First Quarter Report y 1 through March 31, 200

tted to EPA on April 27, 2006

sure that qualified personnel properly gather and evaluaters or persons who manage the system, or those person

Program

ship

n-Compliance With the Consent Decree

ibles tipulated Penalties

rflows (SSOs), Bypasses, Diversions, and Ef

ns

compliance with and activities related to impl Phase 2 CAP/ER, including: the status of con the schedules that have been established purs se projects; and schedule deadlines and miles rter and expected during the next Calendar Or compliance with and activities related to impl implementation of and compliance with the Pr the implementation of the Capacity Assurance rter, including the number of, and anticipated at have been authorized, by Sewerbasin, a des authorized and the number of credits earned ed for those projects, by Sewerbasin, and any r essential services; of any transfer of an ownership interest, opera of the Treatment Works, or any portion thereof of the status of compliance or non-compliance d, if applicable, the reasons for non-compliant are subject to stipulated penalties under Secti the development of those deliverables.

ols Program – Summary of implementation of

rance Program - Summarizes the status of the

wnership – Identifies any transfers of ownership trol of the treatment works, or any portion the and Non-Compliance with the Consent Decree iance with requirements of the Consent Decree is, Diversions, and Effluent Limit Violations – Bypasses, Diversions, and effluent limit violations.

Monitoring Data – Summarizes all sampling and the projected data collection for the first quant

DEC regarding EPA's comments on the Phase
0-day response to EPA's comments on the Pha

a system during the period of 2001-2004 with Long-Term List and to support future growth i PA on October 28, 2005. Comments were rece PA's letter, KUB submitted a 30-day response ised Phase 1 CAP/ER will be submitted to EP submitted to EPA within 12 months after EPA on April 30, 2008. ement Plan for FY 04/05 and FY 05/06 facility improvement projects included in the (4, to June 30, 2005) and FY 05/06 (July 1, 200 rious stages during the reporting period includ truction, and completion. Many of these project nd work is defined as the inspection (i.e. flow ke testing, etc.) and design phase of the project ay include manhole rehabilitation/replacement

t, and lower lateral rehabilitation/replacement.

ements or wet-weather storage. Each of these

CAP/ER.

a, subsequently, the Consent Decree. The obje

ility improvements needed to address the cond

he is to be inspected. Project includes inspections), design, and rehabilitation of lines requiring the lector Rehab (Mini-basin 10B1) – Assess an ately 16,400 lf of collector pipe. Condition As

y son Collector Rehab (Mini-basin 10C1) – As proximately 19,000 If of collector pipe. Condit is underway

estern Avenue and Third Creek Road during ra 1* - Find and design rehabilitation needs for call ely 7,900 lf of pipe). Project includes inspection

rage - Design 4.5 MG wet-weather storage tan

ns), design, and rehabilitation of lines requiring ent and preliminary design analysis is completed ture rehabilitation project. No construction is part in 11 - Find and design rehabilitation needs for 120,657.16. Project includes inspection (CCT)

ntrol sewer overflows near Walker Springs Puron is underway. Substantial completion expec

- 1. Project includes inspection (CCTV, smoke ton, and rehabilitation of lines requiring repair. In this completion is expected in May 2006.

 Station Project will include evaluation of page equate capacity. Project will also include impression.
- **Frunkline** C Project will examine major trunkline C Project will include field survey, line report will be prepared to present recommende preliminary design study is complete. Const

valve vault. Design is underway.

Trunk Line Replacement - Design and construction of 24-inch sewer to correct structural proplete.

4. Project includes inspection (CCTV, smoke on, and rehabilitation of lines requiring repair.

ern, and Canna - Replace approximately 1,70 imately 3,400 lf of 8-inch up to 10-inch and 12 city restrictions resulting in overflows near Ple

Sewer Replacement - Design and construct rever that has been partially exposed by erosion channel. [Complete]

Design and construct replacement of 800–1,20 spoon Superfund site. Design will reroute sewers as I and Phase II - Relocate, rehabilitate, and g collector sewers to increase conveyance capa

abilitation Dahabilitate 0 100 If and replace

nd 188 meters)
supporting standard operating procedures (SO training for operations staff

appropriate personnel were trained and the propriate personnel were trained and the propriate. Once training of the program was completed the decisions made during peak to WWTP (3/14/06). All parameters were follow with the program. KUB is currently within the PE.

