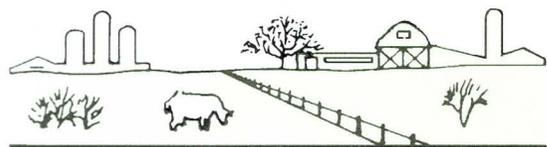
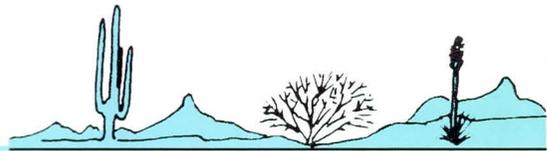
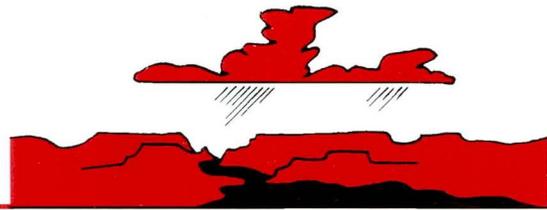


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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

**Stormwater Quality Report
City of Phoenix, Arizona**

Fourth Quarter 2002

July 11, 2002



Stormwater Quality Report

Fourth Quarter, Sampling Year 2002

April 1, 2002 through June 30, 2002

For

City of Phoenix, Arizona

July 11, 2002

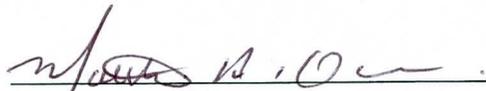
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Reviewed by:


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Water Quality Hydrologist, FCDMC

Stormwater Quality Report
City of Phoenix, Arizona

Fourth Quarter 2002

July 11, 2002

Introduction

This report details the NPDES stormwater sampling activities during the summer of 2002, which includes the period from April 1, 2002 through June 30, 2002.

The Flood Control District of Maricopa County, in cooperation with the U.S. Geological Survey, operates and maintains seven land based stormwater quality-monitoring stations. The USGS is responsible for all maintenance and sample collection at the seven monitoring sites.

During storm events, only representative storm events are sampled. A representative storm event has occurred when the following criteria has been met

PHOENIX	RAINFALL	DURATION
SUMMER	0.15 – 0.64 INCH	1.2 – 3.7 HOURS
WINTER	0.15 – 0.64 INCH	2.6 – 7.9 HOURS

and there has been **no rainfall greater than 0.10 inches within the previous 72 hours**. Storm duration is defined as the time period from start to end of a sustained rainfall. Sustained rainfall is defined as rainfall that continues without a gap of greater than 150 consecutive minutes for winter storms and greater than 60 minutes for summer storms. If a gap greater than these limits occurs, then the rainfall is considered to be from a separate storm event. Summer months are April through September and winter months are October through March.

Summary of Storm Events

Table 1 summarizes non-sampled storm events that occurred during the fourth quarter of fiscal year 2002 (April 1 – June 30, 2002). Table 2, on Pages 3-4 of this report, summarizes data retrievals from the sites. Any troubleshooting of the equipment is detailed in the Maintenance Summary section of this report.

TABLE 1
SUMMARY OF NON-SAMPLED STORM EVENTS
APRIL 1, 2002 – JUNE 30, 2002

SITE	DATE	RAIN (inches)	REASONS NOT SAMPLED
SR30	04/06/02	0.03	RAIN < 0.15 INCH, DURATION TOO SHORT

TABLE 2
SUMMARY OF DATA RETRIEVALS
APRIL 1, 2002 – JUNE 30, 2002

SITE	DATE	RETRIEVAL TYPE
SR49	04/05/02	Phone - Weekly
SR49	04/12/02	Phone - Weekly
SR49	04/19/02	Phone - Weekly
SR49	05/03/02	Phone - Weekly
SR49	05/10/02	Phone - Weekly
SR49	05/17/02	Phone - Weekly
SR49	05/24/02	Phone - Weekly
SR49	05/31/02	Phone - Weekly
SR49	06/07/02	Phone - Weekly
SR49	06/14/02	Phone - Weekly
SR49	06/21/02	Phone - Weekly
SR49	06/28/02	Phone - Weekly

SR03	04/05/02	Phone - Weekly
SR03	04/12/02	Phone - Weekly
SR03	04/19/02	Phone - Weekly
SR03	04/26/02	Phone - Weekly
SR03	05/03/02	Phone - Weekly
SR03	05/10/02	Phone - Weekly
SR03	05/17/02	Phone - Weekly
SR03	05/20/02	Onsite
SR03	05/24/02	Phone - Weekly
SR03	05/31/02	Phone - Weekly
SR03	06/07/02	Phone - Weekly
SR03	06/14/02	Phone - Weekly
SR03	06/21/02	Phone - Weekly
SR03	06/28/02	Phone - Weekly

SR30	04/05/02	Phone - Weekly
SR30	04/12/02	Phone - Weekly
SR30	04/19/02	Phone - Weekly
SR30	04/26/02	Phone - Weekly
SR30	05/03/02	Phone - Weekly
SR30	05/10/02	Phone - Weekly
SR30	05/17/02	Phone - Weekly
SR30	05/24/02	Phone - Weekly
SR30	05/31/02	Phone - Weekly
SR30	06/07/02	Phone - Weekly
SR30	06/14/02	Phone - Weekly
SR30	06/21/02	Phone - Weekly
SR30	06/28/02	Phone - Weekly

