

## CSO PROGRAM HISTORY

PROJECT	LOCATION	REGION	PROJECT TYPE	STATUS	DATE COMPLETED	COST	BENEFIT
<b>REGION 1</b>							
CSO 143 Elimination	Kentucky Street	1	Maintenance	Complete	December-94	\$4,000	CSO Elimination
Raised Dam at CSO 140	Locust Street	1	Maintenance	Complete	March-95	\$2,000	Overflow Reduction
Net Bag Solids and Floatables Control Demonstration Project	CSOs 110, 151 and 152 on Beargrass Creek near Eastern Parkway	1	Mini Project	Complete	September-95	\$100,000	S&F Control
Buchanan Pump Station Modifications to Wetwell Operating Levels	Buchanan Street	1	Maintenance	Complete	January-96	\$4,000	Overflow Reduction
Raised Dam at CSO 127	Etley Avenue	1	Maintenance	Complete	January-96	\$2,000	Overflow Reduction
CSO 65 Elimination	Lampton Street	1	Maintenance	Complete	May-96	\$4,000	CSO Elimination
Raised Dam at CSO 84	Brent Street	1	Maintenance	Complete	March-97	\$2,000	Overflow Reduction
Raised Dam at CSO 120	Pheonix Hill Sewer East of Beargrass Creek and South of Baxter Avenue	1	Maintenance	Complete	March-97	\$2,000	Overflow Reduction
CSO 162 Elimination	Cherokee Park	1	Maintenance	Complete	July-97	\$4,000	CSO Elimination
Raised Dam at CSO 121	Green Street	1	Maintenance	Complete	October-97	\$2,000	Overflow Reduction
Raised Dam at CSO 186	Logan Street and Oak Street	1	Maintenance	Complete	February-99	\$2,000	Overflow Reduction
Raised Dam at CSO 187	Shelby Street and Camp Street	1	Maintenance	Complete	February-99	\$2,000	Overflow Reduction
CDS Demo Project at CSO 108	Newburg Road north of Trevillian Way	1	Capital Project	Complete	February-99	\$1,600,000	S&F Control
CSO 123 Elimination	Cherokee Park @ Spring Valley Lane	1	Mini-Project	Complete	April-99	\$308,000	CSO Elimination
CSO 88 Sewer Separation Project	Brownsboro Road near Beargrass Creek	1	Capital Project	Complete	January-01	\$600,000	CSO Elimination
Real Time Control Phase II Study for Region 1	Region 1 of the Combined Sewer System	1	Study	Complete	June-01	\$125,000	Overflow Reduction
CSO 209 Sewer Separation Project	Bonnycastle Avenue/Eastern Parkway Area near Middle Fork Beargrass Creek	1	Capital Project	Complete	August-01	\$1,900,000	CSO Elimination
CSO 80 Elimination	Lexington Road West of Payne Street	1	Mini-Project	Complete	September-01	\$250,000	CSO Elimination
Sneads Branch In-Line Storage Project	Logan Street and Kentucky Street	1	Capital Project	Complete	September-01	\$1,500,000	Overflow Reduction
CSO 147 Sewer Separation Project	Swan Street near Beargrass Creek	1	Capital Project	Complete	September-01	\$1,175,000	CSO Elimination
UV Pilot at CSO 108	Newburg Road north of Trevillian Way	1	Evaluation	Complete	September-01	\$55,000	CSO Treatment
CSO 209 Downspout Disconnection Project	Bonnycastle Avenue/Eastern Parkway Area near Middle Fork Beargrass Creek	1	Capital Project	Complete	September-01	\$40,000	Overflow Reduction
Design of CSOs 132/167 Solids and Floatables Project	Mellwood Avenue near Edwards Pond Branch	1	Capital Project	On-going	November-01	\$220,000	S&F Control
Beargrass Creek Gross Screening Project	Beargrass Creek at Beargrass Creek Flood Pumping Station	1	Mini Project	On-going	December-01	\$400,000	S&F Control
CSO 108 NSF Verification Testing	Newburg Road north of Trevillian Way	1	Study	On-going	June-02	\$110,000	CSO Treatment
Water Quality Evaluation Planning Tool	South Fork of Beargrass Creek	1	Study	On-going	June-03	\$700,000	Project Prioritization
Buchanan Pump Station Modifications	Buchanan Street	1	Capital Project	On-going	February-04	\$10,956,000	Overflow Reduction
Beargrass Creek Solids and Floatables Project Project	Beargrass Creek Watershed	1	Design	On-going	September-08	\$4,000,000	S&F Control
CSO 206 Sewer Separation Project	Bardstown Road/Speed Avenue Area on Middle Fork Beargrass Creek	1	Capital Project	On-going	On-going	\$3,000,000	CSO Elimination
<b>Region 1 Cost Subtotal</b>						<b>\$27,069,000</b>	
<b>REGION 2</b>							
Raised Dam at CSO 150	Eighth Street Sanitary Diversion	2	Maintenance	Complete	June-94	\$2,000	Overflow Reduction
Raised Dam at CSO 51	Eleventh Street Overflow	2	Maintenance	Complete	June-94	\$2,000	Overflow Reduction
Raised Dam at CSO 155	Rowan Street Sanitary Diversion	2	Maintenance	Complete	June-94	\$2,000	Overflow Reduction
Raised Dam at CSO 22	Fourth Street Pump Station	2	Maintenance	Complete	August-94	\$2,000	Overflow Reduction
Central Relief Drain Cleaning	Downtown Louisville	2	Maintenance	Complete	September-94	\$80,000	Overflow Reduction
Raised Dam at CSO 31	Sixth Street and Breckenridge	2	Maintenance	Complete	September-97	\$2,000	Overflow Reduction
CDS Demo Project at CSO 50	Twelfth Street and Rowan Street	2	Mini Project	Complete	February-98	\$300,000	S&F Control
CSO 49 Elimination	Preston Street North of Jackson Street	2	Maintenance	Complete	August-99	\$4,000	CSO Elimination
CSO 204 Elimination	Fifth Street and Breckenridge Street	2	Maintenance	Complete	June-00	\$4,000	CSO Elimination
Sewer Reconnection Project	11th and Rowan Streets	2	Mini Project	Complete	October-01	\$180,000	Overflow Reduction
<b>Region 2 Cost Subtotal</b>						<b>\$578,000</b>	
<b>Region 3</b>							
Maple Street CSO/Flood Control Basin Preliminary Design	21st and Maple Streets	3	Capital Project	Complete	June-94	\$100,000	Overflow Reduction
Wheeler Avenue CSO/Flood Control Basin	Wheeler Avenue	3	Capital Project	Complete	May-98	\$4,925,000	Overflow Reduction
Upper Dry Run Trunk Regional Storage Facility	Kentucky Fair and Exposition Center	3	Capital Project	On-going	February-03	\$7,500,000	Overflow Reduction
<b>Region 3 Cost Subtotal</b>						<b>\$12,525,000</b>	

