permitted users is periodically monitored to ensure that those users comply with the limitations listed in their respective permits. The program issues three types of permits: Federal SIU Permits, General Discharge Permits (GDP) and Unusual Discharge Request (UDR) Permits.

IUs are required to complete and file an application with MSD for a wastewater discharge permit (WDP). Permits are issued for a specified time period and include standard conditions and other site specific special conditions such as: volume limitations, limits on rates and times of discharges; requirements for installation, operation and maintenance of monitoring, inspection and sampling facilities, and pretreatment requirements. Permits are an existing mechanism to allow MSD to enforce special requirements such as flow detention during wet weather and include a schedule for such compliance. In addition, discharge permits require IUs to meet Federal Categorical Pretreatment Standards where they are more stringent than MSD's



standards. Special permit conditions, slug control plans, and enforcement actions with requirements for remedial measures are some of the tools used to protect the CSS from slug discharges and to require the implementation of pollution prevention measures. Each IU is required, at a minimum, to submit biannual reports indicating the nature and concentration of pollutants in its effluent which are limited by pretreatment standards, as well as records of daily flows which exceed an average daily flow. These reports are called Self-Monitoring Reports (SMR). In addition, IUs are required to retain pretreatment records for a minimum of three years.

#### **Non-Compliance with Permit Limitations**

Compliance is determined by comparing the results of sampling activities to the discharge limitations listed in an IU's permit. When an IU violates the specific discharge limitation for a given parameter, a NOV is issued and the industry is required to resample within thirty (30) days for the violating pollutant. If the results of the additional sampling exceed the discharge limits, the IU may meet the criteria for Significant Non-compliance (SNC). An IU is considered to be in SNC if it meets one of the following criteria:

- Chronic violations of wastewater discharge limits, are those in which sixty-six (66)
  percent or more of all of the measurements taken during a six-month period exceed (by
  any magnitude) the daily maximum limit or the average limit for the same pollutant
  parameter;
- Technical Review Criteria (TRC) are those in which thirty-three (33) percent or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
- Any other violation of a pretreatment effluent limit (daily maximum or longer-term average) that MSD determines has caused, alone or in combination with other discharges, interference or pass-through (including endangering the health of POTW personnel or the general public);
- Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the POTW's exercise of its emergency authority to halt or prevent such a discharge;
- Failure to meet, within ninety (90) days after the due date, a compliance schedule milestone contained in a WDP or other order issued by MSD for starting construction, completing construction or attaining final compliance;
- Failure to provide, within thirty (30) days after the due date, required reports such as baseline monitoring reports, ninety (90) day compliance reports, periodic SMRs and reports on compliance with compliance schedules;
- Failure to accurately report non-compliance;
- Any other violation or group of violations which MSD determines will adversely affect the operation or implementation of the pretreatment program.

#### Slug Control Plans

SIUs are required to comply with the slug prevention and control provisions of Article 4.07 of the WDRs as required in 40 CFR 403.8(f)(2)(v). Slug control plans are solicited from SIUs that pose a threat to MSD facilities, including the CSS during wet weather events, as well as those that have non-hazardous materials that could create interference or pass-through at the

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treatment plant. Slug control plans have specifically been required of industries within the CSS that have the potential to discharge wet-weather settleable or suspended solids, lack erosion controls around catch basins on dirt lots, or have inadequate secondary containment for non-hazardous materials storage tanks. SIUs are inspected according to Federal Pretreatment Regulation requirements. Erosion Prevention and Sediment Control Ordinance (EPSC) violations found during these inspections are referred to the EPSC group for enforcement. See Item 4-4 for a copy of MSD's Slug Control Questionnaire form and an example of a completed slug control questionnaire form.

#### Reporting for Pretreatment Program

MSD submits several different reports to DOW for the pretreatment program. Kentucky reporting requirements for the pretreatment program are more stringent than Federal rules. Reports submitted by MSD are:

- Annual Pretreatment Discharge Monitoring Report (PTDMR)
- Annual Pretreatment Report (APR)
- Semi-annual Pretreatment Report (SAPR)
- Industrial User Report for Kentucky Pollutant Discharge Elimination System (KPDES) renewals

The PTDMR is a summary of influent, effluent and biosolids data for those WTPs with an approved pretreatment program is due annually in January. The APR is due in March each year and includes summaries for each individual permitted user, as well as statistics on the pretreatment program which include compliance and enforcement activities. Publication of those users in SNC is required annually. It involves publishing a listing of those IUs found to be in SNC during the reporting year and must appear in a local newspaper. The SAPR is due each September. It summarizes the first half of the calendar year covering program statistics. Every five years, summary industrial data, similar to the Pretreatment Annual Report must be collected to satisfy permit application requirements of the KPDES renewal process at those wastewater treatment plants with an approved pretreatment program.

#### Best Management Practices for Dischargers to the CSS

Beginning in 1998, a partnership was formed between MSD and the Louisville Water Company (LWC) to develop a Best Management Practices and Procedures (BMP&P) for Chlorinated Water Disposal to address the discharge of potable and chlorinated water to MSD's collection system. The LWC regularly must dispose of potable and chlorinated water associated with routine operation and maintenance activities, such as water main flushing and repairs and construction of new water mains. Large discharges to the collection system can overload the sewer, pump stations and wastewater treatment plants and discharges to the CSS can cause dry weather overflows.

Both agencies recognized the need to protect MSD operations and facilities, adhere to Clean Water Act (CWA) requirements while providing safe, clean drinking water for Louisville residents and sufficient pressure for fire fighting activities. Procedures identified in the BMP&P are based upon limitations dictated by the receiving system, as well as at downstream PSs or WTPs. Data on sewer pipe size, slope, invert elevation, etc. is available to LWC digitally through the LOJIC GIS using a software application called ArcView. The BMP&P also reviews equipment and techniques, dechlorinating agents and monitoring and notification procedures for LWC and MSD

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personnel. A memorandum of understanding was developed in a joint effort between MSD and the LWC.

#### Flow metering activities in the CSS

As a result of the concerns EPA had with the traditional programmatic approach to the Pretreatment Program, MSD became a participant in the Project XL (eXcellence in Leadership) initiative in September of 1998. MSD was awarded a 104(b)(3) Grant from EPA for the Development of Pretreatment Performance Measures. The objective of this project was to develop, implement, and assess specific performance measures designed to indicate the environmental impact of the Pretreatment Program in the Jeffersontown sewershed. In order to apply the lessons learned from the Grant project, MSD applied for a Pilot Project through the XL (eXcellence in Leadership) program. EPA authorized the pilot study on September 28, 2000. MSD's Board approved modifications to MSD's Waste Discharge Regulations to include Project XL. Kentucky Division of Water incorporated Project XL into MSD's KPDES permit, which became effective on June 1, 2002. Project XL applies only to the Jeffersontown Wastewater Treatment Plant which does not serve the CSS.

One outcome of the Project XL was the learned knowledge that collection system monitoring is an important tool to assist in determining conditions in the collection system and to conduct mass loading exercises. As a result, MSD installed flow meters at 4 sites within the CSS for that purpose; one on each of the two major trunk lines that merge into the Southwestern Outfall, one on the Southern Outfall, and one on the Southwestern Outfall. MSD initially experienced problems installing a meter on the Ohio River Interceptor (ORI) at the first location chosen. Since that time, MSD has determined another location for a flow meter on the ORI and is in the process of installing the meter. MSD conducts periodic sampling on the three contributing trunk lines to assess the concentrations of pollutants entering the MFWTP. This concentration data provides a more precise picture of the concentration of pollutants to the plant from the three trunk lines and will be used by MSD in upcoming Local Limits evaluations.

While MSD has not yet initiated mass balance projects utilizing the 4 CSS meters, flow readings from the meters have proven to be useful in the Real Time Control (RTC) Program. Additionally, the RTC Program will provide an indirect benefit to the pretreatment program since downstream flows containing industrial flow will be held and not overflow from the CSS. Additionally, these meters, along with those used for MSD's modeling project, will be used to establish flow conditions in the CSS during wet weather to assess the potential impact of non-domestic dischargers to the CSS. Refer to Figure 4A-1 for a graphical representation of these meters.

#### HAZARDOUS MATERIALS ORDINANCE/SPILL PREVENTION AND CONTROL PLANS

MSD is the administering agency for the Louisville Metro Hazardous Materials Ordinance (HMO). As such MSD reviews and approves Hazardous Materials Spill Prevention and Control (HMPC) plans, as well as inspects HMPC facilities. The role of HMPC spill planning in the inventory and assessment of non-domestic dischargers to the CSS is discussed in more detail in Section 4.3.5. MSD employs Emergency Response Pretreatment Inspectors (ERPI) to perform facility inspections, review and approve HMPC plans and issue permits to IUs. These personnel are assigned the HMPC plan for those facilities for which they oversee wastewater discharge permits. Therefore, they possess an in depth knowledge of the facilities that pose the greatest risk to CSO discharges. HMPC plans are reviewed and facilities are inspected prior to approval. SIUs with a HMPC plan are inspected annually. Since the activities associated with

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this program are performed by the same personnel as the pretreatment program, it adds an extra layer of scrutiny for non-domestic dischargers to the CSS.

#### Hazardous Material Ordinance (HMO)

All commercial and industrial sites in Louisville Metro, including the CSS that have a reportable quantity of hazardous materials on-site are required by MSD to file a current Hazardous Materials (Spill) Prevention and Control (HMPC) plan. Retail sales establishments are not exempt from the HMPC program.

The HMPC plan is required to include all hazardous materials stored, amounts, locations, primary storage container type, secondary containment type, response equipment and procedures. MSD is the administering agency for the Hazardous Materials Ordinance (HMO). As such, MSD reviews and approves Hazardous Materials Prevention and Control (HMPC) plans. Plans include a list of specific materials, amounts, locations, containment and spill reporting and response. Specifically, HMPC plans address how the facility will prevent the release from ever reaching the sewer system. HMPC Plans are reviewed and the sites are inspected prior to plan approval. Significant industrial users (SIUs) are inspected annually and non-SIUs are inspected on a risk-based schedule.

The HMO affords MSD with an opportunity to consider the impact of non-domestic facilities that discharge to the CSS since it scrutinizes many facilities that do not meet the requirements for a wastewater discharge permit due to insignificant wastewater discharges. HMPC plans also meet the minimum elements of a slug control plan in accordance with 40 CFR 03.8(f)(2)(v)(a) to (D), which are:

- Description of discharge practices, including non-routine batch discharges;
- Description of stored chemicals;
- Procedures for immediately notifying the POTW of slug discharges, including any discharge prohibited under 40 CFR 403.5(b), with procedures for follow-up written notification within five (5) days;
- If necessary, procedures to prevent adverse impact from accidental spills, including
  inspection and maintenance of storage areas, handling and transfer of materials,
  loading and unloading operations, control of plant site runoff, worker training, building
  of containment structures or equipment, measures for containing toxic organic
  pollutants (including solvents), and/or measures and equipment for emergency
  response.

The HMO list of hazardous materials includes all federally listed substances as well as other characteristically hazardous wastes and petroleum. IWD has created a hazardous materials inventory database that tracks the location and contents of all hazardous materials storage locations in the Louisville Jefferson County Information Consortium (LOJIC) Geographic Information System (GIS). CSOs and drainage structures can also be seen in the GIS system. The hazardous material information and CSO information can be viewed simultaneously to assess risks to CSOs and streams from upstream hazmat storage locations.

In addition to the HMPC plan, the Ordinance requires immediate local spill response reporting to 911 for any size spill that enters a sewer, drainage inlet or a reportable quantity of materials that is released to the environment. The result is that hazardous materials best management practices have been implemented throughout the Louisville Metro area. ERPIs are the MSD personnel that are responsible for responding to emergency incidents, reports of slug



discharges and illicit discharges, as well as treatment plant upsets and blockages in the collections system due to grease. Immediate containment and mitigation efforts are taken by responding ERPIs on-scene and downstream of the release. ERPIs utilize the GIS system to conduct sewer traces to assist in locating possible sources of released materials, remain at the scene until a responsible party agent arrives to undertake remedial actions and confirms that appropriate mitigation actions are taken downstream to minimize impacts to CSOs as much as possible. ERPIs perform follow-up activities to ensure that relevant issues such as appropriate enforcement actions, wastewater permitting, stormwater drainage (includes CSS), HMPC spill planning and control activities, implementation of pollution prevention BMPs, if applicable, whether the facility has an HMPC spill plan if needed, and that an existing HMPC spill plan is being followed and issues properly addressed. If these follow-up activities indicate a facility needs an HMPC plan and/or permit, the appropriate review process is initiated.

As administering agency for the HMO, MSD has enforcement authority to include NOVs, Fines, Compliance Schedules, and Consent Orders. Emergency incidents are reviewed bi-weekly with MSD's Legal department to determine if facilities have violated the HMO. Additionally, since the same personnel that respond to emergency incidents are responsible for permitted facilities, MSD is also able to address pretreatment related violations of the WDRs in conjunction with HMO violation review. This compliance review includes those facilities that introduce grease to the sewer system, including the CSS, in amounts that cause blockages.

Refer to Item 4-3 of the NMC Supplemental Information binder dated June 3, 2006, for a copy of the HMO, a copy of the Preliminary Response Report form and an emergency incident listing for the month of April 2006.

#### Motor Vehicle Accident (MVA) Mitigation Program

MSD implemented a Motor Vehicle Accident (MVA) Mitigation Program in the early 1990s. It is a cooperative effort between MSD and Louisville Metro fire departments. MVAs often create minor releases of hazardous materials and petroleum products onto the roadway. Prior to implementation of the mitigation program, fire departments would wash the spillage off the road into the CSS or Municipal Separate Storm Sewer System (MS4). Under the program, MSD's IWD offers oil absorbent material and five-gallon plastic buckets to fire department personnel at no cost. The fire departments use the absorbent material to pick up leaked or spilled MVA fluids instead of flushing the materials. They return the used absorbent to IWD in the plastic bucket. IWD re-supplies them with absorbent and a clean bucket. IWD manages and disposes of the used absorbent in compliance with RCRA regulations.

#### INDUSTRIAL/COMMERCIAL PLUMBING PLAN REVIEW PROGRAM

New non-domestic dischargers are scrutinized by MSD through the Industrial/Commercial Plumbing Plan Review (I/CPPR) program which focuses on identification of targeted dischargers during the building permit acquisition phase for required pretreatment, as well as future permitting. This program allows MSD to both identify a facility as a non-domestic discharger to the CSS and to assess potential wastestreams from these facilities. New users to the sewer system are required to complete and submit an IWD Plan Submittal Survey Form. If facility representatives answer yes to any of questions on the form, they are required to submit plumbing plans to MSD for review and approval prior to obtaining a building permit. This program is part of the Louisville Metro building permit approval process and, therefore, assures that targeted facilities are accounted for and assessed, prior to construction. It is at this point in

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the process that facilities are identified as being non-domestic dischargers to the CSS, as well referred for possibly requiring a wastewater discharge permit. It is also the point at which conditions can be placed on discharges from facilities on the CSS. Once the facility is built, MSD inspects to verify that the approved plan was followed. Those facilities subject to regulation under a wastewater discharge permit are sent a permit application to complete and submit to MSD. Since the program's inception, MSD has conducted over 1,500 plan reviews and inspections. Refer to Figures 4A-1a and 4A-1b and 4A-2a and 4A-2b for copies of the forms used in the I/CPPR program and examples of completed forms.

Food Service Establishments (FSEs) are a major group of non-domestic dischargers that receive scrutiny from MSD under the (I/CPPR) program. There are approximately 3,000 FSEs in Louisville Metro. FSEs without proper pretreatment devices installed can discharge large amounts of grease to the sewer which in turn, can obstruct the sewer and cause an overflow. The I/CPPR program requires that new FSE facilities install a minimum 1,000 gallon, double compartment, outdoor grease trap. Existing buildings in which the kitchen or greasy waste lines are not segregated from the restroom lines are allowed to install fixture traps on individual grease bearing devices such as a three-compartment sink.

#### Industrial/Commercial Plumbing Plan Review

In 1995, MSD began a program that targets commercial and industrial facilities with the potential to discharge regulated substances to the collection system. The program, called Industrial/Commercial Plumbing Plan Review (ICPPR), focuses on identification of targeted dischargers during the building permit acquisition phase for required pretreatment, as well as future permitting. ICPPR is part of the Metro Louisville building permit approval process and, therefore, assures that targeted facilities are accounted for and assessed, prior to construction. Once the facility is built, MSD inspects to ensure the approved plan was followed. Those facilities subject to regulation under a wastewater discharge permit or HMPC plan are sent a permit/HMPC application to complete and submit to MSD. Since the program's inception, MSD has conducted over 1,500 plan approvals and inspections.

In addition to identifying those facilities that may require a wastewater discharge permit and/or a HMPC plan, the ICPPR identifies non-domestic dischargers that may require additional controls. The program allows MSD to both identify a facility as a non-domestic discharger to the CSS and to assess potential wastestreams from these facilities. New users to the sewer system are required to complete and submit an IWD Plan Submittal Survey Form. If facility representatives answer yes to any of questions on the form, they are required to submit plumbing plans to MSD for review and approval prior to obtaining a building permit. It is at this point in the process that facilities are identified as being non-domestic dischargers to the CSS, as well referred for possibly requiring a wastewater discharge permit. It is also the point at which conditions can be placed on discharges from facilities on the CSS.

Some major categories controlled through this program include:

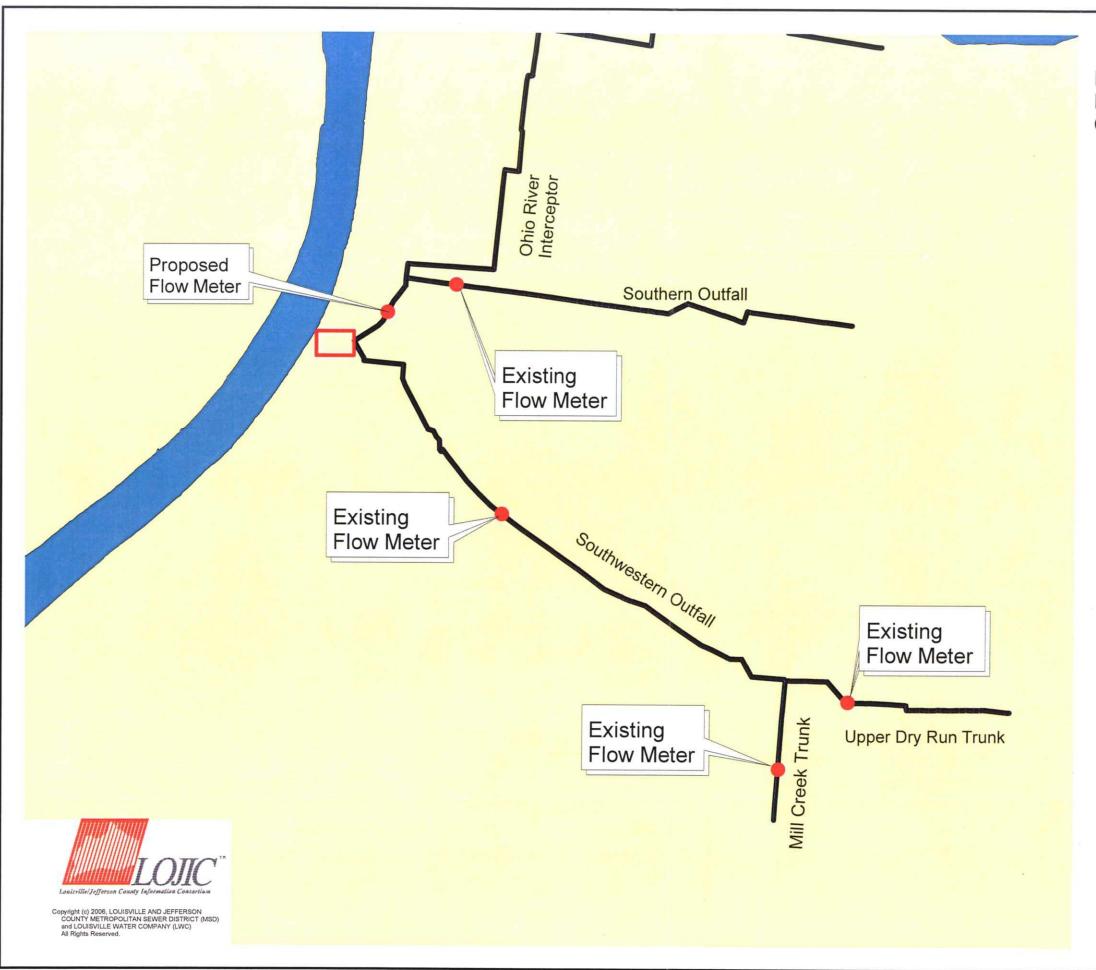
- Food Service Establishments (commercial)
- Hospitals
- Photo/X-ray Processors
- Dental Offices
- Car/Truck Washes
- Auto/Truck Service or Repair



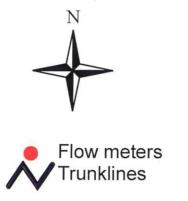
Discharge controls for these groups generally are targeted to keeping pollutants of concern out of the sewer system. Therefore, these controls generally need not be modified for wet weather conditions to prevent discharges through CSOs. It is necessary, however, to ensure that the required controls are properly installed and maintained.

Appendix 4A Table 1 includes a list of all facilities that have been processed through the Industrial/Commercial plumbing Plan Review since 1995 and their type of pretreatment device.

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### FIGURE 4A-1 FLOW METERS ON MFWTP COMBINED SEWER SYSTEM



Not to Scale
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9 Minimum Controls Submittal
June 3 2006\Shapefiles\
9 minimum controls.apr



#### Louisville and Jefferson County Metropolitan Sewer District Industrial Waste Department

FIGURE 4A-1a

#### IWD Plan Submittal Survey Form

Project	t Name _			Telephone	
Owner	s Name			Telephone	
Submi	tting Fir	m/Co	o	Telephone	
Person Submitting Telephone				Telephone	
	e a brief	desc	FINDUSTRIAL PROCESSESS OR ACTIVIC pription of industrial processes, manufacturing	g, or activities to be performed at this site	
	~		☐ Existing If existing, is there a current wanknown, if yes, give permit number	- <del>"</del>	
	the appr	opriz	ate answer:		
	Yes	No		sources other than restrooms, hand sinks	, air
			Are floor drains installed in any production	or material storage areas?	
			Are any solvents or hazardous materials to b	be used or stored at the facility?	
			Is there any treatment planned for wastewate	er, prior to discharge to the sewer?	
			Will this facility operate one of the followin appropriate:	g processed? If yes, please indicate which	ch is
			☐ Auto/Truck Service or Repair	☐ Photo/X-ray Processor	
			☐ Car/Truck Wash	☐ Printing Operations	
			☐ Food Service/Kitchen	☐ Process Wastewater	•
			☐ Industrial Laundry	☐ Wastewater Treatment	
			☐ Materials/Equipment Washing		
Departi your pla Initial r approv Person	ment of tans will elease wed by Monager was submitt	the L be co vill be ISD' ing p	of the above questions is yes, you must have ouisville and Jefferson County Metropolitan onducted. A wastewater discharge permit, pre given once these items have been addressed as Stormwater Management Department, pulan must sign below.  The above questions to the above questions to	Sewer District prior to obtaining a construct reatment facilities or monitoring provising the plans. PLEASE BE ADVISED rior to obtaining a building permit.	uction permit. A review of ions may be required.
Signed					Date//
itle_					
		_			

For IWD review of plans, please call Peggy Burgin 540-6974, to make an appointment. Plans may be dropped offt or mailed to MSD IWD, 700 West Liberty Street, 40203-191, Monday – Friday, 7:30AM – 4:00PM



# Louisville and Jefferson County Metropolitan Sewer District Industrial Waste Department

FI	GU	IRE	<b>4A</b>	-2a
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IWD FIRST RELEASE
(submit this form with request for building permit)

	FIGURE 4A-2a
Proj. No. 📖	- Parl Machanian
Hansen No.	
Code	
ephone	
ephone	

Date

	(submit this form with requi	est for building permit) SW No
Project Name:		
Site Address:		Zip Code
Owner's Name:		Telephone
Contract Name:	1	Telephone
Hand Delivered	Mailed DOEH Ov	wner Contractor Other
MSD has reviewed and accepted	the Industrial Waste Survey For	m and plans dated//
Pretreatment equipment required	d: Exempt M	fonitoring Interceptor
Comments: (Please circle one of th	e items below)	
Minimum 25 gpm/50# capacity	Minimum 50 gpm/100# capacity	1000 Gallon GREASE INTERCEPTOR / 1000 Gallon Oil/Water Separator
GREASE INTERCEPTOR w/CO	GREASE INTERCEPTOR w/CO	double compartment w/discharge CO and 2 access covers
Required by MSD/IWD	Required by MSD/IWD	Required by MSD/IWD
C/O on Silver Recovery Unit	Acid Dilution Pit	Other
hat the accepted plans have been fol APPOINTMENT FOR INSPECT	llowed and that the sample station ar	MENT MUST INSPECT THE PLUMBING prior to backfilling to verify ad/or interceptor requirements have been met. PLEASE MAKE AN backfilling to reduce delays in construction.  call Peggy Burgin (502) 540-6974
		/
ASD Reviewer		Date
	FINAL REL	EASE
ROUGH PLUMBING INSPEC	TION	MSD Inspector
Acceptable, Date/_/_		
: Unacceptable		
·		

	/
MSD Reviewer	Date
FINAL RELEA	SE
$\pi$ ROUGH PLUMBING INSPECTION	MSD Inspector
π Acceptable, Date//	
π Unacceptable	
Comments	
$\pi$ INTERCEPTOR/SAMPLE STATION INSPECTION	MSD Inspector
π Acceptable, Date/	
π Unacceptable	·
Comments	
$\pi$ INTERCEPTOR/SAMPLE STATION RE-INSPECTION	MSD Inspector
π Acceptable, Date/	
π Unacceptable	
Comments	
MSD accepts the rough plumbing and interceptor as now constitu make no changes without prior approval of MSD's Industrial Wa	

Applicant's Signature

DISTRIBUTION: White - MSD, Canary - DOEH 0000024 - 5520311 07/05

Date

MSD Representative



Louisville and Jefferson County Metropolitan Sewer District Industrial Waste Department

#### IWD Plan Submittal Survey Form

Project	Nam	e TACOBELL .	Telephone
Site Add	dress	3520 BARDGTOWN ROAD	
Owners	Nan	IC YUM - DOWN COULTER	Telphone 415-885-4494 4)
		irm/Co. PESIGN +, INC.	Telephone 502.454.50   *1 -
Person-S	Subm	itting DALE RYAN/KEN BROWN	Fax No. <u>S02-454-4511</u>
		ON OF INDUSTRIAL PROCESSES OR ACTIVITIES of description of industrial processes, manufacturing, or	
Building	_	New	vastewater discharge permit with MSD?
		propriate answer:	. ,
Yes 💆	Мo П	Will water be discharged to the sewer from sources of equipment or condensate sinks?	ner than restrooms, hand sinks, air handling
図		Are floor drains installed in any production or material	storage areas?
RQ (		Are any solvents or hazardous materials to be used or	stored at the facility?
	절	Is there any treatment planned for wastewater, prior to	discharge to the sewer?
X		Will this facility operate one of the following processe	d? If yes, please indicate which is appropriate:
•			to/X-ray Processor
•		☐ Car/Truck Wash ☐ Prin	ting Operations
		<del>-</del>	cess Wastewater
		☐ Industrial Laundry ☐ Wa ☐ Materials/Equipment Washing	stewater Treatment
or monit plans. P	i Wa tion p oring LEA	to any of the above questions is yes, you must have ste Department of the Louisville and Jefferson County permit. A review of your plans will be conducted. A way provisions may be required. Initial release will be given SE BE ADVISED THAT plans must also be approved using a building permit.	Metropolitan Sewer District prior to obtaining a astewater discharge permit, pretreatment facilities ven once these items have been addressed in the
Person s	<i>ubm</i> iersiį	itting plan must sign below.  gned have correctly answered the above questions to the	best of my knowledge.
Signed _		KULLI HI	Date 4 / 12 /05
Title			
)		<i>U</i>	

For IWD review of plans, please call Greg Ratliff 540-6470 or Lisa Gaus 540-6467, to make an appointment. Plans may be dropped off at or mailed to MSD IWD, 700 W. Liberty St. 40203-1913, Monday – Friday, 7:30 am – 4:00 pm

# 

0000024 - 5520311 07/05

# Louisville and Jefferson County Metropolitan Sewer District Industrial Waste Department

	17.14.14.1 14.1 14.1 14.1 14.1 14.1 14.1	4510 2 4541 1111 1111		FIGURE 4A-2b
( MSD			Proj. No	
	IWD FIRST R	ELEASE	Hansen No	110030
	(submit this form with reque		SW No	
( - d -	n Food Service	- 4		
Project Name: (TOTO)	- 4	<u> </u>	Zip Code YC	219
Site Address: 7559	efferson Blud	<del></del>	Tolombomo	
Owner's Name:			Telephone Telephone <i>Gl6</i>	745-557/
Contract Name: <u>Jack</u>	ratkins		_ relephone (2142)	
Hand Delivered Mai	led DOEH DOV	wner Contractor	Other	
MSD has reviewed and accepted the	Industrial Waste Survey For	_		
Pretreatment equipment required:	☐ Exempt ☐ M	Conitoring Interd	eptor	
Comments: (Please circle one of the ite	ens below)			and CARRY C
GREASE INTERCEPTOR w/CO G	Spimum 50 gpm/100# capacity PEASE INTERCEPTOR w/CO Equired by MSD/IWD	1000 Gailon GREASE II double compartment w/o Required by MSD/IWD		Gallon Oil/Water Separat ess covers
G/O on Silver Recovery Unit	Acid Dilution Pit	Other		
that the accepted plans have been follow APPOINTMENT FOR INSPECTION  If you have any questions or if you wish  MSD Reviewer	I a minimum of 24 hours prior to	call Peggy Burgin (502)	iys iii consuuction.	
	FINAL REI	LEASE-	o cessoo or (세 때 JR Cocoroso driek) FC cose ce ce certe \ <sup>all</sup> 다	353 25 G
		MSD Inspect	nr	
π ROUGH PLUMBING INSPECTION	)] <del>\</del>	Transport and Brace		***************************************
π Acceptable, Date/				
π Unacceptable				
Comments				
π INTERCEPTOR/SAMPLE STA	ATION INSPECTION	MSD Inspect	or	
π Acceptable, Date//				
	•			
π Unacceptable  Comments				
Comments				
$\pi$ INTERCEPTOR/SAMPLE STA	ATION RE-INSPECTION	MSD Inspec	tor	
π Acceptable, Date//				
π Unacceptable			4	
Comments				
MSD accepts the rough plumbing make no changes without prior ap	and intercentor as now con	istituted. The Applica	nt agrees he, his bu	siness or agents will
				/ /
MSD Representative	- / /	Applicant's Signatur	2	Date
IVINALI MERTERRATATIVE	1.0 Ct. L.S.	TELENTAL PROPERTY OF STREET	-	

DISTRIBUTION: White - MSD, Canary - DOEH

### APPENDIX 4B INVENTORY OF NDD IN MFWTP SERVICE AREA

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
ACCENT ON HAIR	905 HESS LN	CSO015
ALL STAR CUTZ	3115 COMMERCE CENTER PL	CSO015
ANNIE'S CAFE	308 W WOODLAWN AVE	CSO015
AUDUBON ANIMAL MEDICAL CENTER	1311 DURRETT LN	CSO015
AUDUBON SCISSOR PLAY SALON	3127 PRESTON HWY	CSO015
AUTO BODY & FRAME	2343 MILLERS LN	CSO015
AUTOMOTIVE SPECIALISTS	4217 TAYLOR BLVD	CSO015
B MART .	3612 CANE RUN RD	CSO015
BARKER'S JAY AUTO REPAIR SERVICE INC	4350 TAYLOR BLVD	CSO015
BLANKENSHIP'S AUTO SERVICE	4238 LOUISVILLE AVE	CSO015
BLUEGRASS COCA COLA BOTTLING CO	1661 W HILL ST	CSO015
BLUEGRASS MEDICAL BUILDING	4402 CHURCHMAN AVE	CSO015
BOWEBB CLEANERS	5213 NEW CUT RD	CS0015
BROOKLINE LAUNDRYMAT	830 BROOKLINE AVE	CS0015
BROOKS DUCT CLEANING	4144 TAYLOR BLVD	CS0015
BROWN BOB ENTERPRIZES	1736 W GAULBERT AVE	CS0015
CARBY CAR WASH	3204 DIXIE HWY	CS0015
CARDINAL HALL OF FAME CAFE	2745 CRITTENDEN DR	CSO015
CARITAS	5305 DEVERS AVE	CSO015
CENTRAL BAR & LOUNGE	2515 7TH STREET RD	CSO015
CHARLIE PAXTON'S ONE HOUR CLEANERS	1600 DIXIE HWY	CSO015
CHURCHILL DOWNS	4422 RICE AVE	CS0015
CHURCHILL DOWNS	700 CENTRAL AVE	C\$0015
CHURCHILL DOWNS	3737 S 4TH ST	CS0015
COCA COLA BOTTLING CO		CS0015
COCA-COLA BOTTLING CO OF LOUIS COLOR CORP INC	1661 W HILL ST 1630 W HILL ST	CS0015
COLOR CORP INC	1630 W HILL ST	CSO015 CSO015
DAN'S BAR		
DIXIE DENTAL CENTER PSC & ASSOCIATES		CSO015
	1480 DIXIE HWY	CSO015
DUNKIN DONUTS	4500 S 3RD ST	CSO015
EARLY TIMES DISTILLERY		CSO015
EL SHADDAI CHRISTIAN CHILDCARE CENTEI		CSO015
F & M FOOD MART		CSO015
FIVE STAR FOOD MART		CSO015
FLORIDA DISTILLERS COMPANY		CSO015
GENERAL RUBBER & PLASTICS CO		CSO015
GENTLE EXCELLENCE DENTAL		CSO015
GOLDEN STAR CHINESE FAST FOOD RESTA		CSO015
		CSO015
HARDEE'S RESTAURANT		CSO015
		CSO015
HEADDEN SEPTIC & ENVIRONMENTAL SERV		CSO015
HEADY ARCH L & SON FUNERAL DIRECTORS		CSO015
	5349 MITSCHER AVE	CSO015
		CSO015
ROQUOIS ANIMAL CLINIC		CSO015
		CS0015
		CSO015
PHILIP MORRIS USA MILLERS LANE COMPLE		CSO015
	5804 SOUTHSIDE DR	CSO015
	4016 TAYLOR BLVD	CSO015
		CSO015
		CSO015
SPEEDWAY PETROLEUM INC	1670 S 17TH ST	CSO015
SPEEDWAY PETROLEUM INC STEVE'S BAR & GRILL INC		CSO015 CSO015
SPEEDWAY PETROLEUM INC STEVE'S BAR & GRILL INC SUBWAY	3314 PRESTON HWY	
SPEEDWAY PETROLEUM INC STEVE'S BAR & GRILL INC SUBWAY THE LAUNDRY CONNECTION	3314 PRESTON HWY 1300 SOUTHGATE AVE	CSO015

### APPENDIX 4B INVENTORY OF NDD IN MFWTP SERVICE AREA

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
ULRICH CHEMICAL INC-LOUISVILLE DIV	3900 TUCKER AVE	CSO015
UNITED DEFENSE LP ARMAMENT SYSTEMS		CSO015
UNIV OF LOUISVILLE	132 OTTAWA AVE	CSO015
VINCENTS AUTO REPAIR	1700 BERRY BLVD	CSO015
VINCENT'S JOE AUTO REPAIR	1700 BERRY BLVD	CSO015
WENDYS	3301 CANE RUN RD	CSO015
ARBYS	2804 CRITTENDEN DR	CSO015
ULRICH CHEMICAL INC LOUISVILLE DIV	3900 TUCKER AVE	CSO015
1ST INTERMODAL	3508 MANSLICK RD	CSO015
502 COIN LAUNDRY	1739 BERRY BLVD	CSO015
502 LOUNGE	2509 DIXIE HWY	CSO015
A C CHIROPRACTIC CENTER	947 CENTRAL AVE	CSO015
A CHAU GROCERY STORE	5107 S 3RD ST	CSO015
A CHEAP DUMPSTER CO LLC	2820 7TH STREET RD	CSO015
ABRAMS ROOFING & SHEET METAL	1847 BERRY BLVD	CSO015
ABRAMS ROOFING & SHEET METAL INC	1847 BERRY BLVD	CSO015
ADVANCED FILTRATION TECHNOLOGY INC	3111 DIXIE HWY	CSO015
ADVANTAGEB TANK LINES	2600 MILLERS LN	C\$O015
AETNA/U S HEALT	1400 SHINGO AVE	CSO015
AFFORDABLE WASTE MANAGEMENT	3848 TUCKER AVE	CSO015
AKZO COATINGS I	4730 CRITTENDEN DR	CSO015
AKZO NOBEL	4730 CRITTENDEN DR	CSO015
ANGELO'S PIZZA	1725 BERRY BLVD	CSO015
ANGILOS PIZZA	1725 BERRY BLVD	CSO015
ANGILO'S PIZZA	1725 BERRY BLVD	CSO015
ANTIQUE CAR CO	2917 DIXIE HWY	CSO015
ARBYS	5022 S 3RD ST	CSO015
AUTOZONE	3102 PRESTON HWY	CSO015
AUTOZONE	5115 NEW CUT RD	CSO015
BACTION AUTO BODY & PAINT SHOP	2911 DIXIE HWY	CSO015
BARBARA DEE COOKIE CO	2287 RALPH AVE	CSO015
BEAUTY SUPPLY CENTER	5324 S 3RD ST	CS0015
BLUEGRASS ORTHOPAEDIC GROUP TOTAL	4402 CHURCHMAN AVE	CSO015
B-MART	3612 CANE RUN RD	CSO015
BUD SMITH PHOTO-VIDEO	4300 S 2ND ST	CSO015
CAFETERIA	425 E KENWOOD DR	CSO015
CARITAS HEALTH	134 E SOUTHLAND BLVD	CSO015
CARITAS HEALTH	1850 BLUEGRASS AVE	CSO015
CARITAS HEALTH SERVICES	1850 BLUEGRASS AVE	CSO015
CARITAS HEALTH SERVICES	4402 CHURCHMAN AVE	CSO015
CARITAS HEALTH SERVICES INC	1850 BLUEGRASS AVE	CSO015
CARITAS MEDICAL CENTER	1850 BLUEGRASS AVE	CSO015
CARITAS PHYSICI	515 BEECHER ST	CSO015
CREDIT BUREAU SYSTEMS INC	2113 ALGONQUIN PKWY	CSO015
DAIRY MART	4347 S 3RD ST	CSO015
DAIRY MART #281	335 E ESPLANADE AVE	CSO015
DAIRY MART #385	1255 W ASHLAND AVE	CSO015
DAIRY MART 1003	1783 CAYUGA AVE	CSO015
DAIRY MART G NUMBER 385	1255 W ASHLAND AVE	CSO015
DAIRY MART SOUTHEAST DIVISION STORE I	1100 ALGONQUIN PKWY	CSO015
DAIRY QUEEN	4137 TAYLOR BLVD	CSO015
DERBY CITY TANK WASH INC	3806 BELLS LN	CSO015
INDI'S RESTAURANT	5009 S 3RD ST	CSO015
JEWISH HOSPITAL MEDICAL OFC	2905 1/2 DIXIE HWY	CSO015
JIMBO'S BARBECUE	801 W KENWOOD DR	CSO015
JIM'S AUTO SERVICE	4319 S BROOK ST	CSO015
KFC	3280 TAYLOR BLVD	CSO015
KFC	5010 S 3RD ST	CSO015
KROGER	4211 S 3RD ST	CSO015
LAB CORP	3711 PARTHENIA AVE	CSO015
LIL' KINGS & QU	3020 PENWAY AVE	CSO015
LITTLE ANGELS DAYCARE	4606 S 2ND ST	CSO015
LITTLE CAESARS PIZZA	816 W KENWOOD DR	CSO015
LITTLE PEOPLE'S CHILD CARE	1507 BERRY BLVD	CSO015
LOU ETTA'S JEAN'S BEAUTY SALON	1000 W WHITNEY AVE	CSO015
LOUISVILLE CHEMICAL COMPANY	3236 COMMERCE CENTER PL	CSO015
LOUISVILLE DREAM DENTISTRY	3803 PRESTON HWY	CSO015
MANDY'S HAIR TECH	1402 CENTRAL AVE	CSO015
MANION'S RESTAURANT AND SPORTS BAR	3631 CANE RUN RD	CSO015
	1614 DIXIE HWY	CSO015
MARTIN'S TAVERN		1000015
MARTIN'S TAVERN MARYDALE CLUB	1910 DUBOURG AVE	CSO015
MARYDALE CLUB	1910 DUBOURG AVE 837 DENMARK ST	CSO015
MARYDALE CLUB MARY'S BEAUTY SHOP		
MARYDALE CLUB MARY'S BEAUTY SHOP MCDONALDS	837 DENMARK ST 806 W EVELYN AVE	CSO015
MARYDALE CLUB MARY'S BEAUTY SHOP	837 DENMARK ST	CSO015 CSO015

## APPENDIX 4B INVENTORY OF NDD IN MFWTP SERVICE AREA

INCODANT OF SET AUPANTS	Users Name (Dialogic Coverage)	Address	Tributary to CSO#
MOSP TO JUCK SIZA-POOD RESTAURANTS   5000 3 MRD ST   C. \$50016			
MR CAPTYS			
MR CATTIS			
MY 15 HARP HAIR DESIGNS  MY 15 HARP HAIR DESIGNS  MEW HORZON HOPE CARE CENTER  AND MEM HORZON HOPE CARE CENTER  AND MEM HORZON HOPE CARE CENTER  AND MEM HORZON HOPE CARE  MAN HORZON HOPE CARE  AND MEM HORZON HOPE CARE  AND MEM HORZON HOPE CARE  AND MEM HORZON HOPE CARE  AND MEM	MR GATTIS		
INEW HORIZON HOPE CARE CENTER	MY T SHARP HAIR DESIGNS		
NUMBELLEY FUNERAL HOME INC	NEW HORIZON HOPE CARE CENTER		
OLE MEXICAN POODS INC   3200 COMMERCE CENTER PL   C\$0015			
ONE HOUR MARTINIZING LAUNDRY	OLE MEXICAN FOODS INC		
ONE STOP FOOD MART #8	ONE HOUR MARTINIZING LAUNDRY		
OXY UNITS	ONE STOP FOOD MART #5		
PAPA JOHNS INTERNATIONAL			
PENN STATION RAST COAST SUBS   300 W WOODLAWN AVE   CS0015	PAPA JOHNS INTERNATIONAL		
PEPSI-COLA GENERAL BOTTLERS BOTTLE 4000 CRITTENDEN DR	PENN STATION EAST COAST SUBS	300 W WOODLAWN AVE	
PEPSI-COLA GEN BOTTLERS	PEPSI COLA GENERAL BOTTLERS BOTTLE &	4008 CRITTENDEN DR	
PIZZA MAGIA			
PORTER RAINTS			
PREVONNE'S HAIR DESIGNS	PORTER PAINTS	5330 S 3RD ST	
RALLYS HAMBURGERS	PREVONNE'S HAIR DESIGNS		
RALLYS HAMBURGERS   3455 TAYLOR BLVD   C50015	RALLY'S HAMBURGERS	1800 W HILL ST	
RITE AID EXPRESS I HOUR PHOTO A149 TAYLOR BLVD CSS015 SALON ROUGE SOLON ROUGE 3103 COMMERCE CENTER PL CSS015 SALON ROUGE 3103 COMMERCE CENTER PL CSS015 SALON ROUGE 3103 COMMERCE CENTER PL CSS015 SALON ROUGE SPEEDY MART 2708 DIXIE HWY CSS015 SPEEDY MART 4406 TAYLOR BLVD CSS015 SPEEDY MART 4406 TAYLOR BLVD CSS015 SUBWAY SANDWICH SHOP 5338 S 3RD ST CSS015 SUBWAY SANDWICH SHOP 5338 S 3RD ST CSS015 SUPERAMERICA 306 W AMHERST AVE CSS015 SUPERAMERICA 4319 CRITITENDEN DR CSS015 TACO BELL 3409 PRESTON HWY CSS015 TACO BELL 3409 PRESTON HWY CSS015 TACO BELL 5910 S 3RD ST CSS015 TACO BELL 5910 S 3RD ST CSS015 TACO BELL 5910 S 3RD ST CSS015 THORNITON OIL CORP 90 3320 PRESTON HWY CSS015 THORNITON OIL CORP 91 200 THI STREET RD CSS015 THORNITON OIL CORP 91 200 THI STREET RD CSS015 ANGELOS BAR 627 N 34TH ST CSS016 THORNITON OIL CORP 91 202 TAYLOR BLVD CSS016 THORNITON OIL CORP 91	RALLY'S HAMBURGERS		
RONE   PHOTOGRAPHY	RITE AID EXPRESS 1 HOUR PHOTO	4149 TAYLOR BLVD	
SALON ROUGE   3103 COMMERCE CENTER PL   CS0015	RONE' PHOTOGRAPHY		
SHOPPERS CHARGE ACCOUNT   937 PHILLIPS LN   C\$0015	SALON ROUGE		
SPEEDY MART	SHOPPERS CHARGE ACCOUNT	937 PHILLIPS LN	
SPEEDY MART			
SUBWAY SANDWICH SHOP			
SUPERAMERICA   306 W AMMERST AVE   CS0015	SUBWAY SANDWICH SHOP		
SUPERAMERICA	SUPERAMERICA	306 W AMHERST AVE	
TACO BELL	SUPERAMERICA	4319 CRITTENDEN DR	
TACO BELL	TACO BELL	3408 PRESTON HWY	
THORNTON OIL CORP 42	TACO BELL		
THORNTON OIL CORP 60   3320 PRESTON HWY   C50015	THORNTON OIL CORP 42	4309 CRITTENDEN DR	
THORNTON OIL CORP 61	THORNTON OIL CORP 60	3320 PRESTON HWY	
UNIV OF LOUISVILLE  4038 LA SALLE AVE  CS0015  WENDYS OLD FASHIONED HAMBURGERS  342 TAYLOR BLVD  CS0015  ANGELO'S BAR  627 N 34TH ST  CS0019  FIVE STAR FOOD MART  321 N 22ND ST  CS0019  N & OUT DAIRY MART  222 PORTLAND AVE  CS0019  WULCAN HART CO  2006 NORTHWESTERN PKWY  CS0019  WEST END FAMILY DENTAL CLINIC ON  2418 W MARKET ST  CS0019  DAIRY QUEEN OF MIDDLESBORO  258 PORTLAND AVE  CS0019  ANNIES PIZZA INC  ABETTER BLY AUTO SALES INC  356 N 25TH ST  CS0019  ANNIES PIZZA INC  2220 PORTLAND AVE  CS0019  ANNIES PIZZA INC  2520 PORTLAND AVE  CS0019  ANNIES PIZZA INC  2520 PORTLAND AVE  CS0019  CARITAS HEALTH SERVICES  CARITAS HEALTH SERVICES  2500 W MARKET ST  CS0019  CONDYS HAIR SALON  2816 PORTLAND AVE  CS0019  DOMINO'S PIZZA  2313 W MARKET ST  CS0019  DOMINO'S PIZZA  2313 W MARKET ST  CS0019  LIL' KINGS & QU  MARKET ST  CS0019  MARKET ST  CS0019  LIL' KINGS & QU  MARKET ST  CS0019  MARKET ST  CS0019  CS0019  LIL' KINGS & QU  MARKET ST  CS0019  MODONALD'S RESTAURANTS  SO N 22ND ST  SEEDUMY SUPERAMERICA  2112 DUNCAN ST  CS0019  MODONALD'S RESTAURANTS  SO N 22ND ST  SEDEDUMY SUPERAMERICA  2112 DUNCAN ST  CS0019  MODONALD'S RESTAURANTS  SO N 22ND ST  CS0019  SUBWAY SANDWICH SHOP  533 N 22ND ST  CS0019  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0020  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  ABC WELDING & REPAIR  1019 E MAIN ST  CS0022  COUNTY HA MARKET ST  CS0022  COUNTY HA WARKET ST  CS0022  COUNTY HA WARKET ST  CS0022  COUNT			
WENDYS OLD FASHIONED HAMBURGERS   342 TAYLOR BLVD   CSO015		4038 LA SALLE AVE	
ANGELO'S BAR 627 N 34TH ST CS0019 FIVE STAR FOOD MART 521 N 22ND ST CS0019 IN & OUT DAIRY MART 2329 PORTLAND AVE CS0019 VULCAN HART CO 2056 NORTHWESTERN PKWY CS0019 VULCAN HART CO 2056 NORTHWESTERN PKWY CS0019 VULCAN HART CO 2056 NORTHWESTERN PKWY CS0019 DAIRY QUEEN OF MIDDLESBORO 2058 PORTLAND AVE CS0019 DAIRY QUEEN OF MIDDLESBORO 2058 PORTLAND AVE CS0019 A BETTER BLUY AUTO SALES INC 358 N 26TH ST CS0019 ANNIES PIZZA INC 2520 PORTLAND AVE CS0019 ANNIES PIZZA INC 2520 PORTLAND AVE CS0019 ANNIES PIZZA INC 2520 PORTLAND AVE CS0019 CARITAS HEALTH SERVICES 2500 W MARKET ST CS0019 CARITAS HEALTH SERVICES 2500 W MARKET ST CS0019 CINDYS HAIR SALON 2816 PORTLAND AVE CS0019 CINDYS HAIR SALON 2816 PORTLAND AVE CS0019 DOMINO'S PIZZA 2313 W MARKET ST CS0019 LIL' KINGS & QU 526 LOCHER ALY CS0019 LIL' KINGS & QU 526 LOCHER ALY CS0019 LIL' KINGS & QU 526 LOCHER ALY CS0019 MARKET STREET FAMILY DENTISTRY PSC & 2410 W MARKET ST CS0019 MARKET STREET FAMILY DENTISTRY PSC & 2410 W MARKET ST CS0019 SPEEDWAY SUPERAMERICA 2112 DUNCAN ST CS0019 SUBWAY SANDWICH SHOP 533 N 22ND ST CS0019 SUBWAY SANDWICH SHOP 533 N 22ND ST CS0019 CICIS PIZZA 939 E WASHINGTON ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0020 ANGE WELDING & REPAIR 1019 E MAIN ST CS0020 ASCILLING & REPAIR 1019 E MAIN ST CS0022 AMICC'S RESTAURANT 641 ST SC0022 AMICC'S RESTAURANT 641 ST SC0022 AMICC'S RESTAURANT 641 ST SC0022 AMICC'S RESTAURANT 641 ST SC0022 AMICC'S RESTAURANT 641 ST SC0022 AMICC'S RESTAURANT 651 ST SC0022 AMICC'S RESTAURANT 651 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST SC0022 AMICC'S RESTAURANT 1015 ST ST SC0022 AMICC'S RESTAURANT 1015 ST ST SC0022 AMICC'S RESTA			
FIVE STAR FOOD MART			
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DOMINO'S PIZZA         2313 W MARKET ST         CS0019           KROGER         3126 PORTLAND AVE         CS0019           LIL GENIUS CHIL         323 N 25TH ST         CS0019           LIL GENIUS CHIL         323 N 25TH ST         CS0019           LIL' KINGS & QU         526 LOCHER ALY         CS0019           MARKET STREET FAMILY DENTISTRY PSC & 2410 W MARKET ST         CS0019           MCDONALD'S RESTAURANTS         520 N 22ND ST         CS0019           MCDONALD'S RESTAURANTS         520 N 22ND ST         CS0019           SPEEDWAY SUPERAMERICA         2112 DUNCAN ST         CS0019           SUBWAY SANDWICH SHOP         533 N 22ND ST         CS0019           CICIS PIZZA         939 E WASHINGTON ST         CS0020           ABC WELDING & REPAIR         1019 E MAIN ST         CS0020           ABC WELDING & REPAIR         1019 E MAIN ST         CS0020           ALSAC SAINT JUDE CHILDRENS RESEARCH         215 W MUHAMMAD ALI BLVD         CS0022           ALSAC SAINT JUDE CHILDRENS RESEARCH         215 W MUHAMMAD ALI BLVD         CS0022           BUL-ITALIAN MEDITERRANEAN GRIL         280 W JEFFERSON ST         CS0022           BORDEN CHEMICAL         461 S 4TH ST         CS0022           BORIAN'S DELI         521 S 3RD ST         CS0022 </td <td></td> <td>2500 W MARKET ST</td> <td>CSO019</td>		2500 W MARKET ST	CSO019
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MARKET STREET FAMILY DENTISTRY PSC & 2410 W MARKET ST         CS0019           MCDONALD'S RESTAURANTS         520 N 22ND ST         CS0019           SPEEDWAY SUPERAMERICA         2112 DUNCAN ST         CS0019           SUBWAY SANDWICH SHOP         533 N 22ND ST         CS0019           CICIS PIZZA         939 E WASHINGTON ST         CS0020           ABC WELDING & REPAIR         1019 E MAIN ST         CS0020           ASHLAND INC         1004 E WASHINGTON ST         CS0020           HOME OF THE INNOCENTS         1100 E MARKET ST         CS0020           ALSAC SAINT JUDE CHILDRENS RESEARCH         215 W MUHAMMAD ALI BLVD         CS0022           ALIGU'S RESTAURANT         641 S 4TH ST         CS0022           BILU-ITALIAN MEDITERRANEAN GRIL         280 W JEFFERSON ST         CS0022           BICHAN'S DELI         531 S 4TH ST         CS0022           BORDEN CHEMICAL         462 S 4TH ST         CS0022           BORITRI'S DELI         521 S 3RD ST         CS0022           ENGLISH GRILL         335 W BROADWAY         CS0022           ENGLISH GRILL         335 W BROADWAY         CS0022           FEDEX KINKO'S         315 W MARKET ST         CS0022           JARAHAMS CAFE IN THE BROWN         335 W BROADWAY         CS0022	LIL GENIUS CHIL	323 N 25TH ST	CSO019
MCDONALD'S RESTAURANTS   520 N 22ND ST   CS0019		526 LOCHER ALY	CSO019
SPEEDWAY SUPERAMERICA         2112 DUNCAN ST         CS0019           SUBWAY SANDWICH SHOP         533 N 22ND ST         CS0019           CICIS PIZZA         939 E WASHINGTON ST         CS0020           ABC WELDING & REPAIR         1019 E MAIN ST         CS0020           ASHLAND INC         1004 E WASHINGTON ST         CS0020           HOME OF THE INNOCENTS         1100 E MARKET ST         CS0020           ALSAC SAINT JUDE CHILDRENS RESEARCH         215 W MUHAMMAD ALI BLVD         CS0022           ALSAC SAINT JUDE CHILDRENS RESEARCH         215 W MUHAMMAD ALI BLVD         CS0022           BAMIC'S RESTAURANT         641 S 4TH ST         CS0022           BU-ITALIAN MEDITERRANEAN GRIL         280 W JEFFERSON ST         CS0022           BORDEN CHEMICAL         462 S 4TH ST         CS0022           BORDEN CHEMICAL         462 S 4TH ST         CS0022           DMITRI'S DELI         531 S 4TH ST         CS0022           ENGLISH GRILL         335 W BROADWAY         CS0022           ENGLISH GRILL         335 W BROADWAY         CS0022           HARD ROCK CAFE LOUISVILLE         424 S 4TH ST         CS0022           HARD ROCK CAFE IN THE BROWN         335 W BROADWAY         CS0022           J GRAHAMS CAFE IN THE BROWN         335 W BROADWAY <td< td=""><td></td><td>2410 W MARKET ST</td><td>CSO019</td></td<>		2410 W MARKET ST	CSO019
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CICIS PIZZA			CSO019
ABC WELDING & REPAIR  1019 E MAIN ST  CSO020  ASHLAND INC  1004 E WASHINGTON ST  CSO020  HOME OF THE INNOCENTS  1100 E MARKET ST  CSO020  ALSAC SAINT JUDE CHILDRENS RESEARCH  ALSAC SAINT JUDE CHILDRENS RESEARCH  215 W MUHAMMAD ALI BLVD  CSO022  AMICC'S RESTAURANT  641 S 4TH ST  CSO022  BLU-ITALIAN MEDITERRANEAN GRIL  280 W JEFFERSON ST  CSO022  BORDEN CHEMICAL  462 S 4TH ST  CSO022  BORDEN CHEMICAL  462 S 4TH ST  CSO022  DMITRI'S DELI  531 S 4TH ST  CSO022  DMITRI'S DELI  521 S 3RD ST  CSO022  ENGLISH GRILL  335 W BROADWAY  CSO022  FEDEX KINKO'S  315 W MARKET ST  CSO022  HARD ROCK CAFE LOUISVILLE  424 S 4TH ST  CSO022  J GRAHAMS CAFE IN THE BROWN  335 W BROADWAY  CSO022  GUNZS BANQUET & CONFERENCE FACILITY  107 S 4TH ST  CSO022  KUNZS BANQUET & MARKET RESTAURANT  115 S 4TH ST  CSO022  CUISVILLE WATER COMPANY  550 S 3RD ST  CSO022  OUISVILLE WATER COMPANY  550 S 3RD ST  CSO022  OUISVILLE WATER COMPANY CORPORATE  550 S 3RD ST  CSO022  COUISVILLE WATER COMPANY CORPORATE  550 S 3RD ST  CSO022  COUISVILLE WATER COMPANY CORPORATE  550 S 3RD ST  CSO022		533 N 22ND ST	CSO019
ASHLAND INC 1004 E WASHINGTON ST CS0020 HOME OF THE INNOCENTS 1100 E MARKET ST CS0020 ALSAC SAINT JUDE CHILDRENS RESEARCH 215 W MUHAMMAD ALI BLVD CS0022 AMICC'S RESTAURANT 641 S 4TH ST CS0022 BBLU-ITALIAN MEDITERRANEAN GRIL 280 W JEFFERSON ST CS0022 BBLU-ITALIAN MEDITERRANEAN GRIL 462 S 4TH ST CS0022 BRIAN'S DELI 531 S 4TH ST CS0022 DMITRI'S DELI 531 S 4TH ST CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 FEDEX KINKO'S 315 W MARKET ST CS0022 J GRAHAMS CAFE IN THE BROWN 335 W BROADWAY CS0022 U GRAHAMS CAFE IN THE BROWN 335 W BROADWAY CS0022 KUNZS BANQUET & CONFERENCE FACILITY 107 S 4TH ST CS0022 KUNZ'S THE DUTCHMAN RESTAURANT 115 S 4TH AVE CS0022 CUISVILLE WATER COMPANY 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022			CSO020
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ALSAC SAINT JUDE CHILDRENS RESEARCH 215 W MUHAMMAD ALI BLVD CS0022  AMICC'S RESTAURANT 641 S 4TH ST CS0022  BLU-ITALIAN MEDITERRANEAN GRIL 280 W JEFFERSON ST CS0022  BORDEN CHEMICAL 462 S 4TH ST CS0022  BORDEN CHEMICAL 531 S 4TH ST CS0022  DMITR'S DELI 521 S 3RD ST CS0022  ENGLISH GRILL 335 W BROADWAY CS0022  ENGLISH GRILL 335 W BROADWAY CS0022  FEDEX KINKO'S 315 W MARKET ST CS0022  HARD ROCK CAFE LOUISVILLE 424 S 4TH ST CS0022  J GRAHAMS CAFE IN THE BROWN 335 W BROADWAY CS0022  KUNZ'S BANQUET & CONFERENCE FACILITY (175 S 4TH ST CS0022  KUNZ'S THE DUTCHMAN RESTAURANT 115 S 4TH ST CS0022  KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE CS0022  LOUISVILLE WATER COMPANY 550 S 3RD ST CS0022  LOUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022  PESTO'S ITALIAR RESTAURANT 566 S 5TH ST CS0022			
AMICC'S RESTAURANT 641 S 4TH ST CS0022 BLU-ITALIAN MEDITERRANEAN GRIL 280 W JEFFERSON ST CS0022 BORDEN CHEMICAL 462 S 4TH ST CS0022 BRIAN'S DELI 531 S 4TH ST CS0022 DMITR'S DELI 521 S 3RD ST CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 FEDEX KINKO'S 315 W MARKET ST CS0022 HARD ROCK CAFE LOUISVILLE 424 S 4TH ST CS0022 J GRAHAMS CAFE IN THE BROWN 335 W BROADWAY CS0022 KUNZ'S BANQUET & CONFERENCE FACILITY (17 S 4TH ST CS0022 KUNZ'S THE DUTCHMAN RESTAURANT 115 S 4TH AVE CS0022 KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE CS0022 LOUISVILLE WATER COMPANY 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022 PESTO'S ITALIAR RESTAURANT 566 S 5TH ST CS0022		1100 E MARKET ST	CSO020
AMICC'S RESTAURANT 641 S 4TH ST CS0022 BLU-ITALIAN MEDITERRANEAN GRIL 280 W JEFFERSON ST CS0022 BORDEN CHEMICAL 462 S 4TH ST CS0022 BRIAN'S DELI 531 S 4TH ST CS0022 DMITR'S DELI 521 S 3RD ST CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 ENGLISH GRILL 335 W BROADWAY CS0022 FEDEX KINKO'S 315 W MARKET ST CS0022 HARD ROCK CAFE LOUISVILLE 424 S 4TH ST CS0022 J GRAHAMS CAFE IN THE BROWN 335 W BROADWAY CS0022 KUNZ'S BANQUET & CONFERENCE FACILITY (17 S 4TH ST CS0022 KUNZ'S THE DUTCHMAN RESTAURANT 115 S 4TH AVE CS0022 KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE CS0022 LOUISVILLE WATER COMPANY 550 S 3RD ST CS0022 COUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST CS0022 PESTO'S ITALIAR RESTAURANT 566 S 5TH ST CS0022		215 W MUHAMMAD ALI BLVD	CSO022
BLU-ITALIAN MEDITERRANEAN GRIL  BORDEN CHEMICAL  462 S 4TH ST  CS0022  BRIAN'S DELI  531 S 4TH ST  CS0022  DMITRI'S DELI  521 S 3RD ST  CS0022  ENGLISH GRILL  335 W BROADWAY  CS0022  ENGLISH GRILL  5315 W MARKET ST  CS0022  HARD ROCK CAFE LOUISVILLE  424 S 4TH ST  CS0022  J GRAHAMS CAFE IN THE BROWN  335 W BROADWAY  CS0022  KUNZ'S BANQUET & CONFERENCE FACILITY  424 S 4TH ST  CS0022  KUNZ'S FOURTH & MARKET RESTAURANT  CS0022  KUNZ'S THE DUTCHMAN RESTAURANT  CS0022  CUISVILLE WATER COMPANY  550 S 3RD ST  CS0022  COUISVILLE WATER COMPANY  566 S 5TH ST  CS0022  CS0022	AMICC'S RESTAURANT		CSO022
S31 S 4TH ST			CSO022
DMITRI'S DELI         521 S 3RD ST         CSO022           ENGLISH GRILL         335 W BROADWAY         CSO022           FEDEX KINKO'S         315 W MARKET ST         CSO022           HARD ROCK CAFE LOUISVILLE         424 S 4TH ST         CSO022           J GRAHAMS CAFE IN THE BROWN         335 W BROADWAY         CSO022           KUNZS BANQUET & CONFERENCE FACILITY         17 S 4TH ST         CSO022           KUNZS FOURTH & MARKET RESTAURANT         115 S 4TH ST         CSO022           KUNZ'S THE DUTCHMAN RESTAURANT & LOI 115 S 4TH AVE         CSO022           LOUISVILLE WATER COMPANY         550 S 3RD ST         CSO022           LOUISVILLE WATER COMPANY CORPORATE         550 S 3RD ST         CSO022           PESTO'S ITALIAR RESTAURANT         566 S 5TH ST         CSO022			CSO022
DMITRI'S DELI         521 S 3RD ST         CS0022           ENGLISH GRILL         335 W BROADWAY         CS0022           FEDEX KINKO'S         315 W MARKET ST         CS0022           HARD ROCK CAFE LOUISVILLE         424 S 4TH ST         CS0022           J GRAHAMS CAFE IN THE BROWN         335 W BROADWAY         CS0022           KUNZS BANQUET & CONFERENCE FACILITY         107 S 4TH ST         CS0022           KUNZS FOURTH & MARKET RESTAURANT         115 S 4TH ST         CS0022           KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE         CS0022           COUISVILLE WATER COMPANY         550 S 3RD ST         CS0022           COUISVILLE WATER COMPANY CORPORATE         550 S 3RD ST         CS0022           PESTO'S ITALIAR RESTAURANT         566 S 5TH ST         CS0022			CSO022
ENGLISH GRILL       335 W BROADWAY       CS0022         FEDEX KINKO'S       315 W MARKET ST       CS0022         HARD ROCK CAFE LOUISVILLE       424 S 4TH ST       CS0022         J GRAHAMS CAFE IN THE BROWN       335 W BROADWAY       CS0022         KUNZS BANQUET & CONFERENCE FACILITY       17 S 4TH ST       CS0022         KUNZS FOURTH & MARKET RESTAURANT       115 S 4TH ST       CS0022         KUNZ'S THE DUTCHMAN RESTAURANT & LOI 115 S 4TH AVE       CS0022         LOUISVILLE WATER COMPANY       550 S 3RD ST       CS0022         LOUISVILLE WATER COMPANY CORPORATE       550 S 3RD ST       CS0022         PESTO'S ITALIAR RESTAURANT       566 S 5TH ST       CS0022		521 S 3RD ST	
HARD ROCK CAFE LOUISVILLE       424 S 4TH ST       CSO022         J GRAHAMS CAFE IN THE BROWN       335 W BROADWAY       CSO022         KUNZS BANQUET & CONFERENCE FACILITY       107 S 4TH ST       CSO022         KUNZ'S FOURTH & MARKET RESTAURANT       115 S 4TH ST       CSO022         KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE       CSO022         OUISVILLE WATER COMPANY       550 S 3RD ST       CSO022         OUISVILLE WATER COMPANY CORPORATE       550 S 3RD ST       CSO022         PESTO'S ITALIAR RESTAURANT       566 S 5TH ST       CSO022			
GRAHAMS CAFE IN THE BROWN   335 W BROADWAY   CSO022		315 W MARKET ST	CSO022
GRAHAMS CAFE IN THE BROWN   335 W BROADWAY   CS0022		424 S 4TH ST	
KUNZS BANQUET & CONFERENCE FACILITY       107 S 4TH ST       CSO022         KUNZS FOURTH & MARKET RESTAURANT       115 S 4TH ST       CSO022         KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE       CSO022         OUISVILLE WATER COMPANY       550 S 3RD ST       CSO022         OUISVILLE WATER COMPANY CORPORATE       550 S 3RD ST       CSO022         PESTO'S ITALIAR RESTAURANT       566 S 5TH ST       CSO022		335 W BROADWAY	
KUNZS FOURTH & MARKET RESTAURANT       115 S 4TH ST       CSO022         KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE       CSO022         OUISVILLE WATER COMPANY       550 S 3RD ST       CSO022         OUISVILLE WATER COMPANY CORPORATE       550 S 3RD ST       CSO022         PESTO'S ITALIAR RESTAURANT       566 S 5TH ST       CSO022		107 S 4TH ST	
KUNZ'S THE DUTCHMAN RESTAURANT & LO 115 S 4TH AVE         CS0022           OUISVILLE WATER COMPANY         550 S 3RD ST         CS0022           OUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST         CS0022           PESTO'S ITALIAR RESTAURANT         566 S 5TH ST         CS0022	(UNZS FOURTH & MARKET RESTAURANT	115 S 4TH ST	
OUISVILLE WATER COMPANY         550 S 3RD ST         CS0022           OUISVILLE WATER COMPANY CORPORATE         550 S 3RD ST         CS0022           PESTO'S ITALIAR RESTAURANT         566 S 5TH ST         CS0022		115 S 4TH AVE	
OUISVILLE WATER COMPANY CORPORATE 550 S 3RD ST         CS0022           PESTO'S ITALIAR RESTAURANT         566 S 5TH ST         CS0022	OUISVILLE WATER COMPANY	550 S 3RD ST (	
PESTO'S ITALIAR RESTAURANT 566 S 5TH ST CS0022			
	OUISVILLE WATER COMPANY CORPORATES	300 2 3 KD 2 I	30022
- :	ESTO'S ITALIAR RESTAURANT	566 S 5TH ST	

## APPENDIX 4B INVENTORY OF NDD IN MFWTP SERVICE AREA

	IVENTORY OF NDD IN MFWTP SER	Tributary to CSO#
Users Name (Dialogic Coverage)	Address	
SPIRE RESTAURANT & BAR	320 W JEFFERSON ST	CS0022 CS0022
STARBUCKS COFFEE	221 S 4TH ST 410 W CHESTNUT ST	CS0022
ALLIANCE FAMILY DENTAL CENTER ALTERNATIVE HEALTH	400 W MARKET ST	CS0022
AMERICAS TRUCK WASH AND CHROME	221 S 4TH ST	CSO022
ANTHONYS 4TH ST DELI	22 THEATER SQ	CSO022
ANTONIO'S PRIMIZIE PIZZA	2 THEATER SQ	CSO022
BADER'S FOOD MART	300 S 1ST ST	CSQ022
BANGS HAIR SALON	503 S 3RD ST	CSO022
BECKER LAW OFFICE PLLC	401 S 4TH ST	CSO022
BENKIS CHICAGO STYLE DELI	528 S 5TH ST	CSO022
CAFE KILIMANJARO	649 S 4TH ST	CSO022
CINTAS THE UNIFORM PEOPLE	400 S 4TH ST	CSO022
G E FINANCIAL ASSURANCE	462 S 4TH ST	CSO022
PEPPERS SPORTS BAR	320 W JEFFERSON ST	CS0022
PERFECT NAILS & HAIR	558 S 4TH ST	CS0022
SHEER IMAGE SAL	612 S 4TH ST	CS0022
SUBWAY SANDWICH SHOP	411 S 4TH ST	C\$0022
TGI FRIDAYS	415 S 4TH ST	C\$0022
WENDY'S OLD FASHIONED HAMBURGERS	411 S 4TH ST	CSO022
PERRY'S SNACK BAR	601 W BROADWAY	CSO026
0.1044	600 DR MARTIN LUTHER KING PL	CS0026
COURIER JOURNAL CIRCULATION	525 W BROADWAY	CS0026
COURIER JOURNAL CIRCULATION SERVICE		CSO026 CSO027
AMERICAN NAIL	701 W BROADWAY 729 S 6TH ST	CSO027 CSO028
CHILDRENS EDITION CHILD CARE		CS0028
CHILDREN'S EDITION CHILD CARE CENTER	729 S 6TH ST 632 W BROADWAY	CSO028
PHAT'S BAR AND GRILL	801 W BROADWAY	CSO030
BROADWAY CAFETERIA COMMUNITY COORDINATED CHILD CARE	908 W BROADWAY	CSO030
LG&E	820 W BROADWAY	CS0030
LG&E ENERGY SERVICES, INC	820 W BROADWAY	CSO030
SALON 502	1001 W BROADWAY	CS0030
4-C COMMUNITY COORDINATED CHILD CAR		CSO030
GAINES BEVERLY & ASSOCIATES MD PSC	305 W BROADWAY	CSO036
M RS ANALYTICAL LABORATORY	323 W BROADWAY	CSO036
MCDONALDS	207 W BROADWAY	CSO036
MCDONALD'S RESTAURANTS	207 W BROADWAY	CSO036
MR LEE'S HAIR SALON	325 W BROADWAY	CSO036
CITY CAFE	505 W BROADWAY	CSO038
KINDRED HEALTHCARE	445 W BROADWAY	CSO038
BROHM MICHAEL PHOTOGRAPHY	1026 W MAIN ST	CSO051
DAVID HARPE PHOTOGRAPHY	815 W MARKET ST	CSO053 150
GAVL'S RESTAURANT INC	222 S 7TH ST	CSO053 150
BIG HOPPS RESTAURANT	800 W MARKET ST	CSO053 150
PORTRAIT WAREHOUSE STUDIO	815 W MARKET ST	CS0053 150
TAYLOR BLDG CORP	800 W MAIN ST	CS0053 150
CONCRETE COATINGS	101 N 7TH ST	CS0054
LUIGIS PIZZERIA	702 W MAIN ST	CS0054
LULGL'S PLZZERIA	712 W MAIN ST	CSO054
ANOTHER PLACE DOWNTOWN PUB & SAND		CSO054
SUBWAY 12872	725 W MAIN ST 614 W MAIN ST	CSO055
BAYS BROWN LAB	614 W MAIN ST	CSO055
BRISTOL BAR & GRILLE HEAVEN HILL DISTILLERIES INC	528 W MAIN ST	CSO055
BAYS BROWN LABORATORIES INC	614 W MAIN ST	CSO055
LOS AZTECAS MEXICAN RESTAURANT NO 2		CSO055
MORTONS THE STEAKHOUSE LOUISVILLE	626 W MAIN ST	CSO055
SUBWAY	539 W MARKET ST	CSO055
CHARLES HEITZMAN BAKENRIES & CAFE	428 W MARKET ST	CSO056
DELTA RESTAURANT	434 W MARKET ST	CSO056
FUNKY PARROT RESTAURANT AND NIGHT (		CSO056
PERFECTION HAIRSTYLING BY PMINO	101 S 5TH ST	CSO056
SKYLINE CHILI	426 W MARKET ST	CSO056
VINCENZOS ITALIAN RESTAURANT	150 S 5TH ST	CSO056
4TH STREET LIVE	420 W LIBERTY ST	CSO056
A P GROCERY & DELI	225 S 5TH ST	CSO056
ALLEGRO	101 S 5TH ST	CSO056
BENTOYA RESTAURANT	217 S 5TH ST	CSO056
DINO'S SNACK SHOP	239 S 5TH ST	CSO056
QUIZNO'S CLASSIC SUBS	223 S 5TH ST	CSO056
HUGH & ED'S AUTO SERVICE	700 E MARKET ST	CSO058
UNSELD CHILD CARE & DEVELOPMENT CEN		CSO058
		CSO058
BLOOD BANK	352 E MARKET ST	
	632 E MARKET ST 632 E MARKET ST 515 E MARKET ST	CS0058 CS0058

### APPENDIX 4B INVENTORY OF NDD IN MFWTP SERVICE AREA

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
MCDONALDS RESTAURANT	420 E MARKET ST	CSO058
MEDICAL CENTER D M E /LLC	337 S PRESTON ST	CSQ058
MEDICAL LABORATORY CONSULTANTS PLI	.(221 S PRESTON ST	CSO058
MICHEL TIRES PL	434 E MARKET ST	CSO058
MICHEL TIRES PLUS	434 E MARKET ST	CSQ058
RISE AND SHINE CHILD CARE CENTER	207 S HANCOCK ST	CSO058
SERVICE TANKS	700 E MAIN ST	CSO058
J & M LABORATORIES	658 BARRET AVE	CSO083
JILLIAN'S	630 BARRET AVE	CSO083
KINDRED HOSPITAL LOUISVILLE	1313 SAINT ANTHONY PL	CSO083
BADER FOOD MART	1244 E BROADWAY	CSO084
BUFFALO WILD WINGS GRILL & BAR	1055 BARDSTOWN RD	CSO084
CHUCK RUBIN PHOTOGRAPHICS	1031 BARDSTOWN RD	CSO084
DAY CARE AT EASTERN STAR HOME	917 EASTERN STAR CT	CSO084
JACK FRYS	1007 BARDSTOWN RD	CSO084
KEY LIME HAIR SALON	2009 HIGHLAND AVE	CSO084
LEMONGRASS CAFE	1019 BARDSTOWN RD	CSO084
TACO BELL	1069 BARDSTOWN RD	CSO084
A NEW LIFE CHIROPRACTIC	1033 BARDSTOWN RD	CSO084
ABSENTEE BALLOTS BOARD OF ELECTIONS	810 BARRET AVE	CS0084
ARBYS ROAST BEEF RESTAURANT	1075 BARDSTOWN RD	CSO084
ARBY'S ROAST BEEF RESTAURANT	1075 BARDSTOWN RD	CSO084
ATMOSPHERE RESTAURANT & NIGHTCLUB	917 BAXTER AVE	CS0084
MOLLY MALONE'S IRISH PUB & RESTAURAN	933 BAXTER AVE	CS0084
MR TRANSMISSION	800 BAXTER AVE	CS0084
STARBUCKS COFFEE	970 BAXTER AVE	CSO084
STARDUST SALON INC	960 BAXTER AVE	CSO084
WICK'S PIZZA PARLOR & PUB	975 BAXTER AVE	CSO084
BAUMER'S QUALITY AUTOMOTIVE CARE	1757 MELLWOOD AVE	CSO088
KENTUCKIANA CHILDREN'S CENTER	1810 BROWNSBORO RD	CSO088
BAUMER'S QUALITY AUTO CARE LLC	1757 MELLWOOD AVE	CSO088
STARNS DENTAL LABORATORY	1107 E SAINT CATHERINE ST	CSO092
LEONARD BRUSH AND CHEMICAL	1450 MELLWOOD AVE	CSQ093
LEONARD BRUSH AND CHEMICAL COMPANY	1450 MELLWOOD AVE	CSO093
SPARTAN CHEMICAL CO	1450 MELLWOOD AVE	CSO093
SPEEDWAY PETROLEUM INC	1648 MELLWOOD AVE	CS0093
ARMSTRONG LABORATORY INC	1626 MELLWOOD AVE	CSO093
AUTOBAHN MOTORS	1501 MELLWOOD AVE	CSO093
MOBY DICK SEAFOOD RESTAURANTS	1500 MELLWOOD AVE	CSO093
QTC INC PARKSIDE GRILL	4532 W BROADWAY	CSO104
BROADWAY DENTAL PSC & ASSOCIATES	1813 W BROADWAY	CSO104
BROWN-FORMAN BEVERAGES WORLDWIDE	850 DIVIE HWY	CSO105
BURGER KING	2622 W BROADWAY	CSO105
CAROIYN'S HAIR & NALL BOUTIQUE II	2001 W BROADWAY	CSO105
CLASSIC BEAUTY SALON	2223 MAGAZINE ST	CSO105
CRYSTAL CLEAN CAR WASH	1701 W BROADWAY	CSO105
CUTTIN UP BEAUTY SALON	1921 W BROADWAY	CSO105
DINO # 2 FOODMART	2601 W BROADWAY	CSO105
GOLDEN COMB BEAUTY SALON	2300 W BROADWAY	
	2718 VIRGINIA AVE	CSO105
HEAVEN HILL DISTILLERIES INC BERNHEIM C		CSO105
NDILS FAST FOOD RESTAURANT	1033 W BROADWAY	CSO105
& N FOODMART	4132 W BROADWAY	CSO105
AY'S CAFETERIA	1812 W MUHAMMAD ALI BLVD	CSO105 CSO105
(FC	1911 W BROADWAY	CSO105
EE'S FAMOUS RECIPE COUNTRY CHICKEN		CSO105
PERRYMANS MORTUARY	3237 W BROADWAY	CSO105
SALON 502	723 S 43RD ST	
SMITH, EDWIN M DDS/DNTST	2413 W BROADWAY	CSO105
HE GREATEST CAR WASH LLC	2014 W BROADWAY	CSO105
HE LAUNDRY CONNECTION		CSO105
INIV OF LOUISVILLE	2600 W BROADWAY	CSO105
	1339 CYPRESS ST	CSO105
	2406 W BROADWAY	CSO105
INSELD CHILD CARE & DEVELOPMENT CEN		CSO105
VILLIAMS G C FUNERAL HOME 4TH ST LOUNGE	1935 W BROADWAY	CSO105
	617 S 24TH ST	CSO105
	1300 W CHESTNUT ST	CSO105
	2620 W CHESTNUT ST	CSO105
	1508 W KENTUCKY ST	CSO105
TIRE SHOP	1514 W OAK ST	CSO105
	2623 W BROADWAY	CSO105
	3014 HALE AVE	CSO105
	2827 HALE AVE	CSO105
NGIES HAIR SENAONSATIONS	1300 W BROADWAY	CSO105
	2900 W BROADWAY	CSO105

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
SHLAND INC	4407 ELLIOTT AVE	CSO105
UTO WAR EHOUSE BODY SHOP INC	1400 W BROADWAY	CSO105
UTOZONE	2131 W BROADWAY	CSO105
ILL'S AUTO SPRING SERVICE	827 S 15TH ST	CSO105
HOPSTICKS HOUSE	2112 W BROADWAY	CSO105
IDS KRADLE CHILD DEVELOPMENT CENTE		CSO105
		CSO105
ING'S FAST FOOD INC	2101 W BROADWAY	
INGS FAST FOODS INC	2101 W BROADWAY	CSO105
ROGER	2710 W BROADWAY	CSO105
ROGER	2916 GREENWOOD AVE	CSO105
ROGER L327	2710 W BROADWAY	CSO105
IL ANGELS CHILDCARE DEVELOPMENT CEI	687 S 38TH ST	C\$O105
L ANGELS ENRICHMENT CENTER	3719 W BROADWAY	CSO105
IL GENIUS CHILD CARE AND TECHNOLOGY	1121 W BROADWAY	CSO105
IL GENIUS CHILD CARE CENTER	1121 W BROADWAY	CSO105
L KINGS & QUEENS DEVELOPMENT KINGD		CSO105
ONG JOHN SILVER'S SEAFOOD SHOPPE	3407 W BROADWAY	CSO105
QUISVILLE FOIL PLANT	2827 HALE AVE	CSO105
OUISVILLE TESTING LABORATORY INC	1401 W CHESTNUT ST	CSO105
		CSO105
CDONALD'S	1212 W BROADWAY	
ICDONALD'S RESTAURANTS	1212 W BROADWAY	CSO105
CDONALD'S RESTAURANTS	2720 W BROADWAY	CSO105
IINI VERSITY EARLY CHILDHOOD LEARNING		CSO105
ORTON HEALTHCA	1670 HALE AVE	C\$O105
ORTON HEALTHCA	3707 W BROADWAY	CSO105
LE MEXICAN FOO	2211 DATE ST	C\$O105
OHS & AHHS HAIR AND NAIL SALON	3009 W BROADWAY	CSO105
ARK DUVALLE COMMUNITY HEALTH CENTE		CSO105
IZZA HUT	2733 W BROADWAY	CSO105
	1300 W CHESTNUT ST	CSO105
ORTER A D & SONS FUNERAL HOME		CSO105
ORTER PAINTS	2731 W BROADWAY	
ORTER PAINTS	300 S 13TH ST	CSO105
ORTER PAINTS	400 S 13TH ST	CSO105
ORTER W P MORTUARY	2611 VIRGINIA AVE	CSO105
ORTERS FUNERAL HOME	1300 W CHESTNUT ST	CSO105
ORTER'S MORTUARY	2611 VIRGINIA AVE	CSO105
PROFESSIONAL HAIR DESIGNERS	663 S 15TH ST	CSO105
UIZNOS	2500 W BROADWAY	CSO105
UIZNO'S	2500 W BROADWAY	CSO105
ALLY'S HAMBURGERS	2130 W BROADWAY	CSO105
EYNOLDS METALS COMPANY	2827 HALE AVE	CSO105
	1114 DIXIE HWY	CSO105
UTHS HAIR AFFAIR	673 CECIL AVE	CSO105
UD-CHEMIE INC		
ACO BELL	2801 W BROADWAY	CSO105
INIV OF LOUISVILLE	4221 W BROADWAY	CSO105
VENDYS OLD FASHIONED HAMBURGERS	1201 W BROADWAY	CSO105
VENDY'S OLD FASHIONED HAMBURGERS	1201 W BROADWAY	CSO105
MERICAN EXPRES	1818 FLEMING RD	CSO108
RENZEL'S CHEVRON SERVICE	2501 BARDSTOWN RD	CSO108
HEVRON BRENZELS SERVICE	2501 BARDSTOWN RD	CSO108
COLOR CRAFT PAINTING LLC	2221 VALLEY VISTA RD	CSO108
ARWIN'S PHOTOGRAPHY	2620 BARDSTOWN RD	CSO108
S E APPLIANCE	2019 LOWELL AVE	CSO108
	2228 WALTERDALE TER	CSO108
SE APPLIANCES		CSO108
IIGHLAND CLEANERS	2455 BARDSTOWN RD	
IFFY LUBE	2601 BARDSTOWN RD	CSO108
Y FRIED CHICKEN	1705 DUNDEE WAY	CSO108
IGHTNIN LUBE OIL CO	2520 BARDSTOWN RD	CSO108
ALON 1-2-3	2307 TAYLORSVILLE RD	CSO108
MOKEY BONES BB	2525 BARDSTOWN RD	CSO108
PPLEBEE'S NEIGHBORHOOD GRILL & BAR	2225 TAYLORSVILLE RD	CSO108
IGHLAND CLEANERS OFFICE AND PLANT	2455 BARDSTOWN RD	CSO108
Y FRIED CHICKEN	2531 DUNDEE RD	CSO108
ICDONALD'S RESTAURANTS	2209 TAYLORSVILLE RD	CSO108
IE KITCHEN	2525 BARDSTOWN RD	CSO108
	2515 WALLACE AVE	CSO108
ORCINI RESTAUR		CSO109
AELIN'S RESTAURANT	1801 NEWBURG RD	
PINELLI'S PIZZ	1816 RICHMOND DR	CSO109
UDUBON DENTAL HEALTH CENTER	1430 POPLAR LEVEL RD	CSO110
SUPERAMERICA	1422 POPLAR LEVEL RD	CSO110
ACO BELL EXPRESS	1422 POPLAR LEVEL RD	CSO110
AB CORP	1225 E BURNETT AVE	CSO111
OLAE LLC	1072 EASTERN PKWY	CSO111
AIRY MART	1056 E OAK ST	CSO113
PARROT CLEANERS	1133 ELLISON AVE	CSO113
	TITUO ELLIQUINAVE	1000110

BAPTIST TOWERS NO.	Users Name (Dialogic Coverage)	NVENTORY OF NDD IN MFWTP SEI Address	
BARBARA & ANN BEAUTY SHOP			
COMMANNY COORDINATED CHILD CARE   Dec 5 3RO ST	BARBARA & ANN BEAUTY SHOP		
DERBY CAFE	COMMUNITY COORDINATED CHILD CARE	960 S 3RD ST	
DIZZY WHAZ DRIVE IN   SANT CATHÉRINE ST		943 S SHELBY ST	
DOWNTOWN CHILD CARE INC			CSO117 149 179
FAMILY DOCTORS PSC   FOURTH STREET DENTAL CENTER PSC   1815 S PRESTON ST   C50117 149 179			CSO117 149 179
FOURTH STREET DENTAL CENTER PSO		911 S BROOK ST	
HAVE A NICE DAY CAFE			
HYMANA SCRAP CO KY			
JALEXANDERS R  KENTUCKIANS SHEET METAL  1501 S PRESTON ST  CSC0117 149 179  SHERWIN-WILLIAM  513 RAWLINGS ST  CSC0117 149 179  SHERWIN-WILLIAM  513 RAWLINGS ST  CSC0117 149 179  TOUCH OF GOLD BEAUTY SALON  213 W ORMSBY AVE  CSC0117 149 179  ADVANARY UNFORM  510 SET SET SET SET SET SET SET SET SET SET			
KENTUCKIANA SHEET METAL			
SHERWIN-WILLIAM		[	
SILVERCREST DRY CLEANERS   1038 S 41H ST   CSO117 149 179			
TOUCH OF GOLD BEAUTY SALON	SILVERCREST DRY CLEANERS		
ARAMARK UNIFORM   \$19 \$ FLOYD ST   C\$0117 149 179	TOUCH OF GOLD BEAUTY SALON	213 W ORMSBY AVE	
ARAMARK UNIFORM SERVICES INC		235 E BURNETT AVE	CSO117 149 179
AUDUSON HAIR NA  AWKARD RODGERS FUNERAL HOME  91 S PRESTON ST  CSO117 149 179  BIGFOOT FOOD STORES  309 E SAINT CATHERINE ST  CSO117 149 179  LEWISH HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  228 E ORANS PART  (KINDRED HOSPITA  229 E ORANS PART  (KINDRED HOSPITA  239 E ORAN ST  CSO117 149 179  KROGER  244 S 2ND ST  CSO117 149 179  (KOSPITA HOSPITA  (KINDRED HOSPITA  (			CSO117 149 179
AWKARD RODGERS FUNERAL HOME  BIS FOR TOOD STORES  BIGFOOT FOOD STORES  B			CSO117 149 179
BIGFOOT FOOD STORES   306 E SAINT CATHERINE ST   CSO117 149 179			
JEWISH HOSPITAL			CSO117 149 179
KINDRED HOSPITA			
KROGER   924 S 2ND ST   CS0117 149 179	NINDED HOSPITA		
KROGER RETAIL STORES			
LYONS FUNERAL HOME			
MAGNOLIA BAR & GRILL			
MASON GEORGE R SR FUNERAL HOME   977 S PRESTON ST   CSO117 149 179			
MIDAS AUTO SYST			
NORTON HEALTHCA			
OLD LOUISVILLE LAUNDRY & DRY CLEANER; 1036 S 4TH ST	NORTON HEALTHCA		
OLLIES TROLLEY	OLD LOUISVILLE LAUNDRY & DRY CLEANER	1036 S 4TH ST	
COMART			
PARADISE TOMATO KITCHENS	OMAR'S FOOD MART	329 E OAK ST	
PARADISE TOMATO KITCHENS INC		970 S 1ST ST	CSO117 149 179
RODGERS AWKARD FUNERAL HOME			CSO117 149 179
AL'S AUTO SERVICE 753 S CLAY ST CS0118 BLOOD & MARROW TRANSPLANT 529 S JACKSON ST CS0118 BLOOD & MARROW TRANSPLANT 529 S JACKSON ST CS0118 BLOOD & MARROW TRANSPLANT 529 S JACKSON ST CS0118 BOONE'S CHEVRON 601 E BROADWAY CS0118 BOONE'S CHEVRON 601 E BROADWAY CS0118 CARMERICA TIRE & SERVICE CENTER 701 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 GATEWAY REHABILIATION HOSPITAL 315 E BROADWAY CS0118 GATEWAY REHABILIATION HOSPITAL 315 E BROADWAY CS0118 INFECTIOLS DISEASE 550 JACKSON ST CS0118 INFECTIOLS DISEASE 550 JACKSON ST CS0118 KOSAIR CHILDREN'S HOSPITAL 231 E CHESTNUT ST CS0118 KOSAIR CHILDREN'S HOSPITAL 231 E CHESTNUT ST CS0118 KOSAIR CHILDREN'S HOSPITAL 231 E CHESTNUT ST CS0118 SEREWIN WILLIAMS CO 717 S 1ST ST CS0118 SHERWIN WILLIAMS CO 717 S 1ST ST CS0118 SHERWIN WILLIAMS CO 717 S 1ST ST CS0118 SPECTRA LABS 615 S PRESTON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 U OF L HEALTH CARE UNIVERSITY HOSPITAI 530 S JACKSON ST CS0118 UNIVERSITY OF LOUISVILLE DEATAL SCHOC 501 S PRESTON ST CS0118 AMCO TRANSMISSIONS CENT 434 E BROADWAY CS0118 AMCO TRANSMISSIONS CENT 434 E BROADWAY CS0118 AMCO TRANSMISSIONS CENT 434 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118 ASSOCIATES IN OBSTETRICS & GYNECOLO 210 E GRAY ST CS0118 BLO			CSO117 149 179
BLOOD & MARROW TRANSPLANT			
BLUE CROSS ANIMAL HOSPITAL BOONES CHEVRON 601 E BROADWAY CS0118 CARMERICA TIRE & SERVICE CENTER 701 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS CHOPSTICKS CHOPSTICKS 416 E BROADWAY CS0118 CHOPSTICKS CHO	ALS AUTO SERVICE		
BOONE'S CHEVRON		529 S JACKSON ST	<del> </del>
CARMERICA TIRE & SERVICE CENTER			
CHOPSTICKS			
CLASSIE CARWASH			
GATEWAY REHABILATION HOSPITAL   315 E BROADWAY			
HUMANA HOSPITAL UNIVERSITY OF LOUISVI 530 S. JACKSON ST		315 E BROADWAY	CSO118
INFECTIOUS DISEASE	HUMANA HOSPITAL UNIVERSITY OF LOUISVI	530 S JACKSON ST	
KOSAIR CHILDREN'S HOSPITAL   231 E CHESTNUT ST   CS0118     PEARL'S BEAUTY SALON   781 S CLAY ST   CS0118     SOUTHSIDE CHRISTIAN CHILD CARE   817 S 2ND ST   CS0118     SPECTRA LABS   615 S PRESTON ST   CS0118     TACO BELL   110 E BROADWAY   CS0118     U OF L HEALTH CARE UNIVERSITY   S30 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 530 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 530 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST   CS0118     U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST   CS0118     A C BRAKE CO INC   308 E COLLEGE ST   CS0118     A C BRAKE CO INC   308 E COLLEGE ST   CS0118     A ALIONATIC TRANSMISSIONS CENTE 434 E BROADWAY   CS0118     AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY   CS0118     AAMCO TRANSMISSIONS   434 E BROADWAY   CS0118     AAMERICAN CHIROPRACTIC   418 E BROADWAY   CS0118     AMERICAN CHIROPRACTIC   418 E BROADWAY   CS0118     AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST   CS0118     ASSOCIATES IN OBSTETRICS & GYN   210 E GRAY ST   CS0118     ASSOCIATES IN OBSTETRICS & GYN   210 E GRAY ST   CS0118     ASSOCIATES IN OBSTETRICS & GYNECOLO (210 E GRAY ST   CS0118     AUTO & TRUCK ALIGNMENT SERVICE INC   633 S CAMPBELL ST   CS0118     BLOOD DONOR SITES   S20 E CHESTNUT ST   CS0118     BLOOD DONOR SITES   S20 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CS0118     SEWISH HOSPITAL   735 S ZND ST	NFECTIOUS DISEASE	550 S JACKSON ST	
PEARL'S BEAUTY SALON	KOSAIR CHILDRENS HOSPITAL	231 E CHESTNUT ST	CSO118
SHERWIN WILLIAMS CO			CSO118
SOUTHSIDE CHRISTIAN CHILD CARE   817 S 2ND ST   CS0118			
SPECTRA LABS         615 S PRESTON ST         CS0118           TACO BELL         110 E BROADWAY         CS0118           U OF L HEALTH CARE UNIVERSITY         530 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 530 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST         CS0118           A C SO118         CS0118           A C SO118         CS0118           A C SO118         CS0118           A C SO118         CS0118           ALLIANT HEALTH SYSTEM         315 E BROADWAY         CS0118           ALLIANT HEALTH SYSTEM         315 E BROADWAY         CS0118           AMERICAN CHIROPRACTIC         418 E BROADWAY         CS0118           ASSOCIATED ORTHOPAEDICS PSC         210 E GRAY ST         CS0118           ASSOCIATES IN OBSTETR			
TACO BELL         110 E BROADWAY         CSO118           U OF L HEALTH CARE UNIVERSITY         530 S JACKSON ST         CSO118           U OF L HEALTH CARE UNIVERSITY HOSPITA 530 S JACKSON ST         CSO118           U OF L HEALTH CARE UNIVERSITY HOSPITA 550 S JACKSON ST         CSO118           UNIVERSITY OF LOUISVILLE DENTAL SCHOO 551 S PRESTON ST         CSO118           A C BRAKE CO INC         308 E COLLEGE ST         CSO118           AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY         CSO118           AAMCO TRANSMISSIONS         434 E BROADWAY         CSO118           ALLIANT HEALTH SYSTEM         315 E BROADWAY         CSO118           AMERICAN CHIROPRACTIC         418 E BROADWAY         CSO118           AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST         CSO118           ASSOCIATED ORTHOPAEDICS PSC         210 E GRAY ST         CSO118           ASSOCIATES IN OBSTETRICS & GYNECOLOQ 210 E GRAY ST         CSO118           ASSOCIATES IN OBSTETRICS & GYNECOLOQ 210 E GRAY ST         CSO118           AUTO & TRUCK ALIGNMENT SERVICE INC         633 S CAMPBELL ST         CSO118           BLOOD DONOR SITES         520 E CHESTNUT ST         CSO118           BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST         CSO118           JEWISH HOSPITAL         735 S 2ND ST         CSO118			
U OF L HEALTH CARE UNIVERSITY			
U OF L HEALTH CARE UNIVERSITY HOSPITA 530 S JACKSON ST CS0118  U OF L HEALTH CARE UNIVERSITY HOSPITA 550 S JACKSON ST CS0118  UNIVERSITY OF LOUISVILLE DENTAL SCHOC 501 S PRESTON ST CS0118  AC BRAKE CO INC 308 E COLLEGE ST CS0118  AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY CS0118  AAMCO TRANSMISSIONS 434 E BROADWAY CS0118  ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118  AMERICAN CHIROPRACTIC 418 E BROADWAY CS0118  AMERICAN CHIROPRACTIC 418 E BROADWAY CS0118  AMERICAN CHIROPRACTIC 418 E BROADWAY CS0118  ASSOCIATED ORTHOPAEDICS PSC 210 E GRAY ST CS0118  ASSOCIATED ORTHOPAEDICS & GYN 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLOQ 210 E GRAY ST CS0118  AUTO & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST CS0118  BLOOD DONOR SITES 520 E CHESTNUT ST CS0118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH LUNG SCR 713 HENRY FIRPO CS0118  KIDNEY CENTER 720 E BROADWAY CS0118			
U OF L HEALTH CARE UNIVERSITY HOSPITAL 550 S JACKSON ST UNIVERSITY OF LOUISVILLE DENTAL SCHOOL 501 S PRESTON ST AC BRAKE CO INC 308 E COLLEGE ST CS0118  AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY CS0118  AAMCO TRANSMISSIONS 434 E BROADWAY CS0118  ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118  AMERICAN CHIROPRACTIC 418 E BROADWAY CS0118  AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST CS0118  ASSOCIATED ORTHOPAEDICS PSC 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYN 210 E GRAY ST CS0118  AUTO & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST CS0118  BLOOD DONOR SITES 520 E CHESTNUT ST CS0118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH LUNG SCR 713 HENRY FIRPO CS0118  KIDNEY CENTER	LOF L HEALTH CARE LINIVERSITY HOSPITAL		
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A C BRAKE CO INC  AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY  AAMCO TRANSMISSIONS  434 E BROADWAY  CS0118  ALLIANT HEALTH SYSTEM  AMERICAN CHIROPRACTIC  418 E BROADWAY  CS0118  AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST  ASSOCIATED ORTHOPAEDICS PSC  210 E GRAY ST  CS0118  ASSOCIATES IN OBSTETRICS & GYN  210 E GRAY ST  CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLOG 210 E GRAY ST  CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLOG 210 E GRAY ST  CS0118	JNIVERSITY OF LOUISVILLE DENTAL SCHOOL	501 S PRESTON ST	
AAMCO AUTOMATIC TRANSMISSIONS CENTE 434 E BROADWAY CS0118  AAMCO TRANSMISSIONS 434 E BROADWAY CS0118  ALLIANT HEALTH SYSTEM 315 E BROADWAY CS0118  AMERICAN CHIROPRACTIC 418 E BROADWAY CS0118  AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST CS0118  ASSOCIATED ORTHOPAEDICS PSC 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYN 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLO 210 E GRAY ST CS0118  AUTO & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST CS0118  BLOOD DONOR SITES 520 E CHESTNUT ST CS0118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST CS0118  GENUINE PARTS CO 211 E COLLEGE ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH LUNG SCR 713 HENRY FIRPO CS0118  KIDNEY CENTER			
AAMCO TRANSMISSIONS  434 E BROADWAY  CS0118  ALLIANT HEALTH SYSTEM  315 E BROADWAY  CS0118  AMERICAN CHIROPRACTIC  418 E BROADWAY  CS0118  AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST  CS0118  ASSOCIATED ORTHOPAEDICS PSC  210 E GRAY ST  CS0118  ASSOCIATES IN OBSTETRICS & GYN  210 E GRAY ST  CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLO (210 E GRAY ST  CS0118  AUTO & TRUCK ALIGNMENT SERVICE INC  633 S CAMPBELL ST  CS0118  BLOOD DONOR SITES  520 E CHESTNUT ST  CS0118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST  GS0118  GENUINE PARTS CO  211 E COLLEGE ST  CS0118  JEWISH HOSPITAL  735 S 2ND ST  CS0118  KIDNEY CENTER  720 E BROADWAY  CS0118		434 E BROADWAY	
ALLIANT HEALTH SYSTEM  AMERICAN CHIROPRACTIC  418 E BROADWAY  CSO118  AMERICAN RED CROSS LOUISVILLE AREA C   510 E CHESTNUT ST   CSO118  ASSOCIATED ORTHOPAEDICS PSC   210 E GRAY ST   CSO118  ASSOCIATES IN OBSTETRICS & GYN   210 E GRAY ST   CSO118  ASSOCIATES IN OBSTETRICS & GYNECOLO( 210 E GRAY ST   CSO118  AUTO & TRUCK ALIGNMENT SERVICE INC   633 S CAMPBELL ST   CSO118  BLOOD DONOR SITES   520 E CHESTNUT ST   CSO118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST   CSO118  GENUINE PARTS CO   211 E COLLEGE ST   CSO118  JEWISH HOSPITAL   735 S 2ND ST   CSO118  JEWISH LUNG SCR   713 HENRY FIRPO   CSO118  KIDNEY CENTER   720 E BROADWAY   CSO118	AMCO TRANSMISSIONS		
AMERICAN CHIROPRACTIC 418 E BROADWAY CSO118  AMERICAN RED CROSS LOUISVILLE AREA C 510 E CHESTNUT ST CSO118  ASSOCIATED ORTHOPAEDICS PSC 210 E GRAY ST CSO118  ASSOCIATES IN OBSTETRICS & GYN 210 E GRAY ST CSO118  ASSOCIATES IN OBSTETRICS & GYNECOLO(210 E GRAY ST CSO118  ASSOCIATES IN OBSTETRICS & GYNECOLO(210 E GRAY ST CSO118  BLOOD & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST CSO118  BLOOD DONOR SITES 520 E CHESTNUT ST CSO118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST CSO118  GENUINE PARTS CO 211 E COLLEGE ST CSO118  JEWISH HOSPITAL 735 S 2ND ST CSO118  JEWISH HOSPITAL 735 S 2ND ST CSO118  JEWISH LUNG SCR 713 HENRY FIRPO CSO118  KIDNEY CENTER 720 E BROADWAY CSO118	LLIANT HEALTH SYSTEM		
ASSOCIATED ORTHOPAEDICS PSC 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYN 210 E GRAY ST CS0118  ASSOCIATES IN OBSTETRICS & GYNECOLO(210 E GRAY ST CS0118  AUTO & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST CS0118  BLOOD DONOR SITES 520 E CHESTNUT ST CS0118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST CS0118  GENUINE PARTS CO 211 E COLLEGE ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH LUNG SCR 713 HENRY FIRPO CS0118  KIDNEY CENTER 720 E BROADWAY CS0118	MERICAN CHIROPRACTIC	418 E BROADWAY	
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ASSOCIATES IN OBSTETRICS & GYNECOLO 210 E GRAY ST C50118  AUTO & TRUCK ALIGNMENT SERVICE INC 633 S CAMPBELL ST C50118  BLOOD DONOR SITES 520 E CHESTNUT ST C50118  BLOOD SERVICES RIVER VALLEY REGION RI 520 E CHESTNUT ST C50118  GENUINE PARTS CO 211 E COLLEGE ST C50118  JEWISH HOSPITAL 735 S 2ND ST C50118  JEWISH LUNG SCR 713 HENRY FIRPO C50118  KIDNEY CENTER 720 E BROADWAY C50118			
AUTO & TRUCK ALIGNMENT SERVICE INC			
SLOOD DONOR SITES			
BLOOD SERVICES RIVER VALLEY REGION R 520 E CHESTNUT ST CS0118  GENUINE PARTS CO 211 E COLLEGE ST CS0118  JEWISH HOSPITAL 735 S 2ND ST CS0118  JEWISH LUNG SCR 713 HENRY FIRPO CS0118  KIDNEY CENTER 720 E BROADWAY CS0118			
GENUINE PARTS CO         211 E COLLEGE ST         CSO118           JEWISH HOSPITAL         735 S 2ND ST         CSO118           JEWISH LUNG SCR         713 HENRY FIRPO         CSO118           KIDNEY CENTER         720 E BROADWAY         CSO118		DZU E CHESTNUT ST	
JEWISH HOSPITAL         735 S 2ND ST         CS0118           JEWISH LUNG SCR         713 HENRY FIRPO         CS0118           KIDNEY CENTER         720 E BROADWAY         CS0118			
JEWISH LUNG SCR         713 HENRY FIRPO         CSO118           KIDNEY CENTER         720 E BROADWAY         CSO118			
KIDNEY CENTER 720 E BROADWAY CSO118			
KIDS KORNER 204 E JACOB ST CSO118			

