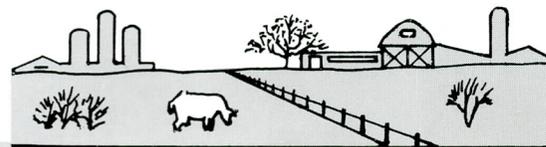
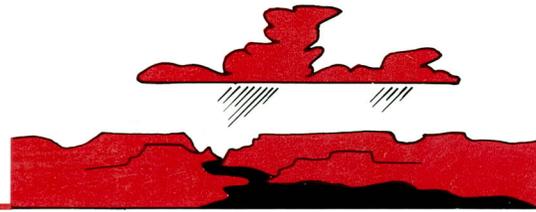


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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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

**Third & Fourth Quarter 2000
First Quarter 2001**

December 1, 2000

**FLOOD CONTROL
DISTRICT**

**OF
MARICOPA
COUNTY**

Stormwater Quality Report

Third and Fourth Quarter, Sampling Year 2000
First Quarter, Sampling Year 2001

January 1, 2000 through September 30, 2000

For
City of Phoenix, Arizona

December 1, 2000

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Prepared by:

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Water Quality Program Coordinator

Stormwater Quality Report
City of Phoenix, Arizona

Third & Fourth Quarter 2000
First Quarter 2001

December 1, 2000

Introduction

This report details the NPDES stormwater sampling activities during the winter, spring, and summer of 2000, which includes the period from January 1, 2000 through September 30, 2000.

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

During storm events, only representative storm events are sampled. A representative storm event is defined in the following manner:

PHOENIX	RAINFALL	DURATION
SUMMER	0.2 – 0.7 INCH	2.2 – 6.5 HOURS
WINTER	0.2 – 0.7 INCH	5.2 – 15.6 HOURS

and has no rainfall greater than 0.10 inches within the past 72 hours.

The storm duration is defined as the period when sustained rainfall begins and ending when the rainfall stops. Sustained rainfall is defined as rainfall that continues without a lapse of greater than 150 consecutive minutes. If a lapse greater than 150 consecutive minutes 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 (None Sampled)

This is a summary of storm events in the third and fourth quarters of fiscal year 2000 (January 1 - June 30, 2000) and the first quarter of fiscal year 2001 (July 1, 2000 - September 30, 2000). Any troubleshooting of the equipment is detailed in the Maintenance Summaries. Following is a description of the storm events. There were no representative events in this period and thus, no samples were taken.

Although there was some rainfall in February, and well-over 2 inches at most stations in March, no single storm met the NPDES criteria for a representative storm. The heavy rainfall received between March 5 and March 7 came in two separate storms, the first too short and light to qualify as a representative event but sufficient to disqualify any storm following within 72 hours from meeting the criteria. Even so, the storm that followed lasted too long and accumulated too much rain to fall within 50% of the mean values determined for Phoenix winter storms. The remainder of the rain events which occurred in June, July and

August were less than 2 hours in duration and as such were too short to meet the representative event criteria.

Other Storm Events Not Sampled

Events with rainfall > 0.20 inches but not sampled

SITE	DATE	RAIN	REASON NOT SAMPLED
SR49	3/5/00-3/7/00	2.29	72 HOUR RULE; RAIN >0.70 INCHES; DURATION TOO LONG
SR03	3/5/00-3/7/00	2.77	RAIN >0.70 INCHES; DURATION TOO LONG
SR30	3/5/00-3/7/00	2.82	72 HOUR RULE; RAIN >0.70 INCHES; DURATION TOO LONG
SR45	3/5/00	0.54	DURATION TOO SHORT
SR45	3/5/00-3/7/00	2.15	72 HOUR RULE; RAIN >0.70 INCHES; DURATION TOO LONG
SR45	3/31/00	0.21	DURATION TOO SHORT
SR45	6/20/00	0.30	DURATION TOO SHORT
SR45	8/26/00	0.22	DURATION TOO SHORT
ACDC43	3/5/00	0.23	DURATION TOO SHORT
ACDC43	3/5/00-3/7/00	2.32	72 HOUR RULE; RAIN >0.70 INCHES; DURATION TOO LONG
ACDC43	8/7/00	0.21	DURATION TOO SHORT
ACDC43	8/30/00	0.25	72 HOUR RULE; DURATION TOO SHORT
IB08	3/5/00-3/7/00	2.13	72 HOUR RULE; RAIN >0.70 INCHES; DURATION TOO LONG
IB08	6/24/00	0.23	DURATION TOO SHORT
IB08	8/17/00	0.49	DURATION TOO SHORT

No storms were representative.

Maintenance Summary

This section details maintenance activities and problems that occurred during the third and fourth quarters of fiscal year 2000 and the first quarter of fiscal year 2001. All water quality samplers are ISCO models except at the 40th Street and IBW (IB08) site that is fitted with a SIGMA 900 sampler.

The FCD and the USGS have been working on improving the reporting of maintenance and storm event log sheets. New forms were developed and there is now a better accounting of servicing later on in the year (not reflected completely in this report). We anticipate that future reports will be able to provide the City of Phoenix better documentation of the servicing and response to storm events.

SR49 – Salt River at 67th Avenue

The data logger and the battery were replaced on March 8. On June 9, 26, and July 10 the phone battery was replaced. Battery was switched out on August 7, 2000.

SR03 – Salt River at 35th Avenue

The data logger and the battery were replaced on March 8; the depth sensor and the sampler intake need to be replaced. Depth sensor and sampler intake were replaced (pers. Comm., Ken Fossum). Replaced nitrogen tank on March 14. Changed the phone battery on June 19, 26, and July 10. Changed battery out on August 7. Transmission errors dialing the sampler program up from the office.

SR30 – Salt River at 27th Avenue

Bubble gauge calibration on March 8 revealed accurate response; nitrogen tank pressure adequate. The data logger was replaced on March 10. Phone battery was replaced on June 19, 26, July 10 and August 18. Battery switched out on August 7, 2000. On August 11 and 18th, the sampler and intake tubing was cleaned and setup for sampling.

SR45 – Salt River at 40th Street

Vandalism to solar panel was noted on March 8 requiring its removal, and replacement of the battery. The site was cleaned and the data logger was replaced the following week. On June 20th, it was noted that the phone line was washed out. On June 26th, the PT was reattached to the bottom, the intake tubing was cleared and the sampler and tubing were cleaned. The phone company reinstalled the phone line. On August 18th, the sampler and intake tubing were cleaned.