SR45	04/26/02	Phone - Weekly
SR45	05/03/02	Phone - Weekly
SR45	05/10/02	Phone - Weekly
SR45	05/17/02	Phone - Weekly
SR45	05/24/02	Phone - Weekly
SR45	05/31/02	Phone - Weekly
SR45	06/07/02	Phone - Weekly
SR45	06/14/02	Phone - Weekly
SR45	06/21/02	Phone - Weekly
SR45	06/28/02	Phone - Weekly

ACDC43	04/05/02	Phone - Weekly
ACDC43	04/12/02	Phone - Weekly
ACDC43	04/19/02	Phone - Weekly
ACDC43	04/26/02	Phone - Weekly
ACDC43	05/03/02	Phone - Weekly
ACDC43	05/10/02	Phone - Weekly
ACDC43	05/17/02	Phone - Weekly
ACDC43	05/24/02	Phone - Weekly
ACDC43	05/31/02	Phone - Weekly
ACDC43	06/07/02	Phone - Weekly
ACDC43	06/14/02	Phone - Weekly
ACDC43	06/21/02	Phone - Weekly
ACDC43	06/28/02	Phone - Weekly

IB-08	04/05/02	Phone - Weekly
IB-08	04/12/02	Phone - Weekly
IB-08	04/19/02	Phone - Weekly
IB-08	04/26/02	Phone - Weekly
IB-08	05/03/02	Phone - Weekly
IB-08	05/10/02	Phone - Weekly
IB-08	05/17/02	Phone - Weekly
IB-08	05/21/02	Onsite
IB-08	05/24/02	Phone - Weekly
IB-08	05/31/02	Phone - Weekly
IB-08	06/07/02	Phone - Weekly
IB-08	06/14/02	Phone - Weekly
IB-08	06/21/02	Phone - Weekly
IB-08	06/28/02	Phone - Weekly

CAVE	04/15/02	Onsite
CAVE	05/21/02	Onsite
CAVE	06/06/02	Onsite

Maintenance Summary

This section details maintenance activities and problems that occurred during the fourth quarter of fiscal year 2002. All water quality samplers are ISCO Model 3700 with the exception of Station IB08. Station IB08 utilizes a SIGMA Model 900 sampler. The current ISCO sample collection bottle setup is one 5-gallon glass bottle. The current SIGMA sample collection bottle setup is eight 2-liter glass bottles.

SR49 – Salt River at 67th Avenue

The phone battery was replaced on April 10, 15, 25, 29, May 20 and June 12. Phone problems were noted on April 25. Celjack was changed on April 29. All phone components were removed on April 29 for bench test. All phone components were reinstalled on May 2. Installed new cell phone antenna on May 2. Moved cell antenna to top of mast on May 3. Raingage was cleaned and calibrated on May 28. Installed new intake tubing and strainer on June 3. Installed a ladder to the bottom of the culvert for easier access on June 12.

SR03 – Salt River at 35th Avenue

The phone battery was replaced on April 15, 25, May 20 and June 3, 12. The data logger battery was replaced on April 25, May 20 and June 12. Raingage was repaired, cleaned, and calibrated on May 28. Installed new intake tubing and strainer and moved PT and intake upstream about ten feet on June 7.

SR30 – Salt River at 27th Avenue

The phone battery was replaced on April 15, 29, May 20, June 3. The data logger battery was replaced on April 15. Raingage was cleaned and calibrated on May 29. Removed old second intake line and purged and cleaned bubbler line on May 29. Installed new intake tubing and strainer on June 3.

SR45 – Salt River at 40th Street

The phone line was fixed on April 20. Raingage was cleaned and calibrated on May 28. Installed new intake tubing and strainer and cleaned and reattached the PT on June 3.

ACDC43 – ACDC near Peoria Avenue and 43rd Avenue

No problems noted. No maintenance done at this site during the 3-month period.

IB08 – 40th Street at Indian Bend Wash

Reset sampler on April 10, 25, May 21, June 5, 7. Pressure transducer depth was calibrated on January 28. All sampler tubing and collection bottles were cleaned on April 10. Data was downloaded to the DTU onsite on May 21. The SIGMA 900 sampler battery was replaced on April 25. Summer Storm Criteria was set on May 21. Raingage was cleaned and repaired on May 29. Raingage was cleaned and calibrated on June 5. Cleaned debris from intake area on May 29 and June 5. Intake strainer and PT tie down were removed for repair on June 6. Installed new intake strainer and reattached PT on June 7.

CAVE - Cave Creek Road and Tatum Boulevard

Pulled data from data logger on April 15, May 21 and June 6. Raingage was cleaned and calibrated on June 5. Installed new intake strainer on June 6.

Data from 4th Quarter 2002

The remainder of this report contains data. The following data are included:

- Rainfall data for seven Phoenix NPDES raingages.
- Rainfall data for twenty-eight Phoenix ALERT raingages.
- Copies of operation and maintenance log sheets.