## CSO PROGRAM HISTORY

PROJECT	LOCATION	REGION	PROJECT TYPE	STATUS	DATE COMPLETED	COST	BENEFIT
<b>CSO Areawide Efforts</b>							
CSO Sampling	Combined Sewer System	1, 2 & 3	Capital Project	Complete	June-00	\$100,000	Regulatory Requirement
Real Time Control Phase I Study for Regions 2 & 3	Regions 2 & 3 of the Combined Sewer System	2 & 3	Study	Complete	June-00	\$75,000	Overflow Reduction
Real Time Control Implementation Project	Combined Sewer System	1, 2 & 3	Design	On-going	June-03	\$2,340,000	Overflow Reduction
Basement Backflow Prevention Program	Countywide	1, 2 & 3	Capital Project	On-going	On-going	\$10,050,000	Private Property Protection
Combined Sewer System Inventory, Model Development and Continuing Updating	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$1,600,000	System Knowledge
Preparation of CSOPs	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$500,000	Regulatory Requirement
Nine Minimum Controls	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$364,000	Regulatory Requirement
LTCP Development and Updating	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$816,000	Regulatory Requirement
Analysis of CSS Flooding	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$107,000	Property Protection
Analysis of Development within the CSS	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$250,000	Overflow Reduction
Performance Evaluation of CSO Projects	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$248,000	System Knowledge
Program Management Services	Combined Sewer System	1, 2 & 3	Capital Project	On-going	On-going	\$992,000	System Knowledge
<b>Areawide Cost Subtotal</b>						<b>\$17,442,000</b>	
<b>Total Costs</b>						<b>\$57,614,000</b>	