st of all new wastewater service connections the since the TDEC CAP was implemented in Ma inections that have been approved but have no

ed Order until the Consent Decree CAP is app

past quarter. Also noted are the dates each sub the Public Document Repository (PDR), when when EPA responded with comments, when K in EPA approval was received.

ntrols Program cree language, page 57: "No later than one-hu

he Date of Entry, KUB shall submit a Process ourth Creek and Loves Creek WWTPs for use onditions."

the Process Controls Program in the PDR on

el 1 Deliverable was available for public common, 2005. No comments were received during the is deliverable on July 8, 2005. EPA disapprove to the extent of the comments and delays in SEPA to discuss the comments in greater detail,

deliverable was submitted to EPA on November of the Paragraph of September 16, 2005.

the Capacity Assurance Program in the PDR

Level 1 Deliverable was available for public til January 16, 2006. No comments were receited this deliverable on February 8, 2006.

rective Action Plan/Engineering Report ree language, page 23: "On or before Novembase 1 Corrective Action Plan/Engineering Report reconditions causing SSOs with the goal of elitate Long-Term List."

the Phase 1 Corrective Action Plan/Engineeri 2, 2005. This Review Level 1 Deliverable was om September 12, 2005, until October 12, 2005

ing that period. KUB submitted this deliverable was disapproved by EPA on February 23,

g period, KUB incurred five Unpermitted Discolockages caused by grease, two were due to he tion failure. Table 1 below lists all violations so in the Consent Decree.

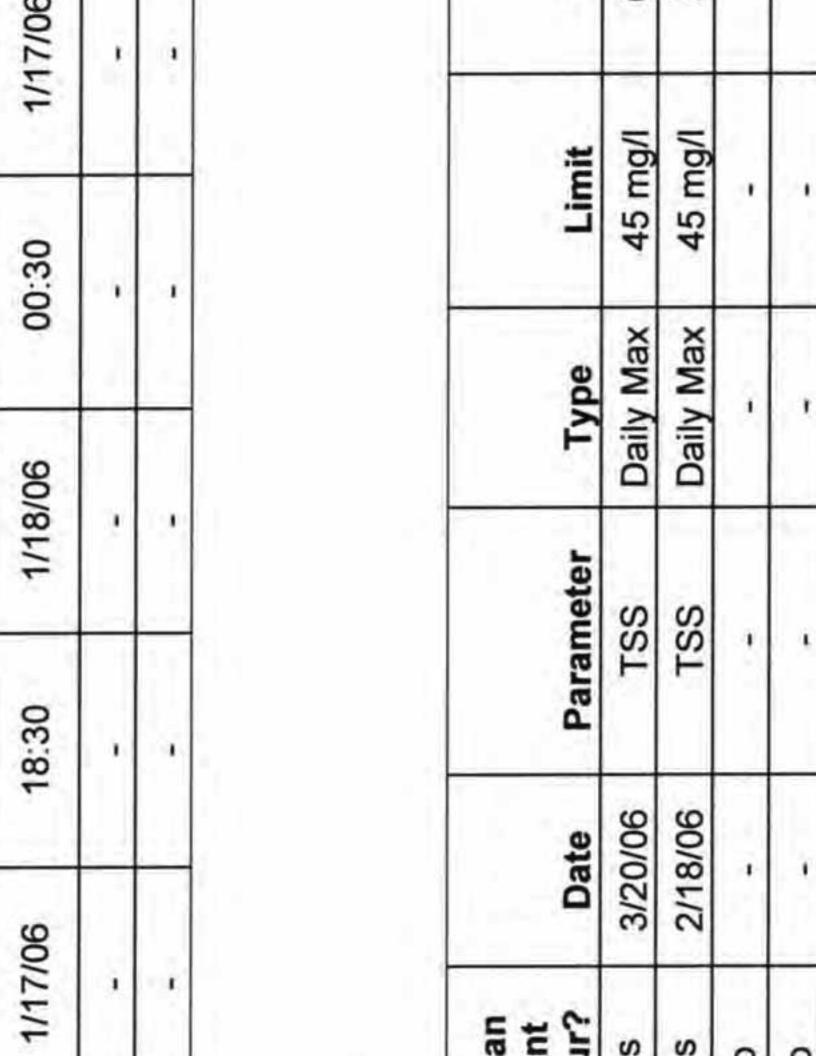
ect to Stipulated Penalties

Date	Address	(
1/17/06	2505 Delrose Drive	I
1/17/06	436 Maryville Pike	H
1/17/06	4132 W Martin Mill Pike	B
1/26/06	4713 Old Broadway	C
3/20/06	1817 Rocky View Way	B

nd Diversion; and the total Bypass or Diversion of the properties of the property of the prope