STORM WATER QUALITY RAINFALL GAGES

Gauge Rainfall (inches)													
Gage Number		SR49											
Location		Salt River at 67th Avenue											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.63						
5						0.18							
6		0.02			0.11								
7									0.05				
8													
9			0.10										
10			0.06										
11							0.31						
12													
13				0.16									
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.05											
30		0.12						0.02					
31													
Month Total		0.19	0.16	0.16	0.11	0.18	0.94	0.02	0.00	0.05	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		SR03											
Location		Salt River at 35th Avenue											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1			"										
2			"										
3			"										
4			"				gage						
5			"				not						
6			"				operating						
7			gage				"			0.02			
8			not				"						
9			operating				gage						
10							not						
11							operating						
12													
13													
14													
15													
16													
17			0.18										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27		gage											
28		not											
29		operating											
30		"											
31		"											
Month Total		0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		SR30											
Location		Salt River at 27th Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1				Access	"	"	"	"	Access			
	2				to	"	"	"	"	to			
	3				site	"	"	"	"	site			
	4				denied	"	"	"	"	denied			
	5				"	"	"	"	"	New access			
	6	0.04			"	"	"	"	"		0.03		
	7				"	"	"	"	"	0.06			
	8				"	"	"	"	"	0.06			
	9		0.47		"	"	"	"	"				
	10				"	"	"	"	"				
	11				"	"	"	"	"				
	12				"	"	"	"	"				
	13				"	"	"	"	"				
	14				"	"	"	"	"				
	15				"	"	"	"	"				
	16				"	"	"	"	"				
	17		0.11		"	"	"	"	"				
	18				"	"	"	"	"				
	19				"	"	"	"	"				
	20				"	"	"	"	"				
	21				"	"	"	"	"				
	22				"	"	"	"	"				
	23				"	"	"	"	"				
	24				"	"	"	"	"				
	25				"	"	"	"	"				
	26				"	"	"	"	"				
	27				"	"	"	"	"				
	28				"	"	"	"	"				
	29	0.04			"	"	"	"	"				
	30	0.12			"	"	"	"	"				
	31				"	"	"	"	"				
	Month Total	0.20	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.03	0.00	0.00

Gauge Rainfall (Inches)													
Gage Number		SR45											
Location		Salt River at 40th Street											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.42						
5						0.16							
6		0.07											
7										0.07			
8													
9		0.21	0.23										
10													
11							0.21						
12													
13													
14													
15													
16													
17		0.21	0.05										
18													
19													
20													
21													
22													
23													
24													
25		0.04											
26													
27													
28													
29		0.27											
30		0.04											
31													
	Month Total	0.84	0.28	0.00	0.00	0.16	0.63	0.00	0.00	0.07	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		IB08											
Location		40th Street at Indian Bend Wash											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.61						
5		0.02											
6		0.05											
7									0.06				
8													
9			0.25										
10													
11							0.09						
12													
13													
14													
15													
16													
17			0.63										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.22											
30		0.11						0.12					
31													
Month Total		0.40	0.88	0.00	0.00	0.00	0.70	0.12	0.00	0.06	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number	CAVE												
Location	Cave Creek Road and Tatum Boulevard												
	July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002	
1	gage												
2	not												
3	working												
4	"	0.04				0.48							
5	"				0.05								
6	"												
7	"			0.03									
8	"	0.04											
9	"	0.34											
10	"												
11	"	0.18											
12	"												
13	"	0.05											
14	"	0.30											
15	"					0.02							
16	"												
17	"	0.09											
18	"												
19	"												
20	"												
21	"												
22	"												
23	"												
24	"												
25	"				0.06								
26	"												
27	"												
28	gage												
29	not												
30	working						0.06						
31													
Month Total	0.00	1.04	0.00	0.03	0.11	0.50	0.06	0.00	0.00	0.00	0.00	0.00	