**COMBINED SEWER OVERFLOW TABULATION  
STATUS THROUGH JULY 2001**

CSO NO.	CSO NAME	LOCATION	RECEIVING STREAM	AVG. ANN. OVERFLOW (MG/YR)	OVERFLOW TYPES AND CONFIGURATION											STATUS	LATITUDE - N			LONGITUDE - E			COMMENTS	
					REG	DAM	RACK BARS	DIV SEWER DIA	SIDE WEIR	SIDE WEIR LENGTH	HIGH LEVEL	HIGH LEVEL DIA	LEAP WEIR	DIV SEWER DIA	ORIFICE		DEG	MIN	SEC	DEG	MIN	SEC		
143	KENTUCKY STREET BLOW-OFF	OAK & BGC	SF BGC	Eliminated								X	8"				ELIMINATED	38	14	4.8	85	43	49.3	Plugged-CSO not needed
144	VANCE ST REGULATOR	S END OF VANCE & I-64	MF BGC	0.8	X	X		7" x 15"									ACTIVE	38	15	2.8	85	42	35.1	
145	POINT PUMP STATION	POINT PUMP STATION	SF BGC	0													ACTIVE	38	15	45.3	85	43	9.7	CSO to be Eliminated
146	SNEADS BRANCH DIVERSION	SWAN ST S OF BGC	SF BGC	72.5			H	18"									ACTIVE	38	14	11.3	85	44	13.5	Includes SBR CSOs
147	SWAN STREET DIVERSION	SWAN ST N OF BGC	SF BGC	5.4											10"		ACTIVE	38	14	12.4	85	44	13.3	
148	EASTERN PKWY DIVERSION	EASTERN PKWY E OF BGC	SF BGC	1.8		X		8"									ACTIVE	38	13	31.4	85	43	33.2	
149	DRY RUN DIVERSION	KENTUCKY STREET & ST PAUL CT	SF BGC	Part of 117		X		48" x 33"									ACTIVE	38	14	14.0	85	44	37.2	
150	8th ST @ COMMON PLACE	8th ST & COMMON PLACE	OR	Part of 53		X		8"									ACTIVE	38	15	28.7	85	45	46.8	
151	REG NO 5 - CASTLEWOOD	BGC & CASTLEWOOD DELL	SF BGC	61.4	X		H	24"									ACTIVE	38	13	47.6	85	43	30.8	
152	REG NO 7 - SOUTHEASTERN	BGC & RUFER AVENUE	SF BGC	42.1	X		H	18"									ACTIVE	38	14	1.3	85	43	43.1	
153	COOPER STREET	LEXINGTON & COOPER	SF BGC	10.6		X		8"									ACTIVE	38	15	0.3	85	43	47.3	
154	MELLWOOD @ SCHOEFFEL	MELLWOOD AVE & EDWD POND BR	MudF BGC	10.7		X		12" & 15"									ACTIVE	38	15	43.3	85	42	55.2	
155	ROWAN ST @ 12th ST	ROWAN & 12th	OR	1.2		X		8"									ACTIVE	38	15	33.8	85	46	10.7	
156	6th & WASHINGTON SAN DIV	WASHINGTON W OF 6th	OR	0		X		6"									ACTIVE	38	15	27.5	85	45	35.7	
160	SEWER IN ALLEY SAN DIV	1ST ST BTW MAIN & MARKET	OR	0.9		X		6"									ACTIVE	38	15	19.3	85	45	5.7	
161	MARKET ST SAN DIV	FIRST & MARKET	OR	0.8		X		8"									ACTIVE	38	15	17.0	85	45	6.7	
162	BEALS BRANCH HW REG	ON MFT S OF LEXINGTON	MF BGC	0	X			24"									ELIMINATED	38	14	39.8	85	41	52.6	Overflow Plugged
166	BEALS BRANCH SAN DIV	LEXINGTON RD & I-64	MF BGC	57.9		X	H	24"									ACTIVE	38	14	41.8	85	41	79.1	
167	BROWNSBORO LAT NO 2	BROWNSBORO & DRESCHER B	MudF BGC	Part of 132		X		15"									ACTIVE	38	15	36.6	85	42	43.4	
172	ADAMS STREET	ADAMS ST & I-64	OR	0.9					X	3'-6"							ACTIVE	38	15	46.7	85	43	46.8	
174	SBR GOSS & BOYLE	GOSS AVE & BOYLE ST	SF BGC	Part of 146					X	4'							ACTIVE	38	13	46.5	85	44	20.9	
178	CRD 9th & YORK "B"	9th & YORK	OR	0.2					X	8'							ACTIVE	38	14	41.7	85	46	1.5	
179	KENTUCKY ST SEWER OVFL	KENTUCKY ST & ST PAUL CT	SF BGC	Part of 117					X								ACTIVE	38	14	14.0	85	44	37.5	
180	SBR ORMSBY AVE RELIEF	ORMSBY & CLAY	SF BGC	Part of 146					X	6'							ACTIVE	38	13	49.4	85	44	39.0	