Users Name (Dialogic Coverage)	Address	Tributary to GSO#
LAB CORP	530 S JACKSON ST	CSO118
LIGHTSPEED PHOTOS	810 E BROADWAY	CSO118
LONG JOHN SILVER	805 E MADISON ST	CSO118
LONG JOHN SILVER'S SEAFOOD SHOPPE	400 E BROADWAY	CSO118
MANN CHEMICAL CORP	757 LOGAN ST	CSO118
MAY R G & SONS FUNERAL HOME INC	719 E CHESTNUT ST	CSO118
MCDONALDS RESTAURANT	231 E CHESTNUT ST	CSO118
MCDONALDS STORE	231 E CHESTNUT ST	CSO118
MEDICAL CENTER	235 ABRAHAM FLEXNER WAY	CSO118
MEDICAL CENTER	601 S FLOYD ST	CSO118
MEDICAL TOWERS SOUTH	234 E GRAY ST	CSO118
MEDLEY'S AUTO & TRUCK ALIGNMENT SER		CSO118
MEDLEYS AUTO TRUCK ALIGNMENT SERVIC		CSO118
MICHAEL MURPHYS RESTAURANT	701 S 1ST ST	CSO118
NORTON HEALTHCA	210 E GRAY ST	CSO118
NORTON HEALTHCARE	231 E CHESTNUT ST	CSO118
NORTON HEALTHCARE	315 E BROADWAY	CSO118
NORTON HEALTHCARE KOSALR CHILDRENS		CSO118
NORTON HEALTHCARE PAVILION	315 E BROADWAY	CSO118
NORTON HOSPITALS FOUNDATION	234 E GRAY ST	CSO118
NORTON MEDICAL PAVILLION	315 E BROADWAY	CSO118
NORTON METHODIST EVANGELICAL FOUND	234 E GRAY ST	CSO118
PEDIATRIC ENDOCRINOLOGY SPECIALIST P		CSO118
PEDIATRIC NEONA	213 E BROADWAY	CSO118
PEDIATRIC NEONATAL S	213 E BROADWAY	CSO118
RALLY'S HAMBURGERS	714 S 1ST ST	CSO118
J OF L INTERNAL MEDICINE GROUP	550 S JACKSON ST	CSO118
UNIV OF LOUISVILLE	627 S PRESTON ST	CSO118
UNIVERSITY OF LOUISVILLE HOSPITAL	530 S JACKSON ST	CSO118
ASSURANCE HOME & CONVALESCENT CAR		CSO120
AMERICAN COMMERCIAL INCORPORATED P	1032 E CHESTNUT ST	CSO121
HOUSMAN AUTOMOTIVE	909 E MARKET ST	CSO121
KIMS ASIAN GRILL	813 E MARKET ST	CSO121
MACKEY THOMAS CHILD DEVELOPMENT & F	923 E MUHAMMAD ALI BLVD	CSO121
NIKKI'S HAIR SALON	359 S CLAY ST	C\$0121
NUGENT AND ASSOCIATES PHOTOGRAPHY	107 S SHELBY ST	C\$0121
QUIZNO'S	717 E LIBERTY ST	CSO121
CAFE 360	1582 BARDSTOWN RD	CSO127
CHEVRON STATION	2294 LEXINGTON RD	CSO127
HICAMAS GRILL	1538 BARDSTOWN RD	CSO127
HIGHLAND AUTOMOTIVE	2036 MIDLAND AVE	CSO127
RENE'S SALON	1386 BARDSTOWN RD	CSO127
KALEIDOSCOPE HAIR SALON	1436 BARDSTOWN RD	CSO127
KT'S RESTAURANT & BAR	2300 LEXINGTON RD	CSO127
KY FRIED CHICKEN	1310 CHEROKEE RD	CSO127
LENTINIS ITALIAN RESTAURANT & SAIGON (		CSO127
UNIV OF LOUISVILLE	1432 CHEROKEE RD	CSO127
UPTOWN CAFE	1624 BARDSTOWN RD	CSO127
VALVOLINE INSTANT OIL CHANGE	1450 BARDSTOWN RD	CSO127
WALL STREET DEL	2549 GLENMARY AVE	CSO127
· · · · · · · · · · · · · · · · · · ·	2515 GRINSTEAD DR	CSO127
YALE CLEANERS AND LAUNDRY ZA'S PIZZA PUB	1573 BARDSTOWN RD	CSO127
	1381 BARDSTOWN RD	CSO127
ALAMEDA BAR & GRILL	2227 CHEROKEE PKWY	CSO127
DENTALWORKS		CSO127
KROGER CO #304	1412 WILLOW AVE	CSO127
CY FRIED CHICKEN	2021 BARINGER AVE	
LITTLE ITALY LENTINI	1543 BARDSTOWN RD	CSO127
MARKS FEED STORE BAR B Q & CATERING	1514 BARDSTOWN RD	CSO127
MARK'S FEED STORE BAR-B-Q & CATERING		CSO127
MARYANITA NURSERY SCHOOL	2468 GRINSTEAD DR	CSO127
NU YALE DRY CLEANERS	2515 GRINSTEAD DR	CSO127
OLMECAS MEXICAN RESTAURANT	1582 BARDSTOWN RD	CSO127
PIZZA GUY	1448 BARDSTOWN RD	CSO127
QDOBA MEXICAN GRILL	1500 BARDSTOWN RD	CSO127
REX UNDERGROUND BEAUTY SALON	2010 EDGELAND AVE	CSO127
SEVICHE A LATIN RESTAURANT	1538 BARDSTOWN RD	CS0127
HALLS CAFETERIA	1301 STORY AVE	CSO130
-IALL'S CAFETERIA	1301 STORY AVE	CSO130
HALL'S CATERING	1301 STORY AVE	CSO130
MEDICAL CENTER LAUNDRY	1400 STORY AVE	CSO130
CAFE LOU LOU	1800 FRANKFORT AVE	CSO131
BLACK SHEEP SAL	119 S KEATS AVE	CSO132 167
BOURBONS BISTRO	2255 FRANKFORT AVE	CSO132 167
BROWNSBORO HILLS NURSING HOME	2141 SYCAMORE AVE	CSO132 167
CLIFTON'S PIZZA COMPANY	2230 FRANKFORT AVE	CSO132 167
	2477 N PETERSON CT	CSO132 167

	NVENTORY OF NDD IN MFWTP SE	RVICE AREA
Users Name (Dialogic Coverage)	Address	Tributary to CSO#
CRESCENT HILL ANIMAL HOSPITAL PSC	2265 FRANKFORT AVE	CSO132 167
DECK VETERINARY CLINIC	2409 BROWNSBORO RD	CSO132 167
DJS BEAUTY SALON	2407 BROWNSBORO RD	CSO132 167
DOMINOS PIZZA	2400 BROWNSBORO RD	CSO132 167
EL RESTAURANT	2319 BROWNSBORO RD	CSO132 167
FAT JIMMY'S	2712 FRANKFORT AVE	CSO132 167
GREAT WALL CHINESE RESTAURANT	2206 BROWNSBORO RD	CSO132 167
HEADY ARCH L & SON FUNERAL DIRECTOR		CSO132 167
HESTON JERRY HAIRDRESSING	2708 FRANKFORT AVE	CSO132 167
HUTTSTER'S /RESTRNT	2900 BROWNSBORO RD	CSO132 167
JOY'S HAIR SALON KROGER	2019 BROWNSBORO RD	CSO132 167
L & N TRAINS & THINGS	2200 BROWNSBORO RD	CSO132 167
LABELLA DONNA BEAUTY SALON	2115 FRANKFORT AVE	CSO132 167
LEE'S FAMOUS RECIPE COUNTRY CHICKEN	1997 BROWNSBORO RD	CSO132 167
PERSIAN GRILL	2017 BROWNSBORO RD	CSO132 167
TUMBLEWEED SOUT	2505 LINDSAY AVE	CSO132 167
00986 MT HOLLY NURSING CTR	446 MOUNT HOLLY AVE	CSO132 167
ALLEN MAY STYHLIST & COLOURIST	2416 FRANKFORT AVE	CSO132 167
BABYLON ARABIAN RESTAURANT	1971 BROWNSBORO RD	CSO132 167
BAPTIST HOSPITA	312 N BIRCHWOOD AVE	CSO132 167
BARBARA LEE'S KITCHEN	2410 BROWNSBORO RD	CSO132 167
BEAVER BEVERLY DESIGN	2516 FRANKFORT AVE	CS0132 167 CS0132 167
BEVERLY HEALTHCARE MOUNT HOLLY	446 MOUNT HOLLY AVE	CSO132 167 CSO132 167
BLIMPIE SUBS AND SALADS	2020 BROWNSBORO RD	CSO132 167 CSO132 167
CAFFE CLASSICO	2144 FRANKFORT AVE	CSO132 167
CRESCENT HILL BEAUTY SALON	2638 FRANKFORT AVE	CSO132 167 CSO132 167
DIXIE DRY CLEANERS INC	2204 BROWNSBORO RD	CSO132 167
DOMINO'S PIZZA	2400 BROWNSBORO RD	CSO132 167
MCDONALD'S RESTAURANTS	2314 BROWNSBORO RD	CSO132 167
ODD SOCK LAUNDRY	225 N CLIFTON AVE	CSO132 167
ONE HOUR MARTINIZING	2331 BROWNSBORO RD	CSO132 167
PANERA BREAD CO	612 ROYER CT	CSO132 167
PATVS STEAK HOUSE	2437 BROWNSBORO RD	CSO132 167
PIZZA HUT	142 N BAYLY AVE	CSO132 167
PIZZA HUT	2407 BROWNSBORO RD	CSO132 167
PORCINI RESTAUR	2510 LINDSAY AVE	CSO132 167
PORCINI RESTAURANT	2730 FRANKFORT AVE	CSO132 167
RALLY'S HAMBURGERS	2011 BROWNSBORO RD	CSO132 167
RAY PARRELLAS ITALIAN CUISINE	2311 FRANKFORT AVE	CSO132 167
BAINT JOSEPHS CHILDRENS HOME	2823 FRANKFORT AVE	CSO132 167
ALON MERA	2315 BROWNSBORO RD	CSO132 167
UBWAY SANDWICHES & SALADS INIV OF LOUISVILLE	1979 BROWNSBORO RD	CSO132 167
	221 N CLIFTON AVE	CSO132 167
	227 MOUNT HOLLY AVE	CSO132 167
	1603 STEVENS AVE	CSO137
	1500 ARLINGTON AVE	CSO140
	1904 FRANKFORT AVE	CSO140
ALC A MODE DATE OF THE STATE OF	436 BAXTER AVE	CSO141
	426 BAXTER AVE	CSO141
	436 BAXTER AVE 612 BAXTER AVE	CSO141
	614 BAXTER AVE	CSO141
A110	508 BAXTER AVE	CSO141
Ell them do not a server and	620 RUBEL AVE	CSO141 CSO141
	2100 S PRESTON ST	CSO146
AFE AT THE LOUISVILLE ANTIQUE MALL TH		CSO146
	BOO ASH ST	CSO146
		CSO146
		CSO146
		CSO146
EREKS BAR & GRILL	1154 LOGAN ST	CSO146
WBRY BOSSE FUNERAL HOME INC FAMILY		CSO146
OUR STAR ALUMINUM		CSO146
OUR STAR ALUMINUM CO		CSQ146
REAT WOK		CSO146
CKORY HOUSE B		CSO146
CKORY HOUSE B B Q		CSO146
JELSMAN BAR & GRILL	·	CSO146
RS QUICK MART 7		CSO146
ABCORP 7		CSO146
ETIME PHOTOGRAPHY INC		CSO146
XUREE CLEANERS 2		CSO146
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		
EDBUD'S HOME COOKING CAFE	83 GOSS AVE	CSO146
EDBUD'S HOME COOKING CAFE SALON 2407 2	83 GOSS AVE	CSO146 CSO146

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
STARBUCKS COFFE	1059 E SAINT CATHERINE ST	CSO146
UNIV OF LOUISVILLE	1456 HOERTZ AVE	CSO146
ADVANCE BUSINESS MACHINES INC	1229 S SHELBY ST	CSO146
ANTIQUE MALL	900 GOSS AVE	CSO146
BAPTIST HOSPITA	908 CHARLES ST	CSO146
CAFETERIA & GYM	770 EASTERN PKWY	CSO146
DAIRY KASTLE	575 EASTERN PKWY	CSO146
DAIRY MART #256	2705 PRESTON HWY	CSO146
	2513 PRESTON HWY	CSO146
KFC RESTAURANT		CSO146
KFC RESTAURANT	800 READING RD	
KY FRIED CHICKEN	638 HARRISON AVE	CSO146
MARYANNE CECIL	867 FETTER AVE	CSO146
MEFFERT, LARRY J DMD/DNTST	822 EASTERN PKWY	CSO146
MO'S FOOD MART	1036 GOSS AVE	CSO146
MR GAFTI'S	2247 S PRESTON ST	CSO146
MR GATTIS	2247 S PRESTON ST	CSO146
MYERS, ALLAN L DR /DNTST	2404 S PRESTON ST	CSO146
PARROT BROCK CLEANERS	2707 PRESTON HWY	CSO146
PIZZA HUT	2508 PRESTON HWY	CSO146
PORTLAND PRINTING	1250 S SHELBY ST	CSO146
RALLY'S HAMBURGERS	2500 PRESTON HWY	CSO146
RUSSMAN & SON FUNERAL DIRECTORS	1041 GOSS AVE	CSO146
SMALLWORLD CHILD DEVELOPMENT CEN		CSO146
	936 BARRET AVE	CSO146
INTERMEDIATE CARE		
KROGER CO #304	1229 EASTERN PKWY	CSO148
GE APPLIANCE	1901 MAPLEWOOD PL	CSO151
APRIA HEALTHCAR	1835 DEERWOOD AVE	CSO151
AUDUBON GROUP CHEROKEE ANIMAL CL	INI 1601 EASTERN PKWY	CSO151
CHEROKEE ANIMAL HOSPITAL	1601 EASTERN PKWY	CSO151
LAB CORP	1955 DEER PARK AVE	CSO151
ARTS AND CRAFTS DENTAL	1160 BARDSTOWN RD	CSO152
BEARNOS PIZZA	1318 BARDSTOWN RD	CSO152
CITY CAFE INC	1250 BARDSTOWN RD	CSO152
DANE'S SALON	985 BARRET AVE	CSO152
DITTO'S GRILL	1114 BARDSTOWN RD	CSO152
GENTLE DENTAL	1221 BARDSTOWN RD	CSO152
	1250 BARDSTOWN RD	CSO152
HIGHLANDS FAMILY DENTISTRY		CSO152
LOVELY LADY HAIR STYLIST	911 BARRET AVE	
SUPERAMERICA	1101 BARDSTOWN RD	CSO152
WENDYS OLD FASHIONED HAMBURGERS	1108 BARDSTOWN RD	CSO152
LA PECHE CATERING	1147 BARDSTOWN RD	CSO152
BACCO SALON	1121 BARDSTOWN RD	CSO152
BEAUTY MARK SALON	1630 ELLWOOD AVE	CSO152
BRISTOL BAR & GRILLE	1321 BARDSTOWN RD	CSO152
CAFE MIMOSA	1216 BARDSTOWN RD	CSO152
LYNN'S PARADISE CAFE	984 BARRET AVE	CSO152
MCDONALD'S RESTAURANTS	1245 BARDSTOWN RD	CSO152
MODICA DAVID PHOTOGRAPHIC	1310 E BRECKINRIDGE ST	CSO152
PAPILON BAR & GRILL	1616 GRINSTEAD DR	CSO152
	1121 BARDSTOWN RD	CSO152
SALON BACCO		CSO152
WENDY'S OLD FASHIONED HAMBURGERS		CSO153
BAXTER STATION BAR & GRILL	1201 PAYNE ST	
OPTA FOOD INGRDNTS	1128 HULL ST	CSO153
TUMBLEWEED SOUTHWEST GRILL	1900 MELLWOOD AVE	CSO154
PETRUS RESTAURANT & NIGHTCLUB	116 E MAIN ST	CSO160
A WOMAN'S CHOICE RESOURCE CENTER		CSO161
SUBWAY SANDWICH SHOP	129 W MARKET ST	CSO161
BLISS SALON AND SPA	3743 LEXINGTON RD	CSO166
BOBBI & COMPANY SALON	104 CANNONS LN	CSO166
CHENOWETH ANIMAL HOSPITAL	3624 FRANKFORT AVE	CSO166
DIAMOND PUB & BILLIARDS	3814 FRANKFORT AVE	CSO166
EL TARASCO # 3	110 FAIRFAX AVE	CSO166
	3900 SHELBYVILLE RD	CSO166
ELEVATION SALON	300 MACON AVE	CSO166
HAIRIES SALON		CSO166
HEADS OR NAILS SALON INC	104 BAUER AVE	CSO166
HEUSTIS SERVICE CENTER	3330 FRANKFORT AVE	The state of the s
HOLY SPIRIT DAY CARE	3308 RICHARD AVE	CSO166
MASONIC HOME VILLAGE APARTMENTS	3701 FRANKFORT AVE	CSO166
PEARSON FUNERAL HOMES	149 BRECKENRIDGE LN	CSO166
SKY BAR AT SAINTS	131 BRECKENRIDGE LN	CSO166
STARBUCKS CORPORATION	513 MORNINGSIDE DR	CSO166
TONY BOOMBOZZ PIZZERIA	3334 FRANKFORT AVE	CSO166
VALVOLINE INSTANT OIL CHANGE	3800 LEXINGTON RD	CSO166
AAMÇO TRANSMISSIONS	126 BRECKENRIDGE LN	CSO166
	138 WILTSHIRE AVE	CSO166
ADMIRATIONS BEAUTY SALON	209 BRECKENRIDGE LN	CSO166
ADRIO ORTHODONTICS		

Users Name (Dialogic Coverage)	NVENTORY OF NDD IN MFWTP SEI Address	Tributary to CSO#
ALL 4 NAILS	108 FAIRFAX AVE	CSO166
BAZO'S FRESH MEXICAN GRILL	323 WALLACE AVE	CSO166
BOONE'S CHEVRON #3	3320 FRANKFORT AVE	CSO166
BUFFALO WILD WINGS GRILL & BAR	3900 SHELBYVILLE RD	CSO166
CAROLINE'S STYLING SALON	3306 FRANKFORT AVE	CSO166
H T FOODMART	3420 FRANKFORT AVE	CSO166
HIGHLAND CLEANERS	3708 LEXINGTON RD	CSO166
KFC	4020 SHELBYVILLE RD	CSO166
LAB CORP	3526 WILLIS AVE	CSO166
LIL LADIES & LADS INC	3819 WILLIS AVE	CSO166
LOOKS HAIR & NAILS SALON	201 BRECKENRIDGE LN	CSO166
MAKING WAVES HAIR SALON	3410 FRANKFORT AVE	CSO166
MASONIC HOMES OF KENTUCKY CORPORA	13701 FRANKFORT AVE	CSO166
MASONIC HOMES OF KENTUCKY-DEVE	3701 FRANKFORT AVE	CSO166
MEDICAL SPECAL!	205 MERIDIAN AVE	CSO166
NU YALE DRY CLEANERS	3782 LEXINGTON RD	CSO166
NU YALE SANITONE CLEANERS	3782 LEXINGTON RD	CSO166
PRUITTS CHEVRON	3795 LEXINGTON RD	CSO166
RATTERMAN BROTHERS FUNERAL HOME	3711 LEXINGTON RD	CSO166
RATTERMAN FAMILY FUNERAL HOMES	3711 LEXINGTON RD	CSO166
SAINT MATTHEWS HAIR STYLING & BARBER	3822 WII MINGTON AVE	CSO166
AUTO WHEEL & RIM SERVICE CO	900 S 7TH ST	CSO178
BEARNO'S PIZZA	611 W BRECKINRIDGE ST	CSO178
& Y FOOD MART	3801 W MARKET ST	CSO176
IVE STAR CLEANERS	3923 RIVER PARK DR	CSO189
GENTLE EXCELLENCE DENTAL	222 AMY AVE	CSO189
HARRIS AUTO REPAIR SHOP	3235 VERMONT AVE	CSO189
NDILS FAST FOOD RESTAURANT	3820 W MARKET ST	CSO189
CAREN AND CO HAIR SALON	526 S 18TH ST	CSO189
SHERYL'S KIDDIE KASTLE DAY CARE	205 N 38TH ST	CSO189
SPEEDWAY PETROLEUM INC	3320 W MARKET ST	CSO189
U DIESEL ELECTRIC INC	1833 W MARKET ST	CSO189
VAA CHIROPRACTI	2610 W MUHAMMAD ALI BLVD	CSO189
APRICOT HOUSE CHILD CARE	4140 LARKWOOD AVE	CSO189
RCADE BEAUTY SHOP	3923 BANK ST	CSO189
BAPTIST HOSPITA	333 CECIL AVE	CSO189
SIGFOOT FOOD ST	102 S 46TH ST	CSO189
DAD'S MUFFLER SHOP	3001 W MARKET ST	CSO189
PAIRY MART SOUTHEAST DIVISION	2728 W MARKET ST	CSO189
(FC	3831 W MARKET ST	CSO189
IL RASCALS CHILDCARE	3902 WEWOKA AVE	CSO189
OBY DICK SEAFOOD RESTAURANTS	2200 W MARKET ST	CSO189
ATTERMAN FAMILY FUNERAL HOMES	2114 W MARKET ST	CSO189
ATTERMAN J B & SONS FUNERAL HOME	2114 W MARKET ST	CSO189
OWLAND BILL CLEANERS & LAUNDRY	3149 RIVER PARK DR	CSO189
1 TIRE & BATTERY	1637 W MARKET ST	CSO190
DGILITY	1813 CROP ST	CSO190
EWISH MEDICAL	1800 NORTHWESTERN PKWY	CSO190
ING'S ONE-HOUR CLEANERS	211 S 18TH ST	CSO190
		CSO190
		CSO191
	4121 ALGONQUIN PKWY	CSO191
HAZ CONCRETE CO LLC	4121 ALGONQUIN PKWY	CSO191
	4110 ALGONQUIN PKWY	CSO191
EIL TANK SERVI		CSO191
	3808 BELLS LN	CSO191
AR TANK CLEANING & REPAIR	4107 BELLS LN	CSO191
AR TANK CLEANING & REPAIR SPECIALIST:	4107 BELLS LN	CSO191
JXURY MOBILE OIL	940 S 6TH ST	CSO192
URITAN MINI MART	1244 S 4TH ST	CSO195
		CSO195
		CSO200
		CSO202
- 1 Maria		CSO206
		CSO206
		CSO206
	2251 BARDSTOWN RD	CSO206
		CSO206
AMANTE BAR & GRILL		CSO206
		OSO206
		CSO206
		CSO206
DEX KINKO'S		CSO206
		CSO206
	1729 CASSELBERRY RD	J3U200
		250206 250206

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
MPELLIZZERI PIZZA	2306 BARDSTOWN RD	CSO206
J CLARK HAIR SALON	1949 BARDSTOWN RD	CSO206
KENTUCKY DENTAL ASSN	1940 PRINCETON DR	CSO206
K'S FOOD MART	1779 BARDSTOWN RD	CSO206
TONY BOOMBOZZ PIZZA	1914 BARDSTOWN RD	CSO206
TWIG & LEAF RESTAURANT	2122 BARDSTOWN RD	CSO206
WANDA'S BEAUTY BOUTIQUE	2310 DOROTHY AVE	CSO206
AMERICAN FAMILY ORTHODONTICS	1815 BARDSTOWN RD	CSO206
ASIATIQUE RESTAURANT	1767 BARDSTOWN RD	CSO206
CAFE METRO	1700 BARDSTOWN RD	CSO206
DENTAL WORKS	1815 BARDSTOWN RD	CSO206
KROGER	2440 BARDSTOWN RD	CSO206
KY FRIED CHICKEN	1902 RICHMOND DR	CSO206
KY FRIED CHICKEN	2218 WOODBOURNE AVE	CSO206
MR TRANSMISSION	107 SAINT FRANCIS CT	CSO206
PATIENT FIRST IMMEDIATE CARE LLC	2450 BARDSTOWN RD	CSO206
PIZZA MAGIA	1765 BARDSTOWN RD	CSO206
SAPPORO JAPANESE GRILL AND SUSHI	1706 BARDSTOWN RD	CSO206
UNIV OF LOUISVILLE	1913 ALFRESCO PL	CSO206
LAB CORP	2112 EASTERN PKWY	CSO209
LAB CORP 11111	2078 SHERWOOD AVE	CSO209
PLACE TO GO HAIR STYLING THE	1607 BARDSTOWN RD	CSO209
BOSSE FUNERAL HOME INC	1355 ELLISON AVE	DTC
EMERALD SPA BY STEEPLETON	927 E BROADWAY	DTC
HEADY ARCH L & SON FUNERAL DIRECTORS		DTC
AMERICAN CHIROP	1023 GRINSTEAD CT	DTC
AVISTA LABORATORIES, INC	2306 MEADOW RD	DTC
LONGINO'S RESTAURANT	4041 PRESTON HWY	DTC
ABORTION HELP EMW WOMENS SURGICAL	138 W MARKET ST	DTOR
BACK STAGE CAFE	133 W LIBERTY ST	DTOR
BLANTON HOUSE BEAUTY SALON	850 W MUHAMMAD ALI BLVD	DTOR
DENTAL CENTER THE	225 ABRAHAM FLEXNER WAY	DTOR
DENTAL IMPLANT CENTER OF LOUISVILLE	225 ABRAHAM FLEXNER WAY	DTOR
HOME OF INNOCEN	850 W MUHAMMAD ALI BLVD	DTOR
MPLANT CENTER DENTAL	225 ABRAHAM FLEXNER WAY	DTOR
JEWISH HOSPITAL	100 E LIBERTY ST	DTOR
JEWISH HOSPITAL	200 ABRAHAM FLEXNER WAY	DTOR
JEWISH HOSPITAL	217 E CHESTNUT ST	DTOR
KELL BROTHERS OIL CO INC	207 N CAMPBELL ST	DTOR
OLD SPAGHETTI FACTORY THE	235 W MARKET ST	DTOR
SERVICE PLUS CHEVRON #6	132 E JEFFERSON ST	DTOR
TAYLOR JAMES S MEMORIAL HOME	1015 MAGAZINE ST	DTOR
WALL STREET DELI	225 ABRAHAM FLEXNER WAY	DTOR
WALL STREET DELI	526 ARMORY PL	DTOR
ADVANCE READY MIX CONCRETE INC	161 N SHELBY ST	DTOR
ALLIANT HEALTH SYSTEM	200 E CHESTNUT ST	DTOR
ASSOCIATES IN GENERAL SURGERY PSC	201 ABRAHAM FLEXNER WAY	DTOR
BABCOCK CHRIS DMD MD JEWISH HOSP OU		DTOR
BAKER, WILLIAM T MD /PHYS	100 E LIBERTY ST	DTOR
BINGHAM CHILD GUIDANCE CENTER	200 E CHESTNUT ST 100 E JEFFERSON ST	DTOR
BRISTOL CAFE	222 S 1ST ST	DTOR
JEWISH HOSPITAL JEWISH HOSPITAL HEALTH CENTER MEADE		DTOR
SINDRED HOSPITAL HEALTH CENTER MEADE.		DTOR
	200 ABRAHAM FLEXNER WAY 207 N CAMPBELL ST	DTOR
M B OIL COMPANY INC		DTOR
M B OIL INC	207 N CAMPBELL ST	
MANHATTAN DELI	400 S 8TH ST	DTOR
MB OIL COMPANY	207 N CAMPBELL ST	DTOR
MEDICAL CENTER	225 ABRAHAM FLEXNER WAY	DTOR
MEDICAL CENTER	420 CLAVER CT	DTOR
	430 S 1ST ST	DTOR
MINI VERSITY CHILD DEVELOPMENT CENTER		DTOR
NORTON HEALTHCARE	200 E CHESTNUT ST	DTOR
NORTON HEALTHCARE NORTON HOSPITAL		DTOR
NORTON HEALTHCARE PHYSICIAN FINDER		DTOR
NORTON HOSPITAL	200 E CHESTNUT ST	DTOR
PREMIER LAB	1015 MAGAZINE ST	DTOR
A TOUCH OF CLASS /BTY SALON	2300 W OAK ST	MDS (CSO 211)
ATLAS METALS	3226 VIRGINIA AVE	MDS (CSO 211)
BLESSING'S HAIR & NAIL SALON	1910 S 7TH ST	MDS (CSO 211)
BUCKS RESTAURANT	425 W ORMSBY AVE	MDS (CSO 211)
BURGER KING	2700 CRITTENDEN DR	MDS (CSO 211)
BUSTER'S TRANSMISSION SERVICE	1223 S 7TH ST	MDS (CSO 211)
CASA DE ORA FOO	3701 W MAGNOLIA AVE	MDS (CSO 211)
CHINA INN	1925 S 4TH ST	MDS (CSO 211)
ALIHAY HAIA		

Users Name (Dialogic Coverage)	NVENTORY OF NDD IN MFWTP SE Address	
CHURCHILL DOWNS	Address  1455 S 6TH ST	Tributary to CSO#
CITY CAFE	1907 S 4TH ST	MDS (CSO 211)
COIT CARPET & DRAPERY CLEANERS	2730 CRITTENDEN DR	MDS (CSO 211)
COIT DRAPERY AND CARPET CLEANERS	2730 CRITTENDEN DR	MDS (CSO 211)
COMMUNITY COORDINATED CHILD CARE	1215 S 3RD ST	MDS (CSO 211)
CRACKER BARREL OLD COUNTRY STORE	2701 CRITTENDEN DR	MDS (CSO 211)
DADS MUFFLER SHOP	3332 TAYLOR BLVD	MDS (CSO 211)
DENNY'S RESTAURANT	434 EASTERN PKWY	MDS (CSO 211)
DERBY CAFE	704 CENTRAL AVE	MDS (CSO 211)
EL SHADDAI CHRISTIAN CHILD CARE	1230 S 3RD ST	MDS (CSO 211)
ETHEL'S BEAUTY SALON	3271 TAYLOR BLVD	MDS (CSO 211)
FILLI & FOAL CHILD CARE	422 HEYWOOD AVE	MDS (CSO 211)
HAGAN AUTOMOTIVE & TIRE	801 S 8TH ST	MDS (CSO 211)
HENRY VOGT MACHINE COMPANY	1000 W ORMSBY AVE	MDS (CSO 211)
HOUSE OF STYLE BEAUTY SALON	3337 GREENWOOD AVE	MDS (CSO 211)
HUNT, LARRY K DR/DNTST	2928 S 4TH ST	MDS (CSO 211)
JACK'S FAST FOOD	1785 W OAK ST	MDS (CSO 211)
JAMAAME RESTAURANT	416 W OAK ST	MDS (CSO 211) MDS (CSO 211)
JUJUS CAFE	2932 S 4TH ST	MDS (CSO 211)
KFC	3052 WILSON AVE	MDS (CSO 211)
LEE'S HOMEADE CAKES & PIES		MDS (CSO 211)
LEGENDS SALON	3314 W KENTUCKY ST 1118 S 3RD ST	MDS (CSO 211)
LIGGONS QUALITY CLEANERS		MDS (CSO 211)
LOUISVILLE WATE	1500 CATALPA ST	MDS (CSO 211)
MASTERSON'S	1809 S 3RD ST	MDS (CSO 211)
MODERN HAIR & NAIL	1830 S 3RD ST	MDS (CSO 211)
	2620 S 4TH ST	MDS (CSO 211)
PETTIT ENVIRONMENTAL SEVENTH & HILL	340 BYRNE AVE	MDS (CSO 211)
	1481 S 7TH ST	MDS (CSO 211)
SHAWN'S SALON	849 S 37TH ST	MDS (CSO 211)
SMURFIT-STONE R	750 S 11TH ST	MDS (CSO 211)
SMURFIT-STONE RECYCLING CO	750 S 11TH ST	MDS (CSO 211)
SOLAE LLC	2441 S FLOYD ST	MDS (CSO 211)
SONIC DRIVE IN	632 WINKLER AVE	MDS (CSO 211)
SPEEDWAY PETROLEUM INC	1418 DIXIE HWY	MDS (CSO 211)
SPEEDWAY PETROLEUM INC	3291 TAYLOR BLVD	MDS (CSO 211)
SUBWAY	1442 DIXIE HWY	MDS (CSO 211)
TACO BELL	1817 S BROOK ST	MDS (CSO 211)
TAILGATERS SPORTS BAR & GRILL	2787 S FLOYD ST	MDS (CSO 211)
THE LAUNDRY CONNECTION	1907 S 4TH ST	MDS (CSO 211)
THIRD AVENUE CAFE	1164 S 3RD ST	MDS (CSO 211)
TOOT'S BAR & GRILL	3283 TAYLOR BLVD	MDS (CSO 211)
UNIVERSAL LINEN	1317 S 6TH ST	MDS (CSO 211)
UNIVERSAL LINEN	1455 S 3RD ST	MDS (CSO 211)
UNIVERSAL LINEN SERVICE	1803 COMMERCE RD	MDS (CSO 211)
UNIVERSAL LINEN SERVICES	1803 COMMERCE RD	MDS (CSO 211)
UNSELD CHILD CARE & DEVELOPMENT CEN		MDS (CSO 211)
WHITE FUNERAL HOME	2727 S 3RD ST	MDS (CSO 211)
WHITE O D FUNERAL DIRECTORS	2727 S 3RD ST	MDS (CSO 211)
ZEO CHEM	1450 S 10TH ST	MDS (CSO 211)
ZEOCHEM	1600 W HILL ST	MDS (CSO 211)
32ND & GARLAND AUTO SERVICE CENTER	910 S 32ND ST	MDS (CSO 211)
3RD STREET AUTO	3904 S 3RD ST	MDS (CSO 211)
4TH AND CENTRAL FOOD MART		MDS (CSO 211)
7TH & HILL FAMILY DENTAL CENTER	1504 S 7TH ST	MDS (CSO 211)
A P FOODMART	2631 S 3RD ST	MDS (CSO 211)
A PLACE FOR US CHILDREN DEVELOPMENT		MDS (CSO 211)
A TASTE OF CHINA	1167 S 4TH ST	MDS (CSO 211)
A TIME TO GROW CHILD CARE	1757 W ORMSBY AVE	MDS (CSO 211)
ABBY'S PRINTING & GRAPHICS		MDS (CSO 211)
ALCAN ALUMINUM		MDS (CSO 211)
ALCAN ALUMINUM	1430 S 13TH ST	MDS (CSO 211)
ALLCAN ALLUMINUM		MDS (CSO 211)
ALLIED DRUM SERVICE INC		MDS (CSO 211)
ALTRO STEEL CORPORATION		MDS (CSO 211)
AMCO INC		MDS (CSO 211)
		MDS (CSO 211)
DAIRY QUEEN RESTAURANTS ALGONQUIN F		MDS (CSO 211)
		MDS (CSO 211)
		MDS (CSO 211)
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	7 ) V to 10 15 15 16 1 1 1 2 2 2	mDO (UUU 211)

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
KINGS FAST FOOD CHICKEN	1302 DIXIE HWY	MDS (CSO 211)
KROGER	3165 S 2ND ST	MDS (CSO 211)
LIL KINGS & QUEENS DEVELOPENT KINGDO		MDS (CSO 211)
LIL KINGS & QUEENS DEVELOPMENT KINGD LOUISVILLE PRIMARY CARE CENTER PSC	720 W HILL ST	MDS (CSO 211) MDS (CSO 211)
MARGARETS HAIR CARE	1132 DIXIE HWY	MDS (CSO 211)
MASTERSONS RESTAURANT	1830 S 3RD ST	MDS (CSO 211)
MCDONALD	844 S 34TH ST	MDS (CSO 211)
MCDONALD'S	301 E WARNOCK ST	MDS (CSO 211)
MCDONALD'S RESTAURANTS	301 E WARNOCK ST	MDS (CSO 211)
MCKEEHAN S MUFFLERS & BRAKES	2830 S 3RD ST	MDS (CSO 211)
MOBY DICK SEAFOOD RESTAURANTS	2700 S 3RD ST 869 S 3RD ST	MDS (CSO 211) MDS (CSO 211)
MR Z'S KITCHEN OLD LOUISVILLE DENTAL CENTER DNTST	1126 S 3RD ST	MDS (CSO 211)
OLD LOUISVILLE DENTURE CENTER	1126 S 3RD ST	MDS (CSO 211)
PAPA JOHNS INTERNATIONAL	3132 WHITMAN WAY	MDS (CSO 211)
PAPA JOHN'S PIZZA	2236 S FLOYD ST	MDS (CSO 211)
PARK DUVALLE COMMUNITY HEALTH CLINIC		MDS (CSO 211)
PARKWAY MEDICAL	2810 S 3RD ST	MDS (CSO 211)
PIZZA MAGIA	423 E WARNOCK ST	MDS (CSO 211) MDS (CSO 211)
PORTER PAINTS QUALITY DRY CLEANERS	801 S 3RD ST 1312 DIXIE HWY	MDS (CSO 211)
QUEENIE'S PIZZA	2622 S 4TH ST	MDS (CSO 211)
QUIZNOS	3173 S 2ND ST	MDS (CSO 211)
RATTERMAN FAMILY FUNERAL HOMES	2815 S 4TH ST	MDS (CSO 211)
REYNOLDS METALS	1225 W BURNETT AVE	MDS (CSO 211)
REYNOLDS METALS COMPANY	1225 W BURNETT AVE	MDS (CSO 211)
RUMPKE INC RUMPKE OF KENTUCKY	1101 W OAK ST 1101 W OAK ST	MDS (CSO 211) MDS (CSO 211)
RUMPKE OF KENTUCKY WASTE REMOVAL 8		MDS (CSO 211)
RUMPKE OF KY WASTE MANAGEMENT	1821 COMMERCE RD	MDS (CSO 211)
SAINT GOBAIN ADVANCED MATERIALS COR		MDS (CSO 211)
SAINT GOBAIN QUARTZ USA	1600 W LEE ST	MDS (CSO 211)
SAM MEYERS CLEANERS AND SHIRT LAUND		MDS (CSO 211)
SANTA FE GRILL SERVICE PRINTIN	3000 S 3RD ST 700 LOCUST LN	MDS (CSO 211) MDS (CSO 211)
SPEEDY MART	2210 ARTHUR ST	MDS (CSO 211)
SPEEDY MART	2704 CRITTENDEN DR	MDS (CSO 211)
SPEEDY MART	401 WINKLER AVE	MDS (CSO 211)
SUBWAY SANDWICHES & SALADS	216 W BROADWAY	MDS (CSO 211)
SUD-CHEMIE INC	1600 W HILL ST 607 INDUSTRY RD	MDS (CSO 211) MDS (CSO 211)
SUPERAMERICA	3030 TAYLOR BLVD	MDS (CSO 211)
UNIV OF LOUISVILLE	1712 S 3RD ST	MDS (CSO 211)
UNIV OF LOUISVILLE	1910 S 3RD ST	MDS (CSO 211)
UNIV OF LOUISVILLE	2000 UNITY PL	MDS (CSO 211)
UNIV OF LOUISVILLE	2022 UNITY PL 401 W CARDINAL BLVD	MDS (CSO 211) MDS (CSO 211)
UNIV OF LOUISVILLE UNIV OF LOUISVILLE	4103 GRAND AVE	MDS (CSO 211)
	3905 BISHOP LN	Northern Ditch & SW Sanitary Service Area (CSO 015
ATD GRAPHICS	4535 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
AUBURNDALE CHIROPRACTIC CENTER	7439 3RD STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
AUTO BODY OF LOUISVILLE INC	6300 FERN VALLEY PASS	Northern Ditch & SW Sanitary Service Area (CSO 015
AVIATION SOLUTIONS BAXTER HEALTHCARE CORPORATION	1177 STANDIFORD CT 4612 PLANE TREE DR	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
BECKY'S KOMPLETE HAIR CARE	5458 NEW CUT RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BENEKE WIRE	5540 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
BETTER WAY FOOD MART INC STORE 4	4001 CANE RUN RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BF SOUTH WENDY'S	2800 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BIG RED BOTTLING CO	6207 STRAWBERRY LN	Northern Ditch & SW Sanitary Service Area (CSO 015
BLUEGRASS KITCHEN CATERING	4735 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
BLUEGRASS ORTHO BOB EVANS FARMS RESTAURANTS	4301 FLUHR DR 4620 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
BOB'S AUTO SERVICE	5005 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BRIGHT BEGINNINGS CHILD DEVELOPMENT	5051 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BRIGHT BEGINNINGS II INFANT CARE CENTE	5034 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
BUILDING A RAINBOW CHILDCARE CENTER		Northern Ditch & SW Sanitary Service Area (CSO 015
CAPTAIN DS SEAFOOD RESTAURANT CARITAS JEFFERSON MEDICAL	3937 DIXIE HWY 1900 BLUEGRASS AVE	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
CAROL LA D'S HAIR DESIGNS	4012 E INDIAN TRL	Northern Ditch & SW Sanitary Service Area (CSO 015
CHERIE'S BEAUTY SALON	5027 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CHERYLS HAIR STUDIO	4309 NAOMI DR	Northern Ditch & SW Sanitary Service Area (CSO 015
	7420 3RD STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ICHINA EXPRESS	4930 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CINTAS CINTAS CORPORA	3103 FERN VALLEY RD 3103 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
UNITAS CURPURA	VIVO FERNI VALLET AU	Inditition Discuss a GVV Gamilary Service Area (CSC 015

Users Name (Dialogic Coverage)	INVENTORY OF NDD IN MFWTP SE Address	Tributary to CSO#
CONCRETE CORING & CUTTING OF LOUIS		Northern Ditch & SW Sanitary Service Area (CSO 015
CONCRETE CORING AND	471 ROBERTS AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
CRACKER BARREL OLD COUNTRY STO	2321 DEVERON DR	Northern Ditch & SW Sanitary Service Area (CSO 015
CREATIVE CONCEPTS HAIR SALON	839 PALATKA RD	Northern Ditch & SW Sanitary Service Area (CSO 015
CRUMS LANE ANIMAL HOSPITAL DR J SWIG	GE2115 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
DADDY O'S FISH AND WEDGES	4908 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DE VIIL'S GRILLE & CATERING	4900 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DENTAL SERVICES INC	5014 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
DINO FOOD MART	5014 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
DTS BAR & GRILL	4652 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
EL TARASCO	5425 NEW CUT RD	Northern Ditch & SW Sanitary Service Area (CSO 015
EVERGREEN FUNERAL HOME & CEMETERY	4623 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
FABRICATED METALS CORP	6300 KENJOY DR	Northern Ditch & SW Sanitary Service Area (CSO 015
FAMILY-A-HAIR SALON	2816 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
FAT J'S EAT SHOPPE	4325 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
FAZOLI'S	6011 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
FIRST STOP	4903 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
FIRST STOP FOOD MART	5600 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
FIRST STOP#2	3700 MANSLICK RD	Northern Ditch & SW Sanitary Service Area (CSO 015
FIVE STAR FOOD MART	2720 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
FOUR KMING'S CAFE INC	4642 JENNINGS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
FRISCH'S BIG BOY RESTAURANTS	6510 SIGNATURE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
GARDNER'S DRY CLEANERS	2121 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
GE APPLIANCE	4000 BUECHEL BANK RD	Northern Ditch & SW Sanitary Service Area (CSO 015
HACKERS SPORTS BAR & GRILL	2806 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
HAIR V /BTY SALON	4211 HILLVIEW AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
HEAVENLY HAIR SALON	2720 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
HOSTESS CAKE CO	4563 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
NDILS FAST FOOD RESTAURANT	4901 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JEFFERSON MEDICAL ASSOCIATES	1900 BLUEGRASS AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
JIFFY LUBE	6508 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
JIM DANDY FOOD MART	4902 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
JO-MITRAS HAIR SALON	5040 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
KEENANS FUNERAL HOME	4724 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
KEN TOWER'S AUTO CA	6919 SOUTHSIDE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
KEN TOWERYS AUTO CENTERS SOUTHSIDE	6919 SOUTHSIDE DR	Northern Ditch & SW Sanitary Service Area (CSO 015)
COREANA RESTAURANT II	5009 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
KRISPY-KREME DOUGHNUT CO	3920 7TH STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
A MEXICANA	6201 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015)
AB CORP	1231 DURRETT LN	Northern Ditch & SW Sanitary Service Area (CSO 015
EE ROY'S SPORTS BAR & GRILL	5000 POPLAR LEVEL RD	
-G&E	1505 PAULA CT	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
ICKETY SPLIT FOOD AND GAS MART	5440 NEW CUT RD	Northern Ditch & SW Sanitary Service Area (CSO 015
QUALITY ALUMINUM PRODUCTS INC	5559 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
SENEBA RESTAURANT	1215 GILMORE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
SHERWIN WILLIAMS CO		Northern Ditch & SW Sanitary Service Area (CSO 015
SHERWIN WILLIAMS CO		Northern Ditch & SW Sanitary Service Area (CSO 015
SHERWIN-WILLIAMS CO-SHERWORKS	4702 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
SHONEYS RESTAURANTS	6511 SIGNATURE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
SOUTHSIDE CHRISTIAN CHILD CARE	7149 SOUTHSIDE DR	
SPECTATORS SPORTS BAR & GRILL		Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
QUARE D COMPANY	8001 CRITTENDEN DR	Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFTY SERVICE STATION	3611 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
SWIFTY SERVICE STATION		Northern Ditch & SW Sanitary Service Area (CSO 015
EXAS ROADHOUSE		Northern Ditch & SW Sanitary Service Area (CSO 015
HE LAUNDRY CONNECTION		Northern Ditch & SW Sanitary Service Area (CSO 015
OWERYS KEN AUTO CARE SUPER CENTER		Northern Ditch & SW Sanitary Service Area (CSO 015
INITEDDEFENSE		Northern Ditch & SW Sanitary Service Area (CSO 015
JPS AIR DISTRICT		Northern Ditch & SW Sanitary Service Area (CSO 015
IPS UNITED PARCEL SERVICE		Northern Ditch & SW Sanitary Service Area (CSO 015
A HEALTHCARE CENTER SHIVELY		Northern Ditch & SW Sanitary Service Area (CSO 015
ALVOLINE INSTANT OIL CHANGE		Northern Ditch & SW Sanitary Service Area (CSO 015
INCENTS QUALITY AUTO CARE		Northern Ditch & SW Sanitary Service Area (CSO 015
VAFFLE HOUSE		Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
YNN STARR FOODS OF KENTUCKY INC		Northern Ditch & SW Sanitary Service Area (CSO 015
& A CONCRETE SAWING & DRILLING INC		Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
	5422 NEW CUT RD	Northern Ditch & SW Sanitary Service Area (CSO 015
	V-164 114 XX XXX 1 XXX	Northern Ditch & SW Sanitary Service Area (CSO 015
	5017 PRESTON HIMY	Morthorn Ditals 9 CM/ Casitas, Casitas, 8 /CCC and a
PLUS PROFESSIONAL PET GROOMING	5017 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
PLUS PROFESSIONAL PET GROOMING V C DENTAL	5017 PRESTON HWY 5036 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
PLUS PROFESSIONAL PET GROOMING V C DENTAL 1 ALUMINUM	5017 PRESTON HWY 5036 POPLAR LEVEL RD 3279 CHINQUAPIN LN	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
PLUS PROFESSIONAL PET GROOMING V C DENTAL 1 ALUMINUM -1 ALUMINUM INC	5017 PRESTON HWY 5036 POPLAR LEVEL RD 3279 CHINQUAPIN LN 4405 KILN CT	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
PLUS PROFESSIONAL PET GROOMING V C DENTAL 1 ALUMINUM -1 ALUMINUM INC BLE QUALITY PRINTING	5017 PRESTON HWY 5036 POPLAR LEVEL RD 3279 CHINQUAPIN LN 4405 KILN CT 4550 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
PLUS PROFESSIONAL PET GROOMING V C DENTAL 1 ALUMINUM -1 ALUMINUM INC BLE QUALITY PRINTING CCUNRITE MACHINE & MANUFACTURING IN	5017 PRESTON HWY 5036 POPLAR LEVEL RD 3279 CHINQUAPIN LN 4405 KILN CT 4550 POPLAR LEVEL RD 4421 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015

ACTION TRANSMISSIONS  315 FERN VALLEY RD  Norbern Ditch & SW Santay, Service Akes (SS 015 ACU FA DIVER STORY OF THE STORY	Users Name (Dialogic Coverage)	Address	Tributary to CSO#
ADU DENTAL LABORATORY OF KENTUCKY IN 441 FOR IAR LEVEL RD  ADVANCED BRONE EXCHANGE  1009 LIRCH AVE  Nothern Dish & SW Sanitay Service Avea (CSC) 015  ADVANCED GRIRDING & MACHINE INC  404 LUNOIS AVE  Nothern Dish & SW Sanitay Service Avea (CSC) 015  ADVANCED GRIRDING & MACHINE INC  404 LUNOIS AVE  Nothern Dish & SW Sanitay Service Avea (CSC) 015  ADVANCED GRIRDING & MACHINE INC  405 EFFA CT  ALPONIA AND BUDS FRAME & BODY REPAIR AUTO  405 EFFA CT  ALADOBU SROCERY STORE  ALADOBU SROCERY STORE  405 EFFA CT  ALADOBU SROCERY STORE  405 EFFA CT  ALADOBU SROCERY STORE  405 EFFA CT  ALADOBU SROCERY STORE  405 EFFA CT  ALADOBU SROCERY STORE  405 EFFA CT  ALADOBU SROCERY STORE  405 INDUSTRIAL AND BUDS FRAME & BODY SANITA & BODY SAN		3215 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
ADVANCED ENGINE EXCRANGE  ADVANCED ENGINE EXCRANGE  ADVANTAGE CARE MEDIOLA SERVICES  3005 BISHOP LIN  Northern Ditch & SW Sanatary Service Area (CSO 015  ADVANTAGE CARE MEDIOLA SERVICES  3005 BISHOP LIN  Northern Ditch & SW Sanatary Service Area (CSO 015  ADVANTAGE CARE MEDIOLA SERVICES  3005 BISHOP LIN  Northern Ditch & SW Sanatary Service Area (CSO 015  ARLHAUS ALJMINUM CO  ARLHAUS	A-CUT ABOVE PRINT SHOP	5433 NEW CUT RD	
ADVANTAGE CARR MEDICAL SERVICES  APPORTAGE THE COMPANY  ASSO POPULAR LEVEL RD  Northern Dish & SW Sanitary Service Area (CSO 015  AFFORDABLE THE COMPANY  ASSO POPULAR LEVEL RD  Northern Dish & SW Sanitary Service Area (CSO 015  AFFORDABLE THE COMPANY  ASSO POPULAR LEVEL RD  Northern Dish & SW Sanitary Service Area (CSO 015  AFFORDABLE THE COMPANY  ASSO POPULAR LEVEL RD  Northern Dish & SW Sanitary Service Area (CSO 015  AFFORDABLE THE COMPANY  ASSO POPULAR LEVEL RD  Northern Dish & SW Sanitary Service Area (CSO 015  ALCOA ALUMINUM AND WIN'L SIDING  ALCOA ALUMINUM AND WIN'L SIDING  ALCOA EXTRIPORT  ALCOA EXTRIPO	ADL DENTAL LABORATORY OF KENTUCKY IN		
ADVANTAGE CARE MEDICAL SERVICES  460 POPILA I EVEL IR 0  Morthern Ditch & 5W Sanatury Service Area (CSO 015  ARI-HAUS ALLMRING COMPANY  460 POPILA I EVEL IR 0  Morthern Ditch & 5W Sanatury Service Area (CSO 015  ALCOA ELMRING AND COMPANY  460 POPILA I EVEL IR 0  Morthern Ditch & 5W Sanatury Service Area (CSO 015  ALADOBUS FRAME & BODY REPAIR AUTO 442 DOWNEST EN 1  ALCOA ALLMRING AND WINT SIDING  460 PART AND BUSS FRAME & BODY REPAIR AUTO 442 DOWNEST EN 1  ALCOA ALLMRING AND WINT SIDING  461 POPILA I EVEL SERVICE BO  462 POPILA I EVEL SERVICE BO  462 POPILA I EVEL SERVICE BO  464 POPILA I EVEL SERVICE BO  465 POPILA I EVEL SERVIC	ADVANCED ENGINE EXCHANGE		
AFFORDABLE TIRE COMPANY  4500 FOPLAR LEVEL RD  Northern Ditch & SW Sanatury Service Area (CSO 015  AI AND BUD'S FRAME & BODY REPAIR AUTO 42 DOWNES TER  Northern Ditch & SW Sanatury Service Area (CSO 015  AI AND BUD'S FRAME & BODY REPAIR AUTO 42 DOWNES TER  Northern Ditch & SW Sanatury Service Area (CSO 015  ALADDIN AGROCKEY STORE  2228 ROCKFORD IN  Northern Ditch & SW Sanatury Service Area (CSO 015  ALCOA  ACADAM CALLEMAN AND MINN'L SIDING  4301 PRODUCE RK  AND ROCKFORD IN  Northern Ditch & SW Sanatury Service Area (CSO 015  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  ALVINS AUTO SERVICE NO  AMERICAN CHIROPPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanatury Service Area (CSO 015  AMERICAN CHIROPPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanatury Service Area (CSO 015  AMERICAN CHIROPPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanatury Service Area (CSO 015  AMERICAN CHIROPPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanatury Service Area (CSO 015  AMERICAN CHIROPPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanatury Service Area (CSO 015  ANNIES PIZZA NO  ANNIES PIZ			
ALLDAID SALUMNUM CO  ALADDUS FRANKE & BODY REPAIR AUTO 42 DOWNEST ER.  Northern Dich. & SW Sanishay Service Area (CSO 015  ALADDU ROCCERY STORE  2322 ROCKFORD IN  Northern Dich. & SW Sanishay Service Area (CSO 015  ALCOA  ALCO			
ALADDIN GROCKY STORE  2328 ROCKFORD IN Northern Dich & SW Sanitary Service Area (CSO 015 ALCONA ALLADIN GROCKY STORE  2328 ROCKFORD IN Northern Dich & SW Sanitary Service Area (CSO 015 ALCONA ALLANINUM AND VINYL SIDING  2401 PRODUCE RD  3401 PR	AFFORDABLE TIRE COMPANY		
ALADOIN GROCERY STORE			
ALCOA ALUNINUM AND VINYL SIDING			
ALCOA EXTRUSION AND UNIV. SIDING			
ALCOA EXTRUDED  4301 PRODUCE RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  AMERICAN CHIROP  AMERICAN CHIROP  5102 CRAFTY DR  Northern Ditch & SW Sanlary, Service Area (CSO 015  AMERICAN CHIROPACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANIBASIA METRO ANIBASI, SERVICES  3705 MANSLOK RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANIBASI METRO ANIBASI, SERVICES  3705 MANSLOK RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANICHTER LEVEL, BEAUTY, SALON  4027 CARE RUN RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  ANICHTER LEVEL, BEAUTY, SALON  4028 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PRODUCE  4038 PROD		· · · · · · · · · · · · · · · · · · ·	Northern Ditch & SW Sanitary Service Area (CSO 015
ALVIN'S AUTO SERVICE INC  4011 CARE RUN RD  AMERICAN CHIROPO  5102 CRAFTY DR  Northern Ditch & SW Sanlary, Service Area (CSO 015  AMERICAN CHIROPRACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  AMERICAN CHIROPRACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANINGAL SW FERD ANNAL SERVICES  3105 MANSLICK RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ANINGAL SW FERD ANNAL SERVICES  3106 MANSLICK RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ARPEX DIV. OF COOPER NOUSTRES INC  4237 FERNSON  APPEX DEEPS NEGROROO GRILL & BAR 177 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 015  ARBYS  ARRYS TURE & LUBE OF LOUSVILLE  3402 FOR LAND ANNAL SERVICES  4222 POPLAR LEVEL RD  Northern Ditch & SW Sanlary, Service Area (CSO 015  ARBYS  ARTS TURE & LUBE OF LOUSVILLE  3403 FERN VALLEY RD  Northern Ditch & SW Sanlary, Service Area (CSO 016  AUDITON TECHNOLOGY INC  3440 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 016  AUTOZONE  3440 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 016  AUTOZONE  3440 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 016  AUTOZONE  3440 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 016  AUTOZONE  3440 DIVE HWY  Northern Ditch & SW Sanlary, Service Area (CSO 016  AVATION TECHNOLOGY INC  3457 BANAL TRILL  3477 E NORAN TRILL  AVATED TO SERVICE  3478 POPLAR LEVEL RD  AVATED TO THORN TO THE SERVICE  3478 POPLAR LEVEL RD  AVATED TO THORN TO THE SERVICE  3479 BANAL TRILL  AVATED TO THORN TO THE SERVICE  3470 BANAL TRILL  3470 BANAL T	· · · · · · · · · · · · · · · · · · ·		
AMERICAN CHIROP  AMERICAN CHIROP ACTION  310 FERRI VALLEY RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANIMALIS METRO ANIMAL SERVICES  3705 MANSLICK RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANIMES REZA NG  4007 CANE RUN RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANOTHER LEVEL BEAUTY SALON  4025 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANOTHER LEVEL BEAUTY SALON  4025 POPLAR LEVEL RD  Northern Ditch & SW Sanitary Service Area (CSO 015  APPELDER S NEICHBORHOOD GRILL & BAR 4777 DIME HW  APPLEBERS NEICHBORHO			
AMERICAN CHIROPRACTIC  3101 FERN VALLEY RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANNIALS METRO ANIMALS ERVICES  4007 CANE RUN RD  4007 CANE RUN RD  Northern Ditch & SW Sanitary Service Area (CSO 015  ANNIES PIZZA INC  4007 CANE RUN RD  4007 CANE RUN RD  Northern Ditch & SW Sanitary Service Area (CSO 015  APEX DRV OF COOPER INDUSTRIES INC  4233 PRODUCE RD  APEX DRV OF COOPER INDUSTRIES INC  4233 PRODUCE RD  APPLEBEE'S NEICHBORHOOD GRILL & BARR 4717 DME HWY  Northern Ditch & SW Sanitary Service Area (CSO 015  APPLEBEE'S NEICHBORHOOD GRILL & BARR 4717 DME HWY  Northern Ditch & SW Sanitary Service Area (CSO 015  APPLEBEE'S NEICHBORHOOD GRILL & BARR 4717 DME HWY  NORTHERN DITCH & SW SANITARY SERVICE AREA (CSO 015  ARRYS  18.8 LUBE OF LOUISVILLE  18305 FERN VALLEY RD  MORTHERN DITCH & SW Sanitary Service Area (CSO 015  ARRYS  18.8 LUBE OF LOUISVILLE  18305 FERN VALLEY RD  MORTHERN DITCH & SW Sanitary Service Area (CSO 015  ARRYS  18.8 LUBE OF LOUISVILLE  18305 FERN VALLEY RD  MORTHERN DITCH & SW Sanitary Service Area (CSO 015  ARRYS  18.8 LUBE OF LOUISVILLE  18305 FERN VALLEY RD  MORTHERN DITCH & SW Sanitary Service Area (CSO 015  ARRYS AREA (CSO 015)  AREA (CSO 015)			
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APPLEBEE'S NEIGHBORHIOÓD GRILLA BARI A'71 DIME HWY			
ARTS TURE & LUBE OF LOUISVILLE  ARTS TURE & LUBE OF LOUISVILLE  AND SIDE FERN VALLEY RD  Northern Diton & SW Sanitary, Service Area (CSO 015  AUBURNDALE PET CENTER  5400 NEW CUT RD  Northern Diton & SW Sanitary, Service Area (CSO 015  AUTOZONE  3400 DIXIE HVV  Northern Diton & SW Sanitary, Service Area (CSO 015  AVATION TECHNOLOGY INC  1141 STANDIFORD AVE  Northern Diton & SW Sanitary, Service Area (CSO 015  BABYFACE FUN HOUSE CHILDCARE  3817 E INDIAN TR.  Northern Diton & SW Sanitary, Service Area (CSO 015  BABYFACE FUN HOUSE CHILDCARE  3817 E INDIAN TR.  Northern Diton & SW Sanitary, Service Area (CSO 015  BARNES AUTO SERVICE  3730 BISHOP LIN  Northern Diton & SW Sanitary, Service Area (CSO 015  BEHAR CATERINO  4209 PRODUCE RD  Northern Diton & SW Sanitary, Service Area (CSO 015  BEHAR CATERINO  4209 PRODUCE RD  Northern Diton & SW Sanitary, Service Area (CSO 015  BEHAR CATERINO  4209 PRODUCE RD  Northern Diton & SW Sanitary, Service Area (CSO 015  BENEKE WIRE CO  5540 NATIONAL TYKE  Northern Diton & SW Sanitary, Service Area (CSO 015  BIGFOOT FOOD STORES  3001 FERN VALLEY RD  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  BUGGER KING  3900 DIVER HVY  Northern Diton & SW Sanitary, Service Area (CSO 015  CAPTAIN DIS SEAPOOD RESTAURANT  3911 NEW CUT KIN  Northern Diton & SW Sanitary, Service Area (CSO 015  CAPTAIN DIS SEAPOOD RESTAURANT  3911 NEW CUT KIN  Northern Diton & SW Sanitary, Service Area (CSO 015  CAPTAIN DIS SEAPOOD RESTAURANT  391	APPLEDED NEIGHBORNOOD OPEN A BAS		
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MCDONALD'S RESTAURANTS         462           MCDONALD'S RESTAURANTS         560           MCDONALD'S RESTAURANTS         742           MEDLEY'S AUTO CARE         395           METRO AUTO REPAIR SHOP         321	22 DIXIE HWY 00 PRESTON HWY	Tributary to CSO#  Northern Ditch & SW Sanitary Service Area (CSO 015  Northern Ditch & SW Sanitary Service Area (CSO 015
MCDONALD'S RESTAURANTS         462           MCDONALD'S RESTAURANTS         560           MCDONALD'S RESTAURANTS         742           MEDLEY'S AUTO CARE         395           METRO AUTO REPAIR SHOP         321	22 DIXIE HWY 00 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
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MCDONALD'S RESTAURANTS         742           MEDLEY'S AUTO CARE         395           METRO AUTO REPAIR SHOP         321		
MEDLEY'S AUTO CARE 395 METRO AUTO REPAIR SHOP 321	26 3RD STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
METRO AUTO REPAIR SHOP 321	55 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
	5 FERN VALLEY RD	Northern Ditch & SW Sanitary Service Area (CSO 015
INCTRO DENTAL LAB		Northern Ditch & SW Sanitary Service Area (CSO 015
	ULRICH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
	8 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
MICROBAC LABORATORIES INC 332	3 GILMORE INDUSTRIAL BLVD	Northern Ditch & SW Sanitary Service Area (CSO 015
MIDAS AUTO SYSTEMS EXPERTS 451		Northern Ditch & SW Sanitary Service Area (CSO 015
	1 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
MIKE PROTT TRANSMISSION CENTER 140	0 HUGH AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
	2 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
	5 POPLAR LEVEL RD 7 NATIONAL TPKE	Northern Ditch & SW Sanitary Service Area (CSO 015
	18 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
	6 CARL CT	Northern Ditch & SW Sanitary Service Area (CSO 015 Northern Ditch & SW Sanitary Service Area (CSO 015
	5 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
	9 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
NATURAL CURL BEAUTY SHOP 744		Northern Ditch & SW Sanitary Service Area (CSO 015
NEWBURG HAIR STYLING CENTER 1160		Northern Ditch & SW Sanitary Service Area (CSO 015
NEWBURG HEALTH CLINIC 4810	0 EXETER AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
	3 7TH STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
NU YALE DRY CLEANERS 573	7 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
	7 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
	4 DIXIE HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015
OLD LOUISVILLE STYLE CHILI PARLOR & FISI 4544		Northern Ditch & SW Sanitary Service Area (CSO 015
	0 SANITA CT	Northern Ditch & SW Sanitary Service Area (CSO 015
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		Northern Ditch & SW Sanitary Service Area (CSO 015
PEPPER SHAKER CHILI & BAR B Q 4912		Northern Ditch & SW Sanitary Service Area (CSO 015
PEPPER SHAKERS FOOD 4918	8 POPLAR LEVEL RD	Northern Ditch & SW Sanitary Service Area (CSO 015
	9 HILLVIEW AVE	Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015
		Northern Ditch & SW Sanitary Service Area (CSO 015
PIZZA MAGIA 6921		Northern Ditch & SW Sanitary Service Area (CSO 015
	3 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
	0 POPLAR LEVEL RD 12 DIXIE HWY 1	Northern Ditch & SW Sanitary Service Area (CSO 015
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RATTERMAN FAMILY FUNERAL HOMES 7330		Northern Ditch & SW Sanitary Service Area (CSO 015
	SOUTHSIDE DR	Northern Ditch & SW Sanitary Service Area (CSO 015
	I PRODUCE RD	Northern Ditch & SW Sanitary Service Area (CSO 015
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SUBWAY SANDWICHES & SALADS 5512		Forthern Ditch & SW Sanitary Service Area (CSO 015
		forthern Ditch & SW Sanitary Service Area (CSO 015
		lorthern Ditch & SW Sanitary Service Area (CSO 015
	SOUTHSIDE DR N	lorthern Ditch & SW Sanitary Service Area (CSO 015
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	POPLAR LEVEL RD N	forthern Ditch & SW Sanitary Service Area (CSO 015
TRIONINION OIL CORP 21 2700	FERN VALLEY RD N	Iorthern Ditch & SW Sanitary Service Area (CSO 015

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
UNIV OF LOUISVILLE	1519 CRUMS LN	Northern Ditch & SW Sanitary Service Area (CSO 015
UNIV OF LOUISVILLE	3644 ELDERWOOD WAY	Northern Ditch & SW Sanitary Service Area (CSO 015
UPS/UNITED PARC	911 GRADE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
UPS/UNITED PARCEL SERVICE CO AIRLINE	911 GRADE LN	Northern Ditch & SW Sanitary Service Area (CSO 015
VALVOLINE INSTANT OIL CHANGE	7401 3RD STREET RD	Northern Ditch & SW Sanitary Service Area (CSO 015
WENDYS OLD FASHIONED HAMBURGERS	5101 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
WENDY'S OLD FASHIONED HAMBURGERS	5101 PRESTON HWY	Northern Ditch & SW Sanitary Service Area (CSO 015
C & T TRANSMISSION CENTER PLUS AUTO		Middle Fork Downstream of Breckenridge (CSO 020)
C & T TRANSMISSION CENTER PLUS AUTO	S 3950 WESTPORT RD	Middle Fork Downstream of Breckenridge (CSO 020)
CARBY CAR WASH	2917 SENECA PARK RD	Middle Fork Downstream of Breckenridge (CSO 020)
CHENOWETH LANE PET CLINIC	156 CHENOWETH LN	Middle Fork Downstream of Breckenridge (CSO 020)
CHEVRON TOM ENGLE	4217 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
CHOPPING BLOCK DAY SPA AND SALON TH		Middle Fork Downstream of Breckenridge (CSO 020)
CORNERSTONE CHILD DEVELOPMENT CEN		Middle Fork Downstream of Breckenridge (CSO 020)
COTTAGE SALON	155 THIERMAN LN	Middle Fork Downstream of Breckenridge (CSO 020)
DUNN BRIGHT SALON & DAY SPA	3634 BROWNSBORO RD	Middle Fork Downstream of Breckenridge (CSO 020)
FEDEX KINKO'S	106 SEARS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
GE APPLIANCE	2645 TAYLORSVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
HOFMANN, JAMES L DR/DNTST	4122 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
HOWARD, GREGORY S DR/DNTST	291 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
JIFFY LUBE	4180 WESTPORT RD	Middle Fork Downstream of Breckenridge (CSO 020)
JIM PORTERS GOOD TIME EMPORIUM	2345 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
KAHUNA CLEANERS	119 SAINT MATTHEWS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
KEN TOWERY'S AU	218 MARSHALL DR	Middle Fork Downstream of Breckenridge (CSO 020)
KINGSLEY'S MEAT	2110 PAYNE ST	Middle Fork Downstream of Breckenridge (CSO 020)
LAB CORP	121 MCARTHUR DR	Middle Fork Downstream of Breckenridge (CSO 020)
PHOTOGRAPHY LLC DBA YONO PHOTOGRA		Middle Fork Downstream of Breckenridge (CSO 020)
SAINT MATTHEWS ANIMAL CLINIC	111 FAIRFAX AVE	Middle Fork Downstream of Breckenridge (CSO 020)
SALON 152	152 CHENOWETH LN	Middle Fork Downstream of Breckenridge (CSO 020)
SALON 602	4121 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
SEDATS HAIR FASHION & NAILS INC	130 SEARS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
SERVICE PLUS CHEVRON #5	4217 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
SPRING ST BAR & GRILL	300 S SPRING ST	Middle Fork Downstream of Breckenridge (CSO 020)
TEXAS ROADHOUSE	6460 DUTCHMANS PKWY	Middle Fork Downstream of Breckenridge (CSO 020)
WISDOM DENTAL CERAMICS	4122 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
A & K DETAILING	4121 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
A CHOICE DENTAL CARE PLLC DMD	111 FAIRFAX AVE	Middle Fork Downstream of Breckenridge (CSO 020)
ACURA AT OXMOOR BODY SHOP	4311 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
AFTER SCHOOL CARE	510 BRECKENRIDGE LN	Middle Fork Downstream of Breckenridge (CSO 020)
ALL FOR YOU HAIR & NAIL SALON HAIR SAL		Middle Fork Downstream of Breckenridge (CSO 020)
ARBYS	4170 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
ASIAN NAILS & TAN	4155 SHELBYVILLE RD 2269 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)  Middle Fork Downstream of Breckenridge (CSO 020)
AUGUST MOON CHINESE RESTAURANT		Middle Fork Downstream of Breckenridge (CSO 020)
AZALEA RESTAURANT	3612 BROWNSBORO RD	
BAPTIST HOSPITA	2120 PAYNE ST	Middle Fork Downstream of Breckenridge (CSO 020) Middle Fork Downstream of Breckenridge (CSO 020)
BEAUTY MARKS PERMANENT MAKEUP	4113 OECHSLI AVE	Middle Fork Downstream of Breckenridge (CSO 020)
BEEF O BRADY'S	106 SEARS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
BIGFOOT FOOD STORES	4300 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
BLINCOE GLENN R DR DNTST	4122 SHELBYVILLE RD	
BLOOD SERVICES RIVER VALLEY REGION F		Middle Fork Downstream of Breckenridge (CSO 020) Middle Fork Downstream of Breckenridge (CSO 020)
BURGER KING	4030 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
CAFE FRAICHE	3642 BROWNSBORO RD	Middle Fork Downstream of Breckenridge (CSO 020)
CASA CRANDE	510 BRECKENRIDGE LN	Middle Fork Downstream of Breckenridge (CSO 020)
CASA GRANDE	161 THIERMAN LN 311 BROWNS LN	Middle Fork Downstream of Breckenridge (CSO 020)
HARVEY BROWNE PRESCHOOL	2345 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
JIM PORTER'S GOOD TIME EMPORIUM	4174 WESTPORT RD	Middle Fork Downstream of Breckenridge (CSO 020)
KROGER CATERING & BANQUET HALL IN KROGER CATERING & BANQUET HALL IN SA		Middle Fork Downstream of Breckenridge (CSO 020)
	161 SAINT MATTHEWS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
LAB CORP LAB CORP	3700 SAINT GERMAINE CT	Middle Fork Downstream of Breckerridge (CSO 020)
	3914 STAEBLER AVE	Middle Fork Downstream of Breckenridge (CSO 020)
LAB CORP LONG JOHN SILVER'S SEAFOOD SHOPPE		Middle Fork Downstream of Breckeringe (CSO 020)
MARTINIZING ONE HOUR CLEANERS	290 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
MCDONALDS RESTAURANTS	998 BRECKENRIDGE LN	Middle Fork Downstream of Breckenridge (CSO 020)
MEDICAL SPECALI	3801 PLYMOUTH RD	Middle Fork Downstream of Breckenridge (CSO 020)
MEENA SALON FOR HAIR & NAILS	112 BROWNS LN	Middle Fork Downstream of Breckenridge (CSO 020)
MEYERS SAM CLEANERS AND SHIRT LAUNI		Middle Fork Downstream of Breckenridge (CSO 020)
MEYERS SAM CLEANERS AND SHIRT LAUNI	3626 BROWNSBORO RD	Middle Fork Downstream of Breckenridge (CSO 020)
	116 CHENOWETH LN	Middle Fork Downstream of Breckenridge (CSO 020)
MICHEL TIRES PL	116 CHENOWETH LN	Middle Fork Downstream of Breckenridge (CSO 020)
MICHEL TIRES PLUS MIDAS AUTO SYSTEMS EXPERTS		Middle Fork Downstream of Breckenridge (CSO 020)
	4024 SHELBYVILLE RD	Middle Fork Downstream of Breckeninge (CSO 020)
		nymorae poix cownshexiii di breckeriilidde (CSO VZV)
O'CHARLEY'S	962 BRECKENRIDGE LN	
O'CHARLEY'S OFF THE GRILL	121 SAINT MATTHEWS AVE	Middle Fork Downstream of Breckenridge (CSO 020)
O'CHARLEY'S OFF THE GRILL ONE HOUR MARTINIZING	121 SAINT MATTHEWS AVE 290 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020) Middle Fork Downstream of Breckenridge (CSO 020)
O'CHARLEY'S OFF THE GRILL	121 SAINT MATTHEWS AVE	Middle Fork Downstream of Breckenridge (CSO 020)

	NVENTORY OF NDD IN MFWTP SE	
Users Name (Dialogic Coverage)	Address	Tributary to CSO#
PANERA BREAD COMPANY 826	6221 DUTCHMANS LN	Middle Fork Downstream of Breckenridge (CSO 020)
PAPA MURPHY'S TAKE & BAKE PIZZA	291 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
PIZZA HUT PIZZA MAGIA	4211 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
RICK'S HAIR	4005 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
RIVIERA BEAUTY SALON	3642 BROWNSBORO RD	Middle Fork Downstream of Breckenridge (CSO 020)
SABO A CHARLES DMD & ASSOCIATES	114 S SHERRIN AVE	Middle Fork Downstream of Breckenridge (CSO 020)
SABO, A CHARLES DMD/DNTST	4122 SHELBYVILLE RD 4122 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020)
SAINT MATTHEWS DENTAL CARE GROUP	219 BRECKENRIDGE LN	Middle Fork Downstream of Breckenridge (CSO 020)
SAINT MATTHEWS IMPORT SERVICE INC	280 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
SAM MEYERS CLEANERS AND SHIRT LAUNI	DI 3626 BROWNSBORO RD	Middle Fork Downstream of Breckenridge (CSO 020)
SPEEDY MART	2338 LEXINGTON RD	Middle Fork Downstream of Breckenridge (CSO 020)
SUBWAY SANDWICHES	291 N HUBBARDS LN	Middle Fork Downstream of Breckenridge (CSO 020)
VALVOLINE INSTANT OIL CHANGE	4213 SHELBYVILLE RD	Middle Fork Downstream of Breckenridge (CSO 020) Middle Fork Downstream of Breckenridge (CSO 020)
A & S DRAIN CLEANING AND REPAIR	4402 BELRAD DR	Southeast Diversion (CSO 015 or South Fork CSOs)
AIR PRODU & CHEM INC	3313 DOGWOOD DR	Southeast Diversion (CSO 015 or South Fork CSOs)
ALLEGRA PRINT & IMAGING CENTER	8912 STONE GREEN WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
AMERICAN EXPRES	2213 GERALD CT	Southeast Diversion (CSO 015 or South Fork CSOs)
BASHFORD EAST HEALTH CARE	3535 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BEVERLY HEALTHCARE	3116 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BEVERLY HEALTHCARE HILLCREEK	3116 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BRECKENRIDGE ANIMAL HOSPITAL	3451 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BRICKYARD SPORTS BAR AND GRILL	4300 FEGENBUSH LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BRIGHT START CHILD CARE & LEARNING CE	5925 SIX MILE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
BRODERICK DAVE PHOTOGRAPHERS	3103 SUDBURY CT	Southeast Diversion (CSO 015 or South Fork CSOs)
BROWN, AMY DMD	8921 STONE GREEN WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
BUCHEL CHEVRON	3700 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
BUECHEL DAY CARE	2119 OLD SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
CAFE AT DERBY CITY ANTIQUE MALL	3819 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
CAPTAIN DS SEAFOOD RESTAURANT	2960 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
CARE A LOT CHILD CARE	4701 FEGENBUSH LN	Southeast Diversion (CSO 015 or South Fork CSOs)
CHESAPEAKES RESTAURANT AT THE MARR		Southeast Diversion (CSO 015 or South Fork CSOs)
CICIS PIZZA	3093 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
CINDY'S SALON OF THE TRINITY	2206 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
CORNER DELI FOOD REATIVE RESTAURANTS INC	3912 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
AHLEM ANIMAL HOSPITAL	3703 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
PAIRY FARMERS OF AMERICA	3035 HUNSINGER LN	Southeast Diversion (CSO 015 or South Fork CSOs)
AVINIA'S HAIR SALON	3941 BUECHEL BANK RD 2202 BUECHEL AVE	Southeast Diversion (CSO 015 or South Fork CSOs)
	2911 S HURSTBOURNE PKWY	Southeast Diversion (CSO 015 or South Fork CSOs)
ERBY CHEMICAL	2147 BUECHEL BANK RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ERBY CHEMICAL INC	2147 BUECHEL BANK RD	Southeast Diversion (CSO 015 or South Fork CSOs)
INO # 3 FOODMART	3325 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
	2918 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
UNKIN DONUTS	3726 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
MBRY & OCONNOR DMD	3044 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
AZOLI'S	3083 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
IREHOUSE BAR B Q	3065 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
OUR SEASONS BEAUTY SALON	3929 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
	9010 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
	4225 SAINT THOMAS AVE	Southeast Diversion (CSO 015 or South Fork CSOs)
	121 ALPHA AVE	Southeast Diversion (CSQ 015 or South Fork CSQs)
	3012 PAMELA WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
	4407 CORAM WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
REAT ESCAPE	4128 HANDLEY AVE	Southeast Diversion (CSO 015 or South Fork CSOs)
ARPER'S DENNIS CHEVRON SERVICE CEN		Southeast Diversion (CSO 015 or South Fork CSOs)
ARPER'S HAROLD CHEVRON SERVICE CEN ARPERS SERVICE CENTER		Southeast Diversion (CSO 015 or South Fork CSOs)
		Southeast Diversion (CSO 015 or South Fork CSOs)
U/	2921 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
	3046 HUNSINGER LN	Southeast Diversion (CSO 015 or South Fork CSOs)
	3701 TAYLORSVILLE RD 3044 HUNSINGER LN	Southeast Diversion (CSO 015 or South Fork CSOs)
		Southeast Diversion (CSO 015 or South Fork CSOs)
URSTBOURNE CARE CENTRE AT STONY B		Southeast Diversion (CSO 015 or South Fork CSOs)
		Southeast Diversion (CSO 015 or South Fork CSOs)
DUSTRIAL BELTING & TRANSMISSION INC		Southeast Diversion (CSO 015 or South Fork CSOs)
		Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
0.74		Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
LINE CO DECEMBRANT OF CHARGE		Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
/ TINE OR COLAUKANT & LUINIA⊨		Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DHN E'S RESTAURANT & LOUNGE :		
PHNSONS ANIMAL CLINIC		
DHNSONS ANIMAL CLINIC SYCE'S BEAUTY SALON S	3909 BUECHEL BANK RD	Southeast Diversion (CSO 015 or South Fork CSOs)
DHNSONS ANIMAL CLINIC DYCE'S BEAUTY SALON DYCE'S HAIR DESIGN	3909 BUECHEL BANK RD 3834 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DHNSONS ANIMAL CLINIC YCE'S BEAUTY SALON SYCE'S HAIR DESIGN MBO BUFFET TN TOWERY'S AU	3909 BUECHEL BANK RD 3834 TAYLORSVILLE RD 2731 S HURSTBOURNE PKWY	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DHNSONS ANIMAL CLINIC DYCE'S BEAUTY SALON DYCE'S HAIR DESIGN MBO BUFFET N TOWERY'S AU	3909 BUECHEL BANK RD 3834 TAYLORSVILLE RD 2731 S HURSTBOURNE PKWY 4090 CYPRESS COVE DR	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)

ONDIKE MANOR HEALTH CARE CENTER OVING TRAIN RESTURANT & LOUNGE ASONIC HOME VI ASONIC HOMES O DEVINE BASHFORD MANOR SEAFOOD RECADILLY CAFETERIA ED SUN CHINESE RESTAURANT EHLOTZSKY'S DE HALIMAR INDIAN RESTAURANT HIELD ENVIRONM HOGUN JAPANESE STEAK HOUSE HONEYS RESTAURANT HOKEY BONES BARBEQUE & GRILL HOUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE HONY BROOK DENTAL CARE HONY BROOK FAMILY DENTAL REGET PHOTO LAB T 1479 HE HAR DESIGN SCHOOL DEWERYS KEN AUTO CARE SUPER CENTER LUMBER LUMBER LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS HONG SENIOR CARE ECURATE COATING & CHEMICAL COMPAN EVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	2131 S HURSTBOURNE PKWY 3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IVING TRAIN RESTURANT & LOUNGE ASONIC HOME VI ASONIC HOMES O DBY DICK BASHFORD MANOR SEAFOOD F CCADILLY CAFETERIA ED SUN CHINESE RESTAURANT CHLOTZSKY'S DE HALIMAR INDIAN RESTAURANT HIELD ENVIRONM HOGUN JAPANESE STEAK HOUSE HONEYS RESTAURANT MOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK DENTAL CARE ONY BROOK DENTAL CARE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTEF LLVOLINE INSTANT OIL CHANGE LUMBER LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED MEDICAL INSTITUTE	3708 TAYLORSVILLE RD 3816 CHATHAM RD R 3613 BARDSTOWN RD 2131 S HURSTBOURNE PKWY 3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE PKWY 2525 HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD 3621 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ASONIC HOME VI ASONIC HOMES O DBY DICK BASHFORD MANOR SEAFOOD F CCADILLY CAFETERIA CD SUN CHINESE RESTAURANT CHLOTZSKY'S DE HALIMAR INDIAN RESTAURANT HIELD ENVIRONM HOGUN JAPANESE STEAK HOUSE HONEYS RESTAURANT HOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 HE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LUVOLINE INSTANT OIL CHANGE LUMBER LUMBER CO LUMBER CONENTAL CARE COURAND LE COMPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE COURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	3816 CHATHAM RD R 3613 BARDSTOWN RD 2131 S HURSTBOURNE PKWY 3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE PKWY 2525 HURSTBOURNE PKWY 2526 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD R 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DBY DICK BASHFORD MANOR SEAFOOD FOCADILLY CAFETERIA  ED SUN CHINESE RESTAURANT CHIOTZSKY'S DE HALIMAR INDIAN RESTAURANT HIELD ENVIRONM HOGUN JAPANESE STEAK HOUSE HONEYS RESTAURANT HOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE TEAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 HE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LUV LUMBER LUMBER LUMBER CO LUMBER CONPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS  VANCED MEDICAL INSTITUTE	3613 BARDSTOWN RD 2131 S HURSTBOURNE PKWY 3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3421 BARDSTOWN RD 3504 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
CCADILLY CAFETERIA ED SUN CHINESE RESTAURANT EHLOTZSKY'S DE IALIMAR INDIAN RESTAURANT IJELD ENVIRONM IOGUN JAPANESE STEAK HOUSE IONEYS RESTAURANT IJOKEY BONES BARBEQUE & GRILL JUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER ILL KENTUCKIANA INC LUMBER LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IJDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	2131 S HURSTBOURNE PKWY 3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ED SUN CHINESE RESTAURANT CHLOTZSKY'S DE IALIMAR INDIAN RESTAURANT IIELD ENVIRONM IOGUN JAPANESE STEAK HOUSE IONEYS RESTAURANT MOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE CONY BROOK DENTAL CARE CONY BROOK DENTAL CARE CONY BROOK SAMILY DENTAL IRGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER ILL KENTUCKIANA INC LUMBER LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	3437 BRECKENRIDGE LN 4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
CHLOTZSKY'S DE HALIMAR INDIAN RESTAURANT HELD ENVIRONM HOGUN JAPANESE STEAK HOUSE HONEYS RESTAURANT HOKEY BONES BARBEQUE & GRILL HOUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE HONY BROOK DENTAL CARE HONY BROOK FAMILY DENTAL HE HAR DESIGN SCHOOL HUNGERYS KEN AUTO CARE SUPER CENTER HUVOLINE INSTANT OIL CHANGE LUMBER LUMBER LUMBER CO LUMBER CONPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN HOVANCED IDEA MECHANICS HOVANCED MEDICAL INSTITUTE	4001 WOODGATE LN 1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IALIMAR INDIAN RESTAURANT IJELD ENVIRONM IOGUN JAPANESE STEAK HOUSE IONEYS RESTAURANT IOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE IONY BROOK DENTAL CARE IONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL IWERYS KEN AUTO CARE SUPER CENTER ILVOLINE INSTANT OIL CHANGE ILLE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE ICURATE COATING & CHEMICAL COMPAN IOVANCED IDEA MECHANICS IVANCED MEDICAL INSTITUTE	1820 S HURSTBOURNE PKWY 8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3621 BARDSTOWN RD 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IIELD ENVIRONM IOGUN JAPANESE STEAK HOUSE IONEYS RESTAURANT IOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LLVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	8013 CLOUDCROFT LN 9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IOGUN JAPANESE STEAK HOUSE IONEYS RESTAURANT IOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER ILVOLINE INSTANT OIL CHANGE ILE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	9024 TAYLORSVILLE RD 1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IONEYS RESTAURANT MOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 HE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LLVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	1890 S HURSTBOURNE PKWY 2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
MOKEY BONES BARBEQUE & GRILL DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	2525 HURSTBOURNE GEM LN 3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DUTHSIDE CHRISTIAN CHILD CARE EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER ILVOLINE INSTANT OIL CHANGE ILE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COHPANY, L.P. STEP A HEAD HAIR DESIGNS DIDING SENIOR CARE ICCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	3620 KLONDIKE LN 2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
EAK N SHAKE ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS DIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	2717 S HURSTBOURNE PKWY 9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ONY BROOK DENTAL CARE ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL WERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS BIDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN OVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	9200 TAYLORSVILLE RD 9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD R 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ONY BROOK FAMILY DENTAL RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL IWERYS KEN AUTO CARE SUPER CENTER ILVOLINE INSTANT OIL CHANGE ILE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE ICURATE COATING & CHEMICAL COMPAN OVANCED IDEA MECHANICS IVANCED MEDICAL INSTITUTE	9000 TAYLORSVILLE RD 3600 MALL RD 4160 BARDSTOWN RD 3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
RGET PHOTO LAB T 1479 IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LUKE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	3600 MALL RD 4160 BARDSTOWN RD R3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
IE HAR DESIGN SCHOOL DWERYS KEN AUTO CARE SUPER CENTER LUVOLINE INSTANT OIL CHANGE LLE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS HIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	4160 BARDSTOWN RD R 3421 BARDSTOWN RD R 3604 BUECHEL BYP R 4092 MCCOLLUM CT R 3214 ORCHARD MANOR CIR R 4100 PROGRESS BLVD R 305 NEWPORT RD R 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
DWERYS KEN AUTO CARE SUPER CENTER LIVOLINE INSTANT OIL CHANGE LIE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS S	3421 BARDSTOWN RD 3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
LIVOLINE INSTANT OIL CHANGE ILE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS STEP A HEA	3604 BUECHEL BYP 4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
LE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS BIDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	4092 MCCOLLUM CT 3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
LE KENTUCKIANA INC LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS BIDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
LUMBER LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS SIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN OVANCED IDEA MECHANICS OVANCED MEDICAL INSTITUTE	3214 ORCHARD MANOR CIR 4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
LUMBER CO LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS LIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN OVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	4100 PROGRESS BLVD 4305 NEWPORT RD 3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
LUMBER COMPANY, L.P. STEP A HEAD HAIR DESIGNS IIDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN OVANCED IDEA MECHANICS VANCED MEDICAL INSTITUTE	3415 BARDSTOWN RD	Couthaget Diversion (CCC 015 or Couth Fast, CCC-)
STEP A HEAD HAIR DESIGNS DIDING SENIOR CARE CCURATE COATING & CHEMICAL COMPAN DVANCED IDEA MECHANICS DVANCED MEDICAL INSTITUTE	3415 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
DIDING SENIOR CARE CURATE COATING & CHEMICAL COMPAN EVANCED IDEA MECHANICS EVANCED MEDICAL INSTITUTE	I	Southeast Diversion (CSO 015 or South Fork CSOs)
CURATE COATING & CHEMICAL COMPAN EVANCED IDEA MECHANICS EVANCED MEDICAL INSTITUTE	3240 OFFICE POINTE PL	Southeast Diversion (CSO 015 or South Fork CSOs)
OVANCED IDEA MECHANICS OVANCED MEDICAL INSTITUTE		Southeast Diversion (CSO 015 or South Fork CSOs)
VANCED MEDICAL INSTITUTE	3113 COMMANDER DR	Southeast Diversion (CSO 015 or South Fork CSOs)
	2303 HURSTBOURNE VILLAGE DR	Southeast Diversion (CSO 015 or South Fork CSOs)
VANTAGE PLASTICS & ENGINEERING INC		Southeast Diversion (CSO 015 or South Fork CSOs)
FORDABLE SENIOR CARE	4229 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
TERICAN BRAKE CENTERS INC	3435 BASHFORD AVENUE CT	Southeast Diversion (CSO 015 or South Fork CSOs)
TERICAN FAMILY ORTHODONTICS	4229 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
ERICAN FAMILY PEDIATRIC DENTISTRY	3101 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
INIE'S PIZZA III	4306 FEGENBUSH LN	Southeast Diversion (CSO 015 or South Fork CSOs)
PLEBEE'S NEIGHBORHOOD GRILL & BAR	A	Southeast Diversion (CSO 015 or South Fork CSOs)
RBYS	3615 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
ITOZONE	2231 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
TOZONE	2350 STONY BROOK DR	Southeast Diversion (CSO 015 or South Fork CSOs)
CHMAN CHEVROLET OLDSMOBILE SERVI		Southeast Diversion (CSO 015 or South Fork CSOs)
PTIST HOSPITAL EAST HOME HEALTH AG	3101 RECKINDINGE IN	Southeast Diversion (CSO 015 or South Fork CSOs)
AUTIFUL PEOPLE HAIR DESIGNS	3006 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
L'S BODY SHOP	2104 REYNOLDS LN	Southeast Diversion (CSO 015 or South Fork CSOs)
IMPIES SUBS & CATERING	3360 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
	3020 BOAIRES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
PRDEN, INCCA		Southeast Diversion (CSO 015 or South Fork CSOs)
PRDERS DENTAL LABORATORY	2221 BUECHEL AVE	Couthoost Diversion (CSO 015 or South Fork CSOs)
ECHEL DAY CARE INC	4200 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
IFFALO WILD WINGS GRILL & BAR	9134 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
IRGER KING	9120 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
HAIR DESIGN & SPA	9200 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
FE JOKER INC	3912 BARDSTOWN RD	
PTAIN D'S SEAFOOD RESTAURANT	2960 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
MRY MART SOUTHEAST	3927 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
RY CLEAN AMERICA	3360 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs) Southeast Diversion (CSO 015 or South Fork CSOs)
ANS CHIROPRACTIC PSC	3071 BRECKENRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)  Southeast Diversion (CSO 015 or South Fork CSOs)
IRSTBOURNE DENTAL CARE	8921 STONE GREEN WAY	
JRSTBOURNE FAMILY CARE	2304 HURSTBOURNE VILLAGE DR	Southeast Diversion (CSO 015 or South Fork CSOs)
HUNA CLEANERS	2911 S HURSTBOURNE PKWY	Southeast Diversion (CSO 015 or South Fork CSOs)
OS & FUN INC PRE SCHOOL & CHILD CARE		Southeast Diversion (CSO 015 or South Fork CSOs)
OGER	3039 BRECKINRIDGE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
OGER	3616 BUECHEL BYP	Southeast Diversion (CSO 015 or South Fork CSOs)
OGER	9080 TAYLORSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
OGER CO #304	3204 DEWDROP CT	Southeast Diversion (CSO 015 or South Fork CSOs)
OGER CO #304	3806 STONE RIVER CT	Southeast Diversion (CSO 015 or South Fork CSOs)
OGER CO #304	8716 CHELMER LN	Southeast Diversion (CSO 015 or South Fork CSOs)
FRIED CHICKEN	2308 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
FRIED CHICKEN	403 DONARD PARK AVE	Southeast Diversion (CSO 015 or South Fork CSOs)
FRIED CHICKEN	4601 ROXANN BLVD	Southeast Diversion (CSO 015 or South Fork CSOs)
B CORP	3110 CHURCH WAY	Southeast Diversion (CSO 015 or South Fork CSOs)
B CORP	3219 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
B CORP	3706 KLONDIKE LN	Southeast Diversion (CSO 015 or South Fork CSOs)
B CORP	3937 STONYRUN DR	Southeast Diversion (CSO 015 or South Fork CSOs)
	4194 NORBROOK DR	Southeast Diversion (CSO 015 or South Fork CSOs)
B CORP	4014 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)