FLOOD CONTROL DISTRICT
A.L.E.R.T GAGES

Gauge Rainfall (inches)													
Gage Number		4500											
Location		Cesar Chavez Park											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.51						
5						0.20							
6											0.04		
7										0.08			
8													
9			0.08										
10													
11							0.24						
12													
13				0.12									
14													
15													
16													
17			0.08										
18			--										
19			--										
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.04											
30		0.20											
31													
Month Total		0.24	0.16	0.12	0.00	0.20	0.75	0.00	0.00	0.08	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4510											
Location		Roeser at Second Street											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.31						
5						0.20							
6		0.04											
7													
8													
9			0.28										
10													
11							0.08						
12													
13													
14													
15													
16													
17			0.04										
18													
19													
20													
21													
22													
23													
24													
25		0.08											
26													
27													
28													
29		0.04											
30		0.08						0.04					
31													
Month Total		0.24	0.32	0.00	0.00	0.20	0.39	0.04	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4600											
Location		IBW at McKellips Road											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2										—			
3													
4							0.59						
5						0.16							
6		0.08				0.04							
7										0.04	0.04		
8													
9			0.43										
10		0.20						0.08					
11							0.20						
12													
13													
14													
15													
16										—			
17		0.35											
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		1.30											
30		0.08	0.20										
31													
Month Total		2.01	0.63	0.00	0.00	0.20	0.79	0.08	0.00	0.04	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4610											
Location		IBW at Indian Bend Road											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
1													
2													
3													
4							0.59						
5						0.28							
6		0.04											
7										0.20			
8													
9		0.51	0.35										
10								0.08					
11							0.08						
12													
13													
14		0.35											
15													
16													
17		0.12											
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.51											
30		0.16						0.04					
31													
Month Total		1.69	0.35	0.00	0.00	0.28	0.67	0.12	0.00	0.00	0.20	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4630											
Location		Thunderbird Academy - near Thunderbird and Scottsdale Roads											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3												
	4						0.59						
	5					0.16							
	6												
	7									0.04			
	8												
	9	0.08	0.39										
	10							0.08					
	11												
	12												
	13												
	14	0.08							--				--
	15								--				
	16												
	17		0.12										
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29	0.39											
	30	0.08						0.04					
	31												
	Month Total	0.63	0.51	0.00	0.00	0.16	0.59	0.12	0.00	0.04	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4640											
Location		IBW and Sweetwater Avenue											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.59						
5		0.04				0.04							
6		0.08									0.04		
7									0.04		0.12		
8													
9			0.28										
10													
11							0.08						
12													
13													
14													
15													
16													
17			0.47										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.08											
30		0.12						0.12					
31													
	Month Total	0.32	0.75	0.00	0.00	0.04	0.67	0.12	0.00	0.04	0.16	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4650											
Location		Paradise Valley Park - near Union Hills Drive at 32nd Street											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.59						
5						0.08	0.04			--			
6		0.08									0.04		
7											0.16		
8													
9			0.28	--									
10													
11													
12													
13			0.08										
14			0.04										
15													
16													
17			0.47										
18													
19													
20													
21													
22													
23													
24													
25						0.04							
26													
27													
28													
29													
30		0.16						0.08					
31													
Month Total		0.24	0.87	0.00	0.00	0.12	0.63	0.08	0.00	0.00	0.20	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4700											
Location		FCD - Durango Street at 27th Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3												
	4						0.47						
	5					0.24							
	6	0.08											
	7									0.04			
	8												
	9	0.04	0.31										
	10												
	11						0.20						
	12												
	13												
	14												
	15												
	16												
	17		0.24										
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28									0.08			
	29	0.08											
	30	0.08											
	31												
	Month Total	0.28	0.55	0.00	0.00	0.24	0.67	0.00	0.00	0.12	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4710											
Location		Jefferson at 4th Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
1													
2													
3													
4							0.51						
5						0.08							
6		0.08											
7										0.04			
8							--						
9		0.12	0.43				--						
10													
11							0.20						
12													
13													
14													
15													
16													
17			0.12										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.12											
30		0.16											
31													
	Month Total	0.48	0.55	0.00	0.00	0.08	0.71	0.00	0.00	0.04	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4730											
Location		near Thomas Road and 32nd Street											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3			--									
	4						0.43						
	5					0.08							
	6	0.08											
	7										0.12		
	8									0.04			
	9	0.04	0.20		0.08								
	10												
	11						0.24						
	12						0.08						
	13												
	14	0.16											
	15												
	16												
	17		0.04						--				
	18								--				
	19												
	20												
	21												
	22												
	23												
	24												
	25									--			
	26												
	27												
	28												
	29	0.28											
	30	0.16						0.04					
	31												
	Month Total	0.72	0.24	0.00	0.08	0.08	0.75	0.04	0.00	0.04	0.12	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4740											
Location		Papago Park - near McDowell Road and 52nd Street											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3												
	4						0.51						
	5					0.12							
	6	0.12				--							
	7					--				0.04	0.08		
	8									0.04			
	9	0.04	0.31										
	10												
	11						0.20						
	12						0.04						
	13												
	14	0.04											
	15												
	16												
	17	0.16											
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29	0.20											
	30	0.08											
	31												
	Month Total	0.64	0.31	0.00	0.00	0.12	0.75	0.00	0.00	0.08	0.08	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4750											
Location		Thomas Road at 48th Street											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.51						
5						0.12							
6		0.12											
7									0.04	0.12			
8													
9			0.35										
10								0.04					
11							0.16						
12							0.04						
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.47											
30		0.04											
31													
Month Total		0.63	0.35	0.00	0.00	0.12	0.71	0.04	0.00	0.04	0.12	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4760											
Location		Maryvale Municipal Golf Course - near Indian School Road and 59th Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
1													
2													
3		0.04											
4							0.59						
5		0.04					--						
6		0.08											
7											0.04		
8													
9			0.28										
10			0.04										
11							0.31						
12													
13													
14													
15													
16													
17			0.63										
18													
19													
20													--
21													
22													
23		--											
24		--											
25		0.39											
26													
27													
28													
29		0.43											
30		0.16											
31													
Month Total		1.14	0.95	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.04	0.00	0.00

