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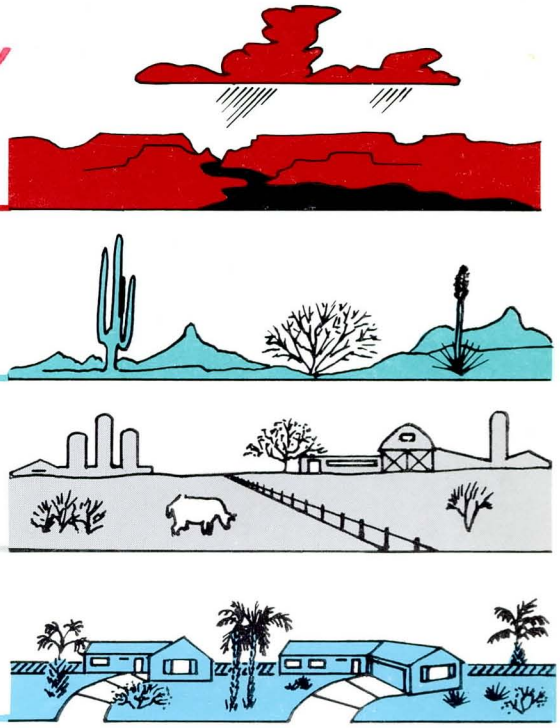

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Stormwater Quality Report
City of Phoenix, Arizona

First Quarter

November 24, 1998

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Stormwater Quality Report

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2801 W. Durango
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First Quarter, Sampling Year 1999

July 1, 1998 through September 30, 1998

For
City of Phoenix, Arizona

November 24, 1998

Stormwater Quality Report
City of Phoenix, Arizona

First Quarter

November 24, 1998

Introduction

The Flood Control District of Maricopa County, in cooperation with the United States Geological Survey, operates and maintains six land based stormwater monitoring stations for the City of Phoenix for compliance with their National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge permit. This report contains data from the summer 1998 seasonal rainfall.

The data is presented differently than in past reports. First, only data from the summer of 1998 is included. Finally, in addition to the tabular data, each event for each site is presented in validation form. Validation form lists the analyte and result, plus the analysis date, data flags, any relevant quality control data, and comments about data.

Storm Summaries

This is a summary of sampled storm events in the first quarter of the 1999 sample year, which is July 1 through September 30. Several storm events were measured during the summer, not all, however, were useable. Overall, the summer of 1998 would be considered relatively dry. Any troubleshooting of the equipment is mentioned in the Storm Summaries but is detailed in the Maintenance Summaries. Following are detailed descriptions of the sampled events.

Storm of July 5 – 7, 1998

Storm events occurred on July 5, 6, and 7. There was sufficient rainfall at many sites to produce runoff. The equipment at the four sites maintained by the District was not in place for this event. The two sites maintained by the USGS did sample, however.

Equipment was being serviced and upgraded. The service took longer than expected. In addition, on July 2, according to the National Weather Service, the monsoon was still "a few weeks away." District personnel had scheduled installation of backup equipment during the week of July 6, and it was installed on July 9.

Storm of July 6 – 7, 1998

	RAINFALL			
SITE	JULY 5	JULY 6	JULY 7	SAMPLED
SR03	0.06	0.26	0.42	NO (1)
SR30	0.06	0.26 (4)	0.42	YES (2)
SR45	0.04	0.59	0.04	NO (1)
SR49	0.12	0.00	0.04	NO (1)
IB08	0.04	0.91	0.55	NO (1)
ACDC/43RD	0.08	0.87	0.16	YES (3)

(1) Equipment not installed.
(2) Sampled on July 7, 1998
(3) Sampled on July 6, 1998
(4) Rainfall estimated from gauge 1 1/2 miles north. This number is likely incorrect.

Grab samples at both SR30 and ACDC43 were taken via the automatic sampler. This is noted in the Validation Sheets.

Storm of July 17, 1998

Rainfall fell mainly northern part of Phoenix. Rainfall at an ALERT gauge near IB08 had 0.28 inches of precipitation. However, the storm did not produce significant runoff and the event was not sampled. The following table shows the summary of rainfall during this event.

Storm of July 17, 1998

SITE	JULY 17	SAMPLED
SR03	0.00	NO
SR30	0.00	NO
SR45	0.00	NO
SR49	0.04	NO
IB08	0.28	NO (1)
ACDC/43RD	0.04	NO

(1) Insufficient runoff for sample collection

Storm of July 22, 1998

A heavy storm concentrated over the south Phoenix area dumped a large volume of rainfall in a very short time. The following table shows the rainfall totals for each location.

Storm of July 22, 1998

SITE	JULY 22	SAMPLED
SR03	0.25	NO (1)
SR30	0.68	YES
SR45	1.83	YES
SR49	0.00	NO
IB08	0.00	NO
ACDC/43RD	0.00	NO

(1) Equipment failure.

The equipment seemed to operate properly during this event. Grab samples at SR30 were taken using the automatic sampler. This is noted in the Validation Sheets. Grab samples at SR45 were taken directly from the discharge.

Storm of August 7, 1998

A rainfall event occurred in the west / northwest part of Phoenix. Only the site at ACDC and 43rd Avenue received sufficient rainfall to sample. The sampler gauge at this site recorded 0.26 inches of precipitation. Below is a table of rainfall data.

Storm of August 7, 1998

SITE	AUGUST 7	SAMPLED
SR03	0.01	NO
SR30	0.01	NO
SR45	0.00	NO
SR49	0.00	NO
IB08	0.00	NO
ACDC/43RD	0.26	YES

According to the USGS, the equipment at this site worked well. Grab samples were taken via the automatic sampler unit. Notation has been made in the validation sheets.

Storm of August 15, 1998

The storm of August 15, 1998 occurred mainly in the east valley, with precipitation reaching the two sampler along 40th Street. The following table shows the rainfall totals for this storm.

Storm of August 15, 1998

SITE	AUGUST 15	SAMPLED
SR03	0.00	NO
SR30	0.00	NO
SR45	0.59	YES
SR49	0.00	NO
IB08	0.39	NO (1)
ACDC/43RD	0.00	NO

(1) Equipment failure – Raingauge was found to be plugged.

The raingauge at IB08 was checked on Wednesday August 20 and it was found to be plugged. The rainfall total at IB08 is from an ALERT gauge located at Sweetwater Avenue and 36th Street. Another event on August 17 at that ALERT gauge had 0.12 inches of precipitation, and the sampler only had 0.02 inches.

The grab samples at SR45 were taken using the automatic sampler. This is noted in the Validation Sheets.

Storm of August 17, 1998

A valleywide storm event occurred on August 17, 1998. Most sample sites received more than 0.20 inches of precipitation during the August 15, 1998 storm event. The following table provides precipitation data for this storm.

Storm of August 17, 1998

SITE	AUGUST 17	SAMPLED
SR03	0.05	NO
SR30	0.05	NO
SR45	0.39	NO (1)
SR49	0.19	YES
IB08	0.12	NO (2)
ACDC/43RD	0.00	NO

(1) Rainfall is < 72 hours from previous event; non-representative
(2) Raingauge failure and non-representative event

The equipment seemed to work fine during the event. Grab samples from SR49 were collected via the automatic sampler. This is noted in the Validation Sheets.

Storms of September 4 and 6, 1998

A storm occurred on September 4 that dropped precipitation greater than 0.10 inches but less than 0.20 inches (the threshold for representativeness.) Another storm occurred on September 6 that had precipitation in excess of 0.20 inches. However, it was not sampled because rain had fallen two days earlier. The following table shows the rainfall amounts.

Storm of September 4 & 6, 1998

	RAINFALL		
SITE	SEPT. 4	SEPT. 6	SAMPLED
SR03	0.11	0.24	NO
SR30	0.11 (1)	0.24 (1)	NO (2)
SR45	0.06	0.28	NO (3)
SR49	0.16	0.51	NO
IB08	0.04	0.04	NO
ACDC/43RD	0.12	0.00	NO (2)

(1) Rainfall estimated from SR03 and ALERT Gauge 4700.
(2) USGS stopped sampling after two events.
(3) Sampler had enough rain to start on 9/4 but was not reset for event of 9/6, because of Labor Day weekend.

Storm of September 11, 1998

Storm was concentrated over the southwest part of Phoenix. The ALERT raingauge located adjacent to SR49 received 0.44 inches of precipitation. A table of rainfall data is presented below.

Storm of September 11, 1998

SITE	SEPT. 11	SAMPLED
SR03	0.09	NO
SR30	0.09	NO
SR45	0.00	NO
SR49	0.44	NO (1)
IB08	0.08	NO
ACDC/43RD	0.43	NO (2)

(1) Raingauge tampering.
(2) USGS stopped sampling after two events.

Though the ALERT raingauge recorded precipitation, the sampler raingauge recorded no precipitation. Upon visiting the site, the sampler raingauge funnel was found to have been removed and improperly replaced. There were construction workers in the area that week installing a fence on the property next to the monitoring site. On September 9, the equipment, including the raingauge was checked. The funnel was tampered with after that visit. No samples were taken.

Storm of September 22, 1998

The final storm of the summer occurred on September 22, 1998. A table of rainfall data is provided below.

Storm of September 22, 1998

SITE	SEPT. 22	SAMPLED
SR03	0.16	NO (1)
SR30	0.16	NO
SR45	0.00	NO
SR49	0.00	NO
IB08	0.11	YES
ACDC/43RD	0.00	NO

(1) Equipment failure and non-representative event.

Since SR03 and IB08 had taken no samples during the summer, it was decided to collect samples for any storm whether or not it was representative. The equipment at SR03 failed, while the sampler at IB08 collected samples. Grab samples at IB08 were collected directly from the runoff.

There were a few other rain events that occurred during the summer. The rainfall section provides rainfall totals for each site. Some rainfall totals appear to have been representative, but were not sampled. Below is a table that provides explanation for their not being sampled. All events with rainfall less than 0.20 inches are not included because, by definition, they are not representative.

Events with rainfall > 0.20 inches but not sampled

SITE	DATE	RAIN	REASON
IB08	7/6/98	0.91	Rainfall greater than 0.80 inches – non-representative
SR03	7/6/98	0.26	Equipment not ready for summer season
SR45	7/6/98	0.59	Equipment not ready for summer season
IB08	7/7/98	0.55	Rainfall > 0.10 inches / < 72 hours prior to this storm
SR03	7/7/98	0.42	Rainfall > 0.10 inches / < 72 hours prior to this storm
IB08	7/17/98	0.28	Insufficient Runoff
SR03	7/22/98	0.25	Equipment Failure
IB08	8/15/98	0.39	Raingauge Failure (data from ALERT gauge 4640)
SR45	8/17/98	0.39	Rainfall > 0.10 inches / < 72 hours prior to this storm
SR03	9/6/98	0.24	Rainfall > 0.10 inches / < 72 hours prior to this storm
SR49	9/6/98	0.51	Rainfall > 0.10 inches / < 72 hours prior to this storm
ACDC43	9/11/98	0.43	USGS stopped sampling after two events

Maintenance Summary

Equipment was initially serviced for the summer on July 9, 1998. The original equipment had been removed in late May and returned to the manufacturer for upgrade of the modem and programming. This service took much longer than anticipated, so the District's backup equipment was installed and used throughout the summer. (The original was installed on November 5, 1998.)

SR03

There were a number of problems with equipment failure at this site during the summer that may or may not be related to the equipment housing being struck by a vehicle in June. The problems appeared to be related to the raingauge, which may have suffered more serious damage than realized during the accident in June. Furthermore, the raingauge at this location seems to be susceptible to winds both natural and vehicle caused, and vehicle-caused vibration. In September, the raingauge was resecured to the traffic box that houses the sampler and peripheral equipment. The gauge has since worked well.

SR30

The USGS reports that there were no significant problems with equipment during the summer 1998.

SR45

The equipment generally worked well during the summer of 1998. There were no significant failures to report.

SR49

The equipment generally worked well during the summer of 1998. There were no significant failures to report. There was, however, one incident of tampering with the raingauge which caused a storm event to be missed. The funnel on the raingauge had been removed and incorrectly replaced, so that rainfall was not recorded. Because no rainfall was recorded, the sampler program did not initiate.

IB08

The raingauge caused many of the problems at this site during the summer. The gauge was checked initially on July 9, 1998. By August, the raingauge had become plugged. The problem was found when significant rainfall had occurred but the sampler gauge showed very little precipitation. The raingauge was cleaned. During the cleaning, a problem with the raingauge mechanism was found, but it remained operable. The raingauge was replaced with a new unit on September 16, 1998.

ACDC43

The USGS reports that there were no significant problems with equipment during the summer 1998.

Grab Sample Techniques

As mentioned above in the storm summaries, grab samples have been taken using the automatic sampler. This technique is not valid for volatile organics, bacterial samples, and oil and grease. The District has developed an apparatus that will allow collection of grab samples from very near the intake tubing.

The apparatus is made from PVC piping. Bottles are placed into various sizes of PVC pipe and samples are collected directly into the sample bottles. Once collected, the samples are preserved and placed on ice.

Most sites provide easy access for collecting grab samples. Grab samples can be obtained using the grab sample apparatus by dipping the bottles directly into the water, usually within one or two feet of the intake point.

Access to a point to take grab samples at SR03 is by removing the grated manhole cover and dipping bottles into the discharge. The lack of storm drain inlets along 35th Avenue will make this impossible sometimes. If there is a particularly heavy rainfall, ponding occurs near the sampler with the grated manhole cover being the storm drain inlet. If there is a large amount of standing water, no grab samples will be collected due to safety concerns.

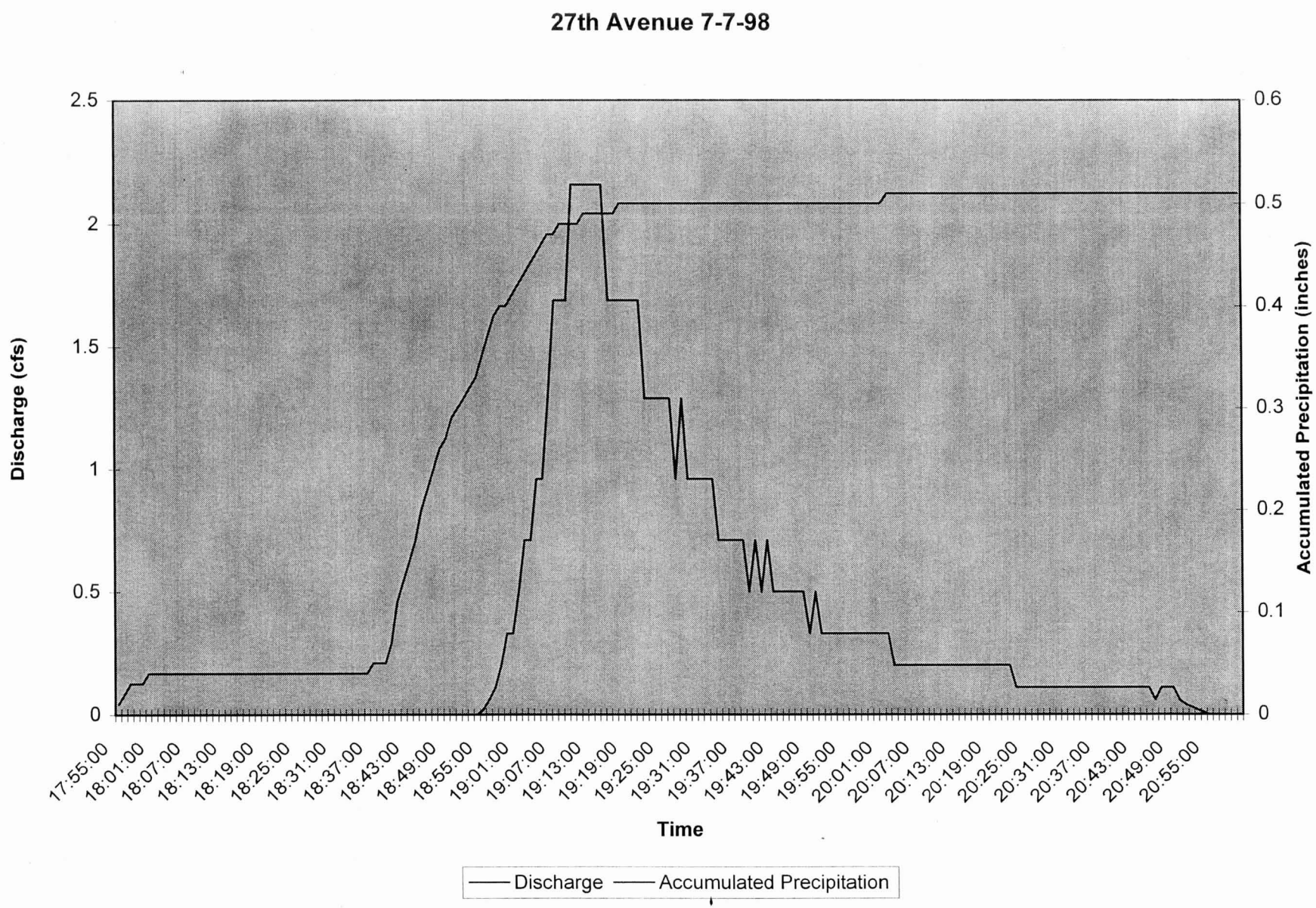
Grab samples will no longer be taken with the automatic sampler. If grab samples cannot be obtained directly, no samples will be taken.

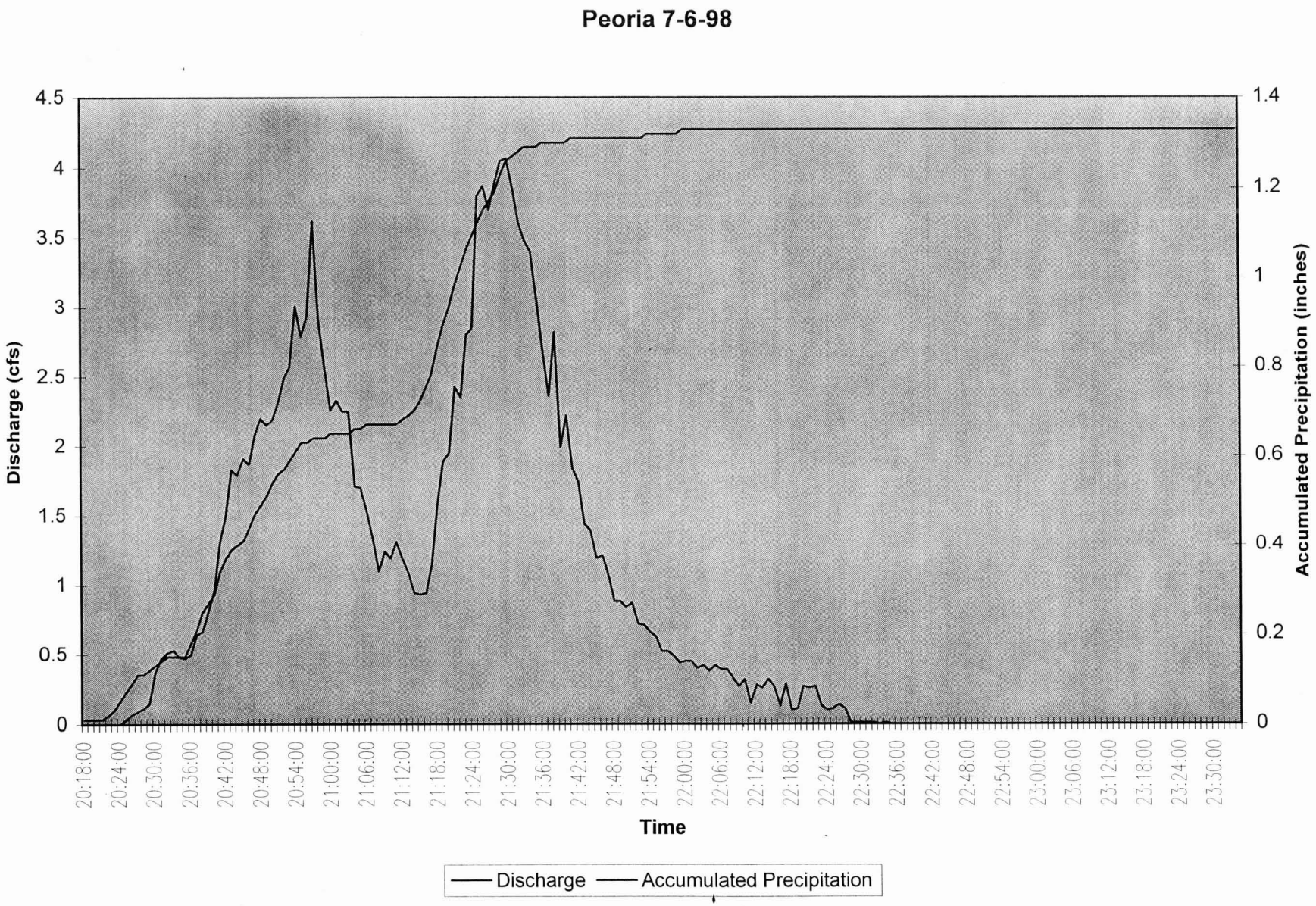
Data from Summer 1998

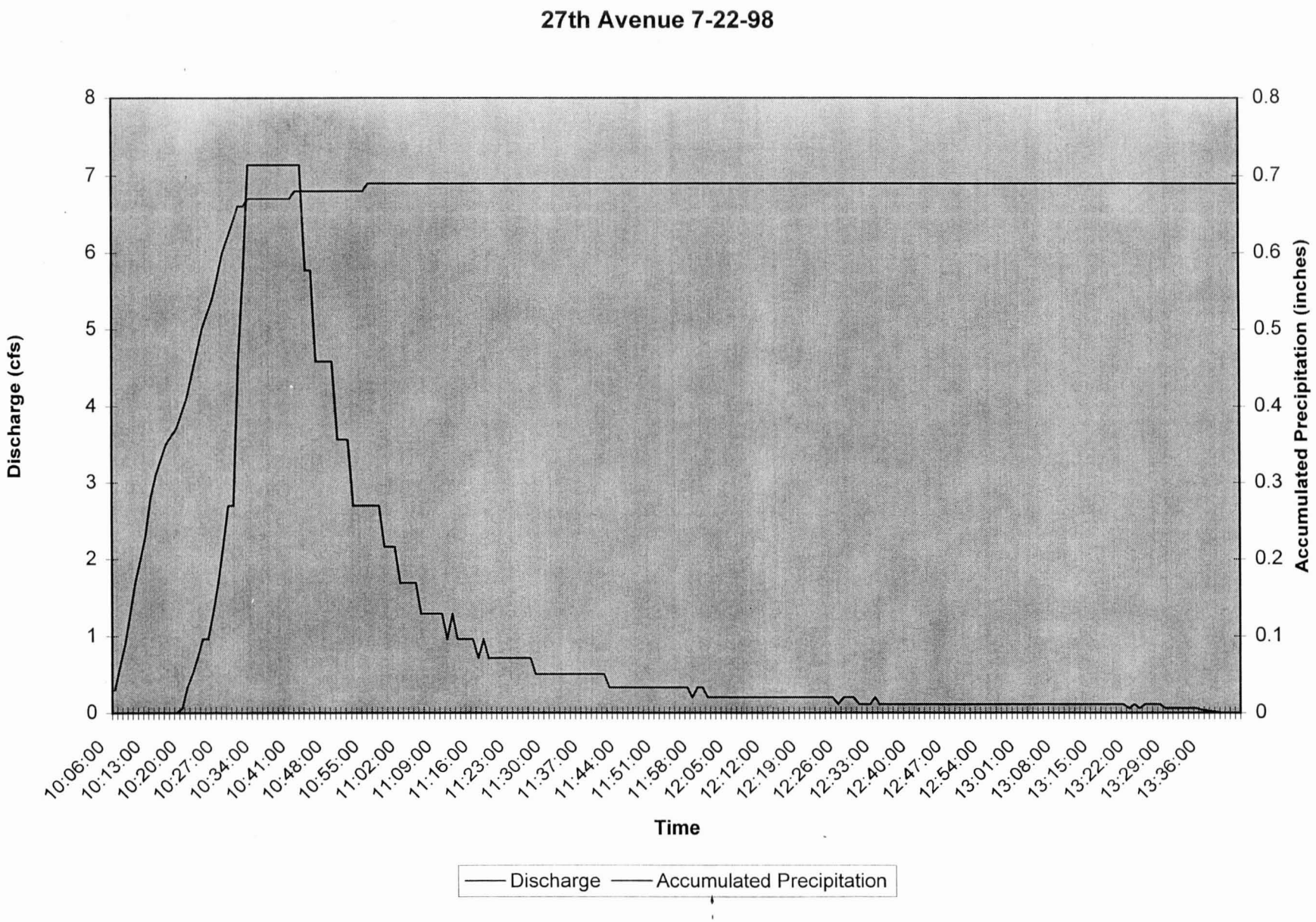
The remainder of this report contains data. The following data are included:

- Storm Hydrographs
- Rainfall Data from each monitoring site and from ALERT raingauges in the city.
- Printed tables of data from the summer. Included are required data for Mesa's NPDES permit.
- Validation Tables. These data show a validation of the data on an individual basis for each storm event. One table is included for each site for each sampled event.
- Hard copies of data.
- Copies of maintenance and storm sheets.
- Disk of data files.

Storm Hydrographs

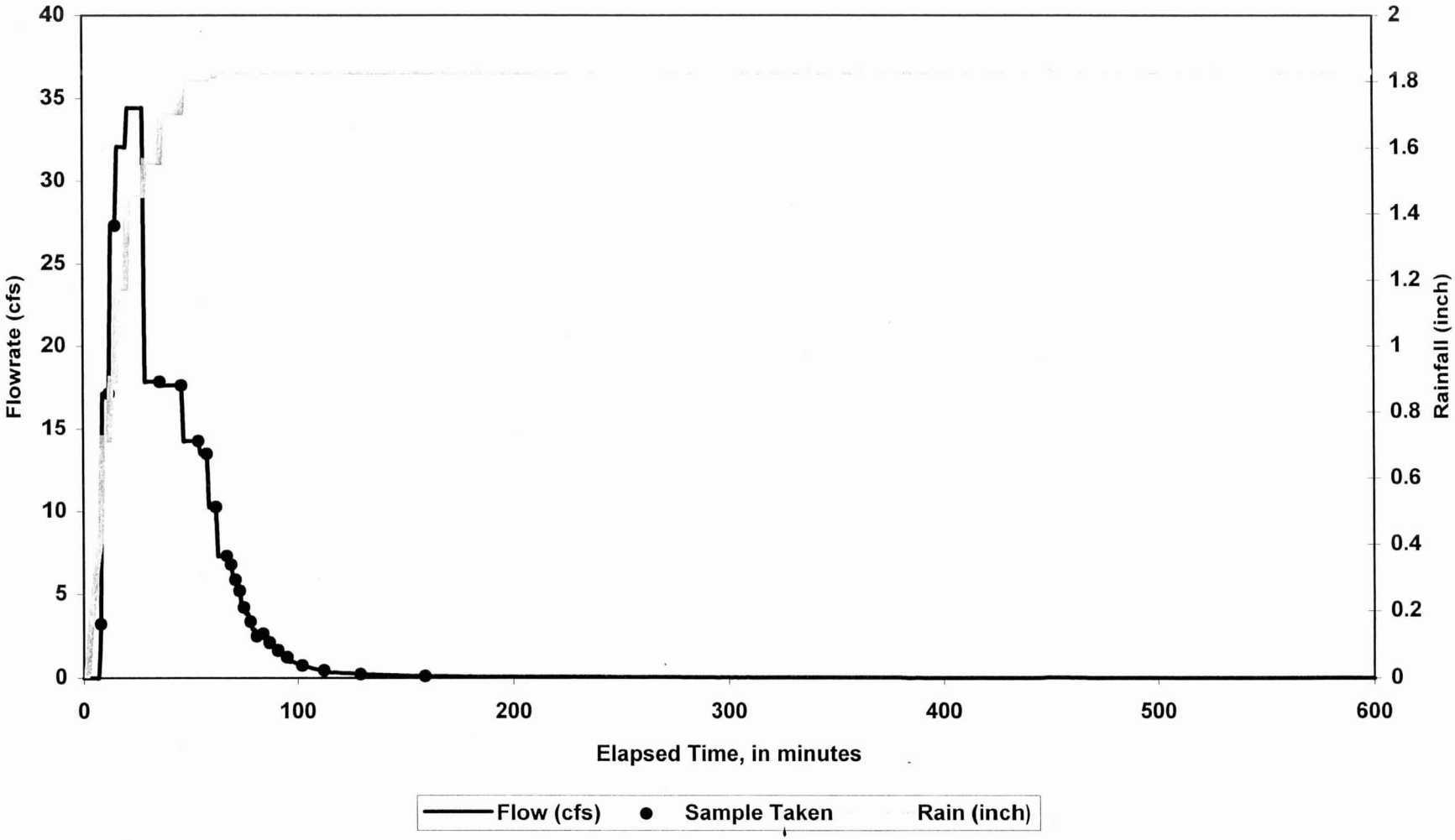

27th Avenue 7-7-98
Discharge (cfs)
2.5
2
1.5
1
0.5
0
Accumulated Precipitation (inches)
0.6
0.5
0.4
0.3
0.2
0.1
0
17:55:00
18:01:00
18:07:00
18:13:00
18:19:00
18:25:00
18:31:00
18:37:00
18:43:00
18:49:00
18:55:00
19:01:00
19:07:00
19:13:00
19:19:00
19:25:00
19:31:00
19:37:00
19:43:00
19:49:00
19:55:00
20:01:00
20:07:00
20:13:00
20:19:00
20:25:00
20:31:00
20:37:00
20:43:00
20:49:00
20:55:00
Time
Discharge
Accumulated Precipitation