ACDC43 – ACDC near Peoria and 43rd Avenue

The battery and the nitrogen supply tank for the bubble gauge were replaced on March 9 and the sampler intake line was flushed and decontaminated. Lack of a phone connection noted at that time was repaired by March 14. On August 18th, the sampler, bottles and intake tubing were cleaned.

IB08 – 40th Street at Indian Bend Wash

A low battery, noted after the early March, storm was replaced. Battery was changed out on June 20. On June 26th the tubing and PT were pulled out and permanently reattached to the culvert on July 10th. The bottles and sampler were cleaned out on June 26. Bottles were cleaned out on August 7 and 18th.

Data from Winter, Spring and Summer 2000

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

- Rainfall data from each monitoring site.
- Copies of maintenance and storm event log sheets.

Rainfall Data

Gauge Rainfall													
Gage Number	SR49												
Location	Salt River at 67th Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.70			
6										1.47			
7		0.70								0.26			
8													
9													
10													
11													
12													
13													
14		1.49		0.11									
15		0.06		0.12									
16													
17													
18			0.17										
19				0.15									
20													
21									0.13				
22													
23													
24													
25													
26													
27			0.35										
28		0.39								0.03			0.12
29													
30													
31			0.20										
Month Total		2.64	0.72	0.38	0.00	0.00	0.00	0.00	0.13	2.46	0.00	0.00	0.12

Gauge Rainfall												
Gage Number	SR03											
Location	Salt River at 35th Avenue											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5									0.72			
6									1.87			
7	0.73								0.28			
8												
9												
10												
11												
12												
13												
14	1.60		0.11									
15	0.06		0.11									
16												
17												
18		0.17										
19			0.17									
20												
21								0.11				
22												
23												
24												
25												
26												
27		0.50										
28	0.39											0.13
29												
30												
31		0.21							0.03			
Month Total	2.78	0.88	0.39	0.00	0.00	0.00	0.00	0.11	2.90	0.00	0.00	0.13

Gauge Rainfall													
Gage Number	SR30												
Location	Salt River at 27th Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.82			
6										1.82			
7		0.74								0.29			
8													
9													
10													
11													
12													
13													
14		1.72		0.10									
15		0.06		0.10									
16													
17													
18			0.17										
19				0.33									
20													
21									0.04				
22				0.03									
23													
24													
25													
26													
27			1.47										
28		0.38											0.12
29													
30													
31			0.23										
Month Total		2.90	1.87	0.56	0.00	0.00	0.00	0.00	0.04	2.93	0.00	0.00	0.12

Gauge Rainfall												
Gage Number	SR45											
Location	Salt River at 40th Street											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5									1.77			
6									1.43			
7									0.25			
8												
9												
10												
11												
12												
13												
14												
15			0.10									
16												
17												
18												
19			0.55									
20												0.30
21												
22			0.04									
23												
24												
25												
26												
27												
28												
29												
30												
31									0.21			
Month Total	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.30

Gauge Rainfall													
Gage Number	ACDC43												
Location	ACDC at 43rd Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5			0.18							0.82			
6		0.12								1.40			
7		0.10								0.33			
8													
9													
10		0.07	0.48										
11				0.38									
12													
13													
14		0.30		0.10									
15		1.10											
16													
17													
18			0.15										
19				0.59									
20													
21								0.17					
22				0.04									
23				0.37									
24													
25													
26													
27			0.05										
28										0.06			
29		0.15											
30													
31			0.02							0.06			
Month Total		1.84	0.88	1.48	0.00	0.00	0.00	0.00	0.17	2.67	0.00	0.00	0.00

Gauge Rainfall												
Gage Number	IB08											
Location	40th Street at Indian Bend Wash											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5									0.75			
6									1.26			
7	0.34								0.28			
8												
9												
10												
11												
12												
13												
14	0.66		0.05									
15	0.22											
16												
17												
18												
19			1.01									
20												
21												
22		0.06										
23	0.17											
24												0.23
25												
26												
27		0.76										
28									0.04			
29												
30												
31												
Month Total	1.39	0.82	1.06	0.00	0.00	0.00	0.00	0.00	2.33	0.00	0.00	0.23

Gauge Rainfall													
Gage Number	4500												
Location	Cesar Chavez Park												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.43			
6										1.34			
7		0.91								0.24			
8													
9													
10													
11													
12													
13													
14		1.06		0.08									
15		0.04		0.47									
16													
17													
18			0.04										
19				0.20									
20													
21													
22				0.04									
23													0.04
24													
25													
26													
27			0.67										
28		1.26	0.04										0.08
29													
30													
31			0.12										
Month Total		3.27	0.87	0.79	0.00	0.00	0.00	0.00	0.00	2.01	0.00	0.00	0.12

Gauge Rainfall												
Gage Number	4510											
Location	Roeser at Second Street											
	July	August	September	October	November	December	January	February	March	April	May	June
	1999	1999	1999	1999	1999	1999	2000	2000	2000	2000	2000	2000
1												
2												
3												
4												
5									0.79			
6									1.54			
7	0.39								0.24			
8												
9												
10												
11												
12												
13												
14	1.02		0.08									
15	0.08		0.04									
16												
17												
18		0.08										
19			0.83									
20												0.04
21												
22												
23												
24												
25	0.04											
26												
27		0.55										
28	0.31	0.04										0.04
29												0.04
30												
31		0.43										
Month Total	1.84	1.10	0.95	0.00	0.00	0.00	0.00	0.00	2.57	0.00	0.00	0.12

Gauge Rainfall													
Gage Number	4600												
Location	IBW at McKellips Road												
	July	August	September	October	November	December	January	February	March	April	May	June	
	1999	1999	1999	1999	1999	1999	2000	2000	2000	2000	2000	2000	
1			0.04										
2													
3													
4													
5		0.08							0.67				
6	0.16								1.57				
7	1.34								0.31				
8													
9													
10	0.04												
11													
12													
13													
14	0.75												
15	0.55												
16													
17													
18	0.04												
19		0.08	1.26										
20													
21													
22													
23			0.04										
24	0.04												
25													
26													
27		0.55											
28									0.04				
29													
30													
31		0.20							0.31				
Month Total	2.92	0.91	1.34	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	