Gauge Rainfall (Inches)													
Gage Number		4780											
Location		Missouri Avenue at 16th Street											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.55						
5						0.20							
6		0.16									0.04		
7									0.04	0.12			
8													
9		0.04	0.31										
10			0.16										
11			--				0.12						
12			--				0.16						
13													
14													
15													
16													
17			0.04										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.71											
30		0.20						0.04					
31													
	Month Total	1.11	0.51	0.00	0.00	0.20	0.83	0.04	0.00	0.04	0.16	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4800											
Location		Dreamy Draw Dam											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.55						
5						0.12							
6		0.04									0.08		
7										0.04	0.12		
8													
9			0.24										
10			0.16										
11							0.12						
12							0.08						
13													
14													
15													
16													
17			0.28										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28										0.04			
29		0.71											
30		0.12						0.04					
31													
Month Total		0.87	0.68	0.00	0.00	0.12	0.75	0.04	0.00	0.08	0.20	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4820											
Location		ACDC at 43rd Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
1													
2													
3													
4							0.63	---					
5						0.20		---					
6		0.12						---					
7										0.04			
8													
9			0.79										
10			0.04										
11			0.20				0.24						
12							0.04						
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25		0.16											
26													
27													
28													
29		0.91											
30		0.16						0.04					
31													
	Month Total	1.35	1.03	0.00	0.00	0.20	0.91	0.04	0.00	0.00	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4830											
Location		Cave Creek Wash at Cactus Road											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.55						
5						0.08							
6		0.12											
7										0.04			
8													
9			0.35										
10			0.08										
11							0.16						
12							0.20						
13													
14													
15													
16													
17			0.04										
18			--										
19			--										
20							0.04						
21													
22										--			
23													
24													
25		0.04											
26													
27													
28													
29		0.20											
30		0.20											
31													
Month Total		0.56	0.47	0.00	0.00	0.08	0.95	0.00	0.00	0.00	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4840											
Location		Greenway Road at 32nd Avenue											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.47						
5						0.08							
6		0.20											
7										0.04			
8													
9			0.51										
10			0.04										
11			0.28				0.08						
12							0.24	--					
13													--
14			0.08										
15							--						
16													
17													
18													
19													
20													
21													
22													
23													
24													
25			--			0.04							
26			--										
27													
28									0.08				
29		0.20											
30		0.24											--
31													
Month Total		0.64	0.91	0.00	0.00	0.12	0.79	0.00	0.00	0.08	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		4900											
Location		Cave Buttes Dam											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3	0.11											
	4						0.39						
	5												
	6												
	7				--						0.16		
	8				--								
	9		0.11										
	10		0.05										
	11												
	12												
	13												
	14		0.16										
	15												
	16												
	17		0.05										
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29						--						
	30	0.27											
	31												
	Month Total	0.38	0.37	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.16	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5400											
Location		Agua Fria at Buckeye Road											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
1													
2													
3													
4							0.39						
5						0.43							
6					0.31								
7													
8													
9			0.08										
10			0.04										
11							0.31						
12													
13													
14													
15													
16													
17		0.08	0.12										
18													
19													
20													
21													
22													
23													
24													
25			--										
26			--										
27													
28													
29													
30		0.20						0.04					
31													
Month Total		0.28	0.24	0.00	0.31	0.43	0.70	0.04	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5505											
Location		New River at Glendale Avenue											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												--
	2												--
	3	0.12											
	4	--					0.39						
	5	--				0.12							
	6	0.12											
	7	--							--				
	8	--							--				
	9		0.16						--				
	10		0.04						--				
	11		0.20				0.12						
	12												
	13												
	14	0.04					0.04						
	15		0.04										
	16												
	17		0.16										
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29	0.43											
	30	0.12						0.04					
	31											--	
	Month Total	0.83	0.60	0.00	0.00	0.12	0.55	0.04	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5535											
Location		Adobe Dam											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
	1												
	2												
	3												
	4						0.47						
	5					0.04							
	6	0.12											
	7									0.08			
	8												
	9		0.39										
	10												
	11												
	12						0.12						
	13												
	14		0.04										
	15						0.04						
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25	0.04				0.04							
	26												
	27												
	28												
	29	0.04											
	30	0.08											
	31												
	Month Total	0.28	0.43	0.00	0.00	0.08	0.63	0.00	0.00	0.00	0.08	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5550											
Location		Deer Valley Airport											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3		0.04											
4							0.47						
5						0.04							
6		0.16									0.04		
7											0.12		
8													
9			0.04										
10			0.24										
11			0.12										
12													
13													
14			0.39				--						
15													
16							---						
17			0.24										
18													
19													
20													
21													
22													
23													
24													
25						0.08							
26													
27													
28													
29													
30		0.24						0.04					
31													
	Month Total	0.44	1.03	0.00	0.00	0.12	0.47	0.04	0.00	0.00	0.16	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5565											
Location		Skunk Creek at I-17											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3		0.08											
4				0.12			0.12						
5						0.04							
6		0.16				0.04					0.04		
7											0.12		
8													
9			0.28										
10													
11			0.08										
12							0.04						
13													
14			0.47										
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25						0.04							
26													
27													
28													
29		0.04											
30		0.24						0.04					
31													
Month Total		0.52	0.83	0.12	0.00	0.12	0.16	0.04	0.00	0.00	0.16	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		5595											
Location		New River and Bell Road											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3		0.16											
4							0.43						
5						0.12							
6		0.08											
7										0.04			
8													
9			0.39										
10			0.04										
11			0.04				0.12						
12							0.04						
13			0.04										
14			0.08										
15							0.04						
16													
17			0.39										
18													
19													
20													
21													
22													
23													
24													
25		0.16											
26													
27													
28													
29		0.39											
30		0.08						0.16					
31													
Month Total		0.87	0.98	0.00	0.00	0.12	0.63	0.16	0.00	0.00	0.04	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		6500											
Location		Guadalupe FRS											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
	1												
	2												
	3												
	4						0.59						
	5					0.24							
	6	0.08			0.04								
	7									0.08			
	8									0.04			
	9		0.28										
	10	0.04			--								
	11				--		0.16						
	12				--		0.04						
	13				--								
	14				--								
	15												
	16												
	17	0.12	0.04										
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29	0.43											
	30	0.08	0.31										
	31												
	Month Total	0.75	0.63	0.00	0.04	0.24	0.79	0.00	0.00	0.12	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		6510											
Location		South Mountain Park											
		July	August	September	October	November	December	January	February	March	April	May	June
		2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002
	1												
	2												
	3												
	4						0.63						
	5					0.20							
	6												
	7									0.08			
	8												
	9		0.43										
	10												
	11						0.28						
	12												
	13												
	14												
	15												
	16												
	17	0.04											
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29	0.20											
	30	0.12	0.31					0.04					
	31												
	Month Total	0.36	0.74	0.00	0.00	0.20	0.91	0.04	0.00	0.08	0.00	0.00	0.00