LONG-FORN STEANHOUSE   2235 FURSTBOURNE GEN IN   MARTINIZHO GH HOUR CLEARERS   2723 SINESTBOURNE GEW   Southeast Diversion (GS) 015 or South Fork CSO)   MARY BEAUTY SALON   4119 BAROSTOWN RD   WIND   Southeast Diversion (GS) 015 or South Fork CSO)   MARY BEAUTY SALON   4119 BAROSTOWN RD   WIND   Southeast Diversion (GS) 015 or South Fork CSO)   MARY BEAUTY SALON   4119 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4306 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4306 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4306 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4306 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S SATON FROOK   5800 CTABL WAY   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4306 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S AND SAND SHITT LAURO'S BEAD   SOUTHEAST DIVERSION (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4308 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCDORALD'S RESTAURANTS   4309 BAROSTOWN RD   Southeast Diversion (GS) 015 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 015 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 015 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 016 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 016 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 016 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 016 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   Southeast Diversion (GS) 016 or South Fork CSO)   MCROBALTRE AUTO INC   2217 LYCRYPOL IN   SOUTHEAST DIVERSION   SOUTHEAST DIVERSION   SOUTHEAST DIVERSION   SOUTHEAST DIVER	Users Name (Dialogic Coverage)	Address	Tributary to CSO#
MART INJURY SALON			
MART BEAUTY SALON	MARTINIZING ONE HOUR CLEANERS		
MOLDING   PRINCE   PRINCE			
MCDOMALD'S RESTAURANTS			Southeast Diversion (CSO 015 or South Fork CSOs)
MODONALOS RESTAURANTS			Southeast Diversion (CSO 015 of South Fork CSOs)
MODDONALD'S-STONY BROOK   \$600 CTROBEL WAY   Southeast Diversion (CSO 01 s or South Fix CSOs)   MEDILEYS AUTO & TRUCK ALIGNMENT SERV) 341 SHEPHERDSVILLE RD   Southeast Diversion (CSO 01 s or South For CSOs)   MEDILEYS AUTO & TRUCK ALIGNMENT SERV) 341 SHEPHERDSVILLE RD   Southeast Diversion (CSO 01 s or South For CSOs)   MEDILEYS AUTO & TRUCK ALIGNMENT SERV) 341 SHEPHERDSVILLE RD   Southeast Diversion (CSO 01 s or South For CSOs)   MEDILEYS AUTO & TRUCK ALIGNMENT SERV) 341 SHEPHERDSVILLE RD   Southeast Diversion (CSO 01 s or South For CSOs)   MEDILEYS AUTO & MEDILEY SERVICE AND ALIGNMENT SERVICE AND ALIGNMEN			Southeast Diversion (CSO 015 or South Fork CSOs)
MEDLEYS AUTO & TRUCK ALIGNMENT SERY 3913 SHEPHERDSVILLE RD  MEYERS SAM CLEANERS AND SHRIT LANDI 3400 BASHFORD AVENUE CT  Southeast Diversion (CSO 315 or South Fork CSOs)  MEYERS SAM CLEANERS AND SHRIT LANDI 3400 BASHFORD AVENUE CT  Southeast Diversion (CSO 315 or South Fork CSOs)  MOMAN LEARLY SKIDDIE CARE  3439 BRECKENNFOGE LN  Southeast Diversion (CSO 315 or South Fork CSOs)  MOMAN LEARLY SKIDDIE CARE  3439 BRECKENNFOGE LN  Southeast Diversion (CSO 315 or South Fork CSOs)  MOMAN LEARLY SKIDDIE CARE  3439 BRECKENNFOGE LN  Southeast Diversion (CSO 315 or South Fork CSOs)  MOMAN LEARLY SKIDDIE CARE  3439 BRECKENNFOGE LN  Southeast Diversion (CSO 315 or South Fork CSOs)  MORGAN TIES A JATO INC  3439 BRECKENNFOGE LN  Southeast Diversion (CSO 315 or South Fork CSOs)  MR (PARTIS  3400 BRANCH LA MAN LA LA LA LO LA LA LA LO LA LA LA LO LA LA LA LO LA LA LA LO LA LA LA LA LO LA LA LA LA LO LA LA LA LA LA LA LA LA LA LA LA LA LA			Southeast Diversion (CSO 015 or South Fork CSOs)
MEDILEYS AUTO & TRUCK ALIGNMENT SERV) 9913 SHEPHERDSVILLE RD		2012 CHERNERNOVILLE DD	Southeast Diversion (CSO 015 or South Fork CSOs)
MEYERS SAM CLEANERS AND SHIRT LAUNG 3409 BASHFORD AVENUE CT	MEDIEVS ALTO & TRUCK ALICAMENT SERV	3013 SHEPHERDSVILLE RD	Southeast Diversion (CSO 015 or South Fork CSOs)
MONES LINES PLUS   MONES LINES (NOTE)	MEVERS SAM OF EANERS AND SHIET FATING	3400 BVC/ICODD VALVATE OX	
MOMMAL EARTS KIDDIE CARE  3498 BRECKENRIDGE LN  Southeast Diversion (CSO 015 or South Fork CSO)  MORGAN TIRE & AUTO INC  2217 LIVERPOOL LN  Southeast Diversion (CSO 015 or South Fork CSO)  MORGAN TIRE & AUTO INC  2217 LIVERPOOL LN  Southeast Diversion (CSO 015 or South Fork CSO)  MINTANSMISSION  3014 HUNSINGER LN  Southeast Diversion (CSO 015 or South Fork CSO)  MINTANSMISSION  MINTANSMISSION  3014 HUNSINGER LN  Southeast Diversion (CSO 015 or South Fork CSO)  MINTANSMISSION  MINTANSMISSION  3014 HUNSINGER LN  Southeast Diversion (CSO 015 or South Fork CSO)  MINTANSMISSION  MINTANSMISSION  3016 PAMELA WAY  Southeast Diversion (CSO 015 or South Fork CSO)  MINTANSMISSION  MINTANSMISSION  SOUTHEAST DIVERSE CLEARARST  SOED BARRETOURNE PRWY  Southeast Diversion (CSO 015 or South Fork CSO)  OFF THE HEEZER HAIR SALON  490 SERRETOURNE PRWY  Southeast Diversion (CSO 015 or South Fork CSO)  OLYMCO MUFFLER & BRAKE CENTERS  2300 HIKES IN  SOUTHEAST DIVERSMISSION  2120 SHIPSTBOURNE PRWY  SOUTHEAST DIVERSMISSION  MINTANSMISSION  2120 SHIPSTBOURNE PRWY  SOUTHEAST DIVERSMISSION  SOUTHEAST DIVERS	MICHEL TIRES DI US		Southeast Diversion (CSO 015 or South Fork CSOs)
MONGOLLAN GRILL			Southeast Diversion (CSO 015 or South Fork CSOs)
MORGAN TIRE & AUTO INC			Southeast Diversion (CSO 015 or South Fork CSOs)
MM GARTTS         Southeast Diversion (CSO 015 or South Fox (CSO))           MR TRANSMISSION         3014 HUNSINGER IN         Southeast Diversion (CSO 015 or South Fox (CSO))           NATIONAL EXPRESS CAR WASH         4401 FEGENBUSH IN         Southeast Diversion (CSO 015 or South Fox (CSO))           NATURAL LIGHT PHOTOGRAPHY         3010 PAMELA WAY         Southeast Diversion (CSO 015 or South Fox (CSO))           NU YALE SANITONE CLEANERS         3000 BARDSTOWN RD         Southeast Diversion (CSO 015 or South Fox (CSO))           OFF THE HEEP FLAIR SALON         4828 SERREE IN         Southeast Diversion (CSO 015 or South Fox (CSO))           OFF THE HEEP FLAIR SALON         4828 SERREE IN         Southeast Diversion (CSO 015 or South Fox (CSO))           ONE HOUSE MARTINIZATION         4828 SERREE IN         Southeast Diversion (CSO 015 or South Fox (CSO))           OWEN FULLHEAR LIO         3037 SEARTS TOWN FROM THE PRWY         Southeast Diversion (CSO 015 or South Fox (CSO))           OWEN FULLHEAR LIO         3037 SEARTS TOWN FROM THE PRWY         Southeast Diversion (CSO 015 or South Fox (CSO))           PERIODONTAL CARE & MIPLAN CERTER 18         305 SEARTS TOWN FROM THE PRWY         Southeast Diversion (CSO 015 or South Fox (CSO)           PIZZA HUT         9160 TAYLORSVILLE RD         SOUTHEAST DIVERSION (CSO 015 or South Fox (CSO)           PIZZA HUT         9160 TAYLORSVILLE RD         SOUTHEAST DIVERSION (CSO 015 or South Fox (CSO) <td></td> <td></td> <td>Southeast Diversion (CSO 015 or South Fork CSOs)</td>			Southeast Diversion (CSO 015 or South Fork CSOs)
MR TRANSMISSION			Southeast Diversion (CSO 015 or South Fork CSOs)
NATIONAL EXPRESS CAR WASH  4401 FEGERBUSH LN  Southeast Diversion (CSO 015 or South Fork CSO)  NU YALE SANITONE CLEANERS  3800 BARDSTOWN RD  OCHARLEYS  1801 S HURSTBOURNE PKWY  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OFF THE HEEZIE HAIR SALON  4828 SEBREE LN  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OLYMCO MUFFLER & BRAKE CENTERS  2000 FHICE SIN  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OLYMCO MUFFLER & BRAKE CENTERS  2000 FHICES IN  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OLYMCO MUFFLER & BRAKE CENTERS  2000 FHICES IN  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OLYMCO MUFFLER & BRAKE CENTERS  2000 FHICES IN  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  OVEN TOWNERAL HO  SOUTHEAST COAST SUBS  2007 BURSTBOURNE PKWY  SOUTHEAST DEVERSION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW STATION (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO 015 or South Fork CSO)  PERIODONTAL CARE & MPLANT CENTER  SHOW SOUTHERS TOWN (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO 015 or South Fork CSO)  SOUTHERS TOWN (CSO			
NATURAL LIGHT PHOTOGRAPHY  NO YALE SANTONE CIZAMERS  300 BARDSTOWN RD  SOUTHEAST DIVERSION (250 075 or South Fork CSO)  OCHARLEYS  1901 S HURSTBOURNE PKWY  SOUTHEAST DIVERSION (250 075 or South Fork CSO)  OCHARLEYS  OCHARLEYS  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OVER PLUMERS DIVERS  2723 S HURSTBOURNE PKWY  SOUTHEAST DEVERSION (250 075 or South Fork CSO)  ONE HOUR MARTINIZING  2723 S HURSTBOURNE PKWY  SOUTHEAST DEVERSION (250 075 or South Fork CSO)  ONE HOUR MARTINIZING  ON			
NU YALE SANITONE CLEARERS  3900 BARDSTÖWN RD  SOUTHABEL PSY  1901 S HURSTBOURNE PKWYY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OFF THE HEEZIE HAIR SALON  4828 SERREE LN  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OLYMCO MUFFLER & BRAKE CENTERS  2300 HIKES LN  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OLYMCO MUFFLER & BRAKE CENTERS  2300 HIKES LN  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OWEN FUNDERS AND SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OWEN FUNDERS AND SOUTHABE DIVERSION (250 015 or South Fork CSOS)  OWEN FUNDERS AND SOUTHABE DIVERSION (250 015 or South Fork CSOS)  PERIODON (AL CARE & MPLANT CENTER)  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  PERIODON (AL CARE & MPLANT CENTER)  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  PORTRATT STUDIO  PORTRATT STUDIO  PORTRATT STUDIO  PORTRATT STUDIO  PORTRATT STUDIO  211 25 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  PORTRATT STUDIO  PORTRATT STUDIO  211 25 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  PORTRATT STUDIO  PORTRATT STUDIO  212 5 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  213 5 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  214 5 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  215 5 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  RATTERMAN & SONS  3800 BARDSTOWN RD  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  REGAL AUTO WASH  210 05 HURSTBOURNE PKWY  SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SALON SERVICE GROUP (250 015 or South Fork CSOS)  SALON SOUTHABE DIVERSION (250 015 or South Fork CSOS)  SAL			Southeast Diversion (CSO 015 or South Fork CSOs)
OCHARLEYS  OF THE HEEZIE HAIR SALON  4828 SEBREE LIN  SOUTHEAST DIVERSION (250 15 or South Fork CSOs)  DLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAN MILLS STUDIO  OLAY MILLS STUDIO  PENN STATION BAST COAST SUBS  OLAY STUDIO  PENN STATION BAST COAST SUBS  OLAY STUDIO  PENN STATION BAST COAST SUBS  OLAY STUDIO  PENN STATION BAST COAST SUBS  OLAY STUDIO  PENN STATION BAST COAST SUBS  OLAY STUDIO  PENN STATION BAST COAST SUBS  OLAY SOUTH SUBS SOUTH SOUTH FORK CSOS)  PERCENTATION BAST COAST SUBS  OLAY SOUTH SUBS SOUTH SOUTH FORK CSOS)  PERCENTATION BAST COAST SUBS  OLAY SOUTH SUBS SOUTH FORK CSOS)  PERCENTATION SUBS SOUTH SUBS SOUTH FORK CSOS)  PERCENTATION SUBS SOUTH FORK CSOS OLAY SOUTH FORK CSOS OLAY SOUTH SUBS SOUTH FORK CSOS OLAY SOUTH FORK CSOS O			Southeast Diversion (CSO 015 or South Fork CSOs)
OFF THE HEZZIE HAIR SALON			Southeast Diversion (CSO 015 or South Fork CSOs)
QLAM MILLS STUDIO			Southeast Diversion (CSO 015 or South Fork CSOs)
OLAM MILLS STUDIO U-YMCO MUFFLER & BRAKE CENTERS 200 HIKES IN Southeast Diversion (CSO 015 or South Fork CSOs) ONE HOUR MARTINIZING 2723 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOs) PENN STATION EAST COAST SUBS 2001 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOs) PENN STATION EAST COAST SUBS 2001 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOs) PENN STATION EAST COAST SUBS 2001 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOs) PEIZA HUT 9160 TAY/CRSVILLE RD Southeast Diversion (CSO 015 or South Fork CSOs) PEIZA HUT 9160 TAY/CRSVILLE RD Southeast Diversion (CSO 015 or South Fork CSOs) PORTRAIT STUDIO 2020 BASHFORD MANOR LN Southeast Diversion (CSO 015 or South Fork CSOs) PORTRAIT STUDIO 2020 BASHFORD MANOR LN Southeast Diversion (CSO 015 or South Fork CSOs) QUIZNOS SUB #3201 3090 BRECKENRIDGE LN Southeast Diversion (CSO 015 or South Fork CSOs) QUIZNOS SUB #3201 3090 BARCEKENRIDGE LN Southeast Diversion (CSO 015 or South Fork CSOs) RATTERMAN & SONS ARTTERMAN & SONS 3800 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) REGAL AUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOs) SALON BRUCKE GROUP 3715 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON BRUCKE GROUP 3715 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON SERVICE GROUP 3715 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON SERVICE GROUP 3716 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON SERVICE GROUP 3716 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON SERVICE GROUP 3716 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SALON SERVICE GROUP 3716 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOs) SAM MEYERS CLEANERS AND SHIRT LAURD 3400 BASHFORD AVENUE CT Southeast Diversion (CSO 015 or South Fork CSOs) SAM MEYERS CLEANERS AND SHIRT LAURD 3400 BASHFORD AVENUE CT SOUTHERS SALON BROWN RD SOUTHEAST DIVERSION RD SOUTHEAST			Southeast Diversion (CSO 015 or South Fork CSOs)
OLYMICO MUFFLER & BRAKE CENTERS   2300 HIKES LN			Southeast Diversion (CSO 015 or South Fork CSOs)
ONE HOUR MARTINIZING  2723 5 HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork (SOs)  PENN STATION EAST COAST SUBS  2001 5 HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork (SOs)  PENN STATION EAST COAST SUBS  2001 5 HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork (SOs)  PIZZA HUT  9160 TAY/ORSYILLE RD  Southeast Diversion (CSO 015 or South Fork (SOs)  PORTRAIT STUDIO  2002 BASHFORD MANOR LN  Southeast Diversion (CSO 015 or South Fork (SOs)  PORTRAIT STUDIO  2002 BASHFORD MANOR LN  Southeast Diversion (CSO 015 or South Fork (SOs)  PORTRAIT STUDIO  2112 5 HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork (SOs)  QUIZNOS SUB #3201  3099 BRECKENRIDGE LN  Southeast Diversion (CSO 015 or South Fork (SOs)  RATTERMAN A SONS  3800 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  RATTERMAN FAMILY FUNERAL HOMES  3800 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  REGAL AUTO WASH S  2190 S HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork (SOs)  SALON BRY/CE GROUP  3715 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SALON SERVICE GROUP  SALON SERVICE GROUP  SOUTHEAST DIVERSION (CSO 015 or South Fork (SOs)  SALON SERVICE GROUP  SOUTHEAST DIVERSION (CSO 015 or South Fork (SOs)  SAM MEYERS CLEANERS AND SHIRT LAND(3400 BASHFORD AVENUE CT  SOUTHEAST Diversion (CSO 015 or South Fork (SOs)  STARBUCKS COFFEE  9030 TAYLORSVILLE RD  SOUTHEAST Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork (SOs)  SUPERAMERICA  4527 BARDSTOWN RD  Southeast Diversion (CSO 0			Southeast Diversion (CSO 015 or South Fork CSOs)
OWEN FUNERAL HO			Southeast Diversion (CSO 015 or South Fork CSOs)
PENN STATION EAST COAST SUBS  2001 S HURSTBOURNE PKWY  PERIODONTAL CARE & IMPLANT CENTER  3409 STONY SPRING CIR  Southeast Diversion (CSO 015 or South Fork CSOs)  PIZZA HUT  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  9160 TAYLORSVILLE RD  900 Southeast Diversion (CSO 015 or South Fork CSOs)  900 TAYLORSVILLE RD  900 BRECKERNIDGE LN  900 BRECKERNIDGE LN  900 BRECKERNIDGE LN  900 BRECKERNIDGE LN  900 BRECKERNIDGE LN  900 BRATTERMAN ROLLE STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRECKERNIDGE LN  900 BRECKERNIDGE LN  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STORT STORT STORT STORT STORT STORT FOR CSOS  900 BRATTERMAN ROLLE STORT STO			Southeast Diversion (CSO 015 or South Fork CSOs)
PERIODONTAL CARE & IMPLANT CENTER  3409 STONY SPRING GIR  9100 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOs) PJS /BTY SALON  4229 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  2118 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  21218 HIKES LN  Southeast Diversion (CSO 015 or South Fork CSOs) PRESTIGE CAR WASH  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  4183 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOs) SA STRANSMISSIONS  4183 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOs) SALON 804  3715 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOs) SALON SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  AUTHOR AND SONS  4183 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOs) SALON SONS  AUTHOR AND SONS	PENN STATION EAST COAST SUBS		
PIZZA HUT			
PURP   SALON	PIZZA HUT		
PORTRAIT STUDIO   2020 BASHFORD MANOR LN   Southeast Diversion (CSO 015 or South Fork CSOs)   PRESTIGE CAR WASH   2216 HIKES LN   Southeast Diversion (CSO 015 or South Fork CSOs)   QUIZNOS SUB #3201   3099 BRECKERRIDGE LN   Southeast Diversion (CSO 015 or South Fork CSOs)   QUIZNOS SUB #3201   3099 BRECKERRIDGE LN   Southeast Diversion (CSO 015 or South Fork CSOs)   RATTERMAN & SONS   3800 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   RATTERMAN A FAMILY FUNERAL HOMES   3800 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   REGAL AUTO WASH   2190 S HURSTBOURNE PKWY   Southeast Diversion (CSO 015 or South Fork CSOs)   REGAL AUTO WASH   2190 S HURSTBOURNE PKWY   Southeast Diversion (CSO 015 or South Fork CSOs)   SALON SOM   3715 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SALON SERVICE GROUP   3380 SHEPHERDSVILLE RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SALON SERVICE GROUP   3380 SHEPHERDSVILLE RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SPEEDY WART   4213 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SPEEDY WART   4213 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   2995 BRECKENRIDGE LN   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOs)   SUPERAMERICA   427 BARDSTOWN RD   SOUTHEAST ROW FORK CSOS   428 BARDSTO	PJ'S /BTY SALON	4229 BARDSTOWN RD	Southeast Diversion (CSO 015 or South Fork CSOs)
PRESTIGE CAR WASH   2216 HIKES LN   Southeast Diversion (CSO 015 or South Fork CSOS)   QUIZNO'S   2112 S HURSTBOURNE PKWY   Southeast Diversion (CSO 015 or South Fork CSOS)   QUIZNO'S   2112 S HURSTBOURNE PKWY   Southeast Diversion (CSO 015 or South Fork CSOS)   RATTERMAN A SONS   3309 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   RATTERMAN FAMILY FUNERAL HOMES   3800 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   RATTERMAN FAMILY FUNERAL HOMES   3800 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   S & STRANSMISSIONS   4183 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   S & STRANSMISSIONS   4183 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SALON BOX   3715 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SALON SERVICE GROUP   3809 SHEPHERDSYLLE RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SALON SERVICE GROUP   3809 SHEPHERDSYLLE RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SPEEDY MART   4213 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SPEEDY MART   4213 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SUPERAMERICA   2955 BRECKENRIDGE LN   Southeast Diversion (CSO 015 or South Fork CSOS)   SUPERAMERICA   4527 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   SUPERAMERICA   4527 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   TACO BELL   3425 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   TACO BELL   3426 BARDSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   UNIV OF LOUISVILLE   3002 LACEVINE RD   Southeast Diversion (CSO 015 or South Fork CSOS)   UNIV OF LOUISVILLE   3202 GLENSTOWN RD   Southeast Diversion (CSO 015 or South Fork CSOS)   UNIV OF LOUISVILLE   3304 LODGE LN   Southeast Diversion (CSO 015 or South Fork CSOS)   UNIV OF LOUISVILLE   3002 LACEVINE RD   Southeast Diversion (CSO 015 or South Fork CSOS)   UNIV OF LOUISVILLE   3004 LACEVINE RD   Southeast Diversion (CS	PORTRAIT STUDIO	2020 BASHFORD MANOR LN	Southeast Diversion (CSO 015 or South Fork CSOs)
QUIZNOS SUB #3201 3099 BRECKENRIDGE LN Southeast Diversion (CSO 015 or South Fork CSOS)  RATTERMAN & SONS 3800 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS)  REGAL AUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOS)  REGAL AUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOS)  REGAL AUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOS)  SALON BERVICE GROUP 3000 SOUTHEAST SOUTH FOR CSOS  SALON SERVICE GROUP 3000 SOUTHEAST SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  SALON SERVICE GROUP 3000 SHEPPICE SOUTH FORK CSOS  STARBUCKS COFFEE 90035 TAXIVORY RD 5000 SOUTH FORK CSOS  SUPERAMERICA 2000 SHEPPICE SOUTH FORK CSOS  SUPERAMERICA 2000 SHEPPICE SOUTH FORK CSOS  SUPERAMERICA 2000 SHEPPICE SOUTH FORK CSOS  SUPERAMERICA 2000 SHEPPICE SOUTH FORK CSOS  SUPERAMERICA 2000 SHEPPICE SOUTH FORK CSOS  SUPERAMERICA 4527 BARDSTOWN RD 5000 SOUTH FORK CSOS  SOUTH FORK CS	PRESTIGE CAR WASH	2216 HIKES LN	Southeast Diversion (CSO 015 or South Fork CSOs)
QUIZNOS SUB #3201 3099 BRECKENRIDGE LN Southeast Diversion (CSO 016 or South Fork CSOS) RATTERMAN & SONS ARTTERMAN & SONS ARTERMAN FAMILY FUNERAL HOMES 3800 BARDSTOWN RD Southeast Diversion (CSO 016 or South Fork CSOS) RATTERMAN FAMILY FUNERAL HOMES 3800 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) RATTERMAN FAMILY FUNERAL HOMES 3800 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) S. & S TRANSMISSIONS 4163 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3715 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3808 SHEPHERDSVILLE RD Southeast Diversion (CSO 015 or South Fork CSOS) SAMMEYERS CLEANERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT Southeast Diversion (CSO 015 or South Fork CSOS) SAMMEYERS CLEANERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT Southeast Diversion (CSO 015 or South Fork CSOS) STARBUCKS COFFEE 9038 TAYLORSVILLE RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 2965 BRECKENRIDGE LN Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3098 TAYLORSVILLE RD Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN Southeast Diversion (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN SOUTHERS DIVERSION (CSO 015 or South Fork CSOS)	QUIZNO'S	2112 S HURSTBOURNE PKWY	Southeast Diversion (CSO 015 or South Fork CSOs)
RATTERMAN & SONS  3809 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOS)  REGAL AUTO WASH  2190 S HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork CSOS)  REGAL AUTO WASH  2190 S HURSTBOURNE PKWY  Southeast Diversion (CSO 015 or South Fork CSOS)  SALON 804  3715 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOS)  SALON 804  3715 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOS)  SALON SERVICE GROUP  3808 SHEPHERDSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  SALON SERVICE GROUP  3808 SHEPHERDSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  SALON SERVICE GROUP  3808 SHEPHERDSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  STARBUCKS COFFEE  9036 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  SUPERAMERICA  2985 BRECKENRIDGE LN  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  3982 BARDSTOWN RD  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  9092 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  9092 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  9092 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  9092 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  TACO BELL  9092 TAYLORSVILLE RD  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3004 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3004 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3004 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3004 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3004 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3006 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3006 LAGENTONE CT  Southeast Diversion (CSO 015 or South Fork CSOS)  UNIV OF LOUISVILLE  3006 LAGENTONE C	QUIZNOS SUB #3201		
RATTERMAN FAMILY FUNERAL HOMES 3800 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) REGALA LUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOS) S & S TRANSMISSIONS 4163 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SALON 804 3715 BARDSTOWN RD Southeast Diversion (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3000 SHEPHERDSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3000 SHEPHERDSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SAM MEYERS CLEARERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SAM MEYERS CLEARERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) STARBUCKS COFFEE 9030 TAYLORSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) STARBUCKS COFFEE 9030 TAYLORSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SUPERAMERICA 4227 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) TACO BELL 9992 TAYLORSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) TACO BELL 9992 TAYLORSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3202 GLENSTONE CT SOUTH FORK CSOS) TAGO BELL SOUTHWEST GRILL 8600 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) UNIV OF LOUISVILLE 3504 LODGE LN SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) VALVOLINE INSTANT OIL CHANGE 8601 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) VALVOLINE INSTANT OIL CHANGE 8601 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) VALVOLINE INSTANT OIL CHANGE 8601 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) VALVOLINE INSTANT OIL CHANGE 8601 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) VALVOLINE INSTANT OIL CHANGE 8601 CITADEL WAY SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) DAIRY QUEEN RESTAURANTS 2208 GOLDSMITH LN GOIGISTIC LARD GOOD COLDSMITH LN GOIGISTIC COURT OF S	RATTERMAN & SONS		
REGAL AUTO WASH 2190 S HURSTBOURNE PKWY Southeast Diversion (CSO 015 or South Fork CSOS) S & S TRANSMISSIONS 4183 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SALON 804 3715 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SALON 826WICE GROUP 3808 SHEPHERDSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3808 SHEPHERDSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SALON SERVICE GROUP 3808 SHEPHERDSVILLE RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SPEEDY MART 4213 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SPEEDY MART 4213 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SPEEDY MART 4213 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SUPERAMERICA 2965 BRECKENRIDGE LN SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) SUPERAMERICA 4527 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) TACO BELL 4528 BARDSTOWN RD SOUTHEAST DIVERSION (CSO 015 or South Fork CSOS) TACO BELL 5992 TAYLORSVILLE RD 5001	RATTERMAN FAMILY FUNERAL HOMES		
S & S TRANSMISSIONS  4163 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SALON 824 VICE GROUP  3008 SHEPHERDSVILLE RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SALON 826 VICE GROUP  3008 SHEPHERDSVILLE RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SAM MEYERS CLEANERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SAM MEYERS CLEANERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SAM MEYERS CLEANERS AND SHIRT LAUND 3400 BASHFORD AVENUE CT  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) STARBUCKS COFFEE  9039 TAYLORSVILLE RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  2065 BRECKENRIDGE LN  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) SUPERAMERICA  4527 BARDSTOWN RD  SOUTHEAST DIVERSION (CSO 015 or South Fork CSOs) UNIV OF LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4504 LOUISVILLE  4505 LAGEVINE RD  4504 LOUISVILLE  4504			
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WENDYS OLD FASHIONED HAMBURGERS  3606 BUECHEL BYP  Southeast Diversion (CSO 015 or South Fork CSOs) BEARNO'S PIZZA  2900 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) COLONEL QUICK DRY CLEANING & ALTERAT 3333 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DAIRY QUEEN RESTAURANT'S  2208 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2211 ABIGAIL DR  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2211 ABIGAIL DR  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2211 ABIGAIL DR  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2211 ABIGAIL DR  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2212 BARDSTOWN RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2212 BARDSTOWN RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  COMMITTED  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  GOLDSMITH LAND TRUNK (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  GOLDSMITH LAND TRUNK (CSO 015 or South		8601 CITADEL MAY	Southeast Diversion (CSO 015 or South Fork CSOs)
BEARNO'S PIZZA  2900 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  COLONEL QUICK DRY CLEANING & ALTERAT 3333 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DAIRY QUEEN RESTAURANTS  2208 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GENERAL ELEC APPLI  201 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ERELAIS RESTAURANT  2917 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ERELAIS RESTAURANT  2917 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EREXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GE CAPITAL FLEET SERVICES  6040 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  34 LUMBER  2912 MONTROSE AVE  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  A NEW TREATMENT CENTER  4020 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GOL	WENDYS OLD FASHIONED HAMBURGERS	3606 BUECHEL BYD	Southeast Diversion (CSO 015 or South Fork CSOs)
COLONEL QUICK DRY CLEANING & ALTERAT 3333 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) DAIRY QUEEN RESTAURANTS  2208 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) GE COMPANY  2911 ABIGAIL DR  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS) GENERAL ELEC APPLI  201 TRAFALGAR SQ  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS) HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS) HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS) HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS) HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  E RELAIS RESTAURANT  2817 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  E RELAIS RESTAURANT  2817 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  ENECA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  STEAK N SHAKE  3232 BARDSTOWN RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  TO STEAK N SHAKE  3232 BARDSTOWN RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOS)  AND TRUNK TRUN			
DAIRY QUEEN RESTAURANTS  DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) DOOLEYS BAGELS & DELI  980 BRECKENRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GENERAL ELEC APPLI  1011 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GENERAL ELEC APPLI  1021 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GENERAL ELEC APPLI  10331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ERELAIS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ERELAIS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  BENERAL RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  BENERAL RESTAURANT CENTER  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PK		2322 PARDETOWN DD	
DEWITT PHOTOGRAPHY  2210 GOLDSMITH LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GENERAL ELEC APPLI  201 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EREALIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENECA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO			
DOOLEYS BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) GENERAL ELEC APPLI  201 TRAFALGAR SQ  Glodsmith Lane Trunk (CSO 015 or South Fork CSOS) GIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOS) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  GOIDAY INN SOUTHEAST BANGUET BANGE TRUNK (CSO 015 or South Fork CSOS)  BAPTIST BANGUET BANGE			
DOOLEY'S BAGELS & DELI  980 BRECKENRIDGE LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE APPLIANCES  252 BRECKINRIDGE SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GENERAL ELEC APPLI  201 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  GOIDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  ERELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENECA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV  3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  BA LUMBER  A NEW TREATMENT CENTER  6420 DUTCHMANS LN  GOldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS LN  GOldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)  GORDSMITH LAND TRUNK (CSO 015 or South Fork CSOs)			
GE APPLIANCES  252 BRECKINRIDGE SQ Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GE COMPANY  2911 ABIGAIL DR Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) GENERAL ELEC APPLI  201 TRAFALGAR SQ Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HIGHLAND FUNERAL HOME 3331 TAYLORSVILLE RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HIGHLAND FUNERAL HOME 3331 TAYLORSVILLE RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD GOLDAY INN SOUTHEAST BANDUET & CATE 3255 BARDSTOWN RD GOLDAY INN SOUTHEAST BANDUET & CATE 3255 BARDSTOWN RD GOLDAY INN SOUTHEAST BANDUET & CATE 3255 BARDSTOWN RD GOLDAY INN SOUTHEAST BANDUET & CATE 3255 BARDSTOWN RD GOLDAY INN SOUTHEAST BARDTOWN RD GOLDAY INN SOUTHEAST BANDUET BANDUET BANDUET BANDUET BARDSTOWN RD GOLDAY INN SOUTHEAST BANDUET BANDUET BANDUET BANDUET	4.4.		
GE COMPANY  2911 ABIGAIL DR  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GENERAL ELEC APPLI  201 TRAFALGAR SQ  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  LE RELIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENERGY ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  EYAAS ROADHOUSE  6040 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  BE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  BE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  BAYLORSVILLE RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)			
GENERAL ELEC APPLI  201 TRAFALGAR SQ Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HIGHLAND FUNERAL HOME 3331 TAYLORSVILLE RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HIGHLANDS FUNERAL HOME 3331 TAYLORSVILLE RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) ENECA ANIMAL HOSPITAL 2706 TAYLORSVILLE RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) ENECA ANIMAL HOSPITAL 2706 TAYLORSVILLE RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) ENEXAS ROADHOUSE GO40 DUTCHMANS LN GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) ENEXAS ROADHOUSE GO60 DUTCHMANS LN GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) GO60 DUTCHMANS LN GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) AL LUMBER 2812 MONTROSE AVE GOIdsmith Lane Trunk (CSO 015 or South Fork CSOs) BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) EVANS MONUMENT COMPANY 3204 BARDSTOWN RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs)			
HIGHLAND FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ERELAIS RESTAURANT  2817 TAYLORSVILLE RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENERGA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD GOldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  6040 DUTCHMANS LN Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  EXAS ROADHOUSE  6040 DUTCHMANS LN GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  ALUMBER  2812 MONTROSE AVE GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  ANEW TREATMENT CENTER  6420 DUTCHMANS PKWY GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)			
HIGHLANDS FUNERAL HOME  3331 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  E RELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ESNECA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) ETEAK N SHAKE  3232 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) EXAS ROADHOUSE  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  EXAPTIST FUNDED  ANDER SET SERVICES  6060 DUTCHMANS LN  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  ANDER SET SERVICES  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  ANDER SET SERVICES  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)			
HOLIDAY INN SOUTHEAST BANQUET & CATE 3255 BARDSTOWN RD  E RELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENERGY ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  STEAK N SHAKE  3232 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  44 LUMBER  2812 MONTROSE AVE  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  A NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)			
LE RELAIS RESTAURANT  2817 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  ENERGY ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  TEXAS ROADHOUSE  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINISTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GOLDTAIT FLEET SERVICES  6060 DUTCHMANS LN  GOLDTAIT LANE TRUNK (CSO 015 or South Fork CSOs)  44 LUMBER  A NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)  GOLDSMITH LANE TRUNK (CSO 015 or South Fork CSOs)			
SENECA ANIMAL HOSPITAL  2706 TAYLORSVILLE RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) STEAK N SHAKE  3232 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  44 LUMBER  A NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)			
GEEAK N SHAKE  3232 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  A NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD  GOLDSMITH Lane Trunk (CSO 015 or South Fork CSOs)			Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
TEAK N SHAKE  3232 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  6040 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  MINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD  GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  44 LUMBER  A NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)  GOLDSmith Lane Trunk (CSO 015 or South Fork CSOs)			
WINSTONS RESTAURANT AT SULLIVAN UNIV 3101 BARDSTOWN RD GOIDS SECRETAL FLEET SERVICES GOOD DUTCHMANS LN GOIDS SECRETAL FLEET SERVICES GOOD DUTCHMANS LN GOIDS SECRETAL FLEET SERVICES GOOD DUTCHMANS LN GOIDS SECRETAL FLEET SERVICES GOOD SECRETAL FLEET		3232 BARDSTOWN RD	
GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  LUMBER  2812 MONTROSE AVE  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  APPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  VANS MONUMENT COMPANY  3204 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)			
GE CAPITAL FLEET SERVICES  6060 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  LUMBER  2812 MONTROSE AVE  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  NEW TREATMENT CENTER  6420 DUTCHMANS PKWY  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  APPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  VANS MONUMENT COMPANY  3204 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)	VINSTONS RESTAURANT AT SULLIVAN UNIV	3101 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
2812 MONTROSE AVE Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) A NEW TREATMENT CENTER 6420 DUTCHMANS PKWY Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) BAPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) CAFE J DELI & CATERING AT THE JEWISH CG 3600 DUTCHMANS LN Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) EVANS MONUMENT COMPANY 3204 BARDSTOWN RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)	GE CAPITAL FLEET SERVICES		Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
A NEW TREATMENT CENTER 6420 DUTCHMANS PKWY Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  APPTIST HOSPITAL EAST HOME HEALTH AG 6420 DUTCHMANS PKWY Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  CAFE J DELI & CATERING AT THE JEWISH C(3600 DUTCHMANS LN Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)  EVANS MONUMENT COMPANY 3204 BARDSTOWN RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)	4 LUMBER	2812 MONTROSE AVE	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
BAPTIST HOSPITAL EAST HOME HEALTH AG 8420 DUTCHMANS PKWY Goldsmith Lane Trunk (CSO 015 or South Fork CSOs) CAFE J DELI & CATERING AT THE JEWISH C43600 DUTCHMANS LN GOldsmith Lane Trunk (CSO 015 or South Fork CSOs) EVANS MONUMENT COMPANY 3204 BARDSTOWN RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)	NEW TREATMENT CENTER	3420 DUTCHMANS PKWY	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
CAFE J DELI & CATERING AT THE JEWISH CG3600 DUTCHMANS LN  EVANS MONUMENT COMPANY  3204 BARDSTOWN RD  Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)		420 DUTCHMANS PKWY	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
VANS MONUMENT COMPANY 3204 BARDSTOWN RD Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)			
CENTRAL CONTROL OF THE PRODUCTION OF THE PRODUCT			Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
KINGSLEYS MEAT SEAFOOD & CATERING	2701 TAYLORSVILLE RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
KROGER CO #304	3338 BON AIR AVE	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
KY FRIED CHICKEN	2617 GARDINER LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
CY FRIED CHICKEN	274 BRECKINRIDGE SQ	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
MCDONALD'S RESTAURANTS	3340 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
MIDAS AUTO SYSTEMS EXPERTS	3325 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
MR GAFTI'S	3319 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
MR GATTIS	3319 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
MUSA'S HAIR SALON	3010 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
NU YALE DRY CLEANERS	3010 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
NU YALE SANITONE CLEANERS	3010 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
POPEYE'S CHICKEN & BISCUITS	3317 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
PRICE, DENNIS R DR/DNTST	2811 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
QDOBA MEXICAN GRILL	970 BRECKENRIDGE LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
RAFFERTY'S OF LOUISVILLE	988 BRECKENRIDGE LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
RALLY'S HAMBURGERS	3290 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
RITE AID EXPRESS 1 HOUR PHOTO	3012 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
SPEEDY MART	2911 BARDSTOWN RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
SUPERAMERICA	2720 TAYLORSVILLE RD	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
WENDYS OLD FASHIONED HAMBURGERS	978 BRECKENRIDGE LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
WENDY'S OLD FASHIONED HAMBURGERS	978 BRECKENRIDGE LN	Goldsmith Lane Trunk (CSO 015 or South Fork CSOs)
ABBY GLEN DESIGNS	6500 GLENRIDGE PARK PL	ORFM (CSO 211)
		ORFM (CSO 211)
ADMI AUTOMOTIVE DEALER MANAGEMENT	9488 BROWNSBORO RD	ORFM (CSO 211)
BABCOCK CHRIS DMD MD	10761 FISCHER PARK DR	ORFM (CSO 211)
BOB EVANS FARMS RESTAURANTS		
BROWNSBORO FAMILY DENTISTRY	4882 BROWNSBORO RD	ORFM (CSO 211)
BROWNSBORO PARK PEDIATRICS PSC	6002 BROWNSBORO PARK BLVD	ORFM (CSO 211)
BROWNSBORO PARK RETIREMENT COMMU		ORFM (CSO 211)
BROWNSBORO PEDIATRICS	4884 BROWNSBORO RD	ORFM (CSO 211)
CAMELOT HEALTHC	7414 FALLS RIDGE CT	ÖRFM (CSO 211)
CHICK-FIL-A	10501 WESTPORT RD	ORFM (CSO 211)
CHICK-FIL-A	3945 NAPANEE RD	ORFM (CSO 211)
DENTAL HEALTH CENTER	2323 LIME KILN LN	ORFM (CSO 211)
DOOLEY'S BAGELS & DELI	2226 HOLIDAY MANOR CTR	ORFM (CSO 211)
EAST LOUISVILLE ANIMAL HOSPITAL	4158 WESTPORT RD	ORFM (CSO 211)
EAST LOUISVILLE DERMATOLOGY PSC	4912 US HIGHWAY 42	ORFM (CSO 211)
EAST LOUISVILLE PEDIATRICS PSC OFFICE	4171 WESTPORT RD	ORFM (CSO 211)
FRIDAY'S	2311 LIME KILN LN	ORFM (CSO 211)
GE COMPANY.	3711 TRAIL RIDGE RD	ORFM (CSO 211)
GE COMPANY	3712 FALLEN TIMBER DR	ORFM (CSO 211)
GOOSE CREEK ANIMAL CLINIC	9406 BLOSSOM LN	ORFM (CSO 211)
HOLIDAY CLEANERS & SHIRT LAUNDRY	3301 BARBOUR LN	ORFM (CSO 211)
HOLIDAY MANOR BP SERVICE STATION	4944 US HIGHWAY 42	ORFM (CSO 211)
HUNGRY PELICAN THE	2929 GOOSE CREEK RD	ORFM (CSO 211)
NCH BY INCH HAIR SALON	4854 BROWNSBORO CTR	ORFM (CSO 211)
IERSEY MIKE'S SUBS	2415 LIME KILN LN	ORFM (CSO 211)
JERSEY MIKES SUBS & SALADS	10519 FISCHER PARK DR	ORFM (CSO 211)
KAHUNA 225 CLEANERS	3554 SPRINGHURST BLVD	ORFM (CSO 211)
KINDERCARE LEARNING CENTERS	2013 HERR LN	ORFM (CSO 211)
KINGSLEY'S MEAT SEAFOOD	4919 BROWNSBORO RD	ORFM (CSO 211)
KROGER CONTROL OF THE	2219 HOLIDAY MANOR CTR	ORFM (CSO 211)
A PECHE CAFE	2231 HOLIDAY MANOR CTR	ORFM (CSO 211)
A PECHE CATERING	2231 HOLIDAY MANOR CTR	ORFM (CSO 211)
	2226 HOLIDAY MANOR CTR	ORFM (CSO 211)
A REE BEAUTY SALON SCHLOTZSKY'S DELI	10531 FISCHER PARK DR	ORFM (CSO 211)
SERVICE PLUS CHEVRON #4	4900 BROWNSBORO RD	ORFM (CSO 211)
	9504 BLOSSOM LN	ORFM (CSO 211)
SHERWOOD'S CARWASH		ORFM (CSO 211)
SPEEDWAY PETROLEUM INC	4150 WESTPORT RD	ORFM (CSO 211)
SPRINGHURST FAMILY DENTISTRY	9480 BROWNSBORO RD	ORFM (CSO 211)
SPRINGHURST MEDICAL CENTER	3800 SPRINGHURST BLVD	
SPRINGHURST PEDIATRICS PLLC	10210 WESTPORT RD	ORFM (CSO 211)
STARBUCKS COFFE	7022 WOODED MEADOW RD	ORFM (CSO 211)
STARBUCKS COFFEE	3521 SPRINGHURST COMMONS DR	ORFM (CSO 211)
STARBUCKS COFFEE	4001 SUMMIT PLAZA DR	ORFM (CSO 211)
STEAK N SHAKE AT SPRINGHURST TOWNE		ORFM (CSO 211)
SWIFTY SERVICE STATION	4946 US HIGHWAY 42	ORFM (CSO 211)
OKYO JAPANESE RESTAURANT	2415 LIME KILN LN	ORFM (CSO 211)
/ALE PHOTOGRAPHY	3919 BURNING BUSH RD	ORFM (CSO 211)
WENDYS OLD FASHIONED HAMBURGERS	10741 FISCHER PARK DR	ORFM (CSO 211)
WESTPORT ANIMAL HOSPITAL	4167 WESTPORT RD	ORFM (CSO 211)
WICKS PIZZA GOOSE CREEK	2927 GOOSE CREEK RD	ORFM (CSO 211)
211 CLOVER LANE RESTAURANT	211 CLOVER LN	ORFM (CSO 211)
AMERICAN CHIROPRACTIC PROSPECT	4713 FOX DEN CT	ORFM (CSO 211)
AMERICAN FAMILY ORTHODONTICS	10500 FISCHER PARK DR	ORFM (CSO 211)
AMERICAN FAMILY PEDIATRIC DENTISTRY	10500 FISCHER PARK DR	ORFM (CSO 211)
WIERICAN FAMILI PEDIA IRIG DEN HOLKI		

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
AVISH GARDENS	9422 BROWNSBORO RD	ORFM (CSO 211)
BAPTIST HOME EA	3001 N HURSTBOURNE PKWY	ORFM (CSO 211)
BAPTIST HOME EAST	3001 N HURSTBOURNE PKWY	ORFM (CSO 211)
BAPTIST HOSPITA	357 RIDGEWAY AVE	ORFM (CSO 211)
BARBOUR LANE ANIMAL HOSPITAL	3303 BARBOUR LN	ORFM (CSO 211)
BEARNO'S PIZZA	2226 HOLIDAY MANOR CTR	ORFM (CSO 211)
BEAUTY FIRST STORE & SALON	4141 TOWNE CENTER DR	ORFM (CSO 211)
DAIRY QUEEN	4902 BROWNSBORO RD	ORFM (CSO 211)
DOMINOS PIZZA	9409 WESTPORT RD	ORFM (CSO 211)
DOMINO'S PIZZA	9409 WESTPORT RD	ORFM (CSO 211)
EVERGREEN CHRISTIAN COUNSELING MAR		ORFM (CSO 211)
HEAR IN AMERICA	5100 US HIGHWAY 42	ORFM (CSO 211)
HIGHLAND CLEANERS	4007 BROWNSBORO RD	ORFM (CSO 211)
HIGHLAND CLEANERS	4966 US HIGHWAY 42	ORFM (CSO 211)
HOLIDAY MANOR SALON AND SPA	2226 HOLIDAY MANOR CTR	ORFM (CSO 211)
JEWISH HOSPITAL	2800 WAREHAM RD	ORFM (CSO 211)
JEWISH HOSPITAL	410 TRINITY HILLS LN	ORFM (CSO 211)
JEWISH HOSPITAL	6651 NORTHRIDGE CIR	ORFM (CSO 211)
KFC	4910 US HIGHWAY 42	ORFM (CSO 211)
KFC	9487 WESTPORT RD	ORFM (CSO 211)
KFC OFFICE	1800 RUDY LN	ORFM (CSO 211)
KINGSLEYS MEAT SEAFOOD & CATERING	4919 BROWNSBORO RD	ORFM (CSO 211)
KROGER COMPANY	9440 BROWNSBORO RD	ORFM (CSO 211)
KROGER COMPANY	8907 DUXBURY RD	ORFM (CSO 211)
KY FRIED CHICKEN KY FRIED CHICKEN	2516 GLEN EAGLE DR	ORFM (CSO 211)
KY FRIED CHICKEN	3225 TRAIL RIDGE RD	ORFM (CSO 211)
KY FRIED CHICKEN	3907 ASHRIDGE DR	ORFM (CSO 211)
KY FRIED CHICKEN	5210 MOCCASIN TRL	ORFM (CSO 211)
KY FRIED CHICKEN	6905 FALLEN LEAF CIR	ORFM (CSO 211)
MARK IV HAIRSTYLES	7804 ALBRECHT CIR	ORFM (CSO 211)
MARTINI ITALIAN BISTRO	9419 WESTPORT RD 4021 SUMMIT PLAZA DR	ORFM (CSO 211)
MARTINIZING DRY CLEANING	9449 WESTPORT RD	ORFM (CSO 211)
MAX & ERMA'S RESTAURANTS	3921 SUMMIT PLAZA DR	ORFM (CSO 211) ORFM (CSO 211)
MCALISTER DELI GLENVIEW POINTE	2400 LIME KILN LN	ORFM (CSO 211)
MCDONALD'S	9254 WESTPORT RD	ORFM (CSO 211)
MCDONALD'S RESTAURANTS	287 N HUBBARDS LN	ORFM (CSO 211)
MCDONALD'S RESTAURANTS	4940 BROWNSBORO RD	ORFM (CSO 211)
MEYERS SAM CLEANERS AND SHIRT LAUNE	2212 HOLIDAY MANOR CTR	ORFM (CSO 211)
NORTON HEALTHCA	511 INDIAN RIDGE RD	ORFM (CSO 211)
NU YALE DRY CLEANERS	9452 BROWNSBORO RD	ORFM (CSO 211)
NU YALE SANITONE CLEANERS	9452 BROWNSBORO RD	ORFM (CSO 211)
O'CHARLEY'S	10641 FISCHER PARK DR	ORFM (CSO 211)
OLAN MILLS STUDIO	4100 TOWNE CENTER DR	ORFM (CSO 211)
ON THE BORDER MEXICAN GRILL & CANTINA	10601 FISCHER PARK DR	ORFM (CSO 211)
ONE HOUR MOTOPHOTO AND PORTRAIT ST	9454 BROWNSBORO RD	ORFM (CSO 211)
OUTBACK STEAKHOUSE	9498 BROWNSBORO RD	ORFM (CSO 211)
PANERA BREAD	10451 CHAMPION FARMS DR	ORFM (CSO 211)
PIPPIN CAR WASH	9504 BLOSSOM LN	ORFM (CSO 211)
PIZZA HUT	3610 SPRINGHURST BLVD	ORFM (CSO 211)
PIZZA MAGIA	2415 LIME KILN LN	ORFM (CSO 211)
PIZZA MAGIA	4006 ELFIN AVE	ORFM (CSO 211)
PLAINVIEW CLEANERS	2415 LIME KILN LN	ORFM (CSO 211)
PREMIER LAB COR	9200 BLOSSOM LN	ORFM (CSO 211)
QDOBA MEXICAN GRILL	4059 SUMMIT PLAZA DR	ORFM (CSO 211)
QUIZNOS	4045 SUMMIT PLAZA DR	ORFM (CSO 211)
RAFFERTY'S OF LOUISVILLE	3601 SPRINGHURST BLVD	ORFM (CSO 211)
RITE AID EXPRESS 1 HOUR PHOTO	9459 WESTPORT RD	ORFM (CSO 211)
RITE AID EXPRESS I HOURER PHOTO	9459 WESTPORT RD	ORFM (CSO 211)
SAINT MATTHEWS IMPORT SERVICE INC SALON DE COIFFURE	4164 WESTPORT RD	ORFM (CSO 211)
SALON DE COIFFURE	211 CLOVER LN	ORFM (CSO 211)
SAM MEYERS CLEANERS AND SHIRT LAUND	4156 WESTPORT RD	ORFM (CSO 211)
SOUPY'S RESTAURANT	9493 WESTPORT RD	ORFM (CSO 211)
SPEEDY MART	10490 WESTPORT RD	ORFM (CSO 211) ORFM (CSO 211)
STARBUCKS COFFEE INC	4942 US HIGHWAY 42	ORFM (CSO 211)
SUBWAY SANDWICH SHOP	4945 BROWNSBORO RD	ORFM (CSO 211)
SUBWAY SANDWICHES	10512 FISCHER PARK DR	ORFM (CSO 211)
JNIV OF LOUISVILLE	7606 OLD ORCHARD CIR	ORFM (CSO 211)
ALVOLINE INSTANT OIL CHANGE	4935 BROWNSBORO RD	ORFM (CSO 211)
	4955 BROWNSBORO RD	ORFM (CSO 211)
	9489 WESTPORT RD	ORFM (CSO 211)
	10741 FISCHER PARK DR	ORFM (CSO 211)
	4955 BROWNSBORO RD	ORFM (CSO 211)
		ORFM (CSO 211)
DU PONT DE NEMOURS E I & CO LOUISVILLE	4242 CAMP GROUND RD	Rubbertown FM (None)
		- Cabbot Cetter & W. (TOOLO)

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
E I DUPONT	4200 CAMP GROUND RD	Rubbertown FM (None)
ECKART	4101 CAMP GROUND RD	Rubbertown FM (None)
ECKART ALUMINUM	4101 CAMP GROUND RD	Rubbertown FM (None)
ZEON CHEMICALS	4100 BELLS LN	Rubbertown FM (None)
DUPONT DOW ELASTOMERS LLC	4242 CAMP GROUND RD	Rubbertown FM (None)
DUPONT FLUOROPRODUCT	4200 CAMP GROUND RD	Rubbertown FM (None)
DUPONT FLUOROPRODUCTS	4200 CAMP GROUND RD	Rubbertown FM (None)
OXY VINYLS	4200 BELLS LN	Rubbertown FM (None)
POLYONE CORPORATION	4200 BELLS LN	Rubbertown FM (None)
ROHM & HAAS CO	4300 CAMP GROUND RD	Rubbertown FM (None)
ROHM AND HAAS COMPANY CHEMCLS	4300 CAMP GROUND RD	Rubbertown FM (None)
ZEON CHEMICALS LP	4100 BELLS LN	Rubbertown FM (None)
KINDERCARE LEARNING CENTERS	730 ZORN AVE	Muddy Fork (CSO 154)
THOROUGHBRED DRY CLEANERS	3017 RIVER RD	Muddy Fork (CSO 154)
V A MEDICAL CTR	800 ZORN AVE	Muddy Fork (CSO 154)
VA HEALTHCARE C	800 ZORN AVE	Muddy Fork (CSO 154)
VA MEDICAL CENTER AND OUTPATIENT CLIF		Muddy Fork (CSO 154)
BEAUTY FIRST ST	2400 MELLWOOD AVE	Muddy Fork (CSO 154)
KROGER CO #304	725 N HITE AVE	Muddy Fork (CSO 154)
MCALISTER DELI	2839 COLEEN CT	Muddy Fork (CSO 154)
UNIV OF LOUISVILLE	2506 RIVERMONT CT	Muddy Fork (CSO 154)
VA MEDICAL CENTER AND OUTPATIENT SEF		Muddy Fork (CSO 154)
A G EDWARDS & SONS INC	101 BULLITT LN	Middle Fork Upstream of Breckenridge (various)
ALL CHILDREN PEDIATRICS	400 BLANKENBAKER PKWY	Middle Fork Upstream of Breckenridge (various)
ALLEY CAT CAFE & CATERING	11804 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
ALMOST FAMILY	100 MALLARD CREEK RD	Middle Fork Upstream of Breckenridge (various)
AMERICAN EXPRES	1508 CANARY PL	Middle Fork Upstream of Breckenridge (various)
AMERICAN EXPRESS	806 STONE CREEK PKWY	Middle Fork Upstream of Breckenridge (various)
ARENSMAN BOONE & MCOMBER PEDIATRIC		Middle Fork Upstream of Breckenridge (various)
AUTOZONE	11710 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BAPTIST URGENT	1720 BRIDGEVIEW LN	Middle Fork Upstream of Breckenridge (various)
BELLEWOOD PRESBYTERIAN HOME	1600 CARING WAY	Middle Fork Upstream of Breckenridge (various)
BELLEWOOD PRESBYTERIAN HOME FOR CH		Middle Fork Upstream of Breckenridge (various)
BLACK SHEEP SALON	808 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
BLUEGRASS ORTHOPAEDIC	3920 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
BLUEGRASS SHELL	1400 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
BOB EVANS FARMS RESTAURANTS	9797 BLAIRWOOD RD	Middle Fork Upstream of Breckenridge (various)
BOWTIE EXPRESS CAR WASH		Middle Fork Upstream of Breckenridge (various)
BP OIL	4555 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
BRANDON'S BAR-B-QUE & CATERING		Middle Fork Upstream of Breckenridge (various)
BRAVADA SALON	1223 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
BRESLIN FAMILY DENTISTRY		Middle Fork Upstream of Breckenridge (various)
BREWER R JUDSON MD OFFICE	4003 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BROOKSIDE SALON	200 BROOKSIDE DR	Middle Fork Upstream of Breckenridge (various)
BUCKHEAD MOUNTAIN GRILL	10430 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BUNDLE EXPRESS INDUSTRIAL LAUNDRY SE		Middle Fork Upstream of Breckenridge (various)
BURTON, E RAMSEY JR DMD/DNTST	4010 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
CALL NAILS	9800 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CAMELOT COIN LAUNDRY	1309 HERR LN	Middle Fork Upstream of Breckenridge (various)
CAMELOT FAMILY DENTAL CENTER		Middle Fork Upstream of Breckenridge (various)
CAPTAIN DS SEAFOOD RESTAURANT	1303 CLEAR SPRINGS TRCE	Middle Fork Upstream of Breckenridge (various)
CARDINAL VETERINARY LABORATORY INC	1101 HERR LN	Middle Fork Upstream of Breckenridge (various)
CAROUSEL LAUNDRY	9303 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
CHARLES HEITZMAN BAKERY & DELI	9426 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CHEVRON OXMOOR AUTO CARE	7515 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
CHICK-FIL-A	800 FENLEY AVE	Middle Fork Upstream of Breckenridge (various)
CHILIS GRILL & BAR	421 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
CHINA CITY BUFFET	9228 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
CHINA TOWN	4000 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
CMJ RESTAURANT	10207 LEDBURY WAY 4001 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
TO SECURITAL OF SECURITION OF THE SECURITION OF	CALIFECT OF CHICAGO SINCE LINE	Middle Fork Upstream of Breckenridge (various)
COLUMBIA SUBURBAN HOSPITAL		
CORNER CAFE CARRY OUT	9307 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA DOOLEY'S BAGELS & DELI	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD 216 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA DOOLEY'S BAGELS & DELI DUNKIN DONUTS	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD 216 N HURSTBOURNE PKWY 3911 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA DOOLEY'S BAGELS & DELI DUNKIN DONUTS DUPONT CHEVRON	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD 216 N HURSTBOURNE PKWY 3911 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA DOOLEY'S BAGELS & DELI DUNKIN DONUTS DUPONT CHEVRON ELEMENTS SALON	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD 216 N HURSTBOURNE PKWY 3911 TAYLORSVILLE RD 1001 BRECKENRIDGE LN 11605 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
CORNER CAFE CARRY OUT CRACKER BARREL OLD COUNTRY STORE CREATIVE RESTAU CROCKETT VETERINARY HOSPITAL DENNY'S RESTAURANT DENTAL PRACTICE TRANSITION DENTAL SOLUTIONS NOW DIXIE DRY CLEANERS INC DOMINOS PIZZA DOOLEY'S BAGELS & DELI DUNKIN DONUTS DUPONT CHEVRON	9307 NEW LAGRANGE RD 2000 WARRINGTON WAY 8803 SPRINGSBURY PL 10008 WHIPPS MILL RD 4030 DUTCHMANS LN 920 DUPONT RD 802 STONE CREEK PKWY 10308 SHELBYVILLE RD 8054 NEW LAGRANGE RD 216 N HURSTBOURNE PKWY 3911 TAYLORSVILLE RD 1001 BRECKENRIDGE LN 11605 SHELBYVILLE RD 9301 HURSTBOURNE PARK BLVD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)

	INVENTORY OF NDD IN MFWTP S	ERVICE AREA
Users Name (Dialogic Coverage)	Address	Tributary to CSO#
FAZOLI'S FEDEX KINKO'S	337 WHITTINGTON PKWY	Middle Fork Upstream of Breckenridge (various)
FIREHOUSE BBQ	1235 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
FIVE STAR FOOD MART #854	808 LYNDON LN 4548 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
FOREST GREEN FAMILY DENTISTRY	10031 FOREST GREEN BLVD	Middle Fork Upstream of Breckenridge (various)
FRIDAY'S	9990 LINN STATION RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
FRIENDS HAIR SALON	11421 MAIN ST	Middle Fork Upstream of Breckenridge (various)
FRIENDS SALON INC	11421 MAIN ST	Middle Fork Upstream of Breckenridge (various)
FRISCH'S BIG BOY RESTAURANTS	4800 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
FRITZ'S	164 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
GARRETT'S RESTAURANT	9601 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
GE APPLIANCE	1108 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
GE COMPANY	307 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
GE COMPANY	305 N HURSTBOURNE PKWY 307 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
GE COMPANY	504 TOWER DR	Middle Fork Upstream of Breckenridge (various)
GE COMPANY	8403 NOTTINGHAM PKWY	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
GE COMPANY	850 WASHBURN AVE	Middle Fork Upstream of Breckenridge (various)
GENEX SERVICES	10503 TIMBERWOOD CIR	Middle Fork Upstream of Breckenridge (various)
GOLDEN CORRAL RESTAURANT	4032 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
GOODYEAR AUTO SERVICE CENTERS	4909 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
GOODYEAR CERTIFIED AUTO SERVICE CEN GREAT STEAK & POTATO CO	12344 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
HARPER'S RESTAURANT	221 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
HEADY ARCH L & SON FUNERAL DIRECTOR	871 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
HEUSTIS AUTO SUPPLY	717 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
HEUSTIS AUTO SUPPLY INC	11804 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
HIGHLAND CLEANERS	11600 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
HIGHLAND CLEANERS	205 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
HIKES POINT FUNERAL HOME	4109 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
HOOTERS	4120 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
HOT LOCKS FULL SERVICE SALON	4004 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
HUNGRY PELICAN THE	4107 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
HURSTBOURNE BP IMMEDIATE CARE CENTER	1323 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
IMMEDIATE CARE CENTER	10284 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
IMPELLIZZERIS TONY ITALIAN RESTAURANT	10284 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
J ALEXANDER'S RESTAURANT	102 OXMOOR CT	Middle Fork Upstream of Breckenridge (various)
J RS SPA & SALON	1115 DUPONT CIR	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
JERSEY MIKE'S SUBS & SALADS	10266 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
JEWISH HOSPITAL	114 EXECUTIVE PARK	Middle Fork Upstream of Breckenridge (various)
JONES, MELVIN T DR/DNTST	8013 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
KEN TOWERY AUTO CARE	7511 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
KEN TOWERY"S AUTO C KFC	7511 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
KFC	10202 SPRINGSIDE PL	Middle Fork Upstream of Breckenridge (various)
KINDERCARE LEARNING CENTERS	12206 SHELBYVILLE RD 1100 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
KINDERCARE LEARNING CENTERS	1110 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
KINDERCARE LEARNING CENTERS	8016 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
KINGFISH RESTAU	7400 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
KINGFISH RESTAURANT	7400 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
A PETITE ACADEMY	10501 TIMBERWOOD CIR	Middle Fork Upstream of Breckenridge (various)
AB CORP	1313 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
_ABCORP	7819 ROYALTY AVE	Middle Fork Upstream of Breckenridge (various)
LYNDON ANIMAL CLINIC	1000 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
MAGIC SPARKLE CAR WASH MOBY DICK SEAFOOD	3901 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
PEDIATRIC & NEONATAL SPECIALISTS	4848 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	3991 DUTCHMANS LN 5005 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	4010 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
PICCADILLY CAFETERIA	133 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
\ • • <del> </del>	600 EXECUTIVE PARK	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
SALON 600	9932 LINN STATION RD	Middle Fork Opstream of Breckenridge (various)
SAVANNAHS BAR & GRILL	11800 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SBARRO PIZZA	5000 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	4014 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
	1335 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
	9409 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	9900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
	8005 SHELBYVILLE RD 9210 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
ONIC DRIVE IN		Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
		Middle Fork Opstream of Breckenridge (various)  Middle Fork Upstream of Breckenridge (various)
0114 == 0.001 == 1111		Middle Fork Upstream of Breckenridge (various)

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
SQUARE D COMPANY	8300 DOVECREST CT	Middle Fork Upstream of Breckenridge (various)
STAR CHEMICALS	8027 1/2 VINE CREST AVE	Middle Fork Upstream of Breckenridge (various)
STARBUCKS COFFEE	101 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
STARBUCKS CORPORATION	101 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
SUBURBAN CLEANERS	9613 WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various)
SUPERAMERICA	12102 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SUPERAMERICA	1415 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
TEN BROECK HEALTHCARE	1405 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
TEN BROECK HOSPITALS	1405 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
THE HAIR SALON	10420 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORP	10101 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
TONY ROMAS FAMOUS FOR RIBS	150 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
TOWERYS KEN AUTO CARE SUPER CENTER	11811 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
TOWERYS KEN AUTO CARE SUPER CENTER	7511 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
TOWNE HOUSE BEAUTY SALON	2931 RICHLAND AVE	Middle Fork Upstream of Breckenridge (various)
TUMBLEWEED SOUT	2824 YORKSHIRE BLVD	Middle Fork Upstream of Breckenridge (various)
JNIV OF LOUISVILLE	1002 GARDEN CREEK CIR	Middle Fork Upstream of Breckenridge (various)
JNIVERSITY OF L	508 BRIGHTWOOD PL	Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE	11813 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
N W COUSINS RESTAURANT	900 DUPONT RD	Middle Fork Upstream of Breckenridge (various)
WALL STREET DELI	3920 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
WESTPORT MEDICAL	8700 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
WESTPORT PRIMARY CARE	2500 HERMITAGE WAY	Middle Fork Upstream of Breckenridge (various)
WESTPORT PRIMARY CARE CENTER	2500 HERMITAGE WAY	Middle Fork Upstream of Breckenridge (various)
WESTPORT RD DENTAL CENTER	8730 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
WISDOM GENE DENTAL LABORATORY	4119 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
STARBUCKS COFFEE	4400 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
1 MD LOUISVILLE PLLC	901 DUPONT RD	Middle Fork Upstream of Breckenridge (various)
IST CHOICE MEDICAL CENTER	1834 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
4020607 ST MATTHEWS CARRIERS	4600 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
A PLUS NAILS	119 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
A T C HEALTHCARE SERVICES INC	9820 TIVERTON WAY	Middle Fork Upstream of Breckenridge (various)
ABSOLUTELY NAILS II	11901 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
ACADEMY OF DENTAL ASSISTING	400 BLANKENBAKER PKWY	Middle Fork Upstream of Breckenridge (various)
ACADEMY OF LOUISVILLE VETERINARIANS	1000 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
ACADEMY OF LOUISVILLE VETERINARIANS	8706 BAYBERRY PL	Middle Fork Upstream of Breckenridge (various)
ADVANCED EYE CA	4433 CORDOVA RD	Middle Fork Upstream of Breckenridge (various)
ADVANCED EYE CARE	4001 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
ADVANCED IMAGING CON	1302 CLEAR SPRINGS TRCE	Middle Fork Upstream of Breckenridge (various)
ADVANCED IMAGING CONCEPTS	1302 CLEAR SPRINGS TRCE	Middle Fork Upstream of Breckenridge (various)
ADVANCED REHABILITATION SPECIALISTS	1406 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
ADVENTIST PRE SCHOOL & CHILD CARE	125 N WATTERSON TRL	Middle Fork Upstream of Breckenridge (various)
AFFINITY HAIR AND NAIL SALON INC	4010 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
AKZO NOBEL	804 FOXGATE RD	Middle Fork Upstream of Breckenridge (various)
ALACRITY HEALTHCARE	4006 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
ALL PRO NAILS	1255 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
	1000 GARDEN POINTE PL	Middle Fork Upstream of Breckenridge (various)
ALMOST FAMILY	521 LEYTON AVE	Middle Fork Upstream of Breckenridge (various)
ALMOST FAMILY	9510 ORMSBY STATION RD	Middle Fork Upstream of Breckenridge (various)
ALMOST FAMILY ALMOST FAMILY I	100 MALLARD CREEK RD	Middle Fork Upstream of Breckenridge (various)
	9505 WILLIAMSBURG PLZ	Middle Fork Upstream of Breckenridge (various)
AMERICAN FAMILY ORTHODONTICS		Middle Fork Upstream of Breckenridge (various)
ANIMAL HEALTH CENTERS OF AMERICA PLI	FOOO SHELD I VILLE NO	Middle Fork Upstream of Breckenridge (various)
APPLEBEE'S NEIGHBORHOOD GRILL & BAR APPLEBEE'S NEIGHBORHOOD GRILL & BAR	0024 ODMSBY STATION DD	Middle Fork Upstream of Breckenridge (various)
	1000 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
ASSOCIATED VETERINARY SPECIALISTS	9242 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
ASSOCIATES IN FAMILY PRACTICE		Middle Fork Upstream of Breckenridge (various)
ASSOCIATES IN GENERAL DENTISTRY PSC	4010 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
ATLAS PRINTING	9983 VIEUX CARRE DR	Middle Fork Upstream of Breckenridge (various)
AUTO DIAGNOSTIC & REPAIR CENTER	11501 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BAPTIST DENTAL GROUP	4001 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST EAST DIAGNOSTIC IMAGING CENT		Middle Fork Upstream of Breckenridge (various)
BAPTIST HEALTHCARE SYSTEM	4007 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HEALTHCARE SYSTEM SUPPORT		Middle Fork Opstream of Breckenridge (various)
BAPTIST HOME EA	1301 CLEAR SPRINGS TRCE	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOMES FOR CHILDREN INC BUSIN		Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITA	4007 KRESGE WAY	
BAPTIST HOSPITA	425 S HUBBARDS LN	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITA	501 TOWER DR	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST	4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST PATIEN	4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST OUTPATIENT PHY	4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST PHYSICIAN REFEI	R 4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST REHABILITATION	P 4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
BAPTIST HOSPITAL EAST SLEEP DISORDER	4000 KRESGE WAY	Middle Fork Upstream of Breckenridge (various)
RAP (19   HOSP(TAL EAS) STEEL DISORDED		
BAPTIST HUSPITAL EAST SLEEP DISORDER BAPTIST URGENT CARE	12010 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)

Users Name (Dialogic Coverage)	NVENTORY OF NDD IN MFWTP SE	
	Address	Tributary to CSO#
BEAUTY FIRST STORE & SALON BEAUTY FIRST STORE & SALON	4500 BOWLING BLVD	Middle Fork Upstream of Breckenridge (various)
BEAUTY FIRST STORE & SALON	4600 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BEAUTY GALLERY OF LOUISVILLE	849 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
BEAUTY WAREHOUSE OFFICE	4012 DUPONT CIR 4500 BOWLING BLVD	Middle Fork Upstream of Breckenridge (various)
BEEF O BRADYS FAMILY SPORTS PUB	241 BLANKENBAKER PKWY	Middle Fork Upstream of Breckenridge (various)
BEHA'S CLEANERS	7907 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
BELMONT VILLAGE SENIOR LIVING COMMU	N 4600 BOWLING BLVD	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
BIGFOOT FOOD ST	8145 COPPERCREEK DR	Middle Fork Opstream of Breckenridge (various)
BIGFOOT FOOD STORES	1200 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
BIGFOOT FOOD STORES	9401 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
BIGFOOT FOOD STORES	9619 WHIPPS MILL RD	Middle Fork Upstream of Breckenridge (various)
BLUEGRASS FAMILY HEALTH	9750 ORMSBY STATION RD	Middle Fork Upstream of Breckenridge (various)
BLUEGRASS MUFFLER & BRAKE INC	103 N MADISON AVE	Middle Fork Upstream of Breckenridge (various)
BLUEGRASS ORTHOPAEDIC GROUP	4001 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
BONEFISH GRILL	213 S HAMPTON RD	Middle Fork Upstream of Breckenridge (various)
BONEFISH GRILL	657 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
CAFETERIA	4600 LYNNBROOK DR	Middle Fork Upstream of Breckenridge (various)
CAMELOT HEALTHCARE	1101 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
CARRABBA'S ITALIAN GRILL	617 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
CASWELL'S SALON	8029 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
CYSTIC FIBROSIS FOUNDATION KENTUCKY	1230 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
DAIRY QUEEN	11806 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
DAIRY QUEEN DEGEORGE VICTOR S	4026 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
DOMINO'S PIZZA	8013 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
DOMINO'S PIZZA	11517 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
DOMINO'S PIZZA	8054 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
DUPONT DENTAL	9208 LINN STATION RD 3932 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
DUPONT DENTAL OFFICE	3932 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
DUPONT DENTAL OFFICES	3932 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
DUPONT MEDICAL ASSOCIATES	3991 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
ELIAS JAMES R DMD ;FAMILY DENTISTRY	9900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
FRITZ, JOHN F MD/DNTST	7902 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
HEADY ARCH L & SON FUNERAL DIRECTOR:	7410 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
HEADY WILLHITE BALLARD FUNERAL HOME	11507 MAIN ST	Middle Fork Upstream of Breckenridge (various)
HURSTBOURNE FAMILY DENTAL OFFICE	8013 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
JEWISH HOSPITAL MEDICAL CENTER EAST	3920 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
JEWISH MED CENT	9405 MILL BROOK RD	Middle Fork Upstream of Breckenridge (various)
KFC	3905 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
KIDS TIME CHILD CARE	4600 LYNNBROOK DR	Middle Fork Upstream of Breckenridge (various)
KIDS WAREHOUSE	1300 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
KIM'S CLEANERS	221 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
KINGFISH RESTAURANTS BANQUETS KROGER	7400 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
KROGER	9236 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
KROGER L-272 KIOSK	9812 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN	9236 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN	217 FAIRMEADE RD 4308 BOWLING BLVD	Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN		Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN	7606 CAMELOT CT	Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN	8019 WOOD CREEK CT	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
KY FRIED CHICKEN	921 WILLOW SPRINGS DR	Middle Fork Upstream of Breckenridge (various)
LAB CORP	1715 JEFFERSON AVE	Middle Fork Upstream of Breckenridge (various)
LAB CORP		Middle Fork Upstream of Breckenridge (various)
LAB CORP	1907 BALFOUR DR	Middle Fork Upstream of Breckenridge (various)
LIMESTONE RESTAURANT	10001 FOREST GREEN BLVD	Middle Fork Upstream of Breckenridge (various)
LITTLE LAMBS' ACADEMY	1403 BROWNS LN	Middle Fork Upstream of Breckenridge (various)
LITTLE STARS CHILD DEVELOPMENT CENTE	2930 BRECKENRIDGE LN	Middle Fork Upstream of Breckenridge (various)
LOGAN'S ROADHOUSE	5055 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
LONE STAR STEAKHOUSE	10123 HEADLEY HILL RD	Middle Fork Upstream of Breckenridge (various)
	340 WHITTINGTON PKWY	Middle Fork Upstream of Breckenridge (various)
	12344 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
>015 011 management	7902 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
	8013 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
	1101 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
	5000 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
44.14.04.14.14.14.14.14.14.14.14.14.14.14.14.14		Middle Fork Upstream of Breckenridge (various)
44 54 0 5		Middle Fork Upstream of Breckenridge (various)
	415 DORSEY LN 11422 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
		Middle Fork Upstream of Breckenridge (various)
44		Middle Fork Upstream of Breckenridge (various)
OUT OLD WICH	S OOKS I BOOKING ! IVVI	Middle Fork Upstream of Breckenridge (various)

Users Name (Dialogic Coverage)	Address	Tributary to CSO#
MARX LABORATORIES INC	1100 AMBRIDGE DR	Middle Fork Upstream of Breckenridge (various)
MARY T'S HAIRSTYLIST	8712 BAYBERRY PL	Middle Fork Upstream of Breckenridge (various)
MARYHURST	1015 DORSEY LN	Middle Fork Upstream of Breckenridge (various)
MARYHURST INC.	1015 DORSEY LN	Middle Fork Upstream of Breckenridge (various)
MARY'S HAIR SALON	2933 RICHLAND AVE	Middle Fork Upstream of Breckenridge (various)
MASALA GRILL	7900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MAX & ERMAS RESTAURANTS	290 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
MCALISTER'S DELL NORTH HURSTBOURNE	10041 FOREST GREEN BLVD	Middle Fork Upstream of Breckenridge (various)
MCALLISTER DONALD T MD OFC	4130 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
MCDONALD'S	9900 ORMSBY STATION RD	Middle Fork Upstream of Breckenridge (various)
MCDONALDS CORP #6874	2507 HERMITAGE WAY	Middle Fork Upstream of Breckenridge (various)
MCDONALDS RESTAURANT	9901 ORMSBY STATION RD	Middle Fork Upstream of Breckenridge (various)
MCDONALDS RESTAURANTS	5027 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MCDONALD'S RESTAURANTS	10219 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
MCDONALD'S RESTAURANTS	1100 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
MEDICAL CENTER EAST	3920 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
MEDLEY'S AUTO CARE	4601 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MEYERS SAM CLEANERS AND SHIRT LAUND	4039 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
MICHELE SALON	5005 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MIDAS AUTO SERVICE EXPERTS	4047 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
MIDDLETOWN BEAUTY SALON	206 OLD HARRODS CREEK RD	Middle Fork Upstream of Breckenridge (various)
MIDDLETOWN CHRISTIAN PRE-SCHOOL	500 N WATTERSON TRL	Middle Fork Upstream of Breckenridge (various)
MIKE'S VILLAGE CLEANERS	11802 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MOBY DICK SEAFOOD RESTAURANTS	12012 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
MORGANS PHOTOGRAPHY	2958 RICHLAND AVE	Middle Fork Upstream of Breckenridge (various)
MR GAFTI'S	1108 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
MR GATTIS	1108 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
NAPA RIVER GRILL	3938 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
NEW ATTITUDE HAIR SALON	9810 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
NORTON HEALTHCA	4313 WINGATE RD	Middle Fork Upstream of Breckenridge (various)
NORTON HEALTHCARE	10284 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
NORTON HEALTHCARE	1102 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
NORTON HEALTHCARE	4001 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
NORTON IMMEDIATE CARE CENTERS	10284 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
NORTON IMMEDIATE CARE CENTERS	1102 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
NORTON IMMEDIATE CARE CENTERS AFTER		Middle Fork Upstream of Breckenridge (various)
NORTON REHABILITATION SERVICES	4001 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
NORTON SCOTT A DMD ;MSD	4010 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
NORTON SUBURBAN HOSPITAL	4001 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
NSS ENVIRONMENTAL INC	8003 VINE CREST AVE	Middle Fork Upstream of Breckenridge (various)
NU YALE DRY CLEANERS	10478 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
NU YALE DRY CLEANERS	162 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
	3942 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
NU YALE DRY CLEANERS	9400 HURSTBOURNE PARK BLVD	Middle Fork Upstream of Breckenridge (various)
NU YALE DRY CLEANERS	10478 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
NU YALE SANITONE CLEANERS		Middle Fork Opstream of Breckenridge (various)
NU YALE SANITONE CLEANERS	162 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
NU YALE SANITONE CLEANERS	3942 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
NUNNALLY & WATSON PSC DENTIST	3935 DUPONT CIR	Middle Fork Upstream of Breckenridge (various)
OLYMCO MUFFLER & BRAKE CENTERS	8014 SHELBYVILLE RD	
ONE HOUR MARTINIZING	119 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
DUTBACK STEAKHOUSE	4621 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
DXMOOR CHEVRON AUTO CARE	7515 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
PANERA BREAD COMPANY 823	5000 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
PANERA BREAD COMPANY 824	601 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
PEDIATRIC NEONATAL S	3991 DUTCHMANS LN	Middle Fork Upstream of Breckenridge (various)
PENN STATION EAST COAST SUBS	4600 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
PENNZOIL 10 MINUTE OIL CHANGE CENTER		Middle Fork Upstream of Breckenridge (various)
PENNZOIL CAR WASH #1	613 LYNDON LN	Middle Fork Upstream of Breckenridge (various)
PEP BOYS AUTOMOTIVE SUPERCENTERS	1001 BRECKENRIDGE LN	Middle Fork Upstream of Breckenridge (various)
PIZZA MAGIA	10503 TIMBERWOOD CIR	Middle Fork Upstream of Breckenridge (various)
PIZZA MAGIA	214 S LYNDON LN	Middle Fork Upstream of Breckenridge (various)
PLAINVIEW CLEANERS	10039 FOREST GREEN BLVD	Middle Fork Upstream of Breckenridge (various)
PLAINVIEW CLEANERS	1261 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
PLANTATION DENTAL CENTER	8700 BAYBERRY PL	Middle Fork Upstream of Breckenridge (various)
PORTER PAINTS	117 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
PORTER PAINTS	2931 RICHLAND AVE	Middle Fork Upstream of Breckenridge (various)
PREMIER LAB COR	143 TANGLEWOOD TRL	Middle Fork Upstream of Breckenridge (various)
PREMIER LAB COR	8419 EASTON COMMONS DR	Middle Fork Upstream of Breckenridge (various)
PREMIER LAB CORP	7410 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
PREMIER LAB CORPORATION	7410 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
PREMIER LAB SERVICES	7410 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
PRESTIGE CAR WASH	11610 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
PROVIDENCE CHILDCARE & PRESCHOOL	138 N EVERGREEN RD	Middle Fork Upstream of Breckenridge (various)
	106 N MADISON AVE	Middle Fork Upstream of Breckenridge (various)
		initial in the second of property and the second se
PURE BLISS HAIR AND NAIL SALON  QDOBA MEXICAN GRILL	100 DAVENTRY LN	Middle Fork Upstream of Breckenridge (various)

Users Name (Dialogic Coverage)	NVENTORY OF NDD IN MFWTP SER Address	Tributary to CSO#
QUIZNO'S SUBS #	431 WHITEHEATH LN	Middle Fork Upstream of Breckenridge (various)
QUIZNO'S SUBS #7189	11803 SHELBYVILLE RD	Middle Fork Opstream of Breckenridge (various)  Middle Fork Upstream of Breckenridge (various)
RALLY'S HAMBURGERS	2949 BRECKENRIDGE LN	Middle Fork Upstream of Breckenridge (various)
RITE AID EXPRESS 1 HOUR PHOTO	4000 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
RITE AID EXPRESS I HOURER PHOTO	4000 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
ROD'S AUTOMOTIVE SVC	7917 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
ROLLING HILLS COIN LAUNDRY	9220 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
ROMANO'S MACARONI GRILL	401 S HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
ROMA'S TONY FAMOUS FOR RIBS SALON DELONJAY	150 N HURSTBOURNE PKWY	Middle Fork Upstream of Breckenridge (various)
SALON MICHELE	12113 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SAM MEYERS CLEANERS AND SHIRT LAUN	5005 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SAM MEYERS CLEANERS AND SHIRT LAUN	0512 I YNDON I N	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
SKYLINE CHILI	9980 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
SPEEDWAY SUPERAMERICA	4547 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
SPEEDY MART	7401 NEW LAGRANGE RD	Middle Fork Upstream of Breckenridge (various)
SPEEDY MART	8015 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
STARBUCKS COFFEE	7900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
STARBUCKS COFFEE COMPANY	243 BLANKENBAKER PKWY	Middle Fork Upstream of Breckenridge (various)
STARBUCKS CORPORATION	9993 WILLOW BROOK CIR	Middle Fork Upstream of Breckenridge (various)
STORED VALUE SY	101 BULLITT LN	Middle Fork Upstream of Breckenridge (various)
SUBURBAN MEDICAL PLAZA II SUBWAY	3991 DUTCHMANS LN 5000 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SUBWAY	8709 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
SUBWAY SANDWICH SHOP CAMELOT	1202 LYNDON LN	Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
SUBWAY SANDWICHES & SALADS	3951 1/2 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
SUBWAY SANDWICHES & SALADS	8709 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
SUBWAY SANDWICHES AND PARTY SUBS	7900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
SUPERAMERICA	9416 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
TACO BELL	3950 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
TACO BELL	4910 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
THORNTON OIL CORP	914 BRIXTON RD	Middle Fork Upstream of Breckenridge (various)
TUMBLEWEED SOUTHWEST GRILL	7900 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
TUMBLEWEED SOUTHWEST GRILLE TUMBLEWEED SOUTHWEST MESQUITE GRI	10000 LINN STATION RD	Middle Fork Upstream of Breckenridge (various)
UNITED GRAPHICS	10501 MCMEEKIN LN	Middle Fork Upstream of Breckenridge (various)
UNIV OF LOUISVILLE		Middle Fork Upstream of Breckenridge (various) Middle Fork Upstream of Breckenridge (various)
UNIV OF LOUISVILLE	8120 LAKE TER	Middle Fork Upstream of Breckenridge (various)
UNIV OF LOUISVILLE		Middle Fork Upstream of Breckenridge (various)
UNIV OF LOUISVILLE	9411 DORAL CT	Middle Fork Upstream of Breckenridge (various)
VA MEDICAL CENTER AND OUTPATIENT SER		Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE	3920 TAYLORSVILLE RD	Middle Fork Upstream of Breckenridge (various)
VALVOLINE INSTANT OIL CHANGE	8701 WESTPORT RD	Middle Fork Upstream of Breckenridge (various)
WAFFLE HOUSE WENDYS OLD FASHIONED HAMBURGERS		Middle Fork Upstream of Breckenridge (various)
WENDYS OLD FASHIONED HAMBURGERS		Middle Fork Upstream of Breckenridge (various)
WENDYS OLD FASHIONED HAMBURGERS		Middle Fork Upstream of Breckenridge (various)  Middle Fork Upstream of Breckenridge (various)
WENDY'S OLD FASHIONED HAMBURGERS		Middle Fork Opstream of Breckenridge (various)
WENDY'S OLD FASHIONED HAMBURGERS	7601 SHELBYVILLE RD	Middle Fork Upstream of Breckenridge (various)
AMERICAN BRAKE CENTERS		Nightingale PS (CSO 015 or South Fork CSOs)
AUTO BODY PANELS	4531 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
AUTO INJURY CHIROPRACTIC	1939 GOLDSMITH LN	Nightingale PS (CSO 015 or South Fork CSOs)
BOB EVANS FARMS RESTAURANTS	4000 GARDINER POINT DR	Nightingale PS (CSO 015 or South Fork CSOs)
CARDINAL VETERINARY LABORATORIES	4210 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
CARDINAL VETERINARY LABORATORY CASPIAN GRILLE	4210 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
CATHERINE LAND DMD PLLC		Nightingale PS (CSO 015 or South Fork CSOs)
CLASSIC AUTO DETAIL		Nightingale PS (CSO 015 or South Fork CSOs) Nightingale PS (CSO 015 or South Fork CSOs)
COLLINS, PAULA L DMD/DNTST		Nightingale PS (CSO 015 of South Fork CSOs)
CONSOLIDATED TIRE & AUTOMOTIVE CENTE		Nightingale PS (CSO 015 or South Fork CSOs)
CONSOLIDATED TIRE & AUTOMOTIVE CENTE	Value and the same	Nightingale PS (CSO 015 or South Fork CSOs)
DENTAL IMPLANT INSTITUTE		Nightingale PS (CSO 015 or South Fork CSOs)
IVE STAR FOOD MART #5611		Nightingale PS (CSO 015 or South Fork CSOs)
RISCH'S BIG BOY		Nightingale PS (CSO 015 or South Fork CSOs)
		Nightingale PS (CSO 015 or South Fork CSOs)
GE CAPITAL		Nightingale PS (CSO 015 or South Fork CSOs)
		Nightingale PS (CSO 015 or South Fork CSOs)
		Nightingale PS (CSO 015 or South Fork CSOs)
HIRSCH DENTAL CERAMICS HOLY FAMIIY CHILD DEVELOPMENT CENTER		Nightingale PS (CSO 015 or South Fork CSOs)
		Nightingale PS (CSO 015 or South Fork CSOs)
· · · · · · · · · · · · · · · · · · ·		Nightingale PS (CSO 015 or South Fork CSOs) Nightingale PS (CSO 015 or South Fork CSOs)
IM HANNAH'S CLEANERS & SHIRT LAUNDRY		
IM HANNAH'S CLEANERS & SHIRT LAUNDRY O JO'S RESTAURANT	2902 BARDSTOWN RD	Nightingale PS (CSO 015 or South Fork CSOs)
IM HANNAH'S CLEANERS & SHIRT LAUNDRY O JO'S RESTAURANT IFC	2902 BARDSTOWN RD 1441 GARDINER LN	

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KY FRIED CHICKEN	1441 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
	1941 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
	3118 SUNNY LN	Nightingale PS (CSO 015 or South Fork CSOs)
	1100 TREVILIAN WAY	Nightingale PS (CSO 015 or South Fork CSOs)
	2000 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
	1155 EASTERN PKWY	Nightingale PS (CSO 015 or South Fork CSOs)
	3793 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
SAINT JOSEPH HOME FOR THE AGED	15 AUDUBON PLAZA DR	Nightingale PS (CSO 015 or South Fork CSOs)
SHERWIN WILLIAMS CO	1232 GARDINER LN	Nightingale PS (CSO 015 or South Fork CSOs)
	1990 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
	1990 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
	1100 TREVILIAN WAY	Nightingale PS (CSO 015 or South Fork CSOs)
	2510 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
YALE KENTUCKIAN	3201 LEITH LN	Nightingale PS (CSO 015 or South Fork CSOs)
	1440 LINCOLN AVE	Nightingale PS (CSO 015 or South Fork CSOs)
ABATEMENT AND ENVIRONMENTAL SERVICE	1441 HUGH AVE	Nightingale PS (CSO 015 or South Fork CSOs)
ABRAMS ANIMAL HOSPITAL	4210 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
AETNA/U S HEALT	102 SPRING CREEK CT	Nightingale PS (CSO 015 or South Fork CSOs)
ANIMAL EMERGENCY CENTER	3321 RED ROOF INN PL	Nightingale PS (CSO 015 or South Fork CSOs)
APRIA HEALTHCARE	1805 TAYLOR AVE	Nightingale PS (CSO 015 or South Fork CSOs)
	2170 TYLER LN	Nightingale PS (CSO 015 or South Fork CSOs)
	3265 ROBIN RD	Nightingale PS (CSO 015 or South Fork CSOs)
7.000017.00017.11.1	3030 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
	3030 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
CAFE MONTAGU	1930 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
	3926 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
	2020 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2020 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
	2120 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
	2120 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
67.0.07.00	3221 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
	3 AUDUBON PLAZA DR	Nightingale PS (CSO 015 or South Fork CSOs)
	4121 PRESTON HWY	Nightingale PS (CSO 015 or South Fork CSOs)
	4009 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
		Nightingale PS (CSO 015 or South Fork CSOs)
KROGER CO #304	4175 SHERMAN AVE	Nightingale PS (CSO 015 of South Fork CSOs)
KY FRIED CHICKEN	1900 COLONEL SANDERS LN	Nightingale PS (CSO 015 or South Fork CSOs)
KY FRIED CHICKEN	1930 BISHOP LN	
KY FRIED CHICKEN	1961 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
KY FRIED CHICKEN	3003 PIEDMONT DR	Nightingale PS (CSO 015 or South Fork CSOs)
LAB CORP	1900 BASHFORD MANOR LN	Nightingale PS (CSO 015 or South Fork CSOs)
LAB CORP ADMINISTRATIVE OFFICES	4500 CONAEM DR	Nightingale PS (CSO 015 or South Fork CSOs)
LOLITA'S TACOS	4222 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
LOUISVILLE JUNIOR ACADEMY	2988 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
MCDONALDS RESTAURANT	3100 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
MEDICAL ARTS HAIR SALON	1169 EASTERN PKWY	Nightingale PS (CSO 015 or South Fork CSOs)
MEDICAL DENTAL BUSINESS CONSULTANTS		Nightingale PS (CSO 015 or South Fork CSOs)
MEFFERT, JAMES E DMD/DNTST	1169 EASTERN PKWY	Nightingale PS (CSO 015 or South Fork CSOs)
MEYER HERMAN & SON INC FUNRL DIR	1338 ELLISON AVE	Nightingale PS (CSO 015 or South Fork CSOs)
NATIONAL HEALTH LABORATORIES	4500 CONAEM DR	Nightingale PS (CSO 015 or South Fork CSOs)
	1 AUDUBON PLAZA DR	Nightingale PS (CSO 015 or South Fork CSOs)
	1 AUDUBON PLAZA DR	Nightingale PS (CSO 015 or South Fork CSOs)
PAPA JOHN'S PIZ	2121 GLADSTONE AVE	Nightingale PS (CSO 015 or South Fork CSOs)
PARKWAY MEDICAL CENTER	1155 EASTERN PKWY	Nightingale PS (CSO 015 or South Fork CSOs)
PROFESSIONAL BEAUTY SALON	2150 LANCASHIRE AVE	Nightingale PS (CSO 015 or South Fork CSOs)
SPEEDY MART	1900 BASHFORD MANOR LN	Nightingale PS (CSO 015 or South Fork CSOs)
SPEEDY MART	3130 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
SPEEDY MART	3301 NEWBURG RD	Nightingale PS (CSO 015 or South Fork CSOs)
SUBWAY SANDWICH SHOP	4214 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
SUPERAMERICA	4239 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
SUPERAMERICA	4308 BISHOP LN	Nightingale PS (CSO 015 or South Fork CSOs)
WENDYS OLD FASHIONED HAMBURGERS	4029 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
WENDY'S OLD FASHIONED HAMBURGERS	4029 POPLAR LEVEL RD	Nightingale PS (CSO 015 or South Fork CSOs)
ANTHONY RAY'S FOR HAIR BTY SALON	8107 LAGRANGE RD	
AUTOMOTIVE SPECIALTY WAREHOUSE	7673 NATIONAL TPKE	
B LINE FOOD MART NUMBER 2	3507 W BROADWAY	
ID FINE CLAAD INFALL INCOMERS /	3584 SPRINGHURST COMMONS DR	
BUFFALO WILD WINGS GRILL & BAR		
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC	4230 PRESTON HWY	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST	4230 PRESTON HWY 7103 COVERED COVE WAY	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILIE RESTAURANT	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILIE RESTAURANT CAPTAINS QUARTERS RESTAURANT	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD 5700 CAPTAIN QUARTERS RD	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILIE RESTAURANT CAPTAINS QUARTERS RESTAURANT CENTRAL STATE HOSPITAL	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD 5700 CAPTAIN QUARTERS RD 10510 LAGRANGE RD	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILIE RESTAURANT CAPTAINS QUARTERS RESTAURANT CENTRAL STATE HOSPITAL CHEDDAR'S CASUAL CAFE	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD 5700 CAPTAIN QUARTERS RD 10510 LAGRANGE RD 10403 WESTPORT RD	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILE RESTAURANT CAPTAINS QUARTERS RESTAURANT CENTRAL STATE HOSPITAL CHEDDAR'S CASUAL CAFE CHEVRON HOP SHOP	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD 5700 CAPTAIN QUARTERS RD 10510 LAGRANGE RD 10403 WESTPORT RD 3345 FERN VALLEY RD	
BUFFALO WILD WINGS GRILL & BAR BULLITT DENTAL PSC BURTON, E RAMSEY JR DMD/DNTST CAFE' EMILIE RESTAURANT CAPTAINS QUARTERS RESTAURANT CENTRAL STATE HOSPITAL CHEDDAR'S CASUAL CAFE CHEVRON HOP SHOP CLASSIE EXPRESS LUB	4230 PRESTON HWY 7103 COVERED COVE WAY 3939 SHELBYVILLE RD 5700 CAPTAIN QUARTERS RD 10510 LAGRANGE RD 10403 WESTPORT RD	

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CRAZY TRAIN BAR & GRILL	4002 BARDSTOWN RD	
CUTTING BOARD CAFE & CATERING	2905 GOOSE CREEK RD	
DEAN LAVENSON PHOTOGRAPHY	414 BAXTER AVE	
DOUBLE DRAGON BUFFET RESTRNT	233 WHITTINGTON PKWY	
FABRICATED METALS	6334 KENJOY DR	
FAT JIMMY'S	9901 LAGRANGE RD	
FIVE STAR FOOD MART	10306 US HIGHWAY 42	
FREEBIRD CHEMICAL INC	7803 NATIONAL TPKE	
G E APPLIANCE C GE APPLIANCE	6705 REST WAY	
GE COMPANY	201 W MAIN ST	
GE COMPANY	1213 LYNDON LN 555 BRECKENRIDGE LN	
HARDEE'S RESTAURANT	3359 FERN VALLEY RD	7,000
HARDING RESTAUR	2100 STONY BROOK DR	
HARROD'S RESTAURANT	7507 RIVER RD	
HESCO PARTS CORP	10 STATION PARK	
IRISH HILL FOODS	1231 LEXINGTON RD	
J HARROD'S RESTAURANT	7507 RIVER RD	
JARFIS BISTO	501 W MAIN ST	
JARFIS BISTRO	501 W MAIN ST	
JARFIS CATERING AT THE KENTUCKY CEN	TI501 W MAIN ST	
JUICYS SMOKEHOUSE BAR B QUE	7626 LAGRANGE RD	
KINGFISH RESTAURANT	3021 RIVER RD	TOTAL TOTAL
KY FRIED CHICKEN	11109 BROOKSTONE CT	
LA PETITE ACADEMY	9505 US HIGHWAY 42	
LUCAS AUTO REPAIR	2802 7TH STREET RD	
PICNICATERERS BBQ & CATERING	514 W MUHAMMAD ALI BLVD	
QUALITY ALUMINUM PRODUCTS INC	7871 NATIONAL TPKE	
RIVER METALS RECYCLING	2045 RIVER RD	
RIVER METALS RECYCLING LLC	2255 UPPER RIVER RD	
SIMPLICITY SALON	3924 DUPONT SQ S	
SMOKETOWN BBQ AND GRILL SOAP OPERA COIN LAUNDRY	1200 E MAIN ST	
SONIC DRIVE IN	9901 LAGRANGE RD	
SPRINGHURST ANIMAL HOSPITAL	3640 SPRINGHURST BLVD 9909 BROWNSBORO RD	
STANDARD OIL CO INC	4401 BELLS LN	
STAR CHEMICALS CO INC	8002 VINE CREST AVE	
STATEN'S VINCE BBQ	9219 US HIGHWAY 42	
SWIFTY SERVICE STATION	5389 NEW CUT RD	
ACO BELL	10541 FISCHER PARK DR	
EN BROECK HEALTHCARE	8521 LAGRANGE RD	
EN BROECK HOSPITAL	8521 LAGRANGE RD	
HOROUGHBRED DRY CLEANERS	10000 BROWNSBORO RD	
UMBLEWEED SOUTHWEST GRILL	1201 RIVER RD	
UMBLEWEED SOUTHWEST GRILL	3550 SPRINGHURST COMMONS DR	
JNDERWOOD & LEE DENTAL CLINIC	1800 BLUEGRASS AVE	
JNIV OF LOUISVILLE	124 STEVENSON AVE	
JNIVERSAL LINEN SERVICE	1721 S 7TH ST	
ALE PHOTOGRAPHY	9557 US HIGHWAY 42	
& C-TEBCO SHEET METAL	988 SWAN ST	
	6409 DUROC AVE	
BSOLUTELY DELIGHTFUL CATERING CME AUTO ELECTRIC INC	4555 S 4TH ST	
CME AUTO ELECTRIC INC	530 BAXTER AVE	
DVANCED ORTHOPAEDIC PHYSICAL THER	530 BAXTER AVE	
LLIED ALUMINUM PRODUCTS INC	1410 W MARKET ST	
LLIED READY MIX	1561 E WASHINGTON ST	
LL-STAR WASTE DISPOSAL & TRUCKING	7303 NATIONAL TPKE	
LMOST FAMILY	2529 SIX MILE LN	
MERICAN CONCRETE PUMPING	1561 E WASHINGTON ST	
MERICAN CONCRETE PUMPING CENTRAL I	1561 E WASHINGTON ST	
MERICAN FAMILY ORTHODONTICS	10412 SHELBYVILLE RD	
MERICAN FAMILY SHELBYVILLE	10412 SHELBYVILLE RD	
RBYS ROAST BEEF RESTAURANT	3349 FERN VALLEY RD	
RBYS ROAST BEEF RESTAURANT	9905 LAGRANGE RD	
RBY'S ROAST BEEF RESTAURANT	3349 FERN VALLEY RD	
RBY'S ROAST BEEF RESTAURANT	9905 LAGRANGE RD	
RNOLD'S BOATS AND MOTORS INC	2035 RIVER RD	
SHLAND CHEMICAL CO	4185 ALGONQUIN PKWY	
SHLAND INC	3410 WOODSIDE RD	
ANFIELD THE PET HOSPITAL	10314 WESTPORT RD	
APTIST HOSPITA	5 WINIFREDE LN	
AD LIST HUCCENT CADE	10000 BROWNSBORO RD	
APTIST URGENT CARE		
EARNO'S PIZZA BY THE BRIDGE	131 W MAIN ST	
EARNO'S PIZZA BY THE BRIDGE EEFOBRADY'S FAMILY SPORTS PUB	131 W MAIN ST 10000 BROWNSBORO RD 8002 WATTERSON TRL	

<ul> <li>Users Name (Dialogic Coverage)</li> </ul>	Address	Tributary to CSO#
BEN THANH FOOD WAREHOUSE	803 S 12TH ST	
BIG O TIRES JEFFERSON COUNTY STORES		
BIGFOOT FOOD STORES LLC	6517 PRESTON HWY	
BLUEGRASS PRESCHOOL & CHILD CARE CHEVRON USA PRODUCTS COMPANY	9901 LAGRANGE RD 4401 BELLS LN	
DAIRY QUEEN	5516 NATIONAL TPKE	
DAIRY QUEEN	9517 US HIGHWAY 42	
DAIRY QUEEN RESTAURANTS	5516 NATIONAL TPKE	
DOMINOS PIZZA	9551 US HIGHWAY 42	
DOMINO'S PIZZA	9551 US HIGHWAY 42	
G L I FOOD SERVICES	726 W MUHAMMAD ALI BLVD	Market and the second s
GAB BUSINESS SERVICES INC REGIONAL OF	3353 FERN VALLEY RD	
INDI'S FAST FOOD RESTAURANT JIMS RESTAURANT	1500 BERRY BLVD	
JUCYS SMOKEHOUSE BAR B Q	7626 LAGRANGE RD	
KROGER	279 N HUBBARDS LN	
KROGER CO #304	2900 SPRINGDALE RD	
KY FRIED CHICKEN	2504 ANCHOR WAY	All All All All All All All All All All
MARK'S FEED STO	1313 GLENBROOK RD	
MARTINIZING ONE HOUR CLEANERS	2818 CRUMS LN 6051 TIMBER RIDGE DR	
MAX & ERMAS RESTAURANTS MAX & ERMA'S RESTAURANTS	6051 TIMBER RIDGE DR	
MCDONALD'S RESTAURANTS	5905 TIMBER RIDGE DR	- A MANAGEMENT CONTROL OF THE CONTRO
MCDONALD'S RESTAURANTS	9314 WESTPORT RD	
MEADOWS HEALTHCARE SYSTEMS SOUTH	2527 SIX MILE LN	
MEDICAL CENTER	624 S FLOYD ST	
METRO DENTAL GROUP	301 E MAIN ST	
MGM PHOTOGRAPHY	140 N 4TH ST	
MILLER OIL COMPANY INC	4504 BELLS LN 9217 US HIGHWAY 42	
MORTENSON FAMILY DENTAL NU YALE DRY CLEANERS	2311 S PRESTON ST	
NU YALE DRY CLEANERS	2908 BROWNSBORO RD	
NU YALE SANITONE CLEANERS	2311 S PRESTON ST	
NU YALE SANITONE CLEANERS	2908 BROWNSBORO RD	
ONE HOUR MARTINIZING	2818 CRUMS LN	
OPTA FOOD INGRONTS	9207 LAGRANGE RD	
OPTA FOOD INGREDIENTS	1401 LOCUST ST   8113 LAGRANGE RD	
PACIFIC CLEANER  PACIFIC CLEANERS	8113 LAGRANGE RD	
PANDA CHINA CHINESE RESTAURANT	9543 US HIGHWAY 42	
PAPA JOHNS PIZZA	401 E MAIN ST	
PAPA JOHN'S PIZZA	401 E MAIN ST	
PARKLAND DENTAL CENTER	1220 S 28TH ST	
PARKLAND LAUNDRY	1250 CATALPA CT	
PARKRIDGE CARWASH III	9907 LAGRANGE RD 8109 LAGRANGE RD	
PIZZA GUY PIZZA HUT	4933 OLD BROWNSBORO RD	
PIZZA HOT	10000 BROWNSBORO RD	
PORTER PAINTS	945 S 13TH ST	
PREMIER	7007 BRIDGE POINTE BLVD	
PROSPECT ANIMAL CLINIC	9217 US HIGHWAY 42	
PROSPECT DENTAL CARE	6007 TIMBER RIDGE DR PROSPETT	
PROSPECT FISH MARKET & RESTAURANT	9521 US HIGHWAY 42	
QUIZNO'S SUBS	6021 TIMBER RIDGE DR 3825 SHELBYVILLE RD	
RALLY'S RITE AID EXPRESS 1 HOUR PHOTO	3804 BROWNSBORO RD	
SOUPY'S	3019 BRECKENRIDGE LN	
SPEEDY MART	400 MOUNT HOLLY AVE	
SPEEDY MART	4740 CHAMBERLAIN LN	
STARBUCKS COFFEE	5915 TIMBER RIDGE DR	
SUBWAY SANDWICH	5506 TIMBER RIDGE DR	
SUBWAY SANDWICH	7116 WINDHAM PKWY	
SUBWAY SANDWICHES	9207 US HIGHWAY 42 3939 DUTCHMANS LN	
SUBWAY SANDWICHES & SALADS SUBWAY SANWICHES & PARTY SUBS	9901 LAGRANGE RD	
SUPERB CLEANERS	9549 US HIGHWAY 42	
TEN BROECK HOSPITALS	8521 LAGRANGE RD	
TUMBLEWEED SOUTHWEST GRILL	3602 BARDSTOWN RD	
ZEON CHEMICALS, L. P.	4111 BELLS LN	



#### APPENDIX 4C SUMMARY OF MSD LTCP IU-CSO PROJECT

MSD began a project to determine the relationship between permitted non-domestic dischargers to the CSS AND CSOs that predates EPA's Guidance for Nine Minimum Controls. Since the guidance was released, MSD has developed a Geographic Information System (GIS) which can assist in characterization of CSO/SIU relationships and the CSS. Information technology tools that proved beneficial in investigating this NMC include the following:

- Creation of sewer network of the MSD collection system
- Incorporation of upstream and downstream GIS sewer tracing tools
- Creation of GIS polygon data describing CSO areas and sanitary sewer service areas that discharge into the CSS
- Incorporation of stream monitoring, pretreatment and CSO location point cover
- Relational database compatibility using key fields integrated with water quality database information
- Incorporation of surface water coverage

Permitted industries discharging to or upstream of CSOs located in both the Beargrass Creek and Ohio River CSO areas were grouped and sewer traces performed using the GIS. This allows graphical illustration of permitted industries relative to receiving CSOs/streams. Refer to Figures 4C-1 and 4C-2 for a graphical representation of the two CSO areas including the number of non-domestic dischargers (SIUs and GPDs) discharging to each CSO. Refer to Figure 4C-3 for a graphical representation of facilities located within the CSS that have been issued a HMPC spill plan under the HMO. Refer to Figure 4C-4 for a list of the permitted non-domestic dischargers discharging to the Beargrass Creek CSO Area and to Figure 4C-5 for a list of the permitted non-domestic dischargers discharging to the Ohio River CSO Area.

MSD uses a Laboratory Information Management System (LIMS) application called LabWorks Process Scheduler to confirm that locations have been scheduled and sampled. Data collected at permitted industries is being compared to data collected from monitoring locations in MSD sewers, as well as at CSO locations. A decision tree was developed to determine Pollutants of Concern (POC). Refer to Figure 4C-6 for a copy of the POC decision tree and list of assumptions used for the decision tree analysis. Refer to Figure 4C-7 for an example POC matrix and to Figure 4C-8 for the preliminary results of the dry weather analysis for the Beargrass Creek CSO Area.

The POC analysis illustrates worst case water quality effects of pollutants since it was conducted using dry weather sampling data. To date, MSD has conducted several rounds of dry weather sampling within the Beargrass Creek CSO area and the first round within the Ohio River CSO area. The POC analysis based on dry weather sampling has been completed for the Beargrass Creek CSO area. However, DOW has recently completed its triennial review of water quality standards, which has resulted in a revision of some of the standards used in the POC analysis of the Beargrass Creek CSO area. In addition, MSD now has the capability to reach much lower detection limits for lead, selenium and cadmium which will provide a more accurate POC analysis. Therefore, additional dry weather sampling in both CSO areas has been scheduled. This sampling requires at least 7 days of continuous dry weather prior to sampling to yield valid results. After the sampling has been conducted, MSD will reevaluate POCs from permitted facilities discharging to both CSO areas.

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The decision tree methodology presented in Figure 4C-6 is very conservative and the results from this approach need to be further tested against conditions that may exist during an overflow. Conservatism is built into the process by using the wasteload allocation based water quality standards which were computed at 7Q10 flow conditions. Further, the lowest standard (typically chronic criterion) was employed in selecting the lowest possible water quality concentration. Neither of these conditions would exist during a wet weather overflow event. This is not to say that the analysis is not justified. MSD proposes to use this analysis to determine if any waste stream in the CSS is at 100% of the dry weather-based water quality standards. As noted in the decision tree, additional measures would be considered if the dry weather trunk sewer concentrations were at or above the critical dry weather water quality standards. This condition would protect the stream under the most extreme dry weather overflow scenario.

MSD proposes to additionally verify the impacts of an overflow on the environment at the initiation of a CSO event. In this analysis, the acute water quality criteria will be used in the POC analysis. Mathematical modeling will be used to predict the conditions under which an overflow may occur. A reasonable assumption will be made for the background concentration in the upstream flow, based on actual data if possible. The allowable concentration in the outfall will be compared to the trunk sewer concentration at a condition when the CSS is impacted by stormwater, but has not yet overflowed. Actual data will be collected under conservative conditions (pre-overflow, 7-day antecedent dry conditions, weekday, normal working hours sampling). If the concentrations in the CSS under the pre-overflow condition are at 100% of the allowable criteria, the pollutant will be considered a POC and further evaluation will be conducted to identify if the source can be controlled or regulated. MSD has purposely chosen a conservative approach by analyzing trunk sewer samples prior to an overflow event, recognizing that when the CSO actually discharges, the additional stormwater that triggers the discharge will result in more dilution.

While all of the initial analysis is focused on identifying whether any pollutants of concern exist for specific CSO discharges, follow-up investigations for any identified POCs will first consider the currently regulated industrial community. If the currently regulated industrial community is not found to be the source of the POC, MSD will consider logical classes of non-domestic dischargers that may be contributing the POCs.