181	CRD 2nd & BROADWAY NO 2	2nd & BROADWAY	OR	1					X	5'-9"							ACTIVE	38	14	45.0	85	45	18.2	
182	SBR SHELBY & BURNETT	BURNETT W OF SHELBY ST	SF BGC	Part of 146					X	5'							ACTIVE	38	13	30.0	85	44	34.1	
183	SBR ALEXANDER & KESWICK	ALEXANDER & KESWICK	SF BGC	Part of 146							X	18"					ACTIVE	38	13	7.2	85	44	33.9	
184	SBR FETTER & ALEXANDER	FETTER & ALEXANDER	SF BGC	Part of 146					X	4'-6"							ACTIVE	38	13	0.7	85	44	28.3	
185	SBR SHELBY & KESWICK	SHELBY & KESWICK	SF BGC	Part of 146					X	4'							ACTIVE	38	13	5.3	85	44	38.2	
186	SBR LOGAN & OAK	LOGAN & OAK	SF BGC	Part of 146					X	7'							ACTIVE	38	13	59.8	85	44	23.8	
187	SBR SHELBY & CAMP	SHELBY & CAMP	SF BGC	Part of 146					X	4'							ACTIVE	38	13	52.5	85	44	30.6	
188	SBR SHELBY & CLAY	SHELBY & CLAY	SF BGC	Part of 146					X	4'							ACTIVE	38	13	55.6	85	44	37.4	
189	NORTHWESTERN SAN DIV	SHAWNEE PARK FLOOD PS	OR	264.1					X	27'							ACTIVE	38	15	19.2	85	49	37.7	
190	SEVENTEENTH ST SAN DIV	17th ST & NW PKWY	OR	20.1		X		24"									ACTIVE	38	15	52.4	85	46	29.3	
191	ALGONQUIN PKWY SAN DIV	SOUTHWESTERN PS	OR	43.9		X		24"									ACTIVE	38	13	16.0	85	49	24.5	
192	CRD S 6th & GARLAND	6th & GARLAND	OR	1.1					X	4'							ACTIVE	38	14	27.9	85	45	45.5	
193	CRD S 6th & KENTUCKY	6th & KENTUCKY	OR	1.3					X	4'							ACTIVE	38	14	24.0	85	45	46.1	
194	CRD S OAK W OF 4th	OAK ST W OF 4th ST	OR	0					X	6'							ACTIVE	38	14	6.4	85	45	40.8	
195	CRD S 4th & OAK	4th & OAK	OR	0.4					X	4'							ACTIVE	38	14	5.8	85	45	37.2	
196	CRD S 3rd & OAK	3rd & OAK	OR	2.2					X	4'							ACTIVE	38	14	4.8	85	45	30.9	
197	CRD S 3rd S OF OAK	3rd ST S OF OAK ST	OR	1					X	4'							ACTIVE	38	14	3.1	85	45	31.5	
198	CRD S 3rd & ORMSBY	3rd & ORMSBY	OR	2.8					X	4'							ACTIVE	38	13	58.2	85	45	32.1	
199	CRD S 3rd N OF MAGNOLIA	3rd ST N OF MAGNOLIA	OR	0.1					X	4'							ACTIVE	38	13	49.2	85	45	33.7	
200	CRD S 3rd & MAGNOLIA	3rd & MAGNOLIA	OR	0.9					X	4'							ACTIVE	38	13	44.7	85	45	34.5	
201	CRD S 5th & KENTUCKY	5th & KENTUCKY	OR	0.3					X	4'							ACTIVE	38	14	20.9	85	45	38.3	
202	CRD S ORMSBY W OF 3rd	ORMSBY W OF 3rd ST	OR	0.3					X	4'							ACTIVE	38	13	58.0	85	45	35.3	
203	CRD S 4th & ORMSBY	4th & ORMSBY	OR	0.2					X	4'							ACTIVE	38	13	58.3	85	45	38.5	
204	CRD S 5th & BRECKINRIDGE	5th & BRECKINRIDGE	OR	1.1					X	4'							ACTIVE	38	14	30.9	85	45	38.1	
205	SBR MORGAN STREET RELIEF	MORGAN & HOERTZ	SF BGC	Part of 146							X	15"					ACTIVE	38	13	20.8	85	44	30.1	
206	CHEROKEE PARK @ SPRING DR	CHEROKEE RD & SPRING DR	MF BGC	73.6		X		8"									ACTIVE	38	14	0.3	85	41	45.8	
207	2nd & JEFFERSON	2ND & JEFFERSON	OR	0		X		8"									ACTIVE	38	15	12.5	85	45	12.8	
208	12th & JEFFERSON	12th & JEFFERSON	OR	0.03		X		12"									ACTIVE	38	15	18.5	85	46	13.0	
209	CHEROKEE PK @ PARK BD RD	CHEROKEE PK @ PARK BD RD	MF BGC	7.9		X											ACTIVE	38	14	0.3	85	41	45.8	
210	45th STREET-GREENWOOD	S OF 45th & WINNROSE	OR	Part of 16		X		10"									ACTIVE	38	14	14.3	85	41	41.8	

