QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL (corrected)	ANALYST	
12-15-86	SD-42		TOM	06-19	250	14 1266	0752	46.4	186.0	B	23	0789	79 0788	0.2	C.S.	7.3
	SD-43			40		18 8233	8188	4.5	18.0		24	3377	79 3305	7.3		7.3
	SD-44			48		17 3555	3353	0.2	0.8	=1	25	3823	79 3829	0		7.1
	SD-45			41		4182	4177	0.5	2.0		26	9758	78 9760	0		7.4
	SD-46			06-15		17 4922	4915	0.7	2.8	=3	27	3621	79 3617	0.5		7.4
	SD-47			06-16		16 6823	6820	0.3	1.2	=1	28	6486	78 6490	0		7.4
	SD-48			06-12		18 2953	2830	2.3	9.2	=9	2	5555	68 5552	0.4		7.5
	SD-49			44A		15 1839	1772	6.7	268		10	1204	78 1019	18.6		7.4
	SD-61			C-4		18 3673	3605	6.8	27.2	=27	11	9653	78 9653	0		7.2
	SD-63			06-9		18 9296	9283	1.3	5.2	=5	30		78 3661		CS	6.9
	SD-64			C-1		16 5310	5307	0.3	1.2	=1	2		68 4864			7.0
	SD-65			06-11	250	18 2773	2753	2.0	8.0		5		68 4106			7.5
	SD-															
	SD-														LAB	
	SD-														ERROR	
	SD-															
	SD-															
	SD-															
	SD-															

RUN 12-22-86

RUN 1-12-87

		S.D.	W'	D'	FLOW (F.P.S.)	G.P.D.
12-8-86		89	DRY			
	X	90	3	0.5	1	874,800
		36	DRY			
		37	DRY			
		38	DRY			
		50	FILLED IN			
		51	DRY			
	X	52	3	0.5	1	874,800
		53	DRY			
	X	54	2	0.5	1	583,200
	X	55	1	0.083	1	48,406
		56	NO FLOW			
	X	57	3	1	5	8,748,000
		58	NO FLOW			
12-15-86		60	DRY			
		61	20	3	0.2	6,998,400
		62	DRY			
		49	12	3	1	20,995,200
		65	1	0.083	0.1	4,841
		64	20	4	0.1	4,665,600
		63	2	1	2	2,332,800
		48	4	1	2	~~4,665,600~~
		47	2	0.5	0.5	~~291,600~~
		46	3	0.5	0.333	~~291,308~~
		45	3	0.5	1	~~874,800~~
		42	3	0.5	1	~~874,800~~
		43	0.5	0.333	1	~~9,710~~
		44	6	0.5	1	~~1,749,600~~
12-8-86	X	59	12	2	TIDAL	✓

STORM DRAINS

4TH QUARTER, 1986

Th Barker

	S.D.	W'	D'	FLOW (F.P.S.)	G.P.D.	
10-28-86	72	3	1	0.2	349,920	
12-4-86	81	6	2	1	6,998,400	
	82	12	1.5	1	10,497,600	
	83	1	0.5	5	1,458,000	
	84	0.5	0.5	1	145,800	
3	85	NO FLOW				
	86	12	2	TIDAL		
	87	6	2	0.2	1,399,680	
	88	DRY				
	67	2	1	1	1,166,400	
2	68	2	1	0.333	388,411.	
	69	2	0.5	1	583,200	
	~~26~~	~~1~~	~~0.25~~	~~1~~	~~145,800~~	
	25	NO FLOW				
	24	NO FLOW				
	23	DRY				
	66	DRY				
	22	NO FLOW				
	21	DRY				
	20	4	1	0.1	233,280	
	27	0.5	0.083	5	121,014	
1-2-4	26	1	0.25	1	145,800	
	28	3	1	0.1	174,960	
1	30	3	0.167	1	292,183.	✓
	31	NO FLOW				
	32	75	5	0.25	54,675,000	✓
	39	DRY				
	40	3	0.5	1	874,800	
	41	3	1	1	1,749,600	
12-8-86	73	DRY				
X	74	1	0.167	1	97,394	
	75	DRY				
	76	DRY				
	77	DRY				
	78	DRY				
	79	DRY				
	80	DRY				
X	33	3	1	1	1,749,600	
	~~34~~	DRY				
	35	DRY				
	30-32					

29
38
67
27
94

29
27
46

FLOW
18
16
34

BIOLOGICAL ANALYSIS OF RIVER WATER
MCBCL 11330/6 (REV 8-77)

STORM DRAINS

DATE COLLECTED 12-4-86

STATION NO.	TIME	FECAL COLIFORM ml SAMPLE	FECAL COLIFORM COUNT/ 100 ml	pH	TEMP C.	DO mg/l	DO_5 mg/l	BOD_5 mg/l	SOLIDS ~~SALINITY~~ %	OIL & GREASE FLASK OIL & GREASE	OIL & GREASE FLASK WT.	OIL & GREASE OIL & GREASE
20				6.9					5	.9415	69 .9412	0.3
26				7.1					0	.0788	79 .0785	0.3
27				7.2					1	.4307	68 .4319	-0
28				9.0					8	.5006	78 .5018	-0
30				6.8					2	Na_2SO_4 IN	FLASK	LAB ERROR
32				6.6					5	Na_2SO_4 IN	FLASK	LAB ERROR
40				7.8					6	78 .8637	.8649	-0
41				7.9					0	.1006	78 .1010	-0
67				7.3					15	.9728	78 .9649	7.9
68				7.2					1	8376	78 8381	0 add 0.3
69				6.7					61	3508	78 .3495	1.6 corrected
81				6.8					5	4306	68 .4294	1.5
82				6.9					10	5005	78 4996	1.2
83				7.4					0	6298	68 6286	0.7
84				7.1					10	9651	68 9395	25.9
86				6.6					6	0781	79 .0778	0.6