With the identification of POCs and potential sources, MSD must consider if modifications to the current pretreatment program are feasible or of practical value for CSO control, in accordance with EPA guidance. MSD is interested in developing rational, practical and cost-effective enhancements to the pretreatment program that will have measurable benefit to the environment.

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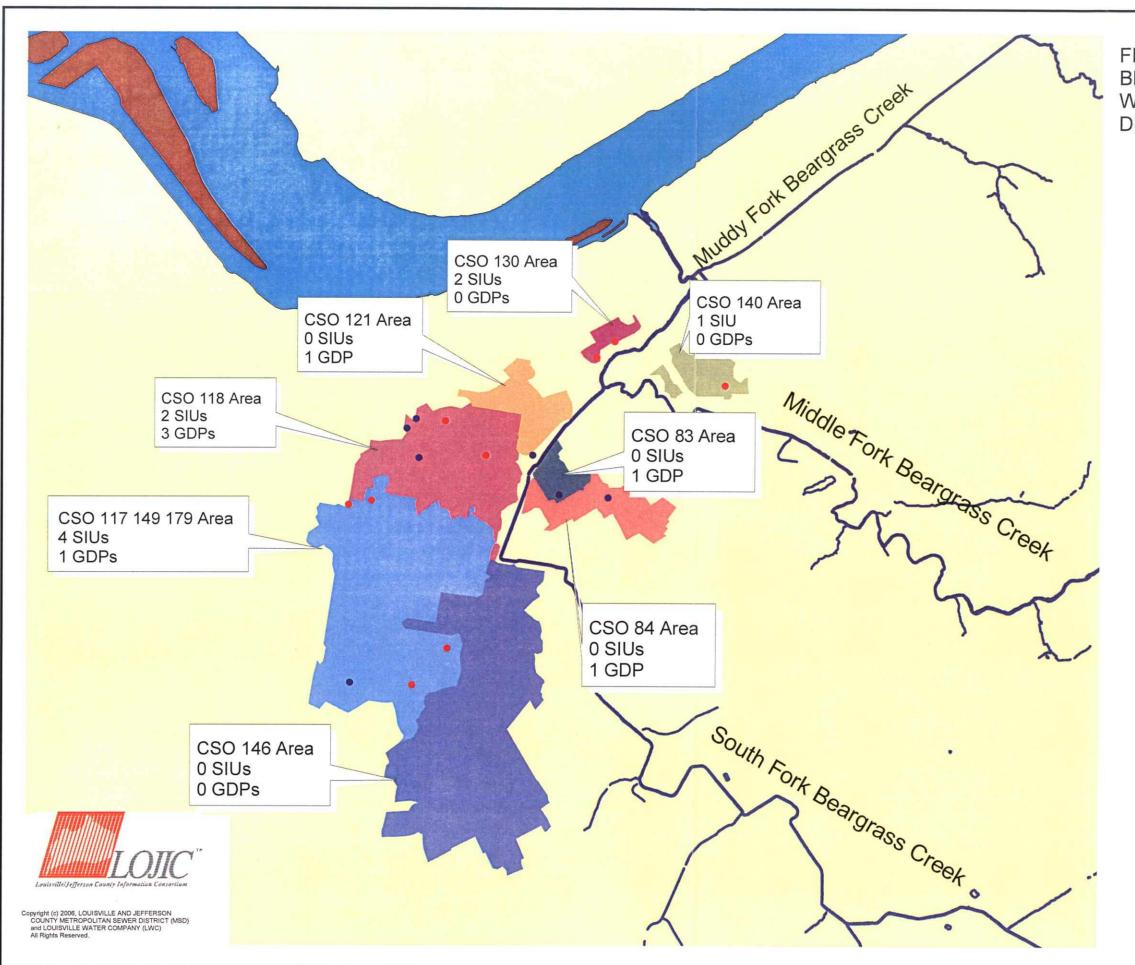


FIGURE 4C-1
BEARGRASS CREEK CSO AREAS
WITH PERMITTED NON-DOMESTIC
DISCHARGERS



- SIU
- GDP

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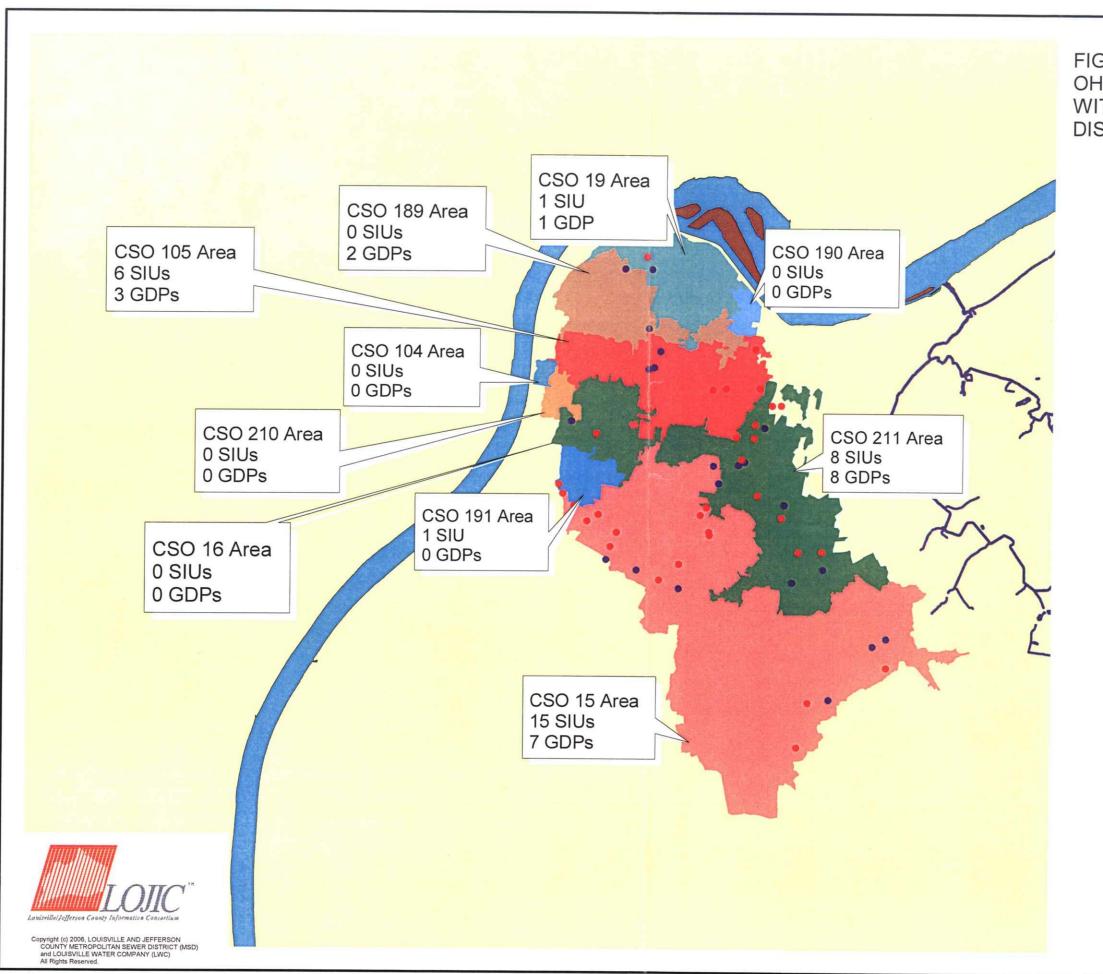


FIGURE 4C-2
OHIO RIVER CSO AREAS
WITH PERMITTED NON-DOMESTIC
DISCHARGERS

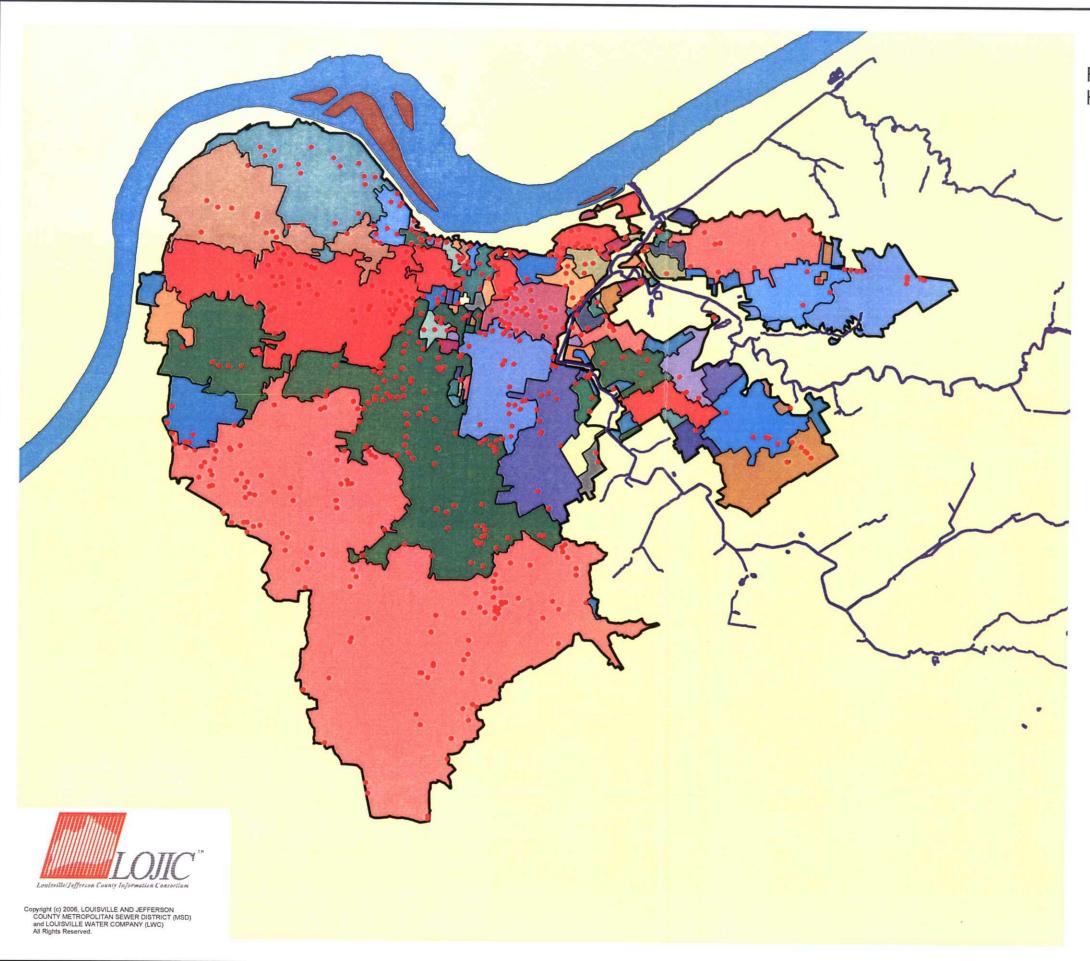


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#### FIGURE 4C-3 HMPC PLANS IN CSO AREAS





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# PERMITTED NON-DOMESTIC DISCHARGERS TO THE BEARGRASS CREEK CSO AREA

Group	Company
Group 1 (CSO 118)	Kosair Children's Hospital
Group 1 (CSO 118)	Multi Metals Division Loc 3
Group 1 (CSO 118)	Norton Alliant Pavilion Loc 1
Group 1 (CSO 118)	Norton Alliant Pavilion Loc 2
Group 1 (CSO 118)	U of L Medical Center Loc 1
Group 1 (CSO 118)	U of L Medical Center Loc 2
Group 1 (CSO 118)	U of L Medical Center Loc 3
Group 1 (CSO 118)	U of L Medical Center Loc 4
Group 1 (CSO 118)	U of L Medical Center Loc 5
Group 1 (CSO 118)	U of L Medical Center Loc 6
Group 2 (CSOs 117 149 179)	Cissell Manufacturing Co (2)
Group 2 (CSOs 117 149 179)	Forth Technologies Bergman
Group 2 (CSOs 117 149 179)	Puritan Cleaners Inc
Group 2 (CSOs 117 149 179)	The Barbee Co., Inc.
Group 3 (CSO 130)*	Medical Center Laundry
Group 3 (CSO 130)*	Swift & Company Loc 2
Group 4 (Middle Fork SSO)	Baptist Healthcare System East
Group 4 (Middle Fork SSO)	Norton Healthcare Suburban
Group 4 (Middle Fork SSO)	NSS Environmental Inc. Loc 1
Group 5 (South Fork SSO)	Inland Paperboard Old Shep
Group 5 (South Fork SSO)	Ivy Hill Corporation
Group 5 (South Fork SSO)	Weyerhaeuser Company
Group 6 (CSO 140)	D D Williamson & Company
Group 8 (CSO 121)	Kent Feeds Inc
Group 9 (CSO 083)	Kindred Hospital Loc 1
Group 9 (CSO 083)	Kindred Hospital Loc 2
Group 11 (CSO 084)**	National Products Inc (no permit needed)

<sup>\*</sup>Group 3 not sampled due to inaccessibility (depth and no way to measure flows) of location which made it too dangerous to personnel to sample.

<sup>\*\*</sup> Groups 7 and 11 did not have permitted industries so were not sampled

# PERMITTED NON-DOMESTIC DISCHARGERS TO THE OHIO RIVER CSO AREA

Group	Company
Group 1 (CSO 190)	Aero Products Packaging LLC
Group 1 (CSO 190)	Industrial Power Service Co
Group 2 (CSO 19)	Engelhard Corp Harshaw Chem
Group 2 (CSO 19)	Norfolk Southern Railway Co
Group 3 (CSO 189)	Engelhard Corp Harshaw Chem
Group 3 (CSO 189)	National Tobacco Company
Group 3 (CSO 189)	Norfolk Southern Railway Co
Group 4 (CSO 105)	Applied Surface Technology Inc
Group 4 (CSO 105)	Brown-Forman Lou Prod Loc 1
Group 4 (CSO 105)	Brown-Forman Lou Prod Loc 2
Group 4 (CSO 105)	Brown-Forman Lou Prod Loc 3
Group 4 (CSO 105)	G & K Services Inc. 1200 Maple
Group 4 (CSO 105)	Greyhound Lines Inc
Group 4 (CSO 105)	Heaven Hill Bernheim Distilery
Group 4 (CSO 105)	Jewish Hospital Loc 3
Group 4 (CSO 105)	Louisville Tin and Stove
Group 4 (CSO 105)	National Linen East Plant Loc1
Group 4 (CSO 105)	National Linen West Plant
Group 4 (CSO 105)	PPG Porter Paints Plant1 Loc 1
Group 4 (CSO 105)	PPG Porter Paints Plant1 Loc 2
Group 4 (CSO 105)	PPG Porter Paints Plant1 Loc 3
Group 4 (CSO 105)	PPG Porter Paints Plant2 Loc 2
Group 4 (CSO 105)	Republic Industries Inc
Group 4 (CSO 105)	Sypris Technologies Loc 1
Group 4 (CSO 105)	Sypris Technologies Loc 2
Group 4 (CSO 105)	Sypris Technologies Loc 3
Group 4 (CSO 105)	Sypris Technologies Loc 5
Group 4 (CSO 105)	Tower Scholl Awards Inc
Group 6 (CSO 16)	Applied Surface Technology Inc
Group 6 (CSO 16)	Brown-Forman Lou Prod Loc 1
Group 6 (CSO 16)	Brown-Forman Lou Prod Loc 2
Group 6 (CSO 16)	Brown-Forman Lou Prod Loc 3
Group 6 (CSO 16)	Engelhard Corp Harshaw Chem
Group 6 (CSO 16)	Heaven Hill Bernheim Distilery
Group 6 (CSO 16)	Industrial Power Service Co
Group 6 (CSO 16)	Jewish Hospital Loc 3
Group 6 (CSO 16)	Louisville Tin and Stove
Group 6 (CSO 16)	National Linen East Plant Loc1
Group 6 (CSO 16)	National Linen West Plant
Group 6 (CSO 16)	National Tobacco Company
Group 6 (CSO 16)	Norfolk Southern Railway Co
Group 6 (CSO 16)	PPG Porter Paints Plant1 Loc 1
Group 6 (CSO 16)	PPG Porter Paints Plant2 Loc 2
Group 6 (CSO 16)	Sypris Technologies Loc 1
Group 6 (CSO 16)	Sypris Technologies Loc 2
Group 6 (CSO 16)	Sypris Technologies Loc 3
Group 9 (CSO 15)	Advanced Filtration Tech

# PERMITTED NON-DOMESTIC DISCHARGERS TO THE OHIO RIVER CSO AREA

UNIU RIVER COU AREA	$q_{2} = \frac{1}{2} \frac{1}$
Group 9 (CSO 15)	Affordable Waste Mgmt Loc 2
Group 9 (CSO 15)	Akzo Nobel Resins Loc 1
Group 9 (CSO 15)	Akzo Nobel Resins Loc 3
Group 9 (CSO 15)	Allwaste Container Services
Group 9 (CSO 15)	AST Acme Loc 1
Group 9 (CSO 15)	BAE Systems Loc 4
Group 9 (CSO 15)	BAE Systems Loc 4
Group 9 (CSO 15)	Baptist Healthcare System East
Group 9 (CSO 15)	Bashford Manor Corporation
Group 9 (CSO 15)	Beneke Specialty Aluminum Loc1
Group 9 (CSO 15)	Beneke Specialty Aluminum Loc2
Group 9 (CSO 15)	Bio Additives LLC Loc 1
Group 9 (CSO 15)	Bio Additives LLC Loc 3
Group 9 (CSO 15)	Bluegrass Cooperage Co Loc 1
Group 9 (CSO 15)	Bluegrass Cooperage Co Loc 2
Group 9 (CSO 15)	Box USA Group Inc
Group 9 (CSO 15)	BP Products North America
Group 9 (CSO 15)	Brown-Forman Early Times Loc 1
Group 9 (CSO 15)	Brown-Forman Early Times Loc 2
Group 9 (CSO 15)	Caritas Peace Center
Group 9 (CSO 15)	Chi-Chi Restaurant Bashford
Group 9 (CSO 15)	Coca Cola Enterprises Loc 1
Group 9 (CSO 15)	Corhart Refractories Loc 1
Group 9 (CSO 15)	Corhart Refractories Loc 4
Group 9 (CSO 15)	Dant Clayton Loc 1
Group 9 (CSO 15)	Dant Clayton Loc 2
Group 9 (CSO 15)	Dawn Food Products Loc 1
Group 9 (CSO 15)	Dawn Food Products Loc 2
Group 9 (CSO 15)	Dawn Food Products Loc 3
Group 9 (CSO 15)	Dean Milk
Group 9 (CSO 15)	Executive Inn Hotel East Loc 1
Group 9 (CSO 15)	Executive Inn Hotel East Loc 2
Group 9 (CSO 15)	Executive West Hotel
Group 9 (CSO 15)	Fabricated Metals Corp Loc 1
Group 9 (CSO 15)	Fabricated Metals Corp Loc 2
Group 9 (CSO 15)	Fabricated Metals Utility
Group 9 (CSO 15)	FBO AvCenter
Group 9 (CSO 15)	Federal Express Loc 1
Group 9 (CSO 15)	Federal Express Loc 2
Group 9 (CSO 15)	Florida Distillers Company
Group 9 (CSO 15)	Focus Too Packaging
Group 9 (CSO 15)	Ford Motor-Assembly Plnt Loc 1
Group 9 (CSO 15)	Ford Motor-Assembly Pint Loc 2
Samura and the samura	Ford Motor-Assembly Pint Loc 3
Group 9 (CSO 15) Group 9 (CSO 15)	Gateway Press Inc
Company of the compan	Golden Foods Loc 1
Group 9 (CSO 15)	Golden Foods Loc 1
Group 9 (CSO 15)	Golden Foods Loc 2 Golden Foods Loc 3
Group 9 (CSO 15)	
Group 9 (CSO 15)	Golden Foods Los 5
Group 9 (CSO 15)	Golden Foods Loc 5

# PERMITTED NON-DOMESTIC DISCHARGERS TO THE OHIO RIVER CSO AREA

OHIO RIVER CSO AREA	
Group 9 (CSO 15)	Golden Foods Loc 6
Group 9 (CSO 15)	Ivy Hill Corporation
Group 9 (CSO 15)	Kelly Fabricators
Group 9 (CSO 15)	Kentuckiana Tank Wash Inc Loc1
Group 9 (CSO 15)	Kentuckiana Tank Wash Inc Loc2
Group 9 (CSO 15)	Kentucky Fair & Expo Center
Group 9 (CSO 15)	KY Air National Guard Loc 1
Group 9 (CSO 15)	KY Air National Guard Loc 2
Group 9 (CSO 15)	LG&E Co Auburndale Serv Center
Group 9 (CSO 15)	Lou. Zoological Garden Loc 1
Group 9 (CSO 15)	Lou. Zoological Garden Loc 2
Group 9 (CSO 15)	Lou. Zoological Garden Loc 3
Group 9 (CSO 15)	Lou. Zoological Garden Loc 4
Group 9 (CSO 15)	Lou. Zoological Garden Loc 5
Group 9 (CSO 15)	Lou. Zoological Garden Loc 6
Group 9 (CSO 15)	Lou. Zoological Garden Loc 7
Group 9 (CSO 15)	Lou. Zoological Garden Loc10
Group 9 (CSO 15)	Lou. Zoological Garden Loc11
Group 9 (CSO 15)	Lou. Zoological Garden Loc12
Group 9 (CSO 15)	Lou. Zoological Garden Loc13
Group 9 (CSO 15)	Louisville Ladder Corp Loc 1
Group 9 (CSO 15)	Louisville Ladder Corp Loc 2
Group 9 (CSO 15)	Mothers Cookie Company
Group 9 (CSO 15)	Norton Healthcare Suburban
Group 9 (CSO 15)	NSS Environmental Inc. Loc 1
Group 9 (CSO 15)	Paradise Tomato Kitchens
Group 9 (CSO 15)	Precision Elamex Allmond Plant
Group 9 (CSO 15)	RAA Lou Internatni Airport (1)
Group 9 (CSO 15)	RAA Lou Internatni Airport (2)
Group 9 (CSO 15)	RAA Lou Internatni Airport (4)
Group 9 (CSO 15)	RC-Canada Dry Bottling Co
Group 9 (CSO 15)	Reynolds Metals Plant 15 Loc 1
Group 9 (CSO 15)	Reynolds Metals Plant 15 Loc 2
Group 9 (CSO 15)	Stauble Machine & Tool Co
Group 9 (CSO 15)	Stone Container Corporation
Group 9 (CSO 15)	Strong Hold Products
Group 9 (CSO 15)	Sud-Chemie South Plant Loc 1
Group 9 (CSO 15)	Sud-Chemie South Plant Loc 2
Group 9 (CSO 15)	The Burruss Co Gamble Brothers
Group 9 (CSO 15)	United Parcel Service Loc 1
Group 9 (CSO 15)	United Parcel Service Loc 2
Group 9 (CSO 15)	United Parcel Service Loc 4
Group 9 (CSO 15)	United Parcel Service Loc 5
Group 9 (CSO 15)	United States Postal Service
Group 9 (CSO 15)	US Liquids Parallel Prod Loc 1
Group 9 (CSO 15)	US Liquids Parallel Prod Loc 2
Group 9 (CSO 15)	WireCrafters Inc
Group 9 (CSO 15)	Wynn Starr Foods of Ky Loc 2
Group 10 (CSO 211)	Allied Drum Service Inc
Group 10 (CSO 211)	Bigfoot #75 - Johnson Oil Co
CIOUP IO (OOO ZII)	

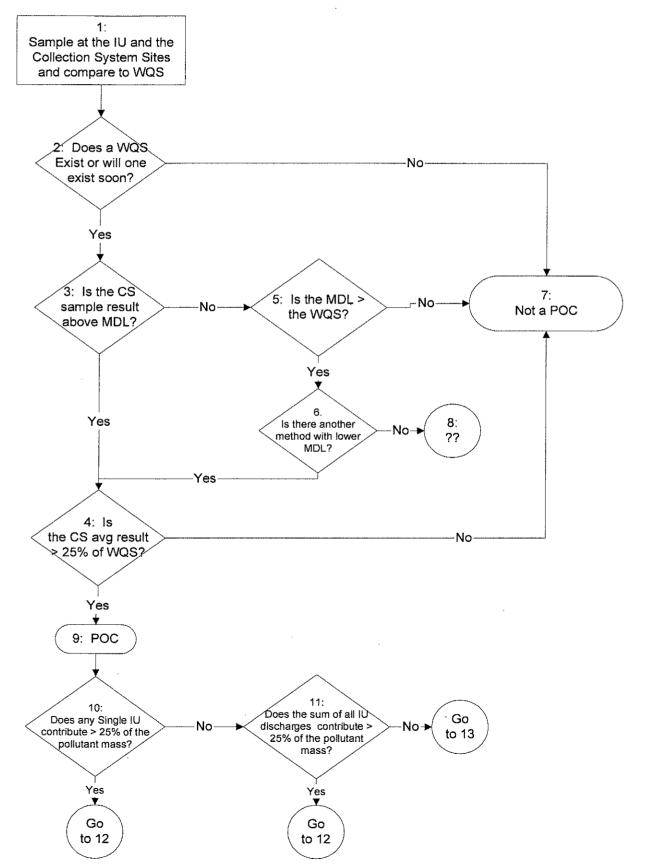
# PERMITTED NON-DOMESTIC DISCHARGERS TO THE OHIO RIVER CSO AREA

Group 10 (CSO 211)	ONIO RIVER GOO AREA	
Group 10 (CSO 211)	Group 10 (CSO 211)	Brown-Forman Lou Prod Loc 1
Group 10 (CSO 211)	Group 10 (CSO 211)	Brown-Forman Lou Prod Loc 2
Group 10 (CSO 211)	Group 10 (CSO 211)	Brown-Forman Lou Prod Loc 3
Group 10 (CSO 211)	Group 10 (CSO 211)	Casa de Oro Foods Loc 2
Group 10 (CSO 211)         Central Station, LLC Loc 2           Group 10 (CSO 211)         Chevron USA Dist Center           Group 10 (CSO 211)         Earthgrains Company Loc 1           Group 10 (CSO 211)         Fourth Ave. Corp.           Group 10 (CSO 211)         Grubb & Ellis Mgmt Serv           Group 10 (CSO 211)         Heaven Hill Bernheim Distilery           Group 10 (CSO 211)         Heaven Hill Bernheim Distilery           Group 10 (CSO 211)         Hesco Parts Corporation           Group 10 (CSO 211)         Jewish Hospital Loc 1           Group 10 (CSO 211)         Jewish Hospital Loc 2           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 4           Group 10 (CSO 211)         Kentucky Fair & Expo Center           Group 10 (CSO 211)         Kentucky Trailer Loc 1           Group 10 (CSO 211)         Kentucky Trailer Loc 2           Group 10 (CSO 211)         Kentucky Trailer Loc 3           Group 10 (CSO 211)         Kentucky Trailer Loc 4           Group 10 (CSO 211)         National Linen East Plant Loc1           Group 10 (CSO 211)         National Linen East Plant Loc 1           Group 10 (CSO 211)         National Linen East Plant Loc 2	Group 10 (CSO 211)	Casa de Oro Foods Loc 3
Group 10 (CSO 211)         Central Station, LLC Loc 2           Group 10 (CSO 211)         Chevron USA Dist Center           Group 10 (CSO 211)         Earthgrains Company Loc 1           Group 10 (CSO 211)         Fourth Ave. Corp.           Group 10 (CSO 211)         Grubb & Ellis Mgmt Serv           Group 10 (CSO 211)         Heaven Hill Bernheim Distilery           Group 10 (CSO 211)         Heaven Hill Bernheim Distilery           Group 10 (CSO 211)         Hesco Parts Corporation           Group 10 (CSO 211)         Jewish Hospital Loc 1           Group 10 (CSO 211)         Jewish Hospital Loc 2           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 4           Group 10 (CSO 211)         Kentucky Fair & Expo Center           Group 10 (CSO 211)         Kentucky Trailer Loc 1           Group 10 (CSO 211)         Kentucky Trailer Loc 2           Group 10 (CSO 211)         Kentucky Trailer Loc 3           Group 10 (CSO 211)         Kentucky Trailer Loc 4           Group 10 (CSO 211)         National Linen East Plant Loc1           Group 10 (CSO 211)         National Linen East Plant Loc 1           Group 10 (CSO 211)         National Linen East Plant Loc 2	Group 10 (CSO 211)	Central Station, LLC Loc 1
Group 10 (CSO 211)		Succession and the succession of the succession
Group 10 (CSO 211)	Server and the server	
Group 10 (CSO 211)   Fourth Ave. Corp.	Service control of th	
Group 10 (CSO 211)   Greyhound Lines Inc		
Group 10 (CSO 211)         Grubb & Ellis Mgmt Serv           Group 10 (CSO 211)         Heaven Hill Bernheim Distilery           Group 10 (CSO 211)         Hesco Parts Corporation           Group 10 (CSO 211)         Jewish Hospital Loc 1           Group 10 (CSO 211)         Jewish Hospital Loc 2           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Kentucky Fair & Expo Center           Group 10 (CSO 211)         Kentucky Trailer Loc 1           Group 10 (CSO 211)         Kentucky Trailer Loc 2           Group 10 (CSO 211)         Kentucky Trailer Loc 2           Group 10 (CSO 211)         Kentucky Trailer Loc 3           Group 10 (CSO 211)         Kentucky Trailer Loc 4           Group 10 (CSO 211)         National Linen East Plant Loc1           Group 10 (CSO 211)         National Linen East Plant Loc2           Group 10 (CSO 211)         National Linen East Plant Loc2           Group 10 (CSO 211)         National Tobacco Company           Group 10 (CSO 211)         New World Pasta Co Lou. Loc 1           Group 10 (CSO 211)         New World Pasta Co Lou. Loc 2           Group 10 (CSO 211)         Norton Hospital Loc 1           Group 10 (CSO 211)         Norton Hospital Loc 2		
Group 10 (CSO 211)		
Group 10 (CSO 211)         Hesco Parts Corporation           Group 10 (CSO 211)         Industrial Power Service Co           Group 10 (CSO 211)         Jewish Hospital Loc 1           Group 10 (CSO 211)         Jewish Hospital Loc 3           Group 10 (CSO 211)         Jewish Hospital Loc 4           Group 10 (CSO 211)         Kentucky Fair & Expo Center           Group 10 (CSO 211)         Kentucky Trailer Loc 1           Group 10 (CSO 211)         Kentucky Trailer Loc 2           Group 10 (CSO 211)         Kentucky Trailer Loc 3           Group 10 (CSO 211)         Kentucky Trailer Loc 3           Group 10 (CSO 211)         Kentucky Trailer Loc 4           Group 10 (CSO 211)         National Linen East Plant Loc1           Group 10 (CSO 211)         National Linen East Plant Loc2           Group 10 (CSO 211)         National Linen West Plant           Group 10 (CSO 211)         National Tobacco Company           Group 10 (CSO 211)         New World Pasta Co Lou. Loc 1           Group 10 (CSO 211)         New World Pasta Co Lou. Loc 2           Group 10 (CSO 211)         Norfolk Southern Railway Co           Group 10 (CSO 211)         Norfolk Southern Railway Co           Group 10 (CSO 211)         Norton Hospital Loc 2           Group 10 (CSO 211)         PPG Porter Paints Plant2 Loc 1		
Industrial Power Service Co   Group 10 (CSO 211)   Jewish Hospital Loc 1		
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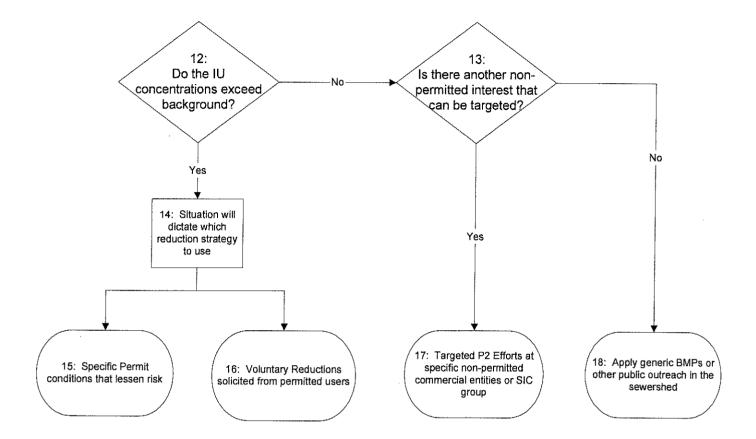
# PERMITTED NON-DOMESTIC DISCHARGERS TO THE OHIO RIVER CSO AREA

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U of L Belknap Campus Loc 6
U of L Belknap Campus Loc 8
U of L Belknap Campus Loc 9
U of L H.S.C. Loc 4
Universal Linen Service
Universal Uniforms Inc Loc 3
Universal Uniforms Loc 4
UofL HealthScienceCampus Loc 8
Whayne Supply Company Loc 1
Whayne Supply Company Loc 2
Whayne Supply Company Loc 3

# Industrial Impacts to Sewer Overflows: Flowchart for determining Pollutant of Concern



# Industrial Impacts to Sewer Overflows: Flowchart for determining Pollutant of Concern



#### List of Assumptions for CSO/SIU project

- 1. When the project began in 2002, we were mostly focused on the Beargrass system. The CSO areas are small enough to do a simultaneous sampling of the collection system and the industries. In 2005, we expanded our scope to include the Ohio River CSOs, many of which have catchment areas much too large to do a simultaneous sampling event. We decided to do more of a "paper exercise" of doing dry weather sampling of the CSS and comparing the data to historical data from the potential industrial sources.
- 2. In 2002, there was a set of water quality standards for several pollutants. In 2005, Daymond Talley recognized that some of the water quality standards had changed, and he updated them. Changes based on Division of Water 2004 Triennial Review of Water Quality Standards.
- 3. Self explanatory
- 4. Is the CSS average result >70% of the WQS (70% = Reasonable Potential)? To determine whether a POTW discharge has a reasonable potential to cause or contribute to an instream excursion above a numeric water quality criteria for a pollutant of concern, the Division of Water performs a Waste Load Allocation (WLA) to determine a threshold concentration for a pollutant of concern. When comparison of the POTW discharge data against the WLA reveals that a pollutant is present in the range of 70% 90% of the WLA for a POC, then monthly monitor & report requirement will be imposed for a one (1) year period.
- 5. Is the MDL > WQS? At times, the MDL of the sample is not low enough to determine if the water quality Standards have been met.
- 6. On some metals methods, our most common way of analyzing pollutants has too high a detection limit to determine compliance, but another method may be available. For example, the detection limit for cadmium using the ICP method is 0.007 mg/l. The detection limit for cadmium using the Graphite Furnace method is 0.0002 mg/l.
- 7. If a pollutant satisfies the answer No to questions 2, 4, 5, or 6 then it is not a pollutant of concern.
- 8. It is possible that there would not be an analytical method low enough to determine if a pollutant is in compliance with a water quality standard. If this is the case, the parameter cannot be considered a POC until science catches up.
- 9. If the answer is yes to question 4, it is a Pollutant of Concern (POC). All POCs must be studied to determine if there is something the Pretreatment Program and/or the CSO program could do to reduce this pollutant or prevent it from getting to surface water.
- 10. If a POC has a major percentage of its mass coming from a particular industrial source, it might lead to a specific reduction strategy with one industry. The number 25% is arbitrary but conservative.
- 11. If there is not one source that is a major percentage on its own, but the sum of all permitted industrial sources is significant, then it might lead to a specific reduction strategy with a group of industries.
- 12. If an industrial source accounts for a large percentage of the mass of a particular pollutant, first it must be determined if the concentration of that pollutant is something that the industry is adding to the waste stream. The incoming city water has low concentrations of several pollutants. MSD conducted a tap water sampling project with students from J-Town high school in February, 2005. Samples were collected, by the

- students... and used as residential collection system background data for copper and lead. If an IU data exceeds background concentrations, a control mechanism is appropriate.
- 13. If IU is not a contributor of the Pollutant of Concern then IWD will look at other options (Dialogic Business) to determine other potential non-domestic sources that can be studied as contributors to the Pollutant of Concern.
- 14. Reduction strategy based on outcome of IU sample results from facility incoming city water concentrations vs residential background concentrations.

#### BEARGRASS CREEK POC DETERMINATION

Industrial Impacts to Sewer Overflows: Flowchart for determining Pollutant of Concern GROUP 1 CSO 118

Analyte	Q2	Q3	Q4	Q5	Q6	POC	Box 8	Q10	Q11
Aluminum	N					N			
Ammonia	N					N			
Antimony	Υ	Υ	N	N		N			
Arsenic	Υ	N		N		N			
Barium	N					N			
Beryllium	N					N			
BOD5	N					N			
Cadmium	Υ	Υ	Υ			Υ		Υ	Y
Calcium	N					N			
COD -	N					N			
Chloride	Υ	Υ	N			N			
Chromium	Υ	Υ	N			N			
Cobalt	N					N			
Fecal Colifrm	N					N			
Copper	Υ	Υ	Υ			Υ		N	N
рН	Υ	Υ	N			N			
Iron	Υ	Υ	Y			Υ		N	N
Lead	Υ	Υ	Υ			Υ		N	N
Magnesium	N					N			
Manganese	N					N			
Mercury	Υ	Υ	Υ			Υ		N	N
Molybdenum	N					N			
Nickel	Υ	Υ	N			N			
Nitrate	N					N			
Nitrite	N					N			
Ortho Phosphorous	N					N			
Potassium	N					N			
Selenium	Υ	Υ	Υ			Υ		N	Z
Silver	Υ	Υ	Υ			Υ		N	N
Sodium .	N					N			
Temperature	N					N			
Thallium	Υ	Υ	N			N			
Titanium	N					N			
Total Hardness	N					N			
Total Phosphorous	N					N			
TSS	N					N			
Vanadium	N					N			
Zinc	Y	Υ	N.			N			

# Beargrass Creek IU - CSO Project Pollutants of Concern (POC) Preliminary Dry Weather Results

POC based on CS Avg Result  Groups > 70% WQS	POC based on Single IU > 50%* of Pollutant Mass	POC based on Sum of All IUs > 50%* of Pollutant Mass	IUs Contributing to POC	Comments
Cadmium, Copper, Iron, Lead, Group 1 Mercury, Selenium, Silver	N/A	N/A	No IU impacting POC	Comments
Cadmium, Lead, Copper, Iron, Group 2 Mercury	Copper, Iron, Mercury	Copper, Iron, Mercury	Forth Technologies Puritan Cleaners	mercury & Iron are not permit requirement
Cadmium, Copper, Lead, Group 4 Selenium	N/A	N/A	No IU's impacting POC	
Cadmium, Copper, Iron, Lead, <b>Group 5</b> Mercury	Copper	Copper	Inland Paperboard & Packing, Ivy Hill, Corp, Willamette Industries, Inc.	IU are printed paper and corrugated material producers. Inland out of business in 2005, Ivy Hill and Willamette are GDP
Cadmium, Copper, Iron, Lead, Group 6 Mercury	Iron, Mercury	N/A	No IU's impacting POC	
Cadmium, Copper, Lead, <b>Group 8</b> Mercury, Selenium	Cadmium, Copper, Mercury, Selenium	N/A	Kent Foods	Livestock & animal feed probably not a true contributor of POCs
Cadmium, Copper, Lead, <b>Group 9</b> Mercury	N/A	N/A	No IU's impacting POC	

## Results based on data taken in 2003 from dry weather sampling Recommendations

For Cadmium, Lead, Mercury, Selenium need to use a lower minium detection limit
Regarding Copper need to also consider Lou Water Company as a significant contributor
In 3rd or 4th Qtr 2006 need to do another round of Dry weather sampling since Division of Water changed WQS in 2004.
In 3rd or 4th Qtr 2006 may want to collect at least one wet weather sample for Beargrass Creek CSO's

\* Being recalculated based on 50%



November 22, 2004

Leanne Monsour General Electric Consumer Products Appliance Park 4000 Buechel Bank Rd Louisville, KY 40225

Wet Weather Pollution Prevention Survey for SIU Permit #2850

Dear Ms Monsour:

MSD is responsible for ensuring that the stormwater that flows into our local streams during and after a rainstorm remains unpolluted by materials washing off from commercial and industrial sites such as your facility. MSD is also required to minimize the impacts of Combined Sewer Overflows (CSOs) on our local streams. One step MSD is taking to do this is to encourage commercial and industrial facilities to incorporate Pollution Prevention (P2) into their operational routines and to reduce water use and wastewater discharges during wet weather.

P2 may be defined as any activity that reduces the generation of contaminants or waste so that the need for disposal or discharge is also reduced. Source reduction and waste minimization through materials substitution, better housekeeping, more efficient use of raw materials, and the practice of reuse or recycling of raw materials, byproducts or wastes are all considered to be methods for pollution prevention. Water conservation and wet weather discharge reduction are also important aspects of P2 for combined sewer systems. Combined sewer capacity can be used to store combined sewage and contaminated stormwater during rainstorms so that the wastewater can be treated later.

As our first step in developing a Wet Weather Pollution Prevention program for commercial and industrial sites, we need the information on the enclosed survey submitted by all Significant Industrial Users.

If you have any questions or comments regarding MSD's development of a local wet weather pollution prevention program please contact Sue Green at 502-540-6955 or by email at green@msdlouky.org. Please submit the completed survey to Ms. Green using the enclosed envelope by November 22, 2004.

Thank you for your cooperation.

Lion a. Daw

Sincerely,

Lisa A. Gaus

Permit and Compliance Supervisor

LAG/shg

C:\WINDOWS\TEMP\stormwaterP2 for SIU sites survey.doc

cc;

KDOW

IWIS/Permit File #2850



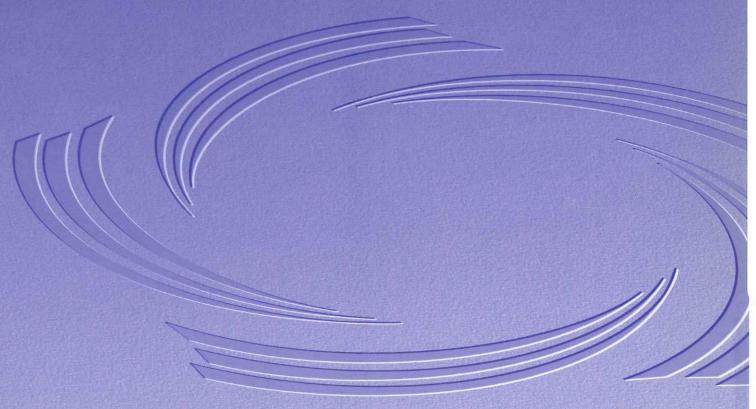
## WET WEATHER POLLUTION PREVENTION SURVEY

Permit #2850

		ric Consumer Products Appliance Park
	Buecner sville, K	l Bank Rd Y 40225
Com	pleted by	, Sandra A. Kyn (print name) Title Leader - EHS Date 12/17/04
	•	the following information is true and correct to the best of my knowledge.
Sign	ed 🛌	3. MA. Are
Pleas	se Circle	your response:
Y	$(\widehat{N})$	Does your facility discharge non-contact cooling water to the sewer?
	_	If yes, how many gallons per day (gpd) on average?
Y	(N)	Does your facility discharge "batches" of process wastewater to the sewer?
		If yes, how many gallons per batch and batches per week do you discharge?
		gallons per batch times per week
Y	(N)	Is your facility capable of storing process wastewater generated during wet weather? (defined here
,		as any day with .5" or more of rain or snowmelt within 24 hours)
		If yes, how much storage in gallons is available and how many days can you hold wastewater
$\sqrt{\mathbf{v}}$	N	before needing to discharge it? gal for days.  Do you have a "KPDES" permit from the Kentucky Division of Water for discharge of
Y	1N	stormwater runoff through a pipe or ditch into a stream?
		If yes, provide the KPDES permit number: KYCO47726 and please submit a
		copy of all your DMRs from the past year with this form.
Y	(N)	Does your permit also include discharge of process or sanitary wastewater? KPDES
$\widehat{\mathbf{Y}}$	N	Does your facility have a Stormwater Pollution Prevention Plan (SWPPP)?
$\bigcirc$	N	Has your facility implemented Stormwater Best Management Practices (BMP)?
		If yes, please indicate which of the following you use:
		Stormwater treatment unit(s) (brand name if known)
		Loading dock storm drain isolation during loading and unloading
		Modified practices and procedures to prevent spillage from entering storm drains
		Buffer zones &/or vegetative filter strips around storm drains
		Other:
$\nabla$	N	The SWPPP in Section 5 contains BMP's for the facility Would you attend a local training seminar on Stormwater Pollution Prevention?
Y Y	Ñ	Do you think that the Hazardous Materials spill plan (HMPC) application should be changed to
•		include local requirements for stormwater pollution prevention?
Pleas	se provid	le additional ideas and suggestions you have to help us at MSD meet our requirements to ensure that
		mwater protection is in place at our local commercial and industrial sites:

(continue on reverse or add sheets if needed)







#### SECTION 5: NMC 4 - MAXIMIZATION OF FLOW TO THE POTW FOR TREATMENT

#### **5.1 INTRODUCTION**

The purpose of this control is to maximize flow to the treatment plant by making simple modifications to the CSS and treatment plant to enable as much wet weather flow as possible to reach the treatment plant. Maximizing flow to the treatment plant minimizes the magnitude, frequency, and duration of CSOs that flow untreated into either Beargrass Creek or the Ohio River.

#### **5.2 PROGRAM OVERVIEW**

MSD has implemented numerous projects at the Morris Forman Wastewater Treatment Plant (MFWTP), and within the CSS, to maximize flow to the plant, as well as to enhance the plant's ability to treat increased wet weather flows. These projects were implemented as part of the LTCP; however, the initiation of these efforts began as NMC evaluations. Between the years of 1997 and 2004, over \$165 million in capital improvements were made at the MFWTP alone. As mentioned in Section 3 (NMC 2), control measures such as modifications to CSO dams and weirs, protection of the conveyance system and treatment plant capacity from creek inundation, reduction of inflows to the CSS, and installation of real time control (RTC) technology can also be applied to implementation of this NMC, because the maximization of storage in the collection system enhances storage and delivery of additional wet weather flows to the treatment plant.

#### 5.3 SYSTEM CHARACTERIZATION

In the CSS, flows during dry weather conditions are conveyed to the MFWTP to remove pollutants before discharging to the Ohio River. During wet weather conditions, when capacity of the CSS is exceeded, the excess flow – a mixture of sewage and stormwater runoff – is discharged to the South Fork Beargrass Creek, Middle Fork Beargrass Creek, and the Ohio River through permitted CSOs.

Characterization of the collection system shows that the CSS includes nearly 60 miles of interceptor pipe that is 5-foot or larger in diameter (refer to Figure 3-1 in Section 3 (NMC 2) for a tabular presentation of this data and Figure 3-2 for a graphic showing these large conveyance pipes). This same network that provides for additional storage within the collection system also provides the flexibility necessary to maximize flows to the MFWTP.

The critical pumping facilities within the CSS can be characterized into three categories:

- · Flood pumping stations
- · Combined sewer pump stations
- · Combination sanitary / flood pump stations

The operation and maintenance programs for these pump stations are detailed in Section 2 (NMC 1) of this document.

#### 5.4 CAPACITY OF CONVEYANCE SYSTEM

MSD utilitizes a hydraulic model to analyze flow conditions and design capacities in the combined sewer system. The hydraulic model is used to identify alternatives to maximize flow to the Morris Forman Water Treatment Plant.



There are three conveyance routes that deliver wastewater to the MFWTP:

- The MDS Interceptor downstream of CSO 211 (also referred to as the Main Diversion Structure), where two major interceptors – the Southern Outfall and the Ohio River Interceptor – converge;
- The Southwestern Branch Interceptor to MFWTP which conveys flows via the Southwestern Pump Station (SWPS); and
- The Rubbertown Force Main which conveys less than 10 mgd of industrial flow from an area south of the plant site. Since the area served by the Rubbertown Force Main is not part of the CSS, it was not included in the CSS hydraulic model. However, this industrial contribution is included in the evaluation of influent flows and loadings to the MFWTP.

The maximum carrying capacities of the MDS Interceptor (350 mgd) and Southwestern Branch Interceptor (103 mgd) were calculated under surcharged conditions using the CSS hydraulic model. The non-surcharged, full pipe, capacities for the MDS Interceptor and Southwestern Branch Interceptor are 250 mgd and 74 mgd, respectively. MSD installed an inflatable dam at the MDS to provide the additional hydraulic head needed for the interceptor to flow at 350 mgd, thus maximizing the carrying capacity to the MFWTP.

This analysis also indicates that the carrying capacity from these two interceptors exceed the peak hydraulic capacity of the MFWTP. Therefore, the actual flow conveyed through these interceptors is limited to the capacity of the MFWTP less the flow from the Rubbertown Force Main. A summary of the minimum, average, and peak day flows at the MFWTP for the period between January 1, 2003 and July 31, 2006 is presented in Table 5-1.

TABLE 5-1
MINIMUM, AVERAGE, AND PEAK DAY FLOWS AT THE MFWTP

	2003			2003 2004				2005			2006	
Month	(Min)	(Ave)	(Peak Day)	(Min)	(Ave)	(Peak Day)	(Min)	(Ave)	(Peak Day)	(Min)	(Ave)	(Peak Day)
								4.40.0			440.0	007.0
January	65.5	97.2	164.2	75.3	113.3	191.1	73.5	149.8	227.4	89.5	142.9	237.2
February	86.4	118.4	215.0	80.8	119.0	222.8	94.2	127.3	173.7	82.9	114.3	204.7
March	69.1	87.5	160.0	84.5	124.6	202.9	83.4	113.5	217.5	78.8	118.4	189.8
April	72.1	110.2	167.0	93.7	134.7	193.7	85.4	113.1	199.3	102.9	150.7	222.8
Мау	72.9	107.6	183.8	67.5	132.6	209.4	80.5	108.2	178.9	82.6	112.9	196.6
June	70.0	108.8	209.5	77.3	110.3	152.3	63.2	92.0	149.5	86.1	113.9	186.2
July	79.9	99.8	169.7	79.7	116.7	168.0	71.7	95.7	163	81.7	110.4	184.6
August	85.2	114.0	209.1	72.4	97.6	173.7	75.3	97.6	194.2			
September	81.1	114.8	228.1	72.4	85.1	112.3	76.5	97.5	148.4			
October	80.1	95.4	178.0	60.8	98.2	146.4	67.2	80.5	145.8			
November	70.0	102.6	198.5	94.5	140.1	198.7	69.3	97.8	214			
December	76.3	101.7	211.1	89.1	136.6	233.6	82.8	104.2	179.2			

#### 5.5 STORAGE TO ENSURE MAXIMIZATION OF FLOW

Any opportunity to provide additional storage within the system serves to maximize the flow that reaches the treatment plant. As discussed in Section 3 (NMC 2) of this report, MSD has identified 82.3 million gallons of in-system storage, due to the vast network of large diameter interceptors in the CSS. This available storage volume will be utilized by using a Real Time

Section 5 Page 2 of 16



Control system, which monitors and controls critical regulators in the CSS. The first phase of the RTC system was operational in April 2006. During its first 16 weeks in operation, the system reduced the volume of overflows by 200 million gallons. The second phase is under design and scheduled to be operational by December 2008. Future phases will be included in the Long Term Control Plan.

#### 5.5.1 Wheeler Basin

The Wheeler Avenue area is in a shallow "bowl" at an elevation 2 to 3 feet below the surrounding ground and is drained by a combined sewer to the Mill Creek Trunk Interceptor (MCTI). The MCTI, located in Taylor Boulevard, receives the entire flow from the Wheeler Avenue area. The MCTI is a very large sewer, 12-feet 8-inches wide by 19-feet tall. Flow from the MCTI is conveyed to the Southwestern Outfall, followed by the Southwestern Pump Station (SWPS) and ultimately to the MFWTP. During very large storms, the Mill Creek Trunk would surcharge into a nearby low lying area. On August 8, 1992, the area was flooded by a major storm event (3.84" of rain in 2.5 hours, an approximate 100-year storm). Following this flooding, MSD conducted a major study of the causes and potential solutions for the flooding problems that resulted in the implementation of the Wheeler Avenue CSO/Flood Control Project. The objective of the Wheeler Avenue CSO/Flood Control Project was twofold:

- Reduce the CSO volume that occurs at the Southwestern Pump Station, and
- Reduce the occurrence of neighborhood flooding.

The project involved constructing a 553,000-gallon CSO basin inside a 4,900,000 gallon flood control basin. Additionally, 1.1 million gallons of storage was utilized in the 78-inch combined sewer.

The flow into the basin is regulated by a manually controlled gate that is left partially open. During larger storm events, the system hydraulics naturally divert flow into the basins. For example, during a rainfall event in 2005, MSD observed that the concrete basin filled completely and 2.55 million gallons were diverted to the earthen basin. At the present, the storage basin "floats" on the system and the volumes captured are not recorded. Observations of combined sewage capture in the basin in anecdotal only, and no measured data is available to document how often it is used, or how much flow is captured. Overflow volumes at the Southwestern Pump Station are not metered, so the impacts on overflows cannot be quantified at this time. As part of the second phase of the Real Time Control project, MSD is designing monitoring and control equipment to optimize control and capture information on the use of this basin. This equipment will also allow MSD to quantify the CSO reduction.

#### **5.6 PUMP STATION OPERATION**

#### 5.6.1 Review and Adjustment of USACE Pump Stations

MSD has the responsibility for the operation and maintenance of an extensive flood protection system that was developed by the USACE in the 1950s. A significant portion of this flood protection system, 9 flood pump stations and 162 flood control gates, are associated with MSD's CSS. Refer to Exhibit 67 of the 308 submittal for the Corps of Engineers Flood Protection System Operation Manual which defines the operating procedures for each of these facilities.



During elevated river stages, the flood protection system and the CSS operate in an integrated manner. When the USACE developed the flood protection system, their focus was to protect the community from flood damage. The minimization of overflows from the CSS was not a priority. Through the development of MSD's CSO Abatement Program, specific opportunities for procedural modifications can be made to reduce overflows from the CSS and still maintain the integrity of the level of flood protection provided by the system. MSD led the first effort to revise the procedures at the three critical combination sanitary and flood protection pump stations. These modifications were discussed, submitted and implemented in 2003. Refer to Exhibit 45 of the 308 submittal for documentation of these changes.

### 5.6.1.1 4th Street Flood Pump Station

The 4th Street Flood Pump Station (FPS), located on the southeast corner of 4th and Main Streets, was constructed by the USACE in the 1950s as part of Louisville's flood control system and also functions as a sanitary pumping facility during non-flood conditions. During non-flood conditions, the flow in the 4th Street Relief Sewer is diverted into the pump station and pumped into the Ohio River Interceptor (ORI – 84" circular sewer).

The 4th Street Relief Sewer is a 7'-6" semi-elliptical sewer that was built in the late 1920s to relieve overloaded sewers along 4th Street, Muhammad Ali Boulevard, Chestnut Street, and Broadway. The relief sewer was designed to relieve all flows in the overloaded sewers, not just excess flows. Therefore, sanitary flow is present in the relief sewer at all times.

The 4th Street FPS contains a sanitary wetwell, a flood wetwell, and six pumps (three sanitary pumps and three flood pumps). The sanitary pumps can also be used as flood pumps. There are two 35 HP sanitary pumps rated at 4,000 gpm at 25 feet of head and one 60 HP sanitary pump rated at 5,900 gpm at 35.7 feet of head. The sanitary pumps discharge into a common header which leads to either the Ohio River Interceptor or the flood pump discharge chamber. The station also has three 350 HP stormwater pumps for a total station capacity of 95,400 GPM.

Under normal Ohio River pool conditions (below 17.7 UG), the 4<sup>th</sup> Street FPS is in sanitary lift mode and the sanitary pumps are in operation and all the FCGs are set so that all dry weather flow remains within the CSS at all times and no overflows to the river can occur. During wet weather events, overflows occur at both CSOs 22 and 23 when the water level in the CSS exceeds the dam elevations.

- CSO 22 is on the 4<sup>th</sup> Street Relief Sewer and has an overflow elevation of 425.33.
- CSO 23 is on the ORI and has an overflow elevation of 443.5.

Under the plant idle mode of operation (17.7 UG to 28.8 UG), all pumping at the station is stopped and all flow from the CSS is diverted to the river as required by the USACOE Operations and Maintenance Manual for the Flood Protection Works (Exhibit 67 of the 308 response letter). This station goes into plant idle mode between a 1-2 year flood event.

Under the flood pumping mode of operation (above 28.8 UG), the FPS is in full operation (using both the sanitary and flood pumps) and all flow from the 4<sup>th</sup> Street Relief Sewer, both during dry and wet weather conditions, is pumped to the Ohio River. Any overflow from the ORI is also pumped to the river. This station goes into flood pumping mode between a 5-10 year flood event.

The overflow dam on the 4<sup>th</sup> Street Relief Sewer (CSO 22) was raised 2 feet in August 1994 by MSD crews. This modification raised the dam to its current elevation of 425.33 (17.7 Upper

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Gauge). By raising the dam 2 feet it reduced the frequency and duration that the PS would enter the plant idle mode of operation and thereby eliminated overflows that would have occurred at the lower dam elevation. Based on river elevation data from 2003 to 2005, the annual reduction of CSOs resulting from this modification is estimated at 13.7 MG/YR.

### 5.6.1.2 34th Street Flood Pump Station

The 34th Street Flood Pump Station (FPS), which is located just south of the levee on 34th Street, was constructed by the USACE in the 1950s as part of Louisville's flood control system and also functions as a wastewater pumping facility during non-flood conditions. The station conveys flow from the northern portion of the City to the Ohio River Interceptor or to the lower pool of the Ohio River, depending on flow and river elevation.

A diversion dam on the 138" sewer flowing north on 34th Street diverts low flows through a 24" sewer into the pump station. The pump station discharges to the 36" 38th Street Branch Interceptor which conveys the flow to the Ohio River Interceptor at 38th Street and Herman Street. The diversion dam is designated as CSO 19. Excess flow tops the dam and is discharged through the sewer to the lower pool of the Ohio River. When the river stage exceeds elevation 421.83 (48.54 LG) on the lower pool, the pump station is shut down and backwater and sewage is allowed to pond in the sewer system. All flow is discharged to the river.

The pump station contains two sanitary pumps rated at 4,250 gpm each at 31.5 feet of head and four storm pumps rated at 15,600 gpm each at 34 feet of head. The sanitary pumps can also be used for flood pumping.

Under normal river pool conditions (below 48.54 LG), the 34<sup>th</sup> Street FPS is in sanitary lift mode and the sanitary pumps are in operation to return flow to the CSS and all the FCGs are set so that flow during dry conditions remains within the CSS at all times. During wet weather events, overflows occur at CSO 19 when the water level in the CSS exceeds the CSO 19 dam elevation (421.83 or 48.5 LG).

Under the plant idle mode of operation (48.54 LG to 61.54 LG), there are no pumps at the station in operation. The level of the river has topped the dam at CSO 19 and all flow from the CSS can discharge to the river under both dry and wet weather conditions, as required by the USACE Operations and Maintenance Manual for the Flood Protection Works (Exhibit 67 of the 308 response letter). The station goes into plant idle mode for between a 1-2 year flood event.

Under the flood pumping mode of operation (above 61.54 LG), the station's flood pumps are in operation and all flow from the CSS, both during dry and wet weather conditions, is pumped to the Ohio River. The station goes into flood pumping mode for between a 5-10 year flood event.

The operating procedures for this pump station were modified in 2002 so that the sanitary pumps remain in operation until the Ohio River reaches the top of the overflow dam for CSO 19 (48.33 Lower Gauge). Based on river elevation data from 2003 to 2005, the annual reduction of CSOs resulting from this modification is estimated at 30.2 MG/YR

### 5.6.1.3 Robert J. Starkey (formerly Buchanan) Pumping Plant

The Starkey Pumping Plant is both a sanitary sewer lift station and a flood pumping station. It is operated as a sanitary sewage lift station during normal river stage periods (below 15.6 on the Upper Gauge). The Starkey Pumping Plant is the first lift station on the upper river that goes into flood pumping mode at upper river gauge 15.6 and is in flood pumping mode at an average



of three times per year. During normal river stages, the flow into the station is pumped into the Ohio River Interceptor and transported to the MFWTP. When flood pumping mode is activated at the station, gates are closed in the outfall piping to prevent the Ohio River from backing up into the sewer system, and therefore prevent flooding. During extreme conditions, excess water that cannot be conveyed to MFWTP is pumped to the Ohio River. Before the major upgrade, the operations at the Starkey Pumping Plant were optimized through the rehabilitation of the pumps and adjustment of operating level to ensure longer maximum capacity pumping.

The Starkey Pumping Plant project consisted of upgrading the existing pump station capacity from 125 mgd to 140 mgd. The upgraded Starkey Pumping Plant included a new wet well adjacent to the old wet well, four new variable speed submersible pumps capable of handling 35 mgd each, two channel monsters with hydraulic motors for screening, a new electrical substation, new instrumentation and control, including provisions for telemetry; and new HVAC which includes at least six air changes per hour in the pump station building and at least twelve air changes per hour in the wetwell. This improvement reduced the AAOV by 70 MG/YR.

The revised operating levels and rehabilitated pumps increased retention of wet weather flows by conveying more flow to the ORI during wet weather periods. This results in a decrease of 485 MG/yr from the CSOs within the Beargrass Creek basin, an increase of 9.5 MG/yr from the CSOs within the Ohio River Interceptor and a system-wide decrease of 475.5 MG/yr. When combined with the improvements of increasing the pump station capacity, the total AAOV at the Starkey Pumping Plant decreased 545.5 MG/yr.

#### 5.6.2 Southwestern Pump Station

The Southwestern Pump Station (SWPS) receives its flow from the Southwestern Outfall. The incoming flow goes into the two wet wells and is pumped by four pumps into the Southwestern Branch Interceptor to the MFWTP. Only 3 pumps can run at any one time, due to capacity limitations in the Southwestern Branch Interceptor. In the past, when the water level in the Southwestern Outfall reached the crest level of the diversion dam (elevation 400.0) located in the outlet, an overflow occurred. This overflow was directed towards the Ohio River through the Sluice Gate Chamber (SGC) at CSO 15, which prevented high river waters from flowing back into the sewer system. The SGC contains three isolation gates. These gates have recently been put in operation in the RTC system, storing flow in the interceptor and increasing the amount of flow eventually pumped by the SWPS. Formerly those gates were normally open except when emergency river flooding procedures were in effect (i.e., when the Ohio River elevation reaches 400.0). They continue to be re-opened if the river reaches an elevation of 417.0, pending review of the flood protection guidelines of USACE.

As noted previously, only three of the 4 pumps at SWPS can be run at a time, based on the capacity of the downstream piping system. During wet weather, all three pumps run if sufficient capacity exists to allow delivery of the maximum flow available from the Main Diversion Structure (MDS) and still receive 100 MGD from SWPS. Flow from the Southern Outfall (that flows through MDS) generally has higher pollutant concentrations than flow from the Southwestern Outfall, so if wet weather conditions dictate that an overflow will occur, flow is taken from MDS up to its full delivery ability. Since the Southern Outfall wastewater is generally more dilute, an overflow at SWPS discharges less pollutant load that would be expected if the overflow happened at CSO 211 at the MDS.



#### 5.6.2.1 Operational Modifications

The east and west influent gates at SWPS have recently been equipped with new electric actuators designed for modulating service. The purpose of this modification is to control the water levels in the screen chamber and wet well areas of the station regardless of the depth of flow in the Southwestern Outfall. The ability to throttle the flow through the gates to control downstream levels in the screen chamber and wet well has a positive impact on the operating conditions at the station and improves the performance of the screening and pumping equipment.

The intent of the modifications was to contain the flow within the existing screen channels and to maintain the total dynamic head on the pumps as close as possible to design conditions. According to the climber screen specifications, shop drawings and manufacturer's O&M manual, the units are designed for a capacity of 70 mgd each with a downstream water depth of 6.5 feet and a maximum headloss of 12 inches based on a 40% plugged screen. This results in a design maximum upstream water depth of 7.5 feet which corresponds to elevation 400.00. The top of the screen channel is elevation 404.25. All flow will be contained in the channels provided that the influent gates are pinched down adequately to negate any excess depth of flow in the Southwestern Outfall. Through level monitoring and PLC programming, the positions of the east and west influent gates will automatically modulate as the water depth in the outfall sewer varies to ensure that the level upstream of the screens does not exceed elevation 400.00. The water level downstream of the screens is essentially the wet well level. The maximum wet well level will be elevation 399.00 using the 12 inch headloss through the screens.

#### 5.6.2.3 Wet Weather Operations

MSD has modified the SOP for this station to take advantage of the inline storage capacity within the Southwestern Outfall (SWO). When the Ohio River stage remains below 400 feet, the gates at the Sluice Gate Chamber will remain closed. The operator will monitor the Southwestern Pump Station when wet weather is forecast. This is to ensure that the screens remain in service and the water level in the Southwestern Outfall is below 410 feet (instead of the previous elevation of 400 feet). If the water level elevation in the Southwestern Outfall increases to 410 feet and is rising quickly, the operator opens the Sluice Gate Chamber gates to prevent flooding. When the water level in the Southwestern Outfall returns to levels below elevation 410 feet, the Sluice Gate Chamber gates are closed and the screening systems are placed in "Manual - Continuous" run mode. The operator monitors the screens to ensure that they remain in service. This modification takes advantage of storage within the Southwestern Outfall from elevation 400 to 410 feet that previously would have resulted in an overflow. When storage occurs up to elevation 410 in the SWO, a maximum of 10 MG can be retained during a wet weather event. Based upon hydraulic computer model simulations, this will result in an average annual reduction in overflows of approximately 421 MG. Beginning in April 2006, these gates have been incorporated into the RTC system. As shown in Table 3-5, the control level has since been increased to an elevation of 413 feet, which will further increase the overflow reductions at this location.

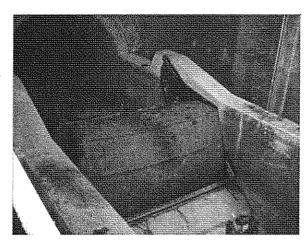
#### 5.7 FLOW MANAGEMENT ENHANCEMENT

The MFWTP can treat up to 350 mgd of combined sewage flow. As stated previously, flow is received at the plant from three sources. Flow received at MFWTP from these sources varies depending upon system flow conditions. Refer to Figure 5-2 for a diagram depicting operation of the Main Diversion Structure during these various conditions.

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The Main Diversion Structure (MDS) receives wastewater from both the Ohio River Interceptor (ORI) and the Southern Outfall. The Southern Outfall is 15'-6" high and 15'2" wide. It enters the MDS from the east. The estimated flow capacity of the Southern Outfall is 766 mgd. The Southern Outfall extends through the MDS to the Ohio River. The ORI is an 8-foot diameter sewer with a capacity of 155 mgd. It enters the MDS from the north, and crosses beneath the Southern Outfall within the MDS. The MDS Interceptor starts at the MDS and extends to MFWTP. The diameter of this semi-elliptical pipe flowing to the plant is 11 feet, and has an estimated full-flow capacity of 265 mgd.



Inflatable dam at CSO 211

An inflatable dam located at CSO 211 is programmed, through a PLC, to maintain a crest

elevation of 422 feet. This elevation creates the surcharge necessary within the MDS to deliver 350 mgd to the plant from the MDS Interceptor.

There are three sluice or stop gates within the MSD. Each gate has a specific/individual use for flow control.

- The Timber Gate (ORI Stop Gate) controls flow from the ORI upstream of the MDS. It is controlled locally through a motorized actuator.
- The Sluice Gate #2 (Southern Outfall Gate) controls flow from the Southern Outfall to the MDS Interceptor. It is locally controlled through a motorized actuator.
- The Sluice Gate #1 (Main Diversion Gate) is used to control flow from the MDS to MFWTP. The gate is normally positioned at 40% open during dry weather. The gate can be controlled from the MFWTP computer room or locally at the gate.

The following descriptions summarize the MDS flow controls to MFWTP during a variety of flow conditions.

#### 5.7.1 Dry Weather Flow (Normal Conditions)

The dry weather flow scenario at the MDS is as follows:

- Southern Outfall Sluice Gate (Gate #2) Completely Open
- Timber Gate (ORI Stop Gate) Completely Open
- Sluice Gate #1 (MFWTP Flow Control Gate) 40% Open (wastewater flows underneath gate unimpeded during dry weather)
- The inflatable dam is controlled automatically, maintaining a crest elevation of 422 feet blocking all flow to the Ohio River
- All dry weather flows from the MDS Interceptor are diverted to MFWTP.

#### 5.7.2 Wet Weather Flow (Heavy Rain or Flood Conditions)

During wet weather conditions at the Main Diversion Structure, Sluice Gate #1 (Main Diversion Gate) is used to control flow to the MFWTP and even limit the flow to the plant when necessary. Flows that come from the Rubbertown Force Main are not metered. Flows conveyed through the Rubbertown Force Main are delivered directly to MFWTP, downstream of CSO 211.

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Therefore, this flow of 8 to 10 MGD receives treatment at MFWTP and cannot be diverted to a CSO.

The maximum allowable plant flow must be first calculated in order to utilize this flow control strategy. The maximum flow that can be accepted and treated by the MFWTP is dependent upon the number of process units in service at the plant and their corresponding capacities. Refer to Section 5.7.2 for an explanation of maximum allowable plant flow.

When the water level rises to 422 feet or greater in the Southern Outfall, the inflatable dam starts to deflate in order to allow excess flows to overflow CSO 211 and not overload the MFWTP. Flow from the Main Diversion Structure that is unable to be accepted at MFWTP will then be diverted to the Ohio River via CSO 211 during wet weather or flood conditions.

#### 5.8 ENSURE OPTIMIZED WTP OPERATION

The Morris Forman Wastewater Treatment Plant (MFWTP) provides treatment for the portion of the MSD system that includes all of the combined sewers. The amount of flow accepted into the MFWTP during wet weather events is calculated by the plant's operation staff based on the number of treatment units in service at the time of the wet weather event and certain critical operating conditions.

As part of MSD's wet weather abatement program and in cooperation with the Kentucky Division of Water, MSD committed to increasing the amount of flow accepted at MFWTP with a peak flow of up to 350 mgd under optimal operating conditions. In order to accommodate hydraulic peaks of up to 350 mgd, a number of construction projects were implemented.

#### 5.8.1 Stress Testing

In 2002, a series of wet weather stress tests were conducted to determine the capacity of the primary sedimentation basins and the secondary clarifiers, and to ascertain the extent of mixing in the chlorine contacts basins under high flow conditions. The primary sedimentation basins can hydraulically accept 100 mgd of flow in each tank, but did not perform well initially when the blanket depths were 8 feet. The test was conducted again with blanket depths of 3 feet and the performance improved significantly.

The secondary clarifiers were tested at flow rates up to 10 mgd per clarifier with good removal at that rate for a relatively short time (30 minutes). However, the 10 mgd rate also included the RAS flow, so that needs to be taken into account when determining the maximum flow the plant is willing to accept in the secondary system. The RAS flow is typically 25% to 30% of influent flow, so the effective pass-through flow was slightly more than 7 mgd.

This stress testing identified upset limits for the primary sedimentation basins and secondary clarifiers. The testing documented that process upset limits (loss of treatment effectiveness) are based on both hydraulic loading rate and sludge blanket levels. Operating guidelines have been established to typically maintain sludge blankets below the point that would impact unit capacity. Sludge blanket level is one of the key operating parameters that impact downstream processes, so blankets cannot be drawn down too far (even in anticipation of a wet weather event) or other processes are put at risk. Refer to Item 5-1 in the NMC Supplemental Information binder for a description and results of these wet weather stress tests.

In 2004, additional wet weather stress testing was performed on the chlorination/dechlorination system at the MFWTP. The intent of the testing was to determine the ability of the system to effectively disinfect the effluent and successfully neutralize the chlorine residual as plant flows



were increased to 350 mgd. Refer to Item 5-2 in the NMC Supplemental Information binder, for additional information on this series of stress testing.

#### 5.8.2 Wet Weather Optimization

With the completion of the High Purity Oxygen Modifications and Secondary Clarifier Rehabilitation projects, the MFWTP has the capacity to consistently accept 140 mgd for short durations through the secondary system, if all treatment units are available and certain operating conditions exist. This requires increased operator attention to monitor secondary clarifiers for any deterioration in performance. The secondary capacity, along with the secondary diversion capacity of 210 mgd, will allow the MFWTP to accept peak flows up to 350 mgd during a wet weather event with all treatment units in service and optimal operating conditions in sedimentation basins and clarifiers.

Note that operational experience shows that maintaining maximum flows of approximately 325 mgd provides reasonable assurance that short-term peaks will not exceed 350 mgd. Loss of treatment efficiency has been observed if short-term flows peak above 350 mgd due to solids wash-out.

As shown in Table 5-2, the capacity of each treatment unit at the MFWTP is listed and the calculator determines the flow rate that can be accepted into the plant based on the treatment units on line at the time of the high flow event. The computer operators perform this calculation at 6:00 a.m., 2:00 p.m., and 10:00 p.m. on any day where storm flow is expected, and will limit the influent flow to the plant at the calculated level. The operations supervisor will be notified and the flow will be regulated accordingly. Each calculation sheet will be archived for future reference.

In the MFWTP Capacity Calculator Example Scenario shown below, the secondary flow to the treatment plant will be limited to 112 mgd and the overall plant flow will be limited to 310 mgd based on the capacity of the primary sedimentation basins.

The capacity calculator is used primarily to establish maximum flow rates that can be accepted for treatment during wet weather. The values are based on stress testing conducted in 2002. Previous capacity studies have been conducted in 1994 (hydraulics only), 1995 (primary sedimentation only), and 1996 (full treatment facility). These previous studies identified both hydraulic and treatment process bottlenecks that limited the peak wet weather capacity in 1996 to 225 mgd. Capital improvements have been made to correct the bottlenecks identified, leaving the primary sedimentation basins, the final clarifiers, and the Final Effluent Pump Station (FEPS) as the potentially limiting unit processes. A FEPS upgrade in 1999 provided adequate firm pumping capacity to remove it as a limiting unit process, assuming that at least 3 of the 4 pumps are available during peak flows. The primary sedimentation basins and final clarifiers remain the limiting unit processes, based on their size and configuration.



# TABLE 5-2 MFWTP Capacity Calculator – Example Scenario

Process Area	# of Units	Unit Size	Capacity per Unit (mgd)	# of Units Available	Current Capacity (mgd)
New Headworks					
a) Bar Screens	4	4-ft wide	45	4	180
b) Grit Systems (Pista)	4	24-ft dia x 10.5-ft SWD	45	4	180
Old Headworks					
a) Bar Screens	3	9-ft wide	75	2	150
b) Grit Systems (aerated)	3	18-ft x 65-ft x 13-FT SWD	75	2	150
Total Headworks Capacity					
a) Bar Screens					330
b) Grit Systems					330
Primary Sedimentation Basins					
a) DOB > 5 ft	4	70-ft x 275-ft x 14.5-ft SWD	70	2	140
b) DOB = 3 to 5 feet	4		80	1	80
c) DOB < 3 feet	4		90	1	90
Total Primary Sedimentation					310
Secondary Treatment					
a) Clarifiers (DOB < 3 feet)	20	105-ft dia X 14-ft SWD	7	16	112
b) Secondary Bypass	1		210	1	210
Total Secondary Treatment					322
Chlorination/Dechlorination					
a) CI Residual = 0.3 mg/L	2	2.34 MG	137.5	0	0
b) Cl Residual = 0.5 mg/L	2		175	2	350
Total Chior/Dechlor					350
FEPS	4		120	4	480

The optimal operating conditions during a wet weather event are significantly different from the optimal operating strategy during dry weather. Since the MFWTP is a high purity oxygen plant, the activated sludge tanks are much smaller than in a standard activated sludge plant. When the plant is carrying an ideal biomass level, there is about 800,000 - 1,200,000 pounds of solids under aeration. Over half of the solids are carried in the secondary clarifiers. If all systems are operating at peak capacity, approximately 300,000 pounds of solids per day can be removed from the activated sludge system. However, on an average day, an additional 200,000 pounds of suspended solids enters the plant, with approximately 40% removed in the primary sedimentation tanks. During a rain event the removal rate will be even less, due to the high flow rates. That only gives an opportunity to remove 180,000 pounds from the system with 24 hours notice.



Removing unusually large amounts of solids in a short duration may provide some short-term benefit during a high flow period, but will generally have a negative long-term effect, particularly if the plant flow remains high for several days. Several days of maximum secondary flow may wash out the biomass if it is kept at a very low level to accommodate a storm event. Since January 1, 2006, there has already been one day with the average flow for the day at 237 mgd and another at 223 mgd. Additionally, there have been 3 days this year where the peak flow has been in excess of 300 mgd. In April 2006, the average plant flow for the entire month was over 150 mgd.

Actual plant flows, secondary flows, and secondary bypass flows are submitted each month on the DOW-15 form along with the Discharge Monitoring Report for the MFWTP. Printouts of the DOW-15 forms for the past 2 years are included as Item 5-3 in the NMC Supplemental Information.

Use of the capacity calculator has proven valuable in the MFWTP efforts to maximize the treatment of wet weather flow peaks without compromising long-term treatment efficiency. Refer to Item 5-2 in the NMC Supplemental Information, MFWTP - Wet Weather Standard Operating Procedure, for additional information on the capacity calculator.

#### 5.8.3 Planning for Capacity Needs during Maintenance Activities

Major maintenance activities are typically scheduled when they will have the least impact on plant performance. Work on the Oxygen Generation Area (OGA) is performed during the cold weather months when the oxygen demand is lowest. At the end of 2005, an outage was needed to complete a maintenance project on the entire Battery B, including eight clarifiers. The work was scheduled for the week between Christmas Day and New Year's Day when plant flows and loads are historically at their lowest.

A plant impact request (PIR) is required for all significant maintenance work and it is discussed in the daily meeting with the operations staff each weekday morning. The PIR lists the requested date and time, the expected duration, the plant area(s) affected, and the resources needed. It requires approval from maintenance planning, the mechanical group, electrical/instrumentation, controls, and operations before the work can proceed. The work can only continue as planned if all environmental factors, such as river elevation or dry weather conditions, allow it.

### 5.8.4 SOPs and Training

The MFWTP is currently divided into six process areas in order to qualify operators at the plant. Those areas are Preliminary/Primary, Secondary, Waste-Activated Sludge, Oxygen Generation, Dewatering, and Drying. An operator's classification depends on a demonstration that one or more of these areas has been mastered and the operator is able to perform the duties of the area unassisted.

Training in the individual areas comes from several sources. An operator will receive training from another operator who is already qualified in an area and will also receive training from the operations supervisors. There is also a full-time trainer assigned to the operations division who typically provides training in a group setting. This training tends to be in a classroom venue and includes the theory behind the process area.

In order to assist with all of the training efforts, a series of SOPs have been developed for the MFWTP that include all of the process areas and some sub-areas to the processes. The list of SOPs includes the following:

- Preliminary Treatment
- Primary Treatment



- Secondary Treatment
- Bio-roughing Towers
- Chlorination/Dechlorination
- Final Effluent Pump Station
- Sludge Thickening
- Digestion
- Dewatering
- Drying
- Oxygen Generation

In addition to these MSD generated SOPs, there are a number of SOPs for specific pieces of equipment that were provided by vendors when the equipment was installed.

#### **5.9 COMPLIANCE SUMMARY**

In 1996, the wet weather capacity of the MFWTP was rated at 225 mgd. Since that time, numerous modifications have been made to the plant to eliminate hydraulic and process bottlenecks. The plant can now accept flows up to 350 mgd during wet weather conditions assuming all units are in service and can operate at their maximum hydraulic capacity. A summary of these projects, including the capital cost and year completed, is presented in Table 5-3. A detailed description of these projects is included in Section 4 of the Interim Long Term Control Plan. MSD does not plan to construct any additional capacity-related projects at the MFWTP until they are defined by the LTCP.

TABLE 5-3
SUMMARY OF MFWTP CONSTRUCTION PROJECTS 1990-2005

	Year Completed	Capital Cost (\$1,000)
CSO 211 (Main Diversion Structure)		
MDS Phase 1	2001	\$883
MDS Phase 2	2003	\$565
MDS Biofilter Media	2002	\$170
SWPS		
SWPS Modifications	2002	\$3,505
SWPS Gate Control	2002	\$265
SWPS Outfall Repair	2003	\$467
SWPS Minor Projects		\$907
Headworks		
New Headworks	2000	\$9,010
Grit System Rehab	2002	\$239
Bar Screen Rehab	2002	\$208
Grit conveyor replacement	2002	\$427
Headworks conveyor replacement	2001	\$383
Headworks Minor Projects		\$952
Primary Sedimentation		
Sed Basin Rehab	2003	\$213
Sed Basin Rail Refurb	2005	\$367
EPS Primary	1999	\$418

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	Year Completed	Capital Cost (\$1,000)
Ferric /Ferrous Improvements	2002	\$179
Primary Minor Projects		\$496
Bioroughing Towers		
Bioroughing Construction	1993	\$13,200
Bioroughing Rebuild	2000	\$4,436
Bioroughing Odor Control	2001	\$3,498
Bioroughing Minor Projects		\$443
Primary Effluent Flow Routing		
Wet Weather Capacity Flow Mods	2001	\$1,507
Aeration Basins		
HPO Modifications	2003	\$9,289
Secondary Clarifiers		
Secondary Clarifier Mods	2003	\$2,883
Secondary Clarifier Metering	2003	\$950
WAS Pump Replacement	2003	\$578
Secondary Clarifier Minor Mods		\$238
Disinfection		
Chlorine Area Mods	2000	\$144
Sodium Hypo Mods	2000	\$187
Disinfection Minor Projects	111111111111111111111111111111111111111	\$58
FEPS		
FEPS Upgrade	1999	\$4,896
FEPS Minor Mods		\$472
TET O MINOT MODE	Year Completed	Capital Cost (\$1,000)
Solids Handling Modifications		(4 - 4 )
Fume Incinerator	1998	\$1,220
Back-up Fume Incinerator	2002	\$1,019
DAFT Odor Control	2002	\$1,025
Storage Tank Covers	1999	\$1,209
Solids Handling Minor Mods		\$1,786
New Solids Handling		
Alternative Solids Processing	2004	\$80,172
Solids Receiving and FM Separation	2005	\$5,680
DAFT Polymer	2005	\$115
DAFT Rebuild	2003	\$800
General Plant Systems		
Power System Phase 1	2000	\$1,897
I&C Improvements	2001	\$1,889
Process Control Migration	2000	\$669
Electrical Mods	1998	\$2,918
General Process Improvements	1999	\$377
General Plant Mods & Prof Svcs		\$25,448
Total 1990 - 2005	•	S188,657



Over the years, MSD has performed field tests and evaluations to determine the ability of the MFWTP to operate acceptably at incremental increases of flow during wet weather. Refer to Items 5-1 and 5-2 of the NMC Supplemental Information. In addition to these documents, a Technical Memorandum entitled "Liquids Process Evaluation for the Morris Forman Treatment Plant" was prepared for MSD in July 2004. The purpose of this study was to evaluate the MFWTP primary and secondary process with respect to consistently achieving monthly and weekly permit limits for TSS and BOD during both dry weather and wet weather events. This information is used to evaluate the capacity of individual unit processes to identify available excess capacity. As presented in Table 5-4, MSD is currently operating the facility at flows in excess of the recommended design criteria, thus maximizing flow to the MFWTP. The analysis also shows that two unit processes (headworks and HPO activated sludge) have potential capacity to process additional flow if they are not constrained by the other unit processes. Utilization of this excess capacity will be evaluated in the Long Term Control Plan.

TABLE 5-4
Unit Process Capacity
Evaluation

U	nit Pro	cess		Available	Capacity		Stress	Excess Capacity	
Description	No.	Dimensions	Size	Design Criteria	Firm <sup>1</sup> (mgd)	Peak (mgd)	Test (mgd)	Firm (mgd)	Peak (mgd)
Bar Screens									
Old Headworks - Bar Screens	3	9'W, 3.2'SWD	29.0 SF	Vel: 3 fps	112	169	225		
New Headworks-Bar Screens	4	4'W, 6.4'SWD	25.7 SF	Vel: 3 fps	150	200	180		
Total	İ				262	369	350 <sup>2</sup>	0	19 - 36 <sup>3</sup>
Aerated Grit									
Old Headworks - Aerated Grit	3	18' W, 65'L, 13'SWD	0.11 MG	Det: 2.9 min	113	169	225		
New Headworks -Aerated Grit	4	24' Dia, 10.5' SWD	0.04 MG	per manufacturer	150	200	180		
Total					263	369	350 <sup>2</sup>	0	19 - 36 <sup>3</sup>
Primary Sedimentation Basins	4	70'W, 275'L, 14.5 SWD	19250 SF	SOR: 3000 gpd/sf	173	231	350	0	0
Biological Roughing Towers	2	130' Dia, 22' H	13,267 SF	HL = 3.4 gpm/sf	65	130	140	0	0
High Purity Oxygen Activated Sludge <sup>4</sup>									
Batteries A & B	4	2808 sf, 25' D	4.2 MG	HRT = 2 hr	100.8	134,4			
Battery C	1	2970 sf, 25' D	2.2 MG	HRT = 2 hr	17.6	17.6			
Total					118.4	152	140 <sup>5</sup>	0	12
Secondary Clarifiers <sup>4</sup>	20	105'Día, 14'SWD	8655 SF	SOR: 1200 gpd/sf	132	138	140	0	0
Secondary Bypass							210	0	0
Disinfection	2		1.17 MG	Det: 15 min	112	225	350	0	0

Notes

- 1 Firm Capacity One unit out of service
- 2 The maximum flow that can be tested through the plant is 350 mgd
- 3 The range is between the actual stress test flow (350 mgd) and sum of the individual units (405 mgd)
- 4 Secondary Clarifiers and HPO Activated Sludge Capacities Include 50% RAS
- 5 The maximum flow that can be tested through the HPO system is limited to the capacity of the secondary clarifiers



In addition to the improvements at the MFWTP, the Southwestern Pump Station has been expanded and an inflatable dam was added to CSO 211 to provide both in-line storage and additional head to push more flow to the plant from the Main Diversion Structure Interceptor. The net result of these modifications has been a significant increase in wet weather flows captured and treated, as shown in Table 5-5. As Figure 5-1 illustrates, the base flows received at the MFWTP have steadily declined over the past 9 years; however, average flows have increased. The incremental difference between base flow and average flows represents wet weather flows captured and treated. Figure 5-1 also demonstrates that the wet weather flow increment has been steadily increasing over the past 9 years. In addition, peak flows accepted at MFWTP have approached the 350 mgd limit for short periods of time during precipitation events. The peak daily flow has also increased over the past 7 years, as shown in Figure 5-2.

TABLE 5-5
Wet Weather Capture and Pollutant Loading Reduction

Year	Wet Weather Capture	Pollutant Reduct	ion (ton/yr)
	(MG/YR)	BOD	TSS
1997	6,610	248	744
1998	8,909	334	1,003
1999	8,112	304	913
2000	7,574	284	853
2001	4,626	174	521
2002	6,272	235	706
2003	6,363	239	716
2004	11,790	442	1,327
2005	9,426	354	1,061

The pollutant loading reductions, shown in Table 5-5, are based on primary sedimentation removal rates of 30 percent for total suspended solids (TSS) and 10 percent for biological oxygen demand (BOD). Similarly, the pollutant reductions associated with CSOs have been reduced over the past 8 years, as shown in Figure 5-3.

#### 5.10 LISTING OF SUPPLEMENTAL INFORMATION

Item 5-1 MFWTP Wet Weather Stress Testing

Item 5-2 MFWTP - Wet Weather Standard Operating Procedure

Item 5-3 MFWTP DOW 15 Printouts

Figure 5-1 Wet Weather Capture Trend

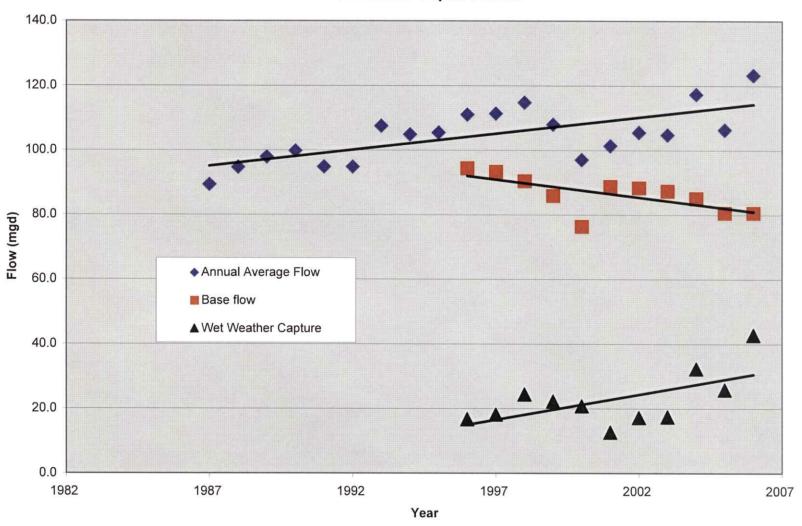
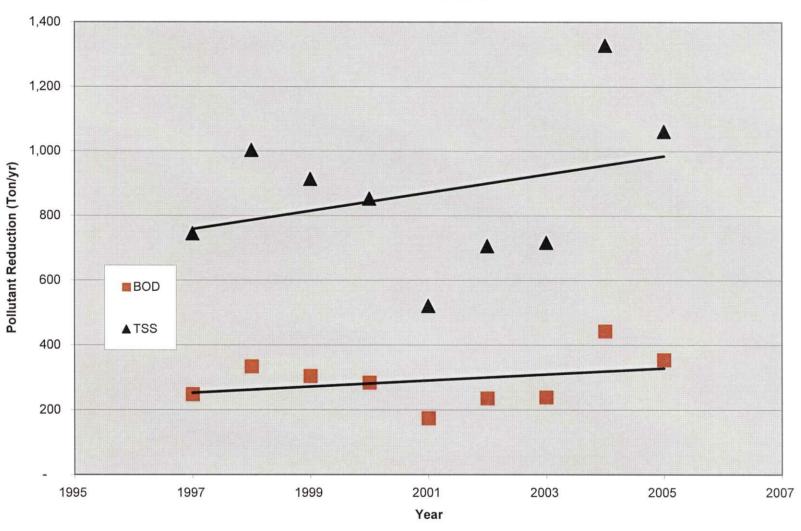
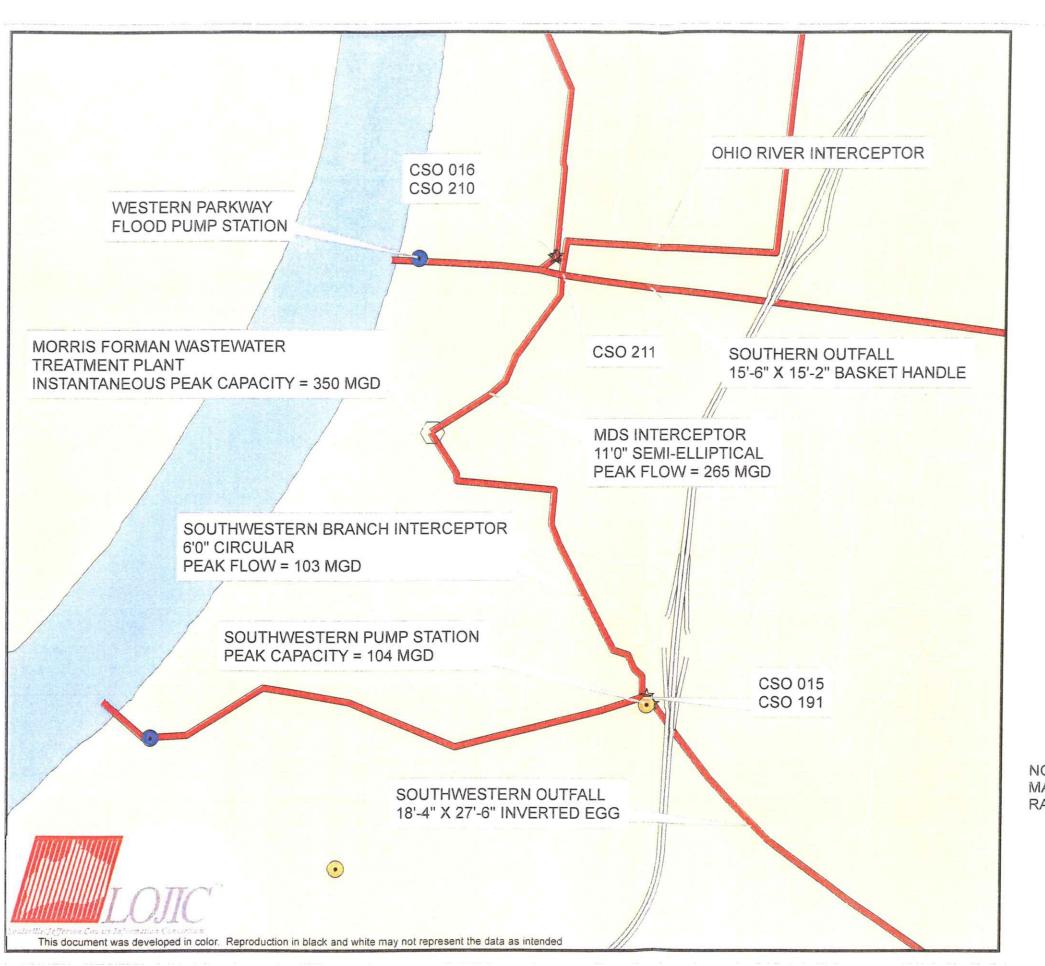


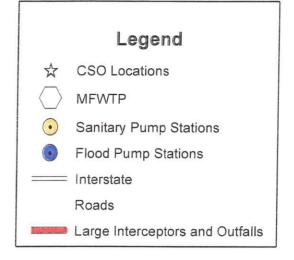
Figure 5-2 Peak Day Flow Trend 260.0 240.0 220.0 200.0 Peak Day Flow ◆ Peak Day Flow 180.0 160.0 140.0 120.0 100.0 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 Year

Figure 5-3
Pollutant Reduction





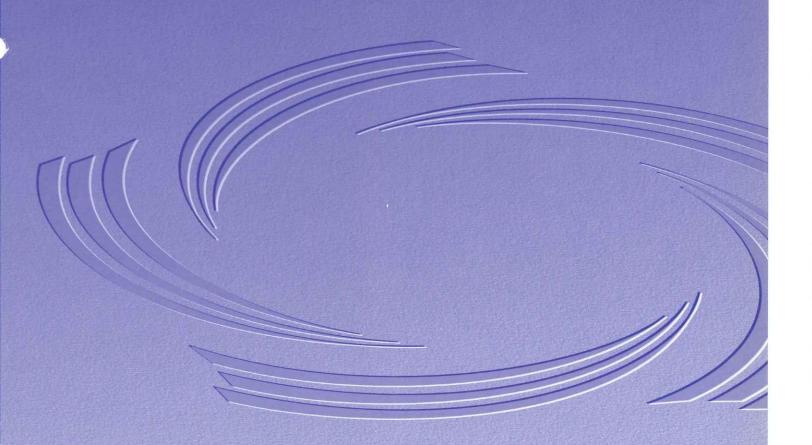
# FIGURE 5-1 PEAK CAPACITY OF MAJOR INTERCEPTORS UPSTREAM OF MFWTP



NOTE: THE FLOW RATES SHOWN ON THIS MAP ARE MODEL PREDICTED PEAK FLOW RATES DURING AN EXTREME RAINFALL EVENT.









### SECTION 6: NMC 5 - ELIMINATION OF CSOs DURING DRY WEATHER

#### **6.1 INTRODUCTION**

The objective of the fifth minimum control is to ensure that overflows do not occur from the combined sewer system (CSS) during dry weather conditions by enabling existing facilities to perform as effectively as possible. Per EPA's Guidance for Nine Minimum Controls, the municipality should take measures to ensure that overflows do not occur from the CSS during dry weather flow conditions.

#### **6.2 PROGRAM OVERVIEW**

MSD regularly inspects critical facilities within the CSS to verify system performance. If an unavoidable non-recurring dry weather CSO is discovered, it is immediately addressed. MSD also uses modeling to characterize and analyze system performance under a variety of conditions.

#### **6.3 SYSTEM CHARACTERIZATION**

During the development stages of the CSO program, MSD conducted extensive field surveys of the CSS and developed a CSO inventory. Conditions that could cause recurring dry weather CSOs were permanently corrected. A description of these corrections can be found in the Combined Sewer Operational Plan (CSOP) reports dated 1993 to 1998. Refer to Exhibits 47-51 of the 308 Submittal for copies of these reports.

The Underground Sewer Inspection Program (USI) was initiated by MSD in the mid-1990's. This program involved walking through brick sewers within the CSS that are 30" or larger in order to visually inspect the pipes. The purpose of the program was to assess the condition of the sewers, identify water main leaks that could cause problems in the collection system, identify areas requiring a more detailed inspection, note any obvious abnormalities requiring repair and determine those areas with sediment buildup. Any of these situations, if left unaddressed, could lead to dry weather overflows.

Records of dry weather overflows for the last five years were assessed for the respective causes and to determine the required mitigation activities. A summary of these dry weather occurrences is given below. Refer to Figure 6-1 for detailed information.

- Ten (10) occurrences were due to flood conditions. These overflows are due to elevated river stage, and the USACE flood protection operating procedures regarding flood pumping at various river stages. MSD has been working with the USACE to modify these procedures, where possible, to minimize or eliminate these overflows. Per the terms of the Consent Decree, occurrences at these locations will be fully addressed in the Long Term Control Plan, scheduled for completion December 31, 2008.
- Three (3) occurrences were due to mechanical problems. One mechanical problem was at the Buchanan Street Pump Station, which has subsequently been replaced by the Robert J. Starkey Pumping Plant. The other two mechanical problems occurred with the bar screens at the Southwestern Pump Station, during start-up and initial operation of new screens installed at that location.
- Five (5) occurrences were due to obstructions at regulators No. 6 and No. 17.
- Twelve (12) occurrences were due to power outages (discussed in more detail in Section 6.5.9)



 One (1) occurrence due to a leak around the inflatable dam at the Sneed's Branch facility, which was related to start-up and initial operation of this facility.

#### **6.4 INITIAL PROGRAM ACTIVITIES**

Dry weather overflows (DWOs) have been eliminated at the following locations:

CSO 051 at 11th Street: Television inspection crews discovered sanitary connections into sewers downstream of CSO 051. The sanitary flow was discharging directly to the Ohio River. A pump station was constructed which returns flow to the sewer in Main Street.

CSO 052 at 10th Street: Three sanitary connections into the overflow conduit downstream of CSO 052 were discovered. These connections were redirected in November 1994 by installing a new sewer running south in 10th Street. Collected flows are discharged back into the 10th Street sewer upstream of the overflow diversion dam.

CSO 125 at Grinstead Drive: Unpredictable overflows were observed from time to time on the Grinstead Drive sewer. It was known that this sewer received slug discharges of unknown origin from the Louisville Water Company. The slug discharges on occasion resulted in occasional dry weather CSOs occurrences. A dam was constructed at this location. There have been no indications of overflows occurring at this CSO. Additionally, MSD met with Louisville Water Company officials to discuss potential sources of the slug discharges. The Louisville Water Company has modified their residuals conveyance facilities and made changes in their operation to eliminate these slug discharges to MSD's sewers.

CSO 162 at Beals Branch: Field inspections indicated that the transfer capacity between CSO 162 and the BGI appeared to be restricted. On occasion, the Beargrass Interceptor appeared to be surcharging back into the regulator chamber and overflowing at CSO 162. By controlling the transfer rate from CSO 166 to CSO 162 using a vortex valve, and sealing up the overflow outlet at CSO 162, dry weather discharges have been eliminated at this site.

CSO 198 at 3rd Street and Ormsby Avenue: A sanitary connection was observed discharging directly into the Central Relief Drain on June 26, 1995. Consequently, this flow discharged directly to the Ohio River. By June 30, 1995, this connection was removed and re-routed, eliminating this dry weather CSO.

Southern Outfall: During cleaning of the Southern Outfall overflow pipe, two sanitary connections were found downstream of the surge basin. The sanitary connections have been removed.

Riverside Area Sewer Reconnection Project: The Riverside Area is located within Louisville Metro, west of the Beargrass Creek Pump Station, inside the Ohio River floodwall. In 1997, MSD identified some properties in this area that were not addressed during an Urban Renewal project completed in the late 1970's to install a separate sanitary sewer. MSD initiated and completed a project to connect those properties to the separate sanitary sewer system.

#### **6.5 CURRENT PROGRAMMATIC INITIATIVES**

MSD has implemented programmatic initiatives that proactively prevent the occurrence of dry weather CSOs. These initiatives are outlined below.

#### 6.5.1 Routine CSS Inspections and Maintenance Activities

MSD personnel perform routine inspection and maintenance activities at CSO locations. The purpose of these routine activities is to find and remove trash, debris or other material that has

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accumulated in the solids and floatable facilities, siphons, regulators, rack bars, or other structures where dry weather overflows could potentially occur.

Proper and timely interceptor cleaning can maintain the maximum conveyance capability of sewers in the CSS. MSD performs interceptor flushing and vactoring activities to prevent dry weather CSOs. Specifically, MSD assesses the condition of large interceptors in the CSS and based on findings, schedules appropriate cleaning or other activities. Examples include the Northeast Sanitary Trunk Sewer which was assessed and cleaned as part of the capital project to upgrade the Buchanan Street Pump Station which was later renamed the Robert J. Starkey Pump Station and Central Relief Drain sewers which were assessed, cleaned and continue to be monitored for sediment accumulation.

Roots can inhibit flow, collect debris and reduce the capacity of sewer lines that may lead to dry weather CSOs. MSD has developed a root control program to proactively schedule appropriate inspection and maintenance activities.

Refer to Section 2 (NMC 1) for more information pertaining to these collection system activities.

#### 6.5.2 Combined Sewer System Modeling

MSD has developed a mathematical model of the CSS. MSD reasoned that a well-constructed, calibrated sewer system model would provide a valuable tool that could be used to analyze system performance under a variety of conditions. One example is the ability to analyze collection system operation under dry weather conditions. The model is capable of identifying locations where the dry weather flows are approaching the top of the diversion dam or where a regulator setting may need adjustment, such that dry weather overflows can be prevented before they occur.

#### 6.5.3 Raising Dams

As part of the assessment of the CSS which occurred in the late 1980's and early 1990's, MSD assessed the height of overflow dams at critical CSOs to determine if it was feasible to raise the level of overflow dams In an effort to increase the storage capacity of the CSS. Where feasible, MSD has raised the overflow dams to allow more flow to remain in the sewer; therefore, preventing the occurrence of dry weather CSOs. Refer to Section 3 (NMC 2) for additional information on these activities.