Gauge Rainfall													
Gage Number	4610												
Location	IBW at Indian Bend Road												
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000	
1													
2													
3													
4													
5	0.08								0.83				
6	0.43								1.54				
7	1.02								0.35				
8													
9													
10	0.47												
11													
12													
13													
14	0.79		0.08										
15	0.08		0.24										
16			0.04										
17													
18	0.04												
19			0.47										
20			0.16										0.39
21			0.04										
22			0.04										0.67
23	0.20												
24													
25													
26													
27		0.08											
28									0.12				0.08
29	0.04												
30													
31		0.43											
Month Total	3.15	0.51	1.07	0.00	0.00	0.00	0.00	0.00	2.84	0.00	0.00	1.14	

Gauge Rainfall													
Gage Number	4630												
Location	Thunderbird Academy - near Thunderbird and Scottsdale Roads												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.63			
6		0.24								1.26			
7		0.51								0.31			
8													
9													
10													
11									***				
12									***				
13									***				
14		0.79		0.20									
15		0.20											
16													
17													
18		0.20											
19			0.16	0.75									
20													
21													
22													0.04
23													0.43
24													
25													
26													
27			0.39										
28										0.08			
29													
30													
31													
Month Total		1.94	0.55	0.95	0.00	0.00	0.00	0.00	0.00	2.28	0.00	0.00	0.47

Gauge Rainfall													
Gage Number	4640												
Location	IBW and Sweetwater Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5			0.47							0.59			
6										1.26			
7		0.31								0.28			
8		0.04											
9													
10													
11									...				
12									...				
13		0.31											
14		0.59		0.04									
15		0.28											
16													
17													
18		0.63											
19				0.94									
20													
21													
22													0.08
23		0.28											0.31
24													
25													
26													
27			0.75										
28										0.04			
29		0.55											
30													
31													
Month Total		2.99	1.22	0.98	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.39

Gauge Rainfall													
Gage Number	4650												
Location	Paradise Valley Park - near Union Hills Drive at 32nd Street												
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000	
1													
2													
3													
4													
5		0.39							0.91				
6	0.16								1.10				
7	0.24								0.28				
8													
9													
10													
11													
12													
13													
14	1.34		0.28										
15	0.24												
16									...				
17													
18	0.91	0.08											
19			0.16										
20													
21									0.28				
22	0.39											0.04	
23	0.39											0.67	
24													
25													
26													
27		0.51											
28									0.04				
29	0.20												
30													
31													
Month Total	3.87	0.98	0.44	0.00	0.00	0.00	0.00	0.28	2.33	0.00	0.00	0.71	

Gauge Rainfall													
Gage Number		4700											
Location		FCD - Durango Street at 27th Avenue											
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.59			
6										1.38			
7		0.59								0.28			
8													
9													
10													
11				0.08									
12													
13													
14		1.46		0.16									
15		0.20		0.08									
16													
17													
18			0.12										
19				0.16									
20													
21									0.12				
22													
23													
24													
25													
26													
27			1.57										
28		0.31	0.08										0.08
29													
30													
31			0.20										
Month Total		2.56	1.97	0.48	0.00	0.00	0.00	0.00	0.12	2.25	0.00	0.00	0.08

Gauge Rainfall													
Gage Number	4710												
Location	Jefferson at 4th Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.51			
6		0.12								1.38			
7		0.63								0.43			
8													
9													
10													
11													
12													
13													
14		1.18		0.04									
15		0.16											
16													
17													
18			0.04										
19				0.31									
20													
21													
22				0.04									0.04
23													
24													
25													
26													
27			0.71										
28		0.12											0.04
29													
30													
31			0.08										
Month Total		2.21	0.83	0.39	0.00	0.00	0.00	0.00	0.00	2.32	0.00	0.00	0.08

Gauge Rainfall													
Gage Number		4730											
Location		near Thomas Road and 32nd Street											
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
	1												
	2												
	3												
	4												
	5									0.71			
	6	0.04								1.26			
	7	0.28								0.39			
	8												
	9												
	10	0.04	0.08										
	11			0.08									
	12			0.04									
	13												
	14	1.22		0.04									
	15	0.39											
	16												
	17												
	18	0.35											
	19			0.43									
	20												0.31
	21												
	22		0.08										0.08
	23												
	24												
	25												
	26												
	27		0.28										
	28									0.08			0.08
	29												
	30			0.04									
	31		0.04										
	Month Total	2.32	0.48	0.63	0.00	0.00	0.00	0.00	0.00	2.44	0.00	0.00	0.47

Gauge Rainfall													
Gage Number	4740												
Location	Papago Park - near McDowell Road and 52nd Street												
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000	
1													
2													
3													
4													
5									0.63				
6	0.28								1.38				
7	0.35								0.24				
8													
9													
10	0.08												
11			0.04										
12			0.04										
13													
14	0.63		0.04										
15	0.31												
16													
17													
18	0.51												
19	0.04		0.94										
20													0.43
21													0.04
22		0.08	0.04										0.31
23	0.04												
24													
25													
26													
27		0.24											
28									0.04				
29	0.35												
30													
31		0.04							0.12				
Month Total	2.59	0.36	1.10	0.00	0.00	0.00	0.00	0.00	2.41	0.00	0.00	0.78	

Gauge Rainfall												
Gage Number	4750											
Location	Thomas Road at 48th Street											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4	0.16											
5		0.43						0.83				
6	0.04							1.42				
7	0.20							0.31				
8												
9												
10												
11												
12		0.08	0.04									
13												
14	1.30		0.04									
15	0.47											
16												
17												
18	0.31											
19			0.79									
20												0.20
21												0.04
22			0.04									0.16
23	0.08											
24												
25												
26												
27		0.35										
28								0.04				0.08
29	0.24											0.04
30												
31								0.12				
Month Total	2.80	0.86	0.91	0.00	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.52

Gauge Rainfall													
Gage Number		4760											
Location		Maryvale Municipal Golf Course - near Indian School Road and 59th Avenue											
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.83			
6										1.34			
7		0.35								0.24			
8													
9													
10			0.31										
11				0.12									
12													
13													
14		0.20											
15		0.59											
16													
17													
18													0.04
19				0.08									
20													
21									0.04				
22			0.24										0.20
23				0.04									
24													
25													
26													
27			1.57										
28										0.04			
29		0.04											
30													
31													
Month Total		1.18	2.12	0.24	0.00	0.00	0.00	0.00	0.04	2.45	0.00	0.00	0.24