BIOLOGICAL ANALYSIS OF RIVER WATER
MCBCL 11330/6 (REV 8-77)

DATE COLLECTED 12-4-86

		FECAL COLIFORM								OIL & GREASE		
STATION NO.	TIME	ml SAMPLE	COUNT/ 100 ml	pH	TEMP C.	DO mg/l	DO_5 mg/l	BOD_5 mg/l	SALINITY % (SOLIDS)	FLASK OIL & GREASE	FLASK WT.	OIL & GREASE
87				6.9					6	9706	7.8 .1011	1.6 some corrected

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

3.4
1.8

12-8-86

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL (CORRECTED)	ANALYST	pH
12-8-86	SD-30			06-3	250	1320	1313	0.7	2.8	=B3	28	6477	78 6475	0	C.S. 12/10	7.5
–	SD-32			37		6283	6278	0.5	2.0		12	3801	78 3782	0.3	–	7.4
–	SD-33			C-4		3606	3603	0.3	1.2	=1	17	69 5296	5291	0	–	7.5
–	SD-52			06-11		2757	2754	0.3	1.2	=1	11	9646	9635	0	–	7.2
–	SD-54			NH-1		6306	6303	0.3	1.2	=1		10777	79 0775	0		7.1
–	SD-55			06-9		9291	9281	1.0	4.0			3297	79 3285	0.9		6.4
–	SD-57			06-2		2430	2408	2.2	8.8	=9		3812	78 3806	0.3		8.6
–	SD-59			06-16		6853	6821	3.2	12.8	=13		9759	78 9748	0.8		7.7
	SD-74			C-1		5316	5310	0.6	2.4	=2		3619	79 3606	2.0		7.5
–	SD-90			44A	250	1780	1778	0.2	0.8	=1		6482	78 6477	0.2		6.7
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

RETEST
RETEST

WASTE TREATMENT LABORATORY WORKSHEET
MCBCL 11345/5 (REV. 11-85)

Collected 12-4-86

	VERITIFED WINKLER	OVEN TEMP °	DATE 12-5-86

BOD ELEMENT 00310

PLANT		#	DO_1	DO_5	DEP	BOD mg/l	%
HP	R	20					
	T	26					
TT	R	27					
	T	28					
CG	R	30					
	T	32					
CJ	R	40					
	T	41					
OB	R	67					
	T	68					
CHB	R	69					
	T	81					
RR	R	82					
	T	83					
DUP	R	84					
	T	86					
STD		87					
BLK	A / B						

SUSPENDED SOLIDS ELEMENT C0530

#	DISH & SOLID	DISH	SOLID	VOLUME	SOLIDS mg/l	%
NH-3	16/ 2479	2466	1.3	250	5	
44-A	15/ 1766	1770	-0.4	250	-2	
C-1	16/ 5303	5303	-0.0	250	1	
OG-17	18/ 2349	2329	2.0		8	
OG-3	17/ 1309	1305	0.4		2	
C-4	16/ 3619	3606	1.3		5	
NH-1	19/ 6315	6300	1.5		6	
OG-2	17/ 2400	2406	-0.6		-2 =0	
OG-20	19/ 0836	0792	3.8		15	
OG-9	18/ 9288	9287	0.1		1	
OG-11	18/ 2906	2753	15.3		61	
OG-10	16/ 5940	5927	1.3		5	
NH-1	15/ 9290	9265	2.5		10	
OG-16	16/ 6813	6817	-0.4		-2 =0	
C-8	15/ 4233	4209	2.4		10	
OG-13	18/ 0133	0119	1.4		6	
OG-7	14/ 9182	9177	1.5	250	6	
			4			

COLIFORM

DIL	TOTAL MFC/100 ML	FECAL MFC/100 ML

REMARKS

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET 9-24-86

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
59	SD-			NH-1	300	15/9295	9225	6.6			23	69/0775	0774	0.1	0.0	7.7
61	SD-			NH-3	250	16/2465	2459	2.4			17	68/5310	5289	2.1	0.0	7.4
HOLE #1	SD-				750						24	5122	3288	0.1834	.1801	
HOLE #1	SD-				250						13	6582	6277	0.0305	27.2	
HOLE #2	SD-				750						12/16	68/6366	3785	0.2581	.2548	
	SD-										BLK	9435	9402	3.3		
	SD-										STD	1543	1212	33.1		
	SD-											85% RECOVERY				
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