Notes:  
OR - Ohio River  
SF-BGC - South Fork of Beargrass Creel  
MF-BGC - Middle Fork of Beargrass Creek  
L-BGC - Lower Beargrass Creek  
SBR - Sneads Branch Relief Sewer  
CRD - Central Relief Drain

**Table 1.** Flow Data CSO 108 - 7/1/00 through 6/30/01 --Raienguage 19

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 75.6 MG/YR		
7/5/2000	37,834	0.70
7/12/2000	193,596	0.51
7/13/2000	69,315	0.29
7/19/2000	781,966	0.60
8/18/2000	533,959	1.95
9/2/2000	289,167	1.19
9/11/2000	456,783	1.00
9/24/2000	99,183	0.70
9/25/2000	831,895	1.56
11/25/2000	30,440	1.14
12/16/2000	4,635,554	2.58
1/29/2001	83,667	0.38
2/9/2001	398,914	0.53
2/14/2001	769	0.22
2/15/2001	338,296	0.99
2/16/2001	471,970	0.52
2/25/2001	1,059,547	0.86
3/4/2001	1,058,264	1.14
3/16/2001	30,307	0.21
4/1/2001	55,869	0.19
4/3/2001	20,468	0.35
4/10/2001	50,118	0.10
5/7/2001	1,133,667	1.65
5/8/2001	38,373	0.11
5/11/2001	48,097	0.88
5/18/2001	8,456	0.27
5/21/2001	229,635	0.77
5/22/2001	87,008	0.23
5/26/2001	122,032	0.45
5/27/2001	32,218	0.02
6/2/2001	25,456	0.05
6/4/2001	64,200	0.48
6/7/2001	154,557	0.14
6/15/2001	147,918	0.74
6/20/2001	191,410	0.09
6/21/2001	26,135	0.44
6/29/2001	65,047	0.71

**Table 2.** Flow Data CSO 110 - 7/1/00 through 6/30/01 --Raiinguage 19

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 15.3 MG/YR		
7/4/2000	6,719	0.21
7/5/2000	4,826	0.70
8/8/2000	28,707	0.51
8/18/2000	93,054	1.95
8/23/2000	19,726	0.43
8/24/2000	21,160	0.39
9/11/2000	12,198	1.00
9/24/2000	49,411	0.70
9/25/2000	177,981	1.56
10/5/2000	28,442	0.31
10/6/2000	15,100	0.07
11/6/2000	13,490	0.41
11/8/2000	24,196	0.38
11/9/2000	105,864	0.60
11/25/2000	143,111	1.14
12/11/2000	32,996	0.45
12/13/2000	93,009	0.40
12/16/2001	2,496,091	2.58
1/29/2001	11,530	0.38
2/9/2001	71,475	0.53
2/14/2001	109	0.22
2/15/2001	71,986	0.99
2/16/2001	70,624	0.52
2/25/2001	206,301	0.86
3/4/2001	195,999	1.14
3/16/2001	4,386	0.21
4/1/2001	4,628	0.19
4/3/2001	2,886	0.35
4/10/2001	7,769	0.10
5/7/2001	169,053	1.65
5/8/2001	2,952	0.11
5/11/2001	8,985	0.88
5/18/2001	981	0.27
5/21/2001	46,934	0.77
5/22/2001	27,027	0.23
5/26/2001	19,045	0.45
5/27/2001	4,035	0.02
6/2/2001	3,317	0.05
6/4/2001	12,157	0.48
6/7/2001	33,300	0.14
6/15/2001	29,389	0.74
6/20/2001	37,962	0.09
6/21/2001	2,077	0.44
6/29/2001	8,701	0.71