Gauge Rainfall													
Gage Number	4780												
Location	Missouri Avenue at 16th Street												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4			0.04										
5										0.55			
6										1.30			
7		0.55								0.28			
8													
9													
10													
11				0.16									
12													
13													
14		1.85											
15		0.59											
16													
17													
18			0.04										
19				0.12									
20													
21									0.04				
22				0.04									0.12
23													
24													
25													
26													
27			0.55										
28										0.04			0.04
29													
30													
31			0.04										
Month Total		2.99	0.67	0.32	0.00	0.00	0.00	0.00	0.04	2.17	0.00	0.00	0.16

Gauge Rainfall													
Gage Number		4780											
Location		Missouri Avenue at 16th Street											
		July 2000	August 2000	September 2000	October 2000	November 2000	December 2000	January 2001	February 2001	March 2001	April 2001	May 2001	June 2001
	1		***										
	2		***										
	3		***										
	4		***		0.31								
	5		***										
	6		***			0.12							
	7	0.08	0.35										
	8												
	9												
	10				0.79								
	11												
	12												
	13												
	14												
	15												
	16												
	17		0.83										
	18												
	19				0.20								
	20												
	21				0.08								
	22				0.39								
	23				0.24								
	24				0.04								
	25												
	26												
	27				0.59								
	28				0.04								
	29		0.59										
	30	0.16			0.28								
	31												
	Month Total	0.24	1.77	0.00	2.96								

Gauge Rainfall													
Gage Number	4800												
Location	Dreamy Draw Dam												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5										0.63			
6										1.34			
7		0.35								0.28			
8													
9													
10													
11													
12													
13													
14		0.51		0.04									
15		0.28											
16													
17													
18													
19				0.35									
20													
21													
22													
23		0.20											
24													
25													
26													
27			0.28										
28										0.12			
29													
30													
31													
Month Total		1.34	0.28	0.39	0.00	0.00	0.00	0.00	0.00	2.37	0.00	0.00	0.00

Gauge Rainfall													
Gage Number	4820												
Location	ACDC at 43rd Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5			0.08							0.67			
6		0.12								1.14			
7										0.31			
8													
9													
10		0.04	0.28										
11				0.24									
12													
13													
14		0.12											
15		0.75											
16													
17													
18			0.08										
19				0.35									
20													
21													
22									...				
23				0.24									
24													
25													
26													
27													
28										0.04			
29		0.08											
30													
31										0.04			
Month Total		1.11	0.44	0.83	0.00	0.00	0.00	0.00	0.00	2.20	0.00	0.00	0.00

Gauge Rainfall												
Gage Number	4830											
Location	Cave Creek Wash at Cactus Road											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5		0.24						0.63				
6	0.35							1.06				
7	0.87							0.28				
8												
9												
10		0.04										
11			0.08									
12												
13												
14	0.59		0.04									
15	0.59											
16												
17												
18		0.04										
19			0.51									
20												
21								0.24				
22												
23			0.04									
24												
25												
26												
27		0.28										
28								0.04				
29												
30												
31												
Month Total	2.40	0.60	0.67	0.00	0.00	0.00	0.00	0.24	2.01	0.00	0.00	0.00

Gauge Rainfall													
Gage Number		4840											
Location		Greenway Road at 32nd Avenue											
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													
5			0.39							0.67			
6		0.47								1.06			
7		0.59								0.31			
8													
9													
10			0.35										
11				0.04									
12				0.04									
13													
14		0.59		0.24									
15		0.47											
16													
17													
18			0.04										
19				0.24									
20													
21									0.12				
22		0.04		0.04									
23				0.28									
24													0.31
25													
26													
27													
28			0.04							0.04			
29		0.20											
30													
31										0.04			
Month Total		2.36	0.82	0.88	0.00	0.00	0.00	0.00	0.12	2.12	0.00	0.00	0.31

Gauge Rainfall												
Gage Number	4900											
Location	Cave Buttes Dam											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2							0.12					
3												
4												
5								0.71				
6	0.12							1.06				
7	0.08							0.31				
8												
9												
10		0.04										
11			0.08									
12												
13												
14	0.16		0.04									
15	0.47		0.04									
16												
17												
18	0.08											
19		0.08	0.04									
20												
21								0.04				
22			0.04									
23			0.08									0.08
24												0.04
25												
26												
27		0.08										
28								0.04				
29												
30												
31									0.08			
Month Total	0.91	0.20	0.32	0.00	0.00	0.00	0.12	0.04	2.20	0.00	0.00	0.12

Gauge Rainfall												
Gage Number	5400											
Location	Agua Fria at Buckeye Road											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5									0.75			
6									1.34			
7	0.39								0.24			
8												
9												
10		0.08										
11												
12			0.04									
13												
14	0.08											
15	0.31		0.12									
16												
17												
18												0.35
19			0.24									
20												
21								0.12				
22		0.04										0.04
23	0.04		0.04									
24												
25												
26												
27	0.04	0.55										
28	0.75											0.39
29	0.04											
30		0.04										
31									0.08			
Month Total	1.65	0.71	0.44	0.00	0.00	0.00	0.00	0.12	2.41	0.00	0.00	0.78

Gauge Rainfall													
Gage Number	5505												
Location	New River at Glendale Avenue												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1										***			
2										***			
3										***			
4										***			
5										***			
6										***			
7		0.20								***			
8										***			
9										***			
10		0.08	0.04							***			
11				0.04						***			
12										***			
13										***			
14										***			***
15		0.31								***			
16										***			
17										***			
18			0.04							***			
19				0.12						***			
20										***			
21									0.04	***			
22										***			
23				0.04						***			
24										***			
25			0.04							***			
26										***			
27		0.08								***			
28										***			
29									***	***			
30										***			
31			0.04							***			
Month Total		0.67	0.16	0.20	0.00	0.00	0.00	0.00	0.04	***	0.00	0.00	0.00

Gauge Rainfall												
Gage Number	5535											
Location	Adobe Dam											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2							0.04					
3												
4												
5									0.63			
6	0.75								0.98			
7	0.20								0.35			
8												
9												
10												
11			0.12					***				
12								***				
13												
14	0.04		0.08									
15	0.20		0.08									
16												
17												
18		0.08										
19			0.20									
20												
21								0.04				
22			0.04									
23			0.51									0.08
24												0.04
25												
26												
27	0.12	0.04										
28												
29	0.12											
30												
31									0.04			
Month Total	1.43	0.12	1.03	0.00	0.00	0.00	0.04	0.04	2.00	0.00	0.00	0.12