6285

STORM DRAIN REPORT

DATE AUG. 27, 1986 COLLECTOR TOM & MARTY

STORM DRAIN (Number)	AVERAGE DEPTH (in Feet)	AVERAGE WIDTH (in Feet)	VELOCITY (in Ft. per Second)	VOLUME * (Gals.per Day)
58	NO FLOW			
59	~~TIDEAL~~ TIDAL			
60	DRY			
61	3'	20'	1' 5 SEC.	6,998,400

* To compute:

Volume = AD X AW X F X 583,200 - Gals. per day

455646

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
24 July	SD-	72		OG-16	900	16 6810	6817	0	0		25	3823	19 3832	-0.9	0.0	7.3
"	SD-	73		OG-14	130	18 2111	2053	58	446.2	44.6	31	8395	78 8406	-1.1	0.0	8.2
"	SD-	74		OG-3	180	17 1358	1314	44	244.4	24.4	5	4328	68 4328	0.0	0.0	8.1
"	SD-	75		OG-17	140	18 2386	2335	51	364.3	36.4	11	9663	78 9670	-0.7	0.0	8.1
	SD-										BLK.	1028	78 1030	-0.2	0.0	
	SD-										STD.	1545	79 1218	327	93% Recovery	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

out 12:40

Storm Drain Collection 7-24-86 ThB

SD No		WIDTH	DEPTH	FLOW (F.P.S.)	Volume	pH
70	✓	Dry				
71		Dry				
72	✓	1'	3"	1'/s	874800	7.3
73	✓	TIDAL			NA	8.2
74	✓	TIDAL			NA	8.1
75	✓	TIDAL			NA	8.1
76	✓	Dry				
77	✓	Dry				
78	✓	NO FLOW				
79	✓	Dry				
80	✓	Dry				

Storm Drains, 14 July 86 Poole & Barber

S.D. No.	Width	Depth	Flow	pH
20	NO FLOW			
21	DRY			
22	DRY			
23	DRY			
24	NO FLOW			
25	DRY			
26	NO FLOW			
66	DRY			

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

17 July 86 DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	pH
46	SD-			Blank	40	16/4287	16/4235	52	1300		6	5030	4985	4.5	3.6	7.7
47	SD-			BLANK	750	18/3928	18/3923	.5	.67	=0.7	28	6491	6472	1.9	0.0	8.2
48	SD-			C-8	200	15/4213	15/4219	0	0		32	8638	8619	1.9	0.0	7.8
49	SD-			44-A	200	15/1776	15/1784	0	0		5	4315	4296	1.9	0.0	7.4
52	SD-			OG-7	450	14/9189	14/9186	.3	.67	=.7	5	4315	68/4322	-0.7	0.0	7.0
54	SD-			OG-14	300	18/2060	18/2063	0	0		27	3617	78/3624	0.7	0.0	7.2
55	SD-			OG-3	250	17/1361	17/1350	11	44		32	8637	78/8648	-1.1	0.0	7.6
57	SD-			C-2	400	17/3356	17/3351	.5	12.5	=1.3	11	9657	78/9657	0.0	0.0	8.1
62	SD-			OG-16	200	16/6825	16/6836	0	0		28	6492	78/6492	0.0	0.0	7.3
65	SD-			☒ Blank	785	16/9007	16/8987	20	25.5	=2.6	31	8387	78/8399	-1.2	0.0	8.4
	SD-										0 BLK	1024	18/1021	0.3		
	SD-										1 STD	1550	19/1220	33.0	93%	Recovery
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

CORRECTED

STORM DRAIN REPORT

DATE 7-17-86 COLLECTOR TOM & MARTY

STORM DRAIN (Number)	AVERAGE DEPTH (in Feet)	AVERAGE WIDTH (in Feet)	VELOCITY (in Ft. per Second)	VOLUME * (Gals. per Day)
49	1'	3'	0.1'/sec	174,960
48	1'	3'	1.25'/sec.	2,187,000
62	0.5'	2'	1'/sec.	583,200
65	1'	1	1'/sec	583,200
47	1'	3'	1'/sec.	1,749,600
46	3"	3'	1'/sec	437,400
50 — Dry				
51 — Dry				
52	3"	6"	1'/sec.	72,900
53 — NO FLOW				
54	2"	4"	1'/sec	32,400
55	1"	6"	1/sec	291,600
56 — Dry				
57	1'	3'	1/5 sec	874,800

* To compute:

Volume = AD X AW X F X 583,200 - Gals. per day

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
16 July 86	SD-									L						
32	SD-			C-1	200	16/5307	16/5302	0.5	2.5		5	4310	68/4285	2.5	0.6	7.2
33	SD-			NH-1	500	15/9312	15/9262	5.0	10.0		31	8384	78/8370	1.4	0.0	7.6
35	SD-			C-6	All 600	16/3285	16/3260	2.5	4.3		25	3814	79/3796	1.8	0.0	7.8
40	SD-			OG-12	250	18/2834	18/2829	0.5	2.0		30	3508	78/3488	2.0	0.1	7.7
41	SD-			OG-20	All 700	19/0777	19/0778	0.0	0.0		27	3620	3603	1.7	0.0	7.9
42	SD-			OG-13	400	18/0223	18/0107	1.6	4.0		6	5005	4996	0.9	0.0	7.7
44	SD-			C-4	250	16/3648	16/3596	5.2	20.8		30	3507	78/3460	4.7	2.8	7.3
45	SD-			OG-11	300	18/2743	18/2741	0.3	1.0		25	3820	79/3798	2.2	0.3	7.4
63	SD-			OG-9	160	18/9271	18/9263	0.8	5.0	18 July	11	9650	78/9584	6.6	4.7	7.1
64	SD-			41	all 950	17/4193	17/4173	2.0	2.0		31	8392	78/8323	6.9	5.0	7.2
90	SD-			OG-2	200	17/2397	17/2395	0.2	1.0		27	3618	74/3565	5.3	3.4	6.7
	SD-										BLK	1021	1002	1.9		
	SD-										STD.	1521	79/1179	342	92% RECOVERY	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