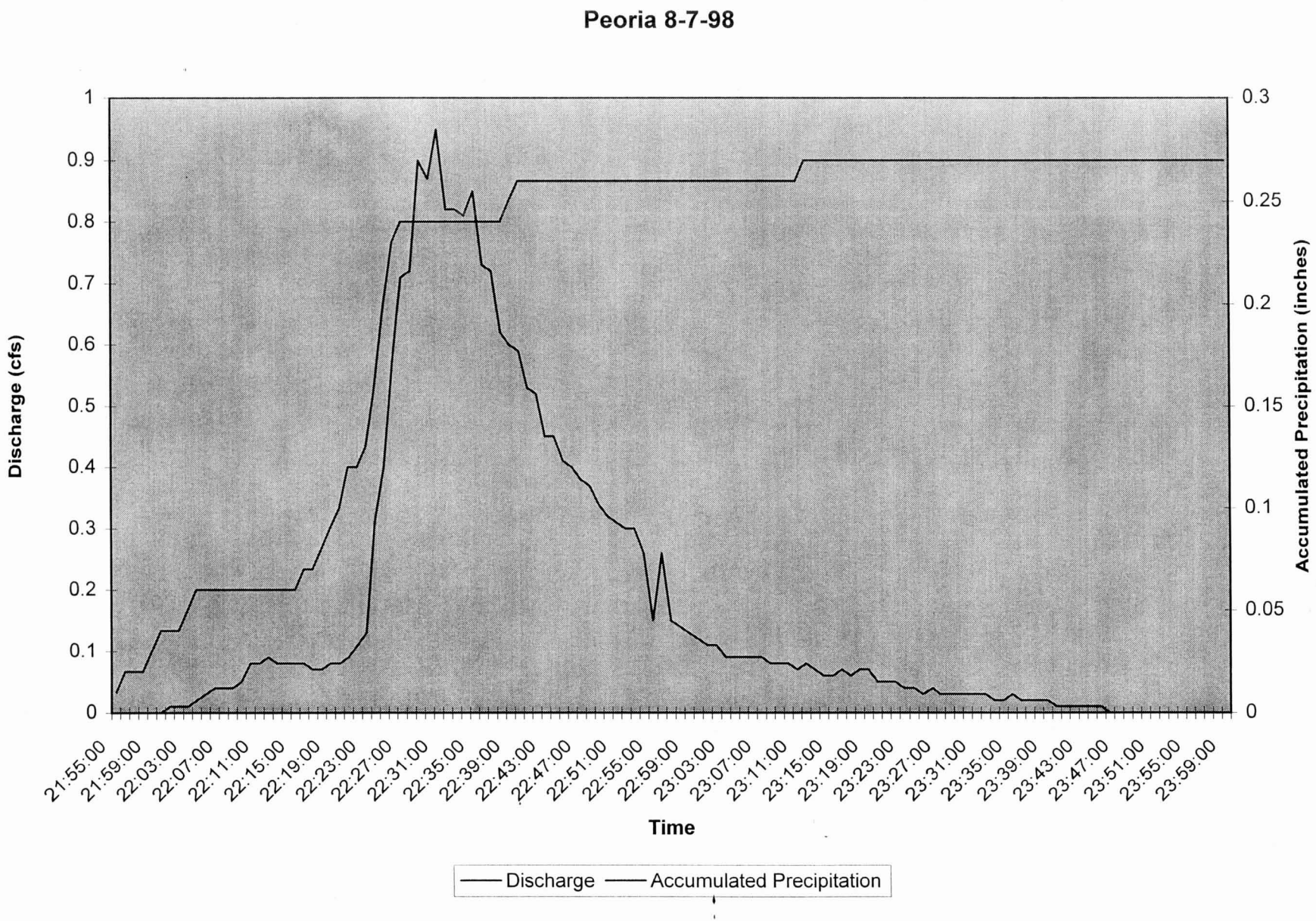

Peoria 7-6-98
Discharge (cfs)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Accumulated Precipitation (inches)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
20:18:00
20:24:00
20:30:00
20:36:00
20:42:00
20:48:00
20:54:00
21:00:00
21:06:00
21:12:00
21:18:00
21:24:00
21:30:00
21:36:00
21:42:00
21:48:00
21:54:00
22:00:00
22:06:00
22:12:00
22:18:00
22:24:00
22:30:00
22:36:00
22:42:00
22:48:00
22:54:00
23:00:00
23:06:00
23:12:00
23:18:00
23:24:00
23:30:00
Time
Discharge
Accumulated Precipitation


27th Avenue 7-22-98
Discharge (cfs)
Accumulated Precipitation (inches)
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
10:06:00
10:13:00
10:20:00
10:27:00
10:34:00
10:41:00
10:48:00
10:55:00
11:02:00
11:09:00
11:16:00
11:23:00
11:30:00
11:37:00
11:44:00
11:51:00
11:58:00
12:05:00
12:12:00
12:19:00
12:26:00
12:33:00
12:40:00
12:47:00
12:54:00
13:01:00
13:08:00
13:15:00
13:22:00
13:29:00
13:36:00
Time
Discharge
Accumulated Precipitation

Phoenix SR-45: Salt River at 40th Street

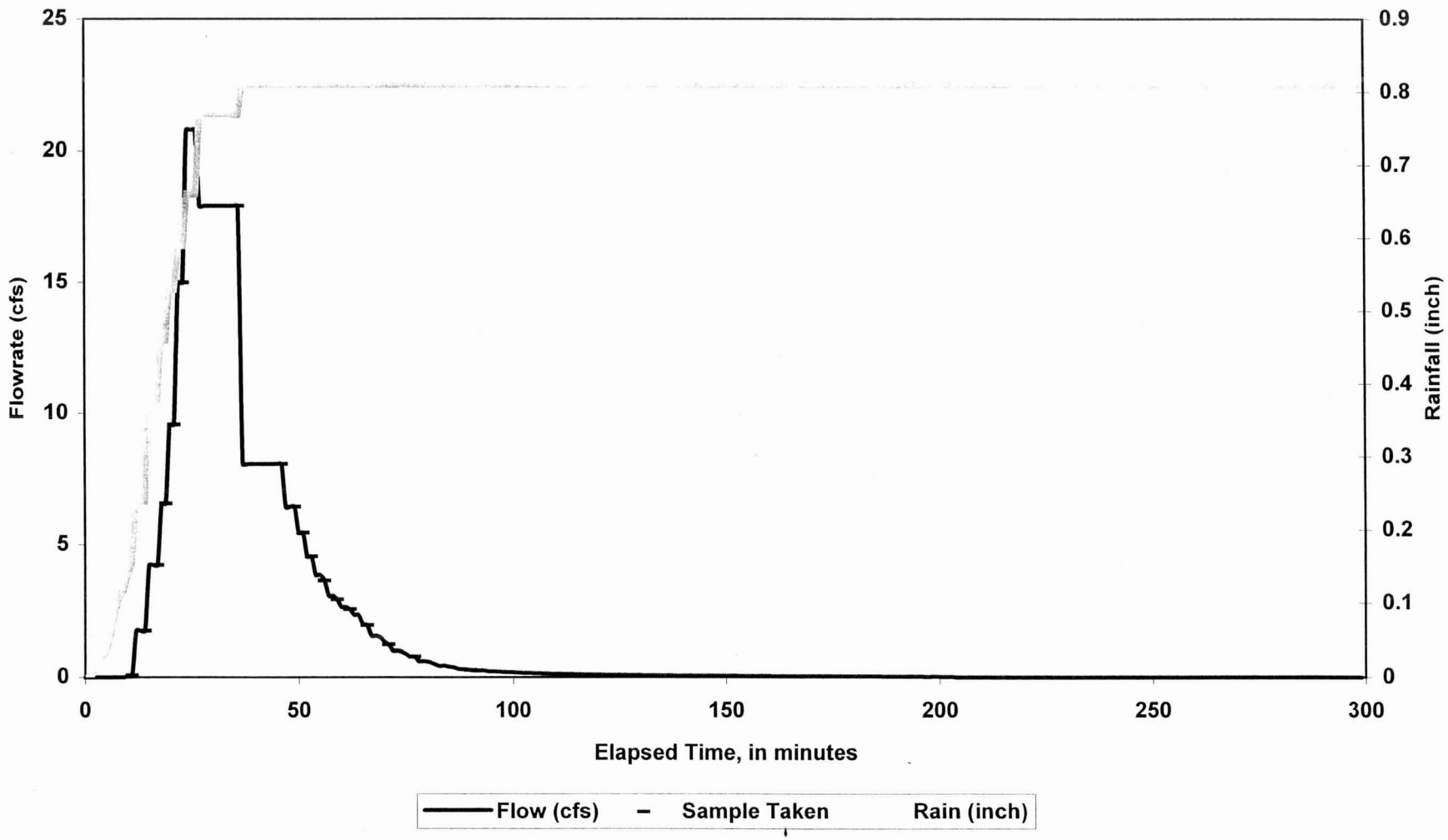
22 July 1998

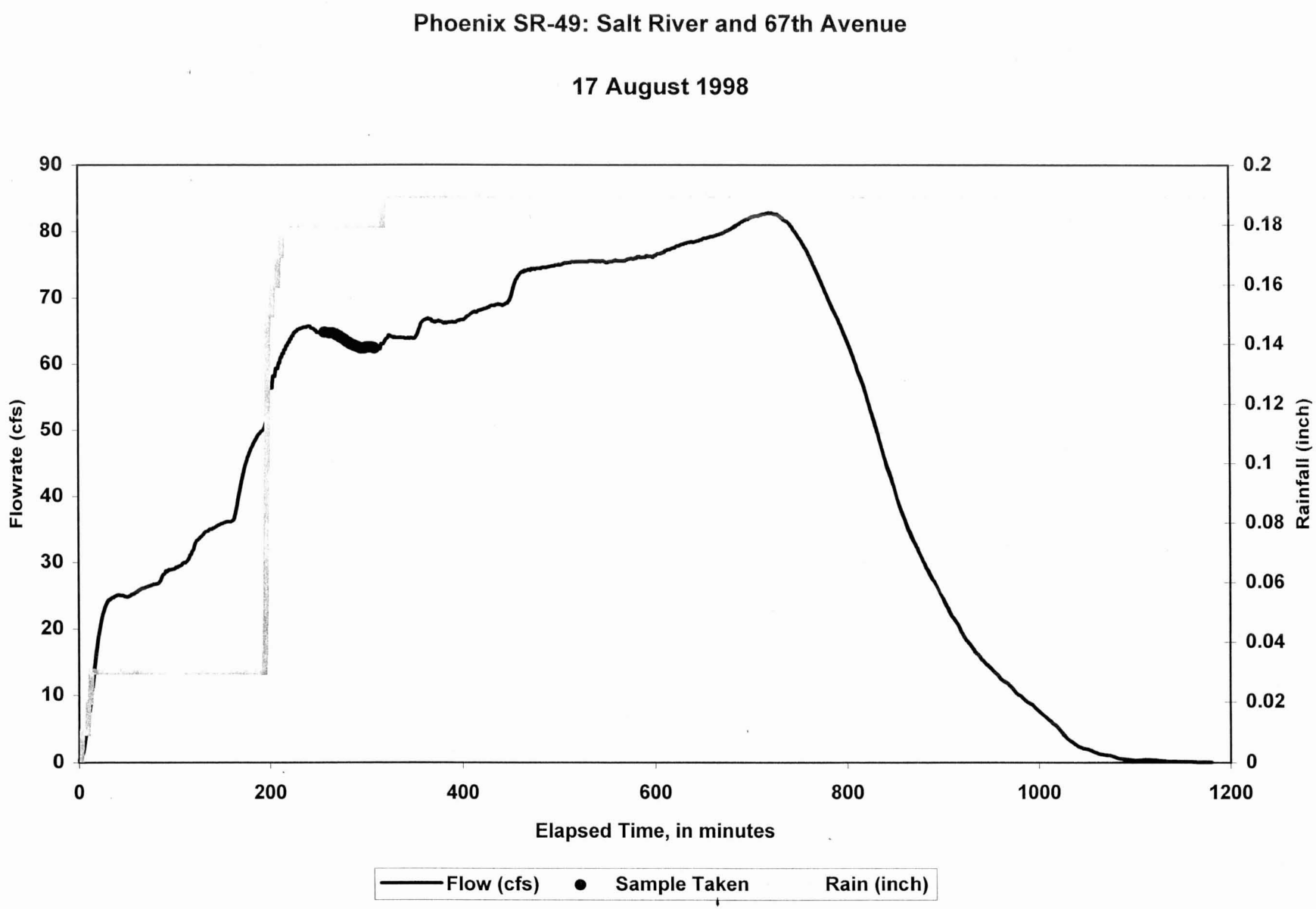



Peoria 8-7-98
Discharge (cfs)
Accumulated Precipitation (inches)
Time
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
21:55:00
21:59:00
22:03:00
22:07:00
22:11:00
22:15:00
22:19:00
22:23:00
22:27:00
22:31:00
22:35:00
22:39:00
22:43:00
22:47:00
22:51:00
22:55:00
22:59:00
23:03:00
23:07:00
23:11:00
23:15:00
23:19:00
23:23:00
23:27:00
23:31:00
23:35:00
23:39:00
23:43:00
23:47:00
23:51:00
23:55:00
23:59:00
Discharge
Accumulated Precipitation

Phoenix SR-45: 40th Street at Salt River

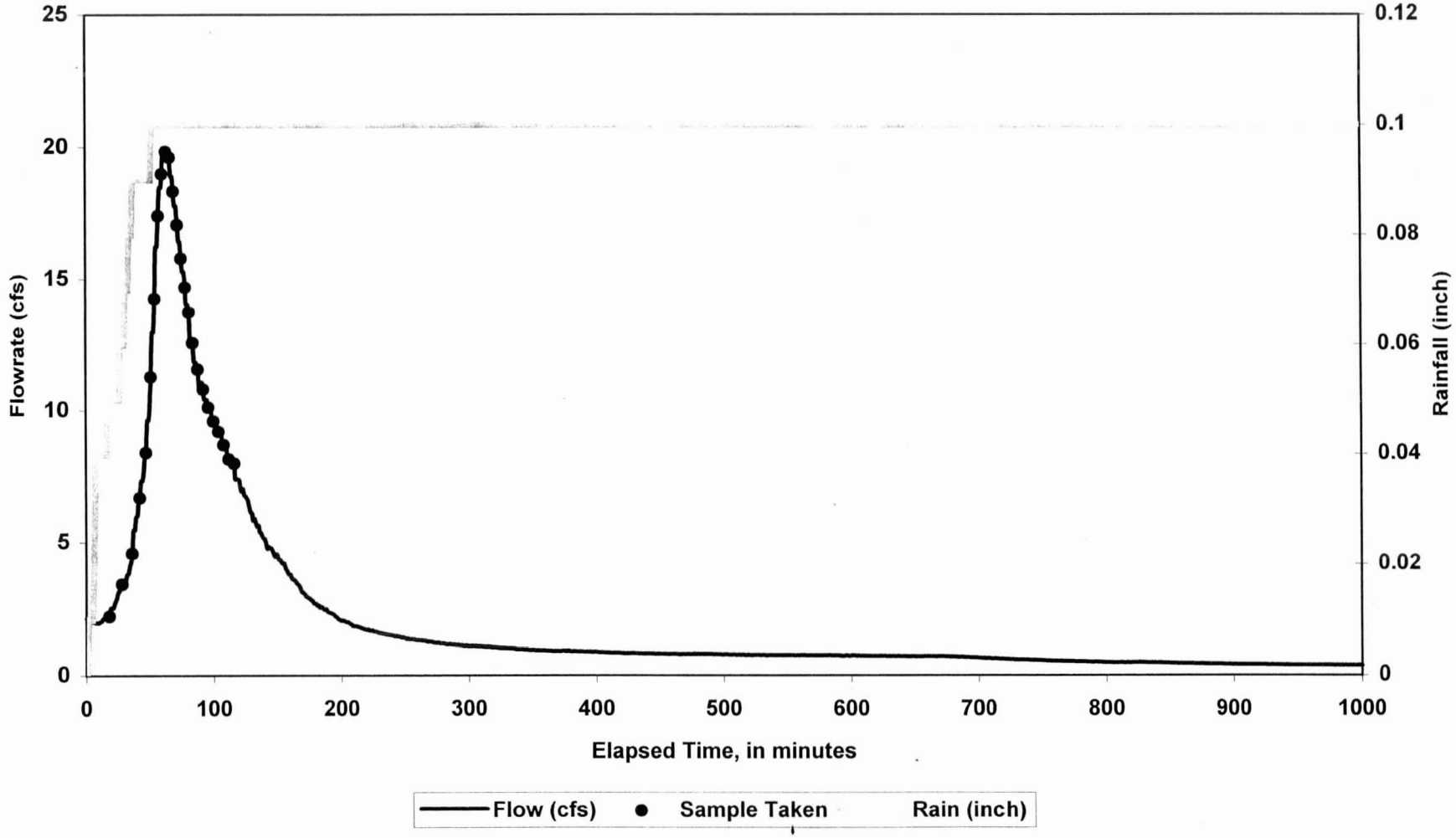
15 August 1998




Phoenix SR-49: Salt River and 67th Avenue
17 August 1998
Flowrate (cfs)
Rainfall (inch)
Elapsed Time, in minutes
0
10
20
30
40
50
60
70
80
90
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0
200
400
600
800
1000
1200
Flow (cfs)
Sample Taken
Rain (inch)

Phoenix IB08: 40th Street at Indian Bend Wash

22 September 1998



Rainfall Data

Gauge Rainfall

Gage Number	SR03
Location	Salt River and 35th Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.11									
5	0.06											
6	0.26		0.24									
7	0.42	0.01										
8												
9			0.02									
10												
11			0.09									
12												
13												
14												
15												
16												
17		0.05										
18												
19												
20												
21												
22	0.25		0.16									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.99	0.06	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	SR30 (Data taken from SR03)
Location	Salt River at 27th Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.11									
5	0.06											
6	0.26		0.24									
7	0.42	0.01										
8												
9			0.02									
10												
11			0.09									
12												
13												
14												
15												
16												
17		0.05										
18												
19												
20												
21												
22	0.25		0.16									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.99	0.06	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	SR45
Location	Salt River at 40th Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4	0.04		0.06									
5	0.59											
6	0.04	0.04	0.28									
7												
8												
9												
10												
11												
12												
13												
14												
15		0.59										
16												
17		0.39										
18	0.08											
19												
20	1.83											
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	2.58	1.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	SR49
Location	Salt River at 67th Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.16									
5	0.12											
6			0.51									
7	0.04											
8												
9												
10												
11			0.44									
12		0.12										
13												
14												
15												
16												
17	0.04	0.19										
18												
19	0.08											
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.28	0.31	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	IB08
Location	40th Street at Indian Bend Wash

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5	0.04											
6	0.91		0.04									
7	0.55											
8	0.04											
9												
10												
11			0.08									
12												
13												
14												
15		0.39										
16												
17	0.28	0.12										
18												
19												
20												
21												
22			0.11									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.82	0.51	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	ACDC43 (Data taken from ALERT Gauge 4820)
Location	ACDC at 43rd Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.12									
5	0.08											
6	0.87											
7	0.16	0.12										
8												
9												
10												
11			0.43									
12												
13												
14												
15												
16												
17	0.04											
18												
19												
20												
21												
22												
23												
24		0.04										
25												
26												
27												
28												
29												
30												
31												
Month Total	1.15	0.16	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4510
Location	Roeser at Second Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1	gage down	gage down	gage down									
2	gage down	gage down	gage down									
3	gage down	gage down	gage down									
4	gage down	gage down	gage down									
5	gage down	gage down	gage down									
6	gage down	gage down	gage down									
7	gage down	gage down	gage down									
8	gage down	gage down	gage down									
9	gage down	gage down	gage down									
10	gage down	gage down	gage down									
11	gage down	gage down	gage down									
12	gage down	gage down	gage down									
13	gage down	gage down	gage down									
14	gage down	gage down	gage down									
15	gage down	gage down	gage down									
16	gage down	gage down	gage down									
17	gage down	gage down	gage down									
18	gage down	gage down	gage down									
19	gage down	gage down	gage down									
20	gage down	gage down	gage down									
21	gage down	gage down	gage down									
22	gage down	gage down	gage down									
23	gage down	gage down	gage down									
24	gage down	gage down	gage down									
25	gage down	gage down	gage down									
26	gage down	gage down	gage down									
27	gage down	gage down	gage down									
28	gage down	gage down	gage down									
29	gage down	gage down	gage down									
30	gage down	gage down	gage down									
31	gage down	gage down	gage down									
Month Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4600
Location	IBW at McKellips Road

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5												
6	0.43		0.39									
7	0.04											
8												
9												
10												
11												
12		0.83										
13												
14												
15		0.83										
16												
17		0.12										
18												
19												
20												
21												
22	0.08		0.28									
23												
24												
25												
26												
27												
28		0.04										
29												
30												
31												
Month Total	0.55	1.82	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4610
Location	IBW at Indian Bend Road

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5												
6	0.20		0.31									
7												
8												
9												
10												
11			0.04									
12												
13												
14												
15		0.16										
16												
17		0.20										
18												
19												
20												
21												
22	0.43		0.24									
23												
24												
25												
26												
27												
28		0.04										
29												
30												
31												
Month Total	0.63	0.40	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: 4630

Location: Thunderbird Academy - near Thunderbird and Scottsdale Roads

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4												
5			0.04									
6	0.12		0.12									
7												
8												
9												
10												
11			0.04									
12												
13												
14												
15												
16												
17		0.12										
18												
19												
20												
21												
22			0.12									
23												
24												
25												
26												
27												
28		0.12										
29												
30												
31												
Month Total	0.12	0.24	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4640
Location	IBW and Sweetwater Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5												
6	0.43		0.04									
7	0.20											
8	0.08											
9												
10												
11			0.08									
12												
13												
14												
15		0.39										
16												
17	0.28	0.12										
18												
19												
20												
21												
22			0.04									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.99	0.51	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4650
Location	Paradise Valley Park - near Union Hills Drive at 32nd Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5												
6	0.63	0.04										
7	0.28											
8												
9			0.04									
10												
11			0.08									
12												
13												
14												
15		0.12										
16												
17	0.24	0.04										
18												
19												
20												
21												
22			0.12									
23												
24		0.08										
25												
26												
27												
28												
29												
30												
31												
Month Total	1.15	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4700
Location	FCD - Durango Street at 27th Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4	0.04		0.12									
5	0.39											
6	0.43		0.47									
7												
8												
9			0.04									
10												
11			0.12									
12												
13												
14												
15												
16												
17		0.04										
18												
19												
20												
21												
22	0.24		0.12									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.10	0.04	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number 4730

Location near Thomas Road and 32nd Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5	0.04											
6	0.67		0.12									
7	0.04											
8												
9												
10												
11			0.16									
12												
13												
14												
15		0.08										
16			0.04									
17		0.08										
18	0.08											
19	0.39											
20												
21												
22	0.43		0.16									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.65	0.16	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4740
Location	Papago Park - near McDowell Road and 52nd Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5	0.04											
6	0.08		0.24									
7	0.04											
8												
9												
10												
11												
12		0.04										
13												
14												
15		0.24										
16												
17		0.35										
18												
19	0.24											
20												
21												
22	0.51		0.04									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.91	0.63	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4750
Location	Thomas Road at 48th Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1	gage down	gage down	gage down									
2	gage down	gage down	gage down									
3	gage down	gage down	gage down									
4	gage down	gage down	gage down									
5	gage down	gage down	gage down									
6	gage down	gage down	gage down									
7	gage down	gage down	gage down									
8	gage down	gage down	gage down									
9	gage down	gage down	gage down									
10	gage down	gage down	gage down									
11	gage down	gage down	gage down									
12	gage down	gage down	gage down									
13	gage down	gage down	gage down									
14	gage down	gage down	gage down									
15	gage down	gage down	gage down									
16	gage down	gage down	gage down									
17	gage down	gage down	gage down									
18	gage down	gage down	gage down									
19	gage down	gage down	gage down									
20	gage down	gage down	gage down									
21	gage down	gage down	gage down									
22	gage down	gage down	gage down									
23	gage down	gage down	gage down									
24	gage down	gage down	gage down									
25	gage down	gage down	gage down									
26	gage down	gage down	gage down									
27	gage down	gage down	gage down									
28	gage down	gage down	gage down									
29	gage down	gage down	gage down									
30	gage down	gage down	gage down									
31	gage down	gage down	gage down									
Month Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4760
Location	Maryvale Municipal Golf Course - near Indian School Road and 59th Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5	0.12											
6	0.20		0.12									
7	0.35	0.04										
8												
9												
10												
11			0.24									
12												
13												
14												
15		0.12										
16												
17		0.08										
18												
19												
20												
21												
22	0.04											
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.71	0.24	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: 4780

Location: Missouri Avenue at 16th Street

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5	0.04											
6	0.71		0.08									
7	0.04		0.04									
8												
9												
10												
11												
12												
13												
14												
15		0.16										
16			0.04									
17												
18												
19												
20												
21												
22			0.12									
23			0.04									
24												
25												
26												
27	0.04											
28												
29												
30												
31												
Month Total	0.83	0.16	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4800
Location	Dreamy Draw Dam

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5												
6	0.43		0.08									
7	0.08											
8												
9												
10												
11			0.08									
12												
13												
14												
15		0.63										
16												
17	0.08	0.12										
18												
19												
20												
21												
22			0.16									
23												
24		0.04										
25												
26												
27												
28												
29												
30												
31												
Month Total	0.59	0.79	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: 4820

Location: ACDC at 43rd Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.12									
5	0.08											
6	0.87											
7	0.16	0.12										
8												
9												
10												
11			0.43									
12												
13												
14												
15												
16												
17	0.04											
18												
19												
20												
21												
22												
23												
24		0.04										
25												
26												
27												
28												
29												
30												
31												
Month Total	1.15	0.16	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4830
Location	Cave Creek Wash at Cactus Road

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2			0.04									
3												
4			0.12									
5	0.08											
6	1.18		0.04									
7	0.16	0.35										
8												
9												
10												
11			0.47									
12												
13												
14												
15		0.04										
16												
17	0.04											
18												
19												
20												
21												
22			0.12									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.46	0.39	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	4840
Location	Greenway Road at 32nd Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.12									
5	0.08											
6	1.85											
7	0.59											
8												
9												
10												
11			0.47									
12												
13												
14												
15		0.12										
16			0.04									
17	0.04											
18												
19												
20												
21												
22			0.16									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	2.56	0.12	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number 4900

Location Cave Buttes Dam

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.04									
5	0.04	0.04										
6	0.16											
7	0.04	0.35										
8												
9												
10												
11			0.08									
12												
13												
14												
15		0.43										
16												
17		0.08										
18												
19												
20												
21												
22			0.08									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.24	0.90	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: 5400

Location: Agua Fria at Buckeye Road

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.16									
5	0.16											
6		0.04	0.08									
7	0.39	0.12										
8												
9			0.24									
10												
11			0.91									
12												
13												
14												
15												
16												
17	0.24	0.04										
18												
19												
20												
21												
22												
23	0.04											
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.83	0.20	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	5505
Location	New River at Glendale Avenue

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.12									
5	0.20											
6			0.08									
7	0.20	0.28										
8	0.04											
9			0.04									
10												
11			0.51									
12												
13												
14												
15												
16			0.08									
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.44	0.28	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	5535
Location	Adobe Dam

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5	0.04											
6	1.14	0.20	0.16									
7	0.98	0.47										
8												
9												
10												
11			0.59									
12												
13												
14												
15		0.20										
16												
17												
18												
19												
20												
21												
22			0.08									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	2.16	0.87	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: 5550

Location: Deer Valley Airport

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2			0.08									
3												
4			0.08									
5												
6	1.34		0.04									
7	0.31	0.67										
8												
9												
10												
11			0.43									
12												
13												
14												
15		0.83										
16												
17												
18												
19												
20												
21												
22			0.16									
23												
24	0.04											
25												
26												
27												
28												
29												
30												
31												
Month Total	1.69	1.50	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	5565
Location	Skunk Creek at I-17

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5		0.04										
6	1.77											
7	0.20	0.28										
8												
9												
10			0.04									
11			0.31									
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22			0.04									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.97	0.32	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	5595
Location	New River and Bell Road

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.08									
5		0.28										
6	0.79	0.31										
7												
8												
9			0.08									
10												
11			0.47									
12												
13												
14												
15												
16												
17		0.12										
18												
19												
20												
21												
22	0.16											
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.95	0.71	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number 6500

Location Guadalupe FRS

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4												
5												
6	0.20		0.24									
7	0.04											
8												
9												
10												
11												
12		0.71										
13												
14												
15		0.12										
16												
17		0.51										
18												
19												
20												
21												
22			0.24									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.24	1.34	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number 6510

Location South Mountain Park

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.12									
5	0.08											
6	0.83		0.47									
7	0.39											
8												
9												
10												
11												
12		0.20										
13												
14												
15		0.12										
16												
17		0.31										
18												
19												
20												
21												
22			0.16									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	1.30	0.63	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	6560
Location	South Mountain Fan

	July 1998	August 1998	September 1998	October 1998	November 1998	December 1998	January 1999	February 1999	March 1999	April 1999	May 1999	June 1999
1												
2												
3												
4			0.20									
5	0.08											
6	0.35		0.31									
7	0.31											
8												
9			0.04									
10												
11			0.04									
12												
13												
14												
15		0.24										
16												
17												
18												
19												
20												
21												
22			0.12									
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month Total	0.74	0.24	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Data Tables

SR-03
North bank of Salt River and 35th Avenue

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	
Time	No Samples Collected
Representative Storm Event	No Samples Collected
Agency Collecting Sample	No Samples Collected
Agency Analyzing Sample	No Samples Collected
Drainage Area (acres) (DA)	No Samples Collected
Impervious Area (acres) (IA)	No Samples Collected
Land Use - Residential	No Samples Collected
Land Use - Commercial	No Samples Collected
Land Use - Industrial	No Samples Collected
Land Use - Undeveloped	No Samples Collected
Sampling Duration (minutes)	No Samples Collected
Storm Duration (minutes) (DRN)	No Samples Collected
Runoff Sampled (cubic feet) (RUN)	No Samples Collected
Total Storm Runoff (cubic feet)	No Samples Collected
Instantaneous Discharge (cfs)	No Samples Collected
Preceeding Dry Period (days) (ANT)	No Samples Collected
Total Storm Rainfall (inch)	No Samples Collected
Rainfall Sampled (inch) (TRN)	No Samples Collected
Maximum 5-minute rain intensity (MAX5)	No Samples Collected
Sample Temperature (deg. C)	No Samples Collected
Effluent Temperature (deg. C)	No Samples Collected
Ambient Temperature (deg. C)	No Samples Collected
Barometric Pressure (mm Hg)	No Samples Collected
pH, Effluent (standard units)	No Samples Collected
pH, Lab (standard units)	No Samples Collected
Specific Conductance, FIELD (us/cm)	No Samples Collected
Specific Conductance, LAB (us/cm)	No Samples Collected
Oxygen Dissolved (% saturation)	No Samples Collected
Oxygen Dissolved (mg/l)	No Samples Collected
Electrical Conductivity (umhos/cm)	No Samples Collected
BOD5 (mg/l)	No Samples Collected
COD High Level (mg/l)	No Samples Collected
Chloride (mg/l as Cl)	No Samples Collected
Cyanide Total (mg/l as Cn)	No Samples Collected
Fecal Coliform (CFU/100mL)	No Samples Collected
Fecal Streptococci (CFU/100mL)	No Samples Collected
Total Dissolved Solids (mg/l)	No Samples Collected
Total Suspended Solids (mg/l)	No Samples Collected
Nitrogen No2 + No3, Total (mg/l as N)	No Samples Collected
TKN Nitrogen (mg/l as N)	No Samples Collected
Nitrogen, Ammonia + Organic, Total (mg/l as N)	No Samples Collected
Nitrogen Nitrate Total (mg/l as N)	No Samples Collected
Nitrogen Nitrite Total (mg/l as N)	No Samples Collected
Nitrogen Ammonia Total (mg/l as N)	No Samples Collected