#### 6.5.4 Unusual Discharge Request Permit Constraints

One type of control utilized by MSD is a category of the Wastewater Discharge Permit (WDP) called the Unusual Discharge Request (UDR) Permit. The permit is typically used for one time, infrequent discharges of wastewater into the CSS that are not already covered by a wastewater discharge permit. This process is used for both permitted and non-permitted dischargers. UDRs include constraints on the volume of discharges to the CSS, as well as how and when discharges may occur. Refer to Section 4 (NMC 3) for more information pertaining to these activities.

#### 6.5.4.1 UDRs in Combined Sewer System

UDRs from facilities located in the CSS are scrutinized, and in some cases submittal of analytical testing of the wastewater is required. MSD utilizes the GIS system to locate CSOs that are downstream from UDR discharge points and determines the optimal discharge rate and volume requirements that allow the discharge to proceed without causing a dry weather overflow. Additional constraints may also be placed on UDR discharges so that negative



impacts to MSD facilities or the environment do not occur. Examples of such constraints include:

- Limiting the timeframe of the discharge;
- · Limiting the time of day/night a discharge may occur;
- Requiring the discharge to cease for some amount of time after a rain event to allow the system to return to normal; and
- Requiring treatment, capture and re-testing prior to discharge.

If MSD deems that the discharge should be monitored, either MSD personnel will be assigned to perform the monitoring, or the requestor will be required to monitor and provide the results to MSD. In addition, MSD may elect to periodically inspect the discharge site to ensure that discharge constraints and requirements are being followed.

#### 6.5.4.2 UDRs with other Utilities

MSD, in a joint effort with the local water utility, the Louisville Water Company (LWC), developed a Best Management Practices and Procedures (BMP&P) Program that addresses discharges from LWC activities. This program allows the LWC and MSD to work together to deliver highest quality water service and fire protection to the community while also preventing the occurrence of negative impacts to MSD facilities and overflows from the CSS. Both utilities reviewed their respective operational and maintenance activities during the development of the BMP&P. Implementation of the BMP&P involves continual communication between MSD and LWC during the planning and execution of water line/main repair, replacement and construction projects. This communication occurs at various levels of the organization. For example, engineers communicate in the early planning stages to develop site specific discharge constraints and field personnel communicate during the execution of the discharge to facilitate timely intervention if negative impacts are observed. A memorandum of understanding was developed in this joint effort between MSD and the LWC.

#### 6.5.5 Placing Requirements on New Users to the Combined Sewer System

As previously mentioned in Section 4 (NMC 3) of this report, MSD utilizes the Industrial/Commercial Plumbing Plan Review (I/CPPR) program, to identify targeted non-domestic dischargers during the building permitting phase for required pretreatment thereby insuring the installation of required pretreatment and/or BMPs during the construction phase rather than after the facility is built. This program allows MSD to identify a facility as a non-domestic discharger to the CSS, assess potential wastestreams from these facilities, and refer them for a wastewater discharge permit, if needed. New facilities in the CSS identified during the plan review process are required to implement BMPs or other measures to prevent the occurrence of dry weather overflows. Once the facility is built, MSD inspects to verify that the approved plan was followed.

#### 6.5.5.1 Requiring Pretreatment on Food Service Establishments (FSEs)

Food Service Establishments (FSEs) are a major group of non-domestic dischargers that receive scrutiny from MSD under the (I/CPPR) program. There are approximately 3000 FSEs in Louisville Metro. FSEs without proper pretreatment devices installed can discharge large amounts of grease to the sewer which in turn, can obstruct the sewer and cause an overflow. The I/CPPR program requires that new FSE facilities install a minimum 1000 gallon, double compartment, outdoor grease trap. Existing buildings in which the kitchen or greasy waste lines

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are not segregated from the restroom lines are allowed to install fixture traps on individual grease bearing devices such as a three-compartment sink.

#### 6.5.5.2 Requiring Hold and Release Capability on New Industrial Users

MSD may require new permitted non-domestic dischargers to the CSS to implement detention capabilities in order to implement hold and release strategies for entire process flows, as well as timing the release of particular batches of wastewater that have the potential to impact the CSS. These strategies would be initiated during and for designated periods of time following a rain event of a set magnitude. The magnitude of the rain event that triggers such strategies is based on modeling in the CSS. These strategies would be formalized as requirements in the facility's wastewater discharge permit and may include additional discharge constraints such as a maximum allowable discharge rate or volume, as well and reporting requirements such as documentation of discharge times and dates, and the total volume held/released.

#### 6.5.6 Fats, Oil and Grease (FOG) Program

The major objective of the MSD FOG program is to prevent the occurrence of dry weather CSOs resulting from the unregulated introduction of fats, oils and grease into the CSS. The program concentrates on three areas; installation of pretreatment in new construction of establishments that generate grease, enforcement on facilities causing a grease blockage in the collection system and preventive maintenance in areas of the collection system in which pretreatment is not feasible. Refer to Section 4 (NMC 3) of this document, and Section 2 of the CMOM Self-Assessment for more information pertaining to these activities.

#### 6.5.6.1 Reconnaissance and Preventative Maintenance of Collection System Hot Spots

Utilizing grease blockage service call data from Hansen, MSD has identified locations within the collection system, including the CSS that require periodic preventive maintenance (PM) activities such as flushing and/or vactoring to remove grease and debris. The targeted locations are ones in which the installation of pretreatment is not a feasible option and/or sewer configuration contributes to the buildup of grease. The objective of this combined CMOM and NMC initiative is to lessen the probability of dry weather CSOs due to grease blockages within the collection system, including the CSS. MSD will continue to monitor grease blockage service call data and will update the PM location list as needed. In addition, ongoing reconnaissance activities allow MSD to regularly adjust the PM schedule to optimize allocation of resources required to perform the PM activities.

## 6.5.6.2 Enforcement Follow-Up Activities on Grease Blockage Incidents in Collection System, including the CSS

As previously stated, FSEs cause grease blockages in the collection system, including the CSS. MSD investigates these types of incidents to determine the responsible party or parties that caused the grease blockage and conducts follow-up enforcement actions and requires proper pretreatment and/or BMPs to prevent future grease blockages and potential dry weather overflows.

The mechanism for this compliance review and follow-up is the MSD Hazardous Materials Ordinance (HMO). MSD utilizes personnel that respond to emergency incidents under the HMO also respond to grease blockages in the collection system, including the CSS. These blockages are treated as emergency incidents by MSD and as such, receive the same scrutiny under both the HMO and pretreatment program. Specifically, MSD is able to conduct a concurrent pretreatment compliance review at the same time as it reviews the incident under the HMO:



thereby addressing pretreatment related violations of the Wastewater/Stormwater Discharge Regulations (WDRs) which may have occurred. The introduction of grease into the sewer system in amounts that cause a blockage in the collection system, including the CSS, is a violation of MSD's WDRs. Therefore, facilities committing these types of violations are subject to escalating enforcement under the pretreatment program, as allowed by the WDRs.

#### 6.5.7 Backup Power at Critical Pump Stations

The evaluation of dry weather CSOs contained in Figure 6-1 determined that in the past 5 years there have been 12 dry weather CSOs due to power outages. Of these, 9 were at the Buchanan Street Pump Station (now Robert J. Starkey Pumping Plant), and 1 was at the 34<sup>th</sup> Street Pump Station. In 2006, stationary stand-by generators were added to both these facilities as required by the Consent Decree. The remaining two power outages were at the Nightingale Pump Station. One of these failures was due to a general power outage in the area, and the other was due to a maintenance shut-down by Louisville Gas & Electric (LG&E). LG&E failed to notify MSD in advance of the maintenance shutdown, resulting in this overflow. Discussions have been held with LG&E to confirm the importance of coordinating maintenance shut downs that affect MSD facilities, to allow placement of a portable generator prior to the shutdown.

#### 6.6 REPORTING OF DRY WEATHER CSOS

In the event that a dry weather CSO does occur, it will be reported to the Kentucky Environmental and Public Protection Cabinet Department for Environmental Protection - Division of Water (DOW) and EPA, per the provisions identified in MSD's Sewer Overflow Response Protocol (SORP).

In addition, customers may call the Customer Relations Call Center (CRCC) directly to report dry weather overflows from the CSS, or they may submit them online using the internet. In either case, a Customer Service Request (CSR) is logged into Hansen. The CSR is routed to the appropriate division to investigate and mitigate, if appropriate. In addition, work orders are initiated in Hansen, as needed to ensure that necessary repairs or clean up actions resulting from a dry weather CSO are performed.

Refer to MSD's SORP for more information pertaining to these activities.

#### 6.7 SUMMARY OF COMPLIANCE

MSD has implemented measures, for which it has the authority to do so, to prevent overflows from the CSS during dry weather. In addition, MSD immediately corrects the cause of unavoidable, non-recurring dry weather CSOs, if they should occur.

An evaluation of dry weather CSOs for the past 5 years indicates that the causes of most of the 31 discharges have been corrected or are under development. Overflows due to power outages (12) and mechanical failures (3) have been addressed with capital project modifications. One overflow was attributed to start-up issues with a new storage facility. The remaining 5 overflows were attributed to obstructions, which were addressed through MSD's operation and maintenance programs. USACE flood protection rules caused 10 of the 31 overflows. MSD is working with the USACE to modify the flood protection operating procedures to minimize this type of discharge. Refer to Section 5 (NMC 4) of this report for additional information related to these USACE activities.

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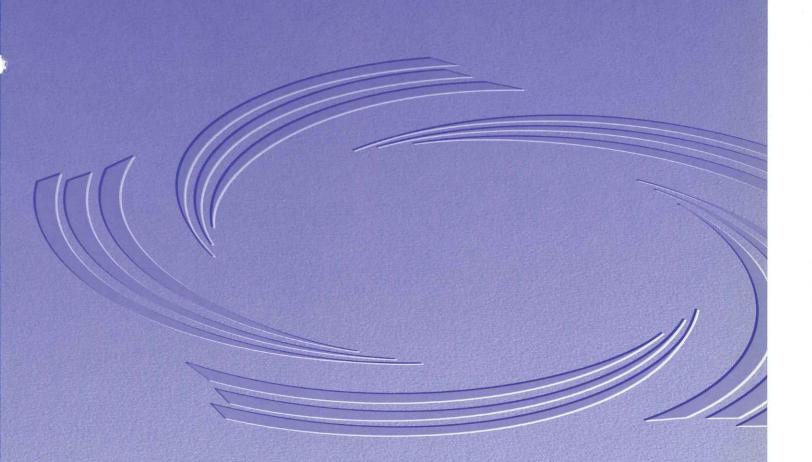
Work	Date	ASSET ID	ASSET DESCRIPTION	WORK	PROBLEM	VOLUME	CAUSE	ALL ALL ALLEYS	
Order	<u></u>	NUMBER	HODEN DESCRIPTION	ORDER	CODE	(gallons)	CAUSE	CLEANUP	REPAIR ACTIVITES
		A		ACTIVITY	CODE	(ganons)	1	ACTIVITIES	
				CODE	1				
183882	1/19/2001	MSD0308-FP	34TH STREET FLOOD	DISDW	POWER	4250	LG&E POWER	NO CLEANUP	LG&E RESTORED
			PS		<u> </u>		OUTAGE.	REOUIRED.	POWER.
183939	2/2/2001	CSO015	SOUTHWESTERN	DISDW	CAP	113625000	HIGH RIVER	NO CLEANUP	STATION WAS
			PUMP STATION				ELEVATION	REQUIRED.	PLACED BACK IN
							PREVENTED	•	SERVICE ONCE RIVER
							OPERATION OF		ELEVATION RECEDED.
100000							STATION.		
483280	5/25/2001	MSD0080-PS	SOUTHWESTERN	DISDW	MECH	35000000	MECHANICAL	NO CLEANUP	MSD MADE
							FAILURE OF BAR	REQUIRED.	APPROPRIATE
					i		SCREEN & WET WELL		REPAIRS.
100510				. 1			GATE.		
430749	10/27/2001	CSO015	SOUTHWESTERN	DISDW	MECH	288000	WEST BAR SCREEN	NO CLEANUP	MSD REPAIRED BAR
			PUMP STATION				AND EAST GATE	REQUIRED.	SCREEN AND GATE.
100=-1							MALFUNCTION.		
430774	6/3/2002	MSD0088-PS	BUCHANAN PS	DISDW	POWER	516000	LG&EPOWER	NO CLEANUP	A CAPITAL PROJECT
							FAILURE.	REQUIRED.	HAS BEEN INITIATED
					-		1		TO INSTALL BACKUP
					]		. [		POWER AT THIS PUMP
							] . [		STATION WITH AN
1									EXPECTED
1			4		]		1		COMPLETION DATE
									OF 2ND QUARTER
430781	6/2/2002	Marsone pa	7777777777777						2006.
430/81	6/3/2002	MSD0088-PS	BUCHANAN PS	DISDW	POWER	320000	LG&E POWER	NO CLEANUP	A CAPITAL PROJECT
1							FAILURE.	REQUIRED.	HAS BEEN INITIATED
					]		-		WHICH WILL
					1				CORRECT THIS
			[						PROBLEM. EXPECTED
									COMPLETION - 2ND
1	L	<u> </u>	<u> </u>		L		L		QUARTER 2006.

Work	Date	ASSET ID	ASSET DESCRIPTION	WORK	PROBLEM	VOLUME	CAUSE	CLEANUP	2000
Order		NUMBER	ADDLE DESCRIPTION	ORDER	CODE	(gallons)	CAUSE	ACTIVITIES	REPAIR ACTIVITES
				ACTIVITY	3322	<u> </u>		ACHVIIIES	
				CODE			}		
430783	6/27/2002	MSD0088-PS	BUCHANAN PS	DISDW	POWER	9000000	LG&E POWER	NO CLEANUP	A CAPITAL PROJECT
	-						FAILURE.	REQUIRED.	HAS BEEN INITIATED
								·	TO INSTALL BACKUP
									POWER AT THIS PUMP
					]				STATION. EXPECTED
									COMPLETION DATE IN
									2ND QUARTER 2006.
430886	8/21/2002	CSO186	SNEADS BRANCH	DISDW	STRUC	100	LEAK AROUND	MSD CLEANED THE	SNEAD'S BRANCH
			RELIEF #5		1 51260	100	INFLATABLE DAM.	AREA.	INLINE STORAGE
				4	]		THE DEFENDE DE LANG.	rucer.	PROJECT.
482987	5/11/2003	MSD0022-PS	NIGHTINGALE	DISDW	POWER	1312500	LG & E POWER	NO CLEANUP	LG & E RESTORED
							FAILURE.	REQUIRED.	POWER.
316982	10/16/2003	MSD0088-PS	BUCHANAN PS	DISDW	POWER	1900000	LG & E POWER	NO CLEANUP	POWER RESTORED
210550	44/0/2000						FAILURE	NECESSARY	
319578	11/9/2003	MSD0088-PS	BUCHANAN PS	DISDW	POWER	5800000	DOWN LG&E POWER	NO CLEANUP	LG&E POWER LINE
							LINE	NECESSARY	REPAIRED
320465	11/24/2003	MSD0308-FP	34TH STREET FLOOD	DISDW	FLOOD		FLOOD PUMPING PER	NO CLEANUP	STATION REMOVED
		1	PS		:		CORPS OF ENGINEERS	NECESSARY	FROM FLOOD
							MANUAL		PUMPING MODE ONCE
									RIVER RECEDED.
325334	1/4/2004	MSD0306-FP	17TH STREET FLOOD	DISDW	FLOOD	0	FLOODING	N/A	SURCHARGE TO
			PS						COMBINE SEWER PER
331786	2/9/2004	MSD0308-FP	34TH STREET FLOOD	DISDW	FIOOD	71.4000	OTLANOIDA (OTTO TA	2702 = 2 = 5	C.O.E INSTRUCTION
JJ1760	2/3/2004	1419170209-EL	PS PS	DISDW	FLOOD	714000	STATION PLACED IN FLOOD PUMPING PER	NONE NEEDED.	STATION TAKEN OUT
			rs				USACOE MANUAL.		OF FLOOD PUMPING
ļ	·	i	1				USACUE MANUAL.		MODE ONCE RIVER
									RECEDED.
337050	3/8/2004	MSD0303-FP	4TH STREET FLOOD PS	DISDW	FLOOD	0		NO CLEANUP NEEDED	NO REPAIRS
242050	4/16/2000	A AGENCAGO TO	ATTI OCTOPERA DI CONTRO	77/27/17	<del></del>		MANUAL		NECESSARY
342950	4/16/2004	MSD0303-FP	4TH STREET FLOOD PS	DISDW	FLOOD		STATION PLACED IN	NO CLEANUP	STATION REMOVED
	1	1 .					FLOOD PUMPING	NEEDED.	FROM FLOOD
						ļ	MODE PER USACOE		PUMPING MODE.
							MANUAL TO AVOID PROPERTY DAMAGE		
		ļ					AND FLOODING.		
	1	<u> </u>				1	AND FLUUUNG.	I	L

Work	Date	ASSET ID	ASSET DESCRIPTION	WORK	PROBLEM	VOLUME	CAUSE	CHELATIO	
Order	<u></u> .	NUMBER	LESSEZ DEDGER TIOIT	ORDER	CODE	(gallons)	CAUSE	CLEANUP	REPAIR ACTIVITES
				ACTIVITY	SONE	<u>TEMOUSI</u>		<u>ACTIVITIES</u>	
				CODE			•		
342889	4/18/2004	MSD0308-FP	34TH STREET FLOOD	DISDW	FLOOD		STATION PLACED IN	NO CLEANUP	STATION REMOVED
			PS				FLOOD PUMPING	NEEDED.	FROM FLOOD
1							MODE PER USACOR		PUMPING MODE.
							MANUAL TO AVOID		
							PROPERTY DAMAGE		
347731	5/3/2004	MCDAAAA DC	*************				AND FLOODING.		
		MSD0088-PS	BUCHANAN PS	DISDW	POWER	11200000	POWER OUTAGE	NO CLEANUP NEEDED	RESTORED POWER
348679	5/10/2004	MSD0088-PS	BUCHANAN PS	DISDW	MECH	3000000	GATE NOT OPENING	NO CLEANUP	CONTRACTOR MADE
257.500	5/20/2004						PROPERLY (STUCK)	NEEDED.	REPAIRS
353689	5/29/2004	MSD0303-FP	4TH STREET FLOOD PS	DISDW	FLOOD	0	STATION PLACED IN	NONE NEEDED	STATION REMOVED
				*			FLOOD PUMPING		FORM FLOOD
							MODE PER USACOR		PUMPING MODE.
353695	5/30/2004	MSD0308-FP	2 (77) ( 077) EFF 71 005	T. #6177 157			MANUAL		
333093	3/30/2004	M2D0308-F5	34TH STREET FLOOD	DISDW	FLOOD	0	STATION PLACED IN	NONE NEEDED	STATION REMOVED
			PS	1			FLOOD PUMPING		FROM FLOOD
		•					MODE PER USACOE		PUMPING MODE
373440	8/2/2004	CSO113	REGULATOR #6	DISDW	OBST	100	MANUAL	270377777777777777777777777777777777777	
	J. 200.	050115	REGOLATOR #0	DISDW	OBSI	100	SOLIDS HAD INLET	NONE NEEDED	FLUSHED LINE
379933	9/20/2004	MSD0303-FP	4TH STREET FLOOD PS	DISDW	FLOOD	0	BLOCKED MSD INITIATED	CLEANUP NOT	DEDITOR
				2132 11	12000	· ·	FLOOD PUMPING	NECESSARY	REPAIRS NOT
							ACTIVITIES PER	NECESSARI	NECESSARY.
İ							USACOE MANUAL TO		STATION REMOVED
}		Į					AVOID FLOODING		FROM FLOOD PUMPING MODE PER
1							AND PROPERTY		USACOE MANUAL
							DAMAGE		ONCE RIVER
380423	9/21/2004	MSD0308-FP	34TH STREET FLOOD	DISDW	FLOOD	0	STATION PLACED IN	NO CLEANUP NEEDED	NO REPAIRS NEEDED.
			PS			-	FLOOD PUMPING PER	The opposite the position of t	STATION REMOVED
					1		USACOE MANUAL TO		FROM FLOOD
					]		AVOID FLOODING		PUMPING MODE PER
					]		AND PROPERTY		USACOE MANUAL
							DAMAGE		ONCE RIVER
415609	11/8/2004	CSO113	REGULATOR #6	DISDW	OBST	100	HEAVY DEBRIS ON	CREEK INSPECTION	SCREENS HAVE BEEN
		1					SCREENS	#415350 - CLEANED	CLEANED
100455	10/0/2001	N COD COCC TO						SCREENS	
420445	12/7/2004	MSD0088-PS	BUCHANAN PS	DISDW	POWER	5160000	POWER OUTAGE	NO CLEANUP	MADE REPAIR LINE
							,	REQUIRED	BACK IN SERVICE AT
	<u> </u>	L							16:15PM 12/07/04

Work	Date	ASSET ID	ASSET DESCRIPTION	WODY	DDODLES	T/OT TILE			
Order	Date	NUMBER	ASSET DESCRIPTION	WORK	PROBLEM	<u>VOLUME</u>	CAUSE	CLEANUP	REPAIR ACTIVITES
Older		NUMBER		ORDER	CODE	(gallons)		<u>ACTIVITIES</u>	
				ACTIVITY					
423535	12/28/2004	MSD0088-PS	BUCHANAN PS	CODE	POWER	A+ 50000			
423333	12/20/2004	M2D0006-L2	BUCHANAN PS	DISDW	POWER	2150000	POWER OUTAGE	NO CLEANUP	MADE REPAIR THE
	- 1							REQUIRED	LINE IS BACK IN
427868	1/29/2005	CSO020	BUCHANAN STREET	DIGDIN	<del>  </del>	0===0000			SERVICE
427000	1/29/2003	C3O020	1	DISDW	POWER	87720000	LG & E POWER	NO CLEANUP	A PROJECT TO
		,	PUMP STATION SEE				OUTAGE.	REQUIRED.	INSTALL BACKUP
			604-12.1/2						POWER IS IN
			1						PROGRESS WHICH
							1		WILL CORRECT THIS
453302	5/6/2005	CSO113	REGULATOR #6	DISDW	OBST	200	I D BY LOVID LOVID CO.		PROBLEM.
123302	3/0/2003	C30113	REGULATUR#0	MOSICI	OBSI	200	UNKNOWN CAUSE.	MSD CLEANED THE	NO REPAIRS NEEDED.
506739	12/9/2005	CSO113	REGULATOR #6	DISDW	OBST	25	ODGEDIIGEIOL DI GEO	AREA.	
200.05	12,7,2005	650113	REGULATOR#0	DISDW	OBSI	25	OBSTRUCTION IN THE	WORK ORDER #506633,	· ·
1					į		DAM	MSD FLUSHED THE	MSD FLUSHED THE
								AREA	AREA TO REMOVE
				. 1					THE OBSTRUCTION.
544423	4/5/2006	MSD0022-PS	NIGHTINGALE	DISDW	POWER	42437500	LG&E HAD TO CUT	CI PARTIDATON	7.0% 2.55
		MODOULLAD	MOMMA	DISDW	FOWER }	42437300	OFF POWER TO	CLEANUP NOT	LGE RESTORED
								FEASIBLE.	POWER. MSD IS
							STATION TO MAKE		ADDRESSING THIS
							STORM RELATED		ISSUE WITH LG&E.
544688	4/10/2006	CSO120	REGULATOR #17	DISDW	OBST	50	REPAIRS. DEBRIS BLOCKAGE IN	MSD CLEANED AND	WORK ORDER #544472
				21025,1		50	THE LINE	ł	,
							THE DAME	DISINFECTED THE	MSD FLUSHED AND
								AREA AROUND THE	GOT OPEN
<u> </u>	I	1			L		<u> </u>	DISCHARGE SITE.	







## SECTION 7: NMC 6 - CONTROL OF SOLID & FLOATABLE MATERIALS IN COMBINED SEWER OVERFLOWS (CSOs)

#### 7.1 INTRODUCTION

The objective of this control is to minimize the amount of solid and floatable (S&F) materials that are discharged to the water bodies through CSOs wet weather discharges. The EPA Guidance for Nine Minimum Controls provides examples of controls which includes baffles, static screens, and racks for in-line controls; nets and booms/skimmer vessels for end of pipe controls and trapped catch basins as source control measures. The function of these devices is "to reduce if not eliminate visible floatables and solids," and from receiving waters.

#### According to EPA Guidance for NMC:

"CSOs: Guidance for Nine Minimum Controls" (EPA 832-B-95-007); EPA states in Section 1.6 that the NMC represent the "best available technology (BAT) economically achievable" or "best conventional pollutant control technology (BCT)" as determined on a "best professional judgment" (BPJ) basis. The NMC "do not require significant engineering studies or major construction, and can be implemented in a relatively short period (e.g. less than approximately two years)." EPA has also characterized this NMC as "measures that can reduce the prevalence and impacts of CSOs and that are not expected to require significant engineering studies or major construction."

Section 7 (NMC 6) of the NMC guidance document specifically addresses solids and floatables (S&F) control. Though NMC 6 specifically addresses control of solids and floatables (S&F), NMCs 1, 2, 4, and 7 can all reduce S&F discharges, as discussed respectively in Sections 2 (Operation and Maintenance of sewer-system components), 3 (Maximizing Collection-System Storage), 5.1 (Maximizing Flow to the Treatment Plant), 8.1.1 (Pollution Prevention via street cleaning), and 8.1.2 (Pollution Prevention via public education and community outreach programs, such as anti-littering campaigns).

Finally, the NMC guidance document states that the NMC should be implemented and integrated into the LTCP, which, based on monitoring conducted on a preliminary basis under the NMC, should describe the effectiveness of the NMC in reducing CSO impacts on receiving waters (Section 1.8). With respect to S&F control, Section 7 (page 7-1) of the NMC guidance document specifically states, "the LTCP will need to address the effectiveness of the [NMC] and evaluate other methods (e.g., swirl concentrators and mechanically cleaned screens) for removing solids and floatables."

#### 7.2 PROGRAM OVERVIEW

The MSD CSO area is extremely diverse in terms of zoning, land use, tree cover, vegetation, and topography. In order to apply the most effective S&F controls, MSD evaluated the various sub-areas within the CSO area, and referenced EPA guidance for planning and implementation of S&F controls.

In addition to the individual CSO controls, MSD, in conjunction with Louisville Metro Government, has employed several effective system-wide source controls, as well as in-line and end-of-pipe controls, to minimize the volume of S&F that are discharged to the water bodies within the CSO area. These controls are described in more detail in Section 7.5 below. Comprehensive stream evaluations have shown that S&F have been effectively controlled within the CSO area to a



degree that is comparable to the littered condition of areas upstream of the Combined Sewer System (CSS).

S&F Control within the MSD CSS is comprised of the following technologies: Low Impact Development (LIDs) initiatives, catch basins, modified regulators, in-line controls and end-of-pipe controls. A summary table showing the S&F control technologies currently in place for each CSO sub basin is shown in Figure 7-1.

After the installation of S&F control technologies, MSD evaluates controls programmatically and on a "per device" basis. MSD will continue to inspect and evaluate S&F technologies and make modifications or changes to address problems created by installation of controls and that may improve capture. When significant modifications are made for enhancement of performance or there is a change of applied technology they will be documented and included in the annual reports as outlined in the consent decree. MSD uses these evaluations to make installed devices more effective, and refine the decision making process for future S&F projects.

The remainder of this section shows the comprehensive measures that MSD and Louisville Metro Government employed to reach compliance with EPA NMC Guidance for S&F control.

#### 7.3 SYSTEM CHARACTERIZATION

To ascertain the possible causes, magnitudes, and potential solutions for S&F issues, it is necessary to characterize the CSO sub-areas tributary to impacted water bodies. Relevant characteristics of a tributary area include size, population, land use, and imperviousness. The same characteristics are also relevant for non-CSO tributary areas due to the potential of inputs from sources other than CSOs; this will be addressed in the next section. In order to accomplish this characterization, MSD reviewed current Louisville and Jefferson County Information Consortium (LOJIC) information and aerial photography, performed water body inspections, and reviewed previously reported information.

#### 7.3.1 CSO Area Characteristics

The CSO area has been broken down into three CSO regions; Beargrass Creek Region, Ohio River North Region, and Ohio River West Region. Relevant characteristics have been compiled for each of these regions and for each reach of stream within each region. Additionally, site visits and field inspections were performed to verify existing information and provide additional information related to potential S&F Control.

#### 7.3.1.1 The Beargrass Creek Region

The Beargrass Creek Region is the 7,914-acre area served by the CSS discharging to Beargrass Creek. This area serves a population of approximately 211,400 and is characterized by mixed land uses with a high concentration of residential and commercial development. The area has an imperviousness of roughly 40 percent and a relatively high portion (8.5 percent) of tree cover. Experience with S&F controls previously deployed in this area has shown that the combined sewage contains a high concentration of organic material that has a tendency to mat and clog screen-type devices. The area includes 1400 acres of parkland encompassing several highly utilized Metro parks. Additionally, some contact recreational uses of the creek have been reported, although these uses are not supported by the park system.

Beargrass Creek is made up of three substantially different forks: South Fork, Middle Fork and Muddy Fork. Approximately 2.7 miles of the downstream portion of South Fork is channelized,

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with vertical concrete walls and a keyed concrete bottom. Upstream of the channelized segment, South Fork extends about 3.3 miles through the CSO area. There are 45 CSOs permitted to discharge to South Fork within the 4,717 acre CSO sub-area tributary to it. Upstream of the CSO sub-area lays an additional 12,563 acre drainage area which is served by a separated sewer system. Field surveys just upstream of the limits of the CSO area indicate that floatables are present in South Fork upstream of the CSO area as well as within the CSO area. The surveys also found localized stream bank erosion which supports reports of sedimentation problems the extreme downstream reaches of the creek, near the confluence with the Ohio River.

Middle Fork and Muddy Fork are not channelized as extensively as South Fork. Middle Fork runs about 4.4 miles to the upstream reach of the CSO area and contains 8 permitted CSOs. The primary land use for this tributary area is residential. Middle Fork drainage basin includes 2,481 acres of CSO area and 13,583 acres of separately sewered area.

Muddy Fork runs about 0.1 miles through the CSO area and contains 3 permitted CSOs just upstream of the confluence with South Fork. The Muddy Fork drainage basin land use is categorized primarily as undeveloped and residential. The basin includes 716 acres of CSO area, and 4,916 acres of separately sewered area. The lack of development is reflected in Muddy Fork's much lower volume of floatables.

#### 7.3.1.2 The Ohio River North Region

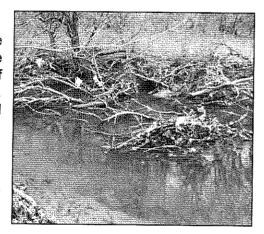
The Ohio River North Region contains a majority of the downtown area, and therefore serves mostly commercial development. The total drainage area of 1,943 acres has a relatively high level imperviousness. This is a disadvantage to the area in that it may increase the volume and velocity of stormwater flows. On the other hand, tree cover in this region is limited which means less organic material is available to enter the system.

#### 7.3.1.3 The Ohio River West Region

The Ohio River West Region is the largest of the three CSO regions, representing a total of 11,051 acres. The Ohio River West Region contains a combination of industrial, commercial, and residential development. Imperviousness is moderate, averaging 43 percent, and tree cover is low, averaging 0.07 percent.

#### 7.3.2 Compilation and Evaluation of Sewershed Data

Figure 7-2 shows the database input screen that was developed for compiling the S&F information for each CSO and its corresponding area. Figure 7-3 shows the maps that were developed with information for each CSO sewershed, including zoning, aerial photographs, and



Middle Fork of Beargrass Creek in the CSO area.

land use. These maps help determine the characteristics of a sewershed and the appropriate control technologies to deploy.

Determining the characteristics of individual sewersheds is one of the first steps in developing appropriate S&F control options. For example, previous experience with screen-type S&F control technologies have indicated that they frequently become clogged with mats of organic material when deployed in certain locations. More specifically, these are areas that are

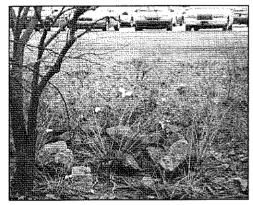


characterized by high tree cover and/or other sources of vegetative matter. Therefore, screen-type technologies are not as appropriate or effective when deployed in these locations. This example shows the importance of characteristic analysis when developing S&F control strategies.

### 7.3.3 Characteristics of Areas Upstream of CSO Area - Identification of Upstream Solids and Floatables

In January 2005, a comprehensive field evaluation of the streams within the CSO area was performed to ascertain the volume of visible S&F, and to determine the volume of floatables entering the water bodies upstream of the CSO area. The comprehensive field evaluation was performed by walking the banks of the every reach of Beargrass Creek, documenting with pictures and notes regarding solids and floatable issues. The evaluation was detailed in a memo. This evaluation led to a determination that many of the floatables in Beargrass Creek enter upstream of the CSS as a result of stormwater issues and litter

problems. This is evidenced by the observation that in many areas S&F are more visually apparent upstream of the CSO area than they are within the CSO area.



Middle Fork of Beargrass Creek at Oxmoor Mall (outside of CSO area).

MSD is working through these issues as part of the Municipal Separate Storm Sewer Systems permit.

As noted in 7.3.1.1, the upper reaches of Beargrass Creek flow through separately sewered areas prior to reaching the CSO segments that make up the Beargrass Creek Region. S&F discharged to Beargrass Creek from these upstream areas represent one source of these pollutants to the stream.

Approximately 22 miles, or 78%, of South Fork and its tributary streams drain 12,563 acres upstream of the CSO area. Approximately 36 miles, or 89%, of Middle Fork and its tributary streams drain 13,583 acres upstream of the CSO area. These non-CSO areas are made up of primarily residential and undeveloped land, but there are concentrated areas of commercial usage along the downstream portions of these non-CSO areas. Field inspections immediately upstream of the limits of the combined area indicate that floatables are present in South Fork and Middle Fork upstream of the CSO area and this area may represent significant sources of S&F to the waterway.

Approximately 12 miles, or 99%, of Muddy Fork and its tributary streams drain 4,916 acres upstream of the CSO area. This non-CSO area is mostly residential



Middle Fork of Beargrass Creek in St. Matthews (outside of CSO area).

and undeveloped land, and there is minimal commercial usage. Based on field reconnaissance, it does not appear that S&F from this upstream area represents a significant source to the waterway.



Figure 7-4 shows the commercial development in Jefferson County and its relation to the streams and Ohio River. Based on these observations, it is apparent that the control of S&F within the CSS would not eliminate the problem of littering and non-point sources that enter the creek upstream. Figures 7-5 (a-f) highlight stream bank litter situations at various locations inside and outside of the CSO area.

#### 7.3.4 CSO Solids and Floatables Screening and Ranking

Building upon the evaluations conducted during the early and mid-90s, MSD developed a draft procedure to provide a severity ranking of the many CSO outfalls within the CSS to identify which areas to place first-priority focus CSO Long Term Control Plan efforts. This screening and ranking process was based upon the EPA Guidance Document "Combined Sewer Overflows Guidance for Screening and Ranking," EPA 832-B-95-004, dated August 1995 (hereafter EPA S&R Guidance). Under the direction of this document, CSOs were screened and prioritized based upon criteria identified as most likely to cause significant adverse impact on the environment and the community. Those CSOs identified as having the potential for greater impacts on streams and residents, received the highest overall ranking. Many criterion under a broad range of categories were used including the 2004 303 (d) List of Waters for Kentucky (Final Draft), USGS Streamflow Statistics for Kentucky, KPDES permit information, CSO Program modeling data, and USGS Stream data.

As part of the implementation of S&F controls, the CSO Screening and Ranking procedure was refocused on criterion that would impact S&F control. Three criteria are utilized in this procedure to rank the CSOs. These criteria include stream flow values; accessibility of the outfall/receiving stream by the public; and other important, subjective factors including impact to quality of life and areas of public interest. The screening and ranking consists of a process in which points can be assigned for the various attributes within each criterion. A discussion of the criteria is provided below. As the stakeholder and public involvement efforts increase during the development of the LTCP, the weightings may be adjusted and additional criteria will be added. Ratings will be assigned to each CSO relative to its contribution to the solution matrix.

In addition to the screening and ranking prioritization, the EPA CSO guidance was utilized to address the issue of CSOs with the highest number of overflows per year. Furthermore, the frequency of discharges for each CSO location not scheduled for RTC or a capital project were investigated, and six CSO Long Term Control Plan capital projects for solids and floatables were added based upon this analysis.

#### 7.3.4.1 Example Criterion - Proportion of Receiving Stream Flow to CSO Flow

This criterion assigns points to a CSO based on the relationship between the average annual stream flow rate and the average CSO flow rate. The greater the contribution of CSO discharge to the stream, the more likely the stream will sustain impacts.



Points may be assigned in the following way:

Description	<b>Priority Points</b>
CSO Contributes > 50%	50
CSO Contributes between 25% and 50%	30
CSO Contributes < 25%	10

The published <u>USGS Streamflow Statistics for Kentucky</u> was used in conjunction with MSD's stream gage network to develop average annual flow values for locations within Louisville Metro. MSD's monitoring network in the Beargrass Creek watershed consists of five locations with stream flow gage readings every 5 minutes.

#### 7.3.4.2 Example Criterion - Accessibility to an Impaired Water Body

Since boating is a common recreational activity along the Ohio River within Louisville Metro, boaters' access to water bodies in which CSOs contribute were assessed. The points for this criterion are based on the likelihood of human contact with impaired water bodies. It has been determined that the area along the Ohio River upstream of the Second Street Bridge has an increased opportunity for human contact with impaired water bodies. This is an unintended consequence of the success of Louisville Metro's riverfront park and its attraction to the community. Areas between the Second Street Bridge and the Sherman Minton Bridge are less likely points of contact due to the treacherous terrain of the riverbed at this location and restricted access because of dangerous barge traffic. Other streams and improved channels within the CSO area have been determined to be unlikely points of contact, with the exception of streams in Cherokee Park.

The points were assigned in the following way:

Description	Priority Points
Likely Access	40
Unlikely Access	20
No Access	0

#### 7.3.4.4 Example Criterion - Quality of Life

There are certain CSO "hot spots" or areas of current public interest within Louisville Metro. These include specific locations within the CSO area such as the streams in Cherokee Park, the Fischer's site, the Girl Scout Headquarters site, the Greenways around Letterle PS, and the River Metals site. Because of the public interest and the potential for human contact with the streams in these areas, CSOs near each of these hot spot locations were assigned seventy (70) points.

#### 7.3.4.5 Solids and Floatables Screening and Ranking Map

A map was developed by MSD to determine high priority areas based upon the results of the S&F screening and ranking. Figure 7-6 depicts the CSO sewersheds and their corresponding screening and ranking score. The CSO sewersheds with higher scores (shown in red) represent the highest priorities based on the ranking exercise. Grayed or blacked out areas represent CSO areas that are eliminated, will be eliminated, or have minimal overflows (thus becoming a short-term candidate for elimination). The draft solids and floatables screening and ranking table is included in Supplemental Information item 7-1 of the June 3, 2006 NMC Compliance Report submittal.



#### 7.4 SOURCES OF SOLIDS AND FLOATABLES

#### 7.4.1 Sources of Solids and Floatables

Figure 7-7 (HydroQual, 1992) shows the sources of S&F, in order from the greatest amount of material deposited in the system (and removed) to the least amount of materials deposited (and removed). The volumes released into the system at the source and the volumes captured from the system prior to discharging into the stream decrease from left to right across this figure. It is notable that the largest source of floatables is pedestrian street litter.

S&F sources from the street include litter, automobile debris, roadway grit, and trash. The S&F source for direct to catch basin debris is primarily pedestrians. Solids and floatable materials that are flushed down the drain or toilets within a home, office, or industrial site will enter the combined sewer and may be discharged to the stream during an overflow. The final source for S&F in a stream or river is through direct littering to the water body, through depositing litter at the creek or by S&F material being carried by runoff to the creek.

As noted in Section 7 (page 7-13) of the "CSOs: Guidance for Nine Minimum Controls" (EPA 832-B-95-007); most solid and floatable materials are comprised of various forms of street litter. Although wastewater solids and floatables are less prevalent within combined sewer overflows, it is acknowledged that these sources are the most objectionable, and thus must be addressed.

#### 7.5 SOLIDS AND FLOATABLES PROGRAM COMPONENTS

#### 7.5.1 Source Controls Applied in System

#### 7.5.1.1 Street Sweeping

Louisville Metro Government performs street sweeping on all streets within the CSO area. The central business district is scheduled to be swept at least one time per day; all streets outside of the central business district are scheduled to be swept quarterly. Approximately 4,000,000 lbs of litter, debris, and other forms of floatables are removed by street sweeping every year. Figure 7-8 shows the coverage area of the street sweeping operations in Louisville.

#### 7.5.1.2 Proper Disposal of Solid and Floatable Materials

As detailed in Section 7.4.1, S&F originate from several sources. Louisville Metro offers litter collection and pick up as an effective means of source control. This is described in Section 8 (NMC 7).

Additionally, MSD is currently working with the Louisville Metro Health Department to develop a program to address sanitary items, their proper disposal, and public education. Prophylactics and various hygiene products could cause a health risk if human contact occurs. If an overflow occurs as a result of a rain event, materials that have been flushed can be discharged to the Ohio River or Beargrass Creek. This program will act as a supplement to CSOs with storm source controls in place.



#### 7.5.1.3 Catch Basins

Studies in New York City (*HydroQual, 1993, 1994*) have shown that catch basins can be effective at retaining floatables and solids and preventing these materials from entering the sewer system. These studies have shown that certain catch basin characteristics influence their effectiveness at retaining the materials.

With respect to floatables, one important characteristic of a catch basin, is whether or not it is equipped with a "gas hood," as shown on Figure 7-9. Originally designed to prevent gases from escaping the sewers, gas hoods have been found to effectively prevent floatables from entering the sewers. The overall ability of a particular catch basin to retain floatables is a function of a number of factors including, the opening size of the grate, the presence of an open curb piece, the depth of the sump, the orientation of the outlet pipe relative to the inflow, as well as the presence of a gas hood. With respect to heavier solids, other studies (USEPA, 1977 [EPA 600/2-77-051]) have shown that catch basins can be effective at retaining this material if equipped with sumps of sufficient depth. Tests on cylindrical catch basins with a 4' diameter, a 4' sump depth, and a 1' outlet pipe were conducted with inflows of 900 gallons per minute. The water laden with graded sand did not exhibit solids "breakthrough" until the sump was approximately 55 percent full. This fill depth is equivalent to a clear depth of about 26" below the outlet pipe.

Approximately 60 percent of existing catch basins within MSD's CSSare hooded. This is summarized in Figure 7-10. According to the New York studies hooded catch basins capture roughly 80 to 90 of the S&F material.

MSD routinely cleans approximately 30,000 catch basins in the CSS per year. Catch basins are cleaned using a clamshell bucket and a Vactor truck, and are occasionally cleaned by hand. Cleaning is conducted in a manner that minimizes the possibility that accumulated leaves, litter, and sediment can enter the sewer system. Collected debris is sent to the local landfill. Additional maintenance and/or cleaning is performed as needed in between these scheduled cleanings.

#### 7.5.2 In-Line Controls Applied in System

In-line controls are defined herein as sewer system controls that concentrate pollutants in the combined sewage retained in the system rather than in the combined sewage that overflows to the receiving waters. Typically, these controls must be placed near and upstream of system regulators so that concentrated pollutant streams can be diverted to the sewer system. A CD documenting the solids and floatables controls installed in the Combined Sewer System is presented in Figure 7-11.



MSD cleans a catch basin with a clamshell bucket.

#### 7.5.2.1 "Cyclone" Rotating Drum Screens

Ten sites within the CSS currently employ the use of Cyclone rotating horizontal drum screens mounted to the

Cyclone rotating horizontal drum screens mounted to the diversion dam. When the rain event begins and water levels in the system rise above the weir height, water enters the Cyclone through the drum's perforated wall or screen and simultaneously causes the drum to rotate as the water is deflected by vanes on the drum interior. This rotating motion discourages blinding of the drum perforations to keep floatable material on the "interceptor" side of the device. The floatable

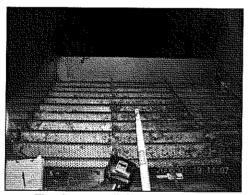


solids are retained and conveyed to treatment when the water levels return to normal. The device requires no outside power source, but the 6 mm perforations are susceptible to clogging when subjected to high concentrations of leaves or other organic materials. If the water level rises above the drum; flow bypasses the drum, relieving the condition, and avoiding a potentially serious backwater condition. When this happens, any floatables that had been retained behind the cyclone are released with the CSO waters into the receiving stream. According to the United Kingdom Water Institute Research, Limited (UKWIR) "CSO Screen Efficiency (Proprietary Designs) 1997-2001" the efficiency /capture of the cyclone is 27%.

Design procedure for cyclones included the development of a design capture rate, an assessment of the impacts of the installed device on the hydraulic grade line and potential for basement backups, and an evaluation of the CSO diversion structure or regulator parameters for configuration of the cyclone for maximization of capture. MSD and the manufacturer worked together to develop the screen open area required to attain the design capture rate, and develop specifications for the device.

#### 7.5.2.2 "Wave Screen" Static Screens

Five CSO sites currently utilize wave screens mounted to the diversion dam. These are fixed screens whose surface follows a wave pattern designed to maximize screen surface area while minimizing clogging of the approximately 6 mm perforations. Each screen is mounted horizontally just below the crest of the diversion weir and extends from the diversion weir upstream to a point where a vertical plate extends upward to the same elevation as the diversion weir. During an overflow event. flow passes up through the screen, leaving solids on the underside of the screen. At the end of the event, the water between the top of the diversion weir and the screen "backwashes" through the screen to help floatable solids drop back into interceptor flow and on to the treatment plant. Initial performance evaluations of these units indicate that they may be susceptible to clogging with leaves and other organic matter. In the event that water overtops the crest of the diversion weir, flow will relieve itself without causing a backwater condition and without losing solids retained up to that point in time. However, S&F will become deposited on the top side of the screen requiring additional maintenance. According to UKWIR the efficiency /capture of the wave screen is 55%.



Wave Screen installed in MSD CSO area.



CDS Unit installed in MSD CSO area.

The general design procedure utilized for wave screen installation included the development of a design capture rate, an assessment of the impacts of the installed device on the hydraulic grade line and potential for basement backups, and an evaluation of the CSO diversion structure or regulator parameters for configuration of the screen for maximization of capture. MSD and the manufacturer worked together to develop the screen open area required to attain the design capture rate, and develop specifications for the device.



#### 7.5.2.3 CDS Units

MSD currently applies Continuous Deflective Separation (CDS) technology at two locations within the CSS. One unit is located in the Beargrass Creek Region at CSO 108, and experiences high organic flow. The second unit is located in Downtown Louisville at CSO 050 (The Ohio River North Region) and receives flow with little organic content.

CSO 108 within the Beargrass Creek Region currently features twin off-line CDS (continuous deflective separation) units for treatment of S&F. CDS technology features the introduction of flow into a cylindrical vessel that has a static cylindrical interior screen. This interior screen has directional perforations that require the flow to turn backward against the prevailing current direction in order to exit the unit; this feature minimizes the susceptibility of the screen to clogging.

The CDS unit at CSO 108 has provided an opportunity to evaluate the technology in an area with high concentrations of organic flow from grass clippings, leaves, mulch, etc. Issues with screen blinding and washdown operations at the site have given MSD the opportunity to experiment with the unit. Adjustments or reconfigurations have been made to the unit's programming, screens openings, washdown system, ultrasonic level sensors, inlet nozzles, and pump configurations. MSD continues to work through issues at this CSO to successfully control S&F.

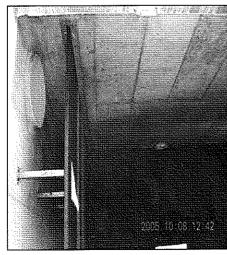
CSO 050 is within the Ohio River North Region of the CSS. This CSO contains a CDS unit with a single barrel and sump, in lieu of a pumped underflow. This CSO is located in the Central Business District of Louisville, and therefore contains few trees and organic materials. Due to fewer organics, the screens at this CDS unit are self cleaning, and experience less frequent blinding. Maintenance costs and resources to operate and maintain this CDS unit are more manageable than the unit at CSO 108. According to UKWIR the efficiency /capture of the CDS unit is 95%.

The existing CDS units within MSDs CSS are large-scale units. At CSO 108, there are two 8 foot diameter units with a total screening capacity of 34 CFS and at CSO 50 there is one 5 foot diameter unit with a capacity to handle the typical year peak rate of 21 CFS. These units were design to handle 85 – 90% of the average annual capacity of the CSO. The detailed design was coordinated CDS Technologies.

#### 7.5.2.4 Baffled Vaults

Two locations in the CSS currently use baffled vaults for S&F control. These facilities were designed to treat flow passing over the existing diversion dam and thereby minimizing the discharge of S&F to the receiving water. The vault length and baffle were designed to allow floatables to rise with the waters yet be retained behind the baffle until after the event has subsided, at which time the S&F are returned via an underflow pipe to the interceptor for conveyance to the treatment plant.

Baffles do not have the small openings characteristic of screen-type controls. Therefore, they are not susceptible to the clogging and maintenance problems associated with those types of controls. Operation of the two recently



Baffle System installed in MSD CSO area.

installed units will help to determine any unexpected, locally-influenced, operational issues. According to HydroQual studies the efficiency /capture of the baffle vault is 94%.

The general design procedure for baffled vaults included an assessment of the site for placement of the vault, hydraulic calculations to size the vault and baffle to maximize solids and floatables capture, and an evaluation of head losses across the baffle to prevent upstream basement backups and flooding.

#### 7.5.2.5 Retrofit Baffles

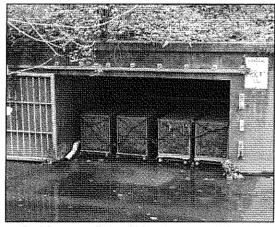
Underflow baffle facilities are designed to treat flow passing over the existing diversion dam, thereby minimizing the discharge of solids and floatables to the receiving water. The baffle is designed to allow floatables to rise with the waters yet be retained behind the baffle until after the event has subsided, at which time the solids and floatables are returned via an underflow pipe to the interceptor for conveyance to the treatment plant.

This technology has been used extensively within MSD's combined sewer system. Each installed underflow baffle was designed to site specific requirements and was unique to the configuration of the combined sewer system in the area of each CSO. Field investigations were conducted at each CSO to assess the applicability of an underflow baffle before detailed design was conducted.

The general design procedure for retrofit baffles included an assessment of the existing diversion structure configuration and parameters, applying peak flows for the typical year and design storms to ascertain capture percentages, and determining the head loss due to the baffle installation and the impact on the hydraulic grade line. Baffles were sized and configured to capture the 5-year event without impacting areas upstream or causing basement flooding.

#### 7.5.2.6 Retrofit Screens

A retrofit screen is similar to a bar screen or trash rack, mounted on the dam. These screens were installed within the sewer upstream of the CSO and within the existing manhole structure. The screens are constructed of steel rods\_with a steel angle frame. Unlike the underflow baffles, these screens do not have a "self cleaning" mechanism. Therefore, captured solids and floatables will be removed by MSD as part of the CSO inspection and maintenance activities. Accumulated solids and floatables on the simple screen will affect the hydraulic capacity of the sewer as they will be subjected to screen blinding. To account for this, the design condition definition included an assumption that the screens were 100% blinded.



Steel Cages installed on CSO in the Improved Channel Of Beargrass Creek.

The general simple screen design process included an evaluation of the existing diversion dam and structure for potential placement of the screen, hydraulic calculations for the typical year and design storms to maximize screen height for the 5-year peak flow capture without impacting areas upstream with basement backups. The final consideration when implementing a screen was the access to the device for cleaning and maintenance. Screen retrofits were designed to allow MSD to remove floatables from the bars ack into the interceptor for treatment.



#### 7.5.3 End-of-Pipe Controls

#### 7.5.3.1 Cages

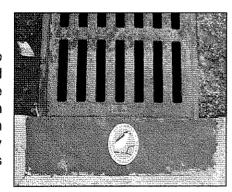
End-of-pipe (EOP) controls are defined herein as controls designed to remove floatable solids from CSOs at the point of discharge to the receiving water. Typically, EOP controls accumulate materials during wet-weather periods and must be cleaned periodically to maintain their effectiveness.

At three CSO outfalls, cages are used to capture floatables at the end of the pipe. These steel cages are essentially rigid, rectangular nets with 1/2" openings that filter the water as it is being discharged. During wet weather events, the cages fill with floatable solids that cannot pass through the openings. MSD periodically cleans the cages and disposes of the solids. These cages were developed to replace netting devices that proved to be cumbersome to handle and susceptible to tearing and spilling. According to UKWIR the efficiency /capture of similar devices (in-line netting) is 93%.

As stated above, the steel cages are an evolution and modification of the previously installed net bags from Fresh Creek Technologies (http://www.freshcreek.com). The net bags were removed and replaced because of maintenance issues. These CSOs are exposed to lengthy periods of being underwater while the Ohio River is in flood stage. The original net bag installations were designed by Fresh Creek Technologies. Their standard designs are based upon the limiting parameters of flow (Q) and velocity (V). These parameters are established through use of the hydraulic model for each CSO. As a rule of thumb, Fresh Creek recommends using 2 cubic feet of floatables per million gallons of CSO or Stormwater flow. Upon removal of the net bags, MSD maintenance personnel utilized the basic size of the net bags as a rule of thumb for sizing the steel cages. The steel cages were fabricated by MSDs inhouse maintenance staff to function similar to the netting devices originally installed at the three CSO locations.

#### 7.5.4 Watershed Efforts

MSD, through partnering efforts with Louisville Metro Government and other community organizations has provided opportunities for residents to take ownership of the watersheds. Programs have included public education on littering and personal impacts on the waters of Jefferson County. Through these efforts, S&F are most actively controlled at the source, thus allowing MSD to utilize its resources more efficiently.



Marked Catch Basin in MSD CSO area.

#### 7.5.4.1 Bus Shelter Clean Sweeps

Bus Shelter Clean Sweeps are described in detail in Section 8 (NMC 7).

#### 7.5.4.2 Adopt a Highway

Adopt-A-Highway/Green Mile programs are described in detail in Section 8 (NMC 7).

#### 7.5.4.3 Public Education and Outreach

Public education and outreach is described in detail in Section 8 (NMC 7).

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#### 7.5.4.4 Catch Basin Signage

MSD has initiated a program to mark all catch basins within the Beargrass Creek watershed with a logo that reads "No Dumping: Drains to Beargrass Creek." These markings are part of an education program to inform the public that litter and debris have the potential to discharge to the creek when it's carelessly discarded on the ground or the pavement.

#### 7.6 SITE SCREENING FOR VIABLE S&F CONTROL TECHNOLOGIES

A *draft* screening progression was developed to document the appropriate application of S&F technologies in the CSS. This screening procedure is straightforward and applicable for the entire system. The process was utilized for the effort of installing S&F devices throughout the CSS. See Figure 7-12 for the screening process chart.

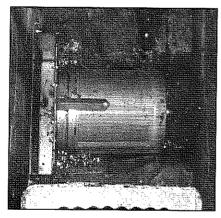
The first component of the process chart is to gather data and make site assessments for each CSO If the CSO does not have an existing solids and floatables control, is not a component of an LTCP project that would eliminate overflows the diversion structure would be assessed for a baffle retrofit due to the simplicity and ease of maintenance of those devices. If a baffle could not be retrofit, a screen retrofit was evaluated. If these devices could not be installed at a CSO it was then designed with a more advanced mechanical device or maintenance intensive end-of-pipe screening. All CSOs are to be observed post installation for possible modifications to improve efficiency or prevent upstream impacts.

#### 7.7 PERFORMANCE ASSESSMENTS AND EFFECTIVENESS SUMMARY

## 7.7.1 NSF International/Environmental Technology Verification (ETV) Verification of the CDS Unit at CSO 108

NSF partnering with ETV and EPA approved a generic verification protocol (Moffa & Associates, 2001) for vortex separation to be used to test and sample the CDS unit at CSO 108, in the Beargrass Creek Region. This protocol was established to achieve the goals of ETV to evaluate the performance of innovative and commercially available environmental technologies; provide objective information about technology performance to permit writers, buyers and among others; and facilitate "real world" implementation of promising technologies. Using this protocol, the wet weather sampling effort at CSO 108 took place over three years, and provided MSD the information to

adjust parameters of the device, including programming and screen configuration, to best capture S&F at this site.



Rotating Drum Screen in the Ohio River North Region.

#### 7.7.2 Site Visit Evaluation Work of 2005

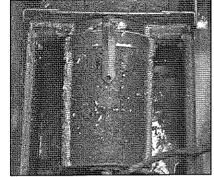


During certain rain events in 2005, an assessment and evaluation of the performance of various CSOs with installed S&F control technologies were performed. The assessments focused on the overall performance, screening operation (if applicable), and "self-cleaning" characteristics of each S&F device installed. Observations were documented for each site.

Photographs and video were recorded during the operation of selected S&F devices. It was observed that screened technologies were more effective in the more urbanized areas of the

CSS, where the presence of leaves and other organic material was minimal. The top photo on the right shows a Cyclone (6 mm screen opening) operating in the downtown area. Note that the metal of the screen is visible and clean, inferring that the self-cleaning mechanism has been effective.

The bottom photo was taken during a rain event at a Cyclone (6 mm screen opening) site in The Beargrass Creek Region of the MSD CSS. The photo shows that a dense organic material has adhered to the outside of the cyclone, preventing it from screening floatables and rotating to self-clean.



Rotating Drum Screen in the Beargrass Creek Region.

Utilizing the documented observations from the site evaluation work, MSD started a process to determine which technologies

would be more effective at which CSO sites within the service area. MSD will utilize the information and observations gathered during the evaluation to make improvements to installed S&F controls, as well as refine the decision making process for future technology applications.

#### 7.7.3 Summary Of Catch Basin Cleaning

MSDs Infrastructure and Flood Protection division routinely cleans the trapped basins in the CSS. Amounts of material removed are documented as part of the HANSEN work order system. The total amount of materials removed from catch basins in MSD FY06 was 6,092 CY.

#### 7.8 COMPLIANCE SUMMARY

As depicted in Figure 7-1, every CSO sewershed has at least two forms of S&F control in place. Those CSOs ranked per EPA Screening & Ranking Guidance as being of highest priority have a minimum of three controls in place. However, MSD believes it will better meet the requirements of NMC 6 by applying source controls, installing in-line controls, coordination with the Health Department on proper disposal of items, installing other BMPs, expanding public education and cleaning initiatives, and other methods to effectively prevent S&F from reaching the receiving waters of Louisville Metro (based upon the screening and ranking criteria from the EPA guidance) by no later than September 30, 2006.

As detailed in the Interim CSO LTCP, MSD is continuing to implement its LTCP by completing construction of seventeen additional solids and floatables control devices by the end of 2008.

#### 7.8.1 Solids and Floatables Summary

Figure 7-1 and Figure 7-11 are a presentation of the controls that have been installed within the CSS to date. MSD will continue to evaluate and improve the controls in place in accordance with the results of site on-going site assessments. Figure 7-13 presents the controls in-place in a tabular format, listed by CSO number.



#### 7.8.2 Summary of Estimate for Solids and Floatables Removal

Figure 7-14 is a presentation of the controls in place at each CSO and the corresponding efficiencies and removal percentages for these controls. The estimated solids and floatables removal per CSO is 86%%.

#### 7.9 LISTING OF SUPPLEMENTAL INFORMATION

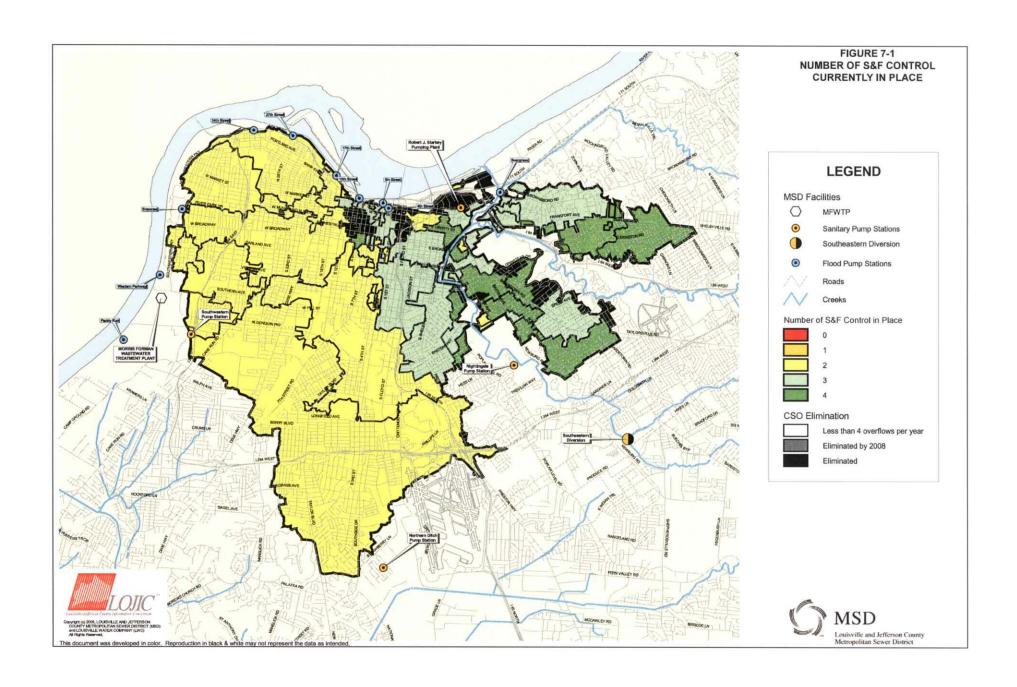
#### **Guidance Checklist**

Has the permittee:

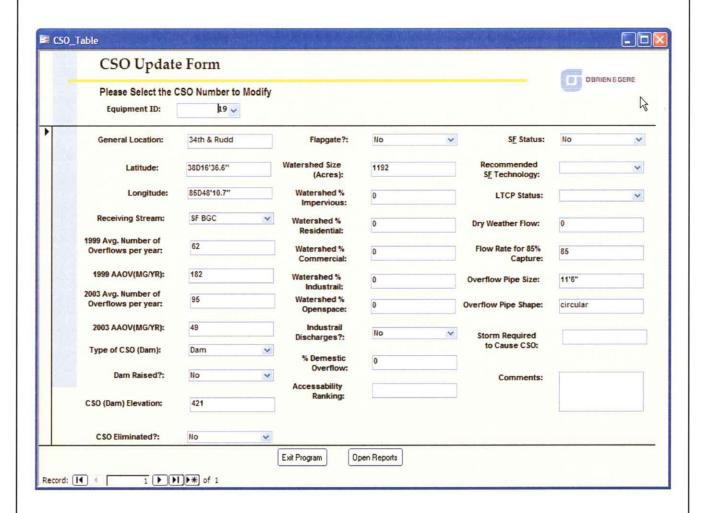
- 1. Evaluated the following technologies for the control of solid and floatable materials in CSOs:
  - a. Screening materials using baffles, screens, and netting? Section 7-6
  - b. Skimmer boats? N/A
  - c. Skimming from water body surface with booms at outfalls in confined areas?N/A
  - d. Source control, which may be addressed under the pollution prevention program for CSO outfalls? Section 7.5.1
- 2. Identified and addressed problems that may be created by the installation of the control technology? Section 7.5
- 3. Implemented the appropriate control technology, considered and provided justification that the technology, considered and provided justification that the technology is appropriate for the site conditions, and is conducting associated inspections and regular maintenance? Section 7.5, 7.6, and NMC Section 2

#### **NMC Guidance Documentation Requirements**

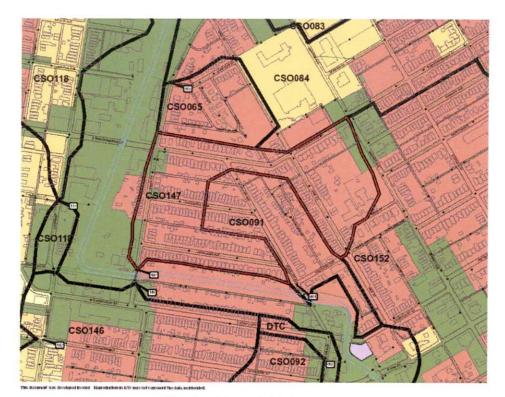
- 1. 1 Engineering evaluation of procedures or technologies considered for controlling solids and floatable. Section 7.5
- 2. Description of CSO controls in place for solids & floatable material. Figure 7-13
- 3. Cost estimate and implementation schedule for each of the control measures being implemented. Figure 7-1, Cost estimates available upon request.
- 4. Estimate of decrease in solids and floatable expected from the minimum control efforts. Figure 7-14
- 5. Documentation of any additional controls to be installed or implemented. To be included in the CSO LTCP Document



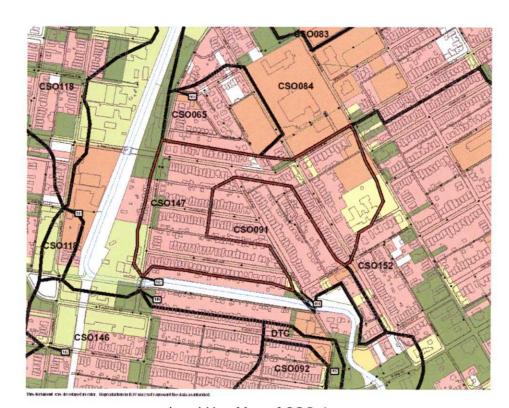
#### FIGURE 7-2 CSO Update Form



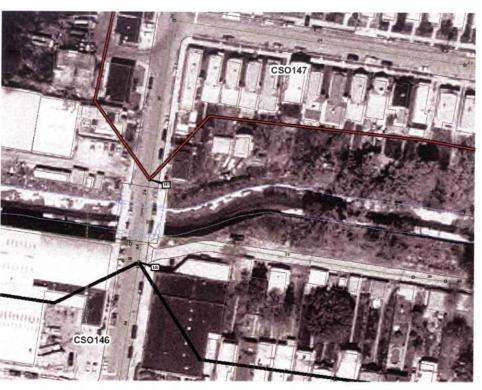




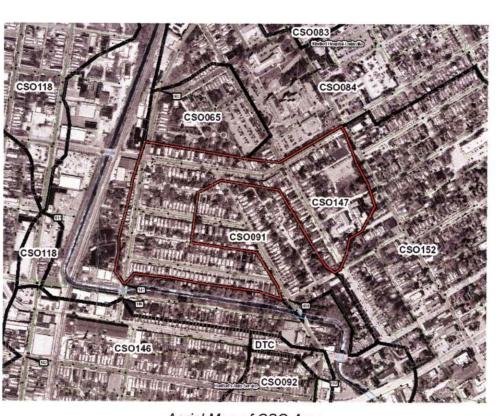
Zoning Map of CSO Area



Land Use Map of CSO Area

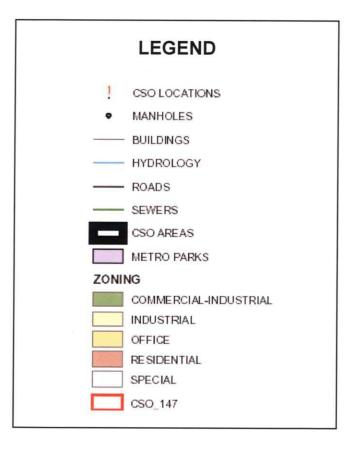


Aerial Map of the Area Surrounding the CSO Structure

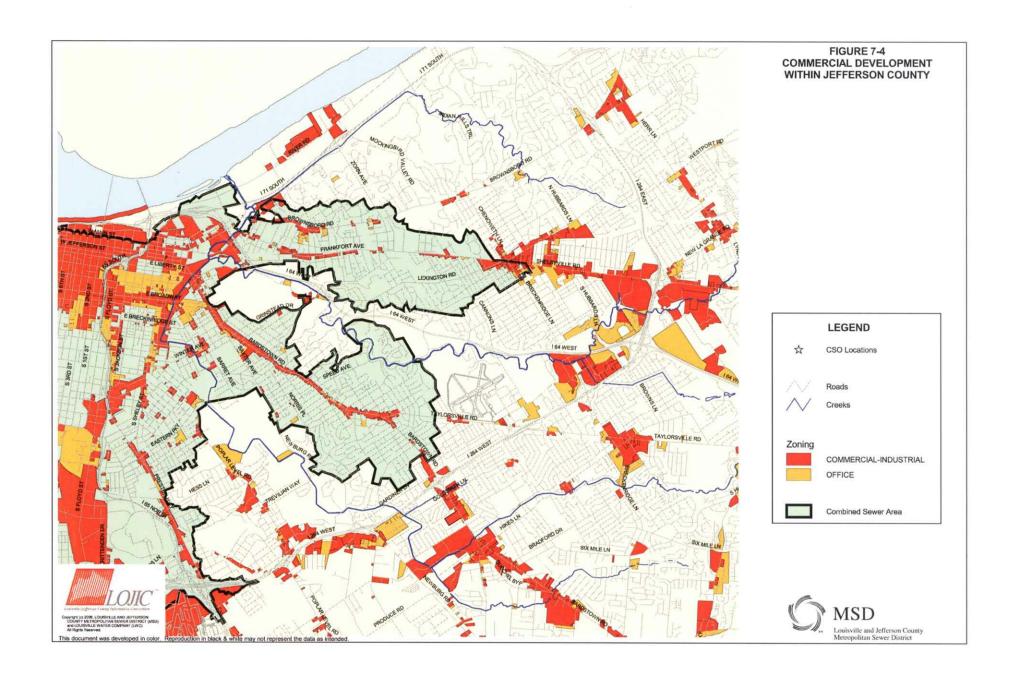


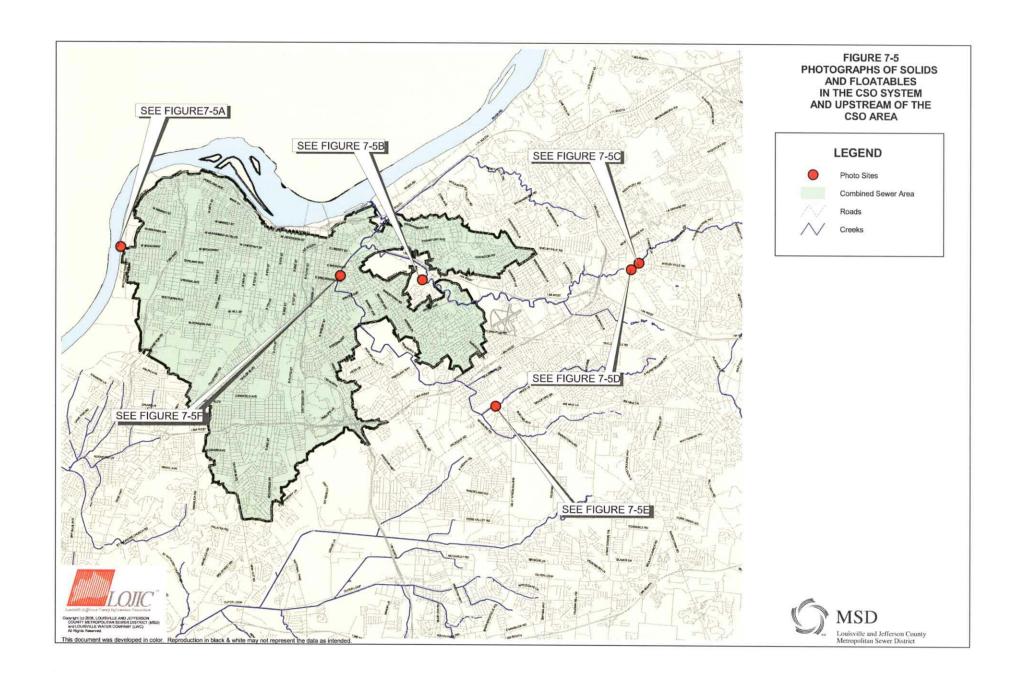
Aerial Map of CSO Area

# FIGURE 7-3 SAMPLE CSO ASSESSMENT LAND USE ZONING MAP AERIAL PHOTOGRAPHS









#### FIGURE 7 - 5a Ohio River at CSO 105 Within CSO Area

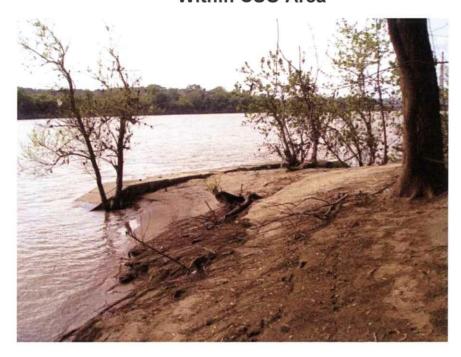


FIGURE 7- 5b MIDDLE FORK OF BEARGRASS WITHIN CSO AREA





#### FIGURE 7- 5c MIDDLE FORK OF BEARGRASS CREEK UPSTREAM OF CSO AREA



FIGURE 7- 5d MIDDLE FORK OF BEARGRASS CREEK UPSTREAM OF CSO AREA (2)

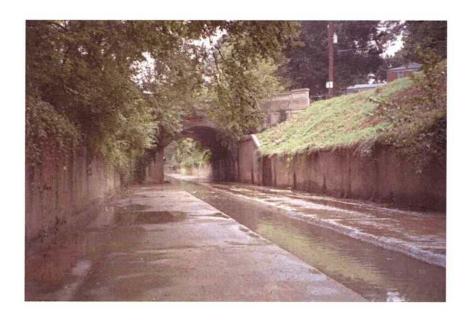




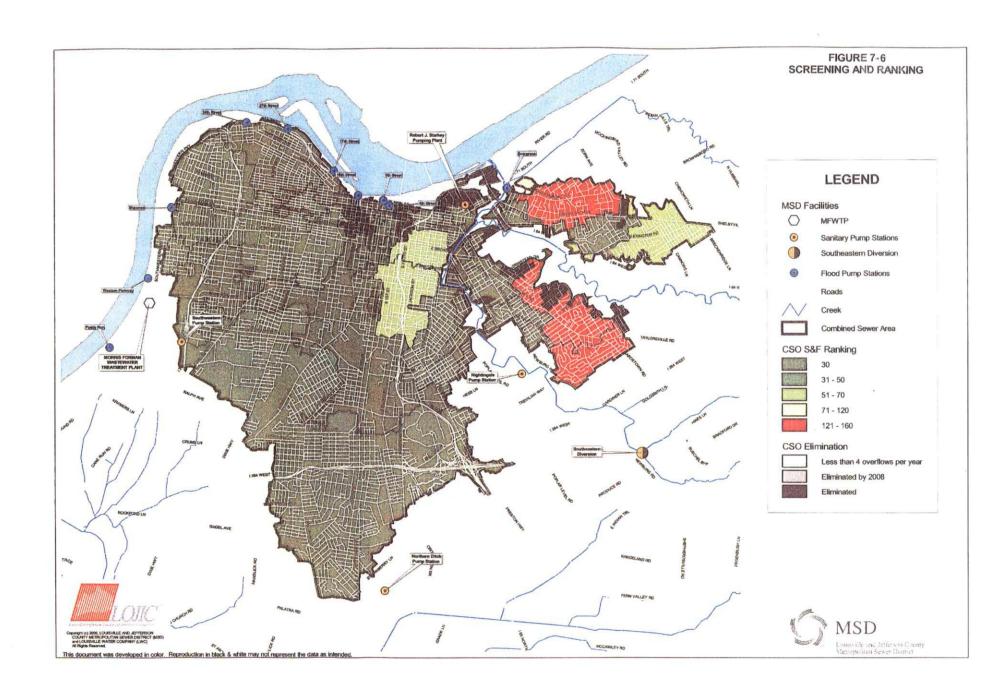
#### FIGURE 7- 5e SOUTH FORK OF BEARGRASS CREEK UPSTREAM OF CSO AREA



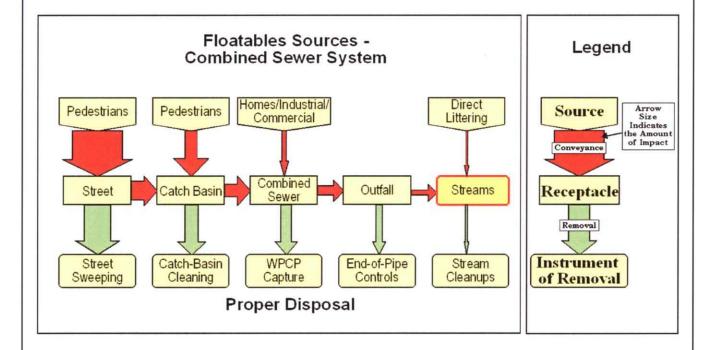
FIGURE 7- 5 f
IMPROVED CHANNEL OF
BEARGRASS CREEK WITHIN
CSO AREA



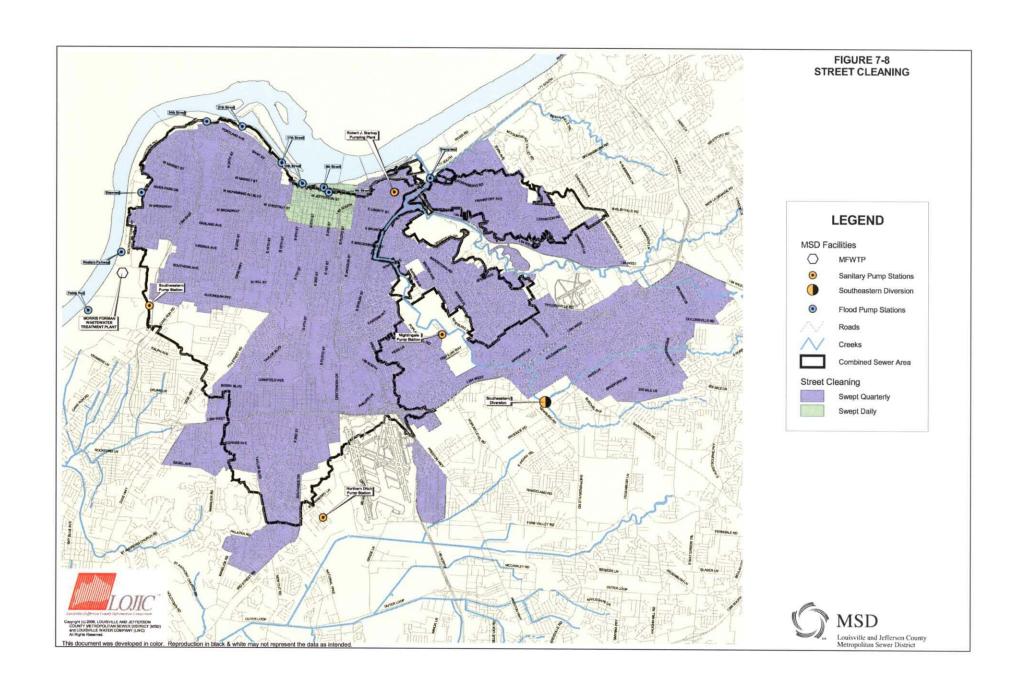




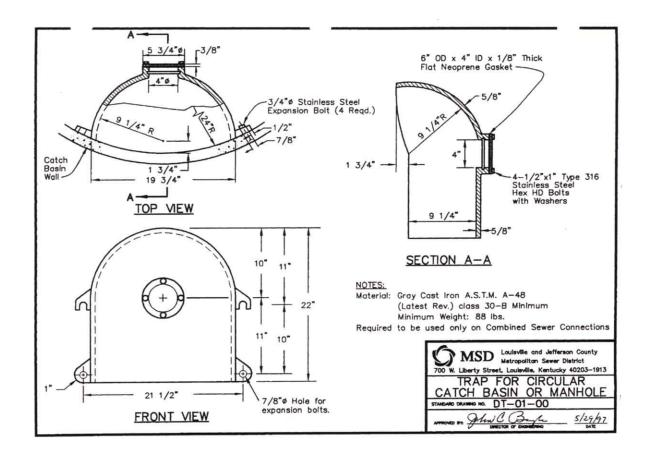
# FIGURE 7-7 SOURCES OF SOLIDS AND FLOATABLES



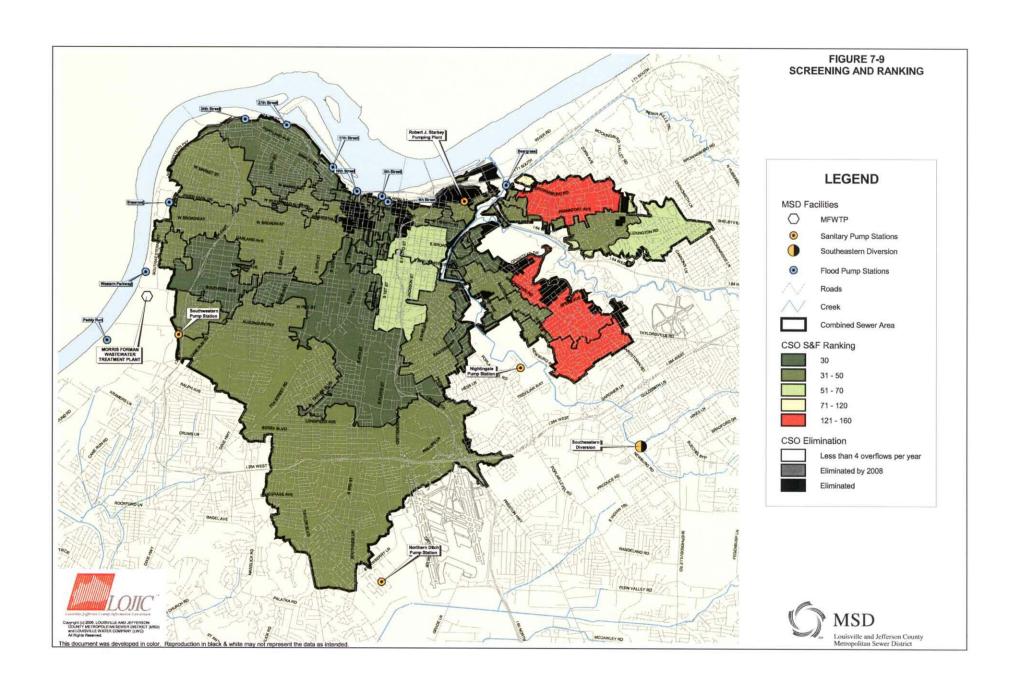




## FIGURE 7-9 GAS HOOD DIAGRAM







## FIGURE 7-10 TRAPPED CB DIVIDED BY CSO AREA

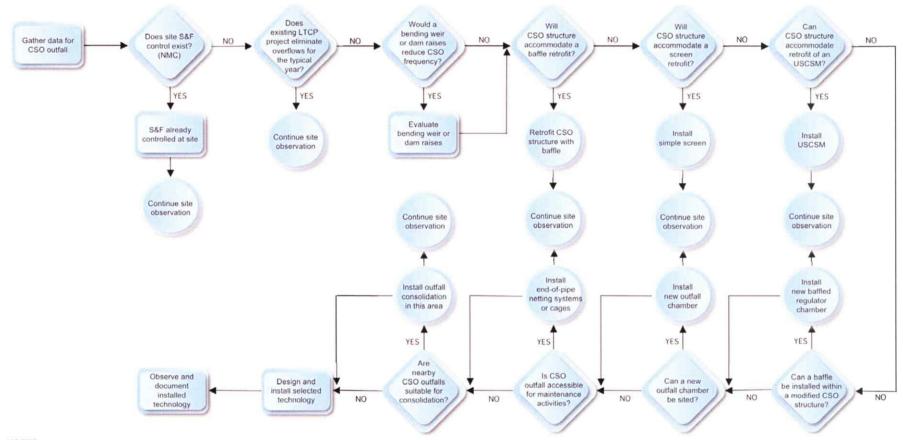
Page 1 of 2

	# of Trapped CB in	Total # of CB	# of CB not	
CSO Area	Area	in Area	Trapped	% CB Trapped
CSO015	3544	6440	2896	55.03%
CSO019	617	974	357	63.35%
CSO020	52	73	21	71.23%
CSO022	114	204	90	55.88%
CSO026	7	21	14	33.33%
CSO027	9	23	14	39.13%
CSO028	5	10	5	50.00%
CSO030	28	90	62	31.11%
CSO031	5	7	2	71.43%
CSO032	6	12	6	50.00%
CSO033	2	3	1	66.67%
CSO034	7	13	6	53.85%
CSO036	24	31	7	77.42%
CSO038	11	21	10	52.38%
CSO050	32	53	21	60.38%
CSO051	8	15	7	53.33%
CSO052	9	13	4	69.23%
CSO053 150	21	97	76	21.65%
CSO054	6	18	12	33.33%
CSO055	5	28		17.86%
CSO056	21	42	21	50.00%
CSO058	89	190	101	46.84%
CSO065	2	7	5	28.57%
CSO080	12	17	5	70.59%
CSO083	24	41	17	58.54%
CSO084	94	123	29	76.42%
CSO086	7	7	0	100.00%
CSO087	7	8		87.50%
CSO088	14	25	11	56.00%
CSO091	5	11	6	45.45%
CSO091	8	12	4	66.67%
CSO092	19	23	4	82.61%
CSO104	44	64	20	68.75%
CSO105	1255			
CSO106	2	7	5	
CSO108	304	476		63.87%
CSO109	81	87	6	
CSO110	61	66		
CSO111	74	120		
CSO111	49			70.00%
CSO113 CSO117 149 179	683			
CSO117 149 179 CSO118	338		113	
CSO118 CSO120	12	12		
CSO120 CSO121	92	143		64.34%
CSO121 CSO123	12	143		75.00%
CSO123 CSO125	201	305		65.90%
CSO125	25			
CSO126 CSO127	115			58.38%
CSO127 CSO130	30			
	30 24			
CSO131	341			
CSO132 167				
CSO137	35	39	I 4	<b>■</b> 09.7470

# FIGURE 7-10 TRAPPED CB DIVIDED BY CSO AREA Page 2 of 2

	# of Trapped CB in	Total # of CB	##NEGETON	
CSO Area	Area	in Area	Trapped	W CD T
CSO140	22			% CB Trapped
CSO141	20	59 22		37.29%
CSO144	9	13		90.91%
CSO146	606	850		69.23%
CSO147	14	31		71.29%
CSO148	18	30	17	45.16%
CSO151	137	270	12	60.00%
CSO152	147	216	133	50.74%
CSO153	21	40	69	68.06%
CSO154	31	32	19	52.50%
CSO155	2	10	1	96.88%
CSO161	3	4	8 1	20.00%
CSO166	233	445	212	75.00%
CSO172	5	13	8	52.36%
CSO178	59	81	22	38.46%
CSO181	17	31		72.84%
CSO189	792	1172	380	54.84%
CSO190	162	212	50	67.58%
CSO191	156	219	63	76.42%
CSO192	7	15	8	71.23%
CSO193	24	49	25	46.67%
CSO195	3	4	25	48.98%
CSO198	10	16	6	75.00%
CSO200	6	12	6	62.50%
CSO202	0	5	5	50.00% 0.00%
CSO203	6	18	12	33.33%
CSO206	277	563	286	
CSO209	14	125	111	49.20% 11.20%
CSO210	133	158	25	84.18%
Direct to Stream	62	150	88	41.33%
Direct to Ohio	217	722	505	30.06%
Main Diversion Structure	2096	3425	1329	61.20%
NOT IN CSO AREA	388	41179	40791	0.94%
			70,91	0.54%
Total Percentage	11526	19151		60.18%

#### FIGURE 7-12 SITE SCREENING FOR VIABLE S&F CONTROL TECHNOLOGIES



#### NOTES

- 1 Data to include: discharge statistics from modeling; characteristics of drainage area, outfall, and site; regulator and site; effluent characteristics wrt floatables
- 2 Reduction of CSO occurrences is preferred to S&F control alone since all pollutants are reduced, not just S&F. If CSO frequency is reduced to an acceptable level, no additional control of S&F is required.
- 3 Unpowered Self-Cleaning Screening Mechanism
- 4 Note: Outfall consolidation may reduce number of CSOs and number of control facilities to maintain, and may also allow for cost-effective centralization of treatment for floatables, solids, and other parameters.



			Street	Street	Catch	In-System or EOP	
			Sweeping	Sweeping	Basins	Control	Status
				-225	P		
				Sweeping (6x/wk)	Percentage Hooded Catch Basins	1	
			Mechanical Sweeping QUARTERLY	Sweepin (6x/wk)	No Ho		
			FE   22	we 5x/	sin Sin		
NO.			ing in	S = 3	ltag Ba	<b>A</b>	
Š			cha Sep			] 2/	
REGION	CSO	LOCATION	Mechanical Sweeping QUARTER	Manual ! DAILY (	Percentage H Catch Basins	DEVICE	
1	018	NIGHTINGALE & SFBGC	YES	NO	Int. Relief	Baffle/Screen	
1	020	BUCHANAN & FRANKLIN	YES	NO	71%	Screen	
1	062	N OF BUCHANAN PS	YES	NO	Int. Relief	Screen	
1	065	LAMPTON & SWAN	YES	NO	29%	Baffle	ELIMINATE
1	080	LEXINGTON RD W OF PAYNE	YES	NO	71%	Baffle	ELIMINATE
1	081	LETTERLE @ BGC PS	YES	NO		Baffle	ELIMINATE
1	082	BGC @ OMFT	YES	NO	Int. Relief	Cyclone	
1	083	BRENT & BROADWAY	YES	NO	59%	Baffle Vault	
1	084	BRENT ST @ BGC	YES	NO	76%	Baffle	
1	086	PAYNE ST @ SPRING ST	YES	NO	100%	Screen	
1	087	FRANKFORT @ BLUEHORSE	YES	NO	88%	Baffle	
1	088	BROWNSBORO RD @ BGC	YES	NO	56%	Screen	
1	091	SCHILLER & HIGHLAND	YES	NO	45%	Baffle	
1	092	SCHILLER BTW KY & ST CATHERINE	YES	NO	67%	Screen	
1	093	SPRING ST N OF MELLWOOD	YES	NO	83%	Baffle	
1	097	BGC S OF EASTERN PKWY	YES	NO	Int. Relief	Baffle	
1	106	BACKYARD OF 1212 ROYAL	YES	NO	29%	Screen	
1	108	NEWBURG @ TREVILIAN	YES	NO	64%	CDS	
1	109	BEHIND O. L. O. P.	YES	NO	93%	Wave Screen	
1	110	BGC S OF EASTERN PKWY	YES	NO	92%	Cages	
1	111	BGC N OF EASTERN PKWY	YES	NO	62%	Baffle	-
1	113	ELLISON & SCHILLER	YES	NO	70%	Wave Screen	
1	117 118	LOGAN & CALDWELL BROADWAY W OF BGC	YES YES	NO NO	81% 75%	Baffle	
						Baffle	
1	119 120	BGC N OF BROADWAY E OF BGC & S OF BAXTER	YES YES	NO NO	Int. Relief 100%	Cyclone Baffle	
1	120	LEXINGTON RD W OF BGC	YES	NO	64%	Baffle Vault	
1	123	ON BGC OP SPRING VALLEY	YES	NO	75%	Baffle Baffle	ELIMINATE
1	125	GRINSTEAD @ I-64	YES	NO	66%	Wave Screen	
1	126	I-64 & SAUNDERS LN	YES	NO	89%	Cyclone	
1	127	LEXINGTON RD OP ETLEY	YES	NO	58%	Wave Screen	
1	130	S OF STORY OP WEBSTER	YES	NO	94%	Screen	
1	131	FRANKFORT AVE @ BGC	YES	NO	73%	Baffle	
1	132	BROWNSBORO & DRESCHER B	YES	NO	61%	Baffle	
1	137	CALVARY CEMETARY @ BGC	YES	NO	90%	Screen	
1	140	LOCUST SW OF SPRING	YES	NO	37%	Baffle	
1	141	BAXTER AVE & BGC	YES	NO	91%	Screen	
1	142	LOGAN & ST CATHERINE	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	144	S END OF VANCE & I-64	YES	NO	69%	Wave Screen	
1	145	POINT PUMP STATION	YES	NO			ELIMINATE
1	146	SWAN ST S OF BGC	YES	NO	71%	Baffle	
1	147	SWAN ST N OF BGC	YES	NO	45%	Baffle	
1	148	EASTERN PKWY E OF BGC	YES	NO	60%	Baffle	
1	149	KENTUCKY STREET & ST PAUL CT	YES	NO	81%	Baffle	
1	151	BGC & CASTLEWOOD DELL	YES	NO	51%	Cages	
1	152	BGC & RUFER AVENUE	YES	NO	68%	Cages	
1	153	LEXINGTON & COOPER	YES	NO	53%	Screen	
1	154	MELLWOOD AVE & EDWD POND BR	YES	NO	97%	Screen	E1 15 415 1 4 T
1	162	ON MFT S OF LEXINGTON	YES	NO			ELIMINATE
1	166	LEXINGTON RD & I-64	YES	NO	52%	Wave Screen	
1	167	BROWNSBORO & DRESCHER B	YES	NO	61%	Baffle	
1	172	ADAMS ST & I-64	YES	NO	38%	Screen	
1	174	GOSS AVE & BOYLE ST	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	179	KENTUCKY ST & ST PAUL CT	YES	NO	81%	Baffle	
1	180	ORMSBY & CLAY	YES	NO NO	Int. Relief	100% Capture at Inflatable Dam	
1	182	BURNETT W OF SHELBY ST	YES	NO	Int. Relief	100% Capture at Inflatable Dam	

			Street	Street	Catch	In-System or EOP	
			Sweeping	Sweeping	Basins	Control	Status
					_		
REGION	CSO	LOCATION	Mechanical Sweeping QUARTERLY	Manual Sweeping DAILY (6x/wk)	Percentage Hooded Catch Basins	DEVICE	
1	183	ALEXANDER & KESWICK	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	184	FETTER & ALEXANDER	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	185	SHELBY & KESWICK	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	186	LOGAN & OAK	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	187	SHELBY & CAMP	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	188	SHELBY & CLAY	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	205	MORGAN & HOERTZ	YES	NO	Int. Relief	100% Capture at Inflatable Dam	
1	206	CHEROKEE RD & SPRING DR	YES	NO	49%	Baffle	ELIMINATED
1	209	CHEROKEE PK @ PARK BD RD	YES	NO	11%	Doffie Doffie	ELIVIINATEL
2	019	34th & RUDD FOURTH & MAIN	YES YES	NO YES	63% 56%	Baffle Baffle	
2	022	FOURTH & MAIN FOURTH & MAIN	YES	NO	Int. Relief	NONE	
2	023	6th & BROADWAY	YES	YES	33%	Screen	
2	020	7th & BROADWAY	YES	YES	39%	Baffle	
2	028	6TH & YORK	YES	NO	50%	Cyclone	
2	029	8th & YORK	YES	NO	Int. Relief	Baffle	
2	030	9th & YORK	YES	YES	31%	Cyclone	
2	031	6th & BRECKINRIDGE	YES	NO	71%	Baffle	
2	032	4th & BRECKINRIDGE	YES	NO	50%	Screen	
2	033	ON YORK E OF 4th	YES	NO	67%	Baffle	
2	034	4th & YORK	YES	NO	54%	Cyclone	
2	035	2nd & BROADWAY	YES	NO	Int. Relief	Screen	
2	036	3rd & BROADWAY	YES	NO	77%	Baffle	
2	038	5th & BROADWAY	YES	NO	52%	Baffle	
2	049	PRESTON N OF JACKSON	YES	NO	Int. Relief	Baffle	
2	050	12th ST N OF MAIN	YES	NO	60%	CDS	
2	051	11th ST N OF MAIN	YES	YES	53%	Baffle	
2	052 053	10th ST N OF MAIN	YES YES	YES YES	69% 22%	Baffle Baffle	
2	053	8th ST N OF MAIN 7th ST N OF MAIN	YES	YES	33%	Baffle	
2	055	6th ST N OF MAIN	YES	YES	18%	Baffle	
2	056	5th ST N OF MAIN	YES	YES	50%	Baffle	
2	057	1st & MAIN	YES	YES	Int. Relief	Screen	
2	058	PRESTON & MAIN	YES	YES	47%	Baffle	
2	150	8th ST & COMMON PLACE	YES	NO	22%	Baffle	
2	155	ROWAN & 12th	YES	NO	20%	Screen	
2	156	WASHINGTON W OF 6th	YES	NO	Int. Relief	Screen	
2	159	INTERCEPTOR RELIEF	YES	NO	Int. Relief	Baffle	
2	160	1ST ST BTW MAIN & MARKET	YES	YES	Int. Relief	Baffle	
2	161	FIRST & MARKET	YES	YES	75%	Screen	
2	178	9th & YORK	YES	NO	73%	Baffle	
2	181	2nd & BROADWAY	YES	YES	55%	Baffle	
2	190	17th ST & NW PKWY	YES	NO	76%	Baffle	
2	192	6th & GARLAND	YES	NO	47%	Baffle	
2	193 194	6th & KENTUCKY	YES YES	NO NO	49% Int. Relief	Baffle	
2	194	OAK ST W OF 4th ST 4th & OAK	YES	NO	75%	Screen Baffle	
2	195	3rd & OAK	YES	NO	Int. Relief	Baffle	
2	197	3rd ST S OF OAK ST	YES	NO	Int. Relief	Screen	
2	198	3rd & ORMSBY	YES	NO	63%	Baffle	
2	199	3rd ST N OF MAGNOLIA	YES	NO	Int. Relief	Screen	
2	200	3rd & MAGNOLIA	YES	NO	50%	Screen	
2	201	5th & KENTUCKY	YES	NO	Int. Relief	Screen	
2	202	ORMSBY W OF 3rd ST	YES	NO	0%	Screen	
2	203	4th & ORMSBY	YES	NO	33%	Baffle	
2	207	2ND & JEFFERSON	YES	NO	Int. Relief	Screen	

			Street Sweeping	Street Sweeping	Catch Basins	In-System or EOP Control	Status
REGION	CSO	LOCATION	Mechanical Sweeping QUARTERLY	Manual Sweeping DAILY (6x/wk)	Percentage Hooded Catch Basins	DEVICE	
2	208	12th & JEFFERSON	YES	NO	Int. Relief	Screen	
3	015	BELLS LN & 1-264	YES	NO	55%	PS Gate Baffle	
3	016	S OF 45th & WINNROSE	YES	NO	Int. Relief	Baffle	
3	104	SW PKWY & BROADWAY	YES	NO	69%	Screen	
3 .	105	BROADWAY @ SW PKWY	YES	NO	56%	NONE	
3	189	SHAWNEE PARK FLOOD PS	YES	NO	68%	Baffle	
3	191	SOUTHWESTERN PS	YES	NO	71%	Baffle	
3	210	S OF 45th & WINNROSE	YES	NO	84%	Baffle	
3	211	Main Diversion Structure	YES	NO	Int. Relief	NONE	

# FIGURE 7-14 NMC PERCENTAGE BY CSO

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nno-car		TOTAL FLOATABLES LOADING	STREET SWEEPING	CATCH	HYDRAULIC CAPTURE	IN-SYSTEM DEVICES	END-OF-PIPE CONTROLS	TOTAL	STATUS
REGION	CSO ID								2
1	018	100%	6%	9%	0%	29%	0%	44%	
1	020	100%	6%	51%	25%	16%	0%	98%	
1	062	100%	6%	9%	0%	77%	0%	91%	
1	065	100%	6%	26%	0%	0%	0%	32%	ELIMINATED
1	080	100%	6%	51%	0%	0%	0%	57%	ELIMINATED
1	081	100%	6%	9%	85%	0%	0%	100%	ELIMINATED
1	082	100%	6%	9%	0%	85%	0%	100%	
1	083	100%	6%	44%	0%	22%	0%	71%	-
1	084	100%	6%	54%	0%	8%	0%	68%	
1	086	100%	6%	68%	26%	0%	0%	100%	EL IRAINIA TER
1	087	100%	6%	61%	33%	0%	0%	100%	ELIMINATED
1	088	100%	6%	42%	52%	0%	0%	100%	
1	091	100%	6%	36%	34%	5%	0%	81%	
1	092	100%	6%	48%	42%	4%	0%	100%	
1	093	100%	6%	58%	36%	0%	0%	100%	
1	097	100%	6%	9%	21%	13%	0%	48%	
1	106	100%	6%	26%	31%	34%	0%	96%	
1	108	100%	6%	47%	0%	47%	0%	100%	
1	109	100%	6%	64%	0%	30%	0%	100%	
1	110	100%	6%	64%	0%	27%	0%	97%	
1	111	100%	6%	45%	0%	10%	0%	61%	
1	113	100%	6%	50%	0%	44%	0%	100%	
1	117	100%	6%	57%	0%	7%	0%	70%	
1	118	100%	6%	53%	0%	8%	0%	67%	
1	119	100%	6%	9%	0%	85%	0%	100%	
1	120	100%	6%	68%	0%	5%	0%	79%	
1	121	100%	6%	47%	0%	20%	0%	73%	=
1	123	100%	6%	53%	0%	0%	0%	59%	ELIMINATED
1	125	100%	6%	48%	0%	46%	0%	100%	
1	126	100%	6%	62%	0%	32%	0%	100%	
1	127	100%	6%	44%	0%	51%	0%	100%	
1	130	100%	6%	64%	0%	6%	0%	76%	
1	131	100%	6%	52%	25%	4%	0%	86%	
1	132	100%	6%	45%	0%	10%	0%	61%	
1	137	100%	6%	62%	6%	24%	0%	97%	
1	140	100%	6%	31%	7%	11%	0%	55%	-
1	141	100%	6%	63%	31%	0%	0%	100%	
1	142	100%	6%	9%	85%	0%	0%	100%	
1	144	100%	6%	50%	0%	44%	0%	100%	EL INAIR LA TES
1	145	100%	6%	9%	0%	0%	0%	15%	ELIMINATED
1	146	100%	6%	51%	3%	8%	0%	68%	
1	147	100%	6%	36%	15%	9%	0%	65%	
1	148	100%	6%	44%	16%	7%	0%	73%	
1	149	100%	6%	57%	10%	5%	0%	78%	
1	151	100%	6%	39%	0%	0%	55%	100%	
1	152	100%	6%	49%	0%	0%	45%	100%	
1	153	100%	6%	40%	0%	49%	0%	95%	
1	154	100%	6%	66%	6%	20%	0%	98%	
1	162	100%	6%	9%	0%	0%	0%	15%	ELIMINATED

# FIGURE 7-14 NMC PERCENTAGE BY CSO

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		TOTAL FLOATABLES LOADING	STREET SWEEPING	CATCH	HYDRAULIC CAPTURE	IN-SYSTEM DEVICES	END-OF-PIPE CONTROLS	TOTAL	STATUS
REGION	CSO ID								IS
1	166	100%	6%	40%	0%	54%	0%	100%	
1	167	100%	6%	45%	49%	0%	0%	100%	-
1	172	100%	6%	32%	16%	42%	0%	95%	
1	174	100%	6%	9%	85%	0%	0%	100%	
1	179	100%	6%	57%	35%	0%	0%	98%	
1	180	100%	6%	9%	85%	0%	0%	100%	
1	182	100%	6%	9%	85%	0%	0%	100%	
1	183	100%	6%	9%	85%	0%	0%	100%	
1	184	100%	6%	9%	85%	0%	0%	100%	
1	185	100%	6%	9%	85%	0%	0%	100%	
1	186	100%	6%	9%	85%	0%	0%	100%	1
1	187	100%	6%	9%	85%	0%	0%	100%	-
1 1	188	100%	6%	9%	85%	0%	0%	100%	1
1	205 206	100%	6% 6%	9% 38%	85% 1%	0% 11%	0% 0%	100% 56%	-
1	209	100%						21%	ELIMINATED
2	019	100%	6% 6%	16%	0%	0%	0%	65%	ELIMINATED
2		100%		46%	4%	9%	0%		
2	022 023	100%	79%	9%	0%	2%	0%	91% 15%	
2	023	100% 100%	6% 79%	9% 6%	0% 15%	0% 0%	0% 0%	100%	
2	026		79%	7%		0%	0%	100%	
2	027	100% 100%	6%	39%	14% 0%	56%	0%	100%	
2	028	100%	6%	9%	49%	7%	0%	71%	
2	030	100%	79%	6%	0%	15%	0%	100%	
2	030	100%	6%	51%	43%	0%	0%	100%	
2	031	100%	6%	39%	56%	0%	0%	100%	
2	032	100%	6%	48%	41%	1%	0%	96%	
2	034	100%	6%	41%	0%	53%	0%	100%	
2	035	100%	6%	9%	85%	0%	0%	100%	
2	036	100%	6%	55%	26%	3%	0%	90%	
2	038	100%	6%	40%	53%	0%	0%	99%	
2	049	100%	6%	9%	0%	0%	0%	15%	
2	050	100%	6%	45%	0%	49%	0%	100%	
2	051	100%	79%	9%	4%	2%	0%	93%	
2	052	100%	79%	11%	2%	2%	0%	94%	
2	053	100%	79%	5%	2%	3%	0%	89%	
2	054	100%	79%	6%	0%	3%	0%	88%	
2	055	100%	79%	4%	0%	3%	0%	87%	
2	056	100%	79%	9%	0%	2%	0%	90%	
2	057	100%	79%	2%	19%	0%	0%	100%	
2	058	100%	79%	8%	0%	3%	0%	90%	
2	150	100%	6%	22%	0%	14%	0%	42%	
2	155	100%	6%	21%	34%	35%	0%	96%	
2	156	100%	6%	9%	85%	0%	0%	100%	
2	159	100%	6%	9%	0%	17%	0%	32%	
2	160	100%	79%	2%	3%	3%	0%	87%	
2	161	100%	79%	12%	2%	6%	0%	99%	
2	178	100%	6%	52%	33%	2%	0%	92%	
2	181	100%	79%	9%	8%	1%	0%	97%	

FIGURE 7-14 NMC PERCENTAGE BY CSO

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Project		TOTAL FLOATABLES LOADING	STREET	CATCH	HYDRAULIC CAPTURE	IN-SYSTEM DEVICES	END-OF-PIPE CONTROLS	TOTAL REMOVAL	STATUS
REGION	190	100%	<u>ა ა</u> 6%	<u> </u>	± ∪ 5%	7%	<u>₽0</u>	<u>⊨</u> <u>≃</u> 72%	8
2	190	100%	6%	34%	0%	12%	0%	54%	
2 2	192	100%	6%	38%	36%	4%	0%	84%	
	193	100%	6%	9%	85%	0%	0%	100%	
2 2		1							
	195	100%	6%	53%	41%	0%	0%	100% 52%	
2	196	100%	6%	9%	25%	12%	0%		
2	197	100% 100%	6% 6%	9% 46%	8%	70% 7%	0%	92% 72%	
2	198				13%		0%		
2	199	100%	6%	9%	57%	26%	0%	97%	
2	200	100%	6%	39%	18%	34%	0%	96%	
2	201	100%	6%	9%	40%	41%	0%	95%	
2	202	100%	6%	9%	45%	36%	0%	96%	
2	203	100%	6%	29%	65%	0%	0%	100%	
2	207	100%	6%	9%	85%	0%	0%	100%	***************************************
2	208	100%	6%	9%	85%	0%	0%	100%	
3	015	100%	6%	42%	0%	31%	0%	78%	
3	016	100%	6%	9%	85%	0%	0%	100%	
3	104	100%	6%	50%	0%	40%	0%	96%	······
3	105	100%	6%	42%	0%	0%	0%	48%	
3	189	100%	6%	49%	0%	9%	0%	64%	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
3	191	100%	6%	51%	18%	5%	0%	80%	
3	210	100%	6%	59%	0%	7%	0%	72%	
3	211	100%	6%	9%	0%	0%	0%	15%	
					Avera	ige Capture	/CSO	86%	

NMC Compliance Report Section 7 - Control of Solids and Floatables Figure 7-14b

#### Floatables Removal Efficiencies for Various Controls

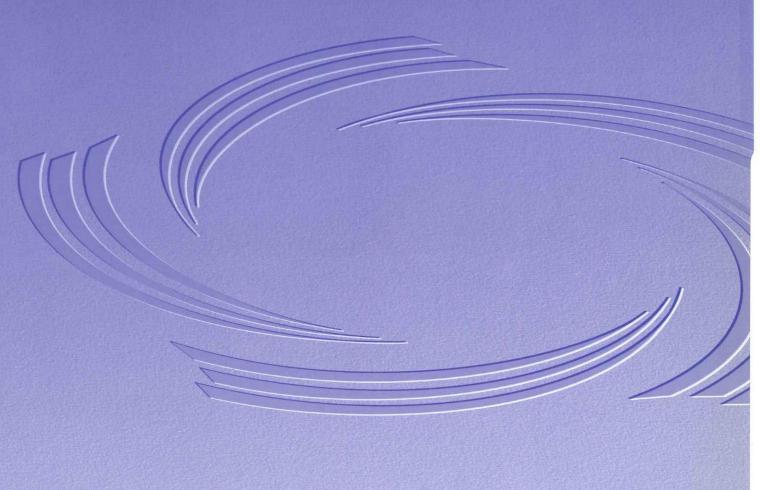
#### Floatables Removal Efficiency Control Reference 90% Mechanical Street Sweeping HydroQual, 1995 75% Manual Street Sweeping HydroQual, 1995 75% Rainfall (flushing off streets) HydroQual, 1995 76% Hooded Catch Basin HydroQual, 1995 HydroQual, 1995 Unhooded Catch Basin 10% HydroQual et.al, 1999 20% Baffle retrofit (min. of 10 locations) 100% Cyclone (Copa) Copa product information 100% Wave Screen (Copa) Copa product information 100% CDS (Copa) Copa product information Basis: HydroQual, 2003\* (NYC CSO sampling showing 10% of items > 1.5 inches min dimension) 90% Cages (1.5" openings) 90% Screens (1.5" openings) Basis: HydroQual, 2003\* (NYC CSO sampling showing 10% of items > 1.5 inches min dimension) 43% Baffle Vault take minimum of new baffle vaults calculated for Boston (HydroQual, 1999) 59% PS Gate Baffle 6 ft submergence; take average of baffle efficiencies calculated for Boston (HydroQual 1999)

NOTE: these removal efficiencies assume that the devices are properly maintained and are designed for the peak flow rate in the typical year.