STORM DRAIN REPORT

DATE 7-16-86 COLLECTOR TOM & MARTY

STORM DRAIN (Number)	AVERAGE DEPTH (in Feet)	AVERAGE WIDTH (in Feet)	VELOCITY (in Ft. per Second)	VOLUME * (Gals.per Day)
31	NO FLOW			
32	5'	75'	1'/SEC.	218,700,000
39	DRY			
40	4"	1'	1'/SEC.	194,400
41	3" ~~1.5'~~	1.5'	3'/SEC.	218,700
43	NO FLOW			
42	4"	1.5'	1'/SEC	291,600
44	6"	3'	1'/SEC.	874,800
89	NO FLOW			
90	4"	4"	.10'/SEC.	6,480
37	DRY			
36	NO FLOW			
38	DRY			
35	1"	2"	1'/SEC	8,100
34	DRY			
33	1"	3'	1'/SEC	145,800
63	1'	3'	1'/SEC.	1,749,600
64	4'	20'	0.1'/SEC	4,665,600
45	3"	5'	1/SEC.	729,000

* To compute:

Volume = AD X AW X F X 583,200 - Gals. per day

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

7-15-86

BLK 0.7
STD 27.2
76% RECOVERY
TNB

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
7-15-86	SD-30			OG-15	100	17/4941	17/4919	22	220.		30	6468	6475	-0.7	0.0	5.5
	SD-67			NH 2	800	16/1825	16/1821	.4	.5		67	4996	4996	0.0	0.0	8.4
	SD-68			NH-1	500	17/6324	17/6308	1.6	3.2		68	8624	8624	0.0	0.0	7.8
	SD-81			OG-10	180	16/5922	16/5920	.2	1.1		81	9632	9640	-0.8	0.0	6.7
7-17-86	SD-82			NH-3	250	16/2455	16/2459	-0	0	7/17/86	32	8629	78/8597	3.2	1.3	7.2
	SD-86			OG-19	150	19/0766	19/0760	.6	4.0		11	9722	78/9603	1.9	0.0	7.1
	SD-88			OG-17	200	18/2338	18/2338	-0	0		28	6480	78/6459	2.1	0.2	7.7
	SD-												68/4285			
	SD-										BLK	1.9				
	SD-										STD	29.9		80%	RECOVERY	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

Storm Drains 15 July 86

Poole, Martin, Barbee

S.D. No		Width	Depth	Flow (feet per sec.)	Volume
81		6'	1'	1'/sec	3,499,200
82		6'	1'	.05'/SEC.	1,749,600
83	DRY				
84	DRY				
85	DRY				
86		6'	6"	1' SEC.	1,749,600
87	DRY				
88		6'	6"	.10' SEC.	174,960
68		6'	1'	1' SEC.	3,499,200
67		3'	6"	.50' SEC.	437,400
69	DRY				
27	DRY				
28	NO FLOW				
~~29~~	~~[illegible]~~	(NO LONGER EXISTS)			
30	~~[illegible]~~	2'	1'	1'/SEC	1,166,400

6285

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

6/9/86 DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	pH
40	SD-	58,320	TLB	40	200	18/8231	14/8188	4.3			21	1678	79/1670	0.8	0.1	7.8
41	SD-	583,200		NH-1	700	17/6300	17/6289	1.1			23	0780	79/0768	1.2	0.5	8.0
42	SD-	1,166,400		C-8	230	15/4265	15/4204	6.1	26.5		16	9413	68/9396	1.7	1.0	8.0
43	SD-	291,600		OG-7	140	14/9244	14/9169	7.5			17	5294	69/5291	0.3	0.0	7.2
44	SD-	1,749,600		OG-19	130	19/0800	19/0747	5.3	40.8		12	3950	78/3784	166	15.9	7.0
59	SD-	TIDAL		OG-16	200	16/6855	16/6819	3.6			✓13	68/6275	68/6260	1.5/1.1	1.1	7.6
61	SD-	41,990,400		OG-15	80	17/4986	17/4903	8.3			✓16	68/9394	68/9388	0.6/0.2	0.2	7.7
65	SD-	48,600		OG-14	120	18/2096	18/2041	5.5			✓15	78/1333	78/1325	0.8/0.4	0.4	7.7
(6-18) 33	SD-	1,749,600		C-9	500	16/5400	16/5391	0.9	2		✓12	78/3778	78/3763	1.5/1.1	1.1	7.5
~~OB STP~~	SD-										~~✓21~~	~~79/1664~~	~~79/1667~~	~~-0.3/0~~	0	
~~CHB STP~~	SD-										~~✓23~~	~~79/0773~~	~~79/0770~~	~~0.3/0~~	0	
~~RR STP~~	SD-										~~✓24~~	~~79/3270~~	~~79/3274~~	~~-0.4/0~~	0	
	SD-									Blank	✓4	69/8112	69/8108	0.4/0	0	
	SD-									2ml STD	✓9	78/4712	78/4456	25.6/	25.2	~~25.2~~/35.0 = 72 % Recovery
	SD-									DCY BLANK	26	78/9728	78/9733	-0.5		
	SD-															
	SD-															
	SD-															
	SD-															