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	
Nitrogen Organic Total (mg/l as N)	No Samples Collected
Phosphorous Total (mg/l as P)	No Samples Collected
Phosphorous Dissolved (mg/l as P)	No Samples Collected
Phosphorous Ortho (mg/l as P)	No Samples Collected
Sulfate Dissolved (mg/l)	No Samples Collected
Hexavalent Chromium Total (mg/l)	No Samples Collected
Phenols Total Recoverable (ug/l)	No Samples Collected
Oil and Grease Total Recoverable (mg/l)	No Samples Collected
Organic Carbon, Total (mg/l)	No Samples Collected
Bicarbonate Whole Field (mg/l as HCo3)	No Samples Collected
Bicarbonate Dissolved, Field (mg/l as HCo3)	No Samples Collected
Carbonate Water Field (mg/l as Co3)	No Samples Collected
Carbonate Water Dissolved, Field, (mg/l as Co3)	No Samples Collected
Alkalinity Water Field Total (mg/l as CaCo3)	No Samples Collected
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	No Samples Collected
Alkalinity LAB (mg/l as CaCo3)	No Samples Collected
Silica Dissolved (mg/l as SiO2)	No Samples Collected
Hardness (mg/l)	No Samples Collected
Antimony (ug/l as Sb)	No Samples Collected
Antimony Dissolved (ug/l as Sb)	No Samples Collected
Arsenic Total (ug/l as As)	No Samples Collected
Arsenic Dissolved (ug/l as As)	No Samples Collected
Barium Dissolved (ug/l as Ba)	No Samples Collected
Beryllium Total Recoverable (ug/l as Be)	No Samples Collected
Beryllium Dissolved (ug/l as Be)	No Samples Collected
Cadmium Total Recoverable (ug/l as Cd)	No Samples Collected
Cadmium Dissolved (ug/l as Cd)	No Samples Collected
Calcium Dissolved (mg/l as Ca)	No Samples Collected
Chromium Total Recoverable (ug/l as Cr)	No Samples Collected
Chromium Dissolved (ug/l as Cr)	No Samples Collected
Cobalt Dissolved (ug/l as Co)	No Samples Collected
Copper, Total Recoverable, (ug/l as Cu)	No Samples Collected
Copper, Dissolved, (ug/l as Cu)	No Samples Collected
Iron, Dissolved, (ug/l as Fe)	No Samples Collected
Lead, Total Recoverable, (ug/l as Pb)	No Samples Collected
Lead, Dissolved, (ug/l as Pb)	No Samples Collected
Lithium, Dissolved, (ug/l as Li)	No Samples Collected
Magnesium, Dissolved, (mg/l as Mg)	No Samples Collected
Manganese, Dissolved, (ug/l as Mn)	No Samples Collected
Mercury, Total Recoverable, (ug/l as Hg)	No Samples Collected
Mercury, Dissolved, (ug/l as Hg)	No Samples Collected
Molybdenum, Dissolved, (ug/l as Mo)	No Samples Collected
Nickel, Total Recoverable, (ug/l as Ni)	No Samples Collected
Nickel, Dissolved, (ug/l as Ni)	No Samples Collected

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	
Potassium, Dissolved, (mg/l as K)	No Samples Collected
Selenium, Total, (ug/l as Se)	No Samples Collected
Selenium, Dissolved, (ug/l as Se)	No Samples Collected
Silver, Total Recoverable, (ug/l as Ag)	No Samples Collected
Silver, Dissolved, (ug/l as Ag)	No Samples Collected
Sodium, Dissolved, (mg/l as Na)	No Samples Collected
Strontium, Dissolved, (ug/l as Sr)	No Samples Collected
Thallium, Total, (ug/l as Tl)	No Samples Collected
Thallium, Dissolved, (ug/l as Tl)	No Samples Collected
Vanadium, Dissolved, (ug/l as V)	No Samples Collected
Zinc, Total Recoverable, (ug/l as Zn)	No Samples Collected
Zinc, Dissolved, (ug/l as Zn)	No Samples Collected
Diazinon, Total, (ug/l)	No Samples Collected
Ethion, Total, (ug/l)	No Samples Collected
Malathion, Total, (ug/l)	No Samples Collected
Methyl Parathion, Total, (ug/l)	No Samples Collected
Parathion, Total, (ug/l)	No Samples Collected
Trithion, Total, (ug/l)	No Samples Collected
Di-syston, Total, (ug/l)	No Samples Collected
Phorate, Total, (ug/l)	No Samples Collected
Chlorpyrifos, Total, (ug/l)	No Samples Collected
DEF, Total, (ug/l)	No Samples Collected
Fonofos(Dy-fonate), WWT, (ug/l)	No Samples Collected
Aldrin, Total, (ug/l)	No Samples Collected
BHC - ALPHA, (ug/l)	No Samples Collected
BHC - Gamma (Lindane), (ug/l)	No Samples Collected
BHC - DELTA, (ug/l)	No Samples Collected
Aroclor 1016, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1221, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1232, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1242, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1248, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1254, PCB, Total, (ug/l)	No Samples Collected
Aroclor 1260, PCB, Total, (ug/L)	No Samples Collected
Chlordane, Total, (ug/l)	No Samples Collected
P,P' DDD, Total, (ug/l)	No Samples Collected
P,P' DDE, Total, (ug/l)	No Samples Collected
P, P' DDT, Total, (ug/l)	No Samples Collected
Dieldrin, Total, (ug/l)	No Samples Collected
Endo-Sulfan Alpha, Total, (ug/l)	No Samples Collected
Endo-Sulfan Beta, Total, (ug/l)	No Samples Collected
Endo-Sulfan Sulfate, Total, (ug/l)	No Samples Collected
Endrin Aldehyde, Total, (ug/l)	No Samples Collected
Endrin, Total, (ug/l)	No Samples Collected

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	
Heptachlor, Total, (ug/l)	No Samples Collected
Heptachlor Epoxide, Total, (ug/l)	No Samples Collected
Toxaphene, Total, (ug/l)	No Samples Collected
Methoxychlor, Total, (ug/l)	No Samples Collected
Beta Benzene Hexachloride, Total, (ug/l)	No Samples Collected
1,1,2,2-Tetrachloroethane, Total, (ug/l)	No Samples Collected
1,1,1,2-Tetrachloroethane, Total,(ug/l)	No Samples Collected
Tetrachloroethene, PCE, Total, (ug/l)	No Samples Collected
1,1,1- Trichloroethane, Total, (ug/l)	No Samples Collected
1,1,2- Trichloroethane, Total, (ug/l)	No Samples Collected
Trichloroethene, Total, (ug/l)	No Samples Collected
1,1- Dichloroethane, Total, (ug/l)	No Samples Collected
1,1- Dichloroethene, Total, (ug/l)	No Samples Collected
1,2- Dichloroethane, Total, (ug/l)	No Samples Collected
1,2- Dichloropropane, Total, (ug/l)	No Samples Collected
2- Chloroethylvinyl Ether, Total, (ug/l)	No Samples Collected
cis-1,3-Dichloropropene, (ug/l)	No Samples Collected
trans-1,2- Dichloroethene, (ug/l)	No Samples Collected
trans-1,3- Dichloropropene, (ug/l)	No Samples Collected
Benzene, Total, (ug/l)	No Samples Collected
Bromodichloromethane, Total, (ug/l)	No Samples Collected
Bromoform, Total, (ug/l)	No Samples Collected
Carbon Tetrachloride, Total, (ug/l)	No Samples Collected
Chlorobenzene, Total, (ug/l)	No Samples Collected
Chloroethane, (ug/l)	No Samples Collected
Chloroform, Total, (ug/l)	No Samples Collected
Ethyl-Benzene, Total, (ug/l)	No Samples Collected
Methylene Chloride, Total, (ug/l)	No Samples Collected
Toluene, Total, (ug/l)	No Samples Collected
Trichlorofluoromethane, Total, (ug/l)	No Samples Collected
Vinyl Chloride, Total, (ug/l)	No Samples Collected
Chlorodibromomethane, Total, (ug/l)	No Samples Collected
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	No Samples Collected
Acetone, Total, (ug/l)	No Samples Collected
2-Butanone, (ug/l)	No Samples Collected
Carbon Disulfide, Total, (ug/l)	No Samples Collected
1,2 Dichloroethene, Total, (ug/l)	No Samples Collected
Xylenes, Total, (ug/l)	No Samples Collected
2-Hexanone, Total, (ug/l)	No Samples Collected
Styrene, Total, (ug/l)	No Samples Collected
Acrolein, Total, (ug/l)	No Samples Collected
Acrylonitirile, Total, (ug/l)	No Samples Collected
Bromobenzene, Water Whole, Total, (ug/l)	No Samples Collected
1,3-Dichloropropane, Water Whole, Total, (ug/l)	No Samples Collected

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	
Methyl Bromide, Total, (ug/l)	No Samples Collected
Methyl Chloride, Total, (ug/l)	No Samples Collected
Parachloro Toluene, Total, (ug/l)	No Samples Collected
Dibromoethane, Total, (ug/l)	No Samples Collected
Acenaphthene, Total, (ug/l)	No Samples Collected
Acenaphthylene, Total, (ug/l)	No Samples Collected
Anthracene, Total, (ug/l)	No Samples Collected
Benzidine, Total, (ug/l)	No Samples Collected
Benzoic Acid, Total, (ug/l)	No Samples Collected
Benzo (a) Anthracene, Total, (ug/l)	No Samples Collected
Benzo (b) Fluoranthene, Total, (ug/l)	No Samples Collected
Benzo (k) Fluoranthene, Total, (ug/l)	No Samples Collected
Benzo (ghi) Perylene, Total, (ug/l)	No Samples Collected
Benzo (a) Pyrene, Total, (ug/l)	No Samples Collected
Benzyl Alcohol, Total, (ug/l)	No Samples Collected
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	No Samples Collected
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	No Samples Collected
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	No Samples Collected
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	No Samples Collected
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	No Samples Collected
Butyl Benzyl Phthalate, Total, (ug/l)	No Samples Collected
2-Chloronapthalene, Total, (ug/l)	No Samples Collected
2-Chlorophenol, Total, (ug/l)	No Samples Collected
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	No Samples Collected
Chrysene, Total, (ug/l)	No Samples Collected
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	No Samples Collected
Di-N-Butyl Phthalate, Total, (ug/l)	No Samples Collected
1,3- Dichlorobenzene, Total, (ug/l)	No Samples Collected
1,4- Dichlorobenzene, Total, (ug/l)	No Samples Collected
1,2- Dichlorobenzene, Total, (ug/l)	No Samples Collected
3,3'- Dichlorobenzidine, Total, (ug/l)	No Samples Collected
2,4- Dichlorophenol, Total, (ug/l)	No Samples Collected
Diethyl Phthalate, Total, (ug/l)	No Samples Collected
2,4- Dimethylphenol, Total, (ug/l)	No Samples Collected
Dimethyl Phthalate, Total, (ug/l)	No Samples Collected
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	No Samples Collected
2,4- Dinitrophenol, Total, (ug/l)	No Samples Collected
2,4- Dinitrotoluene, Total, (ug/l)	No Samples Collected
2,6- Dinitrotoluene, Total, (ug/l)	No Samples Collected
Di-N-Octyl-Phthalate, Total, (ug/l)	No Samples Collected
Fluoranthene, Total, (ug/l)	No Samples Collected
Fluorene, Total, (ug/l)	No Samples Collected
Hexachlorobenzene, Total, (ug/l)	No Samples Collected
Hexachlorobutadiene, Total, (ug/l)	No Samples Collected

Phoenix SR03 Salt River at 35th Avenue	
Date of Sampling	
Hexachlorocyclopentadiene, Total, (ug/l)	No Samples Collected
Hexachloroethane, Total, (ug/l)	No Samples Collected
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	No Samples Collected
Isophorone, Total, (ug/l)	No Samples Collected
Naphthalene, Total, (ug/l)	No Samples Collected
Nitrobenzene, Total, (ug/l)	No Samples Collected
2-Nitrophenol, Total, (ug/l)	No Samples Collected
4-Nitrophenol, Total, (ug/l)	No Samples Collected
N-Nitrosodiphenylamine, Total, (ug/l)	No Samples Collected
N-Nitrosodi-N-Propylamine, Total, (ug/l)	No Samples Collected
Pentachlorophenol, Total, (ug/l)	No Samples Collected
Phenanthrene, Total, (ug/l)	No Samples Collected
Phenol, Total, (ug/l)	No Samples Collected
Pyrene, Total, (ug/l)	No Samples Collected
1,2,4-Trichlorobenzene, Total, (ug/l)	No Samples Collected
2,4,5- Trichlorophenol, Total, (ug/l)	No Samples Collected
2,4,6- Trichlorophenol, Total, (ug/l)	No Samples Collected
N-Nitrosodimethylamine, Total, (ug/l)	No Samples Collected
1,2- Diphenylhydrazine, Total, (ug/l)	No Samples Collected
Dichlorodifluoromethane, Total, (ug/l)	No Samples Collected
Parachloro-Meta-Cresol, Total, (ug/l)	No Samples Collected

SR-45
South bank Salt River at 40th Street

Phoenix SR45

Salt River and 40th Street

Date of Sampling	07/22/1998	08/15/1998
Time	0940	2003
Representative Storm Event	N	N
Agency Collecting Sample	FCD	FCD
Agency Analyzing Sample	BOLIN	BOLIN
Drainage Area (acres) (DA)	880	880
Impervious Area (acres) (IA)	--	--
Land Use - Residential	5	5
Land Use - Commercial	0	0
Land Use - Industrial	564	564
Land Use - Undeveloped	310	310
Sampling Duration (minutes)	159	122
Storm Duration (minutes) (DRN)	47	37
Runoff Sampled (cubic feet) (RUN)	76,000	30,100
Total Storm Runoff (cubic feet)	76,700	30,300
Instantaneous Discharge (cfs)	34.4	20.8
Preceeding Dry Period (days) (ANT)	3	9
Total Storm Rainfall (inch)	1.83	0.81
Rainfall Sampled (inch) (TRN)	1.83	0.81
Maximum 5-minute rain intensity (MAX5)	6.12	2.88
Sample Temperature (deg. C)	4	4
Effluent Temperature (deg. C)	NM	NM
Ambient Temperature (deg. C)	NM	NM
Barometric Pressure (mm Hg)	NM	NM
pH, Effluent (standard units)	NM	NM
pH, Lab (standard units)	8	7.4
Specific Conductance, FIELD (us/cm)	--	--
Specific Conductance, LAB (us/cm)	--	--
Oxygen Dissolved (% saturation)	--	--
Oxygen Dissolved (mg/l)	8.2	9.4
Electrical Conductivity (umhos/cm)	--	--
BOD5 (mg/l)	9	72
COD High Level (mg/l)	232	175
Chloride (mg/l as Cl)	11	28
Cyanide Total (mg/l as Cn)	<0.01	--
Fecal Coliform (CFU/100mL)	24,000	>160,000
Fecal Streptococci (CFU/100mL)	16,000	>160,000
Total Dissolved Solids (mg/l)	89	148
Total Suspended Solids (mg/l)	190	163
Nitrogen No2 + No3, Total (mg/l as N)	1.3	1.9
TKN Nitrogen (mg/l as N)	2	0.7
Nitrogen, Ammonia + Organic, Total (mg/l as N)	2.58	0.83
Nitrogen Nitrate Total (mg/l as N)	1.3	1.9
Nitrogen Nitrite Total (mg/l as N)	<0.1	<0.1
Nitrogen Ammonia Total (mg/l as N)	2.58	0.83

Phoenix SR45 Salt River and 40th Street		
Date of Sampling	07/22/1998	08/15/1998
Nitrogen Organic Total (mg/l as N)	<0.5	<0.5
Phosphorous Total (mg/l as P)	0.26	0.6
Phosphorous Dissolved (mg/l as P)	0.3	0.6
Phosphorous Ortho (mg/l as P)	0.16	<0.05
Sulfate Dissolved (mg/l)	8	15
Hexavalent Chromium Total (mg/l)	<0.01	<0.010
Phenols Total Recoverable (ug/l)	<5	--
Oil and Grease Total Recoverable (mg/l)	<5.0	<5.0
Organic Carbon, Total (mg/l)	13	--
Bicarbonate Whole Field (mg/l as HCo3)	--	--
Bicarbonate Dissolved, Field (mg/l as HCo3)	--	--
Carbonate Water Field (mg/l as Co3)	--	--
Carbonate Water Dissolved, Field, (mg/l as Co3)	--	--
Alkalinity Water Field Total (mg/l as CaCo3)	--	--
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	--	--
Alkalinity LAB (mg/l as CaCo3)	34	34
Silica Dissolved (mg/l as SiO2)	--	--
Hardness (mg/l)	68	76
Antimony (ug/l as Sb)	<5	<5
Antimony Dissolved (ug/l as Sb)	<4	<4
Arsenic Total (ug/l as As)	8	<5
Arsenic Dissolved (ug/l as As)	<5	<5
Barium Dissolved (ug/l as Ba)	--	--
Beryllium Total Recoverable (ug/l as Be)	<2	<2
Beryllium Dissolved (ug/l as Be)	<2	<2
Cadmium Total Recoverable (ug/l as Cd)	1.1	0.28
Cadmium Dissolved (ug/l as Cd)	<1	0.36
Calcium Dissolved (mg/l as Ca)	--	--
Chromium Total Recoverable (ug/l as Cr)	15	3.7
Chromium Dissolved (ug/l as Cr)	3.4	3.6
Cobalt Dissolved (ug/l as Co)	--	--
Copper, Total Recoverable, (ug/l as Cu)	38	42
Copper, Dissolved, (ug/l as Cu)	23	<15
Iron, Dissolved, (ug/l as Fe)	--	--
Lead, Total Recoverable, (ug/l as Pb)	26	18
Lead, Dissolved, (ug/l as Pb)	6	<5
Lithium, Dissolved, (ug/l as Li)	--	--
Magnesium, Dissolved, (mg/l as Mg)	--	--
Manganese, Dissolved, (ug/l as Mn)	--	--
Mercury, Total Recoverable, (ug/l as Hg)	<0.2	<0.2
Mercury, Dissolved, (ug/l as Hg)	0.2	<0.2
Molybdenum, Dissolved, (ug/l as Mo)	--	--
Nickel, Total Recoverable, (ug/l as Ni)	22	2.8
Nickel, Dissolved, (ug/l as Ni)	<10	4.6

Phoenix SR45

Salt River and 40th Street

Date of Sampling	07/22/1998	08/15/1998
Potassium, Dissolved, (mg/l as K)	--	--
Selenium, Total, (ug/l as Se)	<5	<5
Selenium, Dissolved, (ug/l as Se)	<5	<5
Silver, Total Recoverable, (ug/l as Ag)	<40	<40
Silver, Dissolved, (ug/l as Ag)	<50	<50
Sodium, Dissolved, (mg/l as Na)	--	--
Strontium, Dissolved, (ug/l as Sr)	--	--
Thallium, Total, (ug/l as Tl)	<1	<1
Thallium, Dissolved, (ug/l as Tl)	<1	1
Vanadium, Dissolved, (ug/l as V)	--	--
Zinc, Total Recoverable, (ug/l as Zn)	200	230
Zinc, Dissolved, (ug/l as Zn)	80	20
Diazinon, Total, (ug/l)	--	--
Ethion, Total, (ug/l)	--	--
Malathion, Total, (ug/l)	--	--
Methyl Parathion, Total, (ug/l)	--	--
Parathion, Total, (ug/l)	--	--
Trithion, Total, (ug/l)	--	--
Di-syston, Total, (ug/l)	--	--
Phorate, Total, (ug/l)	--	--
Chlorpyrifos, Total, (ug/l)	--	--
DEF, Total, (ug/l)	--	--
Fonofos(Dy-fonate), WWT, (ug/l)	--	--
Aldrin, Total, (ug/l)	<1.0	--
BHC - ALPHA, (ug/l)	<1.0	--
BHC - Gamma (Lindane), (ug/l)	<1.0	--
BHC - DELTA, (ug/l)	<1.0	--
Aroclor 1016, PCB, Total, (ug/l)	<1.0	--
Aroclor 1221, PCB, Total, (ug/l)	<10	--
Aroclor 1232, PCB, Total, (ug/l)	<1.0	--
Aroclor 1242, PCB, Total, (ug/l)	<1.0	--
Aroclor 1248, PCB, Total, (ug/l)	<1.0	--
Aroclor 1254, PCB, Total, (ug/l)	<1.0	--
Aroclor 1260, PCB, Total, (ug/L)	<1.0	--
Chlordane, Total, (ug/l)	<1.0	--
P,P' DDD, Total, (ug/l)	<1.0	--
P,P' DDE, Total, (ug/l)	<1.0	--
P, P' DDT, Total, (ug/l)	<1.0	--
Dieldrin, Total, (ug/l)	<1.0	--
Endo-Sulfan Alpha, Total, (ug/l)	<1.0	--
Endo-Sulfan Beta, Total, (ug/l)	<1.0	--
Endo-Sulfan Sulfate, Total, (ug/l)	<1.0	--
Endrin Aldehyde, Total, (ug/l)	<1.0	--
Endrin, Total, (ug/l)	<1.0	--

Phoenix SR45 Salt River and 40th Street		
Date of Sampling	07/22/1998	08/15/1998
Heptachlor, Total, (ug/l)	<1.0	--
Heptachlor Epoxide, Total, (ug/l)	<1.0	--
Toxaphene, Total, (ug/l)	<1.0	--
Methoxychlor, Total, (ug/l)	<1.0	--
Beta Benzene Hexachloride, Total, (ug/l)	<1.0	--
1,1,2,2-Tetrachloroethane, Total, (ug/l)	<4	<40
1,1,1,2-Tetrachloroethane, Total,(ug/l)	--	--
Tetrachloroethene, PCE, Total, (ug/l)	<4	<40
1,1,1- Trichloroethane, Total, (ug/l)	<4	<40
1,1,2- Trichloroethane, Total, (ug/l)	<4	<40
Trichloroethene, Total, (ug/l)	<4	<40
1,1- Dichloroethane, Total, (ug/l)	<4	<40
1,1- Dichloroethene, Total, (ug/l)	<4	<40
1,2- Dichloroethane, Total, (ug/l)	<4	<40
1,2- Dichloropropane, Total, (ug/l)	<4	<40
2- Chloroethylvinyl Ether, Total, (ug/l)	<4	<40
cis-1,3-Dichloropropene, (ug/l)	<4	<40
trans-1,2- Dichloroethene, (ug/l)	<4	<40
trans-1,3- Dichloropropene, (ug/l)	<4	<40
Benzene, Total, (ug/l)	<4	<40
Bromodichloromethane, Total, (ug/l)	<4	<40
Bromoform, Total, (ug/l)	<4	<40
Carbon Tetrachloride, Total, (ug/l)	<4	<40
Chlorobenzene, Total, (ug/l)	<4	<40
Chloroethane, (ug/l)	<10	<100
Chloroform, Total, (ug/l)	<4	<40
Ethyl-Benzene, Total, (ug/l)	<4	<40
Methylene Chloride, Total, (ug/l)	--	--
Toluene, Total, (ug/l)	<4	<40
Trichlorofluoromethane, Total, (ug/l)	<4	<40
Vinyl Chloride, Total, (ug/l)	<10	<100
Chlorodibromomethane, Total, (ug/l)	<4	<40
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	--	--
Acetone, Total, (ug/l)	<50	<500
2-Butanone, (ug/l)	<20	<200
Carbon Disulfide, Total, (ug/l)	<20	<200
1,2 Dichloroethene, Total, (ug/l)	<4	<40
Xylenes, Total, (ug/l)	<4	<40
2-Hexanone, Total, (ug/l)	<20	<200
Styrene, Total, (ug/l)	<4	<40
Acrolein, Total, (ug/l)	<100	<1000
Acrylonitirile, Total, (ug/l)	<20	<200
Bromobenzene, Water Whole, Total, (ug/l)	--	--
1,3-Dichloropropane, Water Whole, Total, (ug/l)	--	--

Phoenix SR45 Salt River and 40th Street		
Date of Sampling	07/22/1998	08/15/1998
Methyl Bromide, Total, (ug/l)	<10	<100
Methyl Chloride, Total, (ug/l)	<10	<100
Parachloro Toluene, Total, (ug/l)	--	--
Dibromoethane, Total, (ug/l)	--	--
Acenaphthene, Total, (ug/l)	<5.0	--
Acenaphthylene, Total, (ug/l)	<5.0	--
Anthracene, Total, (ug/l)	<5.0	--
Benzidine, Total, (ug/l)	<5.0	--
Benzoic Acid, Total, (ug/l)	<5.0	--
Benzo (a) Anthracene, Total, (ug/l)	<5.0	--
Benzo (b) Fluoranthene, Total, (ug/l)	<5.0	--
Benzo (k) Fluoranthene, Total, (ug/l)	<5.0	--
Benzo (ghi) Perylene, Total, (ug/l)	<5.0	--
Benzo (a) Pyrene, Total, (ug/l)	<5.0	--
Benzyl Alcohol, Total, (ug/l)	<5.0	--
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	<5.0	--
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	<5.0	--
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	<5.0	--
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	23.1	--
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	<5.0	--
Butyl Benzyl Phthalate, Total, (ug/l)	<5.0	--
2-Chloronapthalene, Total, (ug/l)	<5.0	--
2-Chlorophenol, Total, (ug/l)	<5.0	--
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	<5.0	--
Chrysene, Total, (ug/l)	<5.0	--
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	<5.0	--
Di-N-Butyl Phthalate, Total, (ug/l)	<5.0	--
1,3- Dichlorobenzene, Total, (ug/l)	<5.0	--
1,4- Dichlorobenzene, Total, (ug/l)	<5.0	--
1,2- Dichlorobenzene, Total, (ug/l)	<5.0	--
3,3'- Dichlorobenzidine, Total, (ug/l)	<5.0	--
2,4- Dichlorophenol, Total, (ug/l)	<5.0	--
Diethyl Phthalate, Total, (ug/l)	<5.0	--
2,4- Dimethylphenol, Total, (ug/l)	<5.0	--
Dimethyl Phthalate, Total, (ug/l)	<5.0	--
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	<5.0	--
2,4- Dinitrophenol, Total, (ug/l)	<5.0	--
2,4- Dinitrotoluene, Total, (ug/l)	<5.0	--
2,6- Dinitrotoluene, Total, (ug/l)	<5.0	--
Di-N-Octyl-Phthalate, Total, (ug/l)	<5.0	--
Fluoranthene, Total, (ug/l)	<5.0	--
Fluorene, Total, (ug/l)	<5.0	--
Hexachlorobenzene, Total, (ug/l)	<5.0	--
Hexachlorobutadiene, Total, (ug/l)	<5.0	--

Phoenix SR45 Salt River and 40th Street		
Date of Sampling	07/22/1998	08/15/1998
Hexachlorocyclopentadiene, Total, (ug/l)	<5.0	--
Hexachloroethane, Total, (ug/l)	<5.0	--
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	<5.0	--
Isophorone, Total, (ug/l)	<5.0	--
Naphthalene, Total, (ug/l)	<5.0	--
Nitrobenzene, Total, (ug/l)	<5.0	--
2-Nitrophenol, Total, (ug/l)	<5.0	--
4-Nitrophenol, Total, (ug/l)	<5.0	--
N-Nitrosodiphenylamine, Total, (ug/l)	<5.0	--
N-Nitrosodi-N-Propylamine, Total, (ug/l)	<5.0	--
Pentachlorophenol, Total, (ug/l)	<5.0	--
Phenanthrene, Total, (ug/l)	<5.0	--
Phenol, Total, (ug/l)	<5.0	--
Pyrene, Total, (ug/l)	<5.0	--
1,2,4-Trichlorobenzene, Total, (ug/l)	<5.0	--
2,4,5- Trichlorophenol, Total, (ug/l)	<5.0	--
2,4,6- Trichlorophenol, Total, (ug/l)	<5.0	--
N-Nitrosodimethylamine, Total, (ug/l)	--	--
1,2- Diphenylhydrazine, Total, (ug/l)	--	--
Dichlorodifluoromethane, Total, (ug/l)	--	--
Parachloro-Meta-Cresol, Total, (ug/l)	--	--

SR-49
North bank Salt River at 67th Avenue

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Time	2205
Representative Storm Event	N
Agency Collecting Sample	FCD
Agency Analyzing Sample	BOLIN
Drainage Area (acres) (DA)	4738
Impervious Area (acres) (IA)	--
Land Use - Residential	590
Land Use - Commercial	0
Land Use - Industrial	1241
Land Use - Undeveloped	2896
Sampling Duration (minutes)	309
Storm Duration (minutes) (DRN)	319
Runoff Sampled (cubic feet) (RUN)	778,800
Total Storm Runoff (cubic feet)	3,300,000
Instantaneous Discharge (cfs)	83
Preceeding Dry Period (days) (ANT)	5
Total Storm Rainfall (inch)	0.19
Rainfall Sampled (inch) (TRN)	0.18
Maximum 5-minute rain intensity (MAX5)	1.44
Sample Temperature (deg. C)	4
Effluent Temperature (deg. C)	NM
Ambient Temperature (deg. C)	NM
Barometric Pressure (mm Hg)	NM
pH, Effluent (standard units)	8.4
pH, Lab (standard units)	7.4
Specific Conductance, FIELD (us/cm)	--
Specific Conductance, LAB (us/cm)	--
Oxygen Dissolved (% saturation)	--
Oxygen Dissolved (mg/l)	9.1
Electrical Conductivity (umhos/cm)	--
BOD5 (mg/l)	53
COD High Level (mg/l)	58
Chloride (mg/l as Cl)	23
Cyanide Total (mg/l as Cn)	<0.01
Fecal Coliform (CFU/100mL)	>160,000
Fecal Streptococci (CFU/100mL)	>160,000
Total Dissolved Solids (mg/l)	167
Total Suspended Solids (mg/l)	<1
Nitrogen No2 + No3, Total (mg/l as N)	<0.1
TKN Nitrogen (mg/l as N)	<0.5
Nitrogen, Ammonia + Organic, Total (mg/l as N)	0.44
Nitrogen Nitrate Total (mg/l as N)	<0.1
Nitrogen Nitrite Total (mg/l as N)	<0.1
Nitrogen Ammonia Total (mg/l as N)	0.44