SSOs that occurred during this reporting period events. Of that number, 18 were due to blockar ombination thereof, four were due to heavy raid, two were due to broken pipe, two were due to hanical failure. Of the 30 SSO events, 21 were were in the 1001 – 10,000 range, and three eventations for events during this period are as follows from 2.1 – 5 hours, and five lasted more than

considered significant because of the lengthy after a contractor failed to reconnect a service of the homeowner had ongoing issues with slot traced back to the date the contractor complet volume of the event was estimated based on the



rterly Progress Report for the 2nd quarter 2006 during this investigation are included in a pro-

investigation is necessary. A complete investi

llection juarter of 2006, KUB will continue to monitor er basins of eight area creeks. KUB will collec

er basins of eight area creeks. KUB will collect during the second quarter 2006:

y Creek Mue or Sue Nu	
Creek Mile #	Creek Mile #
0.45	2.57
0.36	1.54
0.87	2.08E
0.55	1.33
0.15	0.32
0.35	0.90E
0.85	1.89
0.53	1.12

Appendix A

Authorized Sewer Connections

	835	1250	4th Creek	411
	1002	1500	4th Creek	4th
	0	0	4th Creek	4th
	0	0	4th Creek	4th
_	167	250	4th Creek	4th
	167	250	4th Creek	4th
	334	500	4th Creek	4th
	3841	5750	4th Creek	4th
	167	250	4th Creek	4th
	167	250	4th Creek	4th
	167	250	4th Creek	4th
	167	250	4th Creek	4th
	167	250	4th Creek	4th
	167		4th Creek	4th
	167	250	4th Creek	4th
ď	334	500	4th Creek	4th
	668	1000	4th Creek	4th
	668	1000	4th Creek	4th
	0	0	4th Creek	4th
	1336	2000	4th Creek	4th
	1503	2250	4th Creek	4th
	167		4th Creek	4th
	167	2000	4th Creek	4th
	407	000	411 0	411

	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
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	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
-			The state of the s

	501	750 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
97	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
797	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 Eastbridge	Ea
	167	250 1st Creek	Ku
		000 0-10	V.

	16/	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	4200	6300 1st Creek	Ku
	167	250 South Knox / Knob Cr	Ku
1	167	250 1st Creek	Ku
	167	250 3rd Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	700	1050 3rd Creek	Ku
	167	250 1st Creek	Ku
	167	250 1st Creek	Ku
	407	OFO 4-4 Ossals	V

167	250	1st Creek	Ku
1503	2250	South Knox / Knob Cr	Ku
1503	2250	South Knox / Knob Cr	Ku
3006	4500	South Knox / Knob Cr	Ku
3173	4750	3rd Creek	Ku
3006	4500	South Knox / Knob Cr	Ku
1503	2250	South Knox / Knob Cr	Ku
1503	2250	South Knox / Knob Cr	Ku
3340	5000	South Knox / Knob Cr	Ku
835	1250	South Knox / Knob Cr	Ku
2672	4000	South Knox / Knob Cr	Ku
2171	3250	South Knox / Knob Cr	Ku
2505	3750	South Knox / Knob Cr	Ku
2505	3750	South Knox / Knob Cr	Ku
167	250	South Knox / Knob Cr	Ku
0	0	1st Creek	Ku
0	0	1st Creek	Ku
167	250	3rd Creek	Ku
167	250	WKUD	Ku
167	250	WKUD	Ku
1503	2250	2nd Creek	Ku
334	500	Williams Creek	Ku
167	250	WKUD	Ku
165	050		1/.

167	250 1st Creek	KU
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
334	500 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
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167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
167	250 1st Creek	Ku
107	050 4-4 0	W.