HydroQual, 1995 \*City-Wide Floatables Study: Evaluation of Non-Structural Methods to Control Combined and Storm Sewer Floatable Materials\* prepared for the NYC DEP, January 1995 HydroQual et al., 1999 \*Floatables Control Preliminary Design Report, Volume 1\* prepared for Boston Water and Sewer Commission, October 1999.

HydroQual et al., 2003 \*Evaluation of Corona Avenue Vortex Facility, Volume 1, Report\* prepared for the New York City Department of Environmental Engineering, Bureau of Environmental Engineering, Bureau of Environmental







# SECTION 8: NMC 7 - POLLUTION PREVENTION PROGRAMS TO REDUCE CONTAMINANTS IN CSOS

#### 8.1 INTRODUCTION

As described by the EPA guidance, "The seventh minimum control, pollution prevention, is intended to keep contaminants from entering the CSS and thus receiving waters via Combined Sewer Overflows (CSOs). Congress enacted the Pollution Prevention Act of 1990 to establish a national strategy for pollution prevention. The Act establishes the following hierarchy for pollution management efforts:

- Pollution should be prevented or reduced at the source whenever feasible.
- Pollution that cannot be prevented should be recycled in an environmentally safe manner whenever feasible.
- Pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible.
- Disposal or release of pollution into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The objective of this minimum control is to reduce to the greatest extent possible the amount of contaminants that enter the combined sewer system. Many of the suggested measures involve behavioral change rather than construction of storage or treatment devices.

The Louisville Metro government and MSD's Pollution Prevention (P2) initiatives include local specialized programs that address response and mitigation of hazardous materials discharges from hazmat incidents and motor vehicle accidents, and commercial-sector P2 educational program development that address existing or potential pollutants of concern.

## **8.2 PROGRAM OVERVIEW**

Louisville Metro and MSD use the following strategies and programs to prevent pollution from entering the sewers: An Erosion Prevention and Sediment Control (EPSC) permit, compliance, and enforcement program; routine catch basin cleaning and street sweeping; enforcement of litter laws; fertilizer, pesticide, and de-icing chemical usage management; public education programs and media advertisements; solid waste reduction and recycling; yard waste collection and composting; household hazardous waste collection; and, water conservation initiatives.

MSD's EPSC program addresses silt and sediment discharges from land disturbing activities. Commercial and industrial pollutant runoff and discharges are controlled by MSD's pretreatment permits, auxiliary programs such as development Industrial/Commercial Plumbing Plan Review (I/CPPR) and administration of the local Hazardous Materials Ordinance (HMO), as well as targeted educational campaigns. The MSD-supported motor vehicle accident mitigation program removes automotive fluids and fuels from the streets and roads at the time of the spill, and prevents washing those fluids into the sewers. MSD publicizes P2 public educational materials in a variety of ways including web pages, newsletters, advertisements, brochures, pamphlets and books, as well as participating in local workshops and festivals offering such a venue.

Municipal control measures conducted by Louisville Metropolitan Government, such as street sweeping, removes silt, sediment, leaves and other litter before being washed into the collection system. Adequate solid waste management collection and disposal programs, recyclable materials collections, a household hazardous waste drop off location and yard waste collection



and composting programs all reduce the likelihood that residents will use the sewers for a method of disposal.

Extensive public education programs that address litter prevention and proper solid waste management reinforce the solid waste management efforts. Reducing or eliminating the discharge of toxic materials from municipal operations such as street de-icing and facility maintenance is practiced through materials substitution and alternative landscaping programs. Use-based volume charges and loading-based quality surcharges for water and sewer service, as well as facility-specific industrial permit and monitoring requirements encourage water conservation efforts. Slowing wet weather runoff through water storage and landscape modification serves terrestrial as well as riparian ecological systems by reducing CSOs and stream bank erosion while providing natural watering to urban landscapes and recharging groundwater aguifers.

#### **8.3 SYSTEM CHARACTERIZATION**

The CSS is located in the older section of Louisville. Urban P2 programs and services such as universal solid waste, yard waste and recyclable materials collection, street sweeping and street de-icing are provided to residents in this area. The characterization of the critical assets of the CSS is described in detail in Section 2 (NMC 1) of this report.

Each physical infrastructure asset in Louisville Metro is uniquely identified in a geocoded database referred to as Metro Information, Development and Assets System (MIDAS). The geocoded data tables are used to delineate responsibility and areas for activities such as litter pickup, street sweeping and catch basin cleaning. The database is used to map, track and report work activities performed on these assets. MIDAS is also used to generate mailing lists for specific audiences such as a geographically-targeted mass mailing of educational information for a neighborhood project or a pollution prevention brochure sent only to the residences where private swimming pools are located.

#### **8.4 EROSION PREVENTION AND SEDIMENT CONTROL**

MSD developed and implemented a comprehensive erosion prevention and sediment control (EPSC) permit program that includes a training and certification program, permit application process, compliance inspections, as well as forms and guidance materials. MSD administers the EPSC Ordinance and requires EPSC Land Disturbance Permits for all construction sites in Louisville Metro that disturb more than 2000 square feet of land. The permits require EPSC Best Management Practices (BMPs) for new development projects.

General Permits are required for utilities and public agencies that have frequent but small land-disturbing maintenance activities. General permits streamline the EPSC Ordinance process by allowing these agencies and entities to avoid the plan approval process for any small-scale or repetitive land disturbing activities. MSD issued EPSC General Permits for the following governmental entities, utility companies and public agencies: Louisville Metro, Insight Communications, Parks Department, United States Postal Service, BellSouth, Louisville Water Company, Louisville Gas and Electric, and Jefferson County Public Schools. In addition to administering and enforcing the EPSC Program, MSD has an approved EPSC General Permit in place for its own operations. The permit was approved by the Louisville Metro government.

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#### 8.5 HAZARDOUS MATERIALS ORDINANCE PROGRAM ADMINISTRATION

The risk of discharge of hazardous materials into the CSS is reduced through MSD's administration of the Hazardous Materials Ordinance and the Louisville Metro Hazmat Incident Integrated Response Program.

## 8.5.1 Hazardous Materials Ordinance and HMPC Program

All commercial and industrial sites in Louisville Metro, including those in the CSS that have a reportable quantity of hazardous materials on-site are required by MSD to file a current Hazardous Materials (Spill) Prevention and Control plan (HMPC). Retail sales establishments are not exempt from the HMPC program.

The HMPC plan is required to include all hazardous materials stored, amounts, locations, primary storage container type, secondary containment type, response equipment and procedures. HMPC Plans are reviewed and the sites are inspected prior to plan approval. Significant industrial users are inspected annually and non-SIUs are inspected on a risk-based schedule.

The Hazardous Materials Ordinance regulates all hazardous materials that are federally listed substances as well as all characteristically hazardous wastes and petroleum. In addition to the HMPC plan, the ordinance requires immediate local spill response reporting to 911 for any size spill that enters a sewer or drainage inlet, or any reportable quantity of material that is released to the environment. The result is that hazardous materials best management practices have been implemented throughout the Louisville Metro area.

# 8.5.2 Response to Hazmat Incidents and to Citizen Reports of Illicit Discharges

MSD uses efficient technologies that enable instantaneous communications and immediate response to hazardous materials releases, as well as to citizens' concerns and reports of non-stormwater discharges to catch basins. When a hazardous materials release is reported to 911, the Louisville Metro Integrated Response System includes notification by the 911 call center to fire and police departments, the MSD Industrial Waste Department (IWD), the MSD Computer Operations Center, the Metro Health Department, the Metro Emergency Management Agency, and to the KY state emergency response system.

Trained responders isolate and mitigate a release before it enters the sewer system when possible, and remain onsite until a responsible party arrives to undertake remedial actions. MSD responders have electronic communications technology that includes pagers, cellular telephones, two-way radios and laptop computers with wireless web access to the MSD sewer asset information and LOJIC GIS databases. This technology enables timely response actions and on-site determination of potential upstream sources as well as the downstream mitigation of released materials.

Calls to the 24-hour customer service center or messages transmitted via the web that report illicit discharges to sewers, catch basins or streams are immediately referred to and investigated by an MSD Industrial Waste Department on-call Emergency Response Pretreatment Inspector. An IWD responder is on-call 24 hours per day and investigates the complaint immediately.



Sewer blockage reports are relayed to MSD's on-call Infrastructure and Flood Protection (I&FP) inspectors. Tele-inspection equipment vans include technology for instantaneous viewing of the sewer video during the inspection, measurement of the distance traveled by the remote sewer camera and real-time access to the Hansen database to update the inspection findings record for immediate work order generation.

## 8.5.3 Motor Vehicle Accident Mitigation Program

MSD purchases spill mitigation materials and provides them to fire departments for use in motor vehicle accident response. The fire department responders use the mitigation materials to absorb vehicle fluids, then they remove the contaminated material and return it to MSD for disposal at MSD expense. The program, which costs approximately \$18,000 per year, provides a convenient alternative to fire departments to keep them from flushing motor vehicle fluids from vehicle accidents into the nearest catch basin or stream.

#### **8.6 PRETREATMENT PROGRAM ADMINISTRATION**

MSD personnel actively promote P2 for commercial and industrial facilities during routine permit and compliance inspections and emergency incident followup inspections. Industrial facilities may be referred to the free P2 audit services offered by the Kentucky Pollution Prevention Center at the University of Louisville. All facilities that store petroleum or hazardous materials are required to comply with the local Hazardous Materials Ordinance as well as the Wastewater/Stormwater Discharge Regulations administered by IWD. Targeted P2 education programs are developed for commercial sectors such as Food Service Establishments (FSEs) and dental offices. Refer to Section 4 (NMC 3) for more information related to the pretreatment program activities.

#### 8.6.1 Wastewater Discharge Permits

The MSD IWD pretreatment program discharge permit program places standard conditions as well as site-specific special conditions on industrial and commercial user permits. Permits issued for facilities in the CSS may specify water conservation requirements, stormwater runoff slug control requirements or wet weather discharge conditions. All SIUs were surveyed in 2004 to determine if wet weather storage capacity exists at their facility. Inspections include outdoor storage areas, discharge volume and timing and materials handling practices.

#### 8.6.2 Commercial Sector P2 Education Projects

Numerous small commercial facilities located throughout the community may individually or collectively cause capacity and maintenance problems or may discharge potential pollutants of concern to the CSS. MSD addresses these concerns by development and distribution of P2 BMP educational materials. FSE grease discharges are addressed by a comprehensive FOG program that includes P2 education. BMP educational materials for dental practices were developed for distribution during 2006. The dental office educational materials target mercury, silver and lead waste management. Future commercial sectors to be addressed may include salvage operations, radiator shops and/or commercial printers.

#### 8.6.2.1 Restaurant Grease P2 Program

Uncontrolled grease from FSEs has the potential to congeal in the sewer system causing blockages and overflows. MSD has a comprehensive P2 education program for grease management, as well as a defined incident response program with followup investigation and

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compliance and enforcement procedures. A training video for P2 in FSEs was introduced in 1999. Refer to Item 8-1 in the NMC Supplemental Information binder.

The grease P2 program includes presentations to trade groups, distribution of educational materials at trade shows and during followup to grease blockage incidents. The program emphasizes adequate grease interceptor maintenance, recovery of recyclable grease, good kitchen housekeeping and source controls.

## 8.6.2.2 Dental Practice BMP Education Project

Mercury is a toxic pollutant of increasing concern because it bioaccumulates in the environment. Studies in other communities have found that dental offices contribute measurable amounts of mercury to wastewater, but the contribution can be significantly reduced by implementation of adequate Best Management Practices (BMPs) in the dental office. Other potential pollutants from dental office operations may include silver, lead, and other chemical materials. MSD promotes adoption of BMPs for dental offices by collaborating with other public agencies and the Kentucky Dental Association. Educational materials were presented at the Kentucky Dental Association annual conference in May, 2006 and are available to all dentists in Louisville Metro. Refer to Item 8-2 in the NMC Supplemental Information binder for a copy of the mercury control initiative P2 BMP educational materials.

## 8.7 PUBLIC EDUCATION PROGRAMS

Environmental education and volunteerism have strong traditions in the community. Brightside is a Louisville Metro public/private collaboration that leads these efforts. Brightside organizes and supports environmental education programs, litter control and beautification projects and mass media campaigns. Brightside, which began in 1986, has directly involved tens of thousands of residents and business employees in its collaborative litter cleanup campaigns in Louisville neighborhoods, and has planted millions of flowers, shrubs and trees in adopted public easements called "Bright Sites." Brightside's mass media advertising campaigns on buses and billboards and in local magazines and newsletters discourage littering. "Green Mile" and "Bright Site" adoption signs include the name of the organization or business that sponsors that location. Brightside enabled citizen volunteers to clear more than 80 tons of trash from public easements in 2005.

The benefits of these wide-spread and highly visible public education efforts include instilling pride and a sense of ownership of the condition of the local environment in the public conscience. Enabling volunteers to perform the direct service of removing tons of trash and litter from the streets and increasing vegetative cover in locations that might otherwise be maintained as impervious surfaces are valuable contributions to the common good. The Brightside webpage found at <a href="http://www.louisvilleky.gov/Brightside/GreenMile/">http://www.louisvilleky.gov/Brightside/GreenMile/</a> lists fifty-six businesses, educational institutions, public agencies and non-profit organizations as "Green Mile" sponsors. Louisville Metro benefits from these efforts by having less street litter than is seen in other communities, resulting in less solid and floatable materials entering the combined sewer system. Hundreds of landscaped major thoroughfares and intersections reduce the public cost of street easement maintenance. Catch basin cleaning is also reduced by encouraging and enabling thousands of volunteers to perform gardening and litter pickup.

MSD focuses its environmental education and involvement efforts on development and support of watershed-specific organizations and activities in addition to providing financial support for litter and solid waste education programs such as Brightside. MSD also targets specific commercial sectors for pollution prevention education. MSD funds and provides information to



the Salt River Watershed Water Watch organization's stream monitoring of streams affected by CSOs. The Beargrass Creek Watershed Council stakeholder group was instrumental in developing a watershed report, a symposium and a creek sweep that provides the opportunity for residents to directly participate in water quality improvements and provides an opportunity for agencies to present educational sessions on wet weather pollution prevention and runoff controls.

#### 8.7.1 Louisville Metro Environmental Education

Brightside is dedicated to educating the community on how to improve the environment. MSD also provides funding for the Brightside educational programs for Jefferson County students such as the Youth Environmentally Active Club, Eco-Drama and Youth Environmental Leadership Institute. The goal of these programs is to build awareness and inspire compliance. Brightside environmental education collaborations reach into public and private elementary schools throughout Louisville Metro, instilling environmental protection values into the next generation. Brightside partnered with schools to implement a "Keep It Clean" competition in 17 area high schools during the year and featured litter prevention in the Eco-Drama program available to all 3rd grade classrooms. Brightside's Fred Wiche Award honors individuals, groups, and schools for environmental stewardship. Each year, schools are also provided with a curriculum component about environmental issues in the community through the publication, "ABCs of the Environment."

## 8.7.2 Mass Media Campaigns

Example of a Brightside Anti-Litter Campaign Advertisement



Brightside advertises against littering on TARC buses, roadside billboards, and in local publications. The graphics, an example of which is seen here, effectively draw attention to the message. The Brightside Anti-Litter Campaign webpage is located at <a href="http://www.keepitcleanlouisville.org/">http://www.keepitcleanlouisville.org/</a>.

## 8.7.3 Beargrass Creek Watershed Council

Beargrass Creek is the only internal urban stream in Louisville that is affected by CSOs. MSD supported the development of a coalition of concerned citizens, agency staff and business owners who came together as the Beargrass Creek Watershed Council stakeholder's group. MSD is an active participant and makes technical assistance available to the group. The Council instituted several valuable public education and participation events including compilation of a new watershed report in 2005, instituting an annual creek sweep field day, and producing a significant watershed symposium that was attended by more than one hundred participants from environment groups, government agencies, private developers and elected officials.

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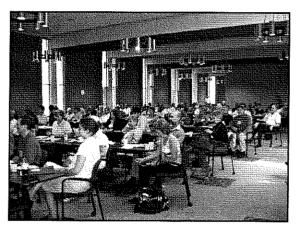


## 8.7.3.1 Beargrass Creek Watershed Report

Between December 2003 and June 2005, the Beargrass Creek Watershed Council collaborated on development of Beargrass Creek Watershed: State of the Streams Report. This comprehensive report was compiled from information and data obtained from the Center for Watershed Protection; Kentucky Division of Water; MSD; U.S. Army Corps of Engineers; U.S. Geological Survey; University of Louisville Center for Infrastructure Research; and Louisville and Jefferson County Information Consortium. The report discusses the condition of Beargrass Creek and provides guidance information for residents to improve the water quality of the stream. Refer to Item 8-3 in the NMC Supplemental Information binder for a copy of the report.

## 8.7.3.2 Beargrass Creek Watershed Roundtable

A major project that was initiated in 2004 was the development of a comprehensive workshop to present the community with the findings of the Council, and to educate developers, public agency staff, environmentalists, educators and public officials on methods to incorporate low-impact development and watershed protection into the actions and services they provide to the community. The Beargrass Creek Watershed Council worked to develop this symposium to educate the community on the challenges and possibilities for the stream most affected by CSOs and urban runoff, Beargrass Creek.



Attendance at Beargrass Creek Watershed Symposium

## 8.7.3.3 Beargrass Creek Sweep

This creek sweep activity was initiated by the Beargrass Creek Watershed Council in 2003. The event is sponsored by Kentucky Waterways Alliance, Louisville Nature Center, Metro Parks, and the Jefferson County Natural Resources Conservation Service and is organized by MSD. Beargrass Creek Sweep includes educational areas where volunteers learn how to create a rain garden or install a rain barrel, understand the benefits of riparian restoration and no-mow zones and to participate in the Water Watch monitoring program.

## 8.7.4 MSD and Louisville Metro Public Outreach and Education

The MSD website, <a href="www.msdlouky.org">www.msdlouky.org</a> addresses water quality, EPSC, hazardous materials management and flooding and drainage programs as well as articles regarding the CSS capital projects. MSD collaborates with Jefferson County Public Schools to offer an EPSC Certification Course as a formal Continuing Education opportunity. Water bill inserts, newsletters and other mailings, advertisements in local media and distribution of pamphlets and brochures during community festivals and neighborhood events are used to inform residents about swimming pool water discharges, catch basin care, and other impacts they may have on water quality and wet weather discharges. MSD also produces educational video materials for distribution, such as "Celebrate Our Streams". Refer to Item 8-4 in the NMC Supplemental Information binder for examples of MSD and Louisville Metro pollution prevention educational materials.

MSD also publishes and distributes more substantial public education documents. MSD Annual Reports include articles that describe the challenges and progress made during the year for MSD activities. Refer to Item 8-5 of the NMC Supplemental Information binder for examples of the



MSD Annual Report. A summary of the findings of the first ten years of stream monitoring was published as the "Water Quality Report 2000." That report was the public education component of the 1999 Synthesis Report. It included "You Can Make a Difference" frames with P2 instructions for residents. Refer to Item 8-6 in the NMC Supplemental Information binder for the Water Quality Report 2000. A history book entitled "50 Years of Progress" published by MSD discusses the origins and impacts of the combined sewer system and the water quality challenges facing the community. Refer to Item 8-7 in the NMC Supplemental Information binder for the 50-year history book.



 ${\it MSD staff demonstrates the EnviroScape at Earth Day at the Zoo.}$ 

MSD financially supported development of the Beargrass State of the Streams report for the Beargrass Creek Council and donated staff hours to the project. MSD conducts landscaping courses and presentations regarding water quality to the public. Past activities have included presentations at the Kentucky Waterway Alliance/ Beargrass Creek Council citizen group meetings Roundtable, such as the Rubbertown Community Advisory Council, high schools, and other seminars. MSD staff has also conducted classes for JCPS teachers on storm water management as part of an outdoor classroom curriculum. MSD meetinas neighborhood conducts attended by affected residents and business owners to discuss its wet weather capital improvement projects.

MSD participates in the annual community-wide Earth Day at the Zoo celebration and purchased an EnviroScape® Watershed/ Nonpoint Source model that demonstrates how different land uses affect water quality for stormwater pollution prevention education activities. The EnviroScape was used for the first time April 2005 at Earth Day at the Louisville Zoo. The Louisville Zoo Earth Day festivities attract thousands of people every year. MSD demonstrates stormwater pollution prevention with the EnviroScape at other family-oriented public events such as neighborhood environmental health fairs and presents educational materials at occasions like the Big Rock Jazz Festival that is held on the Middle Fork of Beargrass Creek where water quality is affected by CSOs.

MSD promotes downspout disconnections, and requires them in CSS separation project areas. Residents are provided educational materials and technical assistance in redirecting flow from building foundations and into rain barrels and/or rain gardens. Refer to Item # 8-4 in the NMC Supplemental Information binder for a copy of the Rain Barrel brochure.

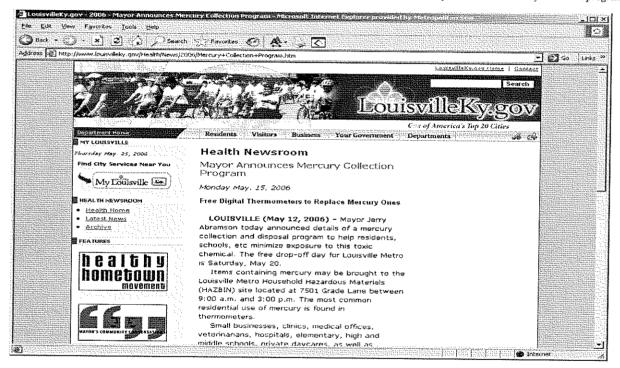
Louisville Metro's website, <u>www.louisvilleky.gov</u> addresses water quality, Green Outlook, snow removal, hazardous waste and recycling issues. Green Outlook is intended to encourage everyone living and working in Louisville Metro to consider the environment, and how it is affected by everyday habits. Green Outlook publicizes information regarding the curbside recycling program as well as composting and household hazardous waste management. Mass mailings are sent to residents once a year detailing the entire recycling program. In addition,

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new residents receive this information when they move into the Louisville Metro area. Green Outlook and Brightside continued to implement Louisville Metro's environmental education and action strategies. Brightside continues to provide public-private collaboration for environmental improvements and educational programs. Refer to Item 8-4 in the NMC Supplemental Information binder for educational materials distributed by Green Outlook and Brightside.

Louisville Metro began three new pollution prevention and public education program initiatives in 2006. They included a Litter Summit in January, a Medical Waste Disposal campaign and a Mercury Collection Program with a Thermometer Exchange in May. Benefits of these programs include additional litter control programs and removal of toxic materials from homes and small businesses where they might be flushed into the combined sewer.



Louisville Metro web site publicized the mercury collection program.

#### 8.8 CONTROL MEASURES

Educational projects such as storm drain stenciling and the daily tasks performed by municipal agencies reduce pollutant discharges to the CSS. Direct control activities by municipal agencies include street and catch basin cleaning, solid waste management and litter control.

#### 8.8.1 Storm Drain Stenciling

MSD provides environmental educators with supplies and training for community service projects to apply stencils to catch basins upon request. A total of 9300 catch basins have been stenciled in this program. MSD staff provides training presentations to classes and groups to improve their understanding of the impacts of discharges to catch basins on the CSS and the receiving stream.

## 8.8.2 Catch Basin Cleaning

Routine catch basin cleaning is performed by MSD in the combined sewer service area. Approximately 30,000 catch basins are cleaned regularly. The catch basin cleaning program is



discussed in more detail in the section for Solids and Floatables Controls of this report. Catch basin maintenance is discussed as part of the section for Proper Operation and Maintenance Programs, Critical Assets: Catch Basins.

## 8.8.3 Street Sweeping

Main arteries, neighborhood street sections, viaducts and downtown streets and sidewalks within the Louisville are cleaned on a regular schedule by Louisville Metro. Residents of high tree density areas are instructed to compost leaves onsite or place them in paper bags for collection. Louisville Metro collects yard waste weekly and the collected waste is composted. Within the Louisville Metro's Central Business District, a vacuum truck performs continuous daily cleaning of debris from sidewalks and curbs. Street sweeping for special events includes annual cleanups for Old Louisville Blitz, Southern Parkway Bridal Path, Mini Marathon, Thunder Over Louisville, the Pegasus Parade route and float staging area, Kentucky Oaks and Kentucky Derby, as well as sweeping of the parking lots at the University of Louisville and the Mayor's Hike and Bike Sweep.

During 2005, Louisville Metro removed more than 1900 tons of debris from parts of the CSS area, and transported the waste to the local landfill, thereby preventing that waste from entering the CSS. Refer to Section 7 (NMC 6) for additional details of the street sweeping program.

## 8.8.4 Solid Waste Reduction, Collection and Recycling

Providing adequate waste recycling and disposal services is important to CSS protection because it lessens the likelihood that residents will improperly dispose of solid waste and toxic contaminants that could then enter the CSS. Louisville Metro began curbside recyclables collections and yard waste collection and composting during the early 1990s. Other waste management practices include litter cleanups, bulk item pickups and a tire drop off location for residents where the tires are shredded for recycling.

## 8.8.4.1 Residential Solid Waste and Recyclables Collection

Louisville Metro has universal once-a-week garbage, yard waste and recycling collections for Urban Service Area residents in single family to eight-family dwellings. The Semi-Automated Pilot Cart program provided 80,000 large wheeled trash bins with lids to households in the Urban Service Area. This program was initiated to prevent animals from scattering garbage from open containers or ripping open plastic bags. In 2004, over 72,000 tons of garbage was collected in the urban area. Each household generated more than 1500 lbs of garbage.

The "Fully-Automated Litter Containment" program replaced old wire mesh trash baskets with covered, plastic trash baskets. These trash baskets are located throughout downtown Louisville and prevent liquid and small sized debris from falling out of the trash baskets.

Louisville Metro was named the winner of the Division One (population 250,000+) category for Cans for Cash: City Recycling Challenge held by the United States Conference of Mayors in September, 2005. The program challenged like-sized cities to compete the first two weeks in September to encourage recycling. Louisville had the most innovative education and marketing campaign to promote recycling and raise awareness about its importance over the long term. The City's campaign, dubbed "The Cantucky Derby - Race Against Cities" featured the Gallopalooza horse, Go for Gin, wearing a garland of red aluminum cans, as the mascot. Arco Aluminum was a sponsor of the event.

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## 8.8.4.2 Yard Waste Collection and Composting

Yard waste is collected weekly and is taken to a compost facility. Compost is sold back to the residents. A drop off location for Christmas trees is established each year and advertised on the radio and mentioned during local newscasts. The trees are shredded and added to the municipal compost operation. The Louisville Zoo composts manures and sells the product as "zoodoo." Louisville Metro Solid Waste Management provides presentations and publications to encourage establishment of residential compost piles for yard waste, and annually publishes reminders to resident to keep leaves out of street gutters. The Air Pollution Control District's "Lawn Care for Cleaner Air" program also encourages composting and mulching.

## 8.8.4.3 Recycling

Recyclables are collected separately from garbage once per week. Louisville Metro provides orange plastic bins for household recycling in the Urban Service Area. Glass, metal, plastic, newspaper, cardboard and other household paper items are accepted. Louisville Metro's overall recycling programs diverted nearly 19,000 tons of recyclable materials from the solid waste stream in 2004. Louisville Metro also collects office paper from the Urban Service Area agencies and downtown businesses for recycling.

In addition to the urban area curbside recycling, Louisville Metro has 14 recycling drop-off centers located at public buildings and fire stations. These centers accept curbside recycling items plus household batteries. Oils and fluids from Louisville Metro vehicles are collected and properly recycled or recovered. Refer to Item 8-4 in the NMC Supplemental Information binder for a Louisville Metro brochure/poster distributed to inform residents of recycling opportunities.

#### 8.8.5 Litter Control

Brightside is a Louisville Metro government public-private collaboration that promotes civic pride by partnering with citizens to keep the community clean, green and environmentally aware. Brightside organizes community-wide and neighborhood cleanups and oversees more than 75 BrightSites throughout Louisville Metro. Brightside involves the community in special projects and programs such as Green Mile, the Fred Wiche Award and environmental education programs.

Brightside hosted a "Litter-Free Louisville Summit" in January, 2006 as part of the ongoing community-wide "Keep It Clean" campaign. The Summit brought more than 80 business, civic and neighborhood leaders together to discuss issues pertaining to all forms of litter and to develop new tactics to reduce litter across Louisville. Mayor Jerry Abramson, who created Brightside in 1987 to mobilize the city to become more clean and green with year-round cleanups and new initiatives, challenged citizens and businesses to become involved in cleaning up the community. Sponsors of the Litter-Free Louisville Summit included: BIRP- Business Industry Recycling Program, Galt House Hotel & Suites, Keep America Beautiful, and White Castle.



Outcomes of the "Litter-Free Louisville Summit" included: A pilot program to notify litterers of violating the law. Louisville Metro Solid Waste Management workers and more than 150 Bee Line Courier drivers call MetroCall 311 to report litterers, providing car license-plate numbers, vehicle description, and details of the incident. The owner of the vehicle receives a letter including the details of the littering incident along with a Brightside car litter bag and a reminder of the state law prohibiting littering with penalties up to \$500, 12 months in jail, or both. Several auto dealerships, oil-change locations, car washes and auto-repair shops throughout Louisville



will begin placing litter bags in vehicles that are purchased or serviced. Refer to Item 8-4 of the NMC Supplementary Information binder for an example of the Brightside litter bag. Six organizations were added to the list of businesses, schools and community groups whose volunteers clean community roadways through the Brightside Green Mile program. Those organizations include: Brown-Forman, Brownsboro Paint and Hardware, California Neighborhood Association, Jefferson County Public Schools, Pepsi and the City of Rolling Hills.

In addition, Mayor Abramson formed a Litter-Free Louisville citizen task force and charged agencies of city government to develop campaigns to address cigarette litter and temporary signs illegally placed in the public right-of-way – known as "street spam."

Abramson said Brightside and other city departments have together made progress in combating litter. Increased litter removal and education efforts include: more than 50 "Green Miles" adopted; citizen volunteers cleared more than 80 tons of trash in 2005; inmate crews cleared more than 26 tons of trash last year; supplemental winter interstate cleanups cleared almost 150 tons of trash; sidewalk sweeping was made available to neighborhoods conducting cleanups; street sweeping was made available for suburban arteries for the first time, with more than 1,000 miles cleaned to date; decorative trashcans were purchased for downtown and distributed to Metro Council representatives for each district; partnerships with schools implemented the "Keep It Clean" competition in 17 area high schools and featured litter prevention in the Eco-Drama program available to all 3rd grade classrooms.

## 8.8.5.1 Neighborhood Cleanups

Thousands of people participate as individual volunteers, civic organizations, and businesses in neighborhood cleanups throughout the year. Brightside supplies trash bags, brooms, and gloves and coordinates special collection and/or disposal of the debris after the cleanup. In addition, large intensive one-day efforts such as the Pre-Derby Cleanup are held community-wide.

#### 8.8.5.2 Clean Sweep Program

This partnership between Brightside and the Transit Authority of River City targets litter at bus shelters throughout Louisville Metro. The Clean Sweep Program includes removal of litter and graffiti followed by power washing the sidewalk and bench each month. Thirteen "Hot Spot" bus shelter locations throughout Louisville are cleaned twice daily (except for federal holidays) and an additional 22 locations are cleaned once each weekday. TARC and Brightside selected the sites on a "most needed" basis. The effort is made possible by a donation of \$75,000 from TARC.

#### 8.8.5.3 "Brightsites"

Many neighborhood civic groups and businesses have purchased Brightsites, or landscaped intersections, medians and small street-side parks in this program that replaces weeds and litter with plants and flowers. Brightside also manages a popular Community Garden Program with gardens scattered on vacant lots acquired throughout Louisville.

#### 8.8.5.4 The Green Mile Program

This anti-litter campaign operated by Brightside is similar to the Adopt-a-Highway on state-maintained roads. Green Mile allows groups or businesses to keep stretches of Metro roads clean and litter-free. Groups that sign up receive recognition on special signage at the site. More than thirty different organizations, some with multiple locations, maintain Green Miles. More than fifty miles of Louisville Metro streets are adopted as Green Miles.

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#### 8.8.6 Animal Waste Ordinance

Merger of the governments of the City of Louisville with the Jefferson Fiscal Court had the effect that ordinances, regulations and codes of each governmental body were adopted by the merged Louisville Metro government. One advantage of this was that environmental protections that had been previously adopted by one body now apply to all.

As an example, §91.011 was a Jefferson County ordinance that required the owner or person in charge of a pet animal to have in his or her possession, a suitable device for the picking up, collection and proper sanitary disposal of the animal feces or manure from any animal that was allowed in public. This ordinance requires the owner or person in control of a dog to immediately remove all feces deposited by the animal in another person's yard or in a pubic easement or park and dispose of it in a sanitary manner. The section was adopted as Louisville Metro Ordinance No. 97-2003, approved 5-16-2003.

## 8.8.7 Control of Fertilizers, Pesticides and De-icing Chemicals

Municipal operations have the potential to release toxic materials that may then wash off during wet weather. Activities such as street de-icing and use of fertilizers, pesticides or herbicides as well as chemical materials storage must be managed properly to prevent pollution through minimizing exposure of potential pollutants to rainfall and runoff. MSD and Louisville Metro strive to reduce the amounts of chemicals used in their operations and to substitute less-toxic alternatives when feasible.

#### 8.8.7.1 Herbicide, Pesticide and Fertilizer Use Minimization

Louisville Metro Public Works uses herbicides and pesticides to control weeds and vectors in vacant lots. The Metro Parks Department uses herbicides and fertilizers on golf courses and at some parks when needed. All public employees who apply pesticides are trained and certified as Pest Control Applicators.

The MSD biosolids product Louisville Green is marketed locally as a soil conditioning organic fertilizer. Louisville Green is a slow release 5-3-0 high organic-content product. Metro Parks now uses Louisville Green on its golf course and parks facilities. Refer to Item 8-4 in the NMC Supplemental Information binder for a public education brochure and a magazine advertisement that encourage the public to use Louisville Green.

## 8.8.7.2 Community Mosquito Control

In 2002, there were 28 confirmed human cases of illness caused by West Nile Virus in the Louisville Metro area, including two West Nile Virus related deaths. West Nile virus was also found in ten horses, 63 birds, and 19 mosquito samples in Metro Louisville during 2002.

The Louisville Metro Health Department initiated a coordinated mosquito control program in 2003 to address this public health threat. The program includes pesticide applicator certification training and coordination among various Metro agencies that treat mosquito-infested areas and that provide public education regarding mosquito control. The educational aspect emphasizes removal of containers of standing water where mosquitoes breed. The goal is to efficiently reduce the mosquito population in Metro Louisville and subsequently reduce mosquito-borne disease transmission, improving the health and quality of life for the residents. By developing a community approach to mosquito control and partnering with numerous metro government agencies and community partners, more people were working towards reducing the mosquito



population, thereby reducing the chance for mosquito borne disease transmission, while coordinated efforts to reduce standing water minimized the over-application of pesticides.

The continuing coordinated effort reduced human illness caused by West Nile Virus by 96%, and there were no further deaths from the disease. More than 200 MSD and Metro agency staff members receive annual training as pesticide applicators to safely manage pesticides. Refer to Item 8-4 in the NMC Supplemental Information binder for a course outline of the training provided to MSD employees who are involved in mosquito control activities.

#### 8.8.7.3 De-Icing Program

Snow coordinators in Metro Government review the snow and ice removal plan each year. Some routes are added and others are subtracted, but the goal remains the same – to make sure that city residents can get to school, work or the hospital. The city clears about one-third of the 3,000 miles of roads in the community, which includes major thoroughfares, school routes, hospital routes and arteries that feed major employers. Another one-third of the roads are cleared by the state, small cities and private contractors, and the remaining third are neighborhood streets that are not cleared.

Louisville Metro keeps 17,500 tons of salt on hand at seven domes and covered storage facilities during the winter. An additional 17,500 tons is stored underground for emergency reserve. Louisville Metro calibrates salt spreaders annually. Salt is pre-wetted with liquid calcium chloride based on temperature at the time of application. Calcium chloride addition allows salt to melt ice at colder temperatures and is less toxic than sodium chloride. Salt is applied to damp pavement at the beginning of a winter storm before ice forms in order to minimize the amount of dry salt blown away or thrown aside by vehicle tires. All salt spreaders are ground speed controlled. A predetermined rate is applied based upon the speed of the truck. Brine trucks were purchased in 2005 to enable pre-treatment of pavement before onset of winter storms. Brine application reduces salt usage because the brine adheres to the pavement and prevents icepack formation beneath snow accumulation. Plowing is then more effective and does not remove the brine as it would remove loose salt.

Three agencies within Louisville Metro maintain routes for snow removal and de-icing and other Louisville Metro routes are operated by the Kentucky Transportation Cabinet, District 5 and MSD. Louisville Metro holds in an annual meeting for these agencies to discuss snow removal and de-icing and to evaluate best techniques and practices. Louisville Metro performs yearly Internet research to learn about new application practices and technologies.

## 8.8.8 Illegal Dumping

Federal, state and local laws, regulations and ordinances prohibit dumping and discharge of wastes in unpermitted locations. The KYDEP Louisville Regional Office enforces the state regulations governing solid waste and hazardous waste disposal. Kentucky PRIDE is a state-wide program that addresses open dumping and littering, while the Louisville Metro Health Department also inspects and issues citations and cleanup orders for local illegal dumps. "No Dumping" signs are posted in locations that have been used for dumping in the past. The Urban Service Area is universally served by Louisville Metro Solid Waste Management Services curbside pickup of waste and recyclables. Illegal dumping is comparatively rare in the CSS relative to the more suburban areas where residents must individually contract for private solid waste services.

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## 8.8.9 Bulk Refuse Disposal

Louisville Metro holds quarterly residential curbside collections for bulky items in the urban service area in an effort called "Project Pickup". The department collected more than 51,000 tons of junk during 2004.

The Waste Reduction Center on Meriwether Avenue accepts dropped-off bulk and household items from Louisville Metro residents. Residents are charged a fee depending on the quantity of the items. Scrapped metal items from the Waste Reduction Center and appliances, as well as any Freon or hazardous materials from the appliances are recycled / recovered under contract. In addition, up to four used tires are accepted from residents. The tires are shredded onsite and marketed for beneficial reuse.

Twice a year Louisville Metro has a "Commissioners Junk Drop-Off" day, usually in April and October. These temporary sites allow drop-off of anything other than tires, yard waste and hazardous materials.

## 8.8.10 Household Hazardous Waste

Louisville Metro Solid Waste Management Services operates the Haz-Bin, a permanent household hazardous waste drop-off center. The center takes solvents, pesticides, insecticides and any other household toxic, corrosive, reactive and ignitable wastes. Appliances are accepted on specific appliance days at the Grade Lane site and are recycled. Non-asbestos roofing shingles are also recycled.

# 8.9 WET WEATHER FLOW MINIMIZATION AND WATER CONSERVATION

Combined sewers overflow in response to wet weather events because the stormwater volume that enters the sewers during precipitation events is added to the wastewater volume in the sewer. Reducing wastewater volume, in addition to stormwater runoff volume, can reduce the frequency and duration of CSOs.

# 8.9.1 Discharge Volume Reduction Incentives

Drainage fees, water and sewer use charges and sewer quality charges naturally encourage water conservation by providing financial incentives to use and discharge less water. Wastewater discharge permit status for Significant Industrial Users is required by the pretreatment program regulations to be based on process wastewater discharge volume. Drainage fees are based on measured impervious surface area.

Fees based on volume consumed encourage water conservation because the actual volume and wastewater strength that is discharged is directly controlled by the user. Financial incentives to reduce those fees are inherent in the rate schedules for drainage, water use and sewer use. Industrial users may have the opportunity to become non-significant users if they reduce discharge volume below the SIU criteria.

# 8.9.2 Landscaping for Wet Weather Runoff Control

Wet weather runoff velocity and volume can be reduced by proper landscape management. Rain barrels, rain gardens and vegetation with native tree and shrub species contribute to runoff reductions. Trees are valuable for decreasing and slowing runoff as well as cooling the runoff temperature. Classes, workdays and seminars are regularly offered to the community on implementing these landscape modification techniques.



MSD installed a demonstration Rain Garden and several Rain Barrels on private residential properties located in the combined sewer system at 1852 and 1850 Harvard Drive in the Belknap Neighborhood during the week of April 10, 2006. Benefits of the downspout disconnection and rain barrel educational programs are removal of clean stormwater from the combined sewer system. Refer to Item 8-4 in the NMC Supplemental Information binder for a brochure titled "Rain Barrels" that is distributed to encourage their installation by residents.

MSD moved into its new Central Maintenance Facility in 2001. The facility, located in the CSS, included in its construction a wetlands pond stormwater detention basin that collects stormwater from neighboring properties and provides habitat for wetlands species. Sub-grade vegetated islands were installed in the parking lot with curb cuts and pavement slope drainage patterns that channel runoff toward these islands. The islands are planted with native wetland-tolerant shrub and tree species. Shade trees such as sycamore, tulip tree/yellow poplar, oak and river birch were planted in wide unpaved areas around the building and in the parking lot islands to provide tree canopy. Downspouts were routed onto the vegetated areas where possible to increase the potential for groundwater infiltration and to water the vegetation.

# 8.9.3 Long-term Community Planning

Cornerstone 2020 was a community-wide long-term planning process. The goal developed by the project was that Louisville Metro become a community widely recognized for its quality of life, sense of tradition and competitive spirit with a livable, vibrant and economically diverse community. To develop a plan that is both broad enough and flexible enough to guide development for the next 25 years, citizens, business and government leaders, resource people and staff were organized into several key committees. The Livability Committee studied issues such as parks, open space, natural resources, sewer and water service, and other environmental issues. The Livability Committee worked on transportation for people and goods, including strategies to create more efficient connections between places where people live, work, shop and enjoy leisure time, as well as to provide for non-automotive travel. The Louisville Metro Land Development Code was amended in July 2004 to implement the additional green space requirements and protections to riparian zones envisioned in Cornerstone 2020. The Land Development Code may be found on the Louisville Metro website at <a href="https://www.louisvileky.gov">www.louisvileky.gov</a>.

## **8.10 COMPLIANCE SUMMARY**

Throughout MSD and Louisville Metro, preventing pollution is a daily activity for agency operations, residents, firefighters and MSD employees. Pollution prevention is inherent in programs that prevent silt and sediment discharges to combined sewers, clean streets and catch basins, manage solid waste, promote recycling and composting, reduce chemical use, regulate hazardous materials management, as well as implement water conservation and wet weather discharge minimization efforts. MSD and Louisville Metro educate the public on their role in preventing pollution via websites, advertisements, newsletters, volunteer opportunities, theater productions, classes and workshops and by publishing pamphlets, posters, brochures and books. Additional educational campaigns address potential commercial sector-specific pollutant contributions. Benefits of a "soft" approach to environmental compliance and improvement are not always measurable, but the level of participation and enthusiasm for voluntary pollution prevention activities such as the Beargrass Creek Watershed Symposium and the Green Mile program is high, and new events such as the Litter Summit demonstrate that the community is actively seeking to enhance its pollution prevention and environmental improvement programs.

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# 8.11 LISTING OF SUPPLEMENTAL INFORMATION

Item 8-1 Grease pollution Prevention Program Materials for Food Service Establishments

- Training Video on CD ROM
- DO/DON'T Poster for Restaurants
- Article in Vol. II, Issue V of Kentucky Restaurant Association Magazine, "Prep"

Item 8-2 Mercury Pollution Prevention Program Educational Materials for Dental Offices

- Training Powerpoint Presentation on CD ROM
- BMP DO/DON'T Poster for Mercury Amalgam Management
- BMP/P2 Brochure

Item 8-3 Beargrass Creek Watershed State of the Streams Report

Item 8-4 Examples of Pollution Prevention Educational Materials

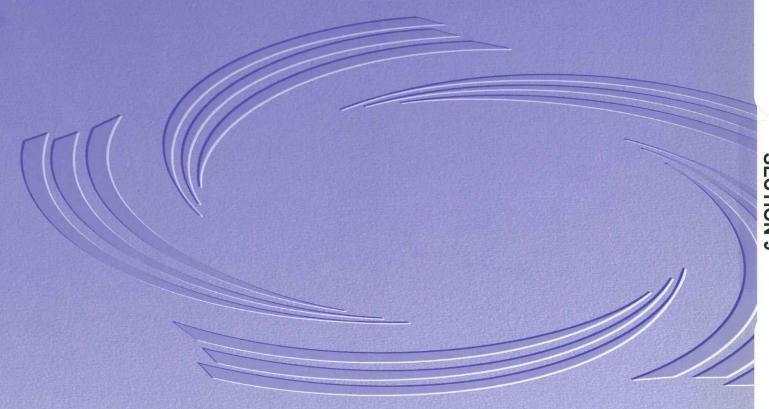
- · Fat Free Sewers
- Rain Barrels Not Just a Drop in the Bucket
- MSD Countywide Inflow and Infiltration Elimination Program
- Louisville Green All Organic Slow-Release-Nitrogen Fertilizer
- Working Together to Improve Chenoweth Run- Project XL
- River Sweep 2005
- Reclaiming the Health and Value of Our Streams
- What's Cooking in Your Backvard
- Louisville Metro Recycles brochure/poster
- Community Partnerships with Brightside
- MSD REPORT Summer 2004
- MSD Classes Lifelong Learning
- Pesticide Applicator Training Agenda
- Brightside litterbag
- Green Mile flyer
- Clean and Green Coloring Book

Item 8-5 MSD Annual Reports for years 2002, 2003 and 2005

Item 8-6 MSD Water Quality Report 2000

Item 8-7 50 years of service, A history of the first half-century of the Louisville and Jefferson County Metropolitan Sewer District







## **SECTION 9: NMC 8 – PUBLIC NOTIFICATION**

#### 9.1 INTRODUCTION

The objective of this control is to inform the public of the location of Combined Sewer Overflows (CSOs), the actual occurrences of CSOs, the possible health and environmental effects of CSOs, and the recreational or commercial activities curtailed as a result of CSOs. Public notification is of particular concern at recreational areas directly or indirectly affected by CSOs. The principal advantage of a notification program is the reduced exposure of the general public to potential health risks.

Per EPA's Guidance for Nine Minimum Controls, the municipality should take measures to adequately inform the public relative to CSOs. The most appropriate mechanism for public notification will probably vary with local circumstances, such as the character and size of the area and means of public access. The methods selected should be the most cost-effective and provide a reasonable assurance that the affected public is informed in a timely manner. Examples include signage posted at CSO outfalls and use areas affected by CSO discharges, notices in newspapers or on radio/television, letters to affected residents/businesses, telephone hot lines and web sites.

#### 9.2 PROGRAM OVERVIEW

MSD uses a variety of media to educate the public about the operation of the combined system. MSD educational materials reach almost every household in Louisville Metro via water bill inserts, press releases, email list servers, doorhangers, distribution at public events, training seminars, neighborhood meetings, presentations to community groups and the MSD website.

MSD publishes an annual report that provides the public with detailed information relative to MSD's CSO Abatement Program and a wide range of sewerage related issues. MSD also publishes a monthly newsletter titled "Update." This newsletter is distributed to over 2000 subscribers, plus several thousand more who download this publication on the MSD website. Starting in the September 2006 issue, a "Consent Decree Spotlight" feature has been added, to be run several times per year. The September feature discusses the revised procedures for public notification of sewer overflows. A copy of September's "Update" is included as Appendix 9-A at the back of this Section.

MSD has also implemented a CSO Public Information and Notification Program. The major focus of the program is to create an awareness of the CSO issues, history, potential impacts to the local environment, alternatives for mitigation, and the cost associated with mitigation. In support of this program, MSD developed a brochure entitled "Streams, Sewers and CSOs," which provides some history and background on CSOs. The brochure is being updated to provide additional information about overflows, protection of public health, and the enhanced notification procedures MSD is implementing. The updated brochure will be available for distribution to the public by September 30, 2006. MSD also produced a video entitled "Celebrate Our Streams" that contains 12 minutes of video focused on CSOs. Refer to Items 9-1 through 9-3, and Pollution Prevention Public Education Items 8-1 through 8-7, in the Supplemental Information binder for samples of public notification materials used by MSD over the years.



#### 9.3 SYSTEM CHARACTERIZATION

During the developmental stages of the CSO program, MSD conducted extensive field surveys of the combined sewer system and developed a CSO inventory. Signage was posted at CSO outfalls. In addition, MSD determined those areas used by the public that were in close proximity to a CSO and targeted them for signage.

Part of this effort included determining who in the community should receive notification, when they should be notified and the best method to disseminate the information. MSD reviewed available alternatives for dissemination of hard copy public education materials and decided that the best option is to use a combination of direct mail and bill inserts. In order to ensure appropriate dissemination of information concerning wet weather discharges, MSD will utilize the GIS to identify property owners in the vicinity of CSO outfalls, as well as those downstream that could be potentially impacted. MSD also reviewed available options for electronic distribution of information and whether real time dissemination was best or if it was best to use programmatic, after the fact notification.

#### 9.4 PUBLIC NOTIFICATION PLAN

MSD makes a concerted effort to ensure that the public is made aware of potential or actual overflows through both event-based public notification activities and programmatic (on-going) outreach and educational activities. Event-based activities are designed to notify the public to limit their contact with areas impacted by overflows. The programmatic educational outreach activities focus on providing the public with a heightened level of awareness concerning overflows, including the causes, potential health hazards, environmental impacts, MSD abatement activities and the public's role in helping to alleviate these conditions.

As part of this programmatic review and enhancement, the following initiatives will be performed:

- MSD will send a letter to all MSD customers by September 30, 2006, describing the
  enhanced public notification program, explaining the new signage being posted, and
  describing the wet weather program that the community is embarking on for the next 20
  years.
- In the spring of each year, MSD will provide a bill insert to be received by all MSD
  customers before the start of the recreational contact season. The insert will provide
  general overview and awareness information relating to public health.
- MSD has also prepared two doorhangers: one will be distributed to homeowners
  following a sewer backup that could have caused basement or surface flooding. The
  other doorhanger will be distributed to neighborhoods that could be affected by dry
  weather overflows that reach receiving waters in significant quantities. The notification
  matrix (Table 9-1) describes the distribution rationale and method for these notifications.
- MSD will also provide an annual mailing which provides general awareness and warning information about overflows and methods the public should take to protect its health. This mailing will be distributed to customers within 500 feet of Beargrass Creek (all three forks) and the Kentucky side of the Ohio River, as determined by a GIS plot. These customers are most impacted by the combined sewer system. The first annual mailing will be completed by September 30, 2006.
- Bilingual CSO notification signs have been placed at public access points on both sides of Beargrass Creek, and along the Kentucky side of the Ohio River.

Page 2 of 8



Overflow alert messages, to be placed as "screen crawls" during TV news broadcasts
and as alerts to be read during radio news broadcasts have been written and submitted
to local media. The messages will also be placed on the MSD website. Requests to run
these messages will be triggered anytime precipitation occurs in areas in or tributary to
the CSS that could result in overflows, as illustrated in Table 9-1.

TA	BLE 9–1	NOTIFIC	CATIO	N MATR	XIX		
Event & Trigger	Doorhanger (MSD responsding supupervisor)	Website Light – Red/Yellow/Green (Automatic trigger and MSD MSD	TV Screen Crawl MSD-1 (Automatic e-mail)	TV Screen Crawl MSD-2 (Manual Initiation)	Radio PSA MSD-1 (Automatiac e-ail)	Radio PSA MSD-2 (Manual Initiation)	Website Screen Crawl and e-mail listserve (Automatic trigger or MSD webmaster)
Prediction of significant rainfall		Yellow					X
Dry weather overflow		<u> </u>					
- Any volume (basement back- up etc)	Х						
- >1000 gallons	Х	Red		Х		Х	X
Measured Rainfall			5/10/10/00/0 w//11/00/0	•	· · · · · · · · · · · · · · · · · · ·	·	•
- >0.1 inch, rain gauges in CSS or tributary areas		Red	Х		Х		X
- >0.75 inch rain gauges anywhere in Jefferson County		Red	Х		Х		Х

MSD is also evaluating the feasibility and reliability of utilizing the community's E911 system to contact the public by a variety of methods (user selected) such as email, text message, fax, or telephone.

The following describes some of the major notification activities in more detail.

#### 9.4.1 Signage

Warning signs have been installed at each CSO and in areas where there is public access to the water body downstream of CSOs. Along Beargrass Creek, access points on both sides of the stream have signs posted. Along the Ohio River, signs have been posted on the Kentucky side of the river at potential access points. Signs are posted at public use areas downstream of documented overflow locations (e.g., parks, golf courses, schools, popular recreation spots, marinas, easy access locations, etc.). The sign siting criteria are presented in Table 9-2.



# Table 9-2 Signage Siting Criteria

- 1. Signs will be posted at documented overflow locations or within 100 feet upstream or downstream of the overflow locations, in the location most visibly practical, unless no access points are visible through field observation.
- 2. Where signs are posted, the message will be written in both English and Spanish.
- 3. Signs will be a minimum of 12 inches wide by 18 inches tall.
- 4. For overflow locations on the Ohio River, there will be signs at locations visible to the public from the Kentucky riverbank.
- 5. Signs will be posted at public use areas upstream or downstream of documented overflow locations (e.g., parks, golf courses, schools, popular recreation spots, marinas, easy access locations, etc).
- 6. Signs will be installed at visible entry/exit locations of trails, manmade paths, and access points along the stream.

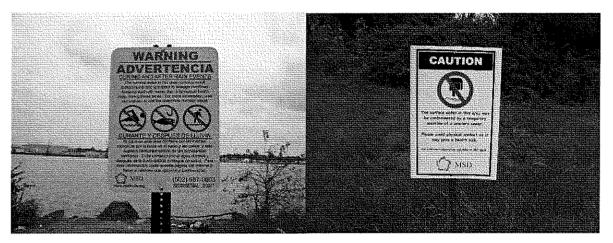


Figure 9-1 CSO Notification Sign

Figure 9-2 Overflow Notification Temporary Sign

Locating signs to comply with the criteria listed above is a 4-step process.

- The first step is determining locations for signs in accordance with the criteria. This activity will be completed by September 22, 2006.
- The second step is actually installing the signs. A typical sign installation is shown in Figure 9 1. All signs in the CSO area will be installed by September 30, 2006.
- The third step is documenting each sign location with GPS coordinates and a picture. An example of the sign location log is shown in Table 9 3. Sign documentation will be completed by September 30, 2006.
- The fourth step is on-going maintenance of the signs. An annual spring-time inspection
  will be made of all signs installed. Missing or defaced signs will be replaced, and some
  signs may be moved to more appropriate locations.

Section 9 Page 4 of 8



As of September 30, 2006, approximately 135 signs will have been posted in the CSO area in accordance with the sign siting criteria. The signs, which are written in both English and Spanish, include a phone number for customer inquiries. The phone number provided is answered by the MSD customer service unit, which is available 24 hours a day, 7 days a week. Refer to the Interim CSO Long Term Control Plan for a complete listing of CSOs.

MSD also developed temporary warning signs to be posted around overflow control zones as outlined in the Sewer Overflow Response Plan. An example of the temporary warning sign is shown in Fig 9-2.

#### 9.4.2 Public Notifications

MSD performs public notification in accordance with the Sewer Overflow Response Protocol (SORP) and corresponding Field Procedures Manual, both dated May 12, 2006. An enhanced notification program has been developed that reflects considerations such as the character and size of the area and means of public access, who should be informed, and when they should be informed.

This program includes expanded use of the various forms of media, with specific area-targeted notifications where appropriate. For general background and understanding, in addition to the informational letter sent to all customers, MSD will annually (every spring) distribute a sewer overflow fact sheet to homes located within 500 feet of Beargrass Creek or the Ohio River. A copy of this fact sheet is included as an attachment following this Section.

Informational doorhangers will also be used for overflows that occur in areas not posted with overflow warning signs. Copies of these doorhangers are included as attachments following this Section. The protocol for deciding when and where these doorhangers will be placed is as follows:

- Sewer Back-Up Doorhanger- When a sewer back-up is found or suspected to have occurred, MSD staff will place a doorhanger on houses on both sides of the street or stream, from the blockage point upstream to the next manhole, or further if the terrain indicates that the blockage could have affected more customers. The responding supervisor is responsible for making this determination. If the back-up results in a significant release of wastewater to any surface water, the Dry Weather Overflow Doorhanger will also be placed as noted below.
- <u>Dry Weather Overflow Doorhanger</u> After the overflow is contained and appropriate warning signs placed around the overflow point, the responding field staff will place doorhangers on houses on both sides of the street or stream for at least a 5-house radius (standard city block) of the overflow point. If the overflow was of significant volume and reached a stream not otherwise posted, the doorhangers will be placed on both sides of the stream for a distance not less than a standard city block, and further if the volume of the overflow compared to the stream volume warrants it. The responding supervisor is responsible for making this determination.

By September 30, MSD will also implement an automated overflow advisory notification of television and radio stations to broadcast warnings of sewer overflows. The combined sewer wet weather overflow advisories will be automatically triggered by MSD's rain gauge system. Automatic triggers will be configured to electronically submit requests to selected media outlets to read and/or scroll the supplied messages for either wet weather overflows (red condition) or isolated dry weather overflows. This same information will be transmitted to the general public



who sign up to receive these notifications on the MSD website. A second overflow notification will warn the public if a significant dry weather overflow has occurred that could be released to surface waters. The dry weather overflow notification will be manually triggered by the responding supervisor's overflow report in accordance with the SORP. The associated messages are shown in Table 9-3. An email notification will be transmitted every 24 hours for 48 hours after rainfall has ceased.

As described in 9.4.3, alerts will also be posted on the MSD website when rainfall is forecast that will likely trigger overflows, during rains, and for a period following rains to notify the public of overflows.

The enhanced public notification program is being prepared in conjunction with the SORP and will be implemented by the end of September 2006. Table 9-1 previously showed a matrix of notification activities that describes the circumstances or triggers that will activate the various notification methods.

#### **TABLE 9-3**

#### MSD-01 -Wet Weather Overflows

Recent rainfall has created the risk of sewer overflows in the Louisville Metro area. Avoid contact with water in streams, drainage ditches and standing water until 48 hours after the rain has stopped. Call MSD at 587-0603 or go to <a href="https://www.msdlouky.org">www.msdlouky.org</a> for information.

#### MSD-02 - Dry Weather Overflow

A sewer overflow has occurred in the \_\_\_\_\_ area of Louisville Metro. Avoid contact with water in streams, drainage ditches and standing water in this area and downstream for the next 48 hours. Call MSD at 587-0603 or go to www.msdlouky.org for information.

#### 9.4.3 MSD Website

MSD will add a feature to its website by September 30, 2006, to inform the public of the potential for overflows to occur. The MSD home page will include a simulated traffic light which will operate as follows: "green" for no overflows expected; "yellow" when higher than 50% probability of significant rainfall is predicted; "red" when rainfall occurs and conditions for overflows are likely. The MSD rain gauge network is utilized for this purpose. "Red" condition to be triggered when either of the following conditions are met:

- When one of the selected rain gages within the combined sewer system records greater than or equal to 1/10-inch of rain
- When any one rain gage in the entire combined or separate system records ¾-inch of rain.

The traffic light will remain red for 48 hours after the rainfall has ended to reinforce the message that the public should avoid contact with surface water for 48 hours after rainfall has ceased. Reminder notifications will be triggered every 24 hours for as long as the traffic light is red.

## 9.4.4 Customer Inquiries (call center, online inquiry system)

MSD's Customer Relations Call Center (CRCC) personnel are trained to answer questions from the public regarding discharges and CSOs, and are available 24 hours a day, 7 days a week.

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Signage and disseminated information include contact names and telephone numbers so the public will know who to call. Calls from customers are received by the MSD Customer Relations Call Center (CRCC) and are logged into Hansen™ as Customer Service Requests (CSR). Customers may also enter customer service requests (CSRs) online and may check on their status at <a href="http://www.msdlouky.org">http://www.msdlouky.org</a>. Once the CSR has been entered into Hansen™, a responsible department/division is assigned and the CSR is routed for response.

A "Frequently Asked Questions" fact sheet has been prepared for use by CRCC personnel. This FAQ sheet will also be available for distribution at public meetings and other public gatherings as appropriate. The initial version of the FAQ sheet is included as Appendix 9-B. The FAQ will be revised periodically as the CRCC develops an expanded list of questions asked by customers.

#### 9.5 SUMMARY OF COMPLIANCE

MSD has utilized various methods in order to notify the public. Many of these efforts have also served to raise awareness of overflows and other water quality issues. Additional means and methods of notification have been employed in order to convey this information to potentially impacted communities. MSD will implement all elements of the enhanced public notification program by September 30, 2006. As part of this programmatic review and enhancement, the following initiatives will be performed.

- A letter/brochure mailing will be sent to every household in Louisville Metro. A similar
  information package will be distributed as a bill stuffer every spring, as a reminder to
  people who use our surface water for recreation.
- Signs have been posted along waters that could be impacted by CSOs. Signs have been posted on both sides of Beargrass Creek and the Kentucky side of the Ohio River.
- Temporary notification signs have been developed for use at overflows in areas not posted with warning signs.
- MSD has also prepared two doorhangers: one will be distributed to homeowners
  following a sewer backup that could have caused basement or surface flooding. The
  other doorhanger will be distributed to neighborhoods that could be affected by dry
  weather overflows that reach receiving waters in significant quantities.
- MSD will also provide an annual mailing which provides general information about overflows and methods the public should take to protect its health. This mailing will be distributed annually to areas within 500 feet of receiving waters potentially affected by sewer overflows as described previously.
- Overflow advisory messages, to be placed as "screen crawls" during TV news
  broadcasts and as alerts to be read during radio news broadcasts have been written and
  submitted to local media. The messages will also be placed on the MSD website.
  Requests to run these messages will automatically be triggered anytime precipitation
  occurs in areas in or tributary to the CSS that could result in overflows. At the same time
  as the media advisories are triggered, e-mail notifications will be sent to individuals who
  have registered on MSD's web site to receive these notifications.
- MSD's web site home page is being modified to include a "green-yellow-red" light overflow notification.

MSD is also evaluating the feasibility and reliability of utilizing the community's E911 system to contact by a variety of methods (user selected) such as email, text message, fax, or telephone.



# 9.6 Listing of SUPPLEMENTAL information

- Item 9-1 Challenges for the Community: An MSD Perspective
- Item 9-2a Public Notification Sample Materials
- Item 9-2b Previous Public Notification Sample Materials
  - Brochure (to be revised)
  - Video
  - Bill inserts
  - MSD 2004 Annual Report

News About Louisville and Jefferson County Metropolitan Sewer District

# Update

September 2006

"We are providing a higher level of service, which brings a greater acceptance of our rates and we're very proud of that." – Bud Schardein



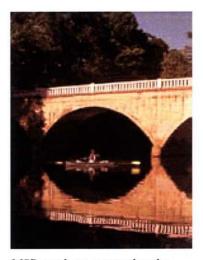
More than 600 MSD employees gathered for annual employee meetings held at the Central Maintenance Facility, the Main Office and wastewater treatment plants.

## Service excellence praised at annual employee meetings

Extending MSD's open-door policy, Executive Director Bud Schardein and division directors opened doors to MSD facilities across Metro Louisville during a series of employee meetings held in August. "Having more than 600 employees makes it challenging for us to ensure all of our employees understand our new initiatives, our administrative policies and — most importantly — that we hear about all the outstanding work they've been doing," said Schardein.

During the series of 10 employee meetings, visits were made to the Central Maintenance Facility and wastewater treatment plants. Time during the meetings was dedicated mostly to addressing employee questions and comments, but Schardein and division directors also discussed ongoing initiatives such as clean water, flood protection and the continuation of Project DRI.

Citing the efforts of the employees, Schardein noted, "We are providing a higher level of service, which brings a greater acceptance of our rates and we're very proud of that."



MSD works to ensure that the community can enjoy clean waterways such as Harrods Creek. However, these areas should be avoided during and after heavy rains.

#### Consent Decree Spotlight

#### **Expanded Public Notification Relative to Use of Our Waterways**

MSD is expanding its public notification and education program as it relates to water pollution problems in our community's drainage channels, streams, and the Ohio River during and after rain events. MSD monitors surface water runoff for pollutants from both flooding and water quality perspectives. Our drainage channels, streams, and the Ohio River are subject to urban runoff contaminants such as fertilizers, petroleum products and other lawn treatments, and may be subject to sewage overflows during and after rain events.

Some of the new notification and education efforts will be in place in the next month, including additional signage in areas of sanitary sewer and combined sewer overflows, as well as along other potentially impacted streams and river banks. We will also be sending a letter to customers and posting information on our Web site with procedures for signing up to receive additional communications during and after measurable rain storms.

Care should be taken to avoid contact with surface streams and the Ohio River during and after rain storms to minimize health risks associated with urban runoff and sewage overflows. MSD continues to reduce and eliminate the occurrences and locations of sewer overflows, but much work needs to be done. MSD wants everyone to enjoy our local waterways, but also wants to protect our community when pollution levels are high.



CONNECT WITH US
 24/7 Customer Relations:
 502-587-0603
 TDD/TTY: 502-540-6233

 www.msdlouky.org
 En español: 502-540-6423
 (De 8 de la mañana a 5 de la tarde, de Lunes a Viernes)

#### Upcoming **Events**

September 4 MSD offices will be closed.

For emergency service anytime, phone MSD's Customer Relations Department at 587-0603.

September 7 DiverseWorks for You **Certification Orientation** 9 a.m., 700 W. Liberty, first floor

September 11 **MSD Board Meeting** 10 a.m., 700 W. Liberty, first floor

September 25 MSD Board Meeting 10 a.m., 700 W. Liberty, first floor

October 12 **MSD Retirees Club** meeting and luncheon

11 a.m., Masterson's Restaurant, Atrium B

#### MSD Milestones

We are proud to announce: MSD Budget and Finance Director Marion Gee was profiled in the July 28 issue of Business First.

Laboratory Manager Zonetta English has received the August 2006 Award of Excellence from the U.S. Environmental Protection Agency's Environmental Laboratory Advisory Board.

Welcome to MSD: Robert Carradine, Utility Trainee Austin Duvall, Utility Trainee William Phillips, Utility Trainee Eric Sowards, Utility Trainee

Congratulations on your promotions: Eddie McAfee, Utility Worker III Donnie Stirneman. Utility Worker III

Changing the pace: David Floyd, Utility Worker II

- from Drainage to Physical Assets

We will miss: Dave Carty, retired July 31

#### **Certified Success**

DiverseWorks for these recently certified businesses: Clean Solutions (WBE)

Carpet cleaning, floor scrubbing and refinishing, floor waxing and janitorial supplies Contact: Honey Paine, 502/778-6880

#### Area Team News

#### **Development Team:**

An 18-condominium development at Factory Lane and Old Henry Road will receive sewer service as part of an agreement with MSD to plan for future area development. LC Capital, LLC, will install a sewer interceptor that would allow the elimination of one of Woodmont's pumping stations. The new sewer system also will divert wastewater, which is currently treated by the Oldham County Sanitation District, to be treated by MSD facilities. MSD will pay \$108,668 for the excess costs of the developer.

Floyds Fork/North County/Operations Area Team: Neighbors near the 27th Street pumping station will be better protected from flooding when a sluice gate actuator is replaced at the station. Sluice gates are opened or closed during floods to block flow. The \$64,000 project includes replacement of the gate, electric motorized actuators, weather enclosures and other fixtures.

Webster Environmental Associates will provide technical expertise and consulting regarding odor control measures at the Morris Forman, Cedar Creek and other wastewater treatment plants. For \$118,855, Webster will investigate odor complaints, conduct system testing and design odor control improvements.

MSD has selected CH2M Hill to provide engineering consulting services regarding process, structural and operational objectives at the Morris Forman Wastewater Treatment Plant. Specifically, the firm will help MSD market Louisville Green, design concrete repairs for the plant's decant tanks and design electrical modifications for the plant's effluent pump station.

Equipment used in the alternative solids process at the Morris Forman Wastewater Treatment Plant will be coated with a hardened metal material to prevent wear and reduce maintenance on the equipment. The improvements to the drying mixers will cost \$77,426.

In order to further reduce odors at the West County Wastewater Treatment Plant, construction will soon take place to install aluminum covers, which will enclose treatment processes and pipe air to an existing biofilter. The project will cost \$105,000.



A sewer rehabilitation project along Running Fox Circle has corrected low spots in the sewer line which have caused repeated backups for 13 of 30 area properties in the past five years.

#### Pond Creek/Mill Creek Area Team:

Pond Creek/Mill Creek Area

Since a sewer replacement project began on Running Fox Circle near Fern Creek Road, construction crews have discovered several sags in the existing sewer line that need to be repaired. The roadway, which has been damaged due to heavy equipment and inadequate sub-grade foundation, also will be repaired. The project will cost \$279,724 and will be completed without disrupting service.

Construction will soon take place for the Watterson Woods Sanitary Sewer project impacting property owners near Watterson Trail and Stony Brook Drive. Approximately 1,830 feet of pipe will be installed and wastewater flow will be diverted from the Watterson Woods Wastewater Treatment Plant, which will be taken off-line and demolished. The project will cost \$597,213.

#### Project DRI Progress

Project DRI has improved drainage throughout the Metro area with 381 projects completed during Phase 1. Since Phase 2 began in 2005, 45 percent of 345 planned projects are either underway or completed.

# Future 55%

#### Project DRI Phase 2

#### **Drainage Response Initiative Projects**

The Project DRI partnership between Louisville Metro and MSD is solving drainage problems throughout the community. These projects are ready for construction:

- A \$201,040 project along Anita Boulevard and El Prado Street will include installation of side-yard pipe, roadside paved swales, earthen swales and the replacement of driveway culverts and aprons. The project, which also involves several properties along Granada Drive, will address approximately 14 service requests and impact 49 properties.
- Rear-yard drainage improvements will be performed through a \$64,100 project on **Dunkirk Lane** in the Valley Village Subdivision. Nine service requests will be addressed and 32 area properties will benefit from the project to correct a poorly defined drainage system.
- Three hundred feet of paved swale will be installed and driveway aprons and culverts will be replaced along Mary Ellen Drive to eliminate standing water. The \$83,650 project will address nine service requests and benefit an additional 45 properties.
- Approximately 1,160 feet of rear-yard drainage improvements will be performed to correct a poorly defined drainage system between Red Oak Lane and Red Fern Road. The \$108,980 project will address six service requests and benefit 35 properties.
- Eight service requests will be resolved and 92 properties will benefit from improvements to alleviate standing water in driveways and roadways along Richmont and Shagbark roads. Roadside pipe and a yard-drain system will be installed, roadside swales will be regraded and driveway aprons will be replaced as part of the \$188,351 project. The project includes portions of Broadleaf and Oboe drives.
- Eighteen service requests will be addressed through improvements along **Tin Dor** and **Kirsch** ways. Paved swales will be installed and driveway aprons will be replaced with the \$101,175 project, which benefits 54 properties.
- A roadside paved swale, driveway aprons and culverts will be constructed along Winslow Drive, including Albion Drive, to resolve approximately 12 service requests regarding a poorly defined drainage system. The \$63,760 project also will include a rear-yard paved ditch between Juanita Lane and Winslow Drive and benefit 31 properties.

#### New Action Plan explores Jeffersontown expansion

MSD will explore ways to better use the capacity of the Floyds Fork Wastewater Treatment Plant by expanding its service area south and east of the plant. Specifically, the plan will determine the potential to divert wastewater from the Jeffersontown Wastewater Treatment Plant and pinpoint any changes the expansion may have on plant capacity. It also will examine how continued growth and development will impact the plant over the next 20 years.

The original Floyds Fork Action Plan, completed in 2004, made recommendations to eliminate 10 MSD and two private treatment plants and to provide regional wastewater treatment service to areas in northeastern Jefferson County. The Floyds Fork Wastewater Treatment Plant, located near Shelbyville Road, has been in operation since 2001. It has the capacity to treat 3.25 million gallons of wastewater per day.

Strand Associates was selected to perform the study and create the action plan based on their previous experience with MSD. The firm recently completed the 2004 Floyds Fork Service Area Update Master Plan.

#### **Customer First** at Work

"When I called on Saturday night I expected to get a recorded message, however, my call was answered by Leila Cunningham. Within an hour, Terry Richardson was here to analyze the problem. Thank you for your timely service." - Betty Kassulke, St. Matthews

"Jill Allen did an outstanding job diagnosing the problem. She followed through on all phases of the solution. We've had several rains since the completion of the project and the ditch has functioned as we were told it would."

 Don and Regina Stinson, Fairdale

"After I reported a force main break located on my property, I woke the next morning to find that a nearby pump station was taken off line to prevent further spillage, a repair contractor had been mobilized, utility locates were in progress and the appropriate warning signs had been positioned around the area. Thank you, Kevin Ries for a job well done."

 Gary J. Swanson, PE, Copperfield Subdivision

"Darrell Goodwin and Sean Brown were very courteous, helpful and efficient. My compliments to their work." - Mitch Charney, Glenview

#### Peer-to-Peer Praise

"Process Specialist Mike Carter filled in at the last minute to present an environmental education tour to 27 teenagers, five teachers and two UofL professors. Mike is a great example of how MSD employees have incorporated additional duties into their busy schedules."

- Phyllis Croce, Eric Brady and Dennis Thomasson, MSD



Louisville and Jefferson County Metropolitan Sewer District

700 West Liberty Street Louisville, KY 40203-1911



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Sewer District and the Louisville
Water Company.
All Rights Reserved.



Above: Porous concrete is installed in a two-foot strip along the curb of Liberty Street to catch stormwater runoff before it enters the drainage system.

## Concrete test aims to reduce sewer overflows

One of MSD's efforts to reduce sewage overflows is taking place just outside of its administrative offices. Porous concrete, which is designed to allow stormwater to seep through rather than drain off, has been installed in a two-foot strip along the curb of Liberty Street.

Ideally, the concrete, which resembles compacted gravel, will reduce the amount of stormwater that enters the sewer system. When stormwater and wastewater overwhelm the system, dangerous overflows occur in the city's waterways.

"If the concrete works as we hope it will, the stormwater that seeps into the ground will contain less pollutants since it hasn't washed across the roadways and collected urban contaminants," said MSD Executive Director Bud Schardein.



The new concrete was installed in August. MSD will monitor stormwater entering catch basins near the test site to determine the concrete's effectiveness. The initial test site was installed last year at a parking lot for the Girl Scouts of Kentuckiana's new headquarters on Lexington Road.

Left: Porous concrete contains less lime and finer particles than ordinary concrete.

#### **Frequently Asked Questions**

#### What is a combined sewer system?

In a combined sewer system, wastewater (from homes, businesses, and industries) and stormwater (from rain, melted snow, ice, etc.) are collected in the same sewer pipe. In dry weather, wastewater flow would typically go to a wastewater treatment plant. In an overflow event, some combined sewage and stormwater is flows or is released directly to streams.

#### What is a sanitary sewer system?

In a sanitary sewer system, the pipes are designed to collect and convey only wastewater. Stormwater, sump pumps, foundation drains or roof drains flow directly into streams.

#### What is a sewer overflow?

Some sewer systems are designed so that, when sewers become overloaded with too much flow, the water exits the sewer system and overflows into a nearby body of water through a relief sewer. This prevents excess flow from backing up into the street or people's homes. The overflow may contain untreated sewage. Overflows may also happen because stormwater or groundwater has leaked into sanitary sewer pipes and there are openings in the pipes through which the sewage overflows.

#### What is an outfall?

An outfall is the place where a sewer, drain, or stream discharges, or the point where treated wastewater is discharged into receiving waters.

#### What is an outfall sewer?

An outfall sewer receives wastewater from a system of sewer pipes or from a wastewater treatment plant and carries it to a point of ultimate or final discharge in the environment.

#### What should I do in the event of a sewer overflow?

The most important thing to do is to stay away from water in ditches, streams and rivers during and after rainfall. This is when overflows are most likely to occur, although they may occasionally occur during dry weather. (MSD will immediately notify the public when substantial dry weather overflows occur.) If you do come into contact with water that has been contaminated by a sewer overflow, you should wash with warm water and soap before touching any surfaces, persons or food.

#### What will happen if I come into contact with contaminated water?

It depends on how long and how much contact you had. If you swallow water mixed with sewage, you might become ill and need to seek medical attention. If the contact was external – skin only – then a thorough washing with soap and warm water will be sufficient to kill any bacteria you might have encountered. The best thing to do is avoid the water altogether.





# Play it SAFE with Sewer Overflows:

#### What You Need To Know:

In many areas of Louisville Metro, sewage and stormwater runoff flow into the same sewer pipe. When these sewers get too full, the excess overflows into local waterways.

Surface waters near your home may be subject to sewer overflows during wet weather. Sewage contains bacteria that could cause illness if ingested. MSD wants to ensure your safety during a sewer overflow.

We ask you to follow these simple rules:







 Avoid contact with creeks, streams, drainage ditches and standing water during and 48 hours after a rainfall. Don't swim, fish or play in water until at least 48 hours after rain has ended.

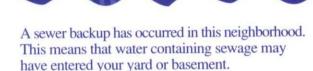
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**MSD** 

Louisville and Jefferson County Metropolitan Sewer District

# SEWER BACKUP



Check your basement and yard, and call MSD at (502) 587-0603 immediately if you find sewage in your basement or yard. *Do not try to clean it up yourself.* Call MSD for assistance and instructions, (502) 587-0603.







Please avoid contact with standing water, drainage ditches or nearby streams, as it may contain sewage and stormwater runoff contaminants that could make you sick. Keep children and pets away.

(Continued on back)



MSD

Louisville and Jefferson County Metropolitan Sewer District

## SEWER OVERFLOW WARNING







A sewer overflow has occurred in this area. Water containing sewage has been discharged from the sewer and may be on the ground, in drainage ditches or in nearby streams.

You are advised to avoid contact with creeks, streams, drainage ditches and standing water, as they may contain sewage and stormwater runoff contaminants that could make you sick.

If you, your family or your pets come in contact with possibly contaminated water, wash with warm, soapy water, especially before handling food.

For the next 48 hours, DO NOT SWIM, FISH or WADE in outdoor waters!

For additional information, call (502) 587-0603 or visit the MSD Web site at www.msdlouky.org to register for automatic e-mail notifications.



**MSD** 

Louisville and Jefferson County Metropolitan Sewer District

- · Always keep children and pets out of ponds, creeks, streams, drainage ditches and other places that might receive sewer overflows.
- If you come in contact with sewage, wash with warm, soapy water, especially before handling food.

MSD is working to improve the city's sewer system. Areas of overflow have already been reduced and will continue to diminish as our program progresses. In the meantime, we ask you to follow these simple safety precautions to protect your health and the health of your children and pets.

For additional information, call (502) 587-0603 or visit the MSD Web site at www.msdlouky.org to register for automatic e-mail notifications.

If you, your family or your pets come in contact with sewage or possibly contaminated surface water, wash with warm, soapy water, especially before handling food.

For additional information, call (502) 587-0603 or visit the MSD Web site at www.msdlouky.org to register for automatic e-mail notifications.



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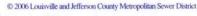


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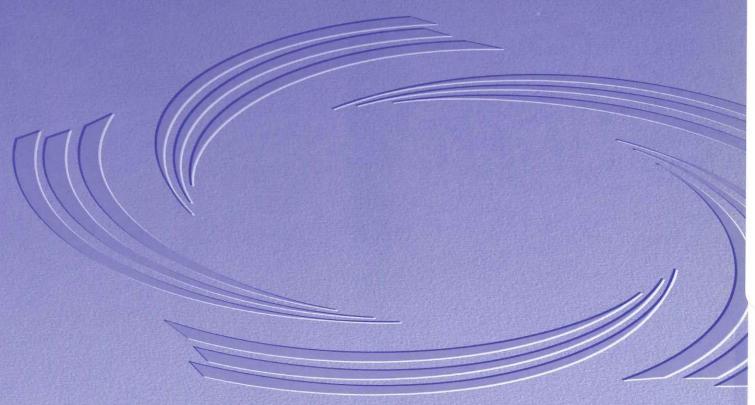


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### SECTION 10: NMC 9: MONITORING TO CHARACTERIZE CSO IMPACTS AND THE EFFICACY OF CSO CONTROLS

#### **10.1 INTRODUCTION**

As defined in the EPA guidance documents, the ninth minimum control requires visual inspections and other simple methods to determine the occurrence and apparent impacts of CSOs. This minimum control is an initial characterization of the CSS to collect and document information on overflow occurrences and known water quality problems and incidents that reflect use impairments caused by CSOs. Changes in the occurrences of such incidents can provide a preliminary indication of the effectiveness of the NMC. This minimum control is the precursor to the more extensive characterization and monitoring efforts required as part of MSD's current CSO Long Term Control Plan (LTCP) to assess changes in pollutant loadings or receiving water conditions. Adequate monitoring of the CSS and its receiving streams is required in order to characterize the sewer system. Monitoring the wastewater pollutants that are present in the CSS as well as the water quality of streams aids in understanding the impacts of CSOs on those streams and determines the efficacy of the CSO abatement actions.

Extensive and intensive surveillance, monitoring, and modeling projects have been performed to support current and past CSO Program activities. Many MSD projects and programs include monitoring as an important component and the monitoring data used in one project may be applicable to other programs in that watershed.

#### 10.2 OVERVIEW

MSD's CSO, SSO, MS4, and industrial compliance and hazardous materials regulatory programs as well as the MSD Laboratory are integrated into the Regulatory Management Services Division. This division coordinates monitoring efforts and evaluates the collection system and water quality from a holistic, watershed-based approach, to address source controls through pollution prevention and pretreatment compliance programs, and to focus resources and expertise to effectively address wet weather discharges. The monitoring data of MSD's administrative programs are integrated into a comprehensive database. Historic data is now systematically entered into electronic databases. Figure 10-1 illustrates the structure of the MSD electronic databases. These databases are evolving into interlinked relational database to facilitate future evaluation of impacts and inter-relationships.

MSD's extensive monitoring programs include CSO and collection system sampling and flow monitoring, wet weather and dry weather sampling of stream waters, telemetered ambient water quality monitors, USGS stream gauges, a network of online telemetered rain gauges, biological monitoring of aquatic organisms, sediment sampling, industrial user monitoring, incident response program sampling and treatment plant influent and effluent monitoring. Some visual inspections are performed of CSO discharge activity. Citizen reports of questionable or illicit discharges are investigated. MSD supports citizen water watch monitoring activities and collaborates with USGS and The Ohio River Sanitation Commission (ORSANCO) in-stream and wet weather monitoring efforts. This section summarizes the CSS characterization efforts and outlines the monitoring program elements, as well as the studies, modeling, and analyses performed that use data to confirm the effectiveness of the nine minimum control requirements as well as to review and update the LTCP and MSD's other water quality improvement programs.



This section is organized under 10 subheadings:

- Introduction, presenting the purpose of the section.
- Overview of Sampling and Characterization Activities, briefly introducing the wealth
  of activities undertaken to characterize the CSOs and their impacts.
- CSS Characterization describing the CSS and the data compiled to characterize it.
- Monitoring to Characterize CSO Impacts describing flow monitoring and water quality sampling undertaken to characterize the combined sewer system, the overflows from the combined sewers, and the receiving water quality response.
- CSS Model discussing the mathematical model of the combined sewer system used to refine the characterization and support LTCP evaluations of alternatives.
- Water Quality Models introducing mathematical models to be used to refine the characterization of CSO impacts and to support LTCP evaluations.
- Overall Impacts of CSOs on Receiving Stream summarizing the weight of professional opinion of those working with the characterization data regarding the perceived impact of CSOs.
- Incidents Relating to CSO Impacts summarizing past adverse incidents suspected of being related to CSOs.
- Assessment of CSO Control Measures in Place presenting analyses of the impacts existing CSO control measures
- Conclusions presenting evaluation and recommendations regarding the adequacy of the existing characterization and monitoring programs for sustaining the LTCP efforts.

#### 10.3 COMBINED SEWER SYSTEM CHARACTERIZATION

The CSS system serving Louisville Metro is a complex network of conduits, diversion structures, flow control devices, and pump stations. The system details were investigated prior to the submittal of the first CSOP in 1993. The characterization investigations included visual inspections during sewer walks, teleinspections of small-diameter sewers, development of a geographic information system database from inspection findings, as-built drawings, and aerial reconnaissance mapping as well as research into the history of the development of the sewer system. Significant capital expenditures, coupled with repair and maintenance activities since 1996, have closed CSOs, enhanced conveyance capacities of the collection system and added wet weather storage capacity to the CSS, resulting in the elimination of significant amounts of CSO occurrences. Current details of the CSS characteristics are described in preceding sections of this report and again summarized below.

#### 10.3.1 General Characteristics of the Combined Sewer System

The MSD combined sewer system is tributary to the MFWTP. The MFWTP also serves a large separate sewer area. Flows from the separate sewer service areas travel through the combined sewer in the interceptors that thus serve both combined sewer service areas and separate

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sewer service areas. The combined service areas, separate service areas and major joint interceptors are shown on Figure 10-2.

The combined sewer service system is further subdivided into three service areas illustrated in Figure 10-3. Overflows from the two Ohio River regions discharge directly to the Ohio River, while overflows from the Beargrass Creek region discharge to a multitude of smaller urban stream. Figures 10-4, 10-5 and 10-6 show critical details of the combined sewer systems in the Beargrass Creek Region, the Ohio North Region, and the Ohio Rive West Region, respectively. Details shown in include:

- Interceptors
- CSO locations and numbers
- Watersheds tributary to each CSO
- Receiving Streams

The above figures are maintained in the MSD LOJIC GIS system and are readily interfaced with land use, topographic and other maps for spatial analysis. These spatial analysis are readily interfaced with field monitoring and modeling efforts (see below) to characterize the combined sewer system. Table 10-1 summarizes a combination of spatial analysis and other data, detailing, for each CSO:

- CSO number
- CSO location
- CSO latitude and longitude
- Receiving Stream
- Watershed tributary area
- Land use characteristics
- Population
- Overflow type
- Low flow conduit diameter
- Outlet sewer diameter
- Side weir length
- · High level pipe diameter
- Orifice diameter
- Status



#### 10.3.2 Existing System Condition

Beginning in the spring of 1991, a crew of MSD and consulting engineer personnel inspected the major pump stations and each CSO point accessible without undo risk to personnel. From these inspections a hard copy inventory of each CSO was compiled including a written description of intended operation, location, overflow type, elevation, and sketches of the location. This work resulted in a complete CSO Inventory. Later that data was converted into a relational database.

MSD previously delineated boundaries of the individual CSO areas. The geocoded area data was integrated into the GIS system, LOJIC. MSD can perform analysis such as determining the industries within each CSO boundary, percentages of impervious surfaces, and types of zoning (residential, business, and industrial). Refer to Exhibit 31 of the 308 Submittal for a complete copy of the CSO Inventory.

MSD system characterization is updated through routine sewer inspections, teleinspections, wet weather reconnaissance of the CSOs and the receiving streams, as well as wet weather and dry weather monitoring and sampling of the collection system, the CSOs, and the streams. Overflow occurrences, volume estimates, and load estimates are made possible through the monitoring and modeling programs described in detail in this section.

Details of the visual inventory and of CCTV inspections are summarized below in distinct subsections.

#### 10.3.2.1 Visual Inspection

The MSD visual inspection programs are conducted in support of the preventive maintenance programs. Those programs were recently summarized in the MSD Capacity, Management, Operation and Maintenance Self Assessment (May 12, 2006). Their application in the CSS is was further documented in the supplementary materials submitted with NMC Compliance Report (June 3, 2006). Results of visual inspections are summarize in field inventory forms are stored in the Hansen database. Figure 10-7 shows an example of the visual inventory data.

#### 10.3.2.2 CCTV

The MSD performs multiple CCTV inspections each year. CCTV inspections since 2000 are summarized in Table 10-2 Figure 10-8 illustrates which lines have been televised since 2000.

#### 10.4 MONITORING TO CHARACTERIZE CSO IMPACTS

MSD conducts and cooperated in numerous monitoring and modeling programs that characterize the combined sewer system, the combined sewer overflows, and the receiving waters they impact. Table 10-3 summarizes these programs. The following narrative describes the programs in greater detail. Their use in characterizing CSS, CSO and receiving waters are further detailed under distinct heading following the general narrative.

MSD and the United States Geological Survey (USGS) have monitored water quality in Jefferson County since the late 1980s. Samples of surface waters were collected on a routine basis, not specifically during wet weather. In early 1991, data from the Middle and South Forks of Beargrass Creek were examined in an attempt to identify any apparent CSO impacts. Based upon this analysis, no violations of state water quality criteria were noted during wet weather

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with the exception of coliform concentrations, which exceeded standards both upstream and downstream of known CSOs. A significant drop in dissolved oxygen levels was noted downstream of CSOs during the drought of 1988. Possible causes include accumulated benthic deposits or a general decrease in water quality due to the accrued effects of urbanization. MSD recognized the need for more pertinent data and initiated a monitoring and sampling program explicitly geared to wet weather.

In the Ohio River Watershed, the Louisville Area Demonstration Study of the ORSANCO Project was completed in October 2001. That monitoring included concurrent sampling of CSOs, receiving streams on both sides of the river, as well as the instream monitoring down the length and across the breadth of the local affected river segments. A water quality model developed using that data will be capable of predicting fecal coliform and E coli concentrations. This tool is now used for evaluating wet weather impacts on the Ohio River under various pollutant control scenarios.

Kentucky has issued a blanket designation of the majority of stream segments in the Commonwealth, as warm aquatic habitat with use attainment to be primary and secondary contact recreation regardless of historic alterations, depth or flow of the stream or current uses. Both the Ohio River and portions of Beargrass Creek are designated for full body-contact recreation although it is unlikely to occur during wet weather events due to inaccessibility and safety issues.

MSD characterized the affected watersheds to determine how the CSS operates in varying rainfall conditions and how the CSS impacts water quality. The Beargrass Creek Watershed has approximately 38 stream miles on the 2002 303(d) list for exceedences of the State Water Quality Standards. Beargrass Creek has a large number of point sources that discharge into the creek, including CSOs, SSOs, and stormwater discharges. The watershed is primarily urban with a high percentage of impervious surfaces. In this watershed, MSD conducts CSO water quality sampling, CSS analysis (modeling), and water quality monitoring. MSD has developed, and is enhancing, the Beargrass Creek Water Quality Model.



Monitoring the South Fork of Beargrass Creek

which will enable MSD to develop program priorities and project schedules based on potential water quality impacts. Additionally, MSD is partnering with KDOW and the University of Kentucky to develop dissolved oxygen and pathogen TMDLs for Beargrass Creek.

Beargrass Creek has warning signs posted along the stream at CSO points. The South Fork of Beargrass Creek contains a significant length of "improved" or concrete lined channel that is affected by CSOs is shown above, and has little remaining natural habitat or recreational access.



Access to the Ohio River in the CSO-affected area is limited by use and topography. Heavy barge traffic, industrial facilities, floodwalls, levees, a walled canal, locks, dams and steep banks without beaches discourage wading and swimming in the areas downstream of the CSOs. Recreational boating is prohibited in the barge canal and upstream of the hydroelectric plant and the dam. The nearest Louisville Metro recreational boat ramp on the Ohio River below the dam is more than five miles downstream of a CSO. Ohio River CSOs upstream from the downtown Waterfront Park boat docks include CSO 3, 23, 29, 118 and 123, and the mouth of Beargrass Creek.

MSD's monitoring program in the CSS includes collection system monitoring, wet weather CSO monitoring, and ambient stream monitoring to determine the impact of CSOs on water quality in the receiving streams. Networks of rain gauges, stream gauges, and sewer flow meters provide flow volumetrics. Special monitoring projects are developed and implemented such as those designed to determine the effects of industrial discharges on CSOs as well as evaluation projects for new CSO control measures and development of TMDLs for the three Forks of Beargrass Creek. During 2005, collection system monitoring locations within the CSS and at CSOs were sampled for more than 2900 analytical data points. Monitoring included field measurements, sample collection, and laboratory analyses as well as flow measurements. Analytes included conventional pollutants, nutrients, fecal coliform, metals, organics, and flow. Analytical results are available electronically upon request. Monitoring for the TMDL project includes metals, fecal coliform, and nutrients. The TMDL project for Beargrass Creek includes a total of 58 monitoring locations in the upstream separate sewer area and the lower combined sewer areas of the watershed. Continuous ambient monitoring is performed at stream locations that also have a USGS stream flow gauge.

#### 10.4.1 Collection System Monitoring

The CSS is continuously monitored for flow at four locations with long-term telemetered flow meters. The long-term collection system flow monitors are located on the Southern Outfall and the Southwestern Outfall. Refer to Section 4 (NMC 3) of this report for a map of these meter locations. Portable flow meters are also installed when feasible during sampling at other locations. The collection system sampling locations include 15 sewer manhole locations on the three forks of Beargrass Creek that are monitored for the TMDL project. The Ohio River Interceptor, the Southwestern Outfall and the Southern Outfall are routinely sampled to characterize combined wastewater upstream from the MFWTP wastewater treatment plant. Ten Ohio River CSS monitoring locations immediately upstream of CSOs are sampled in addition to the sewer main interceptor monitoring. Collection system monitoring includes sampling for metals, nutrients, cyanide, oil and grease, BOD, COD, TSS and TVSS.

Figure 10-9 shows locations of sewer systems flow monitoring sites for the several projects. Figure 10-10 shows CSO monitoring sites. Table 10-4 details the flow monitoring at these sites. Sampling results are included in the MSD database LIMS database which, as indicted in the introduction to this system, is linked to the geodatabase to support analyses and characterization. Table 10-5 summarizes the sampling sites in the collection system, showing the location of the sites, the number of samples and the period over which the samples were collected. Appendix 10-1 details the parameters analyzed at each sampling site, including the number of analyses of each parameter and the range of values observed. Table 10-6 and Appendix 10-2 respectively show similar sampling parameter details for sewers outside of the

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combined sewer service area. Several of these non-CSS sewers flow through the combined sewer interceptors.

Table 10-7 summarizes how the results of these analyses as summarized for use in the water quality tool. This summary will be updated with the data to be collected through 2007. Table 10-8 summarizes the CSS pollutant characterization from 2001.

#### 10.4.2 CSO Quality Monitoring

Seven CSOs sampled on Beargrass Creek are located on Figure 10-11. The sites monitored for flow are located on Figure 10-12. Several of the CSS sites mentioned in the preceding paragraph are located in the collection system immediately upstream of CSOs that discharge into the Ohio River. The Ohio River CSO outfalls are represented by the upstream sampling because they discharge underwater into the channel of the river and are not accessible for direct sampling. Table 10-9 summarized the characteristics of the flow monitoring at these sites. Table 10-10 summarizes the sampling at these sites, while table 10-11 presents a 2001 summary of the pollutant observations.

#### 10.4.3 MSD Ambient Stream Water Quality Monitoring Programs

MSD, ORSANCO, and potentially other researchers, occasionally sample for water quality characteristics, particularly in the Ohio River. The following narrative summarizes the background and findings to date from the receiving water monitoring programs reviewed to date.

#### 10.4.3.1 Overview

The Beargrass Creek Watershed is a high priority for implementation of CSO controls because it is a low-flow inland urban watershed. The stream consists of three forks that pass through parks as well as other public contact and recreation areas. The Kentucky 303(d) list includes Beargrass Creek as impaired water for metals, organic enrichment, low DO, pathogens and habitat alteration. MSD collaborates with ORSANCO to characterize wet weather non-point source as well as CSO impacts to the Ohio River from the communities on both sides of the River.