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Nitrogen Organic Total (mg/l as N)	<0.5
Phosphorous Total (mg/l as P)	0.3
Phosphorous Dissolved (mg/l as P)	0.3
Phosphorous Ortho (mg/l as P)	0.1
Sulfate Dissolved (mg/l)	9
Hexavalent Chromium Total (mg/l)	<0.010
Phenols Total Recoverable (ug/l)	<5.0
Oil and Grease Total Recoverable (mg/l)	<5.0
Organic Carbon, Total (mg/l)	--
Bicarbonate Whole Field (mg/l as HCo3)	--
Bicarbonate Dissolved, Field (mg/l as HCo3)	--
Carbonate Water Field (mg/l as Co3)	--
Carbonate Water Dissolved, Field, (mg/l as Co3)	--
Alkalinity Water Field Total (mg/l as CaCo3)	--
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	--
Alkalinity LAB (mg/l as CaCo3)	90
Silica Dissolved (mg/l as SiO2)	--
Hardness (mg/l)	<7
Antimony (ug/l as Sb)	<5
Antimony Dissolved (ug/l as Sb)	<4
Arsenic Total (ug/l as As)	<5
Arsenic Dissolved (ug/l as As)	<5
Barium Dissolved (ug/l as Ba)	--
Beryllium Total Recoverable (ug/l as Be)	<2
Beryllium Dissolved (ug/l as Be)	<2
Cadmium Total Recoverable (ug/l as Cd)	<0.2
Cadmium Dissolved (ug/l as Cd)	<0.2
Calcium Dissolved (mg/l as Ca)	--
Chromium Total Recoverable (ug/l as Cr)	<1
Chromium Dissolved (ug/l as Cr)	<1
Cobalt Dissolved (ug/l as Co)	--
Copper, Total Recoverable, (ug/l as Cu)	<5
Copper, Dissolved, (ug/l as Cu)	<15
Iron, Dissolved, (ug/l as Fe)	--
Lead, Total Recoverable, (ug/l as Pb)	<5
Lead, Dissolved, (ug/l as Pb)	<5
Lithium, Dissolved, (ug/l as Li)	--
Magnesium, Dissolved, (mg/l as Mg)	--
Manganese, Dissolved, (ug/l as Mn)	--
Mercury, Total Recoverable, (ug/l as Hg)	<0.2
Mercury, Dissolved, (ug/l as Hg)	<0.2
Molybdenum, Dissolved, (ug/l as Mo)	--
Nickel, Total Recoverable, (ug/l as Ni)	<1
Nickel, Dissolved, (ug/l as Ni)	2.1

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Potassium, Dissolved, (mg/l as K)	--
Selenium, Total, (ug/l as Se)	<5
Selenium, Dissolved, (ug/l as Se)	<5
Silver, Total Recoverable, (ug/l as Ag)	<40
Silver, Dissolved, (ug/l as Ag)	<50
Sodium, Dissolved, (mg/l as Na)	--
Strontium, Dissolved, (ug/l as Sr)	--
Thallium, Total, (ug/l as Tl)	<1
Thallium, Dissolved, (ug/l as Tl)	<1
Vanadium, Dissolved, (ug/l as V)	--
Zinc, Total Recoverable, (ug/l as Zn)	<30
Zinc, Dissolved, (ug/l as Zn)	<20
Diazinon, Total, (ug/l)	--
Ethion, Total, (ug/l)	--
Malathion, Total, (ug/l)	--
Methyl Parathion, Total, (ug/l)	--
Parathion, Total, (ug/l)	--
Trithion, Total, (ug/l)	--
Di-syston, Total, (ug/l)	--
Phorate, Total, (ug/l)	--
Chlorpyrifos, Total, (ug/l)	--
DEF, Total, (ug/l)	--
Fonofos(Dy-fonate), WWT, (ug/l)	--
Aldrin, Total, (ug/l)	<1.0
BHC - ALPHA, (ug/l)	<1.0
BHC - Gamma (Lindane), (ug/l)	<1.0
BHC - DELTA, (ug/l)	<1.0
Aroclor 1016, PCB, Total, (ug/l)	<1.0
Aroclor 1221, PCB, Total, (ug/l)	<10
Aroclor 1232, PCB, Total, (ug/l)	<1.0
Aroclor 1242, PCB, Total, (ug/l)	<1.0
Aroclor 1248, PCB, Total, (ug/l)	<1.0
Aroclor 1254, PCB, Total, (ug/l)	<1.0
Aroclor 1260, PCB, Total, (ug/L)	<1.0
Chlordane, Total, (ug/l)	<1.0
P,P' DDD, Total, (ug/l)	<1.0
P,P' DDE, Total, (ug/l)	<1.0
P, P' DDT, Total, (ug/l)	<2.0
Dieldrin, Total, (ug/l)	<1.0
Endo-Sulfan Alpha, Total, (ug/l)	<1.0
Endo-Sulfan Beta, Total, (ug/l)	<1.0
Endo-Sulfan Sulfate, Total, (ug/l)	<1.0
Endrin Aldehyde, Total, (ug/l)	<1.0
Endrin, Total, (ug/l)	<1.0

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Heptachlor, Total, (ug/l)	<1.0
Heptachlor Epoxide, Total, (ug/l)	<1.0
Toxaphene, Total, (ug/l)	<1.0
Methoxychlor, Total, (ug/l)	--
Beta Benzene Hexachloride, Total, (ug/l)	<1.0
1,1,2,2-Tetrachloroethane, Total, (ug/l)	<8
1,1,1,2-Tetrachloroethane, Total,(ug/l)	--
Tetrachloroethene, PCE, Total, (ug/l)	<8
1,1,1- Trichloroethane, Total, (ug/l)	<8
1,1,2- Trichloroethane, Total, (ug/l)	<8
Trichloroethene, Total, (ug/l)	<8
1,1- Dichloroethane, Total, (ug/l)	<8
1,1- Dichloroethene, Total, (ug/l)	<8
1,2- Dichloroethane, Total, (ug/l)	<8
1,2- Dichloropropane, Total, (ug/l)	<8
2- Chloroethylvinyl Ether, Total, (ug/l)	<8
cis-1,3-Dichloropropene, (ug/l)	<8
trans-1,2- Dichloroethene, (ug/l)	<8
trans-1,3- Dichloropropene, (ug/l)	<8
Benzene, Total, (ug/l)	<8
Bromodichloromethane, Total, (ug/l)	<8
Bromoform, Total, (ug/l)	<8
Carbon Tetrachloride, Total, (ug/l)	<8
Chlorobenzene, Total, (ug/l)	<8
Chloroethane, (ug/l)	<20
Chloroform, Total, (ug/l)	<8
Ethyl-Benzene, Total, (ug/l)	<8
Methylene Chloride, Total, (ug/l)	--
Toluene, Total, (ug/l)	<8
Trichlorofluoromethane, Total, (ug/l)	<8
Vinyl Chloride, Total, (ug/l)	<20
Chlorodibromomethane, Total, (ug/l)	<8
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	--
Acetone, Total, (ug/l)	<100
2-Butanone, (ug/l)	<40
Carbon Disulfide, Total, (ug/l)	<40
1,2 Dichloroethene, Total, (ug/l)	<8
Xylenes, Total, (ug/l)	<8
2-Hexanone, Total, (ug/l)	<40
Styrene, Total, (ug/l)	<8
Acrolein, Total, (ug/l)	<200
Acrylonitirile, Total, (ug/l)	<40
Bromobenzene, Water Whole, Total, (ug/l)	--
1,3-Dichloropropane, Water Whole, Total, (ug/l)	--

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Methyl Bromide, Total, (ug/l)	<20
Methyl Chloride, Total, (ug/l)	<20
Parachloro Toluene, Total, (ug/l)	--
Dibromoethane, Total, (ug/l)	--
Acenaphthene, Total, (ug/l)	--
Acenaphthylene, Total, (ug/l)	<10
Anthracene, Total, (ug/l)	<5
Benzidine, Total, (ug/l)	<20
Benzoic Acid, Total, (ug/l)	<50
Benzo (a) Anthracene, Total, (ug/l)	<5
Benzo (b) Fluoranthene, Total, (ug/l)	<5
Benzo (k) Fluoranthene, Total, (ug/l)	<5
Benzo (ghi) Perylene, Total, (ug/l)	<5
Benzo (a) Pyrene, Total, (ug/l)	<5
Benzyl Alcohol, Total, (ug/l)	<10
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	<10
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	<10
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	<10
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	<10
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	<5
Butyl Benzyl Phthalate, Total, (ug/l)	<5
2-Chloronapthalene, Total, (ug/l)	<5
2-Chlorophenol, Total, (ug/l)	<10
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	<10
Chrysene, Total, (ug/l)	<5
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	<5
Di-N-Butyl Phthalate, Total, (ug/l)	<5
1,3- Dichlorobenzene, Total, (ug/l)	<5
1,4- Dichlorobenzene, Total, (ug/l)	<5
1,2- Dichlorobenzene, Total, (ug/l)	<5
3,3'- Dichlorobenzidine, Total, (ug/l)	<5
2,4- Dichlorophenol, Total, (ug/l)	<10
Diethyl Phthalate, Total, (ug/l)	<5
2,4- Dimethylphenol, Total, (ug/l)	<10
Dimethyl Phthalate, Total, (ug/l)	<5
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	<10
2,4- Dinitrophenol, Total, (ug/l)	<20
2,4- Dinitrotoluene, Total, (ug/l)	<5
2,6- Dinitrotoluene, Total, (ug/l)	<5
Di-N-Octyl-Phthalate, Total, (ug/l)	<5
Fluoranthene, Total, (ug/l)	<5
Fluorene, Total, (ug/l)	<5
Hexachlorobenzene, Total, (ug/l)	<10
Hexachlorobutadiene, Total, (ug/l)	<5

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	08/17/1998
Hexachlorocyclopentadiene, Total, (ug/l)	<5
Hexachloroethane, Total, (ug/l)	<10
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	<5
Isophorone, Total, (ug/l)	<10
Naphthalene, Total, (ug/l)	<5
Nitrobenzene, Total, (ug/l)	<10
2-Nitrophenol, Total, (ug/l)	<5
4-Nitrophenol, Total, (ug/l)	<5
N-Nitrosodiphenylamine, Total, (ug/l)	<5
N-Nitrosodi-N-Propylamine, Total, (ug/l)	<5
Pentachlorophenol, Total, (ug/l)	<10
Phenanthrene, Total, (ug/l)	<5
Phenol, Total, (ug/l)	<5
Pyrene, Total, (ug/l)	<5
1,2,4-Trichlorobenzene, Total, (ug/l)	<5
2,4,5- Trichlorophenol, Total, (ug/l)	<5
2,4,6- Trichlorophenol, Total, (ug/l)	<5
N-Nitrosodimethylamine, Total, (ug/l)	--
1,2- Diphenylhydrazine, Total, (ug/l)	--
Dichlorodifluoromethane, Total, (ug/l)	--
Parachloro-Meta-Cresol, Total, (ug/l)	--

IB-08
Indian Bend Wash at 40th Street

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	09/22/1998
Time	0438
Representative Storm Event	N
Agency Collecting Sample	FCD
Agency Analyzing Sample	BOLIN
Drainage Area (acres) (DA)	801
Impervious Area (acres) (IA)	--
Land Use - Residential	659
Land Use - Commercial	62
Land Use - Industrial	0
Land Use - Undeveloped	81
Sampling Duration (minutes)	116
Storm Duration (minutes) (DRN)	52
Runoff Sampled (cubic feet) (RUN)	64,225
Total Storm Runoff (cubic feet)	122,000
Instantaneous Discharge (cfs)	19.9
Preceeding Dry Period (days) (ANT)	11
Total Storm Rainfall (inch)	0.10
Rainfall Sampled (inch) (TRN)	0.10
Maximum 5-minute rain intensity (MAX5)	0.36
Sample Temperature (deg. C)	4
Effluent Temperature (deg. C)	26.4
Ambient Temperature (deg. C)	NM
Barometric Pressure (mm Hg)	NM
pH, Effluent (standard units)	7.8
pH, Lab (standard units)	7
Specific Conductance, FIELD (us/cm)	--
Specific Conductance, LAB (us/cm)	--
Oxygen Dissolved (% saturation)	--
Oxygen Dissolved (mg/l)	6.42
Electrical Conductivity (umhos/cm)	--
BOD5 (mg/l)	26
COD High Level (mg/l)	208
Chloride (mg/l as Cl)	5
Cyanide Total (mg/l as Cn)	<0.01
Fecal Coliform (CFU/100mL)	2,400
Fecal Streptococci (CFU/100mL)	90,000
Total Dissolved Solids (mg/l)	144
Total Suspended Solids (mg/l)	181
Nitrogen No2 + No3, Total (mg/l as N)	0.63
TKN Nitrogen (mg/l as N)	0.9
Nitrogen, Ammonia + Organic, Total (mg/l as N)	0.9
Nitrogen Nitrate Total (mg/l as N)	0.63
Nitrogen Nitrite Total (mg/l as N)	<0.1
Nitrogen Ammonia Total (mg/l as N)	0.29

Phoenix IB08 40th Street at Indian Bend Wash	
Date of Sampling	09/22/1998
Nitrogen Organic Total (mg/l as N)	0.61
Phosphorous Total (mg/l as P)	4.86
Phosphorous Dissolved (mg/l as P)	0.37
Phosphorous Ortho (mg/l as P)	<0.05
Sulfate Dissolved (mg/l)	13
Hexavalent Chromium Total (mg/l)	<0.010
Phenols Total Recoverable (ug/l)	<5.0
Oil and Grease Total Recoverable (mg/l)	<5.0
Organic Carbon, Total (mg/l)	33
Bicarbonate Whole Field (mg/l as HCo3)	--
Bicarbonate Dissolved, Field (mg/l as HCo3)	--
Carbonate Water Field (mg/l as Co3)	--
Carbonate Water Dissolved, Field, (mg/l as Co3)	--
Alkalinity Water Field Total (mg/l as CaCo3)	--
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	--
Alkalinity LAB (mg/l as CaCo3)	--
Silica Dissolved (mg/l as SiO2)	--
Hardness (mg/l)	66
Antimony (ug/l as Sb)	<5
Antimony Dissolved (ug/l as Sb)	<4
Arsenic Total (ug/l as As)	<5
Arsenic Dissolved (ug/l as As)	<5
Barium Dissolved (ug/l as Ba)	--
Beryllium Total Recoverable (ug/l as Be)	<2
Beryllium Dissolved (ug/l as Be)	<2
Cadmium Total Recoverable (ug/l as Cd)	0.58
Cadmium Dissolved (ug/l as Cd)	<0.5
Calcium Dissolved (mg/l as Ca)	--
Chromium Total Recoverable (ug/l as Cr)	6.1
Chromium Dissolved (ug/l as Cr)	1.9
Cobalt Dissolved (ug/l as Co)	--
Copper, Total Recoverable, (ug/l as Cu)	29
Copper, Dissolved, (ug/l as Cu)	18
Iron, Dissolved, (ug/l as Fe)	--
Lead, Total Recoverable, (ug/l as Pb)	16
Lead, Dissolved, (ug/l as Pb)	14
Lithium, Dissolved, (ug/l as Li)	--
Magnesium, Dissolved, (mg/l as Mg)	--
Manganese, Dissolved, (ug/l as Mn)	--
Mercury, Total Recoverable, (ug/l as Hg)	<0.2
Mercury, Dissolved, (ug/l as Hg)	<0.2
Molybdenum, Dissolved, (ug/l as Mo)	--
Nickel, Total Recoverable, (ug/l as Ni)	10
Nickel, Dissolved, (ug/l as Ni)	9.9

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	09/22/1998
Potassium, Dissolved, (mg/l as K)	--
Selenium, Total, (ug/l as Se)	<5
Selenium, Dissolved, (ug/l as Se)	<5
Silver, Total Recoverable, (ug/l as Ag)	<40
Silver, Dissolved, (ug/l as Ag)	<50
Sodium, Dissolved, (mg/l as Na)	--
Strontium, Dissolved, (ug/l as Sr)	--
Thallium, Total, (ug/l as Tl)	<1
Thallium, Dissolved, (ug/l as Tl)	<1
Vanadium, Dissolved, (ug/l as V)	--
Zinc, Total Recoverable, (ug/l as Zn)	220
Zinc, Dissolved, (ug/l as Zn)	190
Diazinon, Total, (ug/l)	--
Ethion, Total, (ug/l)	--
Malathion, Total, (ug/l)	--
Methyl Parathion, Total, (ug/l)	--
Parathion, Total, (ug/l)	--
Trithion, Total, (ug/l)	--
Di-syston, Total, (ug/l)	--
Phorate, Total, (ug/l)	--
Chlorpyrifos, Total, (ug/l)	--
DEF, Total, (ug/l)	--
Fonofos(Dy-fonate), WWT, (ug/l)	--
Aldrin, Total, (ug/l)	<1.0
BHC - ALPHA, (ug/l)	<1.0
BHC - Gamma (Lindane), (ug/l)	<1.0
BHC - DELTA, (ug/l)	<1.0
Aroclor 1016, PCB, Total, (ug/l)	<1.0
Aroclor 1221, PCB, Total, (ug/l)	<10
Aroclor 1232, PCB, Total, (ug/l)	<1.0
Aroclor 1242, PCB, Total, (ug/l)	<1.0
Aroclor 1248, PCB, Total, (ug/l)	<1.0
Aroclor 1254, PCB, Total, (ug/l)	<1.0
Aroclor 1260, PCB, Total, (ug/L)	<1.0
Chlordane, Total, (ug/l)	<1.0
P,P' DDD, Total, (ug/l)	<1.0
P,P' DDE, Total, (ug/l)	<1.0
P, P' DDT, Total, (ug/l)	<2.0
Dieldrin, Total, (ug/l)	<1.0
Endo-Sulfan Alpha, Total, (ug/l)	<1.0
Endo-Sulfan Beta, Total, (ug/l)	<1.0
Endo-Sulfan Sulfate, Total, (ug/l)	<1.0
Endrin Aldehyde, Total, (ug/l)	<1.0
Endrin, Total, (ug/l)	<1.0

Phoenix IB08 40th Street at Indian Bend Wash	
Date of Sampling	09/22/1998
Heptachlor, Total, (ug/l)	<1.0
Heptachlor Epoxide, Total, (ug/l)	<1.0
Toxaphene, Total, (ug/l)	<1.0
Methoxychlor, Total, (ug/l)	--
Beta Benzene Hexachloride, Total, (ug/l)	<1.0
1,1,2,2-Tetrachloroethane, Total, (ug/l)	<20
1,1,1,2-Tetrachloroethane, Total,(ug/l)	--
Tetrachloroethene, PCE, Total, (ug/l)	<20
1,1,1- Trichloroethane, Total, (ug/l)	<20
1,1,2- Trichloroethane, Total, (ug/l)	<20
Trichloroethene, Total, (ug/l)	<20
1,1- Dichloroethane, Total, (ug/l)	<20
1,1- Dichloroethene, Total, (ug/l)	<20
1,2- Dichloroethane, Total, (ug/l)	<20
1,2- Dichloropropane, Total, (ug/l)	<20
2- Chloroethylvinyl Ether, Total, (ug/l)	<20
cis-1,3-Dichloropropene, (ug/l)	<20
trans-1,2- Dichloroethene, (ug/l)	<20
trans-1,3- Dichloropropene, (ug/l)	<20
Benzene, Total, (ug/l)	<20
Bromodichloromethane, Total, (ug/l)	<20
Bromoform, Total, (ug/l)	<20
Carbon Tetrachloride, Total, (ug/l)	<20
Chlorobenzene, Total, (ug/l)	<20
Chloroethane, (ug/l)	<50
Chloroform, Total, (ug/l)	<20
Ethyl-Benzene, Total, (ug/l)	<20
Methylene Chloride, Total, (ug/l)	--
Toluene, Total, (ug/l)	<20
Trichlorofluoromethane, Total, (ug/l)	<50
Vinyl Chloride, Total, (ug/l)	<50
Chlorodibromomethane, Total, (ug/l)	<20
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	--
Acetone, Total, (ug/l)	<250
2-Butanone, (ug/l)	<100
Carbon Disulfide, Total, (ug/l)	<100
1,2 Dichloroethene, Total, (ug/l)	<20
Xylenes, Total, (ug/l)	<20
2-Hexanone, Total, (ug/l)	<100
Styrene, Total, (ug/l)	<20
Acrolein, Total, (ug/l)	<500
Acrylonitirile, Total, (ug/l)	<100
Bromobenzene, Water Whole, Total, (ug/l)	--
1,3-Dichloropropane, Water Whole, Total, (ug/l)	--

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	09/22/1998
Methyl Bromide, Total, (ug/l)	<50
Methyl Chloride, Total, (ug/l)	<50
Parachloro Toluene, Total, (ug/l)	--
Dibromoethane, Total, (ug/l)	--
Acenaphthene, Total, (ug/l)	--
Acenaphthylene, Total, (ug/l)	<20
Anthracene, Total, (ug/l)	<10
Benzidine, Total, (ug/l)	<40
Benzoic Acid, Total, (ug/l)	<100
Benzo (a) Anthracene, Total, (ug/l)	<10
Benzo (b) Fluoranthene, Total, (ug/l)	<10
Benzo (k) Fluoranthene, Total, (ug/l)	<10
Benzo (ghi) Perylene, Total, (ug/l)	<10
Benzo (a) Pyrene, Total, (ug/l)	<10
Benzyl Alcohol, Total, (ug/l)	<20
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	<20
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	<20
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	<20
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	<20
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	<10
Butyl Benzyl Phthalate, Total, (ug/l)	<10
2-Chloronapthalene, Total, (ug/l)	<10
2-Chlorophenol, Total, (ug/l)	<20
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	<20
Chrysene, Total, (ug/l)	<10
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	<10
Di-N-Butyl Phthalate, Total, (ug/l)	<10
1,3- Dichlorobenzene, Total, (ug/l)	<10
1,4- Dichlorobenzene, Total, (ug/l)	<10
1,2- Dichlorobenzene, Total, (ug/l)	<10
3,3'- Dichlorobenzidine, Total, (ug/l)	<10
2,4- Dichlorophenol, Total, (ug/l)	<20
Diethyl Phthalate, Total, (ug/l)	<10
2,4- Dimethylphenol, Total, (ug/l)	<20
Dimethyl Phthalate, Total, (ug/l)	<10
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	<20
2,4- Dinitrophenol, Total, (ug/l)	<40
2,4- Dinitrotoluene, Total, (ug/l)	<10
2,6- Dinitrotoluene, Total, (ug/l)	<10
Di-N-Octyl-Phthalate, Total, (ug/l)	<10
Fluoranthene, Total, (ug/l)	<10
Fluorene, Total, (ug/l)	<10
Hexachlorobenzene, Total, (ug/l)	<20
Hexachlorobutadiene, Total, (ug/l)	<10

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	09/22/1998
Hexachlorocyclopentadiene, Total, (ug/l)	<10
Hexachloroethane, Total, (ug/l)	<20
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	<10
Isophorone, Total, (ug/l)	<20
Naphthalene, Total, (ug/l)	<10
Nitrobenzene, Total, (ug/l)	<20
2-Nitrophenol, Total, (ug/l)	<10
4-Nitrophenol, Total, (ug/l)	<10
N-Nitrosodiphenylamine, Total, (ug/l)	<10
N-Nitrosodi-N-Propylamine, Total, (ug/l)	<10
Pentachlorophenol, Total, (ug/l)	<20
Phenanthrene, Total, (ug/l)	<10
Phenol, Total, (ug/l)	<10
Pyrene, Total, (ug/l)	<10
1,2,4-Trichlorobenzene, Total, (ug/l)	<10
2,4,5- Trichlorophenol, Total, (ug/l)	<10
2,4,6- Trichlorophenol, Total, (ug/l)	<10
N-Nitrosodimethylamine, Total, (ug/l)	--
1,2- Diphenylhydrazine, Total, (ug/l)	--
Dichlorodifluoromethane, Total, (ug/l)	--
Parachloro-Meta-Cresol, Total, (ug/l)	--

SR-30
South bank Salt River at 27th Avenue (USGS)

Phoenix SR30
27th Avenue at Salt River

Date of Sampling	07/07/1998	07/22/1998
Time	1911	1036
Representative Storm Event	N	N
Agency Collecting Sample	USGS	USGS
Agency Analyzing Sample	NWQL	NWQL
Drainage Area (acres) (DA)	1619	1619
Impervious Area (acres) (IA)	243	243
Land Use - Residential	143	143
Land Use - Commercial	0	0
Land Use - Industrial	123	123
Land Use - Undeveloped	1349	1349
Sampling Duration (minutes)	UA	UA
Storm Duration (minutes) (DRN)	96	38
Runoff Sampled (cubic feet) (RUN)	4011	13370
Total Storm Runoff (cubic feet)	UA	UA
Instantaneous Discharge (cfs)	2.2	7.1
Preceeding Dry Period (days) (ANT)	1	4
Total Storm Rainfall (inch)	UA	UA
Rainfall Sampled (inch) (TRN)	0.5	0.68
Maximum 5-minute rain intensity (MAX5)	1.56	2.28
Sample Temperature (deg. C)	NM	NM
Effluent Temperature (deg. C)	26.5	27
Ambient Temperature (deg. C)	NM	NM
Barometric Pressure (mm Hg)	734	735
pH, Effluent (standard units)	7.9	8
pH, Lab (standard units)	7.7	7.7
Specific Conductance, FIELD (us/cm)	253	368
Specific Conductance, LAB (us/cm)	299	207
Oxygen Dissolved (% saturation)	--	--
Oxygen Dissolved (mg/l)	5.4	5.4
Electrical Conductivity (umhos/cm)	--	--
BOD5 (mg/l)	--	--
COD High Level (mg/l)	67	55
Chloride (mg/l as Cl)	13	14
Cyanide Total (mg/l as Cn)	<0.010	<0.010
Fecal Coliform (CFU/100mL)	--	--
Fecal Streptococci (CFU/100mL)	--	--
Total Dissolved Solids (mg/l)	126	159
Total Suspended Solids (mg/l)	920	1240
Nitrogen No2 + No3, Total (mg/l as N)	2.7	2.5
TKN Nitrogen (mg/l as N)	--	--
Nitrogen, Ammonia + Organic, Total (mg/l as N)	2.8	7
Nitrogen Nitrate Total (mg/l as N)	2.59	2.26
Nitrogen Nitrite Total (mg/l as N)	0.11	0.24
Nitrogen Ammonia Total (mg/l as N)	1.1	0.88

Phoenix SR30
27th Avenue at Salt River

Date of Sampling	07/07/1998	07/22/1998
Nitrogen Organic Total (mg/l as N)	--	--
Phosphorous Total (mg/l as P)	0.91	0.66
Phosphorous Dissolved (mg/l as P)	<0.020	0.12
Phosphorous Ortho (mg/l as P)	0.21	0.13
Sulfate Dissolved (mg/l)	13	11
Hexavalent Chromium Total (mg/l)	--	--
Phenols Total Recoverable (ug/l)	3	<1
Oil and Grease Total Recoverable (mg/l)	9	7
Organic Carbon, Total (mg/l)	79	79
Bicarbonate Whole Field (mg/l as HCo3)	173	187
Bicarbonate Dissolved, Field (mg/l as HCo3)	33	54
Carbonate Water Field (mg/l as Co3)	0	0
Carbonate Water Dissolved, Field, (mg/l as Co3)	0	0
Alkalinity Water Field Total (mg/l as CaCo3)	142	153
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	27	44
Alkalinity LAB (mg/l as CaCo3)	156	203
Silica Dissolved (mg/l as SiO2)	--	--
Hardness (mg/l)	--	--
Antimony (ug/l as Sb)	--	--
Antimony Dissolved (ug/l as Sb)	--	--
Arsenic Total (ug/l as As)	18	25
Arsenic Dissolved (ug/l as As)	--	--
Barium Dissolved (ug/l as Ba)	--	--
Beryllium Total Recoverable (ug/l as Be)	--	<10
Beryllium Dissolved (ug/l as Be)	--	--
Cadmium Total Recoverable (ug/l as Cd)	3	4
Cadmium Dissolved (ug/l as Cd)	--	--
Calcium Dissolved (mg/l as Ca)	--	--
Chromium Total Recoverable (ug/l as Cr)	33	44
Chromium Dissolved (ug/l as Cr)	--	--
Cobalt Dissolved (ug/l as Co)	--	--
Copper, Total Recoverable, (ug/l as Cu)	180	200
Copper, Dissolved, (ug/l as Cu)	--	--
Iron, Dissolved, (ug/l as Fe)	--	--
Lead, Total Recoverable, (ug/l as Pb)	310	400
Lead, Dissolved, (ug/l as Pb)	--	--
Lithium, Dissolved, (ug/l as Li)	--	--
Magnesium, Dissolved, (mg/l as Mg)	--	--
Manganese, Dissolved, (ug/l as Mn)	--	--
Mercury, Total Recoverable, (ug/l as Hg)	<0.10	<0.10
Mercury, Dissolved, (ug/l as Hg)	--	--
Molybdenum, Dissolved, (ug/l as Mo)	--	--
Nickel, Total Recoverable, (ug/l as Ni)	60	81
Nickel, Dissolved, (ug/l as Ni)	--	--