167	250	Zna Greek	Nu
167	250	3rd Creek	Ku
167	250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
835	1250	3rd Creek	Ku
3340	5000	3rd Creek	Ku
334	500	3rd Creek	Ku
334	500	3rd Creek	Ku
2839	4250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
334	500	3rd Creek	Ku
3507	5250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
3507	5250	3rd Creek	Ku
3507	5250	3rd Creek	Ku
2672	4000	3rd Creek	Ku
2839	4250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
2839	4250	3rd Creek	Ku
167	250	3rd Creek	Ku
167	250	3rd Creek	Ku
167	250	3rd Creek	Ku
467	250	Ord Crook	V

	107	250	South Knox / Knob Creek	Nu
	0	0	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	20374	30500	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	0	0	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	Williams Creek	Ku
	167	250	Williams Creek	Ku
	167	250	WKUD	Ku
	167	250	Williams Creek	Ku
	9018	13500	Williams Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	South Knox / Knob Creek	Ku
	167	250	WKUD	Ku
_	167	250	WKUD	Ku
	167	250	WKUD	Ku
	167	250	WKUD	Ku
	167	250	WKUD	Ku
	167	250	WKUD	Ku
	407	050	1	1

	167	250 Loves Creek	LO
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
77.0	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	167	250 Loves Creek	Lo
	407	OFO Louis Creek	

101	250 Loves Creek	LO
334	500 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo
167	250 Loves Creek	Lo