MSD has operated a Long Term Monitoring Network (LTMN) in-stream monitoring program as a partnership with USGS for 17 years. The instruments in the Long Term Monitoring Network record readings every 15 minutes. Seven of the LTMN sites are located in the Beargrass Creek Watershed as part of the CSO ambient monitoring program. Each of the LTMN locations is equipped with a minimonitor that measures pH, conductivity, temperature, dissolved oxygen, percent dissolved oxygen, and a USGS stream flow gauge. Atmospheric deposition data is also collected as part of the joint agreement with USGS. Wet weather sampling, biological monitoring and habitat characterization is performed at these same locations to determine ambient stream water quality and habitat conditions. The SIU/CSO project includes sample collection at SIUs and the CSOs downstream from them to determine if water quality is being adversely affected by industrial discharges. Collection system sample locations include flow meters to enable pollutant loading calculations to be made.

Continuous monitoring is performed by a sonde "minimonitor" water quality meter and a stream flow gauge at each fixed stream location. This pairing of continuous (5 to 15 minute data, 24 hours/day, 365 days/year) stream flow with continuous (15 minute data, 24 hours/day, 365



days/year) water quality data enables pollutant loading calculations to be made for the monitored locations.

Habitat evaluations are conducted for each stream monitoring location every two years, weather permitting. Macro invertebrates, fish and algae are sampled in alternate years. In the future, algae, macroinvertebrates and fish will be sampled every other year (odd years) at all LTMN sites with algae being done in the spring and fall, and macroinvertebrates and fish in the fall. That way each of the three indicators will be sampled every other year instead of sampling macros during some years and fish in others. All three biological indices will be calculated together every other year.

The LTMN enabled MSD to establish baseline conditions in the late 1980s and track long-term trends in stream water quality, determine the number and magnitude of water quality standard exceedences, evaluate improvements in water quality following implementation of the NMC and develop total maximum daily loads (TMDLs) for impaired water bodies. The program also supports MSD's regulatory activities and helps to further the goal of program integration. A water quality Synthesis Report will include data comparisons throughout the historic LTMN to determine long-term trends and provide data to be utilized in developing programmatic strategies to address specific water quality problems. MSD is currently negotiating a new Municipal Separate Storm Sewer System (MS4) permit with DOW. It is anticipated that some sampling and monitoring programs will be revised in accordance with this permit.

MSD and the community have performed extensive monitoring throughout the three watersheds within Beargrass Creek. Community monitoring efforts have included monitoring by the Salt River Watershed Watch, the Friends of Beargrass Creek, the University of Louisville, and monitoring activities by local schools. Though MSD does not utilize this information for purposes of modeling or program development, it does allow MSD to scan for anomalies within the watersheds.

#### 10.4.3.2 Recreational Contact Stream Sampling

Ambient monitoring data is supplemented with periodic wet weather sampling for fecal coliform, solids, and nutrients and metals collected at wet weather point sources. Fecal Coliform samples are currently collected five times per month at each of the long-term monitoring network locations during the period of May 1 through October 31 each year. The intent of the monitoring is to determine if recreational contact standards are being met. Fecal coliform, metals, and nutrients samples were collected in the Special Projects areas of the Mill Creek and Muddy Fork of Beargrass Creek watersheds. Stream samples were also collected to investigate suspected contamination or illicit discharges.

#### 10.4.3.3 CSO / SIU Sampling

The purpose of the IU/CSO project is to characterize and assess the potential risk of water quality impairments associated with combined and separate sewer overflows that have permitted non-domestic facilities discharging to the collection system upstream of these overflow points. The focus of this effort is potential risk of impacts to both the Beargrass Creek and Ohio River watersheds because a combination of CSOs and SSOs discharge to these streams.

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Current industrial discharge permit limits are based on the treatment efficiency of the wastewater treatment plant, not the assimilative capacity of the receiving stream. However, because of the presence of CSOs and SSOs, the possibility exists that discharges to the sewer system from SIUs, GDPs, and unregulated non-domestic dischargers may enter the receiving stream during wet weather events. This monitoring project was initiated to assess non-domestic discharges to the sewer system and the impact on the water quality within the Beargrass Creek and Ohio River watersheds during overflow events.

MSD has undertaken an intensive effort to assess the impact of non-domestic discharges on CSOs. Sampling was completed to develop a history of potential pollutants from industries and related CSOs. Work for FY05 included sampling and evaluation of data at Ohio River CSOs. Evaluation criteria have been developed to allow the determination of Pollutants of Concern (POC) on a CSO and industry-specific basis. The CSO area will continue to be assessed for risk from both permitted and non-permitted facilities. The likelihood of impacts from new industry recognized as potential SIUs will also be addressed through assessment of masses of pollutants in individual sewersheds. Refer to Section 4 (NMC 3) for additional information pertaining to this sampling and system characterization initiative.

#### 10.4.4 In Stream Water Quality Monitoring Data

MSD in-stream monitoring programs include flow monitoring and sampling. Figure 10-13 shows the locations of long term flow monitoring stations. The ambient flow monitoring stations are a joint effort of the USDG and MSD. Table 10-12 summarizes the in-stream sampling programs to date.

Table 10-13 summarizes the sampling sites in the receiving waters, showing the location of the sites, the number of samples and the period over which the samples were collected. Appendix 10-3 details the parameters analyzed at each sampling site, including the number of analyses of each parameter and the range of values observed.

#### 10.4.5 Rain Gauge Network

Water volume in each watershed is calculated based on actual rainfall data. In spring of 2003, fifteen new telemetry-equipped rain gauges were installed throughout Jefferson County. The rain gauge system includes monitors in each of the major watersheds. The new rain gauge telemetry data is available via the Internet. These rain gauges provide MSD with the ability to better calibrate rainfall predictions based on storms as they approach. The rain gauge information is utilized by MSD staff for flash flood emergency response preparation, as well as the CSO program sampling, watershed modeling efforts, and integrated into the CSS Real Time Control system.

#### 10.4.6 CSO Flow Monitoring

There are CSOs in the system with long-term flow meters. The largest CSOs on the Ohio River are monitored in addition to flow meters installed in the Southwestern Outfall and the Southern Outfall collection system. Additional CSO flow meters are located in the Beargrass Creek Watershed. The CSOs currently being monitored are 110, 117, 127, 140, 151, 152, 206 and 211. Flow data is available electronically.



#### 10.5 COMBINED SEWER SYSTEM MODELING

#### **Model Development**

The CSO Control policy describes modeling as a valuable tool for characterizing a CSS. The proper and effective use of models, is supported by EPA and the sophistication of the model should relate to the complexity of the system to be modeled.

The MSD Combined Sewer System hydraulic model (CSS model) was initially developed in 1991 and 1992 utilizing EPA's Storm Water Management Model (version 4.05 and 4.3) software, known as SWMM. The selection of the hydraulic model was based on the complexity and size of the MSD collection and conveyance system and the SWMM's ability to simulate full hydrodynamic equations.

In the late 1990s the MSD CSS model was converted from EPA's SWMM to the proprietary XP-SWMM model in recognition of the need for a useful graphical user interface (GUI), geographic information systems (GIS), and enhanced SWMM capabilities. XP-SWMM is an enhanced version of EPA's SWMM model.

The current CSS model was utilized to estimate the CSO hydraulic loads (Average Annual Overflow Volume and Frequency) using XP-SWMM version 8.5. The modeling performed in year 2006 for the purpose of analysis and evaluation of the various components of the Nine Minimum Control (NMC) efforts were completed using XP-SWMM version 10.

#### Historical Development of the Model

The development and calibration of the MSD CSS model was a part of early efforts associated with the CSO Abatement Program. The major objectives of the initial model development were to:

- Comply with CSO Policy Requirements
- · Estimate CSO hydraulic and pollutant loads
- Assist in identifying the location of significant CSOs
- Assist in evaluating corrective actions
- · Assist in prioritizing corrective actions

Figure 10-14 is a diagram exhibiting the History of Development of the CSS model.

#### **Model Calibration**

One of the early phases of work conducted for the abatement program was the flow monitoring program. Data gathered for sewer system flows and flow levels during various storm conditions provided the data necessary to calibrate and verify the CSS model. The model baseline condition was that dry weather flow was normally occurring in the system, upon which wet weather flows were superimposed. Model input consisted of dry weather flow directly entered as a constant flow and wet weather hydrographs generated in the runoff module are routed through the sewer system. CSS model was initially calibrated (DWF and WWF) using flow monitoring data collected in 1992. When the CSS model was upgraded in 2004, the model was re-calibrated using flow monitoring data collected in 2002 to adjust/redistribute dry weather flow as well as reviewing wet weather responses.

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Another step in the calibration process was to develop and apply the proper boundary conditions for the CSS model. Four locations exist where the CSS model receives flow from separate sewer systems (SSS) upstream of the CSS, as summarized below.

#### **CSS MODEL BOUNDARY LOCATIONS**

MH No.	Location
45899	Middle Fork at Seneca Park Road (MF Boundary)
23211	Goldsmith Lane at Trout Creek (BGI Boundary)
51175	Southeast Diversion Structure at Mall Road (BGI Boundary)
12599	Mellwood Avenue Sewer at Mellwood Lane (NSTS Boundary)

Although separate sanitary and storm sewer systems exist in the service areas upstream of the CSS, the sanitary sewers are susceptible to significant wet weather inflow and infiltration. As a consequence, the quantities of flow entering the CSS from the sanitary sewer systems can be substantially greater during wet weather periods than during dry weather periods. Efforts were undertaken during the 2004 wet weather calibration process to quantify the amount of deviation between the dry weather and wet weather conditions at these model boundary locations. There have been efforts to integrate CSS model and Separate Sewer System models to provide a more accurate and seamless analytical tool for alternative selection.

MSD has frequently updated the CSS model to reflect changing system conditions in the CSS by incorporating physical changes to various system features, and to take advantage of significant advances in computer hardware and software since the development of the model. The model modification, calibration and verification process updates as well as developing QAPP/Standards for sewer modeling will continue as the program proceeds and additional data and operating information become available as well as the system operational modifications and other suggested improvements are made to the system.

#### 10.6 WATER QUALITY MODELING

In addition to extensive monitoring programs, MSD employs extensive modeling activities to assess the performance of existing controls, as well as to determine pollutant loadings, receiving water quality impacts and the design of structural CSO controls to implement the Long Term Control Plan. The water quality modeling to date addresses local tributary receiving stream (Beargrass Creek) modeling and modeling of the Ohio River.

#### 10.6.1 Beargrass Creek Modeling Activities

The Beargrass Creek Watershed has approximately 38 stream miles on the 2002 303(d) list for exceedences of the State Water Quality Standards. Because the State is required to develop Total Maximum Daily Loads (TMDLs) for first priority streams within the next decade, wet weather sampling specifically for the development of TMDLs is ongoing in the Beargrass Creek watershed. MSD, the KDOW, and the University of Kentucky are working together to develop the TMDLs for three forks of Beargrass Creek. The Beargrass Creek TMDL for both dissolved oxygen and pathogens is expected to be complete during 2007. The information collected from the long-term monitoring can also be used to develop future TMDLs. MSD will provide the data



generated by this joint effort to the DOW for their use in development of the 305(b) Report: Kentucky Report to Congress on Water Quality and the 303(d) Listing of Impaired Water Bodies and for TMDLs, as well as to various non-government organizations, such as the Friends of Beargrass Creek, the Beargrass Creek Watershed Council and the Salt River Watershed Watch. Hydrologic Response Unit monitoring is also being performed. Data from 58 monitoring locations in the Beargrass Creek watershed including stream sites, CSOs and SSOs is being used to develop the TMDLs.

As the TMDL programs progress in Beargrass Creek and the Ohio River watersheds, monitoring and modeling are essential to measuring success and adapting to changes. MSD is committed to comprehensive information development, analysis and management. The modeling and monitoring currently underway include: Beargrass Creek Water Quality Model; Long-term Monitoring Network; CSO/XP SWWM Model Update; Recreational Contact Monitoring; ORSANCO Project; and the CSO/SIU project.

#### 10.6.1.1 Beargrass Creek XP-SWMM Model

MSD is developing a model that improves the interaction between the sanitary and combined sewer collection system in the Beargrass Creek watershed. The modeling standards are being reviewed and updated. The boundary conditions are being revised to more accurately reflect actual conditions. These models incorporate storm water inputs from the watershed, models flows in the collection system and will be used in a predictive mode to determine location and magnitude of SSOs and CSOs due to various storm events. Ultimately, these models will be major components used to develop information for decision making for MSD's Long Term Control Plan for CSOs and Sanitary Sewer Discharge Plan for SSOs.

#### 10.6.1.2 Beargrass Creek Water Quality Model

MSD is assisting the University of Kentucky with information related to the development of Total Maximum Daily Loads (TMDLs) for three sub-basins of Beargrass Creek, Jefferson County, Kentucky. These sub-basins have been on the State of Kentucky's 303(d) Listing of Impaired Water Bodies since the early 1990's for pathogens and dissolved oxygen/organic enrichment and do not meet the Designated-Use Criteria for Primary Contact Recreation and Aquatic Life. Monitoring and modeling efforts to support the development of TMDLs is currently ongoing with wet weather sampling and model development both underway. The monitoring effort consists of 14 in-stream continuous monitors collecting water temperature, pH, dissolved oxygen (DO), dissolved oxygen saturation (% DO), and specific conductance at 15-minute intervals. Ammonia data is also collected using continuous monitors at some locations. Continuous, 5minute interval, stream flow data is being monitored at three United States Geological Survey (USGS) gauges. Discontinuous data was collected during dry and under small storm wet weather conditions and additional discontinuous data is being collected for larger storm wet weather events. Sampling occurred within the stream and CSS during dry weather. During small storm events, sampling occurred in-stream, at CSO locations, and from runoff associated with specific land uses.

Large storm event sampling includes data collected in-stream, at sanitary sewer overflow locations, at CSO locations, and from runoff associated with specific land uses. MSD is currently developing a model of the Beargrass Creek watershed, the Water Quality Tool (WQT) to assist in the assembly of TMDLs for DO and pathogens and for decision making support of

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the Long Term Control Plan (LTCP). The modeling effort will assist MSD in targeting priority problems (land-side characterization), identifying wet weather flow effects on receiving water (receiving water assessment) and measuring the success of abatement initiatives through water quality monitoring and modeling (technology performance evaluation).

As such, it is necessary for MSD to characterize wet weather flows from a range of sources including CSO, SSO and non-point source watershed loadings (Hydrologic Response Units - HRUs). In addition, characterization of the receiving waters of Beargrass Creek in support of TMDL development for DO and pathogens is necessary, as is the determination of baseline conditions prior to abatement activities in the Beargrass Creek watershed.

The modeling approach of the Beargrass Creek Water Quality Model (BCWQM) is currently in the calibration stage of development. The BCWQM was developed by integrating HSPF water model and XP-SWMM collection system to continuously simulate in-stream flow, DO, phosphorus, nitrogen, solids and fecal coliform in the South, Middle and Muddy Forks of Beargrass Creek. HSPF was used to simulate runoff (volume and quality) and in-stream flow and water quality at 1-hour intervals throughout the watershed. Runoff is distributed from the HSPF watershed model to the combined sewer and stormwater systems in the XP-SWMM model. In addition, I/I is included in the modeling of the sanitary sewer system modeled in XP-SWMM. The outputs from the HSPF watershed model that do not enter the collection system are modeled as going directly to the receiving waters, while the runoff and I/I that does enter the collection system results in point sources that go to the receiving water. Thus, both point and non-point source loadings are modeled in the receiving water.

Continuous monitoring data provides significant advantages for HSPF development and calibration. Hourly DO simulations were improved by using continuous water temperature and pH data as model inputs. Hourly simulations proved essential to understanding the diurnal changes in water quality, especially DO and in accurately simulating storm events. To further support DO modeling efforts, a study of the sediment oxygen demand in the receiving waters was indicated. Water quantity and quality calibration is accomplished using residuals analysis to compare simulated and observed values. Typically only flow calibrations are accomplished this way because water quality data are collected using grab samples. This calibration method is possible because of the availability of hourly water quality and stream flow observations. Recent literature review indicates that MSD has pioneered HSPF-SWMM integration for continuous simulation modeling.

The BCWQM will be being used to simulate the effects of Real Time Control on the CSS and instream flow and water quality. The final BCWQM is intended to be a water quality management tool used to simulate and compare the effectiveness of various water quality improvement strategies for the entire MSD collection system and watershed for Beargrass Creek.

#### 10.6.2 Ohio River Modeling

Over 15,000 water quality data points were collected by the Ohio River Valley Water Sanitation Commission (ORSANCO), Louisville and Jefferson County MSD, and the Indiana communities of Jeffersonville and New Albany throughout the course of the Louisville Area Demonstration Project. MSD collaborated with ORSANCO on this study and the sampling activities associated with the project were completed by October of 2001. Data collected during three dry weather

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events, five wet weather events and two dye surveys was provided to the contract modelers by May of 2002.

The outputs from the landside model and hydrodynamic model were used as input to the final predictive water quality model. The project team determined that bacteria were the only constituents adversely impairing water quality in the Ohio River. A two-dimensional water quality model was developed using the EPA's WASP model framework to simulate E. coli and fecal coliform over a 50 mile stretch of the Ohio River. The water quality model was calibrated and verified to the bacteria data from the sampled wet weather events. The water quality model calibration and verification was completed in 2003. Ten simple source (e.g. CSO, tributary) reduction alternatives were simulated with the water quality model in 2004. These alternatives were simulated over the course of a calendar year corresponding to conditions from December 2000 through November 2001.

Model results were presented to project participants at a meeting in September 2004 and included comparisons of simulated concentrations to applicable water quality standards and animations of model results. The results from the control alternative simulations indicated that neither CSO nor stormwater source control alone would alleviate water quality impacts in the Ohio River. Stormwater is the primary source of bacteria loadings to the Ohio River.

The project was also successful in transferring the modeling framework developed for the Cincinnati metropolitan area's wet weather demonstration project to another large urban area. The final report describing all of the project activities is was complete by the end of 2004.

#### 10.7 OVERALL IMPACTS OF CSO ON RECEIVING STREAMS

Extensive surveillance and monitoring activities provide on-going characterization of the CSS and relevant data on the efficacy of implementation of the CSO Nine Minimum Controls as well as the more complex CSO abatement activities of the LTCP. Monitoring provides valuable water quality data for use by the public, ORSANCO and the Kentucky Division of Water. MSD continues to integrate appropriate technological advances into the monitoring program and to compile accurate and valid data in order to generate usable information for planning, implementing and evaluating the effectiveness of the CSO nine minimum control programs.

As an enhancement to the sophisticated data collection and characterization program currently in place, MSD will update the CSO monitoring component of the program. MSD will explore the feasibility and cost-effectiveness of installing additional flow meters at select CSO locations. The visual inspection program currently in place, as discussed in Section 2 (NMC 1) of this document, will be assessed for the possibility of providing additional data to assist in model calibration efforts currently underway for finalization of the CSO Long Term Control Plan. This data may include confirmation of wet weather overflow events and documentation of stream impacts if observed. This enhanced program will be in place by September 30, 2006.

To date, MSD water quality professionals have observed:

 As indicated in the 2004 KY 303d List, stream reaches impacted by CSOs occasionally violate water quality standards for pathogens. Stream reaches not impacted by CSOs also violate water quality standards for pathogens.

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- As indicated in the 2004 KY 303d List, stream reaches impacted by CSOs occasionally violate water quality standards for DO. Stream reaches not impacted by CSOs also also violate water quality standards for DO.
- As indicated in the 2004 KY 303d List, stream reaches impacted by CSOs occasionally violate water quality standards for Cadmium. Stream reaches not impacted by CSOs also also violate water quality standards for Cadmium. Cadmium measurements, however, are under review and these observations may be invalid.
- Debris associated with sanitary sewage is sometimes observed in several of the stream reaches. These observations are being addressed in the solids and floatable control porgram (see Section 7).
- MSD biological sampling indicates that several stream reaches impacted by CSOs have stressed ecosystems (low IBIs). Stream reaches not impacted by CSOs also have stressed ecosystems (low IBIs).
- Measured values of parameters in the CSOs are highly variable, with standard deviations often exceeding the average values. This variability lends a high degree of uncertainty to any projections of potential impacts.
- Measured values of parameters in the receiving waters are highly variable. Comparison between averages at sequential sites would require multiple observations to be statistically significant.

#### 10.8 INCIDENTS POTENTIALLY RELATED TO CSO IMPACTS

As owners of the CSOs, MSD takes responsibility for investigating reported incidents of adverse conditions potentially related to CSOs. MSD staff regularly observe the status of the local receiving waters, monitors receiving water quality and responds to customer complaints regarding observed conditions in the sewers or receiving waters. In addition, MSD responds to inquiries from DOW, ORSANCO another agencies charged with protection of the Jefferson County water resource.

MSD has received few reports of adverse conditions related to CSOs. Each such report has been investigated. Most such reports have proven not be related to CSOs – the condition observed was actually caused by something other than CSOs. Incidents where CSOs are potentially the cause of observed adverse impacts receive further investigation and a plan toward their resolution. Major reports of adverse impacts related to CSOs are summarized below:

Incident Potentially Related to CSO Impacts	Resolution
discharging dilute sewage to receiving waters,	This concern is addressed in the MSD Interim Long Term Control Plan Update (September
are limiting the beneficial uses (KY 303d List).	15, 2006) and in the Beargrass Creek TMDL.



#### 10.9 ASSESSMENT OF CSO CONTROL MEASURES IN PLACE

CSO control measures implemented to date include the nine minimum controls previously discussed, and elimination of the CSOs detailed in Tables 10-14, and initiation of the Real Time Controls.

To date, the performance of MSD CSO controls has been measured primarily by means of subjective interpretation of visual observations. Combined sewer system inspection, both structured inspection programs and inspections made during the course of operation or maintenance, provide the bulk of the observations that are interpreted as evidence of failure (or success). In addition, citizen complaints can provide evidence of NMC failure. For example, complaints of sanitary debris in the streams may indicate failure of floatables controls.

The evaluation of CSO control performance will be addressed in the long term control planning and documented in the post-construction monitoring section of the final LTCP report.

#### 10.10 CONCLUSIONS

The purpose of the system characterization, monitoring and modeling is to assist in developing appropriate measures to implement as part of the nine minimum control plan, and to support development of the long term CSO control plan. The monitoring and modeling together provide the tools used to objectively characterize the existing system, objectively define a baseline against which to evaluate the expected effectiveness of the NMC and the LTCP, and validate models that support consistent projection of expected conditions under alternative future conditions.

Professionals involved in the MSD LTCP and ongoing sewer system management review the monitoring and modeling programs documented in this section and concluded that the available double, when supplemented with the planned model improvements, are sufficient for the intended purposes of NMC assessment and LTCP development.

While existing monitoring and modeling approaches are adequate to support characterization of CSOs and their impacts, the analysis and distribution of results requires improvement. As part of the LTCP, a regular review and reporting of water quality trends will be implemented. A biannual water quality report will look for statistical trends in water quality as compared to baseline data. Given the extensive database of water quality measurements, the baseline conditions are well established both in time and in location. The first bi-annual water quality report will be prepared in December 2007. In addition to the bi-annual report of water quality trends, a bi-annual summary of water quality conditions and water quality trends will be prepared and posted on MSD's web site. This bi-annual summary will be prepared to be understandable by the general public, and will be widely distributed through MSD's active public outreach and education programs described in Section 11.4.

In addition, several supplemental monitoring programs are planned to provide data to support model refinements and the TMDL efforts. The supplemental monitoring programs include are listed in Table 10-15.

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#### **10.11 DATA REFERENCES**

Author	Date	Title	Publisher/ Owner/Contact
Louisville MSD	June 3, 2006	Interim CSO LTCP	
Kentucky DOW	August 2, 1999	KPDES Permit KY0022411, for Morris Forman Wastewater Treatment Plant	Louisville MSD
Kentucky DOW	March 3, 2000	KPDES Permit KYS000001 for Municipal Storm Sewers	Multiple agencies, including Louisville MSD
US District Court, Western District of Kentucky, Louisville Division	August 12, 2005	Consent Decree	US District Court/Louisville MSD
Louisville MSD	May 12, 2006	Capacity, Management, Operation and Maintenance Self Assessment.	Louisville MSD
O'Brien & Gere	April 2, 2004	CSS Model Maintenance- System Update Status Memorandum	Louisville MSD
O'Brien & Gere	November 25, 2003	CSS Model Maintenance-Model Update Memorandum,	Louisville MSD
O'Brien & Gere	FY03	CSO SWMM Model Information Paper,	Louisville MSD
Tenney Pavoni Assoicates, Inc. & O'Brien & Gere Engineers	July 1993	Combined Sewer Operational Plan (ChapterV),	Louisville MSD
MSD	LIVE	MSD LIMS (LABWORKS	DATDION CITZOEDALD
MSD	LIVE	ENTERPRISE) MSD SONDE DATABASES	PATRICK FITZGERALD PATRICK FITZGERALD
		MSD FLOW METER	PATRICK FITZGERALD
MSD	LIVE	DATABASES	& MIKE GRIFFITH
_		STREAM FLOW DATABASES	
MSD	LIVE	FROM USGS	PATRICK FITZGERALD
MSD	LIVE	RAIN GAUGE DATABASES	PATRICK FITZGERALD
MSD	LIVE	ONERAIN RAIN PIXEL DATABASE	DATDICK EITZCEDALD
MSD	2006	ALGAE DATABASE	PATRICK FITZGERALD PATRICK FITZGERALD
		MACROINVERTEBRATE	TATRIORTHZGERALD
MSD	2006	DATABASE	PATRICK FITZGERALD
MSD	2006	FISH IBI DATABASE	PATRICK FITZGERALD

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are											LA	ND USE			1		Overflow 1	Гуре and Config	uration				
CSO CSO NAME	LOCATION	1	TUDI MIN					RECEIVING STREAM	DRAINGE AREA (ACRES)	Residential	Commercial	Industrial	Parks	Vacant	POPULATION	OVERFLOW TYPE	LOW FLOW	OUTLET	SIDE WEIR LENGTH	HIGH LEVEL PIPE DIA	1	STATUS	COMMENTS
015 SOUTHWESTERN PS	BELLS LN & 1-264	38	13	15.0	85	49	23.4	OR	7,441.3	50.9%	18.9%	16.7%	2.5%	11.0%	49,721	DIVERSION DAM	2-60"	18'4" x 27'6"	NA	DIA	DIA	ACTIVE	
016 MILES PARK BYPASS	S OF 45th & WINNROSE	38	14	14.3	85	41	41.8	OR		NA	NA	NA	NA	NA	NA	SIDE WEIR	10"	inverted egg 48"	5'			ACTIVE	
018 NIGHTINGALE PS	NIGHTINGALE & SFBGC	38	12	55.1	85	42	39.6	SF BGC		NA	NA	NA	NA	NA	NA	HIGH LEVEL PIPE W/ SIDE WEIR		27"	4 <sup>†</sup>	5' x 4'		ACTIVE	
019 34th STREET PS	34th & RUDD	38	16	36.6	85	48	10.7	OR	1,192.4	55.5%	12.3%	10.9%	5.4%	15.9%	8,976	DIVERSION DAM	24"	11'6"		<b></b>		ACTIVE	
020 BUCHANAN PS	BUCHANAN & FRANKLIN			24.4	85		52.9	OR	86.6	19.3%	14.7%	54.0%	3.0%	8.9%	247	DIVERSION DAM		6'6" X 6'1.5"				ACTIVE	
022 FOURTH ST PS	FOURTH & MAIN	38	15	23.4	85	;	23.5	OR	95.2	6.2%	91.3%	1.8%	0.7%	0.0%	259	DIVERSION DAM	30"					ACTIVE	
023 ORI @ 4th ST PS	FOURTH & MAIN	38	15	23.4	85		23.5	OR		NA.	NA	NA	NA	ŇΑ	NA	SIDE WEIR		96" x 96"	13'-6"			ACTIVE	
026 CRD 6th & BROADWAY 027 CRD 7th & BROADWAY	6th & BROADWAY 7th & BROADWAY	38	14	46.5 47.0	85 85	45 45	42.6 48.4	OR OR	8.4	0.0%	69.2%	30.8%	0.0%	0.0%	0	SIDE WEIR		36"	31	<u> </u>		ACTIVE	
028 CRD 6th & YORK	6TH & YORK	38	14	40.3	85	45	43.5	OR	10.1 6.1	0.0%	100.0% 84.0%	0.0% 16.0%	0.0%	0.0%	0	SIDE WEIR	2.41	42"	3'-8.5"			ACTIVE	
029 CRD 8th & YORK	8th & YORK		14	41.5	85	45	55.8	OR		NA	NA	NA	0.076 NA	0.0% NA	NA NA	SIDE WEIR SIDE WEIR	36"	42" 60"	3'-6" 5'			ACTIVE	
030 CRD 9th & YORK "A"	9th & YORK	38		42.2	85	46	1.2	OR	32.6	13.7%	62.0%	8.9%	0.0%	15.4%	183	SIDE WEIR		54"	5'-9"			ACTIVE ACTIVE	
031 CRD 6th & BRECKINRIDGE	6th & BRECKINRIDGE	38	14	32.0	85	45	44.7	OR	3.8	82,2%	12.6%	0.0%	0.0%	5.2%	12	SIDE WEIR		30"	4'-11"	<u> </u>		ACTIVE	
032 CRD 4th & BRECKINRIDGE	4th & BRECKINRIDGE	38	14	30.8	85	45	33.0	OR	6.4	0.0%	100.0%	0.0%	0.0%	0.0%	1	SIDE WEIR	36"	24" and 27" - in 18" - out	10'			ACTIVE	
033 CRD ON YORK E OF 4th	ON YORK E OF 4th	38	14	38.9		45	28.4	OR	4.3	0.0%	100.0%	0.0%	0.0%	0.0%	0	SIDE WEIR	36"	30" x 39" egg	3'	·		ACTIVE	
034 CRD 4th & YORK	4th & YORK	38		39.2	85		30.9	OR	5.1	7.9%	92.1%	0.0%	0.0%	0.0%	0	SIDE WEIR	36"	30" x 45" egg	3'-2"			ACTIVE	
035 CRD 2nd & BROADWAY NO 1	2nd & BROADWAY	38		45.6		45		OR		NA	NA	NA	NA	NA	NA	SIDE WEIR	36"	36" x 54" egg	3'			ACTIVE	
036 CRD 3rd & BROADWAY	3rd & BROADWAY	38	14	45.1	85	45	24,2	OR	20.0	19.4%	79.5%	1.1%	0.0%	0.0%	267	SIDE WEIR	36"	30" x 45" egg	2'-6"			ACTIVE	
038 CRD 5th & BROADWAY	5th & BROADWAY	38	14	46.1	85	45	36.2	OR	9.5	0.0%	62.8%	37,2%	0.0%	0.0%	1	SIDE WEIR	5'5" x 8'1.5" inverted egg	30"	3'-5"			ACTIVE	
OSO Mad grap pros	DAL CENIOE MADI	20	1.5	22.0	0.5		10.6	0.00										Paragraphic Control of the Control o				SIR DOMES	
050 12th STREET	12th ST N OF MAIN 11th ST N OF MAIN	38		33.0 29.0	85 85		10.5	OR OR	36.3	0.0%	32.2%	60.8%	0.0%	6.9%	33	DIVERSION DAM	16"	7'-6"				ACTIVE	
051   11th STREET 752   10th STREET	10th ST N OF MAIN	38		29.9	85		5.1	OR OR	6.3 8.7	0.0%	15.4%	82.3%	0.0%	2.3%	0	DIVERSION DAM	8"	7'-0"				ACTIVE	
553 8th STREET	8th ST N OF MAIN	38		26.8	85		47.2	OR	34.1	0.0%	45.7% 90.3%	17.6% 5.3%	0.0%	36.7% 4,4%	0 565	DIVERSION DAM	10"	48"				ACTIVE	
054 7th STREET	7th ST N OF MAIN	38	15	27.2	85		40.9	OR	7.1	0.0%	90.5%	9.5%	0.0%	0.0%	10	DIVERSION DAM DIVERSION DAM	12"	7'-0"				ACTIVE	
055 6th STREET	6th ST N OF MAIN	38		26.9	85		35.1	OR	18.0	0.0%	91.3%	0.0%	8.7%	0.0%	304	DIVERSION DAM	12"	12" 36"				ACTIVE ACTIVE	
056 5th STREET	5th ST N OF MAIN	38	15	25.0	85		29.4	OR	22.0	4.5%	93.4%	0.0%	2.1%	0.0%	11	DIVERSION DAM	12"	7'-0"				ACTIVE	
057 FIRST STREET OVFL WEIR	1st & MAIN	38	15	21.1	85	45	5.5	OR	~~	NA	NA	NA	NA	NA	NA NA	HIGH PIPE	30"	72"		42"		ACTIVE	
058 PRESTON ST OVFL WEIR	PRESTON & MAIN	38	15	19.5	85	44	45.1	OR	105.4	16.8%	51.8%	14.1%	2.0%	15.2%	1,115	SIDE WEIR	18"	5'-0"X5'-0"	8'-0"	,,_		ACTIVE	
062 LOGAN COMPANY	N OF BUCHANAN PS	38		31.1		43	52.7	OR		NA	NA	NA	NA	NA	NA	DIVERSION DAM	54" SE	5'7.5" x 4'0" basket handle	į			ACTIVE	
Pakata na na na na na na na na na na na na na	Laterauseurs Caraces Halandiageográfica de activação							Statistical Statistical				, j										orandario (ministration) Societale (ministration)	
081 LETTERLE	LETTERLE @ BGC PS	38	15	39,4	85	43	8.6	SF BGC		- NA	NA .	NA .	NA	NA	NA	HIGH LEVEL PIPE		104		Off			Scheduled to be eliminated
082 BGI AT BGC	BGC @ OMFT	38	\$6.00mm	Charles Control	02002002	COMMERCIAL PROPERTY.			100			220000000000000000000000000000000000000	2252 SERVICES	0.0000000000000000000000000000000000000			Self-rodules control and an artist of the control o			84		ACTIVE	by 9/2006
083 BRENT ST & BROADWAY CONNECT	BRENT & BROADWAY				85		7.2	SF BGC SF BGC	16.0 45.7	NA 22.4%	NA 56.5%	NA 16.1%	NA 0.0%	NA 4.9%		HIGH LEVEL PIPE				12"		ACTIVE	
084 BRENT ST @ BGC	BRENT ST @ BGC			38.4				SF BGC	125.1	52.3%	40.4%	3.6%	1.8%	1.9%		DIVERSION DAM DIVERSION DAM	8" 15"	18" 54"				ACTIVE	
086 PAYNE AT SPRING	PAYNE ST @ SPRING ST			5.6			8.1	MF BGC	6.1	53.4%	17.7%	23.4%	0.0%	5.4%	24	LEAPING WEIR	10"	24"				ACTIVE ACTIVE	
087 BLUEHORSE	FRANKFORT @ BLUEHORSE	38	earth-funite.va.	29.8	85		13,9	SF BGC	8.0	-28.3%	- 25.1%	8.3%	0.0%	38.3%	14	LEAPING WEIR	10"	24"				ACTIVE	Scheduled to be eliminated by 9/2006
088 MELLWOOD AVE INT	BROWNSBORO RD @ BGC	38	15	37.0	85	43	4.8	SF BGC	Separated	77.5%	15.5%	6.8%	0.0%	0.2%	177	LEAPING WEIR	24"	24"	A CONTRACTOR OF THE CONTRACTOR	management MEESTANG.	A CONTRACTOR OF THE PARTY OF TH	SEWERS SEPARATED	Sewers Separated
091 SCHILLER AVE OVFL	SCHILLER & HIGHLAND		14			43		SF BGC	15.0	94.5%	3.7%	0.0%	0.0%	1.8%	243	ORIFICE		24"			8"	ACTIVE	
092 ST CATHERINE @ BGC	SCHILLER BTW KY & ST CATHERINE		14		85		54.3	SF BGC	7.7	89.5%	10.5%	0.0%	0.0%	0.0%	131	LEAPING WEIR	15 <sup>n</sup>	24"				ACTIVE	
093 SPRING STREET	SPRING ST N OF MELLWOOD			21.0				SF BGC	20.8	10.0%	31.0%	36.0%	0.0%	22.9%	98	LEAPING WEIR	15"	36"				ACTIVE	
097 CANTONMENT SIPHON NO 2	BGC S OF EASTERN PKWY			23.1				SF BGC		NA	NA	NA	NA	NA		HIGH LEVEL PIPE		39"		15"		ACTIVE	
104 SW PKWY SEWER @ BROADWAY	SW PKWY & BROADWAY			1.7				OR	62.0	95.2%	4.0%	0.0%	0.8%	0.0%		DIVERSION DAM	24"	48"	NA			ACTIVE	
105 WESTERN OUTFALL @ BROADWAY  106 ROYAL - NEFF	BROADWAY @ SW PKWY BACKYARD OF 1212 ROYAL	38	15 15	2.0	85		42.8	OR SF BGC	1,893.0 11.8	57.2% 95.7%	13.0% 0.0%	19.8%	1.5% 4.3%	8.5% 0.0%		DIVERSION DAM DIVERSION DAM	24" 6"	11'9" 12" and 15" -	NA			ACTIVE	
108 REG NO 1 - NEWBURG	NEWBURG @ TREVILIAN	38		54.5	85		13.4	SF BGC	485.2	94.1%	4.8%	0.0%	0.8%	0.0%	103	REGULATOR W/	12" x 24"	in 18" - out dual 7'6" x				ACTIVE	
39 REG NO 2 - DEER PARK	BEHIND O. L. O. P.	<del>                                     </del>	13	7.2	85		52.9	SF BGC	95.4	80.6%	19.0%	0.0%	0.4%	0.3%	3,636	RACK BARS REGULATOR W/	12" x 24"	7'0" 54"				ACTIVE	
110 REG NO 3 - GOSS AVE	BGC S OF EASTERN PKWY	+		30.9	85		38.5	SF BGC	73.0	85.1%	10.3%	0.0%	4.6%	0.0%	435	RACK BARS REGULATOR W/	12" x 15"	60"				ACTIVE	
											. 0.074	V.070	41.070	V. V / 0	492	RACK BARS	12 X 13	00				ACTIVE	

Table 10-1 CSO Summary page2 of 3

												LA	ND USE	***************************************	*****			Overflow T	Type and Confi	guration			1	
CSO NO.	CSO NAME	LOCATION		TTUDI MIN	E - N SEC	LON DEG			RECEIVING STREAM	DRAINGE AREA (ACRES)	Residential	Commercial	Industrial	Parks	Vacant	POPULATION	OVERFLOW TYPE	LOW FLOW DIA	OUTLET SEWER DIA	SIDE WEIR LENGTI		ORIFICE DIA	STATUS	COMMENTS
111 EN	MERSON STREET SEWER	BGC N OF EASTERN PKWY	38	13	32.0	85	43	38.3	SF BGC	99,4	83.0%	15.5%	0.0%	0.2%	1.2%	765	DIVERSION DAM		5'2.5" x 4'9" basket handle			10"	ACTIVE	
113 EI	LISON AVENUE SEWER	ELLISON & SCHILLER	38	13	51.3	85	43	45.7	SF BGC	67.6	90.7%	4.1%	3.4%	0.4%	0.6%	521	DIVERSION DAM		48"			8"	ACTIVE	
117 RI	EG NO 11 - DRY RUN	LOGAN & CALDWELL	38	14	17.7	85	44	21.4	SF BGC	74.2	48.3%	21.9%	13.2%	2.4%	14.3%	9.327	DIVERSION DAM W/ REGULATOR	24" x 24"	9'6"				ACTIVE	
118 RI	EG NO 15 - E BRDWY	BROADWAY W OF BGC	38	14	40.0	85	44	11.2	SF BGC	354.1	28.0%	52.8%	8.9%	0.7%	9.6%	3,871	DIVERSION DAM W/ REGULATOR	16" x 34"	8'0"				ACTIVE	
119 BI	RENT STREET SEWER	BGC N OF BROADWAY	38	14	41.0	85	44	7.4	SF BGC		NA	NA	NA	NA	NA	NA	HIGH LEVEL PIPE		18"		15"		ACTIVE	
120 PI	IOENIX HILL SEWER	E OF BGC & S OF BAXTER	38	14	52.6	85	43	55.6	SF BGC	7.7	25.7%	50.1%	19.5%	0.0%	4.7%	54	DIVERSION DAM	8"	24"				ACTIVE	
121 RI	EG NO 18 - GREEN ST	LEXINGTON RD W OF BGC	38	14	59.0	85	43	52.1	SF BGC	107.2	36.4%	24.4%	25.2%	2.8%	11.3%		DIVERSION DAM	12"	36"				ACTIVE	
in de line	serikoten premiseraturakoa	English (Alice Can) Bearing (Alice Can) (Alice Can)	ala de f			e dod	revisio (i	i di si	. Zirilizi X	. Paradoria da la	sens an earlier and an energy of the energy			MATERIAL SERVICES		899	W/ REGULATOR			1914. Se 301	enananan	raasin did	Simples	
	EG NO 24 - GRINSTEAD DR	GRINSTEAD @ I-64	38	14	54.1	85	42	1.4	MF BGC	391.0	57.4%	36.5%	0.0%	0.6%	5.5%	Parties de la contrata del la contrata del la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contrata de la contr	REGULATOR W/	15"	71211		4.254.26183	MRS FALLEN		
	EG NO 26 - RAYMOND AVE	I-64 & SAUNDERS LN	38	14	55.3		42		MF BGC	35.3	83.6%					2,124	RACK BARS		7'3"				ACTIVE	100
	CLEY AVENUE	LEXINGTON RD OP ETLEY	38	14	45.2	85		16,5	MF BGC	192.3	83.5%	4.0% 13.4%	0.0%	0.0% 4.5%	12.4% 0.3%	230 1,904	REGULATOR DIVERSION DAM	15" 12"	36" 6'0"		$\vdash$		ACTIVE ACTIVE	
130 W	EBSTER STREET	S OF STORY OP WEBSTER	38	15	22.2	85	43	34.0	SF BGC	28.4	24.2%	37.3%	32.3%	0.0%	6.1%	61	DIVERSION DAM	12"	24"				ACTIVE	
131 RE	EG NO 33 - MELWD & FRANKFORT	FRANKFORT AVE @ BGC	38	15	28.5	85	43	11.7	SF BGC	50.3	48.2%	38.7%	11.1%	0.0%	2.0%	380	REGULATOR W/ RACK BARS	15"	30"				ACTIVE	
132 RE	EG NO 35 - BROWNSBORO	BROWNSBORO & DRESCHER B	38	15	36.9	85	42	42.3	MudF BGC	674.0	75.2%	16.9%	1.2%	2.7%	4.0%	5,650	REGULATOR W/ RACK BARS	16" x 21"	10'11" x 10'0" basket handle				ACTIVE	
	ALVARY CEMETARY	CALVARY CEMETARY @ BGC	38	13	23.4	85	43	19.2	SF BGC	26.7	84.8%	13.6%	0.0%	1.6%	0.0%	83	DIVERSION DAM	8"	12" and 24" - in 24" - out				ACTIVE	
	OCUST STREET	LOCUST SW OF SPRING	38 38		7.8		43		MF BGC	75.5	60.7%	5.7%	21.3%	1.3%	11.1%	574							ACTIVE	
	AXTER AVE @ BGC BR LOGAN ST @ ST CATHERINE	BAXTER AVE & BGC LOGAN & ST CATHERINE		14 14	56.1 7.0	85 85	43 44		SF BGC SF BGC	16.5	56.4% NA	28.7% NA	15.0% NA	0.0% NA	0.0% NA	131 NA	ORIFICE SIDE WEIR		18" 24"	51	ļ	15" 18"	ACTIVE	
	tornal supera na presidente de la la companya de la companya de la companya de la companya de la companya de l												Contract Car		NA	TVA	SIDE WEIK		24 1533 (153)	5'		10	ACTIVE	
	ANCE ST REGULATOR	S END OF VANCE & I-64	38	15	2.8	85	42	35.1	MF BGC	16.4	70.0%	14.3%	9.4%	0.0%	6.2%	105	DIVERSION DAM W/ REGULATOR	7.5" x 15.38"	42"				ACTIVE	Control of August Control of August A
SEL NO COLOR NO. ELVI	IEADS BRANCH DIVERSION	SWAN ST S OF BGC	38	14	113	85	44	13.5	SF BGC	724.6	77.4%	11.8%	3.5%	4.3%	3.0%	8,939	PACK DARS	107	aton.					Service :
	VAN STREET DIVERSION	SWAN ST N OF BGC	38	14	12.4	85	44	13.3	SF BGC						450000000		RACK BARS	18"	7'0"				ACTIVE SEWERS	Scheduled to be eliminated
				Park Inc.			20020			Separated	85,5%	11.4%	2.3%	0.0%	0.8%	472	ORIFICE		367			10"		by 09/2007
	ASTERN PKWY DIVERSION	EASTERN PKWY E OF BGC	38		31.4	85	43		SF BGC	24.9	99.6%	0.4%	0.0%	0.0%	0.0%	472 Included in	DIVERSION DAM	8"	24"				ACTIVE	
	RY RUN DIVERSION  IST @ COMMON PLACE	8th ST & COMMON PLACE	38	14 15	14.0 28.7	85 85	44	37.2	SF BGC OR	225.8	48.3% 0.0%	21.9%	13.2%	2.4%	14.3%	CSO117 Included in	DIVERSION DAM	48" x 33"	8'6"				ACTIVE	
.50 64			150				-			1.0	0.076	90.3%	5.3%	0.0%	4.4%	CSO053	DIVERSION DAM	8"					ACTIVE	
	EG NO 5 - CASTLEWOOD	BGC & CASTLEWOOD DELL	38						SF BGC	232.5	89.6%	3.3%	0.0%	6.5%	0.6%	2,501	REGULATOR W/ RACK BARS REGULATOR W/	24"	66"				ACTIVE	
	EG NO 7 - SOUTHEASTERN	BGC & RUFER AVENUE	38	14	1.3	85	43		SF BGC	260.6	64.4%	22.7%	0.0%	12.2%	0.6%	2,759	RACK BARS	18"	7'0"		1		ACTIVE	
	OOPER STREET	LEXINGTON & COOPER MELLWOOD AVE & EDWD POND BR				85			SF BGC	41.7	85.1%	10.3%	2.2%	0.4%	2.0%	417	DIVERSION DAM	8"	36"				ACTIVE	
	ELLWOOD @ SCHOEFFEL DWAN ST @ 12th ST	ROWAN & 12th	<del></del>			85 85			MudF BGC OR	31.0 11.9	46.6% 0.0%	23.8% 0.0%	29.6%	0.0%	0.1% 71.4%	136 0	DIVERSION DAM DIVERSION DAM	12" & 15"	48"		<u> </u>		ACTIVE	
	~	WASHINGTON W OF 6th				85			OR		NA	0.0% NA	28.6% NA	0.0% NA	71.4% NA	NA	DIVERSION DAM  DIVERSION DAM	8" 6"	7'-0" 12"				ACTIVE ACTIVE	
	WER IN ALLEY SAN DIV	1ST ST BTW MAIN & MARKET	38	15	19.3	85	45	5.7	OR	2.0	0.0%	89.7%	10.3%	0.0%	0.0%	0	DIVERSION DAM	6"	30"				ACTIVE	
	ARKET ST SAN DIV	FIRST & MARKET	38	15	17.0	85	45	6.7	OR	2.5	0.0%	82.9%	17.1%	0.0%	0.0%	0	DIVERSION DAM	8"	30"	25 25 25 25 25 25 26		-0.1 - 2014 of 100 April 100	ACTIVE	
	ALS BRANCH SAN DIV	LEXINGTON RD & 1-64	38	14	41.8	85	41	79.1	MF BGC	681.1	77.0%	15.5%	0.0%	4.6%	3.0%	3,503	DIVERSION DAM	24"	10'3" semi-			unia dia 1758	ACTIVE	
67 BR	ROWNSBORO LAT NO 2	BROWNSBORO & DRESCHER B	38	15	36.6	85	42	43.4	MudF BGC	11.0	75.2%	16.9%	1.2%	2.7%	4.0%	Included in	W/ RACK BARS DIVERSION DAM	15"	elliptical 24"				ACTIVE	
172 AE	DAMS STREET	ADAMS ST & I-64	38	15	46.7	85	43	46.8	OR	13.7	0.0%	87.0%	0.0%	0.0%	13.0%	CSO132 0	SIDE WEIR	10"	36"	3'-6"			ACTIVE	, 112 1101 2011
174 SB	R GOSS & BOYLE	GOSS AVE & BOYLE ST	38		46.5	85		20.9	SF BGC	169.6	Included in CSO146	Included in CSO146	Included in	Included in	Included in CSO146	Included in CSO146	SIDE WEIR	54"	7'0"	4'			ACTIVE	
178 CR	D 9th & YORK "B"	9th & YORK	38	14	41.7	85	46	1.5	OR	29.7	17.0%	17.7%	CSO146 43.0%	CSO146 0.0%	22.2%	204	SIDE WEIR	54"	4'-0"X6'0"	8'			ACTIVE	
	ENTUCKY ST SEWER OVFL	KENTUCKY ST & ST PAUL CT	38	14	14.0	85		37.5	SF BGC	461.8	48.3%	21.9%	13.2%	2.4%	14.3%	Included in CSO117	SIDE WEIR	8'6"	8'0" - in 9'6" - out	U			ACTIVE	<del>.</del>

Table 10-1 CSO Summary page3 of 3

.,,												LA	ND USE					Overflow T	ype and Config	uration		*		
CSO NO.	CSO NAME	LOCATION	I	TITUD MIN	E - N SEC				RECEIVING STREAM	DRAINGE AREA (ACRES)	Residential	Commercial	Industrial	Parks	Vacant	POPULATION	OVERFLOW TYPE	LOW FLOW DIA	OUTLET SEWER DIA	SIDE WEIR LENGTH	HIGH LEVEL PIPE DIA	ORIFICE DIA	STATUS	COMMENTS
	SBR ORMSBY AVE RELIEF	ORMSBY & CLAY	38		49.4		44	39.0	SF BGC	2.8	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	30"	36"	6'			ACTIVE	
181	CRD 2nd & BROADWAY NO 2	2nd & BROADWAY	38	14	45.0	85	45	18.2	OR	22.6	10.3%	89.7%	0.0%	0.0%	0.0%	200	SIDE WEIR	36"X54"	36"	5'-9"			ACTIVE	
182	SBR SHELBY & BURNETT	BURNETT W OF SHELBY ST	38	13	30.0	85	44	34.1	SF BGC	147.3	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	60"	7'0" semi-elliptical - in 60" - out	5'			ACTIVE	
83	SBR ALEXANDER & KESWICK	ALEXANDER & KESWICK	38	13	7.2	85	44	33.9	SF BGC	3.2	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	HIGH LEVEL PIPE	6'-6"	18"		18"		ACTIVE	
84	SBR FETTER & ALEXANDER	FETTER & ALEXANDER	38	13	0.7	85	44	28.3	SF BGC	109.3	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	54"	6'0"semi- elliptical	4'-6"			ACTIVE	
85	SBR SHELBY & KESWICK	SHELBY & KESWICK	38	13	5.3	85	44	38.2	SF BGC	145.8	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	48"	6'6" semi- elliptical	4'			ACTIVE	
.86	SBR LOGAN & OAK	LOGAN & OAK	38	13	59.8	85	44	23.8	SF BGC	0.0	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	18"	18"	7'			ACTIVE	
87	SBR SHELBY & CAMP	SHELBY & CAMP	38	13	52.5	85	44	30.6	SF BGC	5.2	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	15"	18"	4'			ACTIVE	
	SBR SHELBY & CLAY	SHELBY & CLAY	38	13		85	44	37.4	SF BGC	14.7	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	Included in CSO146	SIDE WEIR	21"	20"	4'			ACTIVE	
$\overline{}$	NORTHWESTERN SAN DIV	SHAWNEE PARK FLOOD PS	38		19.2				OR	1,148.7	69.1%	9.4%	9.0%	3.1%	9.5%	9,660	SIDE WEIR	3†6"	13'6" x 9'0"	27'			ACTIVE	
	SEVENTEENTH ST SAN DIV	17th ST & NW PKWY	38	<del> </del>		85	46		OR	145.4	25.3%	19.6%	34.1%	0.0%	20.9%	1,137	DIVERSION DAM	24"					ACTIVE	
-	ALGONQUIN PKWY SAN DIV	SOUTHWESTERN PS	38	-	16.0		49		OR	339.8	5320.0%	6.0%	15.5%	1.1%	24.2%	1,152	DIVERSION DAM	24"	8'0"	NA			ACTIVE	
	CRD S 6th & GARLAND CRD S 6th & KENTUCKY	6th & GARLAND	38		27.9			45.5	OR	9.0	63.3%	2.9%	0.7%	12.8%	20.3%	65	SIDE WEIR	24"	18"	4'			ACTIVE	
_	CRD S OAK W OF 4th	6th & KENTUCKY	38	-	24.0	85	45		OR	22.7	46.4%	33.7%	0.8%	5.5%	13.7%	287	SIDE WEIR	24"	18"	4'			ACTIVE	
-	CRD S 4th & OAK	OAK ST W OF 4th ST 4th & OAK	38			85		40.8	OR		NA	NA	NA	NA	NA	NA	SIDE WEIR	18"	12"	6'			ACTIVE	
	CRD S 3rd & OAK	3rd & OAK	38		4.8	85 85	45 45	37.2	OR	7.3	92.9%	7.1%	0.0%	0.0%	0.0%	222	SIDE WEIR	27"	18"	4"			ACTIVE	
-	CRD S 3rd S OF OAK	3rd ST S OF OAK ST	38	1	3.1	85		31.5	OR OR		NA NA	NA NA	NA	NA NA	NA.	NA	SIDE WEIR	24"	18"	4'			ACTIVE	
	CRD S 3rd & ORMSBY	3rd & ORMSBY	38		58.2	85	45	32.1	OR	13.0	NA 41 80/	NA 47. 497	NA 0.00/	NA NA	NA 10.00	NA NA	SIDE WEIR	16"		4'			ACTIVE	
<del>-</del>	CRD S 3rd N OF MAGNOLIA	3rd ST N OF MAGNOLIA	38	_	49.2		45		OR	13.0	41.8%	47.4%	0.0%	0.0%	10.8%	247	SIDE WEIR	24"	15"	4'			ACTIVE	
_	CRD S 3rd & MAGNOLIA	3rd & MAGNOLIA	38		44.7		45		OR	10.3	NA 34.0%	NA 20.6%	NA 0.0%	NA 45.3%	NA O	NA 114	SIDE WEIR	15"	15"	4'			ACTIVE	
_	CRD S 5th & KENTUCKY	5th & KENTUCKY	38		20.9	;	45		OR	10.5	NA	NA	NA	43.3% NA	0.0% NA	114	SIDE WEIR	15"	18"	4'			ACTIVE	
	CRD S ORMSBY W OF 3rd	ORMSBY W OF 3rd ST	38	13	58.0		45		OR	5,3	57.0%	43.0%	0.0%	0.0%	0.0%	NA 75	SIDE WEIR SIDE WEIR	18"	21"	4' 4'			ACTIVE	
3 (	CRD S 4th & ORMSBY	4th & ORMSBY	38	13	58.3		45		OR	14.2	35.5%	29.3%	0.0%	35.2%	0.0%	148	SIDE WEIR	24"	15" 21"	4'			ACTIVE ACTIVE	
4	SALE BENEVILLE SALES	TERMINE COMPARED BY CO.	10 100 g			1 1										IWI.	VI TERRITORIA	Δ <sup>-7</sup>	- 1 - 1	~ (*)			ACTIVE	e Stateman (Stateman)
5 5	SBR MORGAN STREET RELIEF	MORGAN & HOERTZ	38	13	20.8	85	44	30.1	SF BGC	9.5	Included in CSO146	Included in CSO146	Included in CSO146	in []	Included in CSO146	Included in CSO146	HIGH LEVEL PIPE	30"	30"		15"		ACTIVE	
6 (	CHEROKEE PARK @ SPRING DR	CHEROKEE RD & SPRING DR	38	14	0.3	85	41	45.8	MF BGC	464.7	87.6%	12.2%	0.0%	0.1%	0.2%	4,382	DIVERSION DAM	8"	87"				SEWERS	Project on
17 1	2nd & JEFFERSON	2ND & JEFFERSON	20	15	12.5	2.0	15		<u>_</u>							<u> </u>		0	01				SEPARATED	Project on going
	2th & JEFFERSON	12th & JEFFERSON		15			45 46	13.0	OR	2.5	NA (2.70)	NA 0.00/	NA NA	NA NA	NA	NA NA	DIVERSION DAM	8"					ACTIVE	
_	Zin & Jefferson	12th & JEFFERSON	36	C1	10.3	ا ده	10,450,460	and the second	OR	11.2	62.3%	0.0%	0.0%	37.7%	0.0%	NA	DIVERSION DAM	24"	12"				ACTIVE	
	ISth STREET-GREENWOOD	S OF 45th & WINNROSE	38	14	14.3	85	41	41.8	OR	166.7	89.0%	3.6%	0.3%	6.4%	0.7%	1,775	DIVERSION DAM	10"	66"semi- elliptical	NA			ACTIVE	
1 1	MAIN DIVERSION STRUCTURE	WAYNE SUPPLY	38	14	11.5	85	49	40.9	OR	3,478.2	36.0%	24.2%	24.8%	2.8%	12.3%	NA	INFLATABLE DAM	96"	15'-6"X15'-2"	NA			ACTIVE	
	SOs 142,174,180,182,183,184,185,186,187	CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE							SFBGC					3	1									

MORNIS FORMAN SERVICE ARA FORGLATION - 397,0

#### Notes:

This information was developed through computer model simulations processed on March 10, 2004. It is NOT measured data.

The rainfall data utilized as input was an average rainfall year developed through a statistical analysis evaluating 54 years of rainfall data (1948 to 2002) for Jefferson County KY for 2003 model simulation.

he rainfall data utilized for Reference Storm simulations, 2-yr storm and 5-yr storm are historal rainfall events, identified based on statistical analysis of rainfall data (1960-1990).

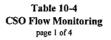
The model simulation was done assuming the peak capacity at MFWTP equal to 350 mgd. However, sustainability of the 350 mgd has not yet been proven.

#### Table 10-2 Summary of CCTV page 1 of 1

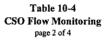
		Inspections		
	ì	у Туре		Length
2000				
P/T		4		790.33
TVF		117		26,122.65
TVI		2 <del>9</del> 7		70,472.35
TVR		31		8,123.97
	Annual Count	449	Annual Length	105,509.30
2001				
TVF		93		22,400.12
TVI		402		94,645.17
TVLIS		1		180.00
TVNC		15		1,500.54
TVR		22		5,474.90
	Annual Count	533	Annual Length	124,200.73
2002				
P/T		2		1,088.80
TVF		77		18,182.24
TVI		319		74,957.02
TVR		22		6,335.79
***	Annual Count	420	Annual Length	100,563.85
2003				
P/T		9 .		2,693.53
TVF		15		3,411.05
TVI		306		71,976.39
TVR		10		1,761.11
	Annual Count	340	Annual Length	79,842.08
2004		10		
P/T		10		2,594.44
TVF		10		2,231.93
TVI		247		58,313.33
TVR		5		1,153.00
	Annual Count	272	Annual Length	64,292.70
2005 D.T.		<b>a</b> +		<u> </u>
P/T		23	•	6,745.62
PMTV		16		1,572.58
TVF		1		300.00
TVI		291		72,050.53
<b>900</b> 4	Annual Count	331	Annual Length	80,668.73
2006		4.		
P/T		34		8,961.30
PMTV		96		20,852.53
TVI		196		48,113.85
	Annual Count	326	Annual Length	77,927.68
	Total # TV	2,671	Total Length	633,005.07
	Inspections	•	Inspected	,

#### Table 10-3 Monitoring Programs page 1 of 1

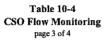
Project/Program Name	CSO	CSS	In - Stream	Purpose
CDS Verification Testing	Х		Х	Performance Evaluation
ORSANCO Wet Weather Demonstration Project	x		Х	Wet Weather Impact Study
Water Quality Tool	Х	Χ	X	CSO Characterization
SILI Manitorina	V			
SIU Monitoring	Х		X	CSO Characterization and Permit Monitoring
Long-Term Monitoring Network			Χ	Water Quality Data Collection
Recreational Contact Season Testing			Х	Water Quality Data Collection
Environmental Technology Verification Program	Х			Performance Evaluation
Force Main Sampling		Х		Influent Characterization
Real Time Control		Χ		Wastewater Flow Management
Willow Pond Testing			Х	Water Quality Data Collection
Beargrass Creek TMDL	Х		X	TMDL Development



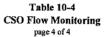
	Meter Location	Monitor Type	Monitoring Period	Number of storms monitored	Avg. Daily Flow (MGD)	Peak Flow Rate (MGD)	Peak Flow Depth (inches)	Max. Rainfall Depth (inches)	Date of Peak	Observations
1	Colorado between Rodman & Creel	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	0.2	84.9	55.3	2.66	3/26/2002	The scattergraph showed good example of normal open channel flow with an obstacle or silt in the sewer line.
3	East Main	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	23.2	119.4	119.4	2.66	3/26/2002	The scattergraph showed the likelihood of debris in the sewerline.
	Nightingale PS	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	2.5	31.3	159.8	2.66	3/26/2002	The scattergraph showed normal open channel pipe flow, with some ariations before reaching a surcharged condition likely due of the downstream pup station. Hydrograph shows flows typical of a site affecte by infiltration
5	Nightingale PS	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	10.6	17.4	125.6	2.66	3/26/2002	The scattergraph showed that the pipe is typically flowing above half-full and the likelihood of a downstream pump station.
6	Seneca Park Road	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	13.7	29.1	104.5	2.66	3/26/2002	Th scattergraph showed the that he pipe is generally flowing at or above half full.
7	Shelby & Caldwell	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	1.2	62.8	48.6	2.66	3/26/2002	The scattergraph showed a good exmaple of normal flos during average conditions. There may be some shifting debris or obstacles in the line.
8	3302 Trout Creek Rd.	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	1.2	19.3	136.3	2.66	3/26/2002	Thi manhole was submerged during the 3/18-3/20 rainfalls. The hydrograph indicates the possibility of a small amount of infiltration.
9	Mall Road	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	5,1	11.8	119.7	2.66	3/26/2002	The scattergraph showed tat the pipe generally flows at approximately half-full or more with some bottlenecking and a possible overflow downstream.
. 10	1225 Union Ave.	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	2.9	25.2	29	2.66	3/26/2002	The sattergraph showed normal open channel flos with a possible light blockage or shifting debris downstream for a time, creating some lower than expected velocities.
12	100 10th Street	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	0.5	42.9	27.9	2.66	3/26/2002	There has been minimal flow in this pipe, even during rain eents. It appears that the flow this pipe was roiginally designed for has been rerouted to another rpart of the sewer system.
13	401 38th Street	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	0.9	6.2	31.4	2.66	3/26/2002	The scattergraph is a very good example of normal open channel.
14	1800 Mellwood Ave.	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	3.2	135.3	55.3	2.66		The scattergraph is very typical of a line experiencing a bottlenecking conditionl. The hydrograph indicates that there may have been almost a complete blockage of the line from March 22-25.
17	Lenox Ave.	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	2.5	156.9	66.6	2.66		Temporary bottleneck or blockage due to debris deposited from the March 26th rainfall event caused some variations in the scattergraph. This hydrograph showed some evidence of infiltration.
18	4526 Broadway	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	2.3	142.0	48.1	2.66	3/26/2002	The scattergraph showed a flow pattern typical of a possible overflow or a dam.
<sup>*</sup> 19	Shawnee Park	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	0.5	84.4	57.6	2.66	3/26/2002	a dam.  The system appears to have been completedly blocked or surcharged from March 23-25, as evidenced on the hydrograph and also depicted as high level readings with zero velocity on the scattergraph.
20	Cardinal & 4th	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	3.5	43.4	167.3	2.66		The scattergraph generally showed normal open channel flow with
22	1309 45th Street	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	1.6	96.6	69.9	2.66	3/26/2002	occasional temporary blockages. The two high level points may indicated the presence of a downstream overflow



Site	Meter Location	Monitor Type	Monitoring Period	Number of storms monitored	Avg. Daily Flow (MGD)	Peak Flow Rate (MGD)	Peak Flow Depth (inches)	Max. Rainfall Depth (inches)	Date of Peak	Observations
28	28th & Broadway	American Sigma 910 A/V	1/29/02 - 4/11/2002	5	0.2	30.3	114.6	2.66	3/26/2002	The scattergraph showed the possibility of silt or an obstacle in the sewer line.
1	Vehicle impoundamnet lot east of Ohio Street	Marsh-McBirney Model 260	Jan through June 1992	18	3.0	20	110	2.31	3/18/1992	The site was subjected to backwater from the Robert J. Starkey PS and the Ohio River. Site contained 16" of silt at the meter location.
2	Washington Street and Cabel Street	Marsh-McBirney Model 260	Apr through June 1992	10	22.0	62	160	2.31	3/18/1992	This flowemeter epxerienced chronic fouling poblems and was relocated to Site 2A during phase two.
2A	Locust Street and Spring Street	Marsh-McBirney Model 260	Apr through June 1992	10	20.0	85	150	2.3	6/18/1992	The flowmeter was relocated from site 2. The site was subjected to the backwater from the Robert J. Stakey PS. The depth spikes result from backwater effects created by wet well levels at the PS.
3	Chrokee Park just east of Bridge No.1	Marsh-McBirney Model 260	Apr through June 1992	10 .	12.0	38	53	2.3	6/18/1992	Recorded good velcotiy and depth data.
4	Beals Branch Road just north of I-64	Marsh-McBirney Model 260	Apr through June 1992	10	2.5	105	26	2.3	6/18/1992	Recorded good velcotiy and depth data.
5	Lexginton Road and Grisntead Dr.	Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	85	26	2.3	6/18/1992	Normal daily flow is only an inch or so deep and this resulted in inaccurated velocity data causing erratic flows to be calculated.
6	South of I-64 and Breckenbridge lane	Marsh-McBirney Model 260	Apr through June 1992	10	9.0	28	68	2.3	6/18/1992	Recorded good velcotiy and depth data.
8	Washington Street and Buchanan Street	Marsh-McBirney Model 260	Apr through June 1992	10	22.0	67	68/139	0.26	5/18/1992	he site was subjected to the backwater from the Robert J. Stakey PS. The depth spikes result from backwater effects created by wet well levels at the PS.
. 9	East Broadway at Campbell Street	Marsh-McBirney Model 260	Jan through June 1992	10	1.5	420	88	2.3	6/18/1992	The flowmeter sensor was offset from the invert at his iste. Dirunal fluctuations expose the sensor during the early moring hours resulting in a loss of data.
10	Caldwell Street and Shelby Street	Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	262	60	0.5	5/2/1992*	The flowmeter sensor was offset from the invert at his iste. Dirunal fluctuations expose the sensor during the early moring hours resulting in a loss of data.
11	Swan Street and Kentucky Street	Marsh-McBirney Model 260	Apr through June 1992	10	1.5	120	45	2.3	6/18/1992	The flowmeter sensor was offset from the invert at his iste. Dirunal fluctuations expose the sensor during the early moring hours resulting in a loss of data.
12	Brent Street just north of Rufer Stree	t Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	100	57	0.5	5/2/1992	Recorded good velcotiy and depth data.
13	Merson Street north of Eastern Parkway	Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	80	20	2.3	6/18/1992	Recorded good velcotiy and depth data.
14	South of Eastern Parkway and west of BeargrassCk	Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	29	17	2.3	6/18/1992	Recorded good velcotiy and depth data.
15	Downstream of Nightingale Diversion	Marsh-McBirney Model 260	Apr through June 1992	10	10.0	13	90	2.3	6/18/1992	This flowmeter experienced fouling prolems intermittently.
16	Trevilian Way and Ashwood Ave.	Marsh-McBirney Model 260	Apr through June 1993	10	1.0	260	39	2.3	6/18/1992	This flowmeter was subjecte to backwater from Beargrass Creek
17	BGI just east of Gardiner Lane	Marsh-McBirney Model 260	Apr through June 1992	10	11.0	19	40/72	1.33	4/15/1992	Recorded good velcotiy and depth data.
18	BGIR just east of Gardiner Lane	Marsh-McBirney Model 260	Apr through June 1992	10	1.0	16	34	2.3	6/18/1992	Recorded good velcotiy and depth data.
19	Union Ave. north of Fayette Ave.	Marsh-McBirney Model 260	Apr through June 1992	10	5.0	34	25	2.3	6/18/1992	The flowmeter site was on the discharge line from the Nightingale PS.



Site	# Meter Location	Monitor Type	Monitoring Period	Number of storms monitored	Avg. Daily Flow (MGD)	Peak Flow Rate (MGD)	Peak Flow Depth (inches)	Max. Rainfall Depth (inches)	Date of Peak	Observations
20	Franklin Street and Johnson Street	Marsh-McBirney Model 260	Jan through Mar 1992	8	0.3	28	19	2.31	3/18/1992	This flowmeter experienced intermittent problems reading depth and velocity
21	Washington Street just west of Campbell St	Marsh-McBirney Model 260	Jan through Mar 1992	8	42.0	6	33		Numerous	Pump operation at the Robert J. Starkey PS can be clearly seen on the graph of typical daily flow.
22	5th Street just north of Market Street	Marsh-McBirney Model 260	Jan through Feb 1992	4	0.5	3	17	0.68	1/13/1992	The flowmeter was reclocated after a few weeks when the flow did not increase significantly during rain events.
23	6th Street at the north edge of Main Street	Marsh-McBirney Model 260	Jan through Feb 1992	4	<0.1	1	5.5	0.68	1/13/1992	The flowmeter was reclocated after a few weeks when the flow did not increase significantly during rain events.
24	10th Street just north of Main Street	Marsh-McBirney Model 260	Jan through Feb 1992	4	<0.1	0.7	4.5	88.0	1/13/1992	The flowmeter was reclocated after a few weeks when the flow did not increase significantly during rain events.
25	Main Street west of 14th Street	Marsh-McBirney Model 260	Jan through Mar 1992	8	42.0	80	67	0.89	3/7/1992	The depth and flow spikes reflect the number of pumps running at the Robert J. Stakey PS.
26	30th Street and Cedar Street	Marsh-McBirney Model 260	Jan through Mar 1992	8	<0.5	53	<del>6</del> 1	2.31	3/18/1992	The flowmeter sensor was exposed during normal flows and yielded data only during rain events.
27	33rd Street and Rudd Ave.	Marsh-McBirney Model 260	Jan through Mar 1992	8	1.2	135	72	2.31	3/18/1992	Recorded good velcotly and depth data.
28&4	1 26th Street and Northwestern Parkway	Marsh-McBirney Model 260	Jan through Mar 1992	8	1.7	12	18	2.31	3/18/1992	The site 28 experienced intermittent fouling problems and was relocated to site 41.
29	38th Street and Herman Street	Marsh-McBirney Model 260	Jan through Mar 1992	8	0.2	29	56	2.31	3/18/1992	The flowmeter experienced numerous problems with sensor fouling and battery life.
30	Amy Street just north of Muhammad Ali Blvd	Marsh-McBirney Model 260	Jan through Mar 1992	8	47.0	-	80	0.82	3/10/1992	The depth and flow spikes reflect the number of pumps running at the Robert J. Stakey PS.
. 31	Winnrose Way and west of Cecil Asvenue	Marsh-McBirney Model 260	Jan through June 1992	4	45.0	113	150/228	1.33	4/16/1992	The depth and flow spikes reflect the number of pumps running at the Robert J. Stakey PS.
32	Shawnee Park opposite of River Park Dr. and Southwestern PKWY	Marsh-McBirney Model 260	Jan through Mar 1992	8	2.0	400	77	2.31	3/18/1992	The flowmeter experienced sporadic problems measuring velcoity
33	Shawnee Park just north of Broadway	Marsh-McBirney Model 260	Jan through Mar 1992	8	2.0	25	80	2.31	3/18/1992	Recorded good velcotiy and depth data.
34	West Broadway just south of Shawnee Park	Marsh-McBirney Model 260	Jan through Mar 1992	8	2.8	300	80	2.31	3/18/1992	The flowmeter sensor was offset from the invert at his iste. Dirunal fluctuations expose the sensor during the early moring hours resulting in a loss of data.
35	West Broadway west of Southwestern PKWY near Ohio River	Marsh-McBirney Model 260	Jan through Feb 1992	4	0.0	25	22	0.64	2/23/1992	The flowmeter was on the overflowside of the sewer and experienced fouling and battery life problems since the senro was dry a majority of the time. The Sewer was monitored during the first half of phase one and relocated udring the second half of phase one.
36E	45th Street just north of Winnrose Way	Marsh-McBirney Model 260	Jan through June 1992	! 18	4.0	32	40/64	0.26	5/17/1992*	The flowmeter experienced chronic fouling problems resulting in inaccurate velocity data.
. 37	-	Marsh-McBirney Model 260	Jan through June 1992	18	5.0	900	212	2.3	6/18/1992	The flowmeter sensor was offset from the invert at his iste. Dirunal fluctuations expose the sensor during the early moring hours resulting in a loss of data.
38	12 Street and Wilson Street	Marsh-McBirney Model 260	Feb through Mar 1992	4	-	-	67	0.68	1/13/1992	The flowmeter site was physically bad location and was not properly calibrated for velcoity. Depth measurements were accurate.
39	Rodman Street and Compton Street	Marsh-McBirney Model 260	Jan through Mar 1992	8	0.3	90	48	2.31	3/18/1992	The flowmeter experienced intermittent fouling problems resulting in inaccurate velocity data.



Site#	Meter Location	Monitor Type	Monitoring Period	Number of storms monitored	Avg. Daily Flow (MGD)	Peak Flow Rate (MGD)	Peak Flow Depth (inches)	Max. Rainfall Depth (inches)	Date of Peak	Observations
40	4th Street and Cardinal Drive	Marsh-McBirney Model 260	Feb through Mar 1992	4	2.0	120	53	2.31	3/18/1992	The flowmeter experienced intermittent fouling problems resulting in inaccurate velocity data.
42	8th Street and Magazine Street	Marsh-McBirney Model 260	Feb through Mar 1992	4	0.5	160	42	2.31	3/18/1992	The flowmeter was relocated from site 22 during the second half of phase one.
43	Hale Street west of 28th Street	Marsh-McBirney Model 260	Feb through Mar 1992	4	0.3	40	50	2.31	3/18/1992	The flowmeter was relocated from site 23 during the second half of phase one.
. 44	Grand Ave west of 26th Street	Marsh-McBirney Model 260	Feb through Mar 1992	4	0.2	-	50	2.31	3/18/1992	The flowmeter was relocated from site 24 during the second half of phase one.
45	23rd Street and Maple Street	Marsh-McBirney Model 260	Feb through Mar 1992	4	0.6	70	87	2.31	3/18/1992	The flowmeter was relocated from site 35 during the second half of phase one.
46	Wilson Street just east of 18th Street	ŕ	Feb through Mar 1992	4	4.0	245	90	2.31	3/18/1992	The flowmeter was relocated from site 38 during the second half of phase one.
50	Near the southern endof Castlewood Dell	Marsh-McBirney Model 260	Apr through June 1992	10	<1.0	65	19	2.3	6/18/1992	Recorded good velcotiy and depth data.
51	Kentucky Street and Schiller Ave.	Marsh-McBirney Model 260	Apr through June 1992	10	18.0	24	46	1.33	4/16/1992	The flowmeter experienced repeated problems recording velocity and failed completely near the end of phase two.
LR1	Taylor Blvd an Camden Ave	Referenced in 1993 CSOP	ADS Envrionmental Services							tende completely from the dire of phase (w).
LR2	Longfield Ave and Cliff Ave	Referenced in 1993 CSOP	ADS Environmental							

LR3 Southwestern Outfall at Sevent

Street

#### Reference

Referenced in 1993 CSOP

Services

Services

ADS Envrionmental

No data recorded during 6/18/1992 event

<sup>\*\*\*</sup>Report on Combined Sewer System Flow Monitroing, Prepared by Tenny Pavoni Associates Inc. February 1993

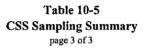
<sup>\*\*\*</sup>Flow Monitoring ReportvCombined Sewer System Flow Monitroing, GRW May, 2002

Table 10-5
CSS Sampling Summary
page 1 of 3

LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATELI	MaxOfCOLDATE
C0000008	CSO 206 effluent	NR X of Spring ST & Cherokee	in park about 30 yards N of ST	67	2/9/2001	5/14/2004
C0000009	CSO 209 EFFLUENT	Scenic Loop at base of Baringer Hill	Path uphill from Christensen Fountain	41	4/12/2004	10/10/2005
C0000010	CSO 108 influent			5	2/15/2001	2/15/2001
C0000011	CSO 108 effluent N Unit			6	2/15/2001	2/15/2001
C0000012	CSO 108 effluent, S Unit			6	2/15/2001	2/15/2001
C0000013	CSO 108 Weir	CSO 108 outfall	FR flow over weir to outfall	11	2/25/2001	4/21/2004
C0000015	CSO 91 Schiller Ave cross BGC		от на продости в достой в дос	2	5/25/2000	3/19/2002
C0000016	S Outfall Surge Basin	1400 Cecil AVE (Wayne Supplly)	S Basin on W side of property	33	8/8/2000	8/3/2006
C0000017	CSO #210, Greenwood AVE Bypass	1401 Cecil AVE (Wayne Supply)	N Basin on W side of property	26	8/8/2000	11/8/2000
C0000018	MH in East Sewer@38th&Main			1	9/9/2000	9/9/2000
C0000024	CSO 110	NR E PKWY Medical CTR	W Side of 1138 E PKWY	68	2/9/2001	5/14/2004
C0000025	CSO 117	behind 989 Logan ST	gate @ E side of lot	49	2/25/2001	5/14/2004
C0000026	CSO 125	X of I-64 W & Grinsted RD	SE corner, 139 FT N of hydrant	28	2/9/2001	12/12/2001
C0000027	CSO 127	MH behind 2295 Lexington RD	14 FT from NW corner of bld	43	2/9/2001	5/14/2004
C0000028	CSO 140	X of Lobdell Alley & Locust ST	40 FT SE of 1401 Locust	22	2/9/2001	3/12/2003
C0000029	CSO 151	1310 Castlewood Dell	46 FT SW off backyard gate	62	2/9/2001	5/14/2004
C0000030	CSO 152	50 FT NW of end of Ruffer ST	Nside of 1203 Ruffer	67	2/9/2001	5/14/2004
C0000031	CSO 153	The state of the s	2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	4	5/7/2001	5/10/2001
C0000032	Manhole #71868	X pf Caldwell & S Shelgy STs	30 FT W of X @ 730 Caldwell	59	1/10/2001	12/16/2001
C0000033	Manhole #08870	70 FT SE of 756 Brent ST	in front of address	49	1/10/2001	12/16/2001
C0000034	Manhole at CSO - 153	1139 Lexington RD	23 FT from rear of business	55	1/10/2001	12/16/2001
C0000035	Manhole #40027	135 FT of 1421 Lexington RD		49	1/10/2001	12/16/2001
C0000036	Manhole #13993	2305 Bickel RD	148 FT NE of address	51	1/10/2001	40/40/0004
C0000037	Manhole #40028	1421 Lexington RD	In Parking Lot on W side	47	1/10/2001	12/16/2001
C0000038	Manhole #12524	Behind 1917 Frankfort AVE	4 FT from APT BLDG parking log	47	2/15/2001	12/16/2001 12/16/2001
C0000041	Manhole #08993	Behind 1110 Eastern PKWY	MH 150 NE down alley	61	1/10/2001	12/16/2001

Table 10-5 CSS Sampling Summary page 2 of 3

C0000042   CSO #16   Greenwood Ave Bypass   @ Whayne Supply   B   11/8/2000		AW 18 18 18 18 18 18 18 18 18 18 18 18 18		page 2 or 3			
C0000043   CSO #19   34th ST & Rudd AVE   In mild 34th, outside of Pump   6   11/8/2000	No. 24 Control of the		LOCDESCR2	SAMPLOC	Number of Samples I	MinOfCOLDATE   N	/axOfCOLDATE
C0000044   CSO #50			,	@ Whayne Supply	8	11/8/2000	11/8/2000
Rowan	C0000043	CSO #19	34th ST & Rudd AVE		6	11/8/2000	11/8/2000
BLDG	C0000044	CSO #50	å		11	11/8/2000	11/8/2000
NSD Manhole #08125   1 1/17/2001   1/17/	C0000045	CSO #189		in grass 15 FT off RD	5	11/8/2000	11/8/2000
C0000054	- Transport	CSO #190	1	In walk, front of 27th ST FPS	2	11/8/2000	11/8/2000
C0000054   MFWTP CSMH#1 - SWI at Chevron   Gez   1/29/2001   9/6/2006   C1/29/2001   11/8/2001   C1/8/2001   C1/	C0000053	MSD Manhole #08125		The state of the s	1	1/17/2001	1/17/2001
Chevron	C0000054	MFWTP CSMH#1 - SWI at		Antonia de Santa (a) i (planta combe philiphy quel (planta propins à phonography en montre par manure (company to manure combe philiphy) quel (planta propins à phonography en manure combe propins à combe de la	365		
Driveway			N. C. C. C. C. C. C. C. C. C. C. C. C. C.			v in an annual se	- California
C0000060	C0000055	1	A STATE OF THE PARTY OF THE PAR		62	1/29/2001	11/8/2001
C0000063         MSD M/H #93135 Effluent         Newburg Rd @ CSO 108         24         577(2001         6/22/2001           C0000067         MSD M/H# 93192         1         4/16/2001         4/16/2001         3/3/2004           C0000070         MSD M/H# 23192         25         4/17/2001         3/3/2004           C0000070         MSD M/H# 56010         1         4/25/2001         4/25/2001           C0000083         Septage Receiving Site @ MFWTP         90         10/22/2001         2/23/2002           C000085         MFWTP CSMH#2A - ORI in Field         329         11/9/2001         9/6/2006           C000086         MH12848 Payer St. near Sturgis         22         3/19/2002         5/22/2002           C0000088         MSD Manhole #08073         3         1/17/2002         1/17/2002           C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C00000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C00000103         MSD Manhole # 30309         3 </td <td>0000000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0000000						
C0000067         MSD M/H# 08279         1         4/16/2001         4/16/2001           C0000069         MSD M/H# 23192         25         4/17/2001         3/3/2004           C0000070         MSD M/H# 56010         1         4/25/2001         4/25/2001           C0000083         Septage Receiving Site @ MFWTP         90         10/22/2001         2/23/2002           C0000085         MFWTP CSMH#2A - ORI in Field         329         11/9/2001         9/6/2006           C0000086         MH12848 Payne St. near Sturgis         22         3/19/2002         5/22/2002           C0000088         MSD Manhole #08073         3         11/17/2002         11/17/2002           C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C0000102         MSD Manhole #30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole #08872         3         3         8/20/2002         8/22/2002           C0000104         CSO 146         3         8/20/2002         8/22/2002	\$			THE CONTROL OF THE PROPERTY OF	\$	terreterreterreterreterreterreterreter	THE PROPERTY OF THE PROPERTY O
C0000069         MSD M/H# 23192         25         4/17/2001         3/3/2004           C0000070         MSD M/H# 56010         1         4/25/2001         4/25/2001           C0000083         Septage Receiving Site @ MFWTP         90         10/22/2001         2/23/2002           MFWTP         MFWTP CSMH#2A - ORI in Field         329         11/9/2001         9/6/2006           C0000086         MFWTP CSMH#2A - ORI in Field         22         3/19/2002         5/22/2002           C0000088         MSD Manhole #08073         3         1/17/2002         1/17/2002           C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C0000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3         8/20/2002         8/22/2002           C0000104         CSO 146         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003			Newburg Rd @ CSO 108		Enmontenantenantenantenantenantenantenanten	*************************************	Tributer legislature regenerate program and company an
C0000070         MSD M/H# 56010         1         4/25/2001         4/25/2001           C0000083         Septage Receiving Site @ MFWTP         90         10/22/2001         2/23/2002           C0000085         MFWTP CSMH#2A - ORI in Field         329         11/9/2001         9/6/2006           C0000086         MH12848 Payne St. near Strigis         22         3/19/2002         5/22/2002           C0000088         MSD Manhole #08073         3         1/17/2002         1/17/2002           C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C0000096         34th St. Pump Sta. Influent         1         4/30/2002         4/29/2002           C0000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         4/24/2003         2/27/20						regressioner in perfection and adjusted (1) for the following property and account of the second of the second	
C0000083         Septage Receiving Site @ MFWTP         90         10/22/2001         2/23/2002           C0000085         MFWTP CSMH#2A - ORI in Field         329         11/9/2001         9/6/2006           C0000086         MH12848 Payne St. near Sturgis         22         3/19/2002         5/22/2002           C0000088         MSD Manhole #08073         3         1/17/2002         1/17/2002           C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C0000096         34th St. Pump Sta. Influent         1         4/30/2002         4/30/2002           C0000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3         3/20/2002         8/22/2002           C0000104         CSO 146         3         3/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003					25		
MFWTP   Section   Colored   Colore					1		**************************************
Field	A CONTRACTOR OF THE CONTRACTOR	MFWTP			90	10/22/2001	2/23/2002
Sturgis         Sturgis         3/22/2002           C0000088         MSD Manhole #08073         3 1/17/2002         1/17/2002           C0000093         MSD Manhole #12841         18 3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20 3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1 4/29/2002         4/29/2002           C0000096         34th St. Pump Sta. Influent         1 4/30/2002         4/30/2002           C0000102         MSD Manhole # 30309         3 8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3 8/20/2002         8/22/2002           C0000104         CSO 146         3 8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6 8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4 2/24/2003         2/27/2003           C0000114         CSO 121         3 3/11/2003         3/13/2003	C0000085				329	11/9/2001	9/6/2006
C0000093         MSD Manhole #12841         18         3/19/2002         3/31/2002           C0000094         MSD Manhole #12866         20         3/19/2002         3/31/2002           C0000095         MH Kendall Ct. & Anderson St.         1         4/29/2002         4/29/2002           C0000096         34th St. Pump Sta. Influent         1         4/30/2002         4/30/2002           C0000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3         8/20/2002         8/22/2002           C0000104         CSO 146         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003	N. AFT AND AND AND AND AND AND AND AND AND AND	Sturgis		And the state of t	22	3/19/2002	5/22/2002
C0000093       MSD Manhole #12841       18       3/19/2002       3/31/2002         C0000094       MSD Manhole #12866       20       3/19/2002       3/31/2002         C0000095       MH Kendall Ct. & Anderson St.       1       4/29/2002       4/29/2002         C0000096       34th St. Pump Sta. Influent       1       4/30/2002       4/30/2002         C0000102       MSD Manhole # 30309       3       8/20/2002       8/22/2002         C0000103       MSD Manhole # 08872       3       8/20/2002       8/22/2002         C0000104       CSO 146       3       8/20/2002       8/22/2002         C0000105       MSD Manhole # 71867       6       8/20/2002       1/23/2003         C0000113       MSD Manhole # 08882       4       2/24/2003       2/27/2003         C0000114       CSO 121       3       3/11/2003       3/13/2003	C0000088	MSD Manhole #08073			3	1/17/2002	1/17/2002
C0000094       MSD Manhole #12866       20       3/19/2002       3/31/2002         C0000095       MH Kendall Ct. & Anderson St.       1       4/29/2002       4/29/2002         C0000096       34th St. Pump Sta. Influent       1       4/30/2002       4/30/2002         C0000102       MSD Manhole # 30309       3       8/20/2002       8/22/2002         C0000103       MSD Manhole # 08872       3       8/20/2002       8/22/2002         C0000104       CSO 146       3       8/20/2002       8/22/2002         C0000105       MSD Manhole # 71867       6       8/20/2002       1/23/2003         C0000113       MSD Manhole # 08882       4       2/24/2003       2/27/2003         C0000141       CSO 121       3       3/11/2003       3/13/2003	C0000093	MSD Manhole #12841	The state of the s		18		
C0000095       MH Kendall Ct. & Anderson St.       1       4/29/2002       4/29/2002         C0000096       34th St. Pump Sta. Influent       1       4/30/2002       4/30/2002         C0000102       MSD Manhole # 30309       3       8/20/2002       8/22/2002         C0000103       MSD Manhole # 08872       3       8/20/2002       8/22/2002         C0000104       CSO 146       3       8/20/2002       8/22/2002         C0000105       MSD Manhole # 71867       6       8/20/2002       1/23/2003         C0000113       MSD Manhole # 08882       4       2/24/2003       2/27/2003         C0000114       CSO 121       3       3/11/2003       3/13/2003	C0000094	MSD Manhole #12866				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	riidei kalaanii inkali ameesa animmo na moo moo moo yo yo yo yo yo yo yo ya ya ya ya ya ya ya ya ya ya ya ya y
C0000102         MSD Manhole # 30309         3         8/20/2002         8/22/2002           C0000103         MSD Manhole # 08872         3         8/20/2002         8/22/2002           C0000104         CSO 146         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003	C0000095				1		ANALSKA KANTON OF THE PROPERTY OF THE PROPERTY OF THE PAR
C0000102       MSD Manhole # 30309       3       8/20/2002       8/22/2002         C0000103       MSD Manhole # 08872       3       8/20/2002       8/22/2002         C0000104       CSO 146       3       8/20/2002       8/22/2002         C0000105       MSD Manhole # 71867       6       8/20/2002       1/23/2003         C0000113       MSD Manhole # 08882       4       2/24/2003       2/27/2003         C0000114       CSO 121       3       3/11/2003       3/13/2003	C0000096	34th St. Pump Sta. Influent	1		1	4/30/2002	4/30/2002
C0000103         MSD Manhole # 08872         3         8/20/2002         8/22/2002           C0000104         CSO 146         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003	C0000102		A the first detailed and control of the control of	The second of the second secon	Contraction property contract to contract the test of the contract to the cont		
C0000104         CSO 146         3         8/20/2002         8/22/2002           C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003	C0000103		Art of the Art of the				
C0000105         MSD Manhole # 71867         6         8/20/2002         1/23/2003           C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003					<u> </u>		Conference and a contract of the contract of t
C0000113         MSD Manhole # 08882         4         2/24/2003         2/27/2003           C0000114         CSO 121         3         3/11/2003         3/13/2003	C0000105	MSD Manhole # 71867	The state of the s	n vinn sa de la companya de la compa			
C0000114 CSO 121 3 3/11/2003 3/13/2003	C0000113	MSD Manhole # 08882				American de Caracteria de Como porque por proper proper de proper de la companya de la companya de la companya	management per paggaga yang yang bagai pagga (pengula pengula pengula pengula pengula pengula pengula pengula p
0000445	C0000114				***************************************		
	C0000115	CSO 083			4	3/10/2003	3/13/2003



LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
C0000117	MSD Manhole #85123			4	12/7/2005	8/3/2006
C0000120	MH near dump site at Cabel St			4	7/21/2003	9/12/2003
C0000127	MSD M/H #04249			1	3/3/2004	3/3/2004
C0000128	Influent to Buchanan St PS		Annual Control of Cont	1	3/9/2004	3/9/2004
C0000131	MSD Manhole # 12774		***************************************	1	4/18/2004	4/18/2004
C0000142	CSO #190 Upstream of Weir	Upstream of CSO 190	Sample in same MH as CSO 190 US of weir	4	12/7/2005	7/31/2006
C0000143	MSD Manhole 08076-T	Upstream of CSO 19	Rudd Ave just West of 33rd St	4	12/7/2005	7/31/2006
C0000144	MSD Manhole 08726-SM	Upstream of CSO 189	In grass near River Park Drive & SW Pwy	ot recense some and section of minimizes a section for the minimize superior section of the sect	11/30/2005	7/31/2006
C0000145	MSD Manhole 08635	Upstream of CSO 105	Center of st @ 4526 W Broadway	4	12/7/2005	7/31/2006
C0000146	CSO 104 upstream of dam	Upstream of CSO 104	SE corner Southeastern Pky & W Broadway	4	12/7/2005	7/31/2006
C0000147	MSD Manhole 08112-SM	Upstream of CSO 16	In front of 1309 S 45th Street	4	11/30/2005	8/3/2006
C0000148	Access point 50' N of CSO 210	Upstream of CSO 210	In North detention basin @ Whayne Supply	4	11/30/2005	8/3/2006
C0000149	CSO 191 upstream of dam	Upstream of CSO 191	In SWPS driveway 100' S of RR tracks	4	11/30/2005	8/3/2006
C0000150	Starkey Pump Stn (Buchanan)			2	11/16/2005	12/2/2005

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LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
C0000001	J'town CSMH 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77-7-19-11-19-10-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	198	5/8/2000	8/17/2006
C0000002	J'town CSMH 2			203	5/8/2000	8/17/2006
C0000003	J'town CSMH 3			193	5/8/2000	8/17/2006
C0000004	J'town CSMH 4			193	5/9/2000	8/17/2006
C0000005	J'town CSMH 5			176	5/8/2000	10/20/2005
C0000006	J'town Chenoweth Run PS			60	5/10/2000	10/17/2005
C0000019	MH 78' line west of Riverdale			1	9/21/2000	9/21/2000
C0000020	MH Bethany Ln @SDFD			1	9/21/2000	9/21/2000
C0000021	MH Ashby Ln @ Mill Creek			2	9/21/2000	9/27/2000
C0000022	MH Johnsontown Rd@Black Pond			2	9/21/2000	9/27/2000
C0000023	MH Oak Park at Stephen Ditch			1	9/27/2000	9/27/2000
C0000039	Manhole #51174	Rent Creek ADT Parking	MH NR X of Terril & Peabody	56	1/10/2001	12/16/2001
00000000	Walkloic #51117	Lot	WITHIT X OF TERM & F EADOUY	30	1/10/2001	12/10/2001
C0000040	Manhole #45835	NR X of Alta Vista & Seneca PK	MH 25 yards W of Alta Vista	59	1/10/2001	12/16/2001
C0000049	Hite Creek CSMH #3			20	4/16/2001	9/11/2006
C0000056	WCWTP CSMH#1 (PC-1)			75	3/5/2001	7/18/2006
C0000057	WCWTP CSMH#2 (PC-2)			73	6/8/2000	7/18/2006
C0000058	WCWTP CSMH#3 (MC-1)			76	3/5/2001	7/18/2006
C0000059	WCWTP CSMH #4 (MC-2)			79	3/5/2001	7/18/2006
C0000061	Hite Creek CSMH #6			15	4/16/2001	9/11/2006
C0000064	Manhole bh 3333 Bardstown Rd.			25	4/9/2001	11/29/2001
C0000065	Manhole at 7607 Old Shep' Road			28	4/9/2001	11/29/2001
C0000066	Manhole bh 9800 Shelbyville Rd			24	4/9/2001	11/29/2001
C0000071	J'town CSMH 2A			3	8/14/2001	8/16/2001
C0000072	J'town CSMH 2B			3	8/14/2001	8/16/2001
C0000084	MH1083-PS Beckley Station			9	10/22/2001	11/15/2001
C0000090	MSD Manhole #48775			7	8/20/2002	1/30/2003
C0000091	MSD Manhole #30683-SM			6	8/20/2002	1/30/2003
C0000092	MSD Manhole #18916			1	2/20/2002	2/20/2002
C0000097	J'town CSMH 2A-1			4	6/10/2002	6/13/2002
C0000098	J'town CSMH 2A-2			4	6/10/2002	6/13/2002
C0000099	MSD Manhole #19076			2	6/11/2002	6/11/2002
C0000100	MSD Manhole #46488			1	7/1/2002	7/1/2002
C0000101	MSD Manhole #19161			1	7/1/2002	7/1/2002
C0000107	MSD Manhole # 21058	200 TYNE RD	In Front Yard, 20 FT E of	101	12/18/2002	5/27/2004
			DRWY	101	12/10/2002	5/2//2004
C0000108	MSD Manhole # 21102	116 MARSHALL DR	Middle of ST, 10 FT from PROP	92	2/9/2002	5/27/2004
C0000109	MSD Manhole # 21094	271 Brunswick RD	2 FT N of Driveway	66	12/18/2002	12/18/2003
C0000110	MSD Manhole # 25017	Stongehenge APTS	25 FT W of APT 308	97	12/18/2002	5/27/2004
C0000112	MSD Manhole # 18534	3048 Radiance RD	Middle of ST, 10 FT from	12	12/18/2002	12/18/2003
			PROP			,
C0000121	MSD M/H #08430			1	9/2/2003	9/2/2003
C0000126	SSO @ Southeast Div. Structure	South Fork Beargrass &	Sample overflow pipe	1	3/9/2005	3/9/2005
		Buechel Branch	• •			2. 3, 2000
C0000129	MSD MH# 08935-SM	1001 Breckenridge LN	S of CRK, NE corner Pking lot	10	5/24/2004	5/26/2004

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			page z or z			
LOCCODE	DESCR	LOCDESCR2	SAMPLOC N	lumber of Samples MinOfCC	JLDATE M	axOfCOLDATE
C0000130	MSD MH# MSD0012-PS	Highgate Springs Pump	N of SFBGC & S 3246	28	5/25/2004	3/12/2006
		Station	Radiance RD			
C0000134	Shively Pump Station			1	3/15/2005	3/15/2005
C0000137	Pumped SSO @Cordova & Biltmore	MSD Manhole #21153	In front yard of 4524 Cordova	8	3/12/2006	3/12/2006
			Road			
C0000139	Lake Forest CSMH 1	MSD Manhole #84509		68	7/24/2005	7/27/2005
C0000140	Lake Forest CSMH 2	MSD Manhole #84511		23	7/24/2005	7/25/2005
C0000141	Lake Forest CSMH 3	MSD Manhole #84512		69	7/24/2005	7/27/2005

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	Location	MH @ CSO		MH 12524	MH13993		MH40027	MH40028		MH4583		MH 51174		MH 71868	MH 088	 MH 0899	
	LOCCODE Sewershed Characteristics	C0000034 Single Fam Residentia	ily	C0000038  Single and Multi- Family Residential	C0000036 Single and Mo Family Reside	ulti-	C0000035 Mixed Use	C0000037 Mixed Use		C000004 Single Far Residential an Space	nily d Park	C0000039 Multi-Family Residential		C0000032 Single Family Residential	C00000 Mixed (	C000004 Mixed Us	
	Project	Water Quality Tool		Water Quality Tool	Water Quality Tool		Water Quality Tool	Water Quality Tool		Water Quality Tool		Water Quality Tool		Water Quality Tool	Water Quality Tool	Water Quality Tool	
	Period	2001		2001	2001		2001	2001		2001		2001		2001	2001	2001	
	Event Based?	Y		Υ	Υ		Υ	Υ		Υ		Υ		Υ	Υ	Υ	
	Number of Dry Weather Events	2		0	2		2	2		2		2		2	2	2	
	Number of Wet Weather Event	5		5	5		4	4		6		5		6	5	7	
	Number of Tests	28		21	23		28	24		31		28		30	28	30	
Ammonia N (mg/L)	Minimum Result	0.006		0.0022	0.5		0.06	0.06		0.06		0.06		0.06	0.017	0.342	
(1119/2)	Maximum Result	36		3	50		7	21		23		22		22	16	58	-
	Number of Tests	6		6	6		6	6		6		6		6	6	6	
Arsenic (mg/L)	Minimum Result	0.002		0.002	0.002		0.002	0.002		0.002		0.002		0.002	0.002	0.002	
	Maximum Result	0.0025		0.00777	0.00386		0.00518	0.0042		0.00336		0.0057		0.0045	0.002	0.0047	
	Number of Tests	28		21	23		27	24		31		28		30	26	30	
Barium (mg/L)	Minimum Result	0.0037		0.00576	0.002		0.0115	0.0346		0.002		0.002		0.0086	0.006	0.002	
(9/ = /	Maximum Result	0.087		0.126	0.061		0.17	0.151		0.76		0.137		0.071	0.445	 0.057	-
	Number of																+
Beryllium	Tests Minimum	22		14	17		21	19	$\dashv$	25		22		24	20	23	+
(mg/L)	Result Maximum	0.001		0.002	0.001		0.002	0.001		0.001		0.001	-	0.002	0.002	0.002	
BOD (5-	Result Number of	0.002		0.002	0.008		0.002	0.002	_	0.002		13.9		0.002	0.002	0.002	_
Day) (mg/L)		28		22	26		24	25		31		28	_	31	24	31	
	Minimum	3	I	8	7	1	6	7	1	6		6		6	9	<u> </u>	

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	Location	MH @ CSO 153	MH 12524	MH13993	MH40027	MH40028	MH45835	MH 51174	MH 71868	MH 08870	MH 08993
	LOCCODE	C0000034	C0000038	C0000036	C0000035	C0000037	C0000040 Single Family	C0000039	C0000032	C0000033	C0000041
	Sewershed Characteristics	Single Family Residential	Single and Multi- Family Residential	Single and Multi- Family Residential	Mixed Use	Mixed Use	Residential and Park Space	Multi-Family Residential	Single Family Residential	Mixed Use	Mixed Use
	Result  Maximum  Result	320	210	250	142	140	282	220	245	123	220
	Number of Tests	28	21	23	26	24	31	28	29		30
Cadmium (mg/L)	Minimum Result	0.0002	0.0002	0.00014	0.002	0.0002	0.002	0.0002	0.002	0.002	0.002
(mg/L)	Maximum Result	0.002	0.002	0.002	0.0022	0.01389	0.3556	0.002	0.002	0.002	0.079
	Number of Tests	22	15	17	21	19	25	22	24	20	24
Calcium (mg/L)	Minimum Result	0.003	7.57	13.3	11.6	28	50.1	14.8	13.73	13.7	6.34
	Maximum Result	56.2	40.9	60.1	188	80	74.4	78.9	65.2	78.3	60
<b></b>	Number of Tests	21	15	17	21	19	24	21	24	21	24
Chloride (mg/L)	Minimum Result	4.86	3.66	6.21	16.71	28.38	40.12	6.72	6.1	9.1	4.8
	Maximum Result	110.08	5.1	132.84	5260	124.83	103.97	106.75	2810	110.77	102.9
Chromium	Number of Tests Minimum	28	20	23	27	25	30	28	29	26	30
(mg/L)	Result  Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Result Number of	0.166	0.022	0.013	0.016	0.006	0.815	0.0199	0.009	0.006	0.03
Fecal	Tests Minimum	22	22	26	22	25	29	28	31	23	26
Coliform col/100mL)	Desuit	6,000	480	1	1,000	6,000	6,000	2,100	0	593	6,000
	Result Number of	125X10 <sup>6</sup>	34X10 <sup>6</sup>	34X10 <sup>6</sup>	36X10 <sup>6</sup>	34X10 <sup>6</sup>	36X10 <sup>6</sup>	38X10 <sup>6</sup>	34X10 <sup>6</sup>	2X10 <sup>6</sup>	34X10 <sup>6</sup>
Copper	Tests Minimum	22	15	17	21	19	24	22	24	20	24
(mg/L)	Result Maximum	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	Result Number of Tests	0.04	0.04	0.072	0.107	0.103	0.141	0.109	2.94	0.108	0.048
on (mg/L)	Minimum Result	0.07	0.42	0.0435	0.7	0.889	0.378	0.051	0.64	0.03	0.4
	Maximum Result	6.71	11.3	2.1	22.4	29.3	4.99	7.89	4.54	2.14	1.66
ead (ug/L)	Number of Tests	28	21	23	27	25	30	28	30	28	30
	Minimum	0.001	13.7	7.04	7.105	3.4	2.73	3.78	9.97	1	6.98