Phoenix SR30 27th Avenue at Salt River		
Date of Sampling	07/07/1998	07/22/1998
Potassium, Dissolved, (mg/l as K)	--	--
Selenium, Total, (ug/l as Se)	<1	<4
Selenium, Dissolved, (ug/l as Se)	--	--
Silver, Total Recoverable, (ug/l as Ag)	<1	<1
Silver, Dissolved, (ug/l as Ag)	--	--
Sodium, Dissolved, (mg/l as Na)	--	--
Strontium, Dissolved, (ug/l as Sr)	--	--
Thallium, Total, (ug/l as Tl)	--	--
Thallium, Dissolved, (ug/l as Tl)	--	--
Vanadium, Dissolved, (ug/l as V)	--	--
Zinc, Total Recoverable, (ug/l as Zn)	710	1200
Zinc, Dissolved, (ug/l as Zn)	--	--
Diazinon, Total, (ug/l)	--	--
Ethion, Total, (ug/l)	--	--
Malathion, Total, (ug/l)	--	--
Methyl Parathion, Total, (ug/l)	--	--
Parathion, Total, (ug/l)	--	--
Trithion, Total, (ug/l)	--	--
Di-syston, Total, (ug/l)	--	--
Phorate, Total, (ug/l)	--	--
Chlorpyrifos, Total, (ug/l)	--	--
DEF, Total, (ug/l)	--	--
Fonofos(Dy-fonate), WWT, (ug/l)	--	--
Aldrin, Total, (ug/l)	--	--
BHC - ALPHA, (ug/l)	--	--
BHC - Gamma (Lindane), (ug/l)	--	--
BHC - DELTA, (ug/l)	--	--
Aroclor 1016, PCB, Total, (ug/l)	--	--
Aroclor 1221, PCB, Total, (ug/l)	--	--
Aroclor 1232, PCB, Total, (ug/l)	--	--
Aroclor 1242, PCB, Total, (ug/l)	--	--
Aroclor 1248, PCB, Total, (ug/l)	--	--
Aroclor 1254, PCB, Total, (ug/l)	--	--
Aroclor 1260, PCB, Total, (ug/L)	--	--
Chlordane, Total, (ug/l)	--	--
P,P' DDD, Total, (ug/l)	--	--
P,P' DDE, Total, (ug/l)	--	--
P, P' DDT, Total, (ug/l)	--	--
Dieldrin, Total, (ug/l)	--	--
Endo-Sulfan Alpha, Total, (ug/l)	--	--
Endo-Sulfan Beta, Total, (ug/l)	--	--
Endo-Sulfan Sulfate, Total, (ug/l)	--	--
Endrin Aldehyde, Total, (ug/l)	--	--
Endrin, Total, (ug/l)	--	--

Phoenix SR30 27th Avenue at Salt River		
Date of Sampling	07/07/1998	07/22/1998
Heptachlor, Total, (ug/l)	--	--
Heptachlor Epoxide, Total, (ug/l)	--	--
Toxaphene, Total, (ug/l)	--	--
Methoxychlor, Total, (ug/l)	--	--
Beta Benzene Hexachloride, Total, (ug/l)	--	--
1,1,2,2-Tetrachloroethane, Total, (ug/l)	--	--
1,1,1,2-Tetrachloroethane, Total,(ug/l)	--	--
Tetrachloroethene, PCE, Total, (ug/l)	--	--
1,1,1- Trichloroethane, Total, (ug/l)	--	--
1,1,2- Trichloroethane, Total, (ug/l)	--	--
Trichloroethene, Total, (ug/l)	--	--
1,1- Dichloroethane, Total, (ug/l)	--	--
1,1- Dichloroethene, Total, (ug/l)	--	--
1,2- Dichloroethane, Total, (ug/l)	--	--
1,2- Dichloropropane, Total, (ug/l)	--	--
2- Chloroethylvinyl Ether, Total, (ug/l)	--	--
cis-1,3-Dichloropropene, (ug/l)	--	--
trans-1,2- Dichloroethene, (ug/l)	--	--
trans-1,3- Dichloropropene, (ug/l)	--	--
Benzene, Total, (ug/l)	--	--
Bromodichloromethane, Total, (ug/l)	--	--
Bromoform, Total, (ug/l)	--	--
Carbon Tetrachloride, Total, (ug/l)	--	--
Chlorobenzene, Total, (ug/l)	--	--
Chloroethane, (ug/l)	--	--
Chloroform, Total, (ug/l)	--	--
Ethyl-Benzene, Total, (ug/l)	--	--
Methylene Chloride, Total, (ug/l)	--	--
Toluene, Total, (ug/l)	--	--
Trichlorofluoromethane, Total, (ug/l)	--	--
Vinyl Chloride, Total, (ug/l)	--	--
Chlorodibromomethane, Total, (ug/l)	--	--
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	--	--
Acetone, Total, (ug/l)	--	--
2-Butanone, (ug/l)	--	--
Carbon Disulfide, Total, (ug/l)	--	--
1,2 Dichloroethene, Total, (ug/l)	--	--
Xylenes, Total, (ug/l)	--	--
2-Hexanone, Total, (ug/l)	--	--
Styrene, Total, (ug/l)	--	--
Acrolein, Total, (ug/l)	--	--
Acrylonitirile, Total, (ug/l)	--	--
Bromobenzene, Water Whole, Total, (ug/l)	--	--
1,3-Dichloropropane, Water Whole, Total, (ug/l)	--	--

Phoenix SR30 27th Avenue at Salt River		
Date of Sampling	07/07/1998	07/22/1998
Methyl Bromide, Total, (ug/l)	--	--
Methyl Chloride, Total, (ug/l)	--	--
Parachloro Toluene, Total, (ug/l)	--	--
Dibromoethane, Total, (ug/l)	--	--
Acenaphthene, Total, (ug/l)	--	--
Acenaphthylene, Total, (ug/l)	--	--
Anthracene, Total, (ug/l)	--	--
Benzidine, Total, (ug/l)	--	--
Benzoic Acid, Total, (ug/l)	--	--
Benzo (a) Anthracene, Total, (ug/l)	--	--
Benzo (b) Fluoranthene, Total, (ug/l)	--	--
Benzo (k) Fluoranthene, Total, (ug/l)	--	--
Benzo (ghi) Perylene, Total, (ug/l)	--	--
Benzo (a) Pyrene, Total, (ug/l)	--	--
Benzyl Alcohol, Total, (ug/l)	--	--
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	--	--
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	--	--
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	--	--
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	--	--
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	--	--
Butyl Benzyl Phthalate, Total, (ug/l)	--	--
2-Chloronapthalene, Total, (ug/l)	--	--
2-Chlorophenol, Total, (ug/l)	--	--
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	--	--
Chrysene, Total, (ug/l)	--	--
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	--	--
Di-N-Butyl Phthalate, Total, (ug/l)	--	--
1,3- Dichlorobenzene, Total, (ug/l)	--	--
1,4- Dichlorobenzene, Total, (ug/l)	--	--
1,2- Dichlorobenzene, Total, (ug/l)	--	--
3,3'- Dichlorobenzidine, Total, (ug/l)	--	--
2,4- Dichlorophenol, Total, (ug/l)	--	--
Diethyl Phthalate, Total, (ug/l)	--	--
2,4- Dimethylphenol, Total, (ug/l)	--	--
Dimethyl Phthalate, Total, (ug/l)	--	--
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	--	--
2,4- Dinitrophenol, Total, (ug/l)	--	--
2,4- Dinitrotoluene, Total, (ug/l)	--	--
2,6- Dinitrotoluene, Total, (ug/l)	--	--
Di-N-Octyl-Phthalate, Total, (ug/l)	--	--
Fluoranthene, Total, (ug/l)	--	--
Fluorene, Total, (ug/l)	--	--
Hexachlorobenzene, Total, (ug/l)	--	--
Hexachlorobutadiene, Total, (ug/l)	--	--

Phoenix SR30 27th Avenue at Salt River		
Date of Sampling	07/07/1998	07/22/1998
Hexachlorocyclopentadiene, Total, (ug/l)	--	--
Hexachloroethane, Total, (ug/l)	--	--
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	--	--
Isophorone, Total, (ug/l)	--	--
Naphthalene, Total, (ug/l)	--	--
Nitrobenzene, Total, (ug/l)	--	--
2-Nitrophenol, Total, (ug/l)	--	--
4-Nitrophenol, Total, (ug/l)	--	--
N-Nitrosodiphenylamine, Total, (ug/l)	--	--
N-Nitrosodi-N-Propylamine, Total, (ug/l)	--	--
Pentachlorophenol, Total, (ug/l)	--	--
Phenanthrene, Total, (ug/l)	--	--
Phenol, Total, (ug/l)	--	--
Pyrene, Total, (ug/l)	--	--
1,2,4-Trichlorobenzene, Total, (ug/l)	--	--
2,4,5- Trichlorophenol, Total, (ug/l)	--	--
2,4,6- Trichlorophenol, Total, (ug/l)	--	--
N-Nitrosodimethylamine, Total, (ug/l)	--	--
1,2- Diphenylhydrazine, Total, (ug/l)	--	--
Dichlorodifluoromethane, Total, (ug/l)	--	--
Parachloro-Meta-Cresol, Total, (ug/l)	--	--

ACDC and 43rd Avenue (USGS)

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	07/06/1998	08/07/1998
Time	2057	2232
Representative Storm Event	N	N
Agency Collecting Sample	USGS	USGS
Agency Analyzing Sample	NWQL	NWQL
Drainage Area (acres) (DA)	3.4	3.4
Impervious Area (acres) (IA)	3.2	3.2
Land Use - Residential	0	0
Land Use - Commercial	3.2	3.2
Land Use - Industrial	0	0
Land Use - Undeveloped	0.2	0.2
Sampling Duration (minutes)	UA	UA
Storm Duration (minutes) (DRN)	52	66
Runoff Sampled (cubic feet) (RUN)	5348	1337
Total Storm Runoff (cubic feet)	UA	UA
Instantaneous Discharge (cfs)	3.6	0.95
Preceeding Dry Period (days) (ANT)	1	21
Total Storm Rainfall (inch) (TRN)	0.67	0.26
Rainfall Sampled (inch)	UA	UA
Maximum 5-minute rain intensity (MAX5)	1.92	1.44
Sample Temperature (deg. C)	NM	NM
Effluent Temperature (deg. C)	27	27.5
Ambient Temperature (deg. C)	NM	NM
Barometric Pressure (mm Hg)	730	728
pH, Effluent (standard units)	7.4	6.5
pH, Lab (standard units)	6.3	6
Specific Conductance, FIELD (us/cm)	64	158
Specific Conductance, LAB (us/cm)	75	405
Oxygen Dissolved (% saturation)	--	--
Oxygen Dissolved (mg/l)	7.1	6.8
Electrical Conductivity (umhos/cm)	--	--
BOD5 (mg/l)	--	--
COD High Level (mg/l)	91	410
Chloride (mg/l as Cl)	2.8	46
Cyanide Total (mg/l as Cn)	0.01	0.014
Fecal Coliform (CFU/100mL)	--	--
Fecal Streptococci (CFU/100mL)	--	--
Total Dissolved Solids (mg/l)	81	423
Total Suspended Solids (mg/l)	224	328
Nitrogen No2 + No3, Total (mg/l as N)	0.8	3
TKN Nitrogen (mg/l as N)	--	--
Nitrogen, Ammonia + Organic, Total (mg/l as N)	2.5	12
Nitrogen Nitrate Total (mg/l as N)	0.782	2.96
Nitrogen Nitrite Total (mg/l as N)	0.018	0.037
Nitrogen Ammonia Total (mg/l as N)	2.1	3.8

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	07/06/1998	08/07/1998
Nitrogen Organic Total (mg/l as N)	--	--
Phosphorous Total (mg/l as P)	0.47	0.92
Phosphorous Dissolved (mg/l as P)	0.16	0.79
Phosphorous Ortho (mg/l as P)	0.14	0.59
Sulfate Dissolved (mg/l)	6.1	42
Hexavalent Chromium Total (mg/l)	--	--
Phenols Total Recoverable (ug/l)	9	16
Oil and Grease Total Recoverable (mg/l)	14	15
Organic Carbon, Total (mg/l)	55	190
Bicarbonate Whole Field (mg/l as HCo3)	20	49
Bicarbonate Dissolved, Field (mg/l as HCo3)	7	13
Carbonate Water Field (mg/l as Co3)	0	0
Carbonate Water Dissolved, Field, (mg/l as Co3)	0	0
Alkalinity Water Field Total (mg/l as CaCo3)	16	40
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	6	11
Alkalinity LAB (mg/l as CaCo3)	22	57
Silica Dissolved (mg/l as SiO2)	--	--
Hardness (mg/l)	--	--
Antimony (ug/l as Sb)	--	--
Antimony Dissolved (ug/l as Sb)	--	--
Arsenic Total (ug/l as As)	4	8
Arsenic Dissolved (ug/l as As)	--	--
Barium Dissolved (ug/l as Ba)	--	--
Beryllium Total Recoverable (ug/l as Be)	<10	<10
Beryllium Dissolved (ug/l as Be)	--	--
Cadmium Total Recoverable (ug/l as Cd)	<1	2
Cadmium Dissolved (ug/l as Cd)	--	--
Calcium Dissolved (mg/l as Ca)	--	--
Chromium Total Recoverable (ug/l as Cr)	9	12
Chromium Dissolved (ug/l as Cr)	--	--
Cobalt Dissolved (ug/l as Co)	--	--
Copper, Total Recoverable, (ug/l as Cu)	39	63
Copper, Dissolved, (ug/l as Cu)	--	--
Iron, Dissolved, (ug/l as Fe)	--	--
Lead, Total Recoverable, (ug/l as Pb)	17	23
Lead, Dissolved, (ug/l as Pb)	--	--
Lithium, Dissolved, (ug/l as Li)	--	--
Magnesium, Dissolved, (mg/l as Mg)	--	--
Manganese, Dissolved, (ug/l as Mn)	--	--
Mercury, Total Recoverable, (ug/l as Hg)	<0.10	<0.10
Mercury, Dissolved, (ug/l as Hg)	--	--
Molybdenum, Dissolved, (ug/l as Mo)	--	--
Nickel, Total Recoverable, (ug/l as Ni)	27	33
Nickel, Dissolved, (ug/l as Ni)	--	--

Phoenix ACDC ACDC near 43rd Avenue		
Date of Sampling	07/06/1998	08/07/1998
Potassium, Dissolved, (mg/l as K)	--	--
Selenium, Total, (ug/l as Se)	<1	<1
Selenium, Dissolved, (ug/l as Se)	--	--
Silver, Total Recoverable, (ug/l as Ag)	<1	<1
Silver, Dissolved, (ug/l as Ag)	--	--
Sodium, Dissolved, (mg/l as Na)	--	--
Strontium, Dissolved, (ug/l as Sr)	--	--
Thallium, Total, (ug/l as Tl)	--	--
Thallium, Dissolved, (ug/l as Tl)	--	--
Vanadium, Dissolved, (ug/l as V)	--	--
Zinc, Total Recoverable, (ug/l as Zn)	270	610
Zinc, Dissolved, (ug/l as Zn)	--	--
Diazinon, Total, (ug/l)	--	--
Ethion, Total, (ug/l)	--	--
Malathion, Total, (ug/l)	--	--
Methyl Parathion, Total, (ug/l)	--	--
Parathion, Total, (ug/l)	--	--
Trithion, Total, (ug/l)	--	--
Di-syston, Total, (ug/l)	--	--
Phorate, Total, (ug/l)	--	--
Chlorpyrifos, Total, (ug/l)	--	--
DEF, Total, (ug/l)	--	--
Fonofos(Dy-fonate), WWT, (ug/l)	--	--
Aldrin, Total, (ug/l)	--	--
BHC - ALPHA, (ug/l)	--	--
BHC - Gamma (Lindane), (ug/l)	--	--
BHC - DELTA, (ug/l)	--	--
Aroclor 1016, PCB, Total, (ug/l)	--	--
Aroclor 1221, PCB, Total, (ug/l)	--	--
Aroclor 1232, PCB, Total, (ug/l)	--	--
Aroclor 1242, PCB, Total, (ug/l)	--	--
Aroclor 1248, PCB, Total, (ug/l)	--	--
Aroclor 1254, PCB, Total, (ug/l)	--	--
Aroclor 1260, PCB, Total, (ug/L)	--	--
Chlordane, Total, (ug/l)	--	--
P,P' DDD, Total, (ug/l)	--	--
P,P' DDE, Total, (ug/l)	--	--
P, P' DDT, Total, (ug/l)	--	--
Dieldrin, Total, (ug/l)	--	--
Endo-Sulfan Alpha, Total, (ug/l)	--	--
Endo-Sulfan Beta, Total, (ug/l)	--	--
Endo-Sulfan Sulfate, Total, (ug/l)	--	--
Endrin Aldehyde, Total, (ug/l)	--	--
Endrin, Total, (ug/l)	--	--

Phoenix ACDC ACDC near 43rd Avenue		
Date of Sampling	07/06/1998	08/07/1998
Heptachlor, Total, (ug/l)	--	--
Heptachlor Epoxide, Total, (ug/l)	--	--
Toxaphene, Total, (ug/l)	--	--
Methoxychlor, Total, (ug/l)	--	--
Beta Benzene Hexachloride, Total, (ug/l)	--	--
1,1,2,2-Tetrachloroethane, Total, (ug/l)	--	--
1,1,1,2-Tetrachloroethane, Total,(ug/l)	--	--
Tetrachloroethene, PCE, Total, (ug/l)	--	--
1,1,1- Trichloroethane, Total, (ug/l)	--	--
1,1,2- Trichloroethane, Total, (ug/l)	--	--
Trichloroethene, Total, (ug/l)	--	--
1,1- Dichloroethane, Total, (ug/l)	--	--
1,1- Dichloroethene, Total, (ug/l)	--	--
1,2- Dichloroethane, Total, (ug/l)	--	--
1,2- Dichloropropane, Total, (ug/l)	--	--
2- Chloroethylvinyl Ether, Total, (ug/l)	--	--
cis-1,3-Dichloropropene, (ug/l)	--	--
trans-1,2- Dichloroethene, (ug/l)	--	--
trans-1,3- Dichloropropene, (ug/l)	--	--
Benzene, Total, (ug/l)	--	--
Bromodichloromethane, Total, (ug/l)	--	--
Bromoform, Total, (ug/l)	--	--
Carbon Tetrachloride, Total, (ug/l)	--	--
Chlorobenzene, Total, (ug/l)	--	--
Chloroethane, (ug/l)	--	--
Chloroform, Total, (ug/l)	--	--
Ethyl-Benzene, Total, (ug/l)	--	--
Methylene Chloride, Total, (ug/l)	--	--
Toluene, Total, (ug/l)	--	--
Trichlorofluoromethane, Total, (ug/l)	--	--
Vinyl Chloride, Total, (ug/l)	--	--
Chlorodibromomethane, Total, (ug/l)	--	--
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	--	--
Acetone, Total, (ug/l)	--	--
2-Butanone, (ug/l)	--	--
Carbon Disulfide, Total, (ug/l)	--	--
1,2 Dichloroethene, Total, (ug/l)	--	--
Xylenes, Total, (ug/l)	--	--
2-Hexanone, Total, (ug/l)	--	--
Styrene, Total, (ug/l)	--	--
Acrolein, Total, (ug/l)	--	--
Acrylonitirile, Total, (ug/l)	--	--
Bromobenzene, Water Whole, Total, (ug/l)	--	--
1,3-Dichloropropane, Water Whole, Total, (ug/l)	--	--

Phoenix ACDC ACDC near 43rd Avenue		
Date of Sampling	07/06/1998	08/07/1998
Methyl Bromide, Total, (ug/l)	--	--
Methyl Chloride, Total, (ug/l)	--	--
Parachloro Toluene, Total, (ug/l)	--	--
Dibromoethane, Total, (ug/l)	--	--
Acenaphthene, Total, (ug/l)	--	--
Acenaphthylene, Total, (ug/l)	--	--
Anthracene, Total, (ug/l)	--	--
Benzidine, Total, (ug/l)	--	--
Benzoic Acid, Total, (ug/l)	--	--
Benzo (a) Anthracene, Total, (ug/l)	--	--
Benzo (b) Fluoranthene, Total, (ug/l)	--	--
Benzo (k) Fluoranthene, Total, (ug/l)	--	--
Benzo (ghi) Perylene, Total, (ug/l)	--	--
Benzo (a) Pyrene, Total, (ug/l)	--	--
Benzyl Alcohol, Total, (ug/l)	--	--
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	--	--
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	--	--
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	--	--
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	--	--
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	--	--
Butyl Benzyl Phthalate, Total, (ug/l)	--	--
2-Chloronapthalene, Total, (ug/l)	--	--
2-Chlorophenol, Total, (ug/l)	--	--
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	--	--
Chrysene, Total, (ug/l)	--	--
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	--	--
Di-N-Butyl Phthalate, Total, (ug/l)	--	--
1,3- Dichlorobenzene, Total, (ug/l)	--	--
1,4- Dichlorobenzene, Total, (ug/l)	--	--
1,2- Dichlorobenzene, Total, (ug/l)	--	--
3,3'- Dichlorobenzidine, Total, (ug/l)	--	--
2,4- Dichlorophenol, Total, (ug/l)	--	--
Diethyl Phthalate, Total, (ug/l)	--	--
2,4- Dimethylphenol, Total, (ug/l)	--	--
Dimethyl Phthalate, Total, (ug/l)	--	--
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	--	--
2,4- Dinitrophenol, Total, (ug/l)	--	--
2,4- Dinitrotoluene, Total, (ug/l)	--	--
2,6- Dinitrotoluene, Total, (ug/l)	--	--
Di-N-Octyl-Phthalate, Total, (ug/l)	--	--
Fluoranthene, Total, (ug/l)	--	--
Fluorene, Total, (ug/l)	--	--
Hexachlorobenzene, Total, (ug/l)	--	--
Hexachlorobutadiene, Total, (ug/l)	--	--

Phoenix ACDC ACDC near 43rd Avenue		
Date of Sampling	07/06/1998	08/07/1998
Hexachlorocyclopentadiene, Total, (ug/l)	--	--
Hexachloroethane, Total, (ug/l)	--	--
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	--	--
Isophorone, Total, (ug/l)	--	--
Naphthalene, Total, (ug/l)	--	--
Nitrobenzene, Total, (ug/l)	--	--
2-Nitrophenol, Total, (ug/l)	--	--
4-Nitrophenol, Total, (ug/l)	--	--
N-Nitrosodiphenylamine, Total, (ug/l)	--	--
N-Nitrosodi-N-Propylamine, Total, (ug/l)	--	--
Pentachlorophenol, Total, (ug/l)	--	--
Phenanthrene, Total, (ug/l)	--	--
Phenol, Total, (ug/l)	--	--
Pyrene, Total, (ug/l)	--	--
1,2,4-Trichlorobenzene, Total, (ug/l)	--	--
2,4,5- Trichlorophenol, Total, (ug/l)	--	--
2,4,6- Trichlorophenol, Total, (ug/l)	--	--
N-Nitrosodimethylamine, Total, (ug/l)	--	--
1,2- Diphenylhydrazine, Total, (ug/l)	--	--
Dichlorodifluoromethane, Total, (ug/l)	--	--
Parachloro-Meta-Cresol, Total, (ug/l)	--	--

Validation Tables

Phoenix ACDC and 43rd Ave

July 6, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		NM												
Effluent Temperature (deg. C)		27												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		730												
pH, Effluent (standard units)		7.4												
pH, Lab (standard units)	150.1	6.3	std units			within limit	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		64												
Specific Conductance, LAB (us/cm)		75												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	7.1	mg/l			within limit	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			within limit	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		within limit	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	91	mg/l	1		within limit	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	2.8	mg/l			within limit	28 days							
Cyanide Total (mg/l as Cn)	4500	0.01	mg/l			within limit	14 days							
Fecal Coliform (CFU/100mL)	9221D	--	CFU/100ml	2			6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	--	CFU/100ml	2			6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	81	mg/l	10		within limit	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	224	mg/l	10		within limit	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	0.8	mg/l	0.05		within limit				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	--	mg/l				28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	2.5	mg/l			within limit								
Nitrogen Nitrate Total (mg/l as N)	300.0	0.782	mg/l			within limit	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.018	mg/l			within limit	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	2.1	mg/l			within limit	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.47	mg/l	0.05		within limit	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.16	mg/l			within limit	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.14	mg/l	0.05		within limit	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	6.1	mg/l			within limit	28 days							
Hexavalent Chromium Total (mg/l)	3500	--	mg/l				24 hours							
Phenols Total Recoverable (ug/l)	420.1	9	ug/l			within limit	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	14	mg/l	0.2	R	within limit	28 days	<30	n/a	<50	n/a			Incorrect collection method
Organic Carbon, Total (mg/l)	5310C	55	mg/l			within limit	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		20												
Bicarbonate Dissolved, Field (mg/l as HCo3)		7												
Carbonate Water Field (mg/l as Co3)		0												
Carbonate Water Dissolved, Field, (mg/l as Co3)		0												
Alkalinity Water Field Total (mg/l as CaCo3)		16												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		6												
Alkalinity LAB (mg/l as CaCo3)	2320B	22	mg/l			within limit	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	--	mg/l	1			6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	--	ug/l				6 months							
Antimony Dissolved (ug/l as Sb)	200.9	--	ug/l				6 months							
Arsenic Total (ug/l as As)	3113B	4	ug/l			within limit	6 months							
Arsenic Dissolved (ug/l as As)	200.9	--	ug/l				6 months							

R - Rejected Data

Phoenix ACDC and 43rd Ave

July 6, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Barium Dissolved (ug/l as Ba)		--												
Beryllium Total Recoverable (ug/l as Be)	200.7	<10	ug/l			within limit	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	--	ug/l				6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	<1	ug/l	0.2		within limit	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	--	ug/l				6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	9	ug/l	1		within limit	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	--	ug/l				6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	39	ug/l	1		within limit	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	--	ug/l				6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	17	ug/l	1		within limit	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	--	ug/l				6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.10	ug/l			within limit	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	--	ug/l				6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	27	ug/l	2		within limit	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	--	ug/l				6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<1	ug/l			within limit	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	--	ug/l				6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<1	ug/l			within limit	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	--	ug/l				6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	--	ug/l				6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	--	ug/l				6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	270	ug/l	1		within limit	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	--	ug/l				6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction		--					7 days							
Aldrin, Total, (ug/l)	608	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
BHC - ALPHA, (ug/l)	608	--	ug/l				40 days							
BHC - Gamma (Lindane), (ug/l)	608	--	ug/l				40 days							
BHC - DELTA, (ug/l)	608	--	ug/l				40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	--	ug/l				40 days							
Chlordane, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDD, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDE, Total, (ug/l)	608	--	ug/l				40 days							
P, P' DDT, Total, (ug/l)	608	--	ug/l				40 days							
Dieldrin, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	--	ug/l				40 days							
Endrin Aldehyde, Total, (ug/l)	608	--	ug/l				40 days							
Endrin, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor Epoxide, Total, (ug/l)	608	--	ug/l				40 days							
Toxaphene, Total, (ug/l)	608	--	ug/l				40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	--	ug/l				40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l				14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l				14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l				14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l				14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l				14 days							
Benzene, Total, (ug/l)	624	--	ug/l				14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l				14 days							
Bromoform, Total, (ug/l)	624	--	ug/l				14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l				14 days							
Chloroethane, (ug/l)	624	--	ug/l				14 days							
Chloroform, Total, (ug/l)	624	--	ug/l				14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l				14 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	--	ug/l				14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l				14 days							
Vinyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l				14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	--	ug/l				14 days							
2-Butanone, (ug/l)	624	--	ug/l				14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l				14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
Xylenes, Total, (ug/l)	624	--	ug/l				14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l				14 days							
Styrene, Total, (ug/l)	624	--	ug/l				14 days							
Acrolein, Total, (ug/l)	624	--	ug/l				14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l				14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	--	ug/l				14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction		--					7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l				40 days							
Acenaphthylene, Total, (ug/l)	625	--	ug/l				40 days							
Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzidine, Total, (ug/l)	625	--	ug/l				40 days							
Benzoic Acid, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Benzyl Alcohol, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Chloronapthalene, Total, (ug/l)	625	--	ug/l				40 days							
2-Chlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Chrysene, Total, (ug/l)	625	--	ug/l				40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
1,2- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Diethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dimethylphenol, Total, (ug/l)	625	--	ug/l				40 days							
Dimethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Fluorene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobutadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachloroethane, Total, (ug/l)	625	--	ug/l				40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Isophorone, Total, (ug/l)	625	--	ug/l				40 days							
Naphthalene, Total, (ug/l)	625	--	ug/l				40 days							
Nitrobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	--	ug/l				40 days							
Pentachlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Phenanthrene, Total, (ug/l)	625	--	ug/l				40 days							
Phenol, Total, (ug/l)	625	--	ug/l				40 days							
Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		NM												
Effluent Temperature (deg. C)		26.5												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		734												
pH, Effluent (standard units)		7.9												
pH, Lab (standard units)	150.1	7.7	std units			within limit	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		253												
Specific Conductance, LAB (us/cm)		299												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	5.4	mg/l			within limit	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			within limit	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		within limit	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	67	mg/l	1		within limit	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	13	mg/l			within limit	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.010	mg/l			within limit	14 days							
Fecal Coliform (CFU/100mL)	9221D	--	CFU/100ml	2			6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	--	CFU/100ml	2			6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	126	mg/l	10		within limit	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	920	mg/l	10		within limit	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	2.7	mg/l	0.05		within limit				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	--	mg/l				28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	2.8	mg/l			within limit								
Nitrogen Nitrate Total (mg/l as N)	300.0	2.59	mg/l			within limit	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.11	mg/l			within limit	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	1.1	mg/l			within limit	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.91	mg/l	0.05		within limit	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	<0.020	mg/l			within limit	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.21	mg/l	0.05		within limit	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	13	mg/l			within limit	28 days							
Hexavalent Chromium Total (mg/l)	3500	--	mg/l				24 hours							
Phenols Total Recoverable (ug/l)	420.1	3	ug/l			within limit	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	9	mg/l	0.2	R	within limit	28 days	<30	n/a	<50	n/a			Incorrect collection method
Organic Carbon, Total (mg/l)	5310C	79	mg/l			within limit	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		173												
Bicarbonate Dissolved, Field (mg/l as HCo3)		33												
Carbonate Water Field (mg/l as Co3)		0												
Carbonate Water Dissolved, Field, (mg/l as Co3)		0												
Alkalinity Water Field Total (mg/l as CaCo3)		142												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		27												
Alkalinity LAB (mg/l as CaCo3)	2320B	156	mg/l			within limit	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	--	mg/l	1			6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	--	ug/l				6 months							
Antimony Dissolved (ug/l as Sb)	200.9	--	ug/l				6 months							
Arsenic Total (ug/l as As)	3113B	18	ug/l			within limit	6 months							
Arsenic Dissolved (ug/l as As)	200.9	--	ug/l				6 months							