**Table 3.** Flow Data CSO 117 - 7/1/00 through 6/30/01 --Raiinguage 19

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 252.2 MG/YR		
10/5/2000	410,195	0.31
10/6/2000	114,004	0.07
11/6/2000	356,169	0.41
11/8/2000	302,000	0.38
11/9/2000	822,895	0.60
11/25/2000	966,402	1.14
12/11/2000	51,879	0.45
12/16/2001	2,334,644	2.58
1/8/2001	7,910	0.00
2/9/2001	721,670	0.53
2/14/2001	34,584	0.22
2/15/2001	1,960,658	0.99
2/16/2001	123,898	0.52
2/25/2001	970,610	0.86
3/4/2001	699,547	1.14
4/1/2001	20,949	0.19
4/3/2001	27,020	0.35
5/7/2001	1,951,812	1.65
5/11/2001	505,631	0.88
6/7/2001	440,151	0.14
6/15/2001	339,494	0.74
6/20/2001	242,444	0.09
6/21/2001	11,070	0.44
6/28/2001	584,427	0.01
6/29/2001	344,877	0.71

**Table 4.** Flow Data CSO 125 - 7/1/00 through 6/30/01 --Raiuage 6

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 51.4 MG/YR		
7/19/2001	128,013	0.55
8/18/2000	1,021,073	1.89
8/23/2000	11,123	0.44
8/24/2000	79,857	0.50
9/2/2000	27,839	1.34
9/11/2000	22,758	0.92
9/24/2001	28,836	0.92
9/25/2000	279,341	1.36
10/5/2000	22,758	0.38
10/6/2000	15,208	0.06
11/6/2000	10,342	0.43
11/8/2000	13,910	0.39
11/9/2000	46,718	0.56
11/14/2000	155,768	0.00
11/25/2000	107,759	1.08
12/11/2000	40,458	0.44
12/16/2000	8,304,311	2.83
1/29/2001	23,474	0.37
2/9/2001	147,212	0.53
2/14/2001	170	0.23
2/15/2001	65,418	0.95
2/16/2001	140,481	0.53
2/25/2001	322,569	0.80
3/4/2001	361,420	1.07
3/16/2001	6,822	0.31
4/1/2001	12,044	0.12
4/3/2001	4,488	0.18
4/10/2001	12,089	0.00
5/7/2001	349,390	0.80
5/8/2001	23,229	0.06
5/11/2001	13,999	0.22
5/18/2001	1,525	0.47
5/21/2001	69,350	1.23
5/22/2001	19,582	0.13
5/26/2001	30,107	0.52
5/27/2001	7,368	0.02
6/2/2001	5,156	0.18
6/4/2001	18,943	0.50
6/7/2001	51,942	0.15
6/15/2001	45,818	0.02
6/20/2001	46,691	0.00
6/21/2001	5,294	0.00
6/29/2001	18,326	0.01

**Table 5.** Flow Data CSO 127 - 7/1/00 through 6/30/01 --Raiuage 6

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 19.5 MG/YR		
9/24/2000	100,251	0.92
9/25/2000	488,725	1.36
10/17-11/1	Meter Failure	
12/16/2000	3,374,788	2.83
1/29/2001	10,874	0.37
2/9/2001	78,263	0.53
2/14/2001	4,165	0.23
2/15/2001	16,408	0.95
2/16/2001	68,445	0.53
2/25/2001	182,793	0.80
3/4/2001	190,900	1.07
3/16/2001	2,721	0.31
4/1/2001	5,674	0.12
4/3/2001	1,474	0.18
4/10/2001	5,558	0.00
5/7/2001	186,251	0.80
5/8/2001	2,949	0.06
5/11/2001	22,811	0.22
5/18/2001	191	0.47
5/21/2001	71,997	1.23
5/22/2001	13,105	0.13
5/26/2001	20,119	0.52
5/27/2001	4,930	0.02
6/2/2001	3,455	0.18
6/4/2001	12,633	0.50
6/7/2001	34,570	0.15
6/15/2001	30,526	0.02
6/20/2001	31,216	0.00
6/21/2001	3,547	0.00
6/29/2001	12,230	0.01

**Table 6.** Flow Data CSO 140 - 7/1/00 through 6/30/01 --Raiuage 6

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 11.9 MG/YR		
9/24/2000	55,900	0.92
9/25/2000	612,194	1.36
12/16/2000	2,226,174	2.83
12/17/2000	255,176	0.00
3/4/2001	122,219	1.07
5/7/2001	869,361	0.80
5/8/2001	5,598	0.06