CORRECTED

CORRECTED 28.7 82%
BLK 0.7 RECOVERY
STD 28.4

TLB

6-19

6285

Storm Drains 9 June 86 Martin & Barbre

SD No.	Width	Depth	Flow	GPD	pH
65 ✓	.1'	1"	1'/sec	48,600	
59 ✓	TIDAL			TIDAL	
61 ✓	12'	6'	1'/sec	41,990,400	
39 ✓	Dry			—	
40 ✓	2'	3"	1'/5 sec	58,320	
41 ✓	2'	6"	1'/sec	583,200	
44 ✓	6'	6"	1'/sec	1,749,600	
42 ✓	4'	6"	1'/sec	1,166,400	
43 ✓	3'	2"	1'/sec.	291600	
33 (17 June) ✓	3'	1'	1'/sec.	1,749,600	

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	B ANALYST	
6-4-86	SD-73	TIDAL	THB	NH-2	140	16/1881	16/1822	5.9			21	1683	79/1638	4.5	CONTACTED 2.3	8.1
6-4	SD-74	4,860		40	100	18/8234	18/8193	4.1			15	1347	77/1317	3.0	0.8	7.6
6-4	SD-75	24,300		OG-19	15	19/1270	19/0752	51.8			17	5309	68/5271	3.8	1.6	7.8
6-5	SD-72	388,800		C-4	250	16/3637	16/3583	5.4			16	9418	68/9390	2.8	0.6	7.4
6-5	SD-52	TIDAL		C-9	250	16/5389	16/5388	0.1			23	6790	79/6770	2.0	0.0	7.8
6-5	SD-54	24300		OG-13	250	18/0121	18/0108	1.3			12	3807	78/3772	3.5	1.3	7.2
6-5	SD-55	388,800		OG-11	250	18/2743	18/2741	0.2			13	6383	68/6271	1.2	0.0	7.7
6-5	SD-57	583,200		OG-12	250	18/2814	18/2814	0			9	4522	78/4479	4.3	2.1	8.3
	SD-										BLK. 4	8147	67/8125	2.2		
	SD-										STD. 24	3567	79/3283	28.4	7570	
	SD-														RECOVERY	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

Storm Drain Collection 4 June 86

S.D. #	W.	D.	Velocity	G.P.D	pH
76	Dry	(NON EXISTENT ANY LONGER)			–
77	Dry				–
73	TIDAL			TIDAL	8.1
74	1'	1"	1/10 FPS	4,860	7.6
75	1'	½"	1 F.P.S.	24,300	7.8

Washing amtracks and driving them thru the ditch, flowing them 200-300 yds in ditch. empty into CH Bay. mixing zone is about 6-10' circle.

78	NO FLOW				–

— o —

5 June 86

72	2'	4"	1'/sec.	388,800	7.4
71	Dry				
70	Dry				
79	Dry				
80	Dry				
62	NO FLOW				
37	Dry				
36	NO FLOW				
38	DRY				
90	NO FLOW				
89	NO FLOW				
50	Dry (no longer exists)				
51	Dry				

5 June 86, THB

S.D.	W	D	Flow	GPD	pH
52	25'	4'	TIDAL		7.8
53	NO FLOW				
54	6"	2"	1'/sec.	24,300	7.2
55	2'	4"	1'/sec.	388,800	7.7
56	Dry				
57	2'	6"	1'/sec		8.3
58	Dry				
60	Dry				

NOTE. BLK & STD FOR 20, 26, 28 ARE ON RIVER WATER SHEET.