R - Rejected Data

11/20/1998, 7:45 AM

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Barium Dissolved (ug/l as Ba)		--												
Beryllium Total Recoverable (ug/l as Be)	200.7	--	ug/l			within limit	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	--	ug/l				6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	3	ug/l	0.2		within limit	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	--	ug/l				6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	33	ug/l	1		within limit	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	--	ug/l				6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	180	ug/l	1		within limit	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	--	ug/l				6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	310	ug/l	1		within limit	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	--	ug/l				6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.10	ug/l			within limit	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	--	ug/l				6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	60	ug/l	2		within limit	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	--	ug/l				6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<1	ug/l			within limit	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	--	ug/l				6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<1	ug/l			within limit	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	--	ug/l				6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	--	ug/l				6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	--	ug/l				6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	710	ug/l	1		within limit	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	--	ug/l				6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction		--					7 days							
Aldrin, Total, (ug/l)	608	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
BHC - ALPHA, (ug/l)	608	--	ug/l				40 days							
BHC - Gamma (Lindane), (ug/l)	608	--	ug/l				40 days							
BHC - DELTA, (ug/l)	608	--	ug/l				40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	--	ug/l				40 days							
Chlordane, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDD, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDE, Total, (ug/l)	608	--	ug/l				40 days							
P, P' DDT, Total, (ug/l)	608	--	ug/l				40 days							
Dieldrin, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	--	ug/l				40 days							
Endrin Aldehyde, Total, (ug/l)	608	--	ug/l				40 days							
Endrin, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor Epoxide, Total, (ug/l)	608	--	ug/l				40 days							
Toxaphene, Total, (ug/l)	608	--	ug/l				40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	--	ug/l				40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l				14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l				14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l				14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l				14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l				14 days							
Benzene, Total, (ug/l)	624	--	ug/l				14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l				14 days							
Bromoform, Total, (ug/l)	624	--	ug/l				14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l				14 days							
Chloroethane, (ug/l)	624	--	ug/l				14 days							
Chloroform, Total, (ug/l)	624	--	ug/l				14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l				14 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	--	ug/l				14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l				14 days							
Vinyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l				14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	--	ug/l				14 days							
2-Butanone, (ug/l)	624	--	ug/l				14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l				14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
Xylenes, Total, (ug/l)	624	--	ug/l				14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l				14 days							
Styrene, Total, (ug/l)	624	--	ug/l				14 days							
Acrolein, Total, (ug/l)	624	--	ug/l				14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l				14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	--	ug/l				14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction		--					7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l				40 days							
Acenaphthylene, Total, (ug/l)	625	--	ug/l				40 days							
Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzidine, Total, (ug/l)	625	--	ug/l				40 days							
Benzoic Acid, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Benzyl Alcohol, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Chloronapthalene, Total, (ug/l)	625	--	ug/l				40 days							
2-Chlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Chrysene, Total, (ug/l)	625	--	ug/l				40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							

Phoenix SR-30 July 7, 1998	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
1,2- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Diethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dimethylphenol, Total, (ug/l)	625	--	ug/l				40 days							
Dimethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Fluorene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobutadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachloroethane, Total, (ug/l)	625	--	ug/l				40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Isophorone, Total, (ug/l)	625	--	ug/l				40 days							
Naphthalene, Total, (ug/l)	625	--	ug/l				40 days							
Nitrobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	--	ug/l				40 days							
Pentachlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Phenanthrene, Total, (ug/l)	625	--	ug/l				40 days							
Phenol, Total, (ug/l)	625	--	ug/l				40 days							
Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		NM												
Effluent Temperature (deg. C)		27												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		735												
pH, Effluent (standard units)		8												
pH, Lab (standard units)	150.1	7.7	std units			within limit	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		368												
Specific Conductance, LAB (us/cm)		207												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	5.4	mg/l			within limit	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			within limit	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		within limit	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	55	mg/l	1		within limit	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	14	mg/l			within limit	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.010	mg/l			within limit	14 days							
Fecal Coliform (CFU/100mL)	9221D	--	CFU/100ml	2			6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	--	CFU/100ml	2			6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	159	mg/l	10		within limit	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	1240	mg/l	10		within limit	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	2.5	mg/l	0.05		within limit				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	--	mg/l				28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	7	mg/l			within limit								
Nitrogen Nitrate Total (mg/l as N)	300.0	2.26	mg/l			within limit	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.24	mg/l			within limit	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	0.88	mg/l			within limit	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.66	mg/l	0.05		within limit	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.12	mg/l			within limit	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.13	mg/l	0.05		within limit	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	11	mg/l			within limit	28 days							
Hexavalent Chromium Total (mg/l)	3500	--	mg/l				24 hours							
Phenols Total Recoverable (ug/l)	420.1	<1	ug/l			within limit	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	7	mg/l	0.2	R	within limit	28 days	<30	n/a	<50	n/a			Incorrect collection method
Organic Carbon, Total (mg/l)	5310C	79	mg/l			within limit	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		187												
Bicarbonate Dissolved, Field (mg/l as HCo3)		54												
Carbonate Water Field (mg/l as Co3)		0												
Carbonate Water Dissolved, Field, (mg/l as Co3)		0												
Alkalinity Water Field Total (mg/l as CaCo3)		153												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		44												
Alkalinity LAB (mg/l as CaCo3)	2320B	203	mg/l			within limit	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	--	mg/l	1			6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	--	ug/l				6 months							
Antimony Dissolved (ug/l as Sb)	200.9	--	ug/l				6 months							
Arsenic Total (ug/l as As)	3113B	25	ug/l			within limit	6 months							
Arsenic Dissolved (ug/l as As)	200.9	--	ug/l				6 months							

R - Rejected Data

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Barium Dissolved (ug/l as Ba)		--												
Beryllium Total Recoverable (ug/l as Be)	200.7	<10	ug/l			within limit	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	--	ug/l				6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	4	ug/l	0.2		within limit	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	--	ug/l				6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	44	ug/l	1		within limit	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	--	ug/l				6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	200	ug/l	1		within limit	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	--	ug/l				6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	400	ug/l	1		within limit	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	--	ug/l				6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.10	ug/l			within limit	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	--	ug/l				6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	81	ug/l	2		within limit	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	--	ug/l				6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<4	ug/l			within limit	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	--	ug/l				6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<1	ug/l			within limit	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	--	ug/l				6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	--	ug/l				6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	--	ug/l				6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	1200	ug/l	1		within limit	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	--	ug/l				6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction		--					7 days							
Aldrin, Total, (ug/l)	608	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
BHC - ALPHA, (ug/l)	608	--	ug/l				40 days							
BHC - Gamma (Lindane), (ug/l)	608	--	ug/l				40 days							
BHC - DELTA, (ug/l)	608	--	ug/l				40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	--	ug/l				40 days							
Chlordane, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDD, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDE, Total, (ug/l)	608	--	ug/l				40 days							
P, P' DDT, Total, (ug/l)	608	--	ug/l				40 days							
Dieldrin, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	--	ug/l				40 days							
Endrin Aldehyde, Total, (ug/l)	608	--	ug/l				40 days							
Endrin, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor Epoxide, Total, (ug/l)	608	--	ug/l				40 days							
Toxaphene, Total, (ug/l)	608	--	ug/l				40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	--	ug/l				40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l				14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l				14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l				14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l				14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l				14 days							
Benzene, Total, (ug/l)	624	--	ug/l				14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l				14 days							
Bromoform, Total, (ug/l)	624	--	ug/l				14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l				14 days							
Chloroethane, (ug/l)	624	--	ug/l				14 days							
Chloroform, Total, (ug/l)	624	--	ug/l				14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l				14 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	--	ug/l				14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l				14 days							
Vinyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l				14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	--	ug/l				14 days							
2-Butanone, (ug/l)	624	--	ug/l				14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l				14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
Xylenes, Total, (ug/l)	624	--	ug/l				14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l				14 days							
Styrene, Total, (ug/l)	624	--	ug/l				14 days							
Acrolein, Total, (ug/l)	624	--	ug/l				14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l				14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	--	ug/l				14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction		--					7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l				40 days							
Acenaphthylene, Total, (ug/l)	625	--	ug/l				40 days							
Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzidine, Total, (ug/l)	625	--	ug/l				40 days							
Benzoic Acid, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Benzyl Alcohol, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Chloronapthalene, Total, (ug/l)	625	--	ug/l				40 days							
2-Chlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Chrysene, Total, (ug/l)	625	--	ug/l				40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
1,2- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Diethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dimethylphenol, Total, (ug/l)	625	--	ug/l				40 days							
Dimethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Fluorene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobutadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachloroethane, Total, (ug/l)	625	--	ug/l				40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Isophorone, Total, (ug/l)	625	--	ug/l				40 days							
Naphthalene, Total, (ug/l)	625	--	ug/l				40 days							
Nitrobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	--	ug/l				40 days							
Pentachlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Phenanthrene, Total, (ug/l)	625	--	ug/l				40 days							
Phenol, Total, (ug/l)	625	--	ug/l				40 days							
Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		4												
Effluent Temperature (deg. C)		NM												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)		NM												
pH, Lab (standard units)	150.1	8	std units		R	07/22/1998	Immediate			<15	n/a			Invalid measurement - take in field
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	8.2	mg/l			07/22/1998	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm				20 days							
BOD5 (mg/l)	405.1	9	mg/l	1		07/22/1998	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	232	mg/l	1		08/09/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	11	mg/l			07/23/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			08/05/1998	14 days							
Fecal Coliform (CFU/100mL)	9221D	24,000	CFU/100ml	2		07/22/1998	6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	16,000	CFU/100ml	2		07/22/1998	6 hours			<30	n/a			
Total Dissolved Solids	2540C	89	mg/l	10		07/27/1998	7 days			<15	n/a			
Total Suspended Solids	160.2	190	mg/l	10		07/24/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	1.3	mg/l	0.05						<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	2	mg/l			07/24/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	2.58	mg/l											
Nitrogen Nitrate Total (mg/l as N)	300.0	1.3	mg/l			07/22/1998	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	<0.1	mg/l			07/22/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	2.58	mg/l			07/24/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	<0.5	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.26	mg/l	0.05		07/27/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.3	mg/l			08/04/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.16	mg/l	0.05		07/22/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	8	mg/l			07/22/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.01	mg/l			07/22/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	<5	ug/l			08/03/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	<5.0	mg/l	0.2		07/29/1998	28 days	<30	n/a	<50	n/a			
Organic Carbon, Total (mg/l)	5310C	13	mg/l			07/24/1998	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--												
Bicarbonate Dissolved, Field (mg/l as HCo3)		--												
Carbonate Water Field (mg/l as Co3)		--												
Carbonate Water Dissolved, Field, (mg/l as Co3)		--												
Alkalinity Water Field Total (mg/l as CaCo3)		--												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--												
Alkalinity LAB (mg/l as CaCo3)	2320B	34	mg/l			07/27/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	68	mg/l	1		08/12/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			08/14/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			08/14/1998	6 months							
Arsenic Total (ug/l as As)	3113B	8	ug/l			08/06/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			08/18/1998	6 months							
Barium Dissolved (ug/l as Ba)		--												

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Beryllium Total Recoverable (ug/l as Be)	200.7	<2	ug/l			08/06/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			08/11/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	1.1	ug/l	0.2		08/05/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	<1	ug/l			08/05/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	15	ug/l	1		08/07/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	3.4	ug/l			08/07/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	38	ug/l	1		08/06/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	23	ug/l			08/11/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	26	ug/l	1		08/12/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	6	ug/l			08/11/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			07/29/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	0.2	ug/l			07/29/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	22	ug/l	2		08/06/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	<10	ug/l			08/06/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			07/31/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			08/17/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			08/06/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			08/11/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			08/05/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			08/05/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	200	ug/l	1		08/06/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	80	ug/l			08/11/1998	6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction						07/27/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							

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BHC - DELTA, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			07/31/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			07/31/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
Methoxychlor, Total, (ug/l)		<1.0												
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			07/31/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Trichloroethene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,1- Dichloroethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,1- Dichloroethene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,2- Dichloroethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
1,2- Dichloropropane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
cis-1,3-Dichloropropene, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
trans-1,2- Dichloroethene, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
trans-1,3- Dichloropropene, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Benzene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Bromodichloromethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Bromoform, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Carbon Tetrachloride, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Chlorobenzene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Chloroethane, (ug/l)	624	<10	ug/l			08/01/1998	14 days							
Chloroform, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Ethyl-Benzene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Trichlorofluoromethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Vinyl Chloride, Total, (ug/l)	624	<10	ug/l			08/01/1998	14 days							
Chlorodibromomethane, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	<50	ug/l			08/01/1998	14 days							
2-Butanone, (ug/l)	624	<20	ug/l			08/01/1998	14 days							
Carbon Disulfide, Total, (ug/l)	624	<20	ug/l			08/01/1998	14 days							
1,2 Dichloroethene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Xylenes, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
2-Hexanone, Total, (ug/l)	624	<20	ug/l			08/01/1998	14 days							
Styrene, Total, (ug/l)	624	<4	ug/l			08/01/1998	14 days							
Acrolein, Total, (ug/l)	624	<100	ug/l			08/01/1998	14 days							
Acrylonitirile, Total, (ug/l)	624	<20	ug/l			08/01/1998	14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	<10	ug/l			08/01/1998	14 days							
Methyl Chloride, Total, (ug/l)	624	<10	ug/l			08/01/1998	14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction	625					07/28/1998	7 days							
Acenaphthene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Anthracene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzidine, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	23.1	ug/l			08/03/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Chrysene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							

Phoenix SR45

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
2,4- Dimethylphenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Fluorene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Isophorone, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Naphthalene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Phenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
Pyrene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<5.0	ug/l			08/03/1998	40 days							
N-Nitrosodimethylamine, Total, (ug/l)		--												
1,2- Diphenylhydrazine, Total, (ug/l)		--												
Dichlorodifluoromethane, Total, (ug/l)		--												
Parachloro-Meta-Cresol, Total, (ug/l)		--												

Phoenix ACDC and 43rd Ave

August 7, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		NM												
Effluent Temperature (deg. C)		27.5												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		728												
pH, Effluent (standard units)		6.5												
pH, Lab (standard units)	150.1	6	std units			within limit	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		158												
Specific Conductance, LAB (us/cm)		405												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	6.8	mg/l			within limit	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			within limit	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		within limit	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	410	mg/l	1		within limit	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	46	mg/l			within limit	28 days							
Cyanide Total (mg/l as Cn)	4500	0.014	mg/l			within limit	14 days							
Fecal Coliform (CFU/100mL)	9221D	--	CFU/100ml	2			6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	--	CFU/100ml	2			6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	423	mg/l	10		within limit	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	328	mg/l	10		within limit	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	3	mg/l	0.05		within limit				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	--	mg/l				28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	12	mg/l			within limit								
Nitrogen Nitrate Total (mg/l as N)	300.0	2.96	mg/l			within limit	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.037	mg/l			within limit	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	3.8	mg/l			within limit	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.92	mg/l	0.05		within limit	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.79	mg/l			within limit	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.59	mg/l	0.05		within limit	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	42	mg/l			within limit	28 days							
Hexavalent Chromium Total (mg/l)	3500	--	mg/l				24 hours							
Phenols Total Recoverable (ug/l)	420.1	16	ug/l			within limit	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	15	mg/l	0.2	R	within limit	28 days	<30	n/a	<50	n/a			Incorrect collection method
Organic Carbon, Total (mg/l)	5310C	190	mg/l			within limit	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		49												
Bicarbonate Dissolved, Field (mg/l as HCo3)		13												
Carbonate Water Field (mg/l as Co3)		0												
Carbonate Water Dissolved, Field, (mg/l as Co3)		0												
Alkalinity Water Field Total (mg/l as CaCo3)		40												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		11												
Alkalinity LAB (mg/l as CaCo3)	2320B	57	mg/l			within limit	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	--	mg/l	1			6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	--	ug/l				6 months							
Antimony Dissolved (ug/l as Sb)	200.9	--	ug/l				6 months							
Arsenic Total (ug/l as As)	3113B	8	ug/l			within limit	6 months							
Arsenic Dissolved (ug/l as As)	200.9	--	ug/l				6 months							

R - Rejected Data

Phoenix ACDC and 43rd Ave

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Barium Dissolved (ug/l as Ba)		--												
Beryllium Total Recoverable (ug/l as Be)	200.7	<10	ug/l			within limit	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	--	ug/l				6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	2	ug/l	0.2		within limit	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	--	ug/l				6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	12	ug/l	1		within limit	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	--	ug/l				6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	63	ug/l	1		within limit	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	--	ug/l				6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	23	ug/l	1		within limit	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	--	ug/l				6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.10	ug/l			within limit	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	--	ug/l				6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	33	ug/l	2		within limit	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	--	ug/l				6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<1	ug/l			within limit	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	--	ug/l				6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<1	ug/l			within limit	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	--	ug/l				6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	--	ug/l				6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	--	ug/l				6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	610	ug/l	1		within limit	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	--	ug/l				6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction		--					7 days							
Aldrin, Total, (ug/l)	608	--	ug/l				40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
BHC - ALPHA, (ug/l)	608	--	ug/l				40 days							
BHC - Gamma (Lindane), (ug/l)	608	--	ug/l				40 days							
BHC - DELTA, (ug/l)	608	--	ug/l				40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	--	ug/l				40 days							
Chlordane, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDD, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDE, Total, (ug/l)	608	--	ug/l				40 days							
P, P' DDT, Total, (ug/l)	608	--	ug/l				40 days							
Dieldrin, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	--	ug/l				40 days							
Endrin Aldehyde, Total, (ug/l)	608	--	ug/l				40 days							
Endrin, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor Epoxide, Total, (ug/l)	608	--	ug/l				40 days							
Toxaphene, Total, (ug/l)	608	--	ug/l				40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	--	ug/l				40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l				14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l				14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l				14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l				14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l				14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l				14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l				14 days							
Benzene, Total, (ug/l)	624	--	ug/l				14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l				14 days							
Bromoform, Total, (ug/l)	624	--	ug/l				14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l				14 days							
Chloroethane, (ug/l)	624	--	ug/l				14 days							
Chloroform, Total, (ug/l)	624	--	ug/l				14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l				14 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	--	ug/l				14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l				14 days							
Vinyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l				14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	--	ug/l				14 days							
2-Butanone, (ug/l)	624	--	ug/l				14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l				14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l				14 days							
Xylenes, Total, (ug/l)	624	--	ug/l				14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l				14 days							
Styrene, Total, (ug/l)	624	--	ug/l				14 days							
Acrolein, Total, (ug/l)	624	--	ug/l				14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l				14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	--	ug/l				14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction		--					7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l				40 days							
Acenaphthylene, Total, (ug/l)	625	--	ug/l				40 days							
Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzidine, Total, (ug/l)	625	--	ug/l				40 days							
Benzoic Acid, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Benzyl Alcohol, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Chloronapthalene, Total, (ug/l)	625	--	ug/l				40 days							
2-Chlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Chrysene, Total, (ug/l)	625	--	ug/l				40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							

Phoenix ACDC and 43rd Ave

August 7, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
1,2- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Diethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dimethylphenol, Total, (ug/l)	625	--	ug/l				40 days							
Dimethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Fluorene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobutadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachloroethane, Total, (ug/l)	625	--	ug/l				40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Isophorone, Total, (ug/l)	625	--	ug/l				40 days							
Naphthalene, Total, (ug/l)	625	--	ug/l				40 days							
Nitrobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	--	ug/l				40 days							
Pentachlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Phenanthrene, Total, (ug/l)	625	--	ug/l				40 days							
Phenol, Total, (ug/l)	625	--	ug/l				40 days							
Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							

Phoenix SR45

August 16, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		4												
Effluent Temperature (deg. C)		NM												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)		NM												
pH, Lab (standard units)	150.1	7.4	std units		R	08/17/1998	Immediate			<15	n/a			Invalid measurement - take in field
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	9.4	mg/l			08/16/1998	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm				20 days							
BOD5 (mg/l)	405.1	72	mg/l	1		08/17/1998	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	175	mg/l	1		08/25/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	28	mg/l			08/17/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	--	mg/l				14 days							
Fecal Coliform (CFU/100mL)	9221D	>160,000	CFU/100ml	2	R	08/16/1998	6 hours			<30	n/a			incorrect collection procedure
Fecal Streptococci (CFU/100mL)	9230B	>160,000	CFU/100ml	2	R	08/16/1998	6 hours			<30	n/a			incorrect collection procedure
Solids Residue at 180 Deg. C (TDS) (mg/l)	2540C	148	mg/l	10		08/21/1998	7 days			<15	n/a			
Residue, Total at 105 Deg. C (TSS) (mg/l)	160.2	163	mg/l	10		08/17/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	1.9	mg/l	0.05						<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	0.7	mg/l			08/19/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	0.83	mg/l											
Nitrogen Nitrate Total (mg/l as N)	300.0	1.9	mg/l			08/17/1998	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	<0.1	mg/l			08/17/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	0.83	mg/l			08/21/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	<0.5	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.6	mg/l	0.05		08/28/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.6	mg/l			08/28/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	<0.05	mg/l	0.05		08/17/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	15	mg/l			08/17/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			08/17/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	--	ug/l				28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	<5.0	mg/l	0.2	R	08/24/1998	28 days	<30	n/a	<50	n/a			incorrect collection procedure
Organic Carbon, Total (mg/l)	5310C	--	mg/l				28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--												
Bicarbonate Dissolved, Field (mg/l as HCo3)		--												
Carbonate Water Field (mg/l as Co3)		--												
Carbonate Water Dissolved, Field, (mg/l as Co3)		--												
Alkalinity Water Field Total (mg/l as CaCo3)		--												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--												
Alkalinity LAB (mg/l as CaCo3)	2320B	34	mg/l			08/20/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	76	mg/l	1		08/31/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			08/20/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			08/19/1998	6 months							
Arsenic Total (ug/l as As)	3113B	<5	ug/l			08/31/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			08/18/1998	6 months							
Barium Dissolved (ug/l as Ba)		--												

R - Rejected data

Phoenix SR45

August 16, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Beryllium Total Recoverable (ug/l as Be)	200.7	<2	ug/l			08/31/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			08/31/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	0.28	ug/l	0.2		08/26/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	0.36	ug/l			08/26/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	3.7	ug/l	1		08/27/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	3.6	ug/l			08/27/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	42	ug/l	1		09/08/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	<15	ug/l			08/31/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	18	ug/l	1		08/20/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	<5	ug/l			09/02/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			08/26/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			08/26/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	2.8	ug/l	2		08/26/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	4.6	ug/l			08/26/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			08/28/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			08/28/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			09/01/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			08/31/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			08/26/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	1	ug/l			08/26/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	230	ug/l	1		08/31/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	20	ug/l			09/01/1998	6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
Aldrin, Total, (ug/l)	608	--	ug/l				40 days							
BHC - ALPHA, (ug/l)	608	--	ug/l				40 days							
BHC - Gamma (Lindane), (ug/l)	608	--	ug/l				40 days							
BHC - DELTA, (ug/l)	608	--	ug/l				40 days							

R - Rejected data

Phoenix SR45

August 16, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Aroclor 1016, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	--	ug/l				40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	--	ug/l				40 days							
Chlordane, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDD, Total, (ug/l)	608	--	ug/l				40 days							
P,P' DDE, Total, (ug/l)	608	--	ug/l				40 days							
P, P' DDT, Total, (ug/l)	608	--	ug/l				40 days							
Dieldrin, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	--	ug/l				40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	--	ug/l				40 days							
Endrin Aldehyde, Total, (ug/l)	608	--	ug/l				40 days							
Endrin, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor, Total, (ug/l)	608	--	ug/l				40 days							
Heptachlor Epoxide, Total, (ug/l)	608	--	ug/l				40 days							
Toxaphene, Total, (ug/l)	608	--	ug/l				40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	--	ug/l				40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												incorrect collection procedure
Tetrachloroethene, PCE, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,1,2- Trichloroethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Trichloroethene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,1- Dichloroethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,1- Dichloroethene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,2- Dichloroethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,2- Dichloropropane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
2- Chloroethylvinyl Ether, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
cis-1,3-Dichloropropene, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
trans-1,2- Dichloroethene, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
trans-1,3- Dichloropropene, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Benzene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Bromodichloromethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Bromoform, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Carbon Tetrachloride, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Chlorobenzene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Chloroethane, (ug/l)	624	<100	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Chloroform, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Ethyl-Benzene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Trichlorofluoromethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Vinyl Chloride, Total, (ug/l)	624	<100	ug/l		R	08/20/1998	14 days							incorrect collection procedure

R - Rejected data

Phoenix SR45

August 16, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Chlorodibromomethane, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	<500	ug/l		R	08/20/1998	14 days							incorrect collection procedure
2-Butanone, (ug/l)	624	<200	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Carbon Disulfide, Total, (ug/l)	624	<200	ug/l		R	08/20/1998	14 days							incorrect collection procedure
1,2 Dichloroethene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Xylenes, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
2-Hexanone, Total, (ug/l)	624	<200	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Styrene, Total, (ug/l)	624	<40	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Acrolein, Total, (ug/l)	624	<1000	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Acrylonitirile, Total, (ug/l)	624	<200	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	<100	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Methyl Chloride, Total, (ug/l)	624	<100	ug/l		R	08/20/1998	14 days							incorrect collection procedure
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
Acenaphthene, Total, (ug/l)	625	--	ug/l				40 days							
Acenaphthylene, Total, (ug/l)	625	--	ug/l				40 days							
Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzidine, Total, (ug/l)	625	--	ug/l				40 days							
Benzoic Acid, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	--	ug/l				40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Benzyl Alcohol, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	--	ug/l				40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2-Chloronapthalene, Total, (ug/l)	625	--	ug/l				40 days							
2-Chlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	--	ug/l				40 days							
Chrysene, Total, (ug/l)	625	--	ug/l				40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Diethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dimethylphenol, Total, (ug/l)	625	--	ug/l				40 days							
Dimethyl Phthalate, Total, (ug/l)	625	--	ug/l				40 days							

R - Rejected data

Phoenix SR45

August 16, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	--	ug/l				40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	--	ug/l				40 days							
Fluoranthene, Total, (ug/l)	625	--	ug/l				40 days							
Fluorene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorobutadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	--	ug/l				40 days							
Hexachloroethane, Total, (ug/l)	625	--	ug/l				40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
Isophorone, Total, (ug/l)	625	--	ug/l				40 days							
Naphthalene, Total, (ug/l)	625	--	ug/l				40 days							
Nitrobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
4-Nitrophenol, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	--	ug/l				40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	--	ug/l				40 days							
Pentachlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
Phenanthrene, Total, (ug/l)	625	--	ug/l				40 days							
Phenol, Total, (ug/l)	625	--	ug/l				40 days							
Pyrene, Total, (ug/l)	625	--	ug/l				40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	--	ug/l				40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	--	ug/l				40 days							

R - Rejected data

Phoenix SR49

August 17, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		4												
Effluent Temperature (deg. C)		NM												
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)		8.4				08/17/1998								
pH, Lab (standard units)	150.1	7.4	std units		R	08/18/1998	Immediate			<15	n/a			Invalid Measurement - Field only
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	9.1	mg/l			08/18/1998	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm				20 days							
BOD5 (mg/l)	405.1	53	mg/l	1		08/19/1998	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	58	mg/l	1		08/25/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	23	mg/l			08/18/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			08/24/1998	14 days							
Fecal Coliform (CFU/100mL)	9221D	>160,000	CFU/100ml	2	R	08/18/1998	6 hours			<30	n/a			Incorrect Collection Procedure
Fecal Streptococci (CFU/100mL)	9230B	>160,000	CFU/100ml	2	R	08/18/1998	6 hours			<30	n/a			Incorrect Collection Procedure
Total Dissolved Solids (mg/l)	2540C	167	mg/l	10		08/21/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	<1	mg/l	10		08/19/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	<0.1	mg/l	0.05						<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	<0.5	mg/l			08/19/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	0.44	mg/l											
Nitrogen Nitrate Total (mg/l as N)	300.0	<0.1	mg/l			08/18/1998	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	<0.1	mg/l			08/18/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	0.44	mg/l			08/20/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	<0.5	mg/l											
Phosphorous Total (mg/l as P)	365.3	0.3	mg/l	0.05		08/28/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.3	mg/l			08/28/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.1	mg/l	0.05		08/18/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	9	mg/l			08/18/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			08/18/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	<5.0	ug/l			08/31/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	<5.0	mg/l	0.2	R	08/24/1998	28 days	<30	n/a	<50	n/a			Incorrect Collection Procedure
Organic Carbon, Total (mg/l)	5310C	--	mg/l				28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--												
Bicarbonate Dissolved, Field (mg/l as HCo3)		--												
Carbonate Water Field (mg/l as Co3)		--												
Carbonate Water Dissolved, Field, (mg/l as Co3)		--												
Alkalinity Water Field Total (mg/l as CaCo3)		--												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--												
Alkalinity LAB (mg/l as CaCo3)	2320B	90	mg/l			08/20/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	<7	mg/l	1		08/31/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			08/20/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			08/20/1998	6 months							
Arsenic Total (ug/l as As)	3113B	<5	ug/l			08/31/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			08/18/1998	6 months							
Barium Dissolved (ug/l as Ba)		--												

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Beryllium Total Recoverable (ug/l as Be)	200.7	<2	ug/l			08/31/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			08/31/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	<0.2	ug/l	0.2		08/26/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	<0.2	ug/l			08/26/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	<1	ug/l	1		08/27/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	<1	ug/l			08/27/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	<5	ug/l	1		09/08/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	<15	ug/l			08/31/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	<5	ug/l	1		08/20/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	<5	ug/l			09/02/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			08/19/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			08/26/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	<1	ug/l	2		08/26/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	2.1	ug/l			08/26/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			08/28/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			08/28/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			08/25/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			08/31/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			08/26/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			08/26/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	<30	ug/l	1		08/25/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	<20	ug/l			09/01/1998	6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction						08/21/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
BHC - DELTA, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			08/25/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			08/25/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			08/25/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			08/25/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,1,1- Trichloroethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,1,2- Trichloroethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Trichloroethene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,1- Dichloroethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,1- Dichloroethene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,2- Dichloroethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,2- Dichloropropane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
2- Chloroethylvinyl Ether, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
cis-1,3-Dichloropropene, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
trans-1,2- Dichloroethene, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
trans-1,3- Dichloropropene, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Benzene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Bromodichloromethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Bromoform, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Carbon Tetrachloride, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Chlorobenzene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Chloroethane, (ug/l)	624	<20	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Chloroform, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Ethyl-Benzene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Trichlorofluoromethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure

R - Rejected Data

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Vinyl Chloride, Total, (ug/l)	624	<20	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Chlorodibromomethane, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	<100	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
2-Butanone, (ug/l)	624	<40	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Carbon Disulfide, Total, (ug/l)	624	<40	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
1,2 Dichloroethene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Xylenes, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
2-Hexanone, Total, (ug/l)	624	<40	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Styrene, Total, (ug/l)	624	<8	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Acrolein, Total, (ug/l)	624	<200	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Acrylonitirile, Total, (ug/l)	624	<40	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	<20	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Methyl Chloride, Total, (ug/l)	624	<20	ug/l		R	08/28/1998	14 days							Incorrect Collection Procedure
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction						08/20/1998	7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l			08/26/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Anthracene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzidine, Total, (ug/l)	625	<20	ug/l			08/26/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<50	ug/l			08/26/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Chrysene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							