Gauge Rainfall													
Gage Number	5535												
Location	Adobe Dam												
		July 2000	August 2000	September 2000	October 2000	November 2000	December 2000	January 2001	February 2001	March 2001	April 2001	May 2001	June 2001
1													
2													
3													
4					0.08								
5			0.08										
6													
7			0.08										
8													
9													
10					0.12								
11													
12													
13													
14													
15													
16													
17													
18					0.08								
19													
20					...								
21					0.12								
22					0.47								
23					0.31								
24					0.20								
25													
26				0.04									
27					0.43								
28													
29			0.83										
30			0.35		0.67								
31													
Month Total		0.00	1.34	0.04	2.48								

Gauge Rainfall												
Gage Number	5550											
Location	Deer Valley Airport											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1										0.04		
2							0.12					
3												
4												
5		0.12							0.75			
6	0.63								0.91			
7	0.35								0.20			
8												
9												
10	0.16	0.35										
11			0.43									
12			0.04									
13												
14	0.43		0.16									
15	0.47		0.04									
16		0.04										
17												
18												
19		0.04	0.12									
20												
21								0.20	0.04			
22	0.04											
23			0.24									0.12
24												
25												
26												
27		0.39										
28									0.04			
29	0.08											
30												
31									0.16			
Month Total	2.16	0.94	1.03	0.00	0.00	0.00	0.12	0.20	2.10	0.04	0.00	0.12

Gauge Rainfall													
Gage Number		5565											
Location		Skunk Creek at I-17											
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
	1												
	2							0.16					
	3												
	4									0.04			
	5									0.71			
	6	1.02								0.94			
	7	0.51								0.28			
	8	0.04											
	9												
	10	0.24											
	11	0.04		0.59									
	12												
	13												
	14	0.79		0.16									
	15	0.87		0.20									
	16												
	17									***			
	18									***			
	19		0.04	0.16						***			
	20												
	21								0.12				
	22												
	23			0.51					***				0.08
	24								***				
	25								***				
	26												
	27	0.04	0.08										
	28									0.04			
	29	0.20											
	30												
	31												
Month	Total	3.75	0.12	1.62	0.00	0.00	0.00	0.16	0.12	2.01	0.00	0.00	0.08

Gauge Rainfall												
Gage Number	5595											
Location	New River and Bell Road											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2												
3												
4												
5								0.67				
6	0.71							0.98				
7	0.20							0.20				
8												
9												
10	0.16											
11	0.04		0.08									
12			0.04									
13												
14	0.12		0.51									...
15	0.55											...
16												
17												
18												
19			0.63									
20												
21								0.08				
22								0.04				0.04
23			0.28									
24												
25												
26												
27	0.04											
28												
29												
30												
31												
Month Total	1.82	0.00	1.54	0.00	0.00	0.00	0.00	0.12	1.85	0.00	0.00	0.04

Gauge Rainfall													
Gage Number	6500												
Location	Guadalupe FRS												
		July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1													
2													
3													
4													...
5										0.20			...
6										0.87			
7		0.04								0.28			
8				0.04									
9													
10													
11													
12													
13				0.04									
14		0.16		0.16									
15		0.08											
16				0.04									
17				0.04									
18		0.04		0.04									
19				0.35									
20													0.16
21													
22				0.08									0.16
23				0.04									
24													
25													
26													
27			0.35										
28													0.08
29		0.08											
30											0.04		
31										0.08			
Month Total		0.40	0.35	0.83	0.00	0.00	0.00	0.00	0.00	1.43	0.04	0.00	0.40

Gauge Rainfall												
Gage Number	6510											
Location	South Mountain Park											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2							0.04					
3												
4												
5									0.91			
6									1.34			
7	0.63								0.28			
8												
9												
10												
11												
12												
13												
14	0.98		0.04									
15	0.28		0.16									
16												
17												
18		0.04										
19			0.63									
20												1.26
21												
22			0.24									0.08
23												
24												
25	0.12											
26												
27		0.20										
28	0.20											0.08
29												0.08
30												
31		0.35							0.12			
Month Total	2.21	0.59	1.07	0.00	0.00	0.00	0.04	0.00	2.65	0.00	0.00	1.50

Gauge Rainfall												
Gage Number	6560											
Location	South Mountain Fan											
	July 1999	August 1999	September 1999	October 1999	November 1999	December 1999	January 2000	February 2000	March 2000	April 2000	May 2000	June 2000
1												
2							0.08					
3												
4												
5									0.67			
6									1.77			
7	1.93								0.24			
8	0.04											
9												
10	0.20											
11			0.04									
12												
13												
14	1.61		0.04									
15	0.04		0.16									
16									...			
17												
18	0.12											
19			0.67									
20												0.04
21									0.04			
22												0.04
23												
24												
25												
26												
27	0.04	0.24										
28	1.02											0.98
29	0.04											0.04
30												
31												
Month Total	5.04	0.24	0.91	0.00	0.00	0.00	0.08	0.04	2.68	0.00	0.00	1.10

Maintenance & Storm Event Log Sheets

SR49 – Salt River at 67th Avenue

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

67th Ave + Southern	3/8/00
12:00	KD Fossum, A. Rees, BT Wilson
ISCO	

	REMOVED REPLACED	CONDITION	REPAIR NEEDS	REPAIR NEEDS	
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Switched out data logger card. Need to bring silicon for hole on top of shelter.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

67 TH AVE AND SAET		6/19/2000	
1320	1900	REES	

	YES NO	GOOD FAIR POOR	YES NO	YES NO	
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	volts
SOLAR PANEL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CONNECTION CABLES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
RAINGAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	N/A	N/A	

NOTES / ACTIONS SET UP FOR SAMPLING, REPLACED PHONE BATTERY, FIXED PHONE.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

6TH AVE & SALT		6/26/2000	
11:15	11:45	REES & FOSSUM	
ISCO 3700		W-495220	

	OPERATION	CONDITION	YES	NO	
BATTERY VOLTAGE	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES <input checked="" type="radio"/> NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES <input checked="" type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS REPLACED PHONE BATTERY, SILICONED HOLES IN BOX. ISCO W-495220