250 Loves Creek

167

Appendix D

SSOs

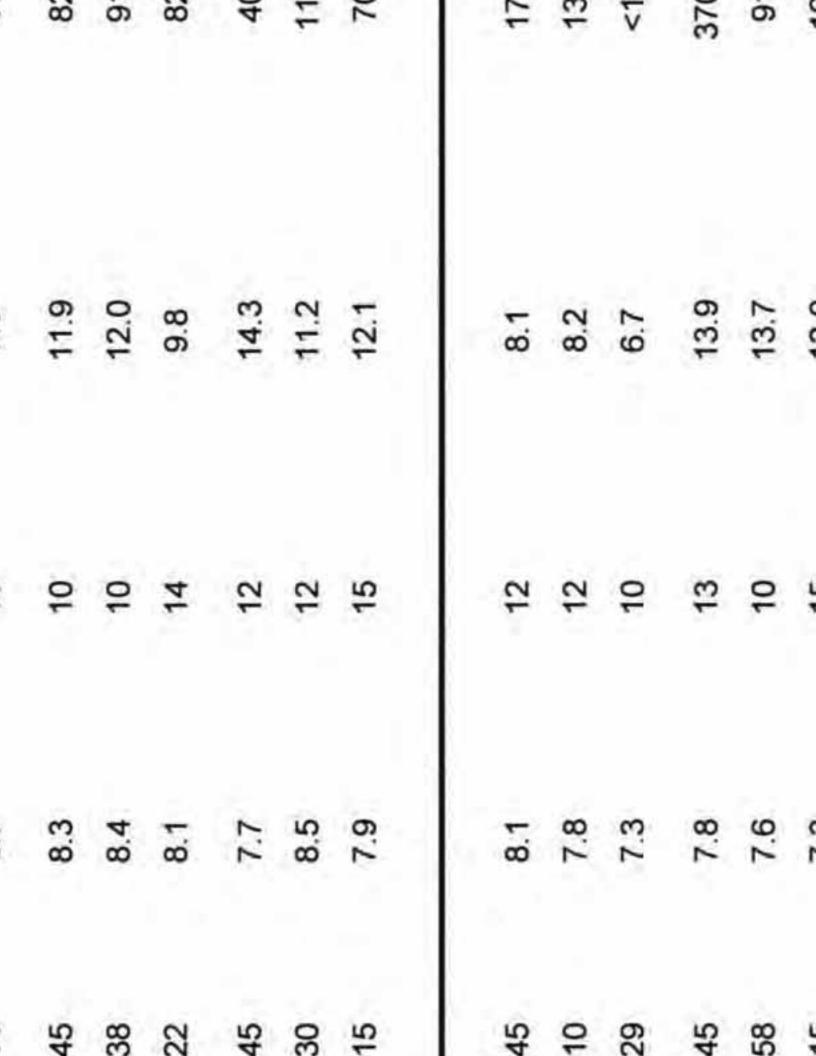
Appendix

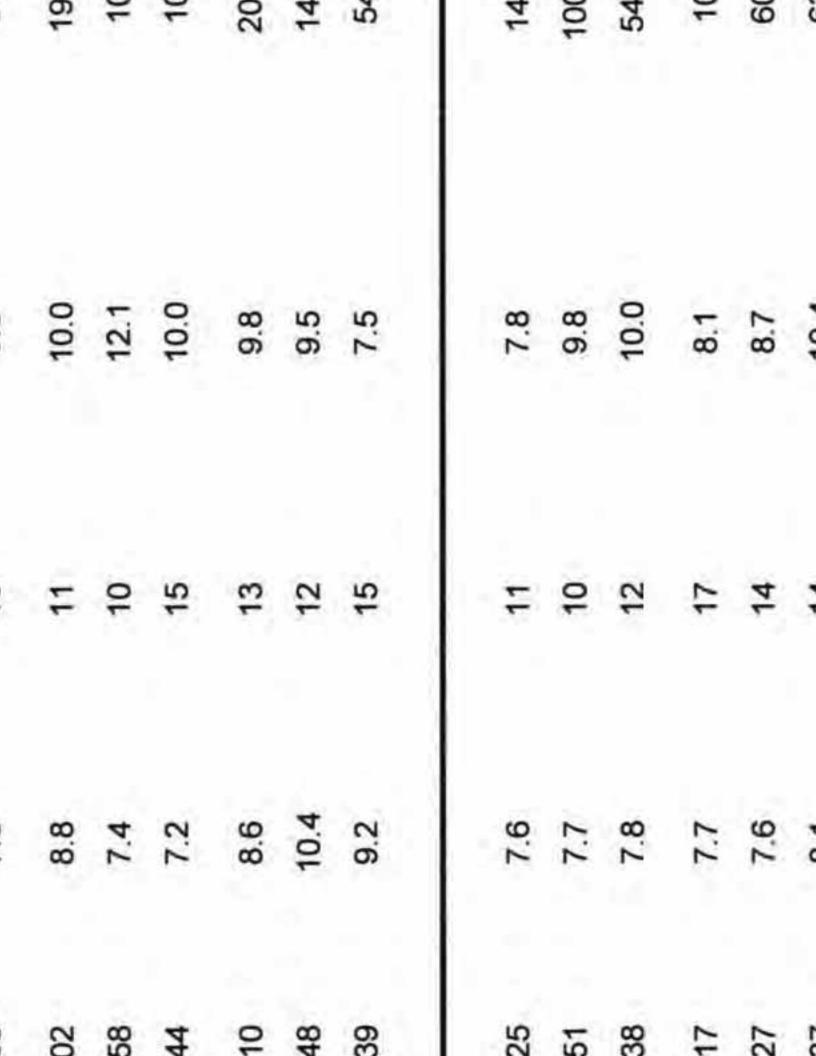
Building Backups

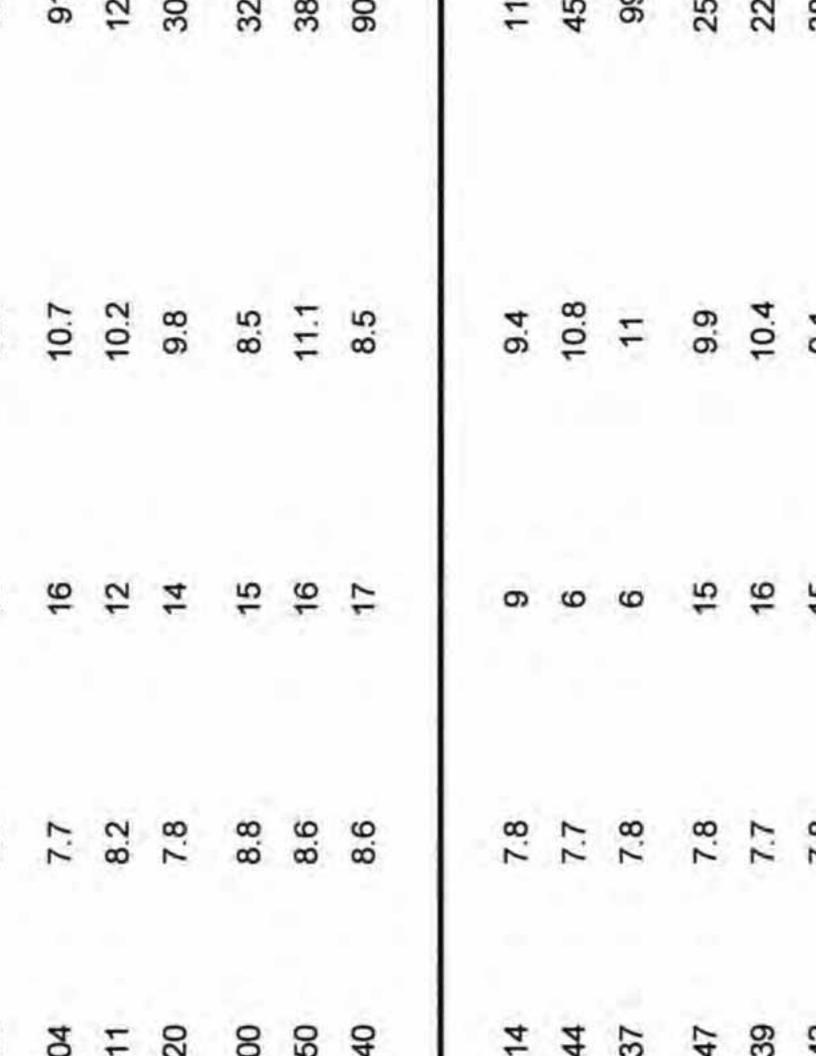
ld Creek	15	BBU	The sewer main was flushed to remove the blockage caused by grease and
Creek	29	BBU	The sewer main was flushed to remove the blockage caused by debri

Appendix D

later Quality Monitoring Progra Sampling Results







00	40.4	40	0.0	00
18	11.3	18	8.4	40
27	11.9	17	6.6	28
30	8.2	12	8.8	37
11	11.5	8	8.1	99
11	11.1	10	8.7	15
8(12.3	15	8.4	35
9	11.0	17	7.2	22
24	11.4	18	8.3	10
18	13.2	14	8.8	53
70	11.5	14	8.0	93
70	13.1	14	7.5	17

8	8.0	8.5	13:39
89	8.8	9.1	13:40
œ	13.3	7.5	13:35
р	Temperature (Celsius)	Dissolved Oxygen (mg/l)	Sample Time
		0.00 inches rain 0.00 inches rain 0.00 inches rain	ollected. -25-06: 0.00 inches rain -26-06: 0.00 inches rain -27-06: 0.00 inches rain