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	B ANALYST	pH
5-28-86	SD-20	2,332,800		9175 OG-7	240	11 9187	14 9175	1.2	5		13	6283	68 6264	1.9	CORRECTED BLK 2.9 0.0	7.5
	SD-26	48,560		OG-15	800	17 4922	17 4900	2.2	3		27	3609	79 3591	1.8	0.0	7.2
	SD-28	29,160		OG-10	720	16 5942	16 5926	1.6	2		9	4493	78 4473	2.0	0.0	7.3
	SD-35	7,987		NA-2	500	16 1884	16 1826	5.8	12		13	6282	68 6253	2.9	2.6	7.1
	SD-															
	SD-															
	SD-															
5-29-86	SD-	#32	TIDAL	OG-20	250	19 0811	17 0796	1.5	6		21	1669	79 1666	0.3	0.0	7.0
	SD-	67	874,800	41	250	17 4213	17 4177	3.6	14.4		16	9410	68 9384	2.6	2.3	8.0
	SD-	68	729,000	RED NH-1	250	6303	17 6296	7.0	28		4	8132	69 8107	2.5	2.2	7.7
	SD-	81	6,998,400	OG-9	250	18 9318	18 9277	4.1	16.4		17	5301	69 5270	3.1	2.8	7.7
	SD-	82	9,331,200	C-4	200	16 3629	16 3597	3.2	16		9	4546	78 4479	6.7	6.3	7.3
	SD-	83	145,800	OG-2	250	17 2413	17 2405	8.0	32		12	3795	78 3782	1.3	1.0	7.6
	SD-	86	TIDAL	OG-12	250	18 2838	18 2833	5.0	20		24	3304	79 3293	1.1	0.8	7.0
	SD-	87	TIDAL	BLACK NH-1	250	9281	15 9270	1.1	4		23	0797	79 0787	1.0	0.7	7.4
	SD-										BLK 75	1338	78 1335	0.3		
	SD-										STD. 26	9956	78 9743	21.3		
	SD-														61 70	
	SD-														RECOVERY	

6285

STORM DRAIN REPORT

DATE 5-28-86 COLLECTOR Poole, Martinez, Barber

pH	STORM DRAIN (Number)	AVERAGE DEPTH (in Feet)	AVERAGE WIDTH (in Feet)	VELOCITY (in Ft. per Second)	VOLUME * (Gals. per Day)
7.2	✓ 26	1'	1"	1	48,560
	25	Dry			
	24	No Flow			
	23	Dry			
	22	Dry.			
	66	Dry			
7.5	✓ 20	4'	1'	1'	2,332,800
	21	Dry			
	27	Dry			
7.3	✓ 28	3'	6"	1'/30sec	29,160
	34	Dry			
7.1	✓ 35	6"	1"	1'/30sec.	7,987

* To compute:

Volume = AD X AW X F X 583,200 - Gals. per day

Storm Drains 29 May 86 Poole, Martens, Barber

S.P.	W	D	F	Volume	pH
81	6'	1'	2'/sec	6,998,400	
82	1.6'	1'	1'/sec.	9,331,200	
83	1'	3"	1'/sec.	145,800	
84	NO FLOW				
85	Dry				
86	9'	1'	TIDAL	—	
88	Dry				
87	10'	2'	TIDAL	—	
68	2.5'	6"	1'/sec.	729,000	
67	3'	6"	1'/sec.	874,800	
69	NO FLOW				
29	no longer in existence				
30	inaccessible				
31	Dry				
32	30'	6'	~~1'/sec.~~ TIDAL	—	

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	mg. WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
19 May 86	SD-45	145,800	Poole Barbee	C-8	80	15/4244	15/4203	4.1	51	Barbee	12	3895	78/3770	1.9	B	7.6
	SD-47	87,480		NH-2	96	16/2238	16/2054	18.4	192		27	3605	79/3593	1.6		8.6
	SD-48	1,166,400		C-1	122	16/5304	16/5291	1.3	11		23	0771	79/0759	1.6		7.9
	SD-49	2,624,400		NH-3	250	16/2471	16/2455	1.6	6		15	1333	78/1328	0.9		7.6
	SD-63	145,800		40	415	18/8204	18/8190	1.4	3		9	4472	78/4472	0.4		7.4
	SD-64	17,496,000		OG-19	500	19/0760	19/0747	1.3	3		17	5286	69/5288	0.6		7.6
	SD-										BLK	-0.4				
	SD-										STD	21.1	60% RECOVERY			
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

6285

583,200

Storm Drain Collection 19 May 86 Poole & Barbee

S.D. #.	Width	Depth	Flow (f.p.s.)	VOLUME G.P.D.	pH
45	1'	3"	1'	145,800	7.6
46	Dry				–
47	3'	6"	0.1'	87,480	8.6
48	4'	6"	1'	1,166,400	7.9
49	3'	1'	1.5'	2,624,400	7.6
64	10'	3'	1'	17,496,000	7.4
63	1'	3"	1'	145,800	7.6

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET Collected: 3-13-86

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	pH THB
3-13-86	SD-34	291,600	THB, S.P.	06-15	500	17/4900	17/4910	0.0	0	B	27	79/3598	79/3588	1.0/0	THB	7.7
	SD-73	12,101		06-13	200	18/0151	18/0108	4.3	22		28	78/6470	78/6465	0.5/0		7.9
	SD-74	48,600		NH-3	250	16/2469	16/2457	1.2	5		30	78/3518	78/3477	4.1/3.0		7.1
	SD-78	218,700		06-9	250	18/9274	18/9272	0.2	8		31	78/8376	78/8364	1.2/0.1		7.0
	SD-79	19,421		40	250	18/8189	18/8183	0.6	2		32	78/8627	78/8608	1.9/0.8		7.7
	~~SD-~~ HP										~~8~~	~~78/8064~~	~~78/8032~~	~~3.2/2.1~~		
	~~SD-~~ TT										~~9~~	~~78/4506~~	~~78/4468~~	~~3.8/2.7~~		
	~~SD-~~ CG										~~10~~	~~78/1029~~	~~78/0994~~	~~3.5/2.4~~		
Blank	~~SD-~~									Blank	1	79/1173	79/1162	1.1/0		
2.0 ml. Std	~~SD-~~									Standard	7	79/1632	79/1345	28.7/35.6	= 81% RECOVERY	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