FCD/USGS STORMWATER O&M LOG SHEET

SITE	6TH AVE. + SALT		DATE	7/10/2000	
ARRIVAL TIME	12:00	DEPARTURE TIME	12:30	SERVICED BY	
				REES + WILSON	
SAMPLER		SIGMA OR <input checked="" type="radio"/> ISCO		MODEL NUMBER	800 900 <input checked="" type="radio"/> 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 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 (tap, liquinox, tap, nitric, DI)	<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	REPLACED PHONE BATTERY
2	
3	

FCD/USGS STORMWATER O&M LOG SHEET

SITE	67th Ave + SALT		DATE	8/7/00	
ARRIVAL TIME	1:10	DEPARTURE TIME	1:25	SERVICED BY	Wilson + Rees
SAMPLER	SIGMA OBTISCO		MODEL NUMBER	800	900
<input checked="" type="radio"/> other					

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES <input checked="" type="radio"/> NO	Switched out battery, ^{ok now} volts
SOLAR PANEL CLEAN	<input checked="" type="radio"/> YES NO	
CABLES AND CONNECTIONS GOOD	<input checked="" type="radio"/> YES NO	
CELLULAR ANTENNA	<input checked="" type="radio"/> YES NO	
PHONE TONE	<input checked="" type="radio"/> YES NO	
RAINGAGE (screen, funnel, tipping bucket)	<input checked="" type="radio"/> YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES <input checked="" type="radio"/> NO	
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	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 Everything working ok
2
3

SR03 – Salt River at 35th Avenue

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

35 th Ave	.3/8/00	
11:00	11:40	KDFossum, BJWilson, A.Reed
ESCO		

	CHECKED / CERTIFIED / MAINTAINED	CONDITION	REPAIRED?	REPAIRING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Intake pulled out, needs replacing/possibly weld it to inside of valve +
Pulled can + replaced. Need to bring extra can to test.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

35 th Ave	3/14/00
6:42	10:59
ISCO	Bq Wilson

	MAINTENANCE SERVICED / CALIBRATED	CONDITION	RECALIBRATE	RECALIBRATE	UNIT
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Replace Nitrogen Tank

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

39TH AVE & SALT		6/19/2000	
11:20		13:00	REES

	YES NO	GOOD FAIR POOR	YES NO	YES NO	
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	volts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> N/A	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	N/A	N/A	

NOTES / ACTIONS SET SITE UP FOR SAMPLING, CHANGE PHONE BATTERY, FIRED PHONE.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

35TH AVE. AND SALT		6/26/2000	
11:00	11:15	REES + FOSSUM	
Isco 3700		W-495219	

	YES NO	GOOD FAIR POOR	YES NO	YES NO	
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	votts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Isco W-495219, CHANGED PHONE BATTERY

FCD/USGS STORMWATER O&M LOG SHEET

SITE	35 TH AVE. + SALT		DATE	7/10/2000	
ARRIVAL TIME	11:00	DEPARTURE TIME	11:30	SERVICED BY	REES + WILSON
SAMPLER	SIGMA OF <u>ISCO</u>		MODEL NUMBER	800 900	<u>other</u>

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 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 (tap, liquinox, tap, nitric, DI)	<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	

FCD/USGS STORMWATER O&M LOG SHEET

SITE	35 th Ave + SALT		DATE	8-7-00	
ARRIVAL TIME	1245	DEPARTURE TIME	1:00	SERVICED BY	Wilson + Rees
SAMPLER	SIGMA OF ISCO		MODEL NUMBER	800 900	other

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	YES <input checked="" type="radio"/> NO	Changed out battery 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	Disabled up from Program at office, works now. (Collected data from site)
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 (tap, liquinox, tap, nitric, DI)	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 Was not able to dial up site from office. Transmission Error. Battery
2 switched out.
3

STORM EVENT LOG SHEET

1. Site: 35th Ave

Your Name: CINDY HAYEK, BERT DIET,
BARB WILSON

2. Date: 8/8/00

Time: 0520-0535

SAMPLER PARAMETERS

3. Rainfall: .09 in

4. Flow: No Flow cfs

5. Level: in

6. Velocity: ft/sec

O&M PARAMETERS

7. Did sampling equipment operate during event? Yes or No? Describe problems.
No Flow

8. Battery voltage: 12.4 volts

9. Power On or Off? If power off (Mesa), reset circuit breaker and check/replace fuse if necessary.

FIELD PARAMETERS

10. Discharge (flow) at time of grabs No Flow cfs

11. pH su

12. Temperature deg. C

GRAB SAMPLES Take grabs from discharge only!

13. Grab samples taken? Yes or No?

14. Preservatives added to bottles? Yes or No?

FCD/USGS STORMWATER O&M LOG SHEET

SITE	35 th Ave + SR.		DATE	8/18/02		
ARRIVAL TIME	1205	DEPARTURE TIME	1235	SERVICED BY	Kd. Tasson + G. J. ...	
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900	other

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	check w/ laptop, PC
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 (tap, liquinox, tap, nitric, DI)	<input checked="" type="radio"/> YES <input type="radio"/> NO	
CALIBRATED DEPTH SENSOR	<input type="radio"/> YES <input type="radio"/> NO	depth (in)
CALIBRATED SAMPLE VOLUME	<input type="radio"/> YES <input type="radio"/> NO	ml

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

1	Checked [unclear] and [unclear] + [unclear]
2	[unclear]
3	[unclear]

SR30 – Salt River at 27th Avenue

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

27th Ave		3/8/00	
10:30		11:00	K. Afssam, B. Wilson, A. Lees
ISCO			

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPAIR NEEDED	REPAIR NEEDED	UNIT
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	volts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> N/A	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES <input checked="" type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES <input checked="" type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES <input checked="" type="radio"/> NO	GOOD <input checked="" type="radio"/> FAIR POOR	N/A	N/A	

NOTES / ACTIONS Nitrogen tank + bubble rate are good

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

27 th Ave	Fri 9/10/00	
1:30	1:45	B. Wilson
ISCO		

	CHECKED REVIEWED DATE/TIME	CONDITION	REPAIR NEEDS	REPAIR NECESSARY	
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Replaced data can'

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

27th AVE. ANDS AL		6/19/2000	
0900	1100	REES	

	OPERATED MAINTENANCE	CONDITION	REPAIR NECESSARY	REPAIR NECESSARY	UNITS
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