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	Location	MH @ CSO 15			MH1399	<del></del>	MH400		MH40		MH458		MH 5117		MH 7	 MH 08		MH 08	
	LOCCODE Sewershed	C0000034 Single Family	C000003 Single and M		C000003		C0000	035	C0000	037	C00000 Single Fa Residential a	amily	C000003 Multi-Fam		C000 Single	 C0000	0033	C0000	)041
	Characteristics	Residential	Family Reside	ential Far	mily Resid	ential	Mixed	Use	Mixed	Use	Space		Residenti		Resid	Mixed	Use	Mixed	Use
	Result Maximum																		
	Result	45.9	516.4	7.	48.42		27.605		27.487		14.1		112.03		81.97	53.6		258.4	
	Number of Tests	22	15		17		21		19		31		22		24	20		24	
agnesium (mg/L)	Minimum Result	0.012	1.05		2.01		1.96		6.85		0.0002		2.78		1.863	0.021		1.087	
(IIIg/L)	Maximum																		
	Result Number of	15.6	7.878		15.8		34.7		20		0.00097		16.3		17.4	17.3		15.4	····
	Tests	28	21		23		27		25		30		28		24	28		30	
Mercury (ug/L)	Minimum Result	0.08	0.08		0.08		0.08		0.08		0.08		0.08		0.08	0.0002		0.002	
(ug/L)	Maximum																		
	Result  Number of	0.38	0.2		0.703		0.44		0.58		0.97		0.386		0.514	0.00132		1.02	
	Tests	22	14		17		21		18		25		22		24	20		24	
Nickel (mg/L)	Minimum Result	0.001	0.003		0.001		0.001		0.001		0.001		0.001		0.003	0.001		0.001	
(1119/2)	Maximum																		
	Result Number of	0.147	0.022	<del>                                     </del>	0.01		0.042		0.004		0.447		0.011		0.01	0.003		0.01	
	Tests	19	12		14		22		8		11		12		23	21		18	
Nitrate (mg/L)	Minimum Result	0.28	0.01		0.01		0.44		0.26		0.01		0.01		0.01	0.29		0.01	
(111912)	Maximum																		
	Result Number of	1.39	1.05		1.6		1.84		1.55		1.29		1.42		5.06	2.08		1.14	
	Tests	21	5		12		6		2		9		4		23	12		9	
Nitrite (mg/L)	Minimum Result	0.005	0.005		0.005		0.33		0.27		0.005		0.005		0.005	0.005		0.005	
(***3/ =/	Maximum																		
	Result Number of	0.75	0.25		1.03		0.55		0.37		2.33		0.7	+	0.28	0.78		0.35	
Ortho-	Tests	20	15		16		20		16		23		15		22	20		23	
hosphate	Minimum Result	0.34	0.31		0.4		0.33		0.7		0.61		0.34		0.05	0.34		0.31	
(mg/L)	Maximum		1.49																
	Result  Number of	4.87	1.48		5.44		1.78	<u> </u>	2.53		2.79		2.63		9.4	5.01		4.35	
Dumointe 51	Tests	28	19		20		28		24		28		25		27	25		27	
Organic N (mg/L)	Minimum Result	0.006	0.1		0.8		0.5		0.672		0.06		0.06		0.63	0.17		0.66	
/	Maximum		10.2																
Total	Result  Number of	0.018	[U.∠]		38	<u> </u>	19		10.6		23		27		12	13		15	
hosphorus	Tests	28	21		29		27		25		18		28		30	 28		30	
(mg/L)	Minimum	0.02	0.4		0.41		0.27		0.281		1.1		0.023		0.1	0.002		0.239	

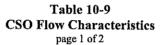
Table 10-7 CSS Pollutant Characterization page 4 of 4

	<u> </u>		T	I	1	rge 4 01 4	7				
	Location	MH @ CSO 153	MH 12524	MH13993	MH40027	MH40028	MH45835	MH 51174	MH 71868	MH 08870	MH 08993
	LOCCODE	C0000034	C0000038	C0000036	C0000035	C0000037	C0000040	C0000039	C0000032	C0000033	C0000041
	Sewershed Characteristics	Single Family Residential	Single and Multi- Family Residential	Single and Multi- Family Residential	Mixed Use	Mixed Use	Single Family Residential and Park Space	Multi-Family Residential	Single Family Residential	Mixed Use	Mixed Use
	Result										
	Maximum Result	7.9	303	140	5.97	6.31	6.81	281	274	122	176
	Number of Tests	28	21	23	26	25	31	28	30	28	30
Selenium (mg/L)	Minimum Result	0.002	0.001	0.001	0.00028	0.002	0.00`	0.001	0.001	0.001	0.001
	Maximum Result	0.002	0.002	0.002	0.0043	0.0088	0.0026	0.0025	0.002	0.002	0.010
	Number of Tests	28	20	23	27	25	30	27	30	26	30
Silver (mg/L)	Minimum Result	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Maximum Result	0.013	0.002	0.011	0.031	0.024	0.32	0.028	0.15	0.171	0.12
	Number of Tests	28	22	26	23	25	31	28	31	25	30
TSS (mg/L)	Minimum Result	5	29	27	9	62	62	45	18	7	16
	Maximum Result	200	1217	247	826	245	248	430	288	125	212
	Number of Tests	9	8	12	9	9	12	12	12	12	12
TKN (mg/L)	Minimum Result	2.7	3.2	1.86	3.98	6	9	1.98	1	1.86	1.3
	Maximum Result	40	12.6	56	24	28	32	26	32	25	68
	Number of Tests	31	26	31	26	28	33	31	37	30	32
TOC (mg/L)	Minimum Result	5.0	4.0	4.0	0.6	1.6	4	2.3	3.0	3.36	3
	Maximum Result	118	170.0	92	15	26.4	46	44.9	85.1	39.3	59.1
-T. /O.O.	Number of Tests	28	22	26	23	25	30	28	31	24	30
TVSS (mg/L)	Minimum Result	6	7	1	1	9	8	1	1	1	1
	Maximum Result	200	1198	130	756	116	184	398	250	66	168
	Number of Tests	22	15	17	21	19	24	22	24	19	24
Zinc (mg/L)	Minimum Result	0.008	0.031	0.038	0.028	0.036	0.037	0.008	0.1	0.008	0.038
	Maximum Result	0.234	0.343	0.183	0.615	0.133	0.179	0.199	0.4	0.174	0.228

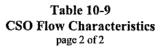
The source for all data presented in this table is MSD LIMS database. Please contact Patrick Fitzgerald for more information

## **Table 10-8** CSS Pollutant Characterization page 1 of 1

<u></u>			·			To	otal Numbe	er of Samp	oles				
Location	Year	# of Sampled Wet Weather Events	# of Sampled Dry Weather Events	# of Storm Events	BOD	Nutrients	Solids	Metals	Fecal Coliform	TOC	Purpose	Project	Source (Contact)
MH @ CSO 153	2001	2	5	10	27	27	27	27	27	27	CSO Characterization	CSS Model	MSD LIMS Database (Patrick Fitzgerald)
MH 12524	2001	0	5	10	21	21	21	21	21	21	CSO Characterization	CSS Model	MSD LIMS Database (Patrick Fitzgerald)
MH 13993	2001	2	5	10	27	27	27	27	27	27	CSO Characterization	CSS Model	MSD LIMS Database (Patrick Fitzgerald)
MH 40027	2001	2	4	10	24	24	24	24	24	24	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)
MH 40028	2001	2	4	10	24	24	24	24	24	24	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)
MH 45835	2001	2	6 •	10	30	30	30	30	30	30	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)
MH 51174	2001	2	5	10	27	27	27	27	27	27	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)
MH 71868	2001	2	6	10	X	X	X	X	X	X	CSO Characterization	Data to Develop CSO Prioritization  Model	MSD LIMS Database (Patrick Fitzgerald)
MH 8870	2001	2	5	10	24	24	24	24	24	24	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)
MH 8993	2001	2	7	10	30	30	30	30	30	30	CSO Characterization	Data to Develop CSO Prioritization Model	MSD LIMS Database (Patrick Fitzgerald)



CSO#	Average Annual Overflow Volume	Land Use	Period	# of Rain (?) Events	Parameters Monitored	Data Interval	Project	Purpose
,		Mixed Use	1999 - 2003	TBD	Flow	5-min?	Performance Evaluation	CSO activity
108		Mixed Ose	1/2001 – 12/2001	9	Flow	5-min?	CSS Model	CSO activity
			1/2004 – 6/2006	5	Flow	5-min?	TMDL	CSO activity
	Audience, Spieger	The same of the sa						
110		Single Family Residential and	1/2001 – 12/2001	9	Flow	5-min?	CSS Model	CSO activity
		Park Space	1/2004 – 6/2006	5	Flow	5-min?	Data to Development TMDL	CSO activity
000 447		Single Family Residential and	1/2001 – 12/2001	9	Flow	5-min?	Data to Development CSO Prioritization Model	CSO activity
CSO 117		Industrial	1/2004 6/2006	5	Flow	5-min?	Data to Development TMDL	CSO activity
CSO 125		Single Family Residential	1/2001 — 12/2001	9		5-min?	Data to Development CSO Prioritization Model	CSO activity
					Macago (Million)			
CSO 127		Single Family Residential and	1/2001 – 12/2001	9		5-min?	Data to Development CSO Prioritization Model	CSO activity
		Commercial	1/2004 – 6/2006	5		5-min?	Data to Development TMDL	CSO activity
CSO 140		Single Family Residential and Industrial	1/2001 – 12/2001	9		5-min?	Data to Development CSO Prioritization Model	
			1/2005 – 6/2006	1		5-min?	Data to	



CSO#	Average Annual Overflow Volume	Land Use	Period	# of Rain (?) Events	Parameters Monitored	Data Interval	Project	Purpose
<u> Carinera de la compaña de la compaña de la compaña de la compaña de la compaña de la compaña de la compaña de</u>	LES AND PRODESTABLE CONTRACTORS	Herrical Composition of the Comp		Jihan Sakati Baska (1616)		(Aladerija en en en el	Development TMDL	
							Development TWDL	
							Data to	
CSO 151		Single Family Residential	1/2001 – 12/2001	9		5-min?	Development CSO Prioritization Model	
		T CONTROL THE CONT	1/2004 — 6/2006	5		5-min?	Data to Development TMDL	
	and the second s							
The second secon		Single Family					Data to	
CSO 152		Residential and	1/2001 – 12/2001	9	Ì	5-min?	Development CSO Prioritization Model	
		Commercial	172001 12/2001			3-1111111	Data to	
			1/2004 - 6/2006	5		5-min?	Development TMDL	
			use grand the outlier of				STREET, SECTION OF	
CSO 153		Single Family					Data to	
030 133		Residential	1/2001 – 12/2001	9		E min 2	Development CSO	
			1/2001 — 12/2001	9		5-min?	Prioritization Model	
							Data to	
		Single Family					Development CSO	
CSO 206		Residential	1/2001 – 12/2001	9 .		5-min?	Prioritization Model	
			4/0004 0/0000	_			Data to	
			1/2004 — 6/2006	5		5-min?	Development TMDL	
		Single Family						
CSO 209		Residential and			,		Data to	
		Park Space	1/2004 - 6/2006	5		5-min?	Development TMDL	

	Location	CSO 206		O 108 Weir	CSO ·		CSO 117	CSO 125		CSO 127	CSO 140	CSO 151	CSO 152	CSO 153
	LOCCODE Sewershed	C0000008 Single Family Residential and P	ark	0000013	C0000		C0000025	C0000026		C0000027	C0000028	C0000029 Single Family	C0000030 Single Family	C0000031
	Characteristics	Space	N	lixed Use	Mixed	Use	Mixed Use	Park Space		Commercial	Mixed Use	Residential	Residential	Mixed Use
	Project	Water Quality Tool TMDL Development	Water Quality Tool	Develo	Water Quality Tool	TMDL Development	Water Quality Tool TMDL Development	Water Quality Tool		Water Quality Tool TMDL Development	Water Quality Tool TMDL Development	Water Quality Tool TMDL Development	Water Quality Tool TMDL Development	Water Quality Tool
	Period	2001 2004 - present	2001	2004 - present	2001	2004 - present	2001 2004 - present	2001		2004	2001 2006 - present	2001 2004 - present	2001 2004 - present	2001
	Event Based?	YY	Υ	Υ	Υ	Υ	YY	Υ	Υ	Υ	YY	YY	YY	Υ
	Number of Dry Weather Events	7 5	7	5	7	5	7 5	7		7 5	7 1	7 5	7 5	7
	Number of Tests	_	2		11		10	13		9	5	13	16	1
Ammonia N (mg/L)	Minimum Result	_	1		0.06		0.224	0.06	(	0.06	0.34	0.67	0.06	4.2
( ) /	Maximum Result	-	1.06		4		3.8	2.1		4.3	1.7	4.6	6.0	4.2
	Number of Tests	-	1		3		3	5		4	1	3	7	1
Arsenic (mg/L)	Minimum Result	-	0.00208		0.002		0.00404	0.002	0.	002	0.00401	0.002	0.002	0.00301
	Maximum Result	-	0.00208		0.00435		0.00522	0.00329	0.00	527	0.00401	0.0028	0.00279	0.00301
	Number of Tests	-	2		14		13	15		10	8	16	19	1
Barium (mg/L)	Minimum Result	-	0.049		0.018		0.0329	0.021	0.	028	0.038	0.015	0.0127	0.346
	Maximum Result	-	0.0728		0.143		0.175	0.111	0.	157	0.15	0.134	0.124	0.346
	Number of Tests	_	1		11		10	10		7	7	13	13	-
Beryllium (mg/L)	Minimum Result	_	0.002		0.002		0.002	0.002	0.	001	0.002	0.002	0.002	_
· • /	Maximum Result	-	0.002		0.002		0.002	0.002		002	0.002	0.002	0.002	-
BOD (5-														

Table 10-10 CSO Sampling Summary page 2 of 4

			1		Pago					<del></del>	:
	Location	CSO 206	CSO 108 W	eir CSO 110	CSO 117	CSO 125	CSO 127	CSO 140	CSO 151	CSO 152	CSO 153
	LOCCODE	C0000008	C0000013	C0000024	C0000025	C0000026	C0000027	C0000028	C0000029	C0000030	C0000031
	Sewershed Characteristics	Single Family Residential and Park Space	Mixed Use	Mixed Use	Mixed Use	Park Space	Commercial	Mixed Use	Single Family Residential	Single Family Residential	Mixed Use
	Tests										
Day) (mg/L)	Minimum Result	22	20	20	6	7	8	3	21	8	290
	Maximum Result	39	48	138	231	1330	241	85	112	130	290
	Number of Tests	14	2	14	13	15	11	8	16	19	1
Cadmium (mg/L)	Minimum Result	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	Maximum Result	0.001228	0.4047	1.4731	2.7894	2.2945	1.391	2.3501	0.8648	2.008	0.002
O a baile sea	Number of Tests	11	1	11	10	10	7	7	13	12	FR
Calcium (mg/L)	Minimum Result	6.07	13	9.74	13.87	11.7	10.36	30.5	8.33	13.71	<u>-</u>
	Maximum Result	57.2	13	55.2	48	42.4	43	103.24	53.2	51.5	
Oblanista	Number of Tests	11	1	11	10	10	7	7	13	12	_
Chloride (mg/L)	Minimum Result	4.31	6.86	0.002	6.45	6.96	7.35	6.11	7.21	6.81	
	Maximum Result	113.52	6.86	0.029	116.82	56.72	65.41	67.2	71.55	109.69	_
Chromium	Number of Tests	14	2	14	10	10	11	7	16	19	1
(mg/L)	Minimum Result Maximum	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0:0375
	Result Number of	0.026	0.006	0.029	0.107	0.017	0.05	0.027	0.016	0.021	0.0375
recai	Tests Minimum	8	2	12	10	16	10	9	13	15	3
Coliform (col/100mL)	Result Maximum	7200	11000	18200	100	580	10	430	10	10	120000
	Result Number of	12x10 <sup>5</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>	2.1x10 <sup>6</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>	12x10 <sup>5</sup>
Copper	Tests Minimum	11	1	11	20	10	7	7	13	12	-
(mg/L)	Result Maximum	0.01	0.045	0.027	0.028	0.024	0.024	0.003	0.01	0.015	-
	Result Number of	0.134	0.045	0.143	0.611	0.151	0.125	0.063	0.142	0.165	-
Iron (mall)	Tests Minimum	11	1	11	10	10	7	7	16	12	-
Iron (mg/L)	Result Maximum	0.44	1.9	0.498	1.68	0.889	1.88	0.21	0.021	0.741	_
_ead (ug/L)	Result	11.5	1.9	14.86	9.45	7.36	12.1	13.8	7.99	8.28	-
··· (//	Number of	14	2	14	13	15	11	7	16	19	1

Table 10-10 CSO Sampling Summary page 3 of 4

					page 3						
	Location	CSO 206	CSO 108 Wei	r CSO 110	CSO 117	CSO 125	CSO 127	CSO 140	CSO 151	CSO 152	CSO 153
	LOCCODE	C0000008	C0000013	C0000024	C0000025	C0000026	C0000027	C0000028	C0000029	C0000030	C0000031
	Sewershed Characteristics	Single Family Residential and Park Space	Mixed Use	Mixed Use	Mixed Use	Park Space	Commercial	Mixed Use	Single Family Residential	Single Family Residential	Mixed Use
	Tests										
·	Minimum Result	134.78	31.677	42.99	. 43.7	3.739	29.2	1	13.175	41.6	0.574
	Maximum Result	0.259	67.3	386	692.7	83.9	207.7	119	468.5	311.2	0.574
Massasium	Number of Tests	11	1	11	10	10	7	7	13	12	
Magnesium (mg/L)	Minimum Result Maximum	0.08 · · · · · · · · · · · · · · · · · · ·	2.07	1.7	1.95	2.02	1.96	6.52	1.657	2.927	_
	Result Number of	0.40	2.07	13.496	10.2	8.49	8.54	21.361	10.3	8.71	-
Mercury	Tests Minimum	14	2	14	13	15	11	7	16	19	1
(ug/L)	Result Maximum	0.2	0.2	0.08	0.08	0.08	0.2	0.08	0.08	0.08	1.015
	Result Number of	0.482	0.274	0.2	2.943	0.341	0.604	3.714	1.448	1.239	1.0115
Nickel	Tests Minimum	11	1	11	10	10	7	7	13	12	-
(mg/L)	Result Maximum	0.002	0.003	0.002	0.004	0.001	0.003	0.001	0.002	0.001	-
	Result Number of	0.02	0.003	0.017	0.03	0.011	0.018	0.025	0.013	0.014	-
Nitrate	Tests Minimum	9	1	10	7	9	6	6	13	11	-
(mg/L)	Result Maximum	0.3	0.59	0.42	0.27	0.53	0.5	0.53	0.4	0.41	-
	Result Number of	0.92	0.59	0.87	0.66	0.96	0.72	1.84	0.72	0.78	-
Nitrite (mg/L)	Tests Minimum Result	0.24	0.25	0.25	0.32	0.27	0 0	0.005	0.005	0.27	
(mg/L)	Maximum Result	0.25	0.38	0.44	0.38	0.36	0	0.005	0.46	0.47	-
Outle a	Number of Tests	7	1	8	8	10	6	8	13.	12	_
Ortho- Phosphate (mg/L)	Minimum Result	0.35	0.38	0.34	0.35	0.33	0.37	0.34	0.36	0.37	-
(mg/L)	Maximum Result	0.72	0.38	0.76	0.97	0.42	0.5	3.39	0.77	1.24	_
	Number of Tests	12	2	11	10	13	9	5	13	16	1
Organic N (mg/L)	Minimum Result	0.06	0.96	0.51	0.49	0.44	0.89	0.33	0.73	0	15.3
	Maximum Result	7	6	8	6.675	9.4	17	8.7	8	17	15.3
Total	Number of	3	1	<u>                                     </u>	10	10	11	<u> </u> 8	13	26	1

Table 10-10 CSO Sampling Summary page 4 of 4

					page 4 c	)1 * <del>1</del>				T	
	Location	CSO 206	CSO 108 Weir	CSO 110	CSO 117	CSO 125	CSO 127	CSO 140	CSO 151	CSO 152	CSO 153
	LOCCODE Sewershed Characteristics	C0000008 Single Family Residential and Park Space	C0000013 Mixed Use	C0000024  Mixed Use	C0000025 Mixed Use	C0000026 Park Space	C0000027  Commercial	C0000028 Mixed Use	C0000029 Single Family Residential	C0000030 Single Family Residential	C0000031 Mixed Use
	Tests										
Phosphorus (mg/L)	Minimum Result	0.3	0.3	0.403	0.375	0.31	0.4	0.092	0.663	0.002	0.84
(111912)	Maximum Result	0.7	0.3	2.78	3.34	1.48	4.32	5.01	2.87	4.51	0.84
	Number of Tests	14	2	14	13	15	11	8	16	19	1
Selenium (mg/L)	Minimum Result	.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.002	0.002
	Maximum Result	0.002174	1	1.731	2.827	1	1	1.37	9.418	1.991	0.002
Silver	Number of Tests Minimum	14	2	14	13	15	11	8	16	19	1
(mg/L)	Result Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.00582
	Result Number of	0.008	0.002	0.015	0.002	0.004	0.023	0.028	0.018	0.064	0.00582
	Tests Minimum	14	2	13	14	15	9	7	15	20	1
TSS (mg/L)	Result Maximum	19	107	65	52	28	48	1	30	19	623
	Result Number of	1540	443	366	596	538	586	291	374	402	623
	Tests Minimum	6	1	6	3	8	6	2	5	10	1
TKN (mg/L)	Result Maximum	1	7	5	1	1.7	1	3	1	1	19.5
	Result	10	7	11	5	11.5	20.2	9	10	21	19.5
	Number of Tests Minimum	10	2	10	14	14	10	7	14	23	2
TOC (mg/L)	Result Maximum	5.6	8	4	3.3	4.8	2	1.8	8.4	6.199	31.9
	Result Number of	40.6	34.3	27.7	36.6	40.8	63.1	13.8	31.7	57.2	50.9
TVSS	Tests Minimum	14	2	13	14	15	11	9	15	20	1
(mg/L)	Result Maximum	1	45	34	22	9	26	2	3	3	230
	Result	1390	321	250	304	403	340	312	186	174	230
	Number of Tests	11	1	10	10	10	7	7	13	12	-
Zinc (mg/L)	Minimum Result	0.037	0.127	0.085	0.086	0.028	0.079	0.008	0.032	0.052	-
	Maximum Result	0.504	0.127 LIMS database. Please	0.446	0.531	0.328	0.507	0.493	0.402	0.581	_

The source for all data presented in this table is MSD LIMS database. Please contact Patrick Fitzgerald for more information.

Table 10-11 CSO Pollutant Characterization Summary Page 1 of 1

						PAI	RAMETERS	5					
Location	Period	# of Sampled Events	# of Storm Events	FLOW	BOD	Nutrients	Solids	Metals	Fecal Coliform	TOC	Project	Purpose	Source (Contact)
<b>■ CSO 108</b> ■	1999 - 2003	TBD	TBD	X	?	?	X	?	X	?	Performance Evaluation	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2001 – 12/2001	3	7	4	4	4	4	4	4	4	CSO Characterization	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2004 – 6/2006	1	5	2	2	2	2	2	2	2	TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
CSO 110													
	1/2001 – 12/2001	5	7	17	17	17	17	17	17	17	Data to Development CSO Prioritization Model CSO Characterization	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
000447	1/2004 – 6/2006	5	5	15	15	15	15	15	15	15	TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
CSO117 CSO 125	1/2001 — 12/2001 1/2004 — 6/2006	5 4	7 5	13 10	13 10	13 10	13 10	13 10	13 10	13 10	Data to Development CSO Prioritization Model Data to Development TMDL	CSO Characterization CSO Characterization	MSD LIMS Database (Patrick Fitzgerald) MSD LIMS Database (Patrick Fitzgerald)
CSO 127	1/2001 — 12/2001	3	7	16	16	16	16	16	16	16	Data to Development CSO Prioritization Model	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2001 – 12/2001	6	7	13	13	13	13	13	13	13	Data to Development CSO Prioritization Model	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2004 – 6/2006	4	5	12	12	12	12	12	12	12	Data to Development TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
©SO 140	1/2001 — 12/2001 1/2005 — 6/2006	4	7 5	8 1	8 1	8	8 1	8 1	8 1	8 1	Data to Development CSO Prioritization Model Data to Development TMDL	CSO Characterization CSO Characterization	MSD LIMS Database (Patrick Fitzgerald) MSD LIMS Database (Patrick Fitzgerald)
-	1/2001 12/2001 1/2004 6/2006	6 5	7 5	17 16	17 16	17 16	17 16	17 16	17 16	17 16	Data to Development CSO Prioritization Model Data to Development TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald) MSD LIMS Database (Patrick Fitzgerald)
CSO 152	1/2001 — 12/2001	7	5	21	21	21	21	21	21	21	Data to Development CSO Prioritization Model	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2004 - 6/2006	4	5	17	17	17	17	17	17	17	Data to Development TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
CSO 153	1/2001 – 12/2001	3	7	3	3	3	3	3	3	3	Data to Development CSO Prioritization Model	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
CSO 206	1/2001 – 12/2001	6	7	15	15	15	15	15	15	15	Data to Development CSO Prioritization Model	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
CSO 209	1/2004 – 6/2006	5	5	15	15	15	15	15	15	15	Data to Development TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)
	1/2004 – 6/2006	3	4	11	11	11	11	11	11	11	Data to Development TMDL	CSO Characterization	MSD LIMS Database (Patrick Fitzgerald)

#### Table 10-12 In-Stream Sampling Programs Page 1 of 5

WATER BODY	LOCCODE	Period	# of Wet Weather Events	# Wet Weather Samples	# of Dry Weather Events	# Dry Weather Samples	Physical Parameters	Sediment	Biological	BOD	Nutrients	Solids	Metals	Fecal Coliform	TOC	Type of Site	Purpose	Source (Contact)
									4									
Muddy Fork																		
Mockingbird	ENGINALIO 04																	
Valley	EMUMU001	1991 - Present	NA	NA	NA	NA	Yes	0 -	Biennial	Yes	Yes	Yes	Yes	Yes		Long-Term Monitoring Network	Water Quality Data Collection	MSD LIMS Database (Patrick Fitzgerald)
		1/2004 – 5/2004	4	19	0	0	26	0	0	26	26	26	26	26	26	TMDL	Characterizati on of CSO impacts	MSD LIMS Database (Patrick Fitzgerald)
Westport Rd (1)	EMUMU006																	
	LIMONIOSCO	5/2006 - Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	Characterizati on of CSO impacts	MSD LIMS Database (Patrick Fitzgerald)
Westport Rd		11030111				<del>_</del>	,	, , , , , , , , , , , , , , , , , , ,		•		<u> </u>	<del>  '</del>	<del>'</del>	1	1,7110	pacto	, negorara)
(1)	EMUMU007																	
Indian Hills		5/2006 - Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	Characterizati on of CSO impacts	MSD LIMS Database (Patrick Fitzgerald)
Trail	EMUMU005				0					-								
		5/2006 - Present	1	7		0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	MSD LIMS Database (Patrick Fitzgerald)
Edith Road	EMUMU008				0												' '	MSD LIMS
Old Cannons		5/2006 - Present	11	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Database (Patrick Fitzgerald)
<u>Ln</u>	EMIMI002																	MODILING
		1991 - Present	NA	NA	NA	NA	Yes			Yes	Yes	Yes	Yes	Yes		Long-Term Monitoring Network	Water Quality Data Collection	MSD LIMS Database (Patrick Fitzgerald)
		1/2001 – 12/2001	9	21	2	6	27	0	0	27	27	. 27	27	27	27		Characterizati on of CSO impacts	MSD LIMS Database (Patrick Fitzgerald)
		1/2004 – Present	5	26	0	0	26	0	0	26	26	26	26	26	26	TMDL	TMDL	MSD LIMS Database (Patrick

Table 10-12 In-Stream Sampling Programs Page 2 of 5

Control of the Contro	I was not the second of the se	I S. Santone and Construct Construction	Locustra (Control	Language of the second	le succession		1		Page 2 of 5	los se se se					To a second second			
WATER BODY		* 10 N 10 T	# of Wet	# Wet	# of Dry	# Day Washing	Dhysical							Fecal				
	LOCCODE	Period	Weather Events	Weather Samples	Weather Events	# Dry Weather Samples	Physical Parameters	Sadiment	Biological	BOD	Nutrients	Solids	Metals	Coliform	TOC	Type of Site	Purpose	Source (Contact)
	LOCCODE	FELIOU	Eventa	odilibies	Lychta	Camples	a and the lead	Cediment	Diological		E TUBICITO	Condo	iviotaio:	COMOTTI	,,,,,,	17000000	1 41 1900	
																		Fitzgerald)
Middle Fork																		
														WHILE COLUMN TO STATE OF STATE				CONTRACTOR OF THE PROPERTY OF
Lexington Road	EMIMI010																	r .
rtoud	Livinoro																	MSD LIMS
																Long-Term	Water Quality	Database
		1991 -														Monitoring	Data	(Patrick
		Present	NA	NA	NA	NA	Yes	0	Biennial	Yes	Yes	Yes	Yes	Yes		Network	Collection	Fitzgerald) MSD LIMS
																		MSD LIMS
												,					Characterizati	Database
		1/2001 -	_					_		0.7	0.7	07	07	0.7	07		on of CSO	(Patrick
		12/2001	9	21	2	6	27	0	0	27	27	27	27	27	27		impacts	Fitzgerald) MSD LIMS
																		Database
	]	1/2004 —			1													(Patrick
			5	26	0	О	26	0	0	26	26	26	26	26	26		TMDL	Fitzgerald)
Drawno Lone		Present	<u> </u>	20	<u> </u>	<u> </u>	20	- ·	<u> </u>	20	20	20		-20	<u> </u>		111100	· negorara/
Browns Lane																		MSD LIMS
									1							Long-Term	Water Quality	Database
		1991 -														Monitoring	Data	(Patrick
		Present	NA	NA	NA	NA	Yes	0	0	Yes	Yes	Yes	Yes	Yes		Network	Collection	Fitzgerald)
Beals Branch																		
(2)	EMIMI006																	
																		MSD LIMS
												i						Database
		5/2006 -					_		_		_		_	***	_	TAIDI	TMD	(Patrick
		Present	1	19	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
Culvert at																		
Whetstone	ENUA 4 0 0 4																	
Way	EMIAA001													·				MSD LIMS
		1																Database
		5/2006 -																(Patrick
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
MF at		11000																
Bowling Blvd	EMISF001																	
																		MSD LIMS
																		Database
		5/2006 -							-		_	_		_	_		71.45	(Patrick
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
MF at																***************************************		
Breckinridge																		
Ln	EMIMI005																	MSD LIMS
																		Database
		E/2006																(Patrick
		5/2006 - Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
ME at	EMIMI008	LIESCIIL	1		- 0	0	1		<u> </u>	<del>  '</del>	1	<u>'</u>			'	114177	1 1 7 1 Lu? Lus	,50,0.0/
MF at	_ □VIIIVII UUO	<u> </u>	_L	<u> </u>	1	İ.		<u></u>	<u> </u>	1	<u>I</u>	<u> </u>	<u>.                                    </u>		<u> </u>	<u> </u>	<u> </u>	

Table 10-12 In-Stream Sampling Programs Page 3 of 5

					Tourist the second	Landon James of Control of Control			Page 3 of 5						4			
WATER BODY			# of Wet	#Wet	# of Dry													
			Weather	Weather	Weather	# Dry Weather	Physical	7.7						Fecal				
	LOCCODE	Period	Events	Samples	Events	Samples	Parameters	Sediment	Biological	BOD	Nutrients	Solids	Metals	Coliform	TOC	Type of Site	Purpose	Source (Contact)
																		•
Seneca Loop																		
Bridge #1																		
Bridge // 1																		MSD LIMS
																		Database
		5/2006 -																(Patrick
			1	7	0	0	7	۸ .	0	7	7	7	7	7	7	TMD	TMDI	
		Present	<u> </u>	1	U	U U	1	0	V	- /	1	1	1	/	1	TMDL	TMDL	Fitzgerald)
MF at																		
Klempner																		
Brothers	EMIMI012				<u> </u>													
																		MSD LIMS
																		Database
		5/2006 -																(Patrick
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
South Fork																		
Liberty St	ESFSF021																	
															****	1		MSD LIMS
***************************************																		Database
		1/2004 –			-													(Patrick
		Present	4	19	0	О	26	0	0	26	26	26	26	26	26	TMDL	TMDL	
		Present	4	19	0	U	20	U	U	20		20	20	20	20	LIMIDE	IMDE	Fitzgerald)
Trevillian	FOFOFOOA																	
Way	ESFSF001																	
																		MSD LIMS
			Ì										İ			Long-Term	Water Quality	Database
		1991 -														Monitoring	Data	(Patrick
		Present	NA	NA	NA	NA	Yes	0	Biennial	Yes	Yes	Yes	Yes	Yes		Network	Collection	Fitzgerald)
																		MSD LIMS
																		Database
																	Performance	(Patrick
		1999 - 2000	TBD	TBD	0	0	TBD	0	о	TBD	TBD	TBD	TBD	TBD			Verification	Fitzgerald)
		1000 2000												122			TOTHIOGOTT	MSD LIMS
																	Characterizati	Database
		1/2001 –		1													on of CSO	(Patrick
		12/2001	9	21	2	6	27	0	0	27	27	27	27	27	27			
		12/2001	9	<del>                                     </del>	<del></del>	<u> </u>		υ	U		<u> </u>		41	21	<u> </u>		impacts	Fitzgerald)
																		MSD LIMS
		4/0004																Database
		1/2004 —		00		•	00			20						71.471		(Patrick
		Present	5	26	0	0	26	0	0	26	26	26	26	26	26	TMDL	TMDL	Fitzgerald)
			<u> </u>	-														
Brownsboro							]											
Road PS	ESFSF006																	
																		MSD LIMS
																Long-Term	Water Quality	Database
		1991 -		1												Monitoring	Data	(Patrick
		Present	NA	NA	NA	NA	Yes	0	Biennial	Yes	Yes	Yes	Yes	Yes		Network	Collection	Fitzgerald)
		1,1000111	101	14/1	14/1	14/1	, 00	<u> </u>	Diominal	100	100	100	1.03	100		HOLVOIR	Concollori	MSD LIMS
																	Characterizati	Database
		1/0004																
		1/2001 -				0	0.7	•		07	07	07		0-	~-	1	on of CSO	(Patrick
		12/2001	9	21	2	6	27	0	0	27	27	27	27	27	27		impacts	Fitzgerald)

Table 10-12 In-Stream Sampling Programs Page 4 of 5

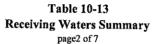
			l and an arrange				I the sill resident the same and		Page 4 of 5	Line		s higningajinekskushogajobr	c.	or Lands and Solven II while design in the	- Indiana de la companya de la companya de la companya de la companya de la companya de la companya de la comp	And a common with the Common C	1	
WATER BODY			# of Wet Weather	# Wet Weather	# of Dry Weather	# Dry Weather	Physical							Food				
	LOCCODE	Period	Events	Samples	Events	Samples	Parameters	Sediment	Biological	BOD	Nutrients	Solids	Metals	Fecal Coliform	TOC	Type of Site	Purpose	Source (Contact)
	LOGGODE	1,01404	I TOTAL	- Sag-Cumpion	, see Living	campios			- Diblogicals		Houseston	CONGO	WICKING	Comornia	100	Siessi ype of Citesia	i uiposa	Course (contact)
																		MSD LIMS
															Ì			Database
		1/2004 -																(Patrick
		Present	5	26	0	0	26	0	0	26	26	26	26	26	26	TMDL	TMDL	Fitzgerald)
Schiller Ave																		<del></del>
Ramp	ESFSF002																	
																		MSD LIMS
																Long-Term	Water Quality	Database
		1991 -														Monitoring	Data	(Patrick
		Present	NA	NA	NA	NA	Yes	0	Biennial	Yes	Yes	Yes	Yes	Yes		Network	Collection	Fitzgerald)
																		MSD LIMS
		4/0004									•						Characterizati	Database
		1/2001 -		40			0.4			0.4	0.4	0.4					on of CSO	(Patrick
		12/2001	8	18	2	6	24	0	0	24	24	24	24	24	24		impacts	Fitzgerald)
																		MSD LIMS
		1/2004 –																Database (Patrick
		Present	5	26	0	0	26	0	0	26	26	26	26	26	26	TMDL	TMDL	Fitzgerald)
Taylorsville		1163611	· · · · · ·	20	0		20	0	<u> </u>	20	20		20	20	20	TIVIDE	1 IVIDE	ritzgeratu)
Rd &																		
Hurstbourne				}														
Pkwy	ESFSF024																	
, , , , , ,																		MSD LIMS
																		Database
		5/2006 -					!											(Patrick
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
Goldsmith Ln	ESFSF025																	
																		MSD LIMS
																		Database
		5/2006 -		_	_	_												(Patrick
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Fitzgerald)
Bashford							ļ											
Manor Ln	ESFSF020																	MODILINA
																		MSD LIMS
		5/2006 -																Database (Patrick
		Present	1	7	0	О	7	0	0	7	7	7	7	7	7	TMDL	TMDL	(Patrick Fitzgerald)
2001		1 1636Ht	1			, , , , , , , , , , , , , , , , , , ,	1	<u> </u>	<u> </u>	,	ſ	- 1	1			INDL		i itzgeratu)
Newburg Rd	ESFSF026																	
.10112319114																		MSD LIMS
																		Database
																	Performance	(Patrick
		1999 - 2000	TBD	TBD	0	0	TBD	0	0	TBD	TBD	TBD	TBD	TBD			Verification	Fitzgerald)
		5/2006 -																<u> </u>
		Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	
Eastern Pkwy	ESFSF027																	
		1/2004 –											·					MSD LIMS
		Present		7		0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	Database

Table 10-12
In-Stream Sampling Programs
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									Page 5 of 5									
WATER BODY	LOCCODE	Period	# of Wet Weather Events	# Wet Weather Samples	# of Dry Weather Events	# Dry Weather Samples	Physical Parameters	Sediment	Biological	BOD	Nutrients	Solids	Metals	Fecal Coliform	TOC	Type of Site	Purpose	Source (Contact)
																		(Patrick Fitzgerald)
E. Breckinridge St	ESFSF012																	
		5/2006 - Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	MSD LIMS Database (Patrick Fitzgerald)
Beargrass Creek at River Rd and Frankfort Ave	ESFSF014																	
Transcrive	20, 0.0	5/2006 - Present	1	7	0	0	7	0	0	7	7	7	7	7	7	TMDL	TMDL	MSD LIMS Database (Patrick Fitzgerald)
Willow Pond						-				•						2_		
Cross- sections of pond	NA	2003	1	TBD	1	TBD	The second secon	Yes	0	Accessory and the Control of the Con				America (Sec. 1979) in the Party Sec. 1979	State of the state		ga began a segunda amerikan periode a filologia ga ga ga ga ga ga ga ga ga ga ga ga ga	MSD LIMS Database (Patrick Fitzgerald)

Table 10-13
Receiving Waters Summary
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WWW.WW.WW.WW.WW.	ANY SERVICE PROGRAM SERVICE SE		page1 of 7			
LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
ECBCB001	Cedar Creek @ SR 1442	E of Shepherdsville	USR of Bridge	104	7/29/2003	9/11/2006
ECCCC001	Cedar CK @ Thixton RD	DSM of bridge	5 FT DS of bridge	205	5/2/2000	9/11/2006
ECCCC003	Cedar Creek@ CCWTP -1	7509 Cedar Hollow Drive	100 feet above effluent	1	7/5/2001	7/5/2001
ECCCC004	Cedar Creek@ CCWTP -2	7509 Cedar Hollow Drive	100' below TP effluent	1	7/5/2001	7/5/2001
ECCCC005	Cedar Creek@ Independence S R	9221 Independence School RD		1	7/5/2001	7/5/2001
ECCZZ001	8811 Mt Gerald CT	culvert W of Driveway	2 FT S of MT Gerald CT	6	10/10/2002	9/27/2003
EFFCR001	CHEN Run #1 @ Gelhaus LN	DSL of bridge		206	5/3/2000	9/11/2006
EFFCR002	CHEN Run #1 @ Ruckriegel PKWY	DSR of bridge	2 FT DS of bridge	221	5/3/2000	9/11/2006
EFFCR004	Chen Run #1 @ JTWTP	10725 Taylorsville RD	DS of plant outfall	3	5/3/2000	5/25/2000
EFFCR005	Chen Run #1 @ Chenoweth Run RD	next tp property at 3806	·	46	5/3/2000	8/18/2006
EFFCR006	Chen Run #1 @ Jtown WWTP(2)	10725 Taylorsville Rd.	upstream from plant	2	5/18/2000	5/25/2000
EFFCR008	Chen Run #1@SPS146 Element LN	•		1	5/3/2000	5/3/2000
EFFCR009	CHEN Run #1 Upstream Sediment			1	5/11/2000	5/11/2000
EFFCR010	CHEN Run #1 Dnstream Sediment			1	5/11/2000	5/11/2000
EFFFF001	Floyd's FK @ Ash. AVE	(KY ST HWY 362) (Oldham Co.)		204	5/3/2000	9/8/2006
EFFFF002	Floyd's FK @ Bardstown RD	DSM side of DS bridge	sample same or grabs 10 FT DS	178	5/1/2001	9/11/2006
EFFFF003	Floyds FK@ Old Taylorsville RD	Fisherville	in front of 150302, sample same	205	5/3/2000	9/11/2006
EFFZZ001	1308 Crosstimbers DR	grass swale S of property	20 FT from SW corner of house	2	7/21/2003	7/21/2003
EFFZZ002	14017 Echo Hill Trail	DT in front of property	5 FT NE of Echo Hill Trail	2	10/4/2002	10/4/2002
EGCGC001	Goose CK @ Old Westport RD	DSL of bridge	sample same or 10 FT DS	203	5/3/2000	9/8/2006
EGCGC002	Goose CK @ US HWY 42	opposite Falls Creek entrance	30 FT DSL of bridge	212	5/3/2000	9/8/2006
EGCGC003	Goose CK @ Valley View RD	off Private DR	.5 miles E of Osage CIR	52	4/3/2000	2/44/0000
EGCGC004	Goose CK @ Magnolia LN	off Private DR		52 52	4/3/2000	3/11/2002
EGCLG001	Little Goose CK @ US H'way 42	NR Harrod's Creek	30 FT DSL side of bridge	204	5/3/2000 5/3/2000	3/11/2002
	-			204	3/3/2000	9/8/2006
EGCLG002	Little Goose CK @ Barbour LN	100 FT DSR of bridge	surface	2	8/26/2000	8/27/2000



SPORTURE CHARLES AND LANGUAGE PROMISE	COMMITTEE PRODUCTION AND ADDRESS AND ADDRE		page2 of 7			
LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE :	MaxOfCOLDATE
EGCZZ001	8100 Westport RD	DT in front of Westport	Headwall as pipe crosses	4	7/9/2003	9/27/2003
		School.	West entrance			0,000
EHCAA001	Harrods Crk Trib @ Fox Harbor	Pull off 300 feet past	Downstream of large	1	8/25/2005	8/25/2005
		subdiv entrance	deadfall in stream			J J. Z. J. J. J. J. J. J. J. J. J. J. J. J. J.
EHCAB001	Harrods Creek Trib @ Marina	North end of Marina	Where trib crosses under	1	8/25/2005	8/25/2005
		Village	entrance drive			0,20,200
EHCHC001	Harrod's CK @Covered Bridge RD	HWY 329, Oldham County	Downstream side of	211	5/3/2000	9/8/2006
m			bridge			0.0.2000
EHCHC002	Harrod's CK @ UK HWY 42	Downstream side of bridge	•	1	8/25/2005	8/25/2005
EUGUGGG.						***********
EHCHC004	Harrods Creek @ River Road	Sample from downstream	Sample the middle of the	4	8/25/2005	8/25/2005
		side of bridge	stream			
FUOLICAGE	11					
EHCHC005	Harrods Crk Trib US Timberlake	Sample from bank of	400 ft upstream of	1	8/25/2005	8/25/2005
ELICHOOOC	Hamada O L HO H. K. OL O TD	creek	Timberlake TP			
EHCHC006	Harrods Crk US Hunting Ck S TP	Upstream of plant outfall	Sample from creek bank	1	8/25/2005	8/25/2005
EHCHI001	Litto CIC DO -4 METD Esta					
EHCHI002	Hite CK DS of WTP Effluent	5512 Hitt Lane	DS of plant outfall	2	5/24/2000	7/29/2006
EHCHI002	Hite CK US of WTP Effluent	5512 Hite Lane	US of Plants outfall	2	5/24/2000	7/29/2006
EHCHIOOS	Hite Creek @ Sleepy Hollow Rd	Sample US side of private		1	8/25/2005	8/25/2005
EHCSF001	S Fork Howards Ok 110 114 - Ok	drive bridge	So Fork Harrods			
LINCOPOUT	S Fork Harrods Ck US Hite Ck	DS Sleepy Hollow Dam	100 ft US confluence with	1	8/25/2005	8/25/2005
EHCWP001	Wolf Pen Branch @ 8111 WPB	OFC FT DO 6	Hite Creek			
L110441 001	RD1	256 FT DS from driveway	78' DS of confluence w	2	7/13/2001	7/20/2005
EHCWP002	Wolf Pen Branch @ 8200 WPB	bridge	UT			
Eliotti ooz	RD2	across street	50 FT NE of driveway	85	7/13/2001	9/8/2006
EHCWP003	Wolf Pen Branch @ 8221 WPB Rd	Campia Daumatus aus Cid-	Detects Dat			
	World Chibranet @ 0221 WFB Nd	of Bridge	Private Drive	1	8/25/2005	8/25/2005
EHCZZ001	4004 Collins LN	DT on NE corner of	OFT No.CD			
,,	100 F Coming EIA	property	2 FT N of Driveway	3	7/21/2003	7/21/2003
EINFR001	Falling Run @ NAWTP	by West 10th ST	surface			
EINLC001	Lancassange CK @ Utica Pike	by West Tour ST		28	8/8/2000	8/13/2000
EINLZ001	Lentzier CK @ Utica Pike		surface	11	8/8/2000	8/10/2000
EINMJ001	Mill Creek,IN @ Frontage RD		surface	7	8/8/2000	8/10/2000
EINSZ001	Silver CK @ State Route 62	Indiana	surface	18	8/8/2000	8/12/2000
EMCBI001	BR Div @ St Andrews Church RD		surface	27	8/8/2000	8/13/2000
	= Sit & Straidlews Official RD	west of Gaymont Drive		116	5/8/2000	4/25/2005
EMCMC001	Mill CK @ Orell RD	USR side of bridge	U2O complete E ET LIG. 1	<b>_</b>		
		oon side of bridge	H2O samples 5 FT US of	296	4/26/2000	9/6/2006
			bridge			

Table 10-13
Receiving Waters Summary
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	LOCCODE	DESCR	Locations	P-B CI.			
	EMCMC003		LOCDESCR2		Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
	EMCMC003	Mill CK @ Greenwood RD		20 ft. upstream of bridge	120	4/26/2000	4/25/2005
	EMCMC006	Mill Ck.@Pinetree WTP #273(1)	6208 Jeffrey Drive	30' upstream of outfall	56	5/8/2000	4/26/2005
	EMCMX001	Mill CK @ Pinetree WTP #273	6208 Jeffrey Drive	40' DS of outfall	56	5/8/2000	4/26/2005
	EMCMYOUL	MX @ Old Cane Run RD	USL side of bridge	H2O samples 10 FT US	264	4/26/2000	9/6/2006
	EMCST001	Ctanhan Ditak O Islanda Bu		of bridge			
	EMC21001	Stephan Ditch @ Johnsontown Rd	East of Thompson Rd.		21	5/24/2000	4/25/2005
	EMCVCOOA	V-II- 0: 0 1:					
	EMCVC001	Valley Ck @ Johnsontown Rd	East of Mapleview Drive		32	5/22/2000	4/25/2005
	EMCZZ001	7609 St Andrews Church RD	swale N of Trunell FAM	S of RD NE of driveway	7	10/4/2002	8/30/2003
٠	EN077000	F040.14	RES CEN				
	EMCZZ002	5310 Mercury DR	swale BTWN greenhouse	70 ft West of Greehouse	5	7/15/2003	7/15/2003
	E11077000	8448 W 11	& track				71.4
	EMCZZ003	6419 Bethany LN	DT on N side of Bethany	60 FT from SW corner of	7	10/4/2002	7/21/2003
			LN	FD			772172000
	EMIMI002	MIFBGC @ Old Cannons LN	100 yards S of I-64	downstream of bridge	324	5/3/2000	9/7/2006
			overpass	~		01012000	SITIZOOO
	EMIMI003	MIFBGC @ Owl CK LN			8	4/3/2000	9/10/2001
	EMIMI004	MIFBGC @ Lexington RD 1	@ X of Ledge RD & LEX	DSL of culvert, DS CSO	70	1/10/2001	1/28/2002
			RD	166	70	1/10/2001	1/20/2002
	EMIMI005	MIFBGC @ 964 Breckinridge Lin			1	8/23/2002	9/93/0000
	EMIMI006	MIFBGC @ Beals Branch Road	X of Scenic Loop BBR	20 FT US of bridge #3	49	3/3/2004	8/23/2002
	EMIMI009	MIFBGC @ Browns LN	USL of bridge at Brown	DS of Mallard Crossing	106		5/15/2004
		_	Park	Apts	100	11/8/2001	9/7/2006
	EMIMI010	MIFBGC @ Lexington RD 2	Upstream of CSO 82	downstream of bridge	135	0/0/0004	6 (-1
	EMMI011	MIFBGC @ Old Cannons LN 2	101 yards S of I-64	DSM of bridge		3/3/2004	9/7/2006
		<b>3</b> • • • • • • • • • • • • • • • • • • •	overpass	DOM of Bridge	330	4/10/2003	4/14/2004
	EMIMI013	MIFBGC @ CSO 209 Outfall Pipe	Sample stream at mouth	400 ft us of bridge #1	•		
			of pipe	400 it us of bridge #1	3	4/15/2005	5/6/2005
	EMIZZ001	10416 Lakeshohore Bluff	concrete DT 10 FT from	v of DT 0 DT			
		The Landon Strong Little	ST end	x of DT & DT	38	6/3/2003	3/3/2004
	EMIZZ002	4550 Bowling BLVD		:- DV			
		1000 BOWING BEVB	50 FT W of Bowling BLVD	IN PK	32	6/3/2003	2/5/2004
	EMIZZ003	312 Whittington PKWY	DT 20 ET C of monthing land	CO CT W.C			
		orz windington i (tw)	DT 20 FT S of parking log	50 FT W from headwall	35	10/4/2002	2/5/2004
	EMIZZ004	James F Crosby PK	average of Oct. 1.1. a				
	_IVII	Janies i Closby FK	swale at Cedardale &	20 FT S of Cadar 300 ft E	34	6/3/2003	3/3/2004
	EMIZZ005	DTWN 900 9 944 FEMILEN AVE	Bellwood	of X			
	L111122000	BTWN 809 & 811 FENLEY AVE REAR	100 FT E of hydrant		27	11/23/2003	3/3/2004
	EMIZZ006		<b>5</b> 45 <b>5</b> 45				
	LIVIIZZUUD	1990 DIOMUS LIM	DT 10 FT W of Browns LN		2	9/22/2003	9/22/2003
				Sherburn LN			

Table 10-13
Receiving Waters Summary
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DASTITUDING CONTRACTOR CONTRACTOR	HORDANIA SANAMINEN NOOTE INVESTIGATION OF THE SANAMINE SA		page4 of /			
LOCCODE!	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
EMUAB001	UT of MUFBGC @ Blankenbaker			104	5/1/2000	5/2/2005
	LN					
EMUEP001	EPB of MUFBGC @ Melwood Ave	Middle of Edwards Pond	250' ds of Mellwood &	1	7/28/2003	7/28/2003
		Branch	CSO 154			
EMUMU001	MUFBGC @ Mockingbird Val RD			164	4/3/2000	9/7/2006
EMUMU002	MUFBGC @ MUF SPS	W side of Indian Hills Trail		119	4/3/2000	5/2/2005
EMUMU003	MUFBGC @ Country Club RD			83	4/3/2000	11/18/2003
EMUMU004	MUFBGC @ Hubbards LN	DSM of Bridge	middle of channel	123	4/3/2000	5/2/2005
EMUMU005	MUFBGC @ Indian Hills TRL	Downstream of Bridge	sample from middle of	51	7/31/2003	5/2/2005
C11177004			channel			
EMUZZ001	749 N Hite AVE	DT SE of apartment BLDG		33	4/17/2002	7/9/2004
F-111577000		700	BLDG			
EMUZZ002	200 FT SW of 3720 Canoe Lane	5 FT SE of Canoe LN in		31	11/24/2003	3/3/2004
EM 177004		DTCH				
EMUZZ004	Louisville Country Club	200 yards W of CNTRY	Drainage DTCH to Pond	15	2/5/2004	3/3/2004
E0000004	011 014 0 011 014 0 1	Club				
EOCOC001	Otter CK @ Otter CK Park	(Blue Hole) (Meade Co.)		203	5/2/2000	9/6/2006
EOROC001	River Mile 607 L	left bank	surface	4	8/9/2000	8/11/2000
EOROC002	River Mile 608 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC003	River Mile 608 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC004	River Mile 608 R	Right Bank	surface	3	8/9/2000	8/11/2000
EOROC005	River Mile 610 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC006	River Mile 610 M	midstream	surface	5	8/9/2000	8/13/2000
EOROC007	River Mile 610 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC008	River Mile 612 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC009	River Mile 612 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC010	River Mile 612 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC011	River Mile 614 L	left bank		3	8/9/2000	8/11/2000
EOROC012	River Mile 614 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC013	River Mile 614 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC014	River Mile 615 M	midstream	surface	2	8/12/2000	8/13/2000
EOROC015	River Mile 616 L	left bank	surface	6	8/9/2000	8/11/2000
EOROC016	River Mile 616 M	midstream	surface	6	8/9/2000	8/11/2000
EOROC017	River Mile 616 R	right bank	surface	6	8/9/2000	8/11/2000
EOROC018	River Mile 618 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC019	River Mile 618 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC020	River Mile 618 R	Right Bank	surface	3	8/9/2000	8/11/2000
EOROC022	River Mile 620 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC023	River Mile 620 M	midstream	surface	5	8/9/2000	8/13/2000
					,	

Table 10-13
Receiving Waters Summary
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LOCCODE	DECCE.		pages or /	3		
**************************************	DESCR	LOCDESCR2	SAMPLOC	Number of Samples		VaxOfCOLDATE
EOROC024	River Mile 620 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC025	River Mile 622 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC026	River Mile 622 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC027	River Mile 622 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC028	River Mile 624 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC029	River Mile 624 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC030	River Mile 624 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC031	River Mile 625 M	midstream	surface	2	8/12/2000	8/13/2000
EOROC032	River Mile 626 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC033	River Mile 626 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC034	River Mile 626 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC035	River Mile 628 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC036	River Mile 628 M	midstream	surface	3	8/9/2000	8/11/2000
EOROC037	River Mile 628 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC038	River Mile 630 L	left bank	surface	3	8/9/2000	8/11/2000
EOROC039	River Mile 630 M	midstream	surface	5	8/9/2000	8/13/2000
EOROC040	River Mile 630 R	right bank	surface	3	8/9/2000	8/11/2000
EOROC041	River Mile 635 M	midstream	surface	4	8/12/2000	8/13/2000
EOROC042	River Mile 640 M	midstream	surface	2	8/12/2000	8/13/2000
EOROC043	River Mile 646 M	midstream	surface	2	8/12/2000	8/13/2000
EOROC044	River Mile 651 M	midstream	surface	2	8/12/2000	8/13/2000
EOROC045	River Mile 655 M	midstream	surface	1	8/13/2000	8/13/2000
EOROC046	River Mile 660 M	midstream	surface	5	8/12/2000	8/13/2000
EOROC047	River Mile 586	midstream	surface	2	8/9/2000	8/10/2000
EOROC048	River Mile 632	midstream	surface	8	8/9/2000	8/11/2000
EOROC049	River Mile 608.7 RS	Jaycee's Boat Ramp (IN)	surface, right shore grab	29	5/2/2002	10/24/2002
EOROC050	River Mile 619.3 RS	Greenwood RD Boat	surface, left shore grab	29	5/2/2002	10/24/2002
		Ramp		<del></del>	0,2,2002	10/2-1/2002
EOROM001	River Mile 588 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM002	River Mile 588 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM003	River Mile 588 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM004	River Mile 590 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM005	River Mile 590 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM006	River Mile 590 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM007	River Mile 592 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM008	River Mile 592 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM009	River Mile 592 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM010	River Mile 594 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM011	River Mile 594 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM013	River Mile 596 L	left bank	surface	3	8/9/2000	8/11/2000
				3	0/3/2000	0/11/2000

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LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
EOROM014	River Mile 596 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM015	River Mile 596 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM016	River Mile 598 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM017	River Mile 598 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM018	River Mile 598 R	right bank		3	8/9/2000	8/11/2000
EOROM019	River Mile 600 L	left bank	surface	3	8/9/2000	8/11/2000
EOROM020	River Mile 600 M	midstream	surface	3	8/9/2000	8/11/2000
EOROM021	River Mile 600 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM022	River Mile 602 L	left bank		3	8/9/2000	8/11/2000
EOROM023	River Mile 602 M	midstream		3	8/9/2000	8/11/2000
EOROM024	River Mile 602 R	right bank	surface	3	8/9/2000	8/11/2000
EOROM025	River Mile 604 L	left bank	surface	6	8/9/2000	8/11/2000
EOROM026	River Mile 604 M	midstream	surface	6	8/9/2000	8/11/2000
EOROM027	River Mile 604 R	right bank	surface	6	8/9/2000	8/11/2000
EOROM028	River Mile 605 L	left bank	surface	9	8/9/2000	8/11/2000
EOROM029	River Mile 594.0 R	right bank	surface	32	8/9/2000	10/24/2002
EPCAA001	UT of Greasy DT@ Grade LN	1.1 mi S of Preston,	@ base of headwall	4	1/4/2001	1/11/2001
EPCBC001	Brier CK.@ Bear Camp RD	pool at DSR side of bridge	sample in pool (Bullitt	204	5/2/2000	9/6/2006
		_	Co.)		0,2,2000	5/6/2000
EPCDK001	Duck Spring @ Fern Valley RD	.5 MI W of INT with Grade	S of Rd,at base of	5	1/4/2001	1/11/2001
		LN	headwall	v	17-172-001	171172001
EPCFC001	Fern CK @ Old Bardstown RD	USL side of bridge	15 FT US of bridge	203	5/3/2000	9/11/2006
EPCND001	Nortern DT@ Preston HWY	135 FT US of bridge	sample same	204	5/2/2000	9/6/2006
EPCPC001	Pond CK@ Manslick RD	DSM of bridge	·	205	5/2/2000	9/6/2006
EPCPC002	Pond CK @ Pendleton RD	DSL side of bridge	H2O samples FR DS side	205	5/2/2000	9/6/2006
		_	of bridge	200	0/2/2000	3/0/2000
EPCSY001	Strawberry Yards @ Fern VAL RD	next to Ferrel Gas	S of RD DS of the	7	1/2/2001	1/11/2001
		driveway	concrete step	•	1/2/2001	1/11/2001
EPCZZ001	7606 Parkridge Trace	curb Drain SE side of	30 FT from SW side of	14	10/4/2002	9/27/2003
		property	DRWY	• • •	101-172002	312112003
EPCZZ002	4417 South Ridge DR	DT on NE side of property	10 FT from NW corner of	8	10/4/2002	7/21/2003
			PROP	· ·	10/4/2002	112 112003
EPCZZ003	1321 Glengarry CT	natural drainage flow	25 FT from W wall of	9	10/4/2002	7/9/2003
			BLDG	Ü	10/4/2002	11912.003
EPCZZ004	4112 Outer Loop	DT between 4112 &		9	4/17/2002	9/27/2003
		parking lot		Ü	7/1//2002	812112003
EPCZZ005	8001 Ashbottom RD	DT on S side of	200 FT W of X with	11	10/10/2002	9/27/2003
		Ashbottom RD	Grade LN	* 1	10/10/2002	812112003
EPCZZ006	5114 Crittenden DR	DT on W side of	100 FT S of X with	9	10/10/2002	7/15/2003
		Crittenden DR	MacLean	J	10/10/2002	1110/2003

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Receiving Waters Summary
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LOCCODE	DESCR	LOCDESCR2	SAMPLOC	Number of Samples	MinOfCOLDATE	MaxOfCOLDATE
EPCZZ007	5800 Poplar Level RD	DT on S end of property	100 FT E of RR	15	10/10/2002	9/27/2003
EPCZZ008	9831 East AVE	pond 200FT NW of Layne		10	10/4/2002	9/27/2003
		ELEM	1 0		10/ 1/2002	0/2//2000
EPCZZ011	9031 Lakewood DR	DT on W side of	5FT NW from end of	9	10/4/2002	9/27/2003
		Lakewood DR	Lakewood			
EPRPR001	Penn Run @ Mt. Washington Rd			204	5/2/2000	9/11/2006
ESFBR001	Buechel Branch @ SFBGC	_FT US of X with SFBGC	by MH 30683-SM	1	8/23/2002	8/23/2002
ESFBR002	BR Beargrass by retention bash			1	5/31/2005	5/31/2005
ESFSF001	SFBGC @ Trevillian Way	sonde 100 feet ds of bridge	manual sample from us side of bridge	661	5/3/2000	9/7/2006
ESFSF002	SFBGC @ Schiller AV Ramp	sonde 50 feet downstream		306	5/3/2000	9/7/2006
	-	of ramp	bridge @ Winter Ave		0,0,200	3/1/2000
ESFSF006	SFBGC@ Brownsboro Road	Just upstream of MSD	Sample upstream side of	239	6/16/2000	8/31/2006
		BGC Pump Station	bridge		=	0,0.1,2000
ESFSF009	SFBGC NR Eastern PKWY	Beginning of concrete	-	3	11/8/2001	1/28/2002
		channel				
ESFSF017	SFBGC MH @ E Main ST	DSM of bridge		1	8/23/2002	8/23/2002
ESFSF018	SFBGC @ Swan ST	USM of bridge		4	8/23/2002	1/24/2003
ESFSF021	SFBGC @ Liberty Street	150 feet SE of X Liberty &	DSM of bridge	49	3/3/2004	5/15/2004
ESFSF029	Poorgroup Cd. @ Olds-utt 8 Dt.d.	Baxter				
ESFSF029	Beargrass Crk @ Gldsmth & Pbdy			1	5/30/2005	5/30/2005
ESFSF030	SF Beargrass by retention bsn			,	E 104 1000E	F/04/000F
ESFSF031	SF Beargrass Ck at Buechel Br			1	5/31/2005	5/31/2005
ESFSF033	SF Beargrass DS Buechel Br.			1	5/31/2005 5/31/2005	5/31/2005
ESFSF034	SF Beargrass S @ Goldsmith			1	5/31/2005	5/31/2005
ESFSF035	SF Beargrass N @ Goldsmith			i 1	5/31/2005	5/31/2005
ESFZZ001	1925 Hikes LN	DT on N side of Hikes LN	3 FT SW of driveway	37		5/31/2005
		2 . 3	OT TOW OF GIVEWAY	31	7/9/2003	3/10/2004
ESFZZ002	9420 Bunsen PKWY	DET basin 100 FT behind	X of concrete culverts	40	4/17/2002	3/3/2004
		BLDG				7.7.200
ESFZZ003	2001 Newburg RD	DT in front of Bellamine	20 FT E of Newburg RD	20	10/10/2002	1/23/2004
ECE 77004	0.404 1111 1 4 7 7	UNIV				
ESFZZ004	3421 Illinois AVE	DT on W side of Illinois	5 FT S of headwall	16	2/21/2003	11/18/2003
ESVSV001	Salt Divor @W Daint Dant Da	AVE				
EWCWC001	Salt River @W Point Boat Ramp	midstream	<b>—</b> — —	5	8/9/2000	8/13/2000
EVACAACOOL	Wilson CK @ Harrison Fork RD	Bernheim Forrest NR	Bullitt/Nelson COs	59	5/2/2000	10/26/2001
		Deatsville				

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CSO Eliminated
page 1 of 1

CSO No.	Change description	Year	Cost	Comment
CSO 49	The sewer system tributary to CSO 049 was separated through redevelopment in the area and the CSO was permanently closed.	1999	N/A	This project resulted in negligible decrease of volume.
CSO 65	After monitoring the inactivity of CSO 065, the dam was removed and the overflow discharge pipe was plugged.	1996	N/A	
CSO 80	Initial sewer separation efforts were part of the Breckenridge / Franklin Elementary School Sewer Relocation Project. Once the project was completed, it was noted that additional sanitary con-nections were found just upstream of CSO 80. These connections were removed through the implementation of a miniseparation project and the CSO was permanently closed.	2001	\$250,000.00	
CSO 123	CSO 123 had 3 distinct areas contributing to the overflow. All 3 areas had new storm sewers constructed and the existing combined sewers were converted to sanitary. Following a one year flow monitoring period the regulator was removed and the overflow was permanently eliminated.	1999	\$308,000.00	CSO 123 was the most upstream CSO in the Middle Fork Beargraass Creek.
CSO 143	This 8-inch high level overflow on a local 8-inch sanitary sewer was determined to be unnecessary and was blocked up and the CSO was eliminated.	1994	N/A	This overflow was closed prior to the completion of the SWMM model development and calibration.
CSO 145	CSO eliminated as part of Letterle PS elimination project	2002	N/A	
CSO 162	A vortex valve was installed in the main line between CSO 162 and CSO 166. The vortex valve regulates the flow advancing to CSO 162. After limiting the flow from CSO 166, the Middle Fork Interceptor was monitored to see if the regulated flow could be contained in the interceptor. CSO 162 was then closed.	1997	N/A	The elimination of the CSO was completed to reduce operation & maintenance issues and thus resulted in negligible decrease of overflow volume.
CSO 204	After completion of the reconnection of several catch basin inlets the overflow discharge pipe was plugged, and CSO 204 was eliminated.	2000	N/A	
CSO 209	The 105-acre area served through CSO 209 consists of approximately 350 residential properties. The physical characteristics of the pipe network upstream of this CSO are not typical of the other CSO systems. This system contained two pipe networks (storm and sanitary) with approximately 37 common manholes. Within each common manhole there was a wall dividing the systems. During a heavy rain, the water level rose such that there was a transfer of flows within the manholes. The pipe system contains 14,225 lin-ear feet of "sanitary sewer" pipe and 15,075 linear feet of "storm sewer" pipe. To date, the MSD public system has been separated. The CSO will be permanently closed following completion of the downspout removal project.	2005	\$1,900,000.00	CSO 209 was located in an environmentally sensitive area, and its outfall is on the Middle Fork of Beargrass Creek in Cherokee Park.

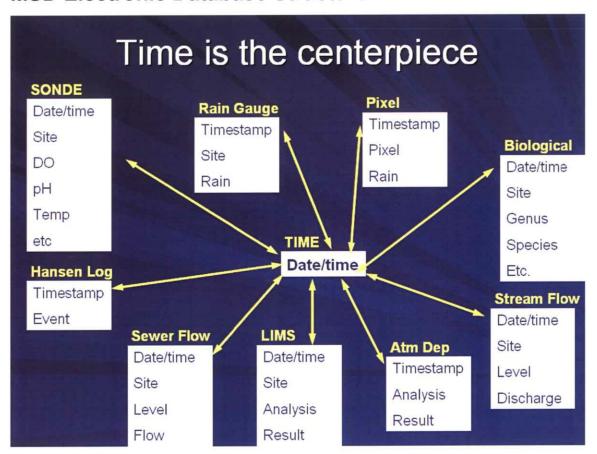
<sup>\*\*\*</sup>Most of the eliminated CSO general served a fairly small drainage and contrinted a very small nercentage of the overflow to the entire system

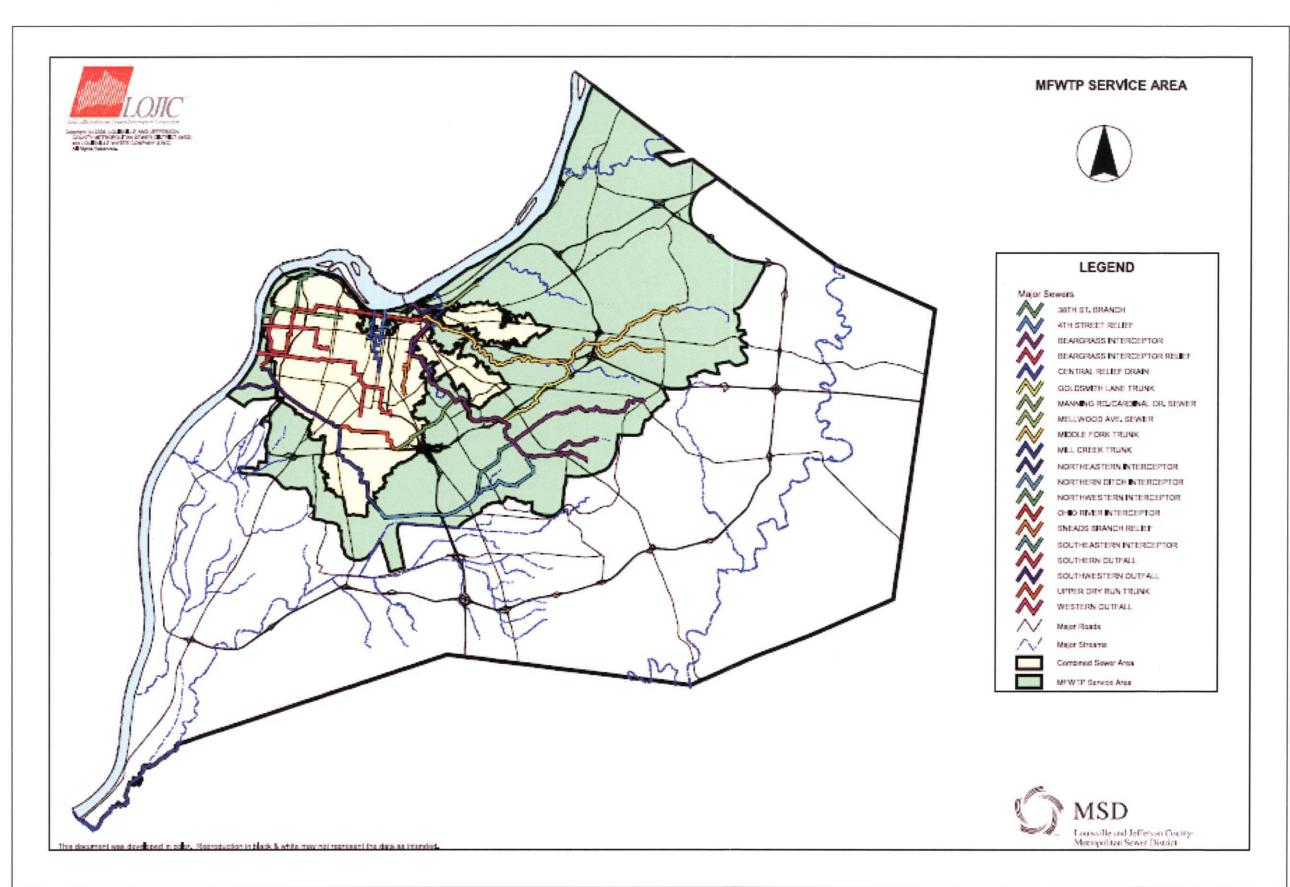
#### Table 10-15 Supplemental Monitoring Programs page 1 of 1

Objective	Program Status	Reference
Monitoring sewer flow to refine the model representations of quantity of flow entering the combined sewer service area interceptors from the boundary with the sanitary sewer service area	In development	Section 11.2.5, Interim Long Term Control Plan, September 2006.
Monitoring CSO flow rates at large volume CSO locations to refine the overflow volume estimates.	In development	Section 11.2.5, Interim Long Term Control Plan, September 2006
Monitoring selected receiving water locations, flow and quality, to refine the Water Quality Tool as necessary to support the TMDL. Data collected for this purpose is not considered essential to the long term control planning and hence not discussed further in this summary of long term control plan monitoring and modeling.	In development	Section 11.2.5, Interim Long Term Control Plan, September 2006

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Figure 10-1
MSD Electronic Database Structure





## FIGURE 10-2 MFWTP SERVICE AREA

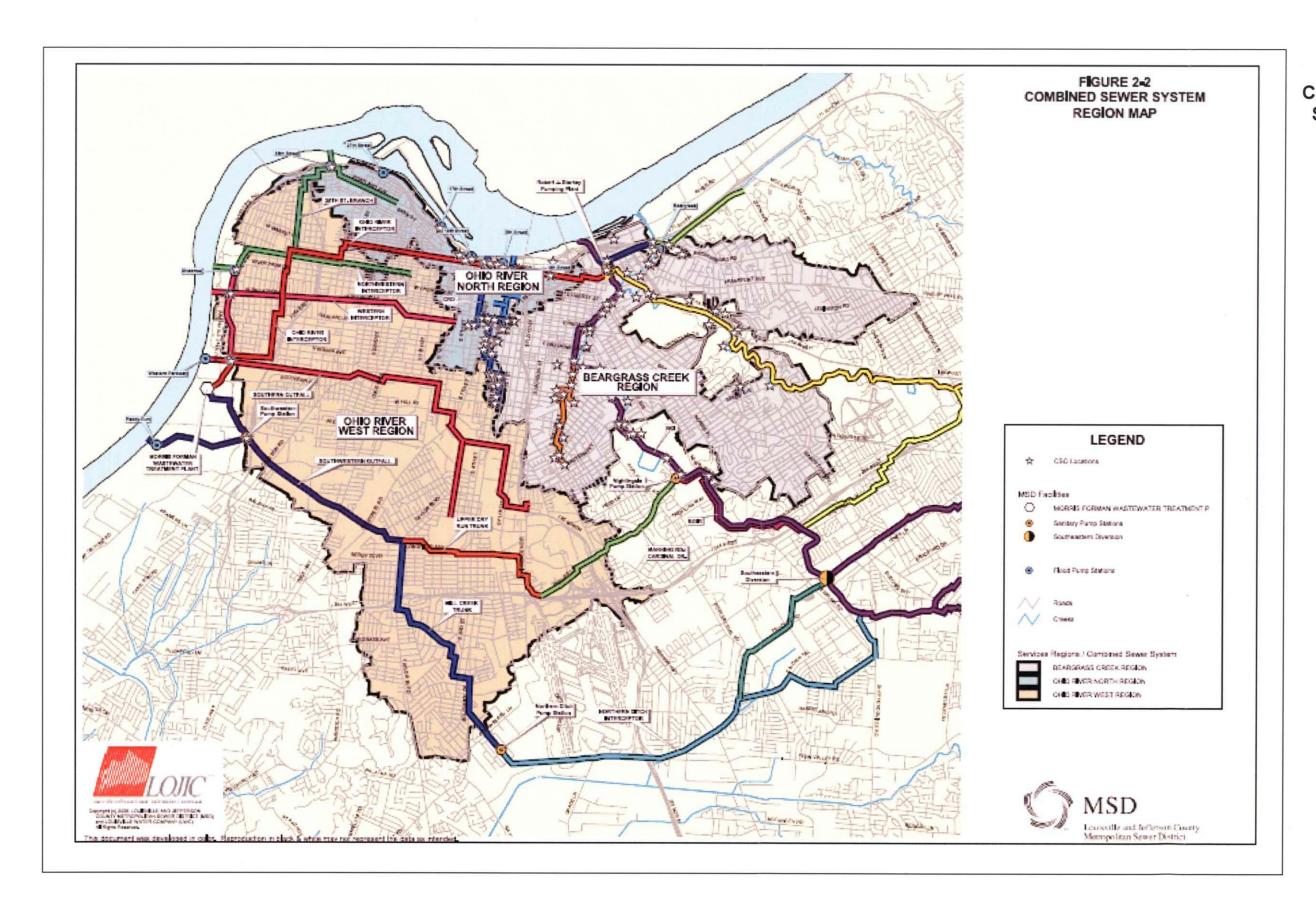
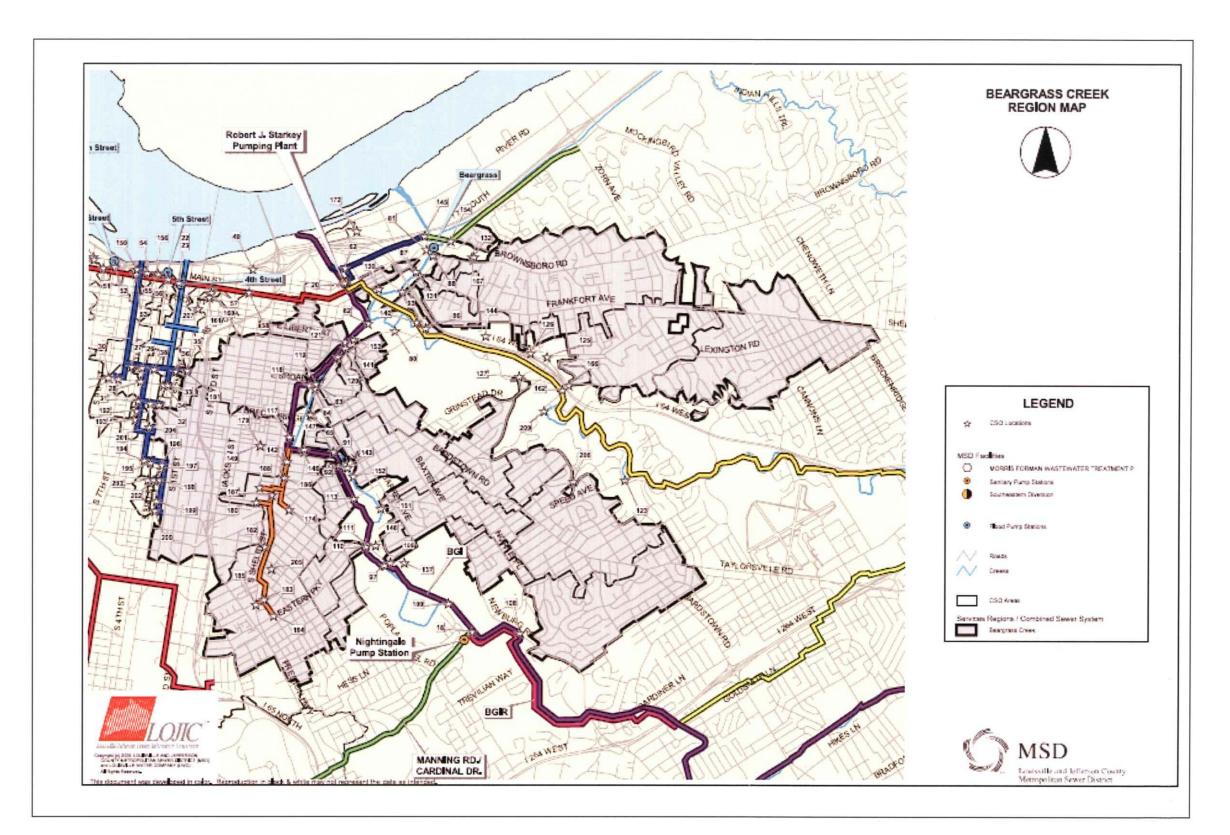
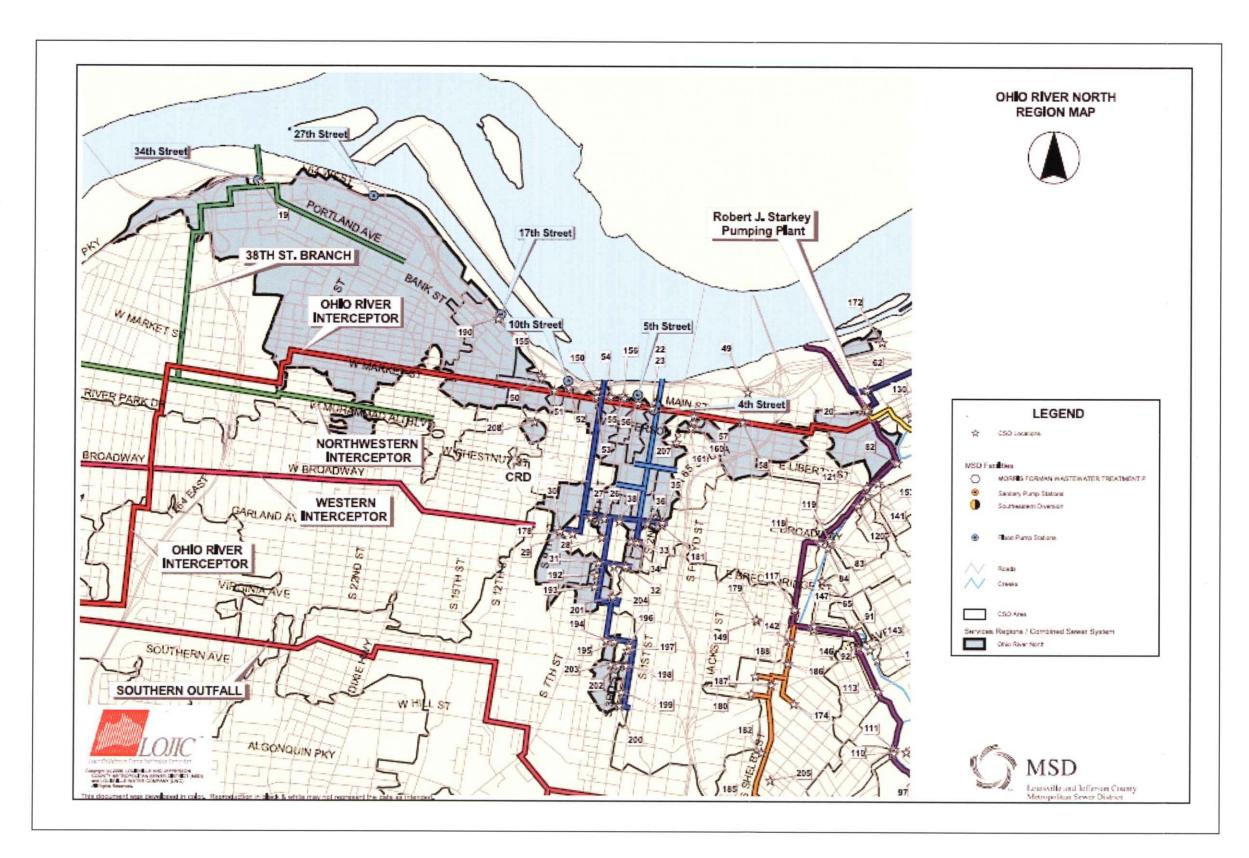


Figure 10-3
COMBINED SEWER
SYSTEM REGION
MAP



# Figure 10-4 BEARGRASS CREEK REGION MAP



## Figure 10-5 OHIO RIVER NORTH REGION MAP

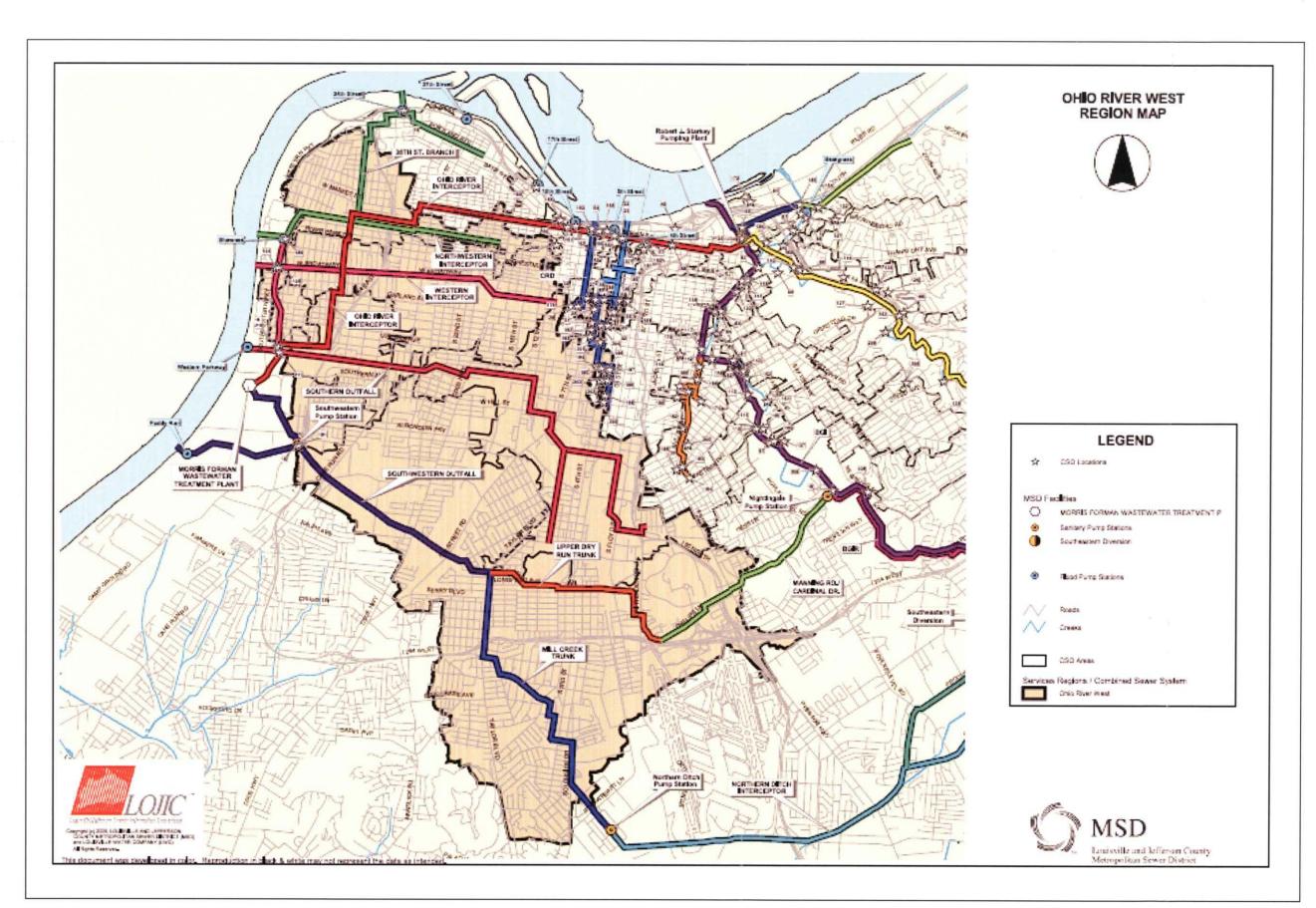


Figure 10-6
OHIO RIVER
WEST
REGION MAP

## FIGURE 10-7 SAMPLE CSO INVENTORY SHEET

DATE: JUNE 4, 1991
CSO SERIAL NO. 126
REGULATOR NO. 25 - RAYMOND AVENUE SEWER
LOCATION: Nonth of I-64, east of Saunders Lane and west of Grinstead Drive
OVERFLOW TYPE: REG

STRUCTURE OVERFLOW ELEVATION:

438.83 - Crest of dam

#### OVERPLOW TYPE AND SEWER GEOMETRY:

The overflow is located on a 36° circular sewer flowing south from Bickel Avenue. A 27° circular sewer flowing east from Saunders Avenue enters the 36° sewer just upstream of the overflow structure. The Middle Fork Interceptor is flowing west below the 27° sewer. The 36° sewer enters a diversion chamber at invert elevation 437.95 where the low flows drop through missing rack bars and discharge through a 15° sewer at invert elevation 434.44 to a regulator chamber. The flow exits the 15° sewer into the regulator chamber through a regulated opening. The regulator is operated by a float system, which is "tell-taled" off the Middle Fork Interceptor through a 10° sewer. The flow exits the regulator chamber through an 18° sewer at invert elevation 434.08 to the 33° Middle Fork Interceptor. The invert elevation of the interceptor at this point is 433.07°. The float system shuts the regulated opening when the flow in the Middle Fork Interceptor reaches elevation 435.77°. The overflows exit the diversion chamber through a 4° x 3° box culvert with a 12° dam located about 5' downstream of the diversion chamber. The crest of the dam is at elevation 438.83.

The shut-off elevation is taken from construction plans. The actual working elevations and capabilities of the regulator are unknown.

#### BACKWATER LENGTHS AND STORAGE VOLUMES:

The 36" sewer is at a 2.373% grade. A 12" dam corresponds to backwater length of about 42 feet. The storage is about 40 cubic feet.

#### DOWNSTREAM BACKWATER EFFECTS:

The overflow discharges to a 6' x 4' box culvert flowing south under I-64 to the Middle Fork of Beargrass Creek. High levels in the creek may backup into the overflow.

### COMBINED SEWER OVERFLOW INVENTORY FIELD INVESTIGATION REPORT

CSO NO.: 126 NAME OF STRUCTURE: Regulator No. 25

LOCATION: In easement east of Saunders Lane, north of I-64, west of Grinstaed Drive

DATE INSTALLED: 1936 TYPE OF STRUCTURE: Regulator chamber

MSD ATLAS NO:1-15 RECORD NOS: \_\_G-51, 56, 57, 58

INTENDED OPERATION AND FUNCTION: To divert low flow from Raymond Avenue area combined to Middle Fork Interceptor sanitary. Tell-tale works by the depth of flow in Beauguess Interceptor.

FUNCTION AND OPERATION FOUND DURING FIELD INVESTIGATION:  $\underline{As should \ be}.$ 

## DRY WEATHER FLOW CONDITIONS NAME OF INLET SEWER Raymond Avenue Sewer

RECORD NOS. <u>(G-51, 56, 57, 58</u> SIZE:<u>36\*</u> GRADE:<u>2.73%</u>

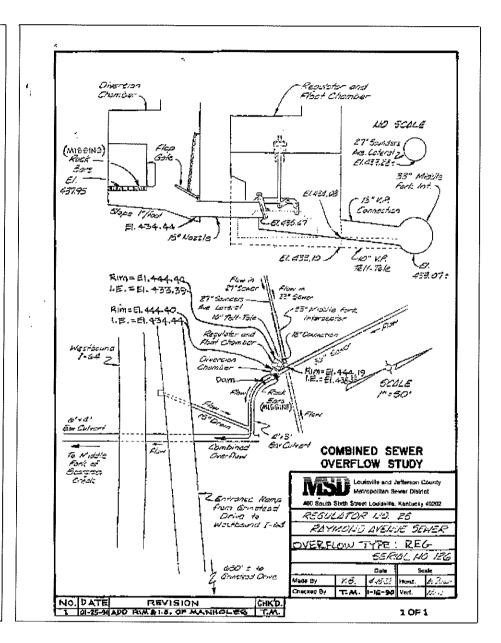
LOW FLOW CONNECTION: SIZE:<u>18\*</u> GRADE:<u>N/A</u>

NAME OF OUTLET SEWER Middle Fork Interceptor

RECORD NOS.: A-75 SIZE:33" GRADE:0.11%

NAME OF EVENTUAL RECEIVING BODY OF WATER: Middle Fork of Beargrass Creek REMARKS

FIELD INVESTIGATED BY: Tom Middeler DATE: 8/22/89





Updated

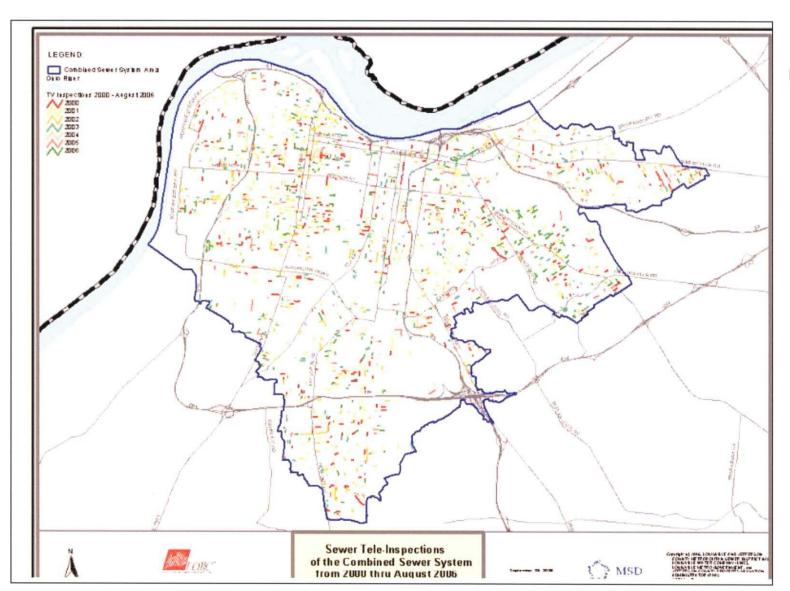


FIGURE 10-8 CCTV INSPECTIONS

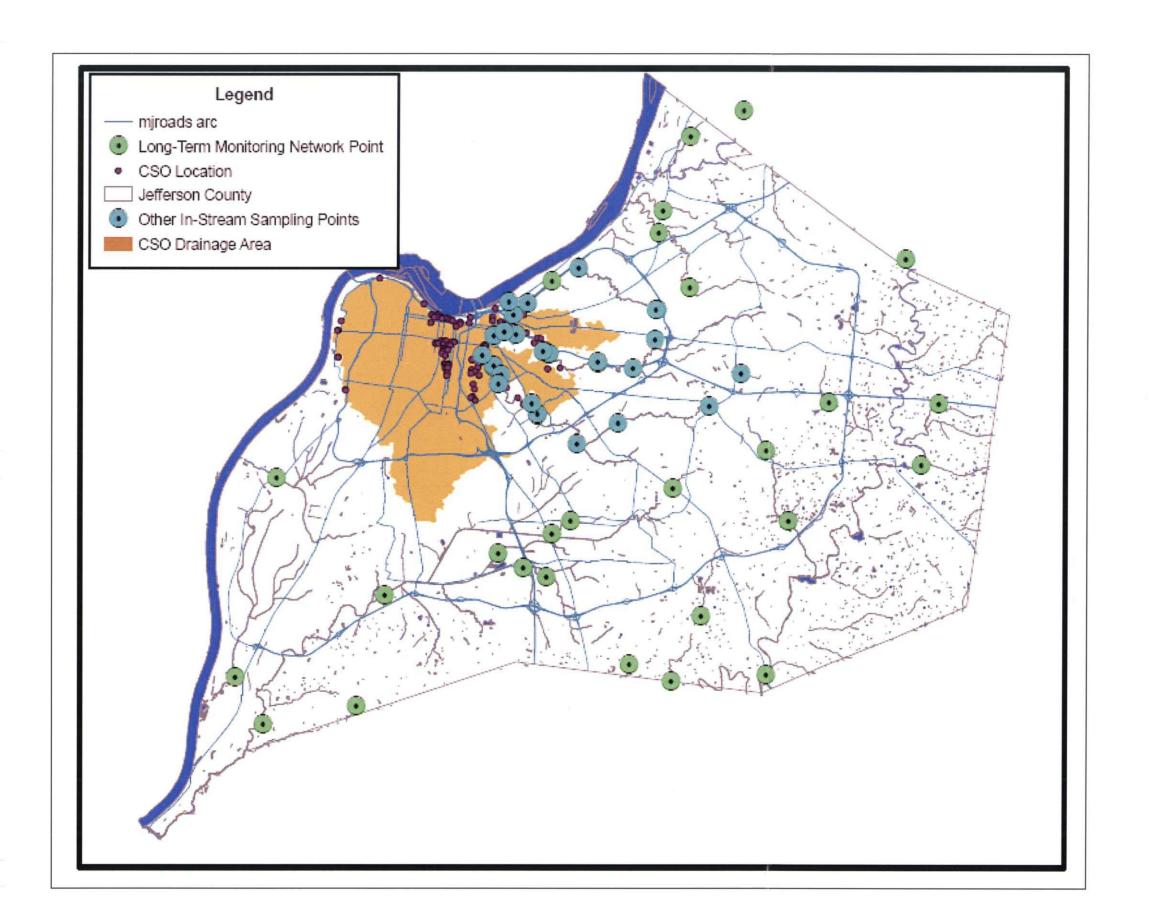


Figure 10-9
MONITORING
LOCATIONS

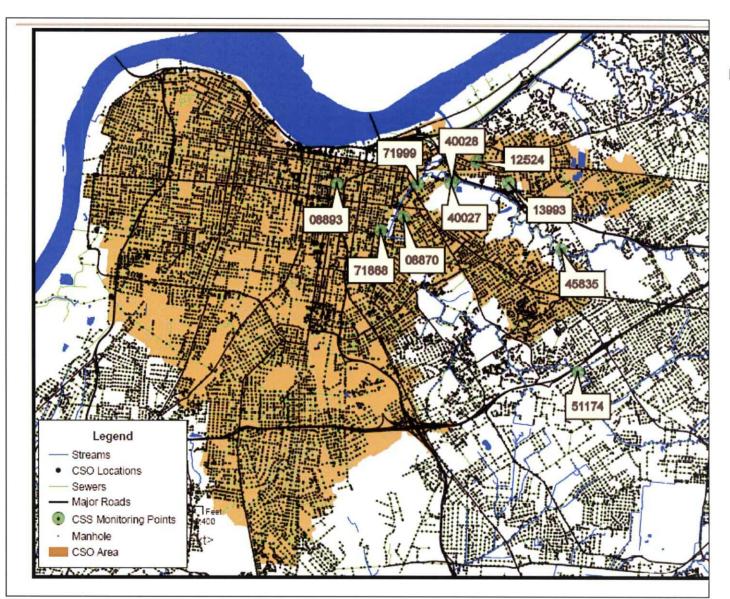


TABLE 10-10

CSS
MONITORING
LOCATIONS

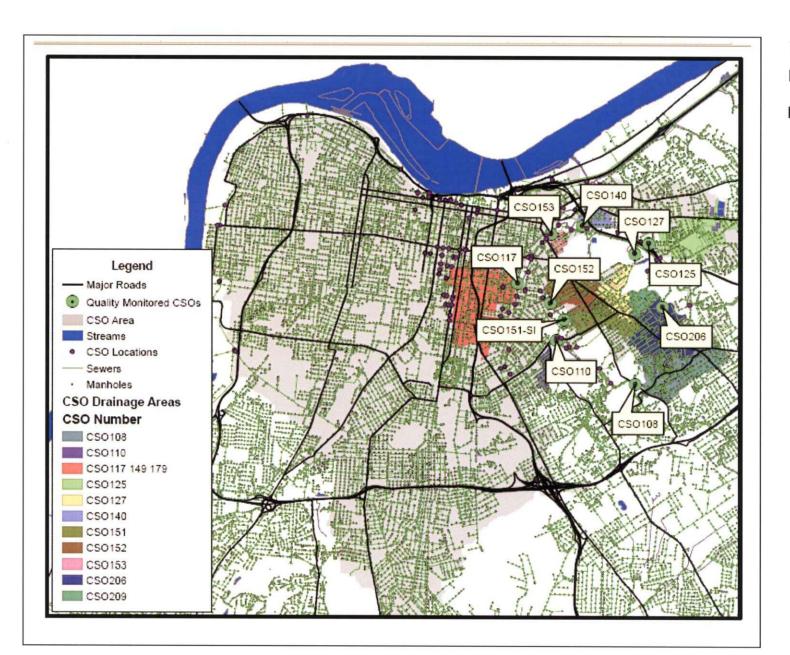


TABLE 10-11
BEARGRASS
CREEK
MONITORING
SITES

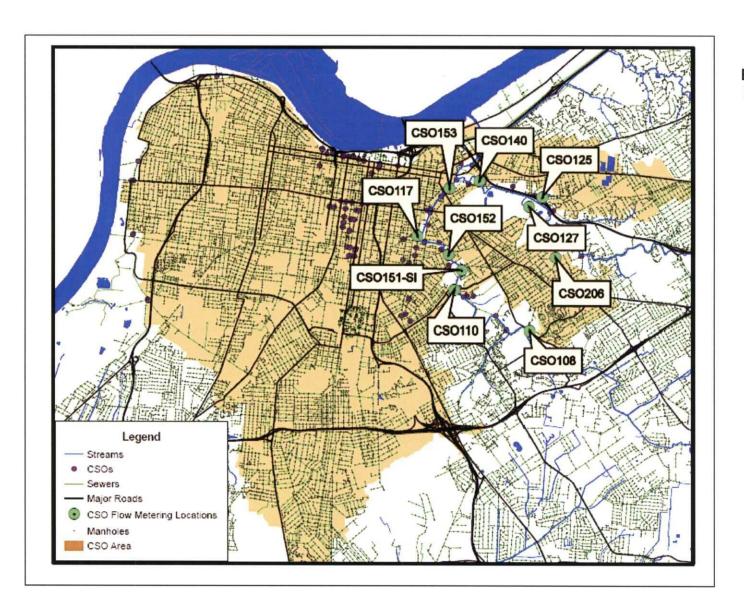


TABLE 10-12
BEARGRASS CREEK
FLOW MONITORING
SITES

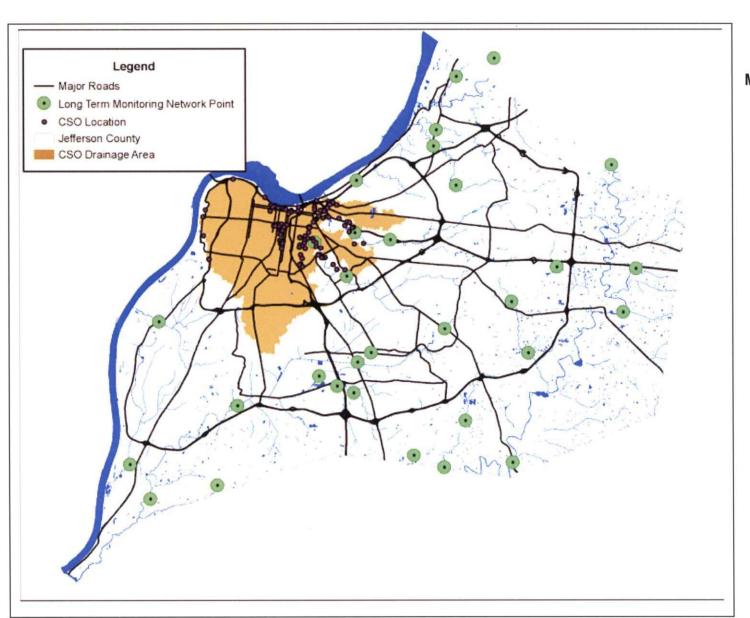


TABLE 10-13

LONG TERM
MONITORING SITES

### FIGURE 10-14 CSS MODEL TIME LINE