**Table 7. Flow Data CSO 151 - 7/1/00 through 6/30/01 --Raianguage 19**

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 61.4 MG/YR		
7/4/2000	205,863	0.21
7/11/2000	20,376	0.16
7/18/2000	58,502	0.60
7/27/2000	74,138	0.00
7/28/2000	19,251	0.64
7/29/2000	70,676	0.60
7/31/2000	35,883	0.04
8/5/2000	3,512	0.23
8/8/2000	101,178	0.51
8/18/2000	732,356	1.95
8/23/2000	380,792	0.43
8/24/2000	307,538	0.39
9/2/2000	187,702	1.19
9/4/2000	10,484	0.08
9/10/2000	31,537	0.08
9/11/2000	530,822	1.00
9/12/2000	96,739	0.12
9/16/2000	11,062	0.00
9/20/2000	126,721	0.24
9/21/2000	50,889	0.13
9/24/2000	569,780	0.70
9/25/2000	1,912,437	1.56
10/5/2000	78,698	0.31
11/6/2000	170,065	0.41
11/8/2000	52,664	0.38
11/9/2000	120,119	0.60
11/25/2000	407,952	1.14
1/18/2001	71,395	0.28
1/19/2001	64,856	0.20
1/29/2001	144,778	0.38
1/30/2001	30,309	0.10
1/31/2001	3,300	0.01
2/9/2001	135,557	0.53
2/14/2001	13,580	0.22
2/15/2001	237,334	0.99
2/16/2001	123,826	0.52
2/25/2001	220,860	0.86
3/4/2001	992,088	1.14
3/13/2001	16,945	0.13
3/15/2001	6,646	0.10
3/16/2001	30,321	0.21
3/20/2001	32,812	0.21
3/30/2001	36,739	0.29
4/1/2001	50,849	0.19
4/4-4/11	Meter Failure	
4/19/2001	112,011	0.00
4/20/2001	889,333	0.08
4/23/2001	14,782	0.20
5/7/2001	591,748	1.65
5/8/2001	111,268	0.11
5/11/2001	187,818	0.88
5/12/2001	29,975	0.04
5/18/2001	48,241	0.27
5/21/2001	355,517	0.77

**Table 7. Flow Data CSO 151 - 7/1/00 through 6/30/01 --Raianguage 19 - Cont.**

Date	Flow Monitor Overflow Quantity (Gallons)	Rainfall Total (inches)
AVERAGE ANNUAL OVERFLOW 61.4 MG/YR		
5/22/2001	113,544	0.23
5/26/2001	170,467	0.45
5/31/2001	23,210	0.24
6/2/2001	57,336	0.05
6/4/2001	75,048	0.48
6/7/2001	48,838	0.14
6/10/2001	147,786	0.00
6/15/2001	239,697	0.74
6/20/2001	129,775	0.09
6/21/2001	23,227	0.44
6/29/2001	50,228	0.71

**Table 8.** Flow Data CSO 152 - 7/1/00 through 6/30/01 --Raianguage 19

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 42.1 MG/YR		
7/4/2000	279,267	0.21
7/11/2000	27,132	0.16
7/18/2000	77,701	0.60
7/27/2000	124,669	0.00
7/28/2000	27,966	0.64
7/29/2000	93,943	0.60
7/31/2000	26,888	0.04
8/5/2000	8,326	0.23
8/8/2000	134,496	0.51
8/18/2000	1,085,581	1.95
8/23/2000	607,354	0.43
8/24/2000	524,320	0.39
9/2/2000	249,207	1.19
9/4/2000	23,360	0.08
9/10/2000	48,033	0.08
9/11/2000	900,839	1.00
9/12/2000	128,507	0.12
9/20/2000	256,722	0.24
9/21/2000	133,222	0.13
9/24/2000	990,458	0.70
9/25/2000	3,706,055	1.56
10/5/2000	905,427	0.31
11/6/2000	972,344	0.41
11/8/2000	569,604	0.38
11/9/2000	2,035,048	0.60
11/13/2000	14,534	0.08
11/25/2000	2,643,140	1.14
12/11/2000	897,272	0.45
12/13/2000	113,978	0.40
12/16/2000	8,486,585	2.58
1/18/2001	351,953	0.28
1/19/2001	139,651	0.20
1/29/2001	796,744	0.38
1/30/2001	95,838	0.10
2/9/2001	1,053,765	0.53
2/14/2001	176,471	0.22
2/15/2001	2,059,649	0.99
2/16/2001	1,733,510	0.52
2/25/2001	1,538,248	0.86
2/28/2001	773	0.00
3/1/2001	3,389	0.09
3/4/2001	3,243,588	1.14
3/13/2001	16,524	0.13
3/15/2001	52,831	0.10
3/16/2001	200,976	0.21
3/20/2001	241,872	0.21
3/28/2001	49,378	0.00
3/29/2001	8,541	0.02
3/30/2001	318,331	0.29
4/1/2001	197,513	0.19
4/15/2001	13,954	0.15
4/20/2001	7,721	0.08
4/23/2001	238,509	0.20
5/7/2001	3,061,889	1.65