SET UP SITE FOR SAMPLING, REPLACED PHONE BATTERY.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

27TH AVE AND SALT		6/26/2000	
10:45	11:00	REES + FOSSUM	

	YES NO	GOOD FAIR POOR	YES NO	YES NO	
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS REPLACED PHONE BATTERY

FCD/USGS STORMWATER O&M LOG SHEET

SITE	27 TH AVE + SALT		DATE	7/10/2000	
ARRIVAL TIME	10:00	DEPARTURE TIME	10:30	SERVICED BY	REES + WILSON
SAMPLER	SIGMA OR <input checked="" type="radio"/> ISCO		MODEL NUMBER	800	900 <input checked="" type="radio"/> 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 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 (tap, liquinox, tap, nitric, DI)	<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 PHONE BATTERY
2	
3	

FCD/USGS STORMWATER O&M LOG SHEET

SITE	27th Ave + SALT		DATE	8/7/00	
ARRIVAL TIME	1:30	DEPARTURE TIME	1:40	SERVICED BY	
SAMPLER		SIGMA OR <u>ISCO</u>		MODEL NUMBER	800 900 <u>other</u>
Wilson + Rees					

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

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

1 Everything working OK.

2

3

STORM EVENT LOG SHEET

1. Site: 27th Ave

Your Name: CINDY HAYEK, BERT DIET, BARB WILSON

2. Date: 8/8/00

Time: 0432 - 0501

SAMPLER PARAMETERS

3. Rainfall: .16 in

4. Flow: TRICKLE cfs

5. Level: in

6. Velocity: ft/sec

O&M PARAMETERS

7. Did sampling equipment operate during event? Yes or No? Describe problems.
ONLY 1 LITER - DUMPED SAMPLE, DID NOT MEET CRITERIA

GRAB SAMPLE TAKEN - 0437 - 0445 - DUMPED

8. Battery voltage: 12.3 volts

9. Power On or Off? If power off (Mesa), reset circuit breaker and check/replace fuse if necessary.

FIELD PARAMETERS

10. Discharge (flow) at time of grabs No Flow OR VERY Low cfs

11. pH su

12. Temperature AIR = 26°C , WATER = 25.5°C deg. C

GRAB SAMPLES Take grabs from discharge only!

13. Grab samples taken? Yes or No?

14. Preservatives added to bottles? Yes or No?

FCD/USGS STORMWATER O&M LOG SHEET

SITE	27TH AVE & SALT		DATE	8/11/2000	
ARRIVAL TIME	13:30	DEPARTURE TIME	14:30	SERVICED BY	Fossun + Wilson
SAMPLER	SIGMA OR <u>SCO</u>		MODEL NUMBER	800 900	<u>Other</u>

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<u>YES</u> NO	volts
SOLAR PANEL CLEAN	<u>YES</u> NO	
CABLES AND CONNECTIONS GOOD	<u>YES</u> NO	
CELLULAR ANTENNA	<u>YES</u> 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 (tap, liquinox, tap, nitric, DI)	<u>YES</u> NO	
CALIBRATED DEPTH SENSOR	<u>NO</u> YES	depth (in)
CALIBRATED SAMPLE VOLUME	<u>NO</u> YES	ml

SPECIFY ITEMS REMOVED/REPLACED/REPAIRED/INSTALLED. INCLUDE SERIAL NO IF SAMPLER OR PT INSTALLED/REMOVED.	
1	CLEANED SAMPLER, INTAKE TUBING, SETUP FOR SAMPLING
2	
3	

FCD/USGS STORMWATER O&M LOG SHEET

SITE	27th + SR		DATE	2/18/00	
ARRIVAL TIME	12:40	DEPARTURE TIME	1:00	SERVICED BY	Kd fassun + B j wilson
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800 900 other	

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	
SAMPLE TUBING (intake, pump, distributor)	<input checked="" type="radio"/> YES <input type="radio"/> NO	CLEANED
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	<input checked="" type="radio"/> YES <input type="radio"/> NO	CLEANED
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	.025 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 SAMPLER + INTAKE, CHANGED PHONE BATTERY

2

3

SR45 – Salt River at 40th Street

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40 th + Salt		3-8-00	
10:00am	10:30	KD Fossum, B. Wilson, A. Res	
ISCO sampler			

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	NEEDS REPAIR	NEEDS REPAIR/YES	REMARKS
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	12:88 volts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO N/A	GOOD FAIR <input checked="" type="radio"/> POOR	YES NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	Removed
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	bent
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	YES <input checked="" type="radio"/> NO	YES <input checked="" type="radio"/> NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Cleaned site, changed battery, pulled solar panel + plexi glass cover.

Solar panel was vandalized

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

46th + Salt	3/14/00	
10:10	10:20	Bq Wilson
Isco		

	CHECKED / REVIEWED / CALIBRATED	CONDITION	REPAIRS NEEDED	REPAIRS COMPLETED	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Replaced data can.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40TH ST. AND SALT	6/20/2000
15:00	16:00
WILSON + FOSSUM	

	<input type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	volts
SOLAR PANEL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
CONNECTION CABLES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
RAINGAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	plugged depth (feet)
SAMPLER PUMP TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	
DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS PHONE LINE WAS WASHED OUT. CALL
 FCDMC.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40TH AND GALT RIVER		6/26/2000	
10:00		10:30	REES + FOSSUM
Isco 3700		W-495221	

	OPERATIONAL	CONDITION	REPAIRS	REMARKS	UNITS
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS REATTACHED PT TO BOTTOM, CLEARED INTAKE TUBING,
 CLEANED SAMPLER & TUBING, PHONE COMPANY IS RE-
 INSTALLING PHONE LINE.
 CR10 - W-564038.