Phoenix SR49 August 17, 1998	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
2,4- Dimethylphenol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<20	ug/l			08/26/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Fluorene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Isophorone, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Naphthalene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<10	ug/l			08/26/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Phenol, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
Pyrene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<5	ug/l			08/26/1998	40 days							

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Sample Temperature (deg. C)		4				09/22/1998								
Effluent Temperature (deg. C)		26.4				09/22/1998								
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)		7.8				09/22/1998								Measured in field
pH, Lab (standard units)	150.1	7	std units		R	09/22/1998	Immediate			<15	n/a			pH measured in Lab is invalid
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	6.42	mg/l			09/22/1998	Immediate							Measured in field
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm				20 days							
BOD5 (mg/l)	405.1	26	mg/l	1		09/23/1998	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	208	mg/l	1		10/01/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	5	mg/l			09/23/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			10/02/1998	14 days							
Fecal Coliform (CFU/100mL)	9221D	2,400	CFU/100ml	2		09/22/1998	6 hours			<30	n/a			
Fecal Streptococci (CFU/100mL)	9230B	90,000	CFU/100ml	2		09/22/1998	6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	144	mg/l	10		09/23/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	181	mg/l	10		09/23/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	0.63	mg/l	0.05						<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	0.9	mg/l			09/25/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	0.9	mg/l											
Nitrogen Nitrate Total (mg/l as N)	300.0	0.63	mg/l			09/28/1998	28 days							
Nitrogen Nitrite Total (mg/l as N)	300.0	<0.1	mg/l			09/24/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	0.29	mg/l			09/23/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	0.61	mg/l											
Phosphorous Total (mg/l as P)	365.3	4.86	mg/l	0.05		10/05/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.37	mg/l			10/06/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	<0.05	mg/l	0.05		09/23/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	13	mg/l			09/25/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			09/23/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	<5.0	ug/l			10/08/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	<5.0	mg/l	0.2		09/24/1998	28 days	<30	n/a	<50	n/a			
Organic Carbon, Total (mg/l)	5310C	33	mg/l			09/28/1998	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--												
Bicarbonate Dissolved, Field (mg/l as HCo3)		--												
Carbonate Water Field (mg/l as Co3)		--												
Carbonate Water Dissolved, Field, (mg/l as Co3)		--												
Alkalinity Water Field Total (mg/l as CaCo3)		--												
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--												
Alkalinity LAB (mg/l as CaCo3)	2320B	--	mg/l			09/24/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	66	mg/l	1		09/28/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			10/02/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			10/02/1998	6 months							
Arsenic Total (ug/l as As)	3113B	<5	ug/l			09/28/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			09/27/1998	6 months							
Barium Dissolved (ug/l as Ba)		--												

R - Rejected Data

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	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
Beryllium Total Recoverable (ug/l as Be)	200.7	<2	ug/l			09/28/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			09/24/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	0.58	ug/l	0.2		10/06/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	<0.5	ug/l			10/01/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	6.1	ug/l	1		10/02/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	1.9	ug/l			10/02/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	29	ug/l	1		09/30/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	18	ug/l			09/23/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	16	ug/l	1		09/30/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	14	ug/l			09/23/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--												
Magnesium, Dissolved, (mg/l as Mg)		--												
Manganese, Dissolved, (ug/l as Mn)		--												
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			09/24/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			09/24/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--												
Nickel, Total Recoverable, (ug/l as Ni)	249.2	10	ug/l	2		10/02/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	9.9	ug/l			10/02/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			10/05/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			09/29/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			09/28/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			09/24/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--												
Strontium, Dissolved, (ug/l as Sr)		--												
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			09/30/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			09/30/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--												
Zinc, Total Recoverable, (ug/l as Zn)	200.7	220	ug/l	1		09/30/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	190	ug/l			09/23/1998	6 months							
Diazinon, Total, (ug/l)		--												
Ethion, Total, (ug/l)		--												
Malathion, Total, (ug/l)		--												
Methyl Parathion, Total, (ug/l)		--												
Parathion, Total, (ug/l)		--												
Trithion, Total, (ug/l)		--												
Di-syston, Total, (ug/l)		--												
Phorate, Total, (ug/l)		--												
Chlorpyrifos, Total, (ug/l)		--												
DEF, Total, (ug/l)		--												
Fonofos(Dy-fonate), WWT, (ug/l)		--												
EPA Method 608 Extraction						09/29/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							

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BHC - DELTA, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			10/07/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			10/07/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			10/07/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
Methoxychlor, Total, (ug/l)	608	--	ug/l											
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			10/07/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)		--												
Tetrachloroethene, PCE, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Trichloroethene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,1- Dichloroethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,1- Dichloroethene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,2- Dichloroethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
1,2- Dichloropropane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
cis-1,3-Dichloropropene, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
trans-1,2- Dichloroethene, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
trans-1,3- Dichloropropene, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Benzene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Bromodichloromethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Bromoform, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Carbon Tetrachloride, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Chlorobenzene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Chloroethane, (ug/l)	624	<50	ug/l			09/28/1998	14 days							
Chloroform, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Ethyl-Benzene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Methylene Chloride, Total, (ug/l)		--	ug/l											
Toluene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Trichlorofluoromethane, Total, (ug/l)	624	<50	ug/l			09/28/1998	14 days							

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Vinyl Chloride, Total, (ug/l)	624	<50	ug/l			09/28/1998	14 days							
Chlorodibromomethane, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)		--												
Acetone, Total, (ug/l)	624	<250	ug/l			09/28/1998	14 days							
2-Butanone, (ug/l)	624	<100	ug/l			09/28/1998	14 days							
Carbon Disulfide, Total, (ug/l)	624	<100	ug/l			09/28/1998	14 days							
1,2 Dichloroethene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Xylenes, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
2-Hexanone, Total, (ug/l)	624	<100	ug/l			09/28/1998	14 days							
Styrene, Total, (ug/l)	624	<20	ug/l			09/28/1998	14 days							
Acrolein, Total, (ug/l)	624	<500	ug/l			09/28/1998	14 days							
Acrylonitirile, Total, (ug/l)	624	<100	ug/l			09/28/1998	14 days							
Bromobenzene, Water Whole, Total, (ug/l)		--												
1,3-Dichloropropane, Water Whole, Total, (ug/l)		--												
Methyl Bromide, Total, (ug/l)	624	<50	ug/l			09/28/1998	14 days							
Methyl Chloride, Total, (ug/l)	624	<50	ug/l			09/28/1998	14 days							
Parachloro Toluene, Total, (ug/l)		--												
Dibromoethane, Total, (ug/l)		--												
EPA Method 625 Extraction						09/23/1998	7 days							
Acenaphthene, Total, (ug/l)	625	--	ug/l			10/06/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Anthracene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzidine, Total, (ug/l)	625	<40	ug/l			10/06/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<100	ug/l			10/06/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Chrysene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							

Phoenix IB08

September 22, 1998

	Method	Result	Units	Required Method Detection Limit	Flags	Date Analyzed	Allowable Holding Time	Required MS/MSD Precision (% RPD)	Actual MS/MSD Precision (%RPD)	Required Sample Duplication Precision (% RPD)	Actual Sample Duplication Precision (% RPD)	Other QA/QC Comments (out of spec)	Field Blank Detects	Comments
2,4- Dimethylphenol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<40	ug/l			10/06/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Fluorene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Isophorone, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Naphthalene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<20	ug/l			10/06/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Phenol, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
Pyrene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<10	ug/l			10/06/1998	40 days							

Hard Copies of Data

Data Checksheet

Site	SR45
Municipality	PHOENIX
Sample Date	JUL 22, 1998

Date Received	SEPT 3, 1998

Laboratory Used	BOLIN
Laboratory Contact	STEPHANIE 942-8220
FCD Sample ID Number	P3G072298, P3C072298
Lab Sample ID Number	9807-05049-001, -002
Laboratory Invoice Number	45244

Initial Review Complete	yes	Date	10/5/98
Lab Contacted	no	Date	—
Lab Review Complete	—	Date	—
Second Review Complete	—	Date	—
Additional Review Necessary	—		

Comments

Data Validation Table Complete	yes	Date	11-10-98

Data Entered Into Database	yes	Date	11-10-98

Bolin Laboratories Inc.

17631 N. 25th Avenue • Phoenix, Arizona 85023
(602) 942 8220 • FAX (602) 942 1050

Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 7/22/98
Reported: 8/27/98
Invoice No: 045244

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9807-05049-001
Sample ID: P3G072298

Time Sampled: 11:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Biochemical Oxygen Demand	EPA 405.1	9.	mg/L	1.0	7/22/98
Dissolved Oxygen	EPA 360.1	8.22	mg/L	0.01	7/22/98
Fecal Coliform	SM 9221D	24,000	MPN/100ml		7/22/98
Fecal Streptococcus	SM 9230B	16,000.	MPN/100ml		7/22/98
Oil & Grease	EPA 413.1	<5.0	mg/L	5.0	7/29/98
Carbon tetrachloride	EPA 624	ND	ug/L	4	8/01/98
Bromomethane	EPA 624	ND	ug/L	10	8/01/98
Benzene	EPA 624	ND	ug/L	4	8/01/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	4	8/01/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	4	8/01/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	4	8/01/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	4	8/01/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	4	8/01/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	4	8/01/98
1,2-Dichloropropane	EPA 624	ND	ug/L	4	8/01/98
1,2-Dichloroethane	EPA 624	ND	ug/L	4	8/01/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	4	8/01/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	4	8/01/98
1,1-Dichloroethane	EPA 624	ND	ug/L	4	8/01/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	4	8/01/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	4	8/01/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	4	8/01/98
Toluene	EPA 624	ND	ug/L	4	8/01/98
Ethylbenzene	EPA 624	ND	ug/L	4	8/01/98
m,p-Xylenes	EPA 624	ND Y	ug/L	4	8/01/98
o-Xylene	EPA 624	ND Y	ug/L	4	8/01/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	4	8/01/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	4	8/01/98
Chloromethane	EPA 624	ND	ug/L	10	8/01/98
Chloroform	EPA 624	ND	ug/L	4	8/01/98
Bromodichloromethane	EPA 624	ND	ug/L	4	8/01/98
Bromoform	EPA 624	ND	ug/L	4	8/01/98

Bolin Laboratories Inc.

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(602) 942 8220 • FAX (602) 942 1050

Matrix: Storm Water
Sample No: 9807-05049-001

Time Sampled: 11:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chlorobenzene	EPA 624	ND	ug/L	4	8/01/98
Chloroethane	EPA 624	ND	ug/L	10	8/01/98
Dichloromethane	EPA 624	ND	ug/L	10	8/01/98
Trichlorofluoromethane	EPA 624	ND	ug/L	10	8/01/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	10	8/01/98
Vinyl Chloride	EPA 624	ND	ug/L	10	8/01/98
Dibromochloromethane	EPA 624	ND	ug/L	4	8/01/98
Total Trihalomethanes	EPA 624	ND	ug/L	4	8/01/98
Acrolein	EPA 624	ND T,Y	ug/L	100	8/01/98
Acrylonitrile	EPA 624	ND Y	ug/L	20	8/01/98
Surrogates:	EPA 624				8/01/98
***Pentafluorobenzene	EPA 624	78.	% Recovery		8/01/98
***1,2-dichloroethane-d4	EPA 624	90.	% Recovery		8/01/98
***4-bromofluorobenzene	EPA 624	76.	% Recovery		8/01/98
***1,2-dichlorobenzene-d4	EPA 624	87.	% Recovery		8/01/98
Acetone	EPA 624	ND Y	ug/L	50	8/01/98
2-Butanone (MEK)	EPA 624	ND Y	ug/L	20	8/01/98
Carbon disulfide	EPA 624	ND Y	ug/L	20	8/01/98
2-Hexanone (MBK)	EPA 624	ND Y	ug/L	20	8/01/98
Styrene	EPA 624	ND Y	ug/L	4	8/01/98
Total Xylenes	EPA 624	ND Y	ug/L	4	8/01/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	4	8/01/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	4	8/01/98
m,p-Xylenes	EPA 624	ND Y	ug/L	4	8/01/98
o-Xylene	EPA 624	ND Y	ug/L	4	8/01/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	10	8/01/98

Sample was diluted due to matrix interferences.(Method 624)
T = Result based on a Tentatively Identified Compound search.
Y = Compound not listed in cited method.

J. Kaufman

Project Manager
ADHS License No.: AZ0004

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 7/22/98
Reported: 8/27/98
Invoice No: 045244

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9807-05049-002
Sample ID: P3C072298

Time Sampled: 12:57
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
pH	EPA 150.1	8.0	Std Unit		7/22/98
Chemical Oxygen Demand	EPA 410.4	232.	mg/L	20.	8/09/98
Chloride	EPA 300.0	11.	mg/L	5.0	7/23/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	8/05/98
Total Dissolved Solids	SM 2540C	89.	mg/L	1.	7/27/98
Solids, Total Suspended	EPA 160.2	190.	mg/L	1.	7/24/98
Nitrogen as Ammonia	EPA 350.2	2.58 —	mg/L	0.03	7/24/98
Nitrogen as Nitrate	EPA 300.0	1.3	mg/L	0.1	7/22/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	7/22/98
Nitrate plus Nitrite	CALCULATION	1.3	mg/L		7/27/98
Organic Nitrogen	CALCULATION	<0.5 —	mg/L		7/27/98
Total Kjeldahl Nitrogen	EPA 351.3	2.0	mg/L	0.5	7/24/98
P as Total Phosphate	EPA 365.3	0.26	mg/L	0.05	7/27/98
Phosphorus, Dissolved	EPA 365.3	0.3	mg/L	0.05	8/04/98
P as Orthophosphate	SM 4500 PE	0.16	mg/L	0.05	7/22/98
Total Organic Carbon	SM 5310C	13.4	mg/L	0.2	7/24/98
Total Alkalinity (as CaCO3)	SM 2320B	34.	mg/L	2.	7/27/98
Sulfate, Dissolved	EPA 300.0	8.	mg/L	5.0	7/22/98
Phenolics, Total	EPA 420.1	<0.0050	mg/L	0.0050	8/03/98
Chromium, hexavalent	SM 3500-CR D	<0.01	mg/L	0.01	7/22/98
Nitrogen, Total	CALCULATION	3.3	mg/L		7/29/98
WW Metals Digestion for ICP	EPA 200.7				7/24/98
DW/WW metals digestion-AA	SM 3030E				7/24/98
Antimony	SM 3113B	<0.005	mg/L	0.005	8/14/98
Arsenic	SM 3113B	0.008	mg/L	0.005	8/06/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	8/06/98
Calcium	EPA 200.7	21.	mg/L	1.	8/12/98
Copper	EPA 200.7	0.038	mg/L	0.015	8/06/98
Lead	SM 3113B	0.026	mg/L	0.005	8/12/98
Magnesium	EPA 200.7	4.	mg/L	1.	8/12/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	7/29/98
Selenium	SM 3113B	<0.005	mg/L	0.005	7/31/98

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9807-05049-002

Time Sampled: 12:57
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Silver	EPA 200.7	<0.04	mg/L	0.04	8/06/98
Hardness, Total (Ca & Mg)	SM 2340B	68	mg/L	7.	8/12/98
Zinc	EPA 200.7	0.20	mg/L	0.02	8/06/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	8/05/98
Cadmium	EPA 213.2	0.0011	mg/L	0.001	8/05/98
Chromium	EPA 218.2	0.015	mg/L	0.001	8/07/98
Nickel	EPA 249.2	0.022	mg/L	0.010	8/06/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	8/14/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/18/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	8/11/98
Copper, Dissolved	EPA 200.7	0.023	mg/L	0.015	8/11/98
Lead, Dissolved	EPA 200.9	0.006	mg/L	0.005	8/11/98
Mercury, Dissolved	EPA 245.1	0.0002	mg/L	0.0002	7/29/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/17/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	8/11/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	8/05/98
Zinc, Dissolved	EPA 200.7	0.08	mg/L	0.02	8/11/98
Cadmium, Dissolved	EPA 213.2	<0.001	mg/L	0.001	8/05/98
Chromium, Dissolved	EPA 218.2	0.0034	mg/L	0.001	8/07/98
Nickel, Dissolved	EPA 249.2	<0.010	mg/L	0.010	8/06/98
4,4'-DDD	EPA 608	ND C	ug/L	1.0	7/31/98
4,4'-DDE	EPA 608	ND	ug/L	1.0	7/31/98
4,4'-DDT	EPA 608	ND C	ug/L	2.0	7/31/98
Aldrin	EPA 608	ND	ug/L	1.0	7/31/98
alpha-BHC	EPA 608	ND	ug/L	1.0	7/31/98
Chlordane	EPA 608	ND	ug/L	1.0	7/31/98
delta-BHC	EPA 608	ND C	ug/L	1.0	7/31/98
Dieldrin	EPA 608	ND C	ug/L	1.0	7/31/98
Endosulfan I	EPA 608	ND	ug/L	1.0	7/31/98
Endosulfan II	EPA 608	ND C	ug/L	1.0	7/31/98
Endosulfan Sulfate	EPA 608	ND	ug/L	1.0	7/31/98
Endrin	EPA 608	ND C	ug/L	1.0	7/31/98
Endrin Aldehyde	EPA 608	ND	ug/L	1.0	7/31/98
Heptachlor	EPA 608	ND	ug/L	1.0	7/31/98
Heptachlor Epoxide	EPA 608	ND	ug/L	1.0	7/31/98
Lindane (gamma-BHC)	EPA 608	ND C	ug/L	1.0	7/31/98
PCB 1016	EPA 608	ND	ug/L	1.0	7/31/98
PCB 1221	EPA 608	ND	ug/L	10	7/31/98
PCB 1232	EPA 608	ND	ug/L	1.0	7/31/98
PCB 1242	EPA 608	ND	ug/L	1.0	7/31/98
PCB 1248	EPA 608	ND	ug/L	1.0	7/31/98
PCB 1254	EPA 608	ND	ug/L	1.0	7/31/98

Bolin Laboratories Inc.

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(602) 942 8220 • FAX (602) 942 1050

Matrix: Storm Water
Sample No: 9807-05049-002

Time Sampled: 12:57
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
PCB 1260	EPA 608	ND	ug/L	1.0	7/31/98
Toxaphene	EPA 608	ND	ug/L	1.0	7/31/98
beta-BHC	EPA 608	ND C	ug/L	1.0	7/31/98
Extraction	EPA 608				7/27/98
Surrogate:	EPA 608				7/31/98
***Dibutylchlorendate	EPA 608	177 S1	% Recovery		7/31/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	5.0	8/03/98
Phenol	EPA 625	ND	ug/L	5.0	8/03/98
Aniline	EPA 625	ND	ug/L	5.0	8/03/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	10.	8/03/98
2-Chlorophenol	EPA 625	ND	ug/L	10.	8/03/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	5.0	8/03/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	5.0	8/03/98
Benzyl alcohol	EPA 625	ND	ug/L	10.	8/03/98
1,2-Dichlorobenzene	EPA 625	ND L	ug/L	5.0	8/03/98
2-Methylphenol	EPA 625	ND	ug/L	5.0	8/03/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	10.	8/03/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	5.0	8/03/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	5.0	8/03/98
Hexachloroethane	EPA 625	ND L	ug/L	10.	8/03/98
Nitrobenzene	EPA 625	ND	ug/L	10.	8/03/98
Isophorone	EPA 625	ND	ug/L	10.	8/03/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	10.	8/03/98
Benzoic acid	EPA 625	ND	ug/L	50.	8/03/98
2-Nitrophenol	EPA 625	ND	ug/L	10.	8/03/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	10.	8/03/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	10.	8/03/98
1,2,4-Trichlorobenzene	EPA 625	ND L	ug/L	5.0	8/03/98
Naphthalene	EPA 625	ND	ug/L	5.0	8/03/98
Hexachlorobutadiene	EPA 625	ND	ug/L	5.0	8/03/98
4-Chloroaniline	EPA 625	ND	ug/L	5.0	8/03/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	5.0	8/03/98
2-Methylnaphthalene	EPA 625	ND	ug/L	5.0	8/03/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	5.0	8/03/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	5.0	8/03/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	5.0	8/03/98
2-Chloronaphthalene	EPA 625	ND L	ug/L	5.0	8/03/98
2-Nitroaniline	EPA 625	ND	ug/L	5.0	8/03/98
Dimethyl Phthalate	EPA 625	ND	ug/L	5.0	8/03/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	5.0	8/03/98
Acenaphthylene	EPA 625	ND	ug/L	10.	8/03/98
3-Nitroaniline	EPA 625	ND	ug/L	5.0	8/03/98

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9807-05049-002

Time Sampled: 12:57
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Acenaphthene	EPA 625	ND	ug/L	5.0	8/03/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	10.	8/03/98
4-Nitrophenol	EPA 625	ND	ug/L	5.0	8/03/98
Dibenzofuran	EPA 625	ND	ug/L	5.0	8/03/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	5.0	8/03/98
Diethyl Phthalate	EPA 625	ND	ug/L	5.0	8/03/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	10.	8/03/98
Fluorene	EPA 625	ND	ug/L	5.0	8/03/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	10.	8/03/98
4-Nitroaniline	EPA 625	ND	ug/L	5.0	8/03/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	5.0	8/03/98
1,2-Diphenylhydrazine	EPA 625	ND **	ug/L	5.0	8/03/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	5.0	8/03/98
Hexachlorobenzene	EPA 625	ND	ug/L	10.	8/03/98
Pentachlorophenol	EPA 625	ND	ug/L	5.0	8/03/98
Phenanthrene	EPA 625	ND	ug/L	5.0	8/03/98
Anthracene	EPA 625	ND	ug/L	5.0	8/03/98
Di-n-butylphthalate	EPA 625	ND	ug/L	5.0	8/03/98
Fluoranthene	EPA 625	ND	ug/L	5.0	8/03/98
Benzidine	EPA 625	ND T	ug/L	20.	8/03/98
Pyrene	EPA 625	ND	ug/L	5.0	8/03/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	5.0	8/03/98
Bis(2-ethylhexyl)phthalate	EPA 625	23.1	ug/L	10.	8/03/98
Benzo (a) anthracene	EPA 625	ND	ug/L	5.0	8/03/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	5.0	8/03/98
Chrysene	EPA 625	ND	ug/L	5.0	8/03/98
Di-n-octylphthalate	EPA 625	ND	ug/L	5.0	8/03/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	5.0	8/03/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	5.0	8/03/98
Benzo (a) pyrene	EPA 625	ND	ug/L	5.0	8/03/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	5.0	8/03/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	5.0	8/03/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	5.0	8/03/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	10.	8/03/98
Extraction	EPA 625				7/28/98
Surrogate:	EPA 625				8/03/98
***d5-Phenol	EPA 625	23.1	% Recovery		8/03/98
***2-Fluorophenol	EPA 625	19.1	% Recovery		8/03/98
***d5-Nitrobenzene	EPA 625	38.8	% Recovery		8/03/98
***2-Fluorobiphenyl	EPA 625	43.5	% Recovery		8/03/98
***2,4,6-Tribromophenol	EPA 625	66.6	% Recovery		8/03/98
***d14-Terphenyl	EPA 625	60.7	% Recovery		8/03/98

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C = Continuing Calibration was above method control limits. Data was not impacted.
L = The Laboratory Fortified Blank Spike was outside the laboratory acceptance limits. The Laboratory Fortified Blank Spike duplicate was acceptable. The data may have been impacted but is considered valid.
S1 = Surrogate recovery was above laboratory acceptance limits. Data was not impacted.
T = Result based on a Tentatively Identified Compound search.

Cadmium, Chromium and Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.
Ammonia analyzed by Aquatic Consulting, Tempe AZ. #AZ0003.
Phenol analyzed by McKenzie Labs, Phoenix AZ, #AZ0034.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 7/22/98
Reported: 8/27/98
Invoice No: 045244

Project Name: NPDES Stormwater Analysis

Matrix: DI Water
Sample No: 9807-05049-003
Sample ID: Travel Blank

Time Sampled: 11:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Carbon tetrachloride	EPA 624	ND	ug/L	2	8/01/98
Bromomethane	EPA 624	ND	ug/L	5	8/01/98
Benzene	EPA 624	ND	ug/L	2	8/01/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	2	8/01/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	2	8/01/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	2	8/01/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	2	8/01/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	2	8/01/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	2	8/01/98
1,2-Dichloropropane	EPA 624	ND	ug/L	2	8/01/98
1,2-Dichloroethane	EPA 624	ND	ug/L	2	8/01/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	2	8/01/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	2	8/01/98
1,1-Dichloroethane	EPA 624	ND	ug/L	2	8/01/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	2	8/01/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	2	8/01/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	2	8/01/98
Toluene	EPA 624	ND	ug/L	2	8/01/98
Ethylbenzene	EPA 624	ND	ug/L	2	8/01/98
m,p-Xylenes	EPA 624	ND Y	ug/L	2	8/01/98
o-Xylene	EPA 624	ND Y	ug/L	2	8/01/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	2	8/01/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	2	8/01/98
Chloromethane	EPA 624	ND	ug/L	5	8/01/98
Chloroform	EPA 624	ND	ug/L	2	8/01/98
Bromodichloromethane	EPA 624	ND	ug/L	2	8/01/98
Bromoform	EPA 624	ND	ug/L	2	8/01/98
Chlorobenzene	EPA 624	ND	ug/L	2	8/01/98
Chloroethane	EPA 624	ND	ug/L	5	8/01/98
Dichloromethane	EPA 624	ND	ug/L	5	8/01/98
Trichlorofluoromethane	EPA 624	ND	ug/L	5	8/01/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	5.	8/01/98

Bolin Laboratories Inc.

17631 N. 25th Avenue • Phoenix, Arizona 85023
(602) 942 8220 • FAX (602) 942 1050

Matrix: DI Water
Sample No: 9807-05049-003

Time Sampled: 11:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Vinyl Chloride	EPA 624	ND	ug/L	5	8/01/98
Dibromochloromethane	EPA 624	ND	ug/L	2	8/01/98
Total Trihalomethanes	EPA 624	ND	ug/L	2	8/01/98
Acrolein	EPA 624	ND T,Y	ug/L	50	8/01/98
Acrylonitrile	EPA 624	ND Y	ug/L	10	8/01/98
Surrogates:	EPA 624				8/01/98
***Pentafluorobenzene	EPA 624	78.	% Recovery		8/01/98
***1,2-dichloroethane-d4	EPA 624	90.	% Recovery		8/01/98
***4-bromofluorobenzene	EPA 624	75.	% Recovery		8/01/98
***1,2-dichlorobenzene-d4	EPA 624	86.	% Recovery		8/01/98
Acetone	EPA 624	ND Y	ug/L	25	8/01/98
1,2,3-Trichlorobenzene	EPA 624	ND Y	ug/L	2.	8/01/98
2-Butanone (MEK)	EPA 624	ND Y	ug/L	10	8/01/98
Carbon disulfide	EPA 624	ND Y	ug/L	10	8/01/98
2-Hexanone (MBK)	EPA 624	ND Y	ug/L	10	8/01/98
Styrene	EPA 624	ND Y	ug/L	2	8/01/98
Total Xylenes	EPA 624	ND Y	ug/L	2	8/01/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	2	8/01/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	2	8/01/98
m,p-Xylenes	EPA 624	ND Y	ug/L	2	8/01/98
o-Xylene	EPA 624	ND Y	ug/L	2	8/01/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	5.	8/01/98

T = Result based on a Tentatively Identified Compound search.
Y = Compound not listed in cited method.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 7/22/98
Reported: 8/27/98
Invoice No: 045244

Project Name: NPDES Stormwater Analysis

Matrix: Wastewater
Sample No: 9807-05049-004
Sample ID: P3A (Salt River)

Time Sampled: 13:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
WW Metals Digestion for ICP	EPA 200.7				7/24/98
DW/WW metals digestion-AA	SM 3030E				7/24/98
Arsenic	SM 3113B	<0.005	mg/L	0.005	8/06/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	8/06/98
Copper	EPA 200.7	<0.015	mg/L	0.015	8/06/98
Mercury	EPA 245.1	0.0010	mg/L	0.0002	7/29/98
Zinc	EPA 200.7	0.07	mg/L	0.02	8/06/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	7/22/98
Nitrogen as Nitrate	EPA 300.0	1.0	mg/L	0.1	7/22/98
P as Total Phosphate	EPA 365.3	0.20	mg/L	0.05	7/27/98
Phosphorus, Dissolved	EPA 365.3	0.2	mg/L	0.05	8/04/98
Total Phosphate	CALCULATION	0.61	mg/L	0.15	7/27/98
Cadmium	EPA 213.2	<0.001	mg/L	0.001	8/05/98
Chromium	EPA 218.2	0.0064	mg/L	0.001	8/07/98
Nickel	EPA 249.2	<0.010	mg/L	0.010	8/06/98

Cadmium, Chromium and Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 7/22/98
Reported: 8/27/98
Invoice No: 045244

Project Name: NPDES Stormwater Analysis

Matrix: Wastewater
Sample No: 9807-05049-005
Sample ID: P3B (Salt River)

Time Sampled: 13:00
Date Sampled: 7/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
WW Metals Digestion for ICP	EPA 200.7				7/28/98
DW/WW metals digestion-AA	SM 3030E				7/28/98
Arsenic	SM 3113B	0.006	mg/L	0.005	8/06/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	8/17/98
Copper	EPA 200.7	0.043	mg/L	0.015	8/17/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	7/29/98
Zinc	EPA 200.7	0.22	mg/L	0.02	8/17/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	7/22/98
Nitrogen as Nitrate	EPA 300.0	0.9	mg/L	0.1	7/22/98
P as Total Phosphate	EPA 365.3	0.18	mg/L	0.05	7/27/98
Phosphorus, Dissolved	EPA 365.3	0.3	mg/L	0.05	8/04/98
Total Phosphate	CALCULATION	0.55	mg/L	0.15	7/27/98
Cadmium	EPA 213.2	<0.001	mg/L	0.001	8/05/98
Chromium	EPA 218.2	0.0059	mg/L	0.001	8/07/98
Nickel	EPA 249.2	<0.010	mg/L	0.010	8/06/98

Cadmium, Chromium and Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

☐ 17631 N. 25th Ave. Phoenix AZ 85023
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☐ 440 N. Alvernon, Suite 103, Tucson AZ 85711
(520) 327-1234 • Fax(520) 327-0518

CHAIN OF CUSTODY RECORD

Page_____of_____

Laboratory Sample No. 9807 3049

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax
FLOOD CONTROL DIST.	2801 W DURANGO	PHOENIX	AZ	85009	506 5401	506-4601