no P	SSO, therefore	4,025 gallons here was no industry upstream of the SSO, therefore no P	4,025 gallons There was no in

9	9.3	11.3	10:30
8	9.4	10.8	10:40
7.	9.5	12.7	10:05
7.	10.3	11.0	10:20
р	Temperature (Celsius)	Dissolved Oxygen (mg/l)	Sample Time
		iches rain	1-19-00. 0.00 inches rain 1-20-06: 0.64 inches rain 1-21-06: 0.23 inches rain
2	000, 110,000	ollected.	collected.
- 1			0,800 gallons

.3	13.7	7.3	0	11
.52	10.6	7.6	0	11
.57	*	*	0	*
.57 79 T	10.1	7.3	0	13
79	12.7	7.6	*	13
791	12.3	4.6	0	13
791 .84	*	7.8	*	14.
88 T	9.3	6.7	0	16
.89	12.6	7.6	0	15
2 T	7.5	6.7	0	16
92 T .94	13.7	7.8	0	16 16
41T 95 .0 .09 .3	7.6	6.8	0	16
95	11.7	7.9	0	16
.0	12.9	7.9	0	17
.09	13.7	8	0	17
.3	12.7	7.5	0	12
33	11.5	7.6	0	12
47T	*	*	0	*
58	9.8	7.6	0	12
66	9.2	7.4	0	13
37T	12	7.5	0	12
68	9	7.4	0	14
72	9.8	7.3	0	15