FCD/USGS STORMWATER O&M LOG SHEET

SITE	40 th St + SR		DATE	8/8/02		
ARRIVAL TIME	5:55	DEPARTURE TIME	6:15		SERVICED BY	Wilson
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900	<input checked="" type="radio"/> 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 checked="" type="radio"/> YES <input type="radio"/> NO	
PHONE TONE	<input checked="" type="radio"/> YES <input type="radio"/> NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	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	Checked bottle appears to be clean & ready to go.
2	
3	

FCD/USGS STORMWATER O&M LOG SHEET

SITE	40 th St + SR.		DATE	8/18/00	
ARRIVAL TIME	1:15	DEPARTURE TIME	1:35	SERVICED BY	Kdfossum + bjw. / soa
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900 other

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<input checked="" type="radio"/> YES <input type="radio"/> NO	12.1 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 checked="" type="radio"/> NO	NONE
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 type="radio"/> YES <input checked="" type="radio"/> NO	CLEANED
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	<input type="radio"/> YES <input checked="" type="radio"/> NO	CLEANED
CALIBRATED DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	.021 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 SAMPLER & INTAKE
2	
3	

ACDC43 – ACDC near Peoria and 43rd
Avenue

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

Peoria Ave. 09513885		3/9/00	
1080	1110	100 Fossum, BSW, Iowa	
Esco			

	CHECKED/SERVICED/CALIBRATED	CONDITION	NEEDS/YES/NO	ISSUES/REPAIRS/YES/NO	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.65 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Phone line dead, will call phone company.
 Flushed line, switched out Nitrogen tank.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

	2/14/00 Peoria #43 ed		3/14/00
11:40	11:50	B. Wilson	
ISCO			

	CHECKED / SERVICE / CALIBRATED	CONDITION	REPAIRS / NOTES	REPAIRS / NOTES	
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Went to site + called office to see if line is open. Dan answered and it appears to be working now.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

43 RD AVE + PEORIA		6/20/2000	
11:10	13:00	REES	

	OPERATIONAL SERVICE NUMBER / YES	SENSITIVITY	REPAIR NUMBER / YES	REPAIR REQUENCY / YES	
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS SET UP FOR SAMPLING

FCD/USGS STORMWATER O&M LOG SHEET

SITE	Pearl + 43rd Ave		DATE	8/18/00	
ARRIVAL TIME	11:20	DEPARTURE TIME	11:45	SERVICED BY	Kd Fossom + B. J. Wilson
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900 other

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	None
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 out
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	<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 isco + battery. cleaned out intake.

2.

3.

STORM EVENT LOG SHEET

1. Site: 43RD + PEORIA

Your Name: FOSSUM/WILSON

2. Date: 8/30/2000

Time: 1820

SAMPLER PARAMETERS

3. Rainfall: .25 in

4. Flow: 1.05 cfs

@ 1713

5. Level: .314 in

6. Velocity: ft/sec

O&M PARAMETERS

7. Did sampling equipment operate during event? Yes or No? Describe problems.

8. Battery voltage: _____ volts

9. Power On or Off? If power off (Mesa), reset circuit breaker and check/replace fuse if necessary.

FIELD PARAMETERS

10. Discharge (flow) at time of grabs TRICKLE cfs

11. pH 6.82 su

12. Temperature 25.5 deg. C

CONDUCTANCE = 247 μ S

GRAB SAMPLES Take grabs from discharge only!

13. Grab samples taken? Yes or No?

14. Preservatives added to bottles? Yes or No?

IB08 – 40th Street at Indian Bend Wash

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40th & IBW		3/9/00	
1:00	1:30	K.D. Fossum, B.J. Wilson	
Sigma 900			

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPAIRS	NEEDS REPAIR	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Rainfall total 2.53", Need to bring a battery

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40TH ST. AND IBW		6/20/2000	
13:45	14:30	REES	

	OPERATION SERVICES WATER/VEGETATION	CONDITION	REPAIRS	REMARKS	
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS SET UP FOR SAMPLING, CHANGED BATTERY

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

40TH ST AND IBW		6/26/2000	
12:00		12:30	REES + Fossum
SIGMA 900MAX			

	YES NO	GOOD FAIR POOR	YES NO	YES NO	
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	volts
SOLAR PANEL	<input checked="" type="radio"/> YES <input type="radio"/> NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	length (feet)
SAMPLER PUMP TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
SAMPLER DISTRIBUTOR TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> YES <input type="radio"/> NO	
DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	<input checked="" type="radio"/> YES <input type="radio"/> NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS TUBING & PT PULLED - COME
 SLICK OUT AND ATTACH DEPT. VENTILY.
 CLEANED BOTTLES AND SAMPLER.

FCD/USGS STORMWATER O&M LOG SHEET

SITE	40 TH ST. + IBW		DATE	7/10/2000	
ARRIVAL TIME	13:00	DEPARTURE TIME	15:00	SERVICED BY	REES + WILSON
SAMPLER	SIGMA OR <u>ISCO</u>		MODEL NUMBER	800 900	<u>other</u>

EQUIPMENT CHECKED		COMMENTS
BATTERY VOLTAGE OK	<u>YES</u> NO	volts
SOLAR PANEL CLEAN	<u>YES</u> NO	
CABLES AND CONNECTIONS GOOD	<u>YES</u> NO	
CELLULAR ANTENNA	<u>YES</u> <u>NO</u>	
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 (tap, liquinox, tap, nitric, DI)	YES <u>NO</u>	
CALIBRATED DEPTH SENSOR	YES <u>NO</u>	depth (in)
CALIBRATED SAMPLE VOLUME	<u>YES</u> NO	ml

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

1 PERMANENTLY ANCHORED PT AND INTAKE TUBING TO THE
 2 BOTTOM OF CULVERT.

3

FCD/USGS STORMWATER O&M LOG SHEET

SITE	240 th St. + IBW		DATE	8/7/00	
ARRIVAL TIME	4:00	DEPARTURE TIME	4:30	SERVICED BY	Wilson + Reed
SAMPLER	<input checked="" type="radio"/> SIGMA <input type="radio"/> OR ISCO		MODEL NUMBER	800	<input checked="" type="radio"/> 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 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 (tap, liquinox, tap, nitric, DI)	<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 Checked to see if line is okay. Good - Rained previously + 2 bottles filled with water at bottom of carousel. Cleaned int. Called Julie Cox. She will reset. Rain expected

3

FCD/USGS STORMWATER O&M LOG SHEET

SITE	40th + IBW		DATE	8/18/10	
ARRIVAL TIME	10:20	DEPARTURE TIME	10:45	SERVICED BY	Kd fossy + B. Wilse
SAMPLER	SIGMA OR ISCO		MODEL NUMBER	800	900 900 other

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	None
PHONE TONE	YES NO	
RAINGAGE (screen, funnel, tipping bucket)	YES NO	
SAMPLE TUBING (intake, pump, distributor)	YES NO	
CLEANED SAMPLE TUBING (tap, liquinox, tap, nitric, DI)	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	Sample water
2	
3	