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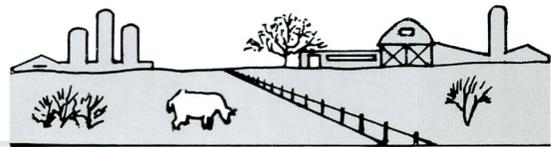
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# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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

**First Quarter**

**November 1, 1999**

FLOOD CONTROL  
DISTRICT

OF  
MARICOPA  
COUNTY

# Stormwater Quality Report

First Quarter, Sampling Year 2000

July 1, 1999 through September 30, 1999

For  
**City of Phoenix, Arizona**

November 1, 1999

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Stormwater Quality Report  
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## Introduction

This report details the NPDES stormwater sampling activities during the summer of 1999. The period from July 1 through September 30 is typically the wettest part of the year in Phoenix. There were many rain events during this period, but none met the representative criteria.

The Flood Control District 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.

<b>PHOENIX</b>	<b>RAINFALL</b>	<b>DURATION</b>
<b>SUMMER</b>	<b>0.2 – 0.7 INCH</b>	<b>2.2 – 6.5 HOURS</b>
<b>WINTER</b>	<b>0.2 – 0.7 INCH</b>	<b>5.2 – 15.6 HOURS</b>

All storms are to be preceded by 72 hours with rainfall less than 0.10 inches. Summer months are April through September and winter months are October through March.

## Summary of Sampled Storm Events

This is a summary of sampled storm events in the first quarter of the 2000 sample year, which is July 1 through September 30, 1999. Any troubleshooting of the equipment is detailed in the Maintenance Summaries. Following are detailed descriptions of the sampled events. There were no representative events in this period and thus, no samples were taken.

## Other Storm Events Not Sampled

Events with rainfall > 0.20 inches but not sampled

<b>SITE</b>	<b>DATE</b>	<b>RAIN</b>	<b>REASON NOT SAMPLED</b>
ACDC43	7/14/1999	0.30	DURATION TOO SHORT
ACDC43	7/15/1999	1.10	RAIN > 0.70 INCH, DURATION TOO SHORT
ACDC43	8/10/1999	0.48	DURATION TOO SHORT
ACDC43	9/11/1999	0.38	DURATION TOO SHORT
ACDC43	9/19/1999	0.59	DURATION TOO SHORT
ACDC43	9/23/1999	0.31	DURATION TOO SHORT
SR30	7/07/1999	0.74	RAIN > 0.70 INCH, DURATION TOO SHORT
SR30	7/14/1999	1.72	RAIN > 0.70 INCH, DURATION TOO SHORT
SR30	7/28/1999	0.38	DURATION TOO SHORT
SR30	8/27/1999	1.53	RAIN > 0.70 INCH
SR30	8/31/1999	0.23	DURATION TOO SHORT
SR03	7/07/1999	0.73	RAIN > 0.70 INCH, DURATION TOO SHORT
SR03	7/14/1999	1.60	RAIN > 0.70 INCH, DURATION TOO SHORT
SR03	7/28/1999	0.39	DURATION TOO SHORT
SR03	8/27/1999	0.50	DURATION TOO SHORT
SR03	8/31/1999	0.21	DURATION TOO SHORT
SR45	9/19/1999	0.20	DURATION TOO SHORT
SR49	7/14/1999	1.49	RAIN > 0.70 INCH, DURATION TOO SHORT
SR49	7/28/1999	0.39	DURATION TOO SHORT
SR49	8/27/1999	0.35	DURATION TOO SHORT
SR49	8/31/1999	0.20	DURATION TOO SHORT
IB08	8/27/1999	0.76	RAIN > 0.70 INCH
IB08	9/19/1999	1.01	RAIN > 0.70 INCH, DURATION TOO SHORT

No storms were representative.

## Maintenance Summary

This section details maintenance activities and problems during the first quarter.

### **SR03 – Salt River at 35th Avenue**

No equipment problems were reported by the USGS.

### **SR30 – Salt River at 27th Avenue**

No equipment problems were reported by the USGS.

### **SR45 – Salt River at 40th Street**

Equipment was removed at this site during a major construction project at the airport. District equipment was removed on May 12. USGS installed their equipment on September 9, 1999. No equipment problems were reported by the USGS.

### **SR49 – Salt River at 67th Avenue**

No equipment problems were reported by the USGS.

### **IB08 – 40th Street at Indian Bend Wash**

The American Sigma equipment remains at this site. The District sent this piece of equipment back to American Sigma to be modified with the addition of an area-velocity meter. As of September 30, American Sigma is working on the modification. There is an ongoing problem with the keypad at this site. The sampler is unable to register the correct time.

### **ACDC43 – ACDC near Peoria and 43rd Avenues**

No equipment problems were reported by the USGS.

## Data from Summer 1999

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

- Rainfall Data from each monitoring site

# Rainfall Data















































































