File - 6285

583,200

Storm Drains 3-13-86 TLB, SP

S.D.#		Width	Depth	Flow	GPD
35	✓	No FLOW			
34	✓	1'	6"	1'/sec	291,600
79		2'	4"	1'/20sec	19,421
80		DRY			
78		1.5'	6"	1'/2 sec.	218,700
77		DRY			
76		DRY			
75		DRY			
74	✓	1'	.083 1"	1'/sec	48,600
73	✓	3"	1"	1'/sec	12,101

10

10
9
14
33

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH THB
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
3-3-86	SD-67	69,984		06-9	250	9276	18 9274	0.2	0.8		10	78 1014	78 0991	2.3 / 1.5		7.3
	SD-68	1,154,736		48	250	3348	17 3345	1.3	5.2		26	78 9771	78 9734	3.7 / 3.9		7.1
	SD-69	1,166,400		06-16	250	6810	16 6806	0.4	1.6		25	79 3829	79 3832	0		6.7
	SD-72	23,328		06-12	250	2838	18 2835	0.3	1.2		31	78 8380	78 8362	1.8 / 1.0		7.0
INSERT	SD-81	2,916,000		41	250	4180	17 4178	0.2	0.8		28	78 6489	78 6471	1.8 / 1.0		6.5
	SD-82	699,840		06-3	250	1318	17 1312	0.6	2.4		32	78 8659	78 8620	3.9 / 3.1		7.0
	SD-83	15,396		06-15	250	4916	17 4912	0.4	1.6		23	79 0767	79 0765	0.2 / 0		7.4
	SD-86	874,800		C-4	250	3599	3598	0.1	0.4		27	79 3590	79 3598	0		7.0
	SD-87	583,200		C-10	250	5936	16 5930	0.6	2.4		21	78 1643	79 1660	0		6.8
	SD-									Blank	24	79 3296	79 3288	0.8 / 0		
	SD-									Std	30	78 3750	78 3550	20	56% RECOVERY	
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															

3750
3550
20.0

File
6285

Storm Drains 3/3/86 B/Poole

S.D. #	width	Depth		Flow	GPD
69	4'	6"	0.5	1'/sec.	1,166,400
67 ✓	4'	1'	1	1'/30 sec. (.03)	69,984
68	3'	8"	0.66	1'/sec.	1,154,736
81	5'	1'	1	1'/sec.	2,916,000
82	12'	1'	1	1'/10 sec.	699,840
83	6"	2"	0.16	1'/3 sec.	15,396
84	NO FLOW				
85	DRY				
86	3'	6"	0.5	1'/sec	874,800
88	DRY				
87	5'	1'	1	1'/5 sec.	583,200
72	~~2'~~	~~2"~~	0.16	1'/8 sec.	23,328
71	DRY				
70	DRY				

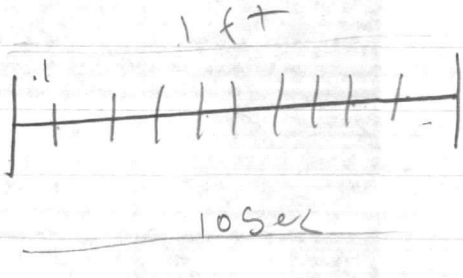
2ft x 0.16ft x .225 ft/sec x 583,200

14

$\frac{2''}{12''} = .16666$

12" into 2" = .16

1' in 8 seconds =



21 ✓

14

35

$\frac{2''}{12''} = .16666$

$\frac{6''}{12''} = 0.5$

$\frac{1}{8} = 0.125$

$\frac{1}{8}\overline{)1.000}$ = .125

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

50 = 50 zero

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS)							OIL AND GREASE					pH
				DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ANALYST	
2/5/86	SD-20	6,998,400	THB	C2/48	390	17 3360	17 3339	2.1	5	THB	3 30	3492	78 3487	0.5/0	C.S.	7.3
	SD-21	97,200		C4	250	16 3641	16 3606	3.5	14		4 21	1873	79 1857	1.6/0.8		7.1
	SD-23	12,150		C6	78	16 3360	16 3263	9.7	124		5 23	0826	79 0765	6.1/5.3		8.1
	SD-26	48,600		C8	820	15 4218	15 4216	0.2	0.2		6 26	9749	78 9720	2.9/2.1		7.3
	SD-27	36,450		OG-12	250	18 2848	18 2841	0.7	3		7 27	3598	79 3574	2.4/1.6		7.2
	SD-28	76,982		OG-3	500	17 1305	17 1302	0.3	1		8 28	6479	78 6456	2.3/1.5		8.5
	SD-31	194,400		OG-7	310	17 9213	14 9164	4.9	16		9 31	8379	78 8377	1.2/0.4		8.4
BLANK DW	SD-										1 25	3807	79 3799	8/0		
2ml OIL STD	SD-										2 22	0842	80 0706	13.6/35.6	38%	REC. 17.8 mg/l = 35.6
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
	SD-															
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FILE: 62B5