Project Name	Project Number	Contact	P.O. No.	Fax Results ☐	QC Report ☒	Special Detection Limits ☐
PHOENIX NPDES		D GARDNER				

SAMPLE TYPE CODES: DW=Drinking Water, WW=Wastewater, SW=Surface Water, GW=Groundwater, O=Other_____, S=Soil/Solid, T=Travel Blank, F=Food, G=Sludge

TURN AROUND TIME: ☐ Standard 10 - 15 Day ☐ Other_____ **Laboratory Authorization Required for Rush** ★ ★

REQUESTED ANALYSES

Client's Sample Identification	Date	Time	Sample Location	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Bolin Use Only)	624	NPDES SCHED	Cd Cr As Be Hg Cu Zn Ni	NO2 NO3	Tl/DISS P	LAB NO
P3G072298	7/22/98	1100			X	SW				X	X				-01
P3C072298	7/22/98	1257		X		SW		6			X	**			-02
P3A	7/22/98	1300	SALT RIVER										X X X X X		-04
P3B	7/22/98	1300	SALT RIVER										X X X X X		-05
TRAVEL BLANK						T				X					-03

Comments / Special Instructions: * Boo, Ro, [illegible] NPN, ~~[illegible]~~ Strep, OIG, ~~625 608~~

** pH Cond, Cl, PN, NO, TOC NH3, NO2, NO3, TKN, PO4, OP, TOC, Alk, Diss O2, Phenol, [illegible], 625 608 / [illegible]

Metals: Ca, As, Be, Cr, Cu, Fe, Mg, Hg, Se, Ag, Zn, Tl, Hardness, Cd Cr, Ni [illegible]

SAMPLE CONDITION UPON RECEIPT

No. of Containers	25
Temperature	[illegible]
Custody Seals	Y N
Seals Intact	Y N
Preserved	Y N

RELINQUISHED BY

	Signature	Date	Printed Name	Time
①	[signature]	7/22/98	DAVID GARDNER	1355
②				
③				

SAMPLES RECEIVED BY

Signature	Date	Printed Name	Time
[signature]	7/22/98	S Boyle	1355

WHITE-LAB YELLOW-LAB PINK-CLIENT

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control District
Bolin Sample ID: 9807-5049

Analyte	Method	Date Analyzed	Spk Conc.	MS %Rec	MSD %Rec	RPD	Blk	ICV %Rec	CCV %Rec
Biological Oxygen Demand	405.1	7/22/98	N/A	N/A	N/A	#####	<1.0	95	-
Oil and Grease	413.1	7/29/98	N/A	N/A	N/A	#####	<5.0	99	-
Chemical Oxygen Demand	410.4	8/9/98	30	100	98	2.02	<20	104	111
Chloride	300	7/22/98	20	101	101	0	<5.0	102	103
Total Dissolved Solids	SM 2540C	7/27/98	N/A	N/A	N/A	#####	<1.0	101	-
Total Suspended Solids	160.2	7/24/98	N/A	N/A	N/A	#####	<1.0	92	-
Nitrite	300	7/22/98	2.03	96	99	3.077	<0.1	105	105
Nitrate	300	7/22/98	4.54	106	106	0	<0.1	104	100
Total Phosphorous	365.3	7/27/98	0.1	110	114	3.571	<0.05	102	103
Disolved Phosphorous	365.2	8/4/98	0.1	105	99	5.882	<0.05	94	99
Ortho-Phosphorous	365.2	7/22/98	0.1	93	93	0	<0.05	102	104
Total Organic Carbons	SM 5310C	7/24/98	5	101	106	4.831	0.12	90	108
Alkalinity	SM 2320B	7/27/98	20	97	95	2.083	<2.0	96	97
Hexavalent Chromium	SM 3500	7/22/98	0.2	112	118	5.217	<0.01	104	109
Dissolved Sulfate	300	7/22/98	20	100	102	1.98	<5.0	107	102

ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9807-5049-2

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	Blk (ppb)	Blk-Spk Conc. ppb	Blk-Spk %Rec	Blk MSD Conc. ppb	Blk MSD %Rec	RPD	ICV %Rec	CCV %Rec
Alpha-BHC	EPA 608	7/31/98	5.0	<PQL	4.87	97	4.20	84	15	102	109
Beta-BHC	EPA 608	7/31/98	5.0	<PQL	5.86	117	5.47	109	7	103	121 *
Gamma(Lindane)-BHC	EPA 608	7/31/98	5.0	<PQL	5.92	118	5.27	105	12	105	119 *
Delta-BHC	EPA 608	7/31/98	5.0	<PQL	5.56	111	5.05	101	10	104	116 *
Heptachlor	EPA 608	7/31/98	5.0	<PQL	5.26	105	4.54	91	15	107	104
Aldrin	EPA 608	7/31/98	5.0	<PQL	5.09	102	4.51	90	12	99	107
Heptachlor Epoxide	EPA 608	7/31/98	5.0	<PQL	5.84	117	5.31	106	10	103	113
Endosulfan I	EPA 608	7/31/98	5.0	<PQL	5.62	112	4.94	99	13	102	109
Dieldrin	EPA 608	7/31/98	5.0	<PQL	6.06	121	5.58	112	8	99	123 *
4,4,-DDE	EPA 608	7/31/98	5.0	<PQL	4.96	99.2	4.43	89	11	100	105
Endrin	EPA 608	7/31/98	5.0	<PQL	6.43	129	5.94	119	8	107	122 *
Endosulfan II	EPA 608	7/31/98	5.0	<PQL	6.20	124	5.46	109	13	103	119 *
4,4-DDD	EPA 608	7/31/98	5.0	<PQL	6.20	124	5.46	109	13	107	119 *
Endrin Aldehyde	EPA 608	7/31/98	5.0	<PQL	5.29	106	4.62	92	14	107	108
Endosulfan Sulfate	EPA 608	7/31/98	5.0	<PQL	6.06	121	5.54	111	9	105	110
4,4-DDT	EPA 608	7/31/98	5.0	<PQL	6.79	136	6.13	123	10	111	116 *

*=Continuing Calibration Was Above Method Control Limits, Data Was Not Impacted.
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank
BLK-SPK is a Blank Spike

McKENZIE LABORATORIES

Date: 05-Aug-98

CLIENT: Bolin Laboratories Inc
Work Order: 9807283
Project:

QC SUMMARY REPORT

Method Blank

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Phenolics, Total Recoverable	<0.0050	0.0050		mg/L	1	EPA420.1	8/3/98	8/3/98	HO	420.1-8/3/98

Qualifiers:

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
H - Analyzed past EPA recommended Holding Time
R - RPD outside accepted recovery limits
E - Value above quantitation range
D - Surrogate diluted out

Confidential and Privileged

McKENZIE LABORATORIES

Date: 05-Aug-98

CLIENT: Bolin Laboratories Inc
Work Order: 9807283
Project:

QC SUMMARY REPORT

Sample Duplicate

Analyte	Result	PQL	Units	RPD Ref Val	% RPD	RPD Limit	Test Code	Date Prepared	Date Analyzed	Analyst	Qual
Sample ID: **9807341-01AD** Batch ID: 420.1-8/3/98											
Client ID:											
Phenolics, Total Recoverable	<0.0050	0.0050	mg/L	<0.0050	0%	20	EPA420.1	8/3/98	8/3/98	HO	
Sample ID: **9807283-01AD** Batch ID: 420.1-8/3/98											
Client ID: **9807-5049-02**											
Phenolics, Total Recoverable	<0.0050	0.0050	mg/L	<0.0050	0%	20	EPA420.1	8/3/98	8/3/98	HO	

Qualifiers:

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
H - Analyzed past EPA recommended Holding Time
R - RPD outside accepted recovery limits
E - Value above quantitation range
D - Surrogate diluted out

Confidential and Privileged

McKENZIE LABORATORIES

Date: 05-Aug-98

CLIENT: Bolin Laboratories Inc
Work Order: 9807283
Project:

QC SUMMARY REPORT

Sample Matrix Spike

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: **9807341-01AS**	Batch ID: 420.1-8/3/98			Test Code: EPA420.1				Date Analyzed: 8/3/98			
Client ID:				Units: mg/L				Date Prepared: 8/3/98			
Phenolics, Total Recoverable	0.09590	0.0050	0.1	<0.0050	96%	80	120				
Sample ID: **9807283-01AS**	Batch ID: 420.1-8/3/98			Test Code: EPA420.1				Date Analyzed: 8/3/98			
Client ID: **9807-5049-02**				Units: mg/L				Date Prepared: 8/3/98			
Phenolics, Total Recoverable	0.08840	0.0050	0.1	<0.0050	88%	80	120				

Qualifiers:

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
H - Analyzed past EPA recommended Holding Time
R - RPD outside accepted recovery limits
E - Value above quantitation range
D - Surrogate diluted out

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McKENZIE LABORATORIES

Date: 05-Aug-98

CLIENT: Bolin Laboratories Inc
Work Order: 9807283
Project:

QC SUMMARY REPORT

Blank Spike (primary source)

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: LCS	Batch ID: 420.1-8/3/98			Test Code: EPA420.1				Date Analyzed: 8/3/98			
				Units: mg/L				Date Prepared: 8/3/98			
Phenolics, Total Recoverable	0.09080	0.0050	0.1	<0.0050	91%	85	115				

Qualifiers:

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
H - Analyzed past EPA recommended Holding Time
R - RPD outside accepted recovery limits
E - Value above quantitation range
D - Surrogate diluted out

Confidential and Privileged

McKENZIE LABORATORIES

Date: 05-Aug-98

CLIENT: Bolin Laboratories Inc
Work Order: 9807283
Project:

QC SUMMARY REPORT

Secondary Source QC Sample

Analyte	Result	PQL	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Sample ID: **LCSV**	Batch ID: 420.1-8/3/98			Test Code: EPA420.1				Date Analyzed: 8/3/98			
				Units: mg/L				Date Prepared: 8/3/98			
Phenolics, Total Recoverable	0.09170	0.0050	0.1	<0.0050	92%	85	115				

Qualifiers:

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
H - Analyzed past EPA recommended Holding Time
R - RPD outside accepted recovery limits
E - Value above quantitation range
D - Surrogate diluted out

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Bolin Laboratories Inc.

17631 N. 25th Avenue • Phoenix, Arizona 85023
(602) 942 8220 • FAX (602) 942 1050

Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9807-5049-1, 3

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BLK MS Conc. UNITS	BLK MS %Rec	BLK MSD Conc. UNITS	BLK MSD %Rec	RPD	BLK (ppb)	CCV %Rec
1,1-Dichloroethylene	EPA 624	8/1/98	10	11.4	114	11.9	119	4	<PQL	
Benzene	EPA 624	8/1/98	10	9.9	99	10.2	102	3	<PQL	
Trichloroethylene	EPA 624	8/1/98	10	9.9	99	10.3	103	4	<PQL	
Toluene	EPA 624	8/1/98	10	9.6	96	9.9	99	3	<PQL	
Chlorobenzene	EPA 624	8/1/98	10	10.0	100	10.4	104	4	<PQL	
Chloromethane	EPA 624	8/1/98	10						<PQL	110
Vinylchloride	EPA 624	8/1/98	10						<PQL	124
1,1-Dichloroethylene	EPA 624	8/1/98	10						<PQL	120
1,1-Dichloroethane	EPA 624	8/1/98	10						<PQL	110
Chloroform	EPA 624	8/1/98	10						<PQL	111
1,2-Dichloropropane	EPA 624	8/1/98	10						<PQL	106
Toluene	EPA 624	8/1/98	10						<PQL	104
Chlorobenzene	EPA 624	8/1/98	10						<PQL	105
Ethylbenzene	EPA 624	8/1/98	10						<PQL	107
Bromoform	EPA 624	8/1/98	10						<PQL	112
1,1,2,2-Tetrachloroethane	EPA 624	8/1/98	10						<PQL	91.5

CCV = Continuing Calibration Verification.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 5049

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BS Conc.	BS %Rec	BSD Conc.	BSD %Rec	RPD	BLK (ppb)	CCV %Rec
Acenaphthene	EPA 625	8/3/98	100	53	53	76	76	36	<PQL	99
Acenaphthylene	EPA 625	8/3/98	100	53	53	70	70	28	<PQL	89
Anthracene	EPA 625	8/3/98	100	72	72	88	88	20	<PQL	96
Benzo(a)anthracene	EPA 625	8/3/98	100	80	80	99	99	21	<PQL	100
Benzo(b)fluoranthene	EPA 625	8/3/98	100	72	72	90	90	22	<PQL	97
Benzo(k)fluoranthene	EPA 625	8/3/98	100	70	70	87	87	22	<PQL	96
Benzo(a)pyrene	EPA 625	8/3/98	100	69	69	87	87	23	<PQL	97
Benzo(ghi)perylene	EPA 625	8/3/98	100	70	70	90	90	25	<PQL	94
Benzyl butyl phthalate	EPA 625	8/3/98	100	75	75	92	92	20	<PQL	98
Bis(2-chloroethyl)ether	EPA 625	8/3/98	100	46	46	61	61	28	<PQL	105
Bis(2-chloroethoxy)methane	EPA 625	8/3/98	100	54	54	76	76	34	<PQL	100
Bis(2-chloroisopropyl)ether	EPA 625	8/3/98	100	41	41	60	60	38	<PQL	90
Bis(2-ethylhexyl) phthalate	EPA 625	8/3/98	100	74	74	92	92	22	<PQL	96
4-Bromophenyl phenyl ether	EPA 625	8/3/98	100	74	74	92	92	22	<PQL	109
2-Chloronaphthalene	EPA 625	8/3/98	100	44	44	64	64	37	<PQL	89
4-Chlorophenyl phenyl ether	EPA 625	8/3/98	100	61	61	82	82	29	<PQL	103
Chrysene	EPA 625	8/3/98	100	73	73	96	96	27	<PQL	95
Dibenzo(a,h)anthracene	EPA 625	8/3/98	100	73	73	93	93	24	<PQL	101
Di-n-butyl phthalate	EPA 625	8/3/98	100	70	70	94	94	29	<PQL	92
1,2-Dichlorobenzene	EPA 625	8/3/98	100	31	31	48	48	43	<PQL	97
1,3-Dichlorobenzene	EPA 625	8/3/98	100	27	27	48	48	56	<PQL	104
1,4-Dichlorobenzene	EPA 625	8/3/98	100	28	28	48	48	53	<PQL	101
3,3'-Dichlorobenzidine	EPA 625	8/3/98	100	74	74	93	93	23	<PQL	99
Diethyl phthalate	EPA 625	8/3/98	100	68	68	88	88	26	<PQL	98
Dimethyl phthalate	EPA 625	8/3/98	100	68	68	86	86	23	<PQL	91
2,4-Dinitrotoluene	EPA 625	8/3/98	100	73	73	90	90	21	<PQL	102
2,6-Dinitrotoluene	EPA 625	8/3/98	100	68	68	86	86	23	<PQL	101
Di-n-octyl phthalate	EPA 625	8/3/98	100	74	74	92	92	22	<PQL	103
Fluoranthene	EPA 625	8/3/98	100	75	75	92	92	20	<PQL	94
Fluorene	EPA 625	8/3/98	100	63	63	82	82	26	<PQL	103
Hexachlorobenzene	EPA 625	8/3/98	100	69	69	88	88	24	<PQL	103

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Hexachlorobutadiene	EPA 625	8/3/98	100	30	30	53	53	55	<PQL	99
Hexachloroethane	EPA 625	8/3/98	100	30	30	56	56	60	<PQL	122
Indeno(1,2,3-cd)pyrene	EPA 625	8/3/98	100	75	75	97	97	26	<PQL	104
Isophorone	EPA 625	8/3/98	100	59	59	75	75	24	<PQL	96
Naphthalene	EPA 625	8/3/98	100	38	38	65	65	52	<PQL	97
Nitrobenzene	EPA 625	8/3/98	100	52	52	72	72	32	<PQL	107
N-Nitrosodi-n-propylamine	EPA 625	8/3/98	100	53	53	76	76	36	<PQL	105
Phenanthrene	EPA 625	8/3/98	100	73	73	88	88	19	<PQL	94
Pyrene	EPA 625	8/3/98	100	85	85	105	105	21	<PQL	63
1,2,4-Trichlorobenzene	EPA 625	8/3/98	100	33	33	57	57	53	<PQL	95
4-Chloro-3-methylphenol	EPA 625	8/3/98	200	71	36	85	43	18	<PQL	106
2-Chlorophenol	EPA 625	8/3/98	200	43	22	59	30	31	<PQL	96
2,4-Dichlorophenol	EPA 625	8/3/98	200	51	26	66	33	26	<PQL	91
2,4-Dimethylphenol	EPA 625	8/3/98	200	51	26	67	34	27	<PQL	93
2,4-Dinitrophenol	EPA 625	8/3/98	200	86	43	101	51	16	<PQL	101
2-Methyl-4,6-dinitrophenol	EPA 625	8/3/98	200	74	37	95	48	25	<PQL	100
2-Nitrophenol	EPA 625	8/3/98	200	49	25	72	36	38	<PQL	95
4-Nitrophenol	EPA 625	8/3/98	200	33	17	48	24	37	<PQL	119
Pentachlorophenol	EPA 625	8/3/98	200	75	38	101	51	30	<PQL	107
Phenol	EPA 625	8/3/98	200	19	10	26	13	31	<PQL	95
2,4,6-Trichlorophenol	EPA 625	8/3/98	200	64	32	79	40	21	<PQL	98

CCV = Continuing Calibration Verification.
BS = Matrix Spike.
BSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5049 total

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/6/98	0.2	93	94	<PQL	99	99
Calcium	EPA 200.7	8/12/98	30	106	110	<PQL	100	102
Copper	EPA 200.7	8/6/98	1	100	100	<PQL	101	100
Silver	EPA 200.7	8/6/98	0.5	105	106	<PQL	104	104
Zinc	EPA 200.7	8/6/98	1	104	104	<PQL	103	103
Antimony	EPA 200.9/SM 3113B	8/14/98	0.020	60	75	<PQL	90	90
Arsenic	EPA 200.9/SM 3113B	8/6/98	0.020	100	110	<PQL	100	110
Lead	EPA 200.9/SM 3113B	8/12/98	0.020	100	100	<PQL	100	100
Selenium	EPA 200.9/SM 3113B	7/31/98	0.020	MI	MI	<PQL	100	90
Thallium	EPA 200.9/SM 3113B	8/5/98	0.020	100	95	<PQL	90	90
Mercury	EPA 245.1	7/29/98	0.005	86	80	<PQL	96	98

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5049 diss

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/11/98	0.2	124	134	<PQL	101	102
Copper	EPA 200.7	8/11/98	1	121	131	<PQL	95	103
Silver	EPA 200.7	8/11/98	0.5	76	74	<PQL	102	104
Zinc	EPA 200.7	8/11/98	1	MI	MI	<PQL	103	108
Antimony	EPA 200.9/SM 3113B	8/14/98	0.020	60	75	<PQL	90	90
Arsenic	EPA 200.9/SM 3113B	8/18/98	0.020	105	115	<PQL	100	100
Lead	EPA 200.9/SM 3113B	8/11/98	0.020	100	100	<PQL	95	95
Selenium	EPA 200.9/SM 3113B	8/17/98	0.020	70	70	<PQL	100	100
Thallium	EPA 200.9/SM 3113B	8/5/98	0.020	110	110	<PQL	110	110
Mercury	EPA 245.1	7/29/98	0.005	62	94	<PQL	98	102

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Data Checksheet

Site	SR45
Municipality	Phoenix
Sample Date	Aug 15, 1998

Date Received	Sept 15, 1998

Laboratory Used	Bolin
Laboratory Contact	Stephanie 942-8220
FCD Sample ID Number	PHX Grab 3 / Phx Comp 3
Lab Sample ID Number	9808-05690-001, -002
Laboratory Invoice Number	45628

Initial Review Complete	yes	Date	10-8-98
Lab Contacted		Date	
Lab Review Complete		Date	
Second Review Complete		Date	
Additional Review Necessary			

Comments
Norg + NH_3 / TKN not equal

Data Validation Table Complete	yes	Date	11-10-98

Data Entered Into Database	yes	Date	11-10-98

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 8/16/98
Reported: 9/10/98
Invoice No: 045628

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9808-05690-001
Sample ID: PHX Grab 3(Salt River/40th St)

Time Sampled: 0:30
Date Sampled: 8/16/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Biochemical Oxygen Demand	EPA 405.1	72.	mg/L	1.0	8/17/98
Dissolved Oxygen	EPA 360.1	9.38	mg/L	0.01	8/16/98
Fecal Coliform	SM 9221D	>160,000.	MPN/100ml		8/16/98
Fecal Streptococcus	SM 9230B	>160,000.	MPN/100ml		8/16/98
Oil & Grease	EPA 413.1	<5.0	mg/L	5.0	8/24/98
Carbon tetrachloride	EPA 624	ND	ug/L	40	8/20/98
Bromomethane	EPA 624	ND	ug/L	100	8/20/98
Benzene	EPA 624	ND	ug/L	40	8/20/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	40	8/20/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	40	8/20/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	40	8/20/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	40	8/20/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	40	8/20/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	40	8/20/98
1,2-Dichloropropane	EPA 624	ND	ug/L	40	8/20/98
1,2-Dichloroethane	EPA 624	ND	ug/L	40	8/20/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	40	8/20/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	40	8/20/98
1,1-Dichloroethane	EPA 624	ND	ug/L	40	8/20/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	40	8/20/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	40	8/20/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	40	8/20/98
Toluene	EPA 624	ND	ug/L	40	8/20/98
Ethylbenzene	EPA 624	ND	ug/L	40	8/20/98
m,p-Xylenes	EPA 624	ND Y	ug/L	40	8/20/98
o-Xylene	EPA 624	ND Y	ug/L	40	8/20/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	40	8/20/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	40	8/20/98
Chloromethane	EPA 624	ND	ug/L	100	8/20/98
Chloroform	EPA 624	ND	ug/L	40	8/20/98
Bromodichloromethane	EPA 624	ND	ug/L	40	8/20/98
Bromoform	EPA 624	ND	ug/L	40	8/20/98

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Matrix: Storm Water
Sample No: 9808-05690-001

Time Sampled: 0:30
Date Sampled: 8/16/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chlorobenzene	EPA 624	ND	ug/L	40	8/20/98
Chloroethane	EPA 624	ND	ug/L	100	8/20/98
Dichloromethane	EPA 624	ND	ug/L	100	8/20/98
Trichlorofluoromethane	EPA 624	ND	ug/L	100	8/20/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	100	8/20/98
Vinyl Chloride	EPA 624	ND	ug/L	100	8/20/98
Dibromochloromethane	EPA 624	ND	ug/L	40	8/20/98
Total Trihalomethanes	EPA 624	ND	ug/L	40	8/20/98
Acrolein	EPA 624	ND T,Y	ug/L	1000	8/20/98
Acrylonitrile	EPA 624	ND Y	ug/L	200	8/20/98
Surrogates:	EPA 624				8/20/98
***Pentafluorobenzene	EPA 624	85.	% Recovery		8/20/98
***1,2-dichloroethane-d4	EPA 624	84.	% Recovery		8/20/98
***4-bromofluorobenzene	EPA 624	76.	% Recovery		8/20/98
***1,2-dichlorobenzene-d4	EPA 624	92.	% Recovery		8/20/98
Acetone	EPA 624	ND Y	ug/L	500	8/20/98
2-Butanone (MEK)	EPA 624	ND Y	ug/L	200	8/20/98
Carbon disulfide	EPA 624	ND Y	ug/L	200	8/20/98
2-Hexanone (MBK)	EPA 624	ND Y	ug/L	200	8/20/98
Styrene	EPA 624	ND Y	ug/L	40	8/20/98
Total Xylenes	EPA 624	ND Y	ug/L	40	8/20/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	40	8/20/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	40	8/20/98
m,p-Xylenes	EPA 624	ND Y	ug/L	40	8/20/98
o-Xylene	EPA 624	ND Y	ug/L	40	8/20/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	100	8/20/98

For EPA 624, Sample was diluted due to matrix interferences.
Y = Compound not listed in cited method.
T = Result based on a Tentatively Identified Compound search.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 8/16/98
Reported: 9/10/98
Invoice No: 045628

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9808-05690-002
Sample ID: PHX Comp 3(Salt River/40th St)

Time Sampled: 0:30
Date Sampled: 8/16/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
pH	EPA 150.1	7.4	Std Unit		8/17/98
Chemical Oxygen Demand	EPA 410.4	175.	mg/L	20.	8/25/98
Chloride	EPA 300.0	28.	mg/L	5.0	8/17/98
Total Dissolved Solids	SM 2540C	148.	mg/L	1.	8/21/98
Solids, Total Suspended	EPA 160.2	163.	mg/L	1.	8/17/98
Nitrogen as Ammonia	EPA 350.2	0.83	mg/L	0.03	8/21/98
Nitrogen as Nitrate	EPA 300.0	1.9	mg/L	0.1	8/17/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	8/17/98
Nitrate plus Nitrite	CALCULATION	1.9	mg/L		8/25/98
Organic Nitrogen	CALCULATION	<0.5	mg/L		9/03/98
Total Kjeldahl Nitrogen	EPA 351.3	0.7	mg/L	0.5	8/19/98
P as Total Phosphate	EPA 365.3	0.6 D1	mg/L	0.1	8/28/98
Phosphorus, Dissolved	EPA 365.3	0.6 D1	mg/L	0.1	8/28/98
P as Orthophosphate	SM 4500 PE	<0.05	mg/L	0.05	8/17/98
Total Alkalinity (as CaCO3)	SM 2320B	34.	mg/L	2.	8/20/98
Sulfate, Dissolved	EPA 300.0	15.	mg/L	5.0	8/17/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	8/17/98
Nitrogen, Total	CALCULATION	2.6	mg/L		8/25/98
WW Metals Digestion for ICP	EPA 200.7				8/19/98
DW/WW metals digestion-AA	SM 3030E				8/19/98
Antimony	SM 3113B	<0.005	mg/L	0.005	8/20/98
Arsenic	SM 3113B	<0.005	mg/L	0.005	8/31/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	8/31/98
Calcium	EPA 200.7	22.	mg/L	1.	8/31/98
Copper	SM 3113B	0.042	mg/L	0.005	9/08/98
Lead	SM 3113B	0.018	mg/L	0.005	8/20/98
Magnesium	EPA 200.7	5.	mg/L	1.	8/31/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	8/26/98
Selenium	SM 3113B	<0.005	mg/L	0.005	8/28/98
Silver	EPA 200.7	<0.04	mg/L	0.04	9/01/98
Hardness, Total (Ca & Mg)	SM 2340B	76	mg/L	7.	8/31/98
Zinc	EPA 200.7	0.23	mg/L	0.03	8/31/98

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9808-05690-002

Time Sampled: 0:30
Date Sampled: 8/16/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Thallium	EPA 200.9	<0.001	mg/L	0.001	8/26/98
Cadmium	EPA 213.2	0.00028	mg/L	0.0002	8/26/98
Chromium	EPA 218.2	0.0037	mg/L	0.001	8/27/98
Nickel	EPA 249.2	0.0028	mg/L	0.001	8/26/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	8/19/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/18/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	8/31/98
Copper, Dissolved	EPA 200.7	<0.015	mg/L	0.015	8/31/98
Lead, Dissolved	EPA 200.9	<0.005	mg/L	0.005	9/02/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	8/26/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/28/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	8/31/98
Thallium, Dissolved	EPA 200.9	0.001	mg/L	0.001	8/26/98
Zinc, Dissolved	EPA 200.7	0.02	mg/L	0.02	9/01/98
Cadmium, Dissolved	EPA 213.2	0.00036	mg/L	0.0002	8/26/98
Chromium, Dissolved	EPA 218.2	0.0036	mg/L	0.001	8/27/98
Nickel, Dissolved	EPA 249.2	0.0046	mg/L	0.001	8/26/98

D1 = Sample was diluted due to high concentration of target analyte.

Ammonia analyzed by Aquatic Consulting, Tempe AZ. #AZ0003.
Total & Dissolved Cadmium, Chromium & Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 8/16/98
Reported: 9/10/98
Invoice No: 045628

Project Name: NPDES Stormwater Analysis

Matrix: DI Water
Sample No: 9808-05690-003
Sample ID: Travel Blank

Time Sampled: 0:00
Date Sampled: 0/00/0000

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Carbon tetrachloride	EPA 624	ND	ug/L	2	8/20/98
Bromomethane	EPA 624	ND	ug/L	5	8/20/98
Benzene	EPA 624	ND	ug/L	2	8/20/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	2	8/20/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	2	8/20/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	2	8/20/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	2	8/20/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	2	8/20/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	2	8/20/98
1,2-Dichloropropane	EPA 624	ND	ug/L	2	8/20/98
1,2-Dichloroethane	EPA 624	ND	ug/L	2	8/20/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	2	8/20/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	2	8/20/98
1,1-Dichloroethane	EPA 624	ND	ug/L	2	8/20/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	2	8/20/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	2	8/20/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	2	8/20/98
Toluene	EPA 624	ND	ug/L	2	8/20/98
Ethylbenzene	EPA 624	ND	ug/L	2	8/20/98
m,p-Xylenes	EPA 624	ND Y	ug/L	2	8/20/98
o-Xylene	EPA 624	ND Y	ug/L	2	8/20/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	2	8/20/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	2	8/20/98
Chloromethane	EPA 624	ND	ug/L	5	8/20/98
Chloroform	EPA 624	ND	ug/L	2	8/20/98
Bromodichloromethane	EPA 624	ND	ug/L	2	8/20/98
Bromoform	EPA 624	ND	ug/L	2	8/20/98
Chlorobenzene	EPA 624	ND	ug/L	2	8/20/98
Chloroethane	EPA 624	ND	ug/L	5	8/20/98
Dichloromethane	EPA 624	ND	ug/L	5	8/20/98
Trichlorofluoromethane	EPA 624	ND	ug/L	5	8/20/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	5.	8/20/98

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Matrix: DI Water
Sample No: 9808-05690-003

Time Sampled: 0:00
Date Sampled: 0/00/0000

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Vinyl Chloride	EPA 624	ND	ug/L	5	8/20/98
Dibromochloromethane	EPA 624	ND	ug/L	2	8/20/98
Total Trihalomethanes	EPA 624	ND	ug/L	2	8/20/98
Acrolein	EPA 624	ND T,Y	ug/L	50	8/20/98
Acrylonitrile	EPA 624	ND Y	ug/L	10	8/20/98
Surrogates:	EPA 624				8/20/98
***Pentafluorobenzene	EPA 624	85.	% Recovery		8/20/98
***1,2-dichloroethane-d4	EPA 624	85.	% Recovery		8/