Gauge Rainfall (inches)													
Gage Number		6560											
Location		South Mountain Fan											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1				--									
2													
3				--									
4							0.67						
5						0.20							
6					0.12								
7									0.08				
8													
9			0.08										
10													
11							0.28						
12													
13				0.20									
14													
15													
16													
17			0.28										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.24											
30		0.08						0.08					
31													
	Month Total	0.32	0.36	0.20	0.12	0.20	0.95	0.08	0.00	0.08	0.00	0.00	0.00

Operation and maintenance and storm event log sheets

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STORMWATER O&M LOG SHEET

SITE	67th & Salt River		DATE	10-April-02	
ARRIVAL TIME	12:35	DEPARTURE TIME	12:46	SERVICED BY	JLM
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	<u>900</u> other

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	New = 12.94 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	Changed Battery
2	
3	

STORMWATER O&M LOG SHEET

SITE	67 TH AVE. + SR		DATE	4/15/02	
ARRIVAL TIME	11:50	DEPARTURE TIME	11:55	SERVICED BY	FOSSUM
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPLACED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	67TH AVE + SR		DATE	4/25/02	
ARRIVAL TIME	0725	DEPARTURE TIME	0735	SERVICED BY	FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.4 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	(YES) NO	
CALIBRATED DEPTH SENSOR	(YES) NO	depth (in)
CALIBRATED SAMPLE VOLUME	(YES) NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY - PHONE WORKS
2	BUT NOT CONNECTING TO CR-10
3	

STORMWATER O&M LOG SHEET

SITE	67TH AVE + SR		DATE	4/29/02	
ARRIVAL TIME	1010	DEPARTURE TIME	1115	SERVICED BY	FOSSUM
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	12.6 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	PHONE BUSY SIGNAL
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY, CHANGED CELJACK.
2	REMOVED CELL PHONE, CELJACK & MODEM
3	FOR BENCH TEST

STORMWATER O&M LOG SHEET

SITE	67 TH AVE & SR		DATE	5/2/02	
ARRIVAL TIME	0910	DEPARTURE TIME	1010	SERVICED BY	FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.5 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPLACED CELL PHONE ANTENNA, REINSTALLED
2	CELL PHONE, CELL JACK, & MODEM
3	

STORMWATER O&M LOG SHEET

SITE	67TH AVE + SR		DATE	5/3/02	
ARRIVAL TIME	0935	DEPARTURE TIME	1009	SERVICED BY	FOSSUM
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	Put CELL ANTENNA ON TOP OF MAST, PHONE
2	CONNECTS NOW.
3	

STORMWATER O&M LOG SHEET

SITE	67 AVE + SALT RIVER		DATE	05/20/02	
ARRIVAL TIME	1000	DEPARTURE TIME	1010	SERVICED BY	FOSSUM + HEMMER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.2 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	677A + SR		DATE	5/28/02	
ARRIVAL TIME	0850	DEPARTURE TIME	0920	SERVICED BY	FOSSUM + HEMAUER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.2 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	CLEANED + CALIBRATED
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	(YES) NO	depth (in)
CALIBRATED SAMPLE VOLUME	(YES) NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1
2
3

STORMWATER O&M LOG SHEET

SITE	67TH AVE & SR		DATE	6/3/02	
ARRIVAL TIME	13:00	DEPARTURE TIME	13:45	SERVICED BY	FOSSUM & HEMAUBER
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	12.2 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE TUBING & STRAINER
2	
3	

STORMWATER O&M LOG SHEET

SITE	67TH AVE + SR		DATE	6/12/02	
ARRIVAL TIME	0900	DEPARTURE TIME	10:10	SERVICED BY	HEMAKER & FOSSUM
SAMPLER	SIGMA	<input checked="" type="radio"/> YES <input type="radio"/> NO	MODEL NUMBER	<input checked="" type="radio"/> YES <input type="radio"/> NO	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED LADDER, REPLACED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	35TH AVE & SR		DATE	4/15/02	
ARRIVAL TIME	1135	DEPARTURE TIME	1140	SERVICED BY	FOSSUM
SAMPLER	SIGMA ISCO		MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPLACED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	35 TH AVE + SR		DATE	4/25/02	
ARRIVAL TIME	0710	DEPARTURE TIME	0715	SERVICED BY	FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.7 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED CR-10 & PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	35TH AVE + SE		DATE	5/20/02	
ARRIVAL TIME	0900	DEPARTURE TIME	0915	SERVICED BY	Fossum + Hemauev
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.6 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED CR-10 BATTERY
2	CHANGED PHONE BATTERY
3	PULLED DATA

STORMWATER O&M LOG SHEET

SITE	35 AVE + SR		DATE	05/28/02	
ARRIVAL TIME	1000	DEPARTURE TIME	1030	SERVICED BY	FOSSUM / HEMAUER
SAMPLER	SIGMA	<u>ISCO</u>	MODEL NUMBER	900	<u>3700</u>