2-5-86 Storm Drains M & Thos

SD #	WIDTH	DEPTH	FLOW (FPS)	GPD
~~28~~	4'	4"	1'/10sec	76,982
~~27~~	6"	$\frac{1}{2}$"	3'/sec.	36,450
~~21~~	1'	2"	1'/sec	97,200
~~66~~	DRY			
~~22~~	DRY			
~~20~~	6'	1'	2'/sec	6,998,400
~~26~~	1'	2"	1'/2sec.	48,600
~~25~~	NO FLOW			
~~24~~	NO FLOW			
~~23~~	6"	$\frac{1}{2}$"	1'/sec	12,150
~~31~~	8"	6"	1'/sec.	194,400

.666 .5

.333

FLOW (GPD) = (AVERAGE WIDTH (FT.)) (AVE. DEPTH (FT)) (VELOCITY (FT. PER. SEC.)) (583,200)

QUALITY CONTROL LAB - STORM SEWER DISCHARGES - WORK SHEET

MCBCL 11345/7

DATE COLLECTED	STORM SEWER NUMBER	FLOW RATE GALLONS PER DAY	SAMPLE COLLECTOR	TOTAL SUSPENDED SOLIDS (TSS) DISH NUMBER	ml SAMPLE	DISH & SOLID	DISH	WEIGHT GAIN	TSS mg/l	ANALYST	OIL AND GREASE FLASK NUMBER	FLASK & OIL	FLASK	mg/l OIL	ThB ANALYST	pH
1-23-86	SD-32	15,746,400	ThB	13	350	18/0117	18/0112	0.5	14	BW	26	78/9747	78/9691	5.6/4.0		7.0
	SD-33	388800		19	500	19/0774	19/0766	0.8	2		30	78/3491	78/3432	5.9/4.3		7.4
	SD-48	1,399,680		3	200	17/1341	17/1334	0.7	4		31	78/8379	78/8310	6.9/5.3		7.1
	SD-49	3,149,280		15	250	17/4911	17/4905	0.6	2		29	78/0943	78/0887	5.6/4.0		7.1
	SD-52	97,200		7	500	14/9197	14/9189	0.8	2		27	79/3606	79/3571	3.5/1.9		6.8
	SD-54	24,300		20	250	19/0809	19/0801	0.8	3		28	78/6479	78/6446	3.3/1.7		6.9
	SD-55	24,300		C-1	400	16/5369	16/5315	5.4	14		21	79/1670	79/1639	3.1/1.5		6.9
	SD-57	174,960		C 2	500	17/3409	17/3356	5.3	11		24	79/3287	79/3265	2.5/0.9		7.5
	SD-59	1,749,600		C-4	500	16/3646	16/3644	0.2	0.4		32	78/8598	78/8603	1.6/0		6.9
	SD-									Blank	23	79/0769	79/0753	1.6/0		
	SD-									Standard	25	79/4077	79/3797	28/35.6	79% RECOVERY	2ml x 17.8 mg/ml =
	SD-61	20,995,200		C-6	250	16/3275	16/3268	0.7	3		30	78/3508	78/3498	1.0/0.1		7.3
	SD-63	1,166,400		C-8	400	15/4238	15/4213	2.5	6		29	78/0950	78/0951	0		6.6
	SD-64	29,160,000		12	300	18/2837	18/2834	0.3	1		23	79/0781	79/0780	0.1/0		6.8
	SD-65	12,150		14	500	18/2138	18/2050	8.8	18		21	79/1676	79/1679	0		8.0
	SD-90	14,580		16	500	16/6829	16/6823	0.6	1		28	78/6487	78/6484	0.3/0		5.8
	SD-									Blank	22	80/0709	80/0691	0.9/0		
	SD-									Standard	27	79/3929	79/3609	32/35.6	90% RECOVERY	
	SD-									Dry Blank	31	78/8379	78/8388			

1-27-86

6285

Storm Drains Martinez & Barbee 1-23-86

SD#	pH	(FT) WIDTH	(FT) DEPTH	(FPS) TO LOW	
89		~~DRY~~ NO FLOW			
90	5.8	1.5	2 inches	1FT/10SEC.	14580
36		~~DRY~~ NO FLOW			
37		~~DRY~~ NO FLOW			
38		~~DRY~~ NO FLOW			
50		FILLED IN			
51		~~DRY~~ NO FLOW			
52	6.8	1'	2 INCHES	1'/SEC	
53		DRY			
54	6.9	0.5	1 INCH	1'/SEC	
55	6.9	0.5	1 INCH	1'/SEC	
56		NO FLOW			
57	7.5	3'	6 INCHES	1'/5 Sec.	
58		NO FLOW			
59	6.9	3'	3'	1'/3 Sec.	
60		DRY			
61	7.3	12'	6'	1'/2 Sec.	
49	7.1	9'	3'	1'/5 Sec.	
48	7.1	6'	2'	1'/5 Sec.	
62		NO FLOW			
65	8.0	1'	1"	1'/4 Sec.	
64	6.8	10'	5'	1'/Sec	
63	6.6	10'	2'	1'/10 Sec	
33	7.4	2'	6"	2'/3 Sec.	
32	7.0	18'	3'	1'/2 Sec.	