**Table 8.** Flow Data CSO 152 - 7/1/00 through 6/30/01 --Raianguage 19 - Cont.

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 42.1 MG/YR		
5/8/2001	188,264	0.11
5/11/2001	573,328	0.88
5/12/2001	49,071	0.04
5/18/2001	164,680	0.27
5/21/2001	1,855,338	0.77
5/22/2001	436,585	0.23
5/24/2001	20,286	0.18
5/26/2001	875,668	0.45
5/27/2001	10,741	0.02
5/31/2001	162,052	0.24
6/2/2001	151,805	0.05
6/4/2001	203,628	0.48
6/7/2001	142,151	0.14
6/15/2001	525,426	0.74
6/20/2001	252,028	0.09
6/21/2001	36,131	0.44
6/29/2001	117,034	0.71

**Table 9.** Flow Data CSO 153 - 7/1/00 through 6/30/01 --Raianguage 19

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 10.6 MG/YR		
2/15/2001	11,645	0.99
5/7/2001	654,701	1.65
5/8/2001	8,790	0.11

**Table 10.** Flow Data CSO 206 - 7/1/00 through 6/30/01 --Raiuage 6

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 73.6 MG/YR		
7/4/2000	29,540	0.06
7/5/2000	259,633	0.57
7/11/2000	67,751	0.17
7/13/2000	908,767	1.04
7/19/2000	297,933	0.55
7/28/2000	38,344	0.24
7/29/2001	233,485	0.51
8/5/2000	19,117	0.09
8/8/2000	259,130	0.44
8/18/2000	1,566,993	1.89
8/23/2000	183,237	0.44
8/24/2000	205,909	0.50
8/27/2000	5,684	0.05
9/2/2000	1,505,963	1.34
9/11/2000	725,214	0.92
9/12/2000	19,743	0.11
9/20/2000	79,416	0.23
9/21/2000	37,336	0.13
9/24/2000	556,986	0.92
9/25/2000	2,104,910	1.36
10/5/2000	195,293	0.38
10/6/2000	120,962	0.06
11/6/2000	308,916	0.43
11/8/2000	164,920	0.39
11/9/2000	654,667	0.56
11/25/2000	1,218,242	1.08
12/11/2000	432,079	0.44
12/13/2000	620,412	0.04
12/16/2000	6,187,787	2.83
1/18/2001	94,615	0.26
1/19/2001	85,932	0.16
1/29/2001	191,793	0.37
1/30/2001	40,532	0.10
1/31/2001	4,365	0.01
2/9/2001	179,638	0.53
2/14/2001	17,952	0.23
2/15/2001	314,549	0.95
2/16/2001	164,055	0.53
2/25/2001	292,754	0.80
3/4/2001	1,316,002	1.07
3/13/2001	22,429	0.14
3/15/2001	8,793	0.14
3/16/2001	40,177	0.31
3/20/2001	43,460	0.22
3/30/2001	48,642	0.31
4/1/2001	67,375	0.12
4/20/2001	1,032,682	0.05
4/23/2001	19,572	0.01
5/7/2001	784,736	0.80
5/8/2001	147,376	0.06
5/11/2001	249,019	0.22
5/12/2001	39,716	0.02
5/18/2001	63,857	0.47
5/21/2001	471,387	1.23

**Table 10.** Flow Data CSO 206 - 7/1/00 through 6/30/01 --Raiuage 6 - Cont.

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 73.6 MG/YR		
5/22/2001	150,452	0.13
5/26/2001	225,866	0.52
5/31/2001	30,743	0.22
6/2/2001	76,030	0.18
6/4/2001	99,475	0.50
6/7/2001	64,630	0.15
6/10/2001	195,520	0.00
6/15/2001	317,767	0.02
6/20/2001	171,979	0.00
6/21/2001	30,754	0.00
6/29/2001	66,550	0.01

**Table 11.** Flow Data CSO 209 - 7/1/00 through 6/30/01 --Rainguage 6

<b>Date</b>	<b>Flow Monitor Overflow Quantity (Gallons)</b>	<b>Rainfall Total (inches)</b>
AVERAGE ANNUAL OVERFLOW 7.9 MG/YR		
8/18/2000	16,622	1.89
9/25/2000	25,828	1.36
11/6/2001	23,489	0.43
11/8/2001	6,494	0.39
11/9/2001	35,396	0.56
12/11-1/1	Meter Failure	
2/15/2001	12,615	0.95
5/7/2001	738,029	0.80
5/8/2001	9,521	0.06