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input type="radio"/> YES <input checked="" type="radio"/> NO	BUCKET PIVOTS NEED REPAIR
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	
2	
3	

STORMWATER O&M LOG SHEET

SITE	35 AVE + SR		DATE	05/28/02	
ARRIVAL TIME	1315	DEPARTURE TIME	1345	SERVICED BY	Fogsum/HEMAUER
SAMPLER	SIGMA	<input checked="" type="radio"/> ISCO	MODEL NUMBER	900	<input checked="" type="radio"/> 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.2 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	CLEANED + CALIBRATED
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	
2	
3	

STORMWATER O&M LOG SHEET

SITE	35 TH AVE & SR		DATE	6/3/02	
ARRIVAL TIME	12:35	DEPARTURE TIME	12:40	SERVICED BY	FOSSUM + HENAUER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.2 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	35 TH AVE + SR		DATE	6/7/02	
ARRIVAL TIME	0700	DEPARTURE TIME	1040	SERVICED BY	HEMAUER + FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.1 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	(YES) NO	depth (in)
CALIBRATED SAMPLE VOLUME	(YES) NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE TUBING + STRAINER,
2	MOVED PT & INTAKE UPSTREAM SLIGHTLY.
3	

STORMWATER O&M LOG SHEET

SITE	35 AVE + SR		DATE	06/12/02	
ARRIVAL TIME	1120	DEPARTURE TIME	1130 1230	SERVICED BY	Fossum/Hempner
SAMPLER	SIGMA	(ISCO)		MODEL NUMBER	900 (3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES <input checked="" type="radio"/> NO	12.8 volts
SOLAR PANEL CLEAN	YES <input checked="" type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	YES <input checked="" type="radio"/> NO	
CELLULAR ANTENNA	YES <input checked="" type="radio"/> NO	
PHONE TONE	YES <input checked="" type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	YES <input checked="" type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	YES <input checked="" type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE AND CR10 BATTERIES
2	
3	

STORMWATER O&M LOG SHEET

SITE	27TH AVE + SR		DATE	4/15/02	
ARRIVAL TIME	1115	DEPARTURE TIME	1130	SERVICED BY	FOSSUM
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.5 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REPLACED PHONE BATTERY, REPLACED ISCO
2	BATTERY
3	

STORMWATER O&M LOG SHEET

SITE	27TH AVE + SR		DATE	4/29/02	
ARRIVAL TIME	0945	DEPARTURE TIME	0955	SERVICED BY	FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.4 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY.
2	
3	

STORMWATER O&M LOG SHEET

SITE	27 AVE + SALT RIVER		DATE	05/20/02	
ARRIVAL TIME	09:20	DEPARTURE TIME	09:30	SERVICED BY	FOSSUM + HEMAKER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.2 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	(YES) NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	(YES) NO	
CALIBRATED DEPTH SENSOR	(YES) NO	depth (in)
CALIBRATED SAMPLE VOLUME	(YES) NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED PHONE BATTERY
2	
3	

STORMWATER O&M LOG SHEET

SITE	27 AVE & SR		DATE	5/29/02	
ARRIVAL TIME	0650	DEPARTURE TIME	0740	SERVICED BY	FOSSUM + HEMAUER
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.2 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	CLEANED + CALIBRATED
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input type="radio"/> YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REMOVED OLD SECOND INTAKE LINE
2	PURGED BUBBLER LINE
3	

STORMWATER O&M LOG SHEET

SITE	27 TH AVE & SR		DATE	6/3/02	
ARRIVAL TIME	11:15	DEPARTURE TIME	12:30	SERVICED BY	FOSSUM & HEMAUER
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	12.2 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE TUBING & STRAINER
2	REPLACED PHONE BATTERY.
3	

STORMWATER O&M LOG SHEET

SITE	40TH + SR		DATE	4/15/02	
ARRIVAL TIME	1050	DEPARTURE TIME	1100	SERVICED BY	FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.7 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES (NO)	PHONE STILL DEAD
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	
2	
3	

STORMWATER O&M LOG SHEET

SITE	40 ST + SR		DATE	05/28/02	
ARRIVAL TIME	1215	DEPARTURE TIME	1300	SERVICED BY	FOSSOM / HEMALIER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	CLEANED + CALIBRATED
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	
2	
3	

STORMWATER O&M LOG SHEET

SITE	40 TH ST & SR		DATE	6/3/02	
ARRIVAL TIME	08:45	DEPARTURE TIME	10:50	SERVICED BY	FOSSUM + HEMAUER
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.2 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	(YES) NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	(YES) NO	
CALIBRATED DEPTH SENSOR	(YES) NO	depth (in)
CALIBRATED SAMPLE VOLUME	(YES) NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE TUBING + STRAINER.
2	CLEANED AND REATTACHED PT.
3	

STORMWATER O&M LOG SHEET

SITE	IBW @ 40 th		DATE	10-April-02	
ARRIVAL TIME	1:17	DEPARTURE TIME	1:56	SERVICED BY	JM
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900 other

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	<input type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	Cleaned bottles + tubing
2	Reset
3	

STORMWATER O&M LOG SHEET

SITE	40 TH ST. + IBW		DATE	4/25/02	
ARRIVAL TIME	1030	DEPARTURE TIME	1035	SERVICED BY	FOSSUM
SAMPLER	SIGMA ISCO		MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	13.3 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CHANGED SIGMA BATTERY, RESET
2	
3	

STORMWATER O&M LOG SHEET

SITE	1BW + 40 ST		DATE	05/21/02	
ARRIVAL TIME	0810	DEPARTURE TIME	0825	SERVICED BY	FOSSUM/HEMALIER
SAMPLER	<input checked="" type="radio"/> SIGMA	ISCO	MODEL NUMBER	<input checked="" type="radio"/> 900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.8 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA - RESET SAMPLER - SET SUMMER
2	STORM CRITERIA
3	

STORMWATER O&M LOG SHEET

SITE	40TH ST. & IBW		DATE	5/29/02	
ARRIVAL TIME	0930	DEPARTURE TIME	1010	SERVICED BY	HEMAUER + FOSSUM
SAMPLER	SIGMA ISCO		MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.9 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	CLEANED & FIXED
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED AROUND INTAKE + PT
2	
3	

STORMWATER O&M LOG SHEET

SITE	40TH ST + IBW		DATE	6/5/02	
ARRIVAL TIME	1200	DEPARTURE TIME	1240	SERVICED BY	HEMAUER + FOSSUM
SAMPLER	<input checked="" type="radio"/> SIGMA ISCO		MODEL NUMBER	<input checked="" type="radio"/> 900 3700	

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED + CALIBRATED RAINGAGE, RESET SIGMA,
2	CLEANED INTAKE AREA.
3	

STORMWATER O&M LOG SHEET

SITE	40 TH ST. + IBW		DATE	6/6/02	
ARRIVAL TIME	0920	DEPARTURE TIME	0940	SERVICED BY	HEMAUER + FOSSUM
SAMPLER	SIGMA ISCO		MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.4 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <input checked="" type="radio"/> NO	
CALIBRATED DEPTH SENSOR	YES <input checked="" type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	REMOVED INTAKE STRAINER AND PT TIE DOWN,
2	FOR REPAIR.
3	

STORMWATER O&M LOG SHEET

SITE	40 TH ST. + IBW		DATE	6/7/02	
ARRIVAL TIME	1210	DEPARTURE TIME	1255	SERVICED BY	HEMAUER + FOSSUM
SAMPLER	<u>SIGMA</u>	ISCO	MODEL NUMBER	<u>900</u>	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<u>YES</u> NO	12.5 volts
SOLAR PANEL CLEAN	<u>YES</u> NO	
CABLES AND CONNECTIONS GOOD	<u>YES</u> NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	<u>YES</u> NO	
RAINGAGE (screen, funnel, tipping bucket)	<u>YES</u> NO	
SAMPLE TUBING (intake, pump, distributor)	<u>YES</u> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES <u>NO</u>	
CALIBRATED DEPTH SENSOR	YES <u>NO</u>	depth (in)
CALIBRATED SAMPLE VOLUME	YES <u>NO</u>	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE STRAINER, REATTACHED
2	PT, RESET SIGMA.
3	

STORMWATER O&M LOG SHEET

SITE	CAVE CREEK		DATE	4/15/02	
ARRIVAL TIME	13:00	DEPARTURE TIME	13:10	SERVICED BY	Fossum
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.6 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA - RESET.
2	
3	

STORMWATER O&M LOG SHEET

SITE	CAVE CREEK		DATE	05/21/02	
ARRIVAL TIME	0840	DEPARTURE TIME	0855	SERVICED BY	Fossum/Henauer
SAMPLER	SIGMA	ISCO	MODEL NUMBER	900	3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES NO	12.3 volts
SOLAR PANEL CLEAN	YES NO	
CABLES AND CONNECTIONS GOOD	YES NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES NO	
CALIBRATED DEPTH SENSOR	YES NO	depth (in)
CALIBRATED SAMPLE VOLUME	YES NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	PULLED DATA
2	
3	

STORMWATER O&M LOG SHEET

SITE	CAVE CREEK		DATE	6/5/02	
ARRIVAL TIME	1050	DEPARTURE TIME	1140	SERVICED BY	HEMAUER & FOSSUM
SAMPLER	SIGMA	<input checked="" type="radio"/> ISCO	MODEL NUMBER	900	<input checked="" type="radio"/> 3700

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.3 volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CELLULAR ANTENNA	YES <input type="radio"/> NO	
PHONE TONE	YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.
1 CLEANED + CALIBRATED RAINGAGE.
2
3

STORMWATER O&M LOG SHEET

SITE	CAVE CREEK		DATE	6/6/02	
ARRIVAL TIME	0840	DEPARTURE TIME	0855	SERVICED BY	HEMAUER & FOSSUM
SAMPLER	SIGMA	(ISCO)	MODEL NUMBER	900	(3700)

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	(YES) NO	12.4 volts
SOLAR PANEL CLEAN	(YES) NO	
CABLES AND CONNECTIONS GOOD	(YES) NO	
CELLULAR ANTENNA	YES NO	
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	(YES) NO	
SAMPLE TUBING (intake, pump, distributor)	(YES) NO	
CLEANED SAMPLE TUBING AND COLLECTION BOTTLE	YES (NO)	
CALIBRATED DEPTH SENSOR	YES (NO)	depth (in)
CALIBRATED SAMPLE VOLUME	YES (NO)	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	INSTALLED NEW INTAKE STRAINER, PULLED DATA
2	ONSITE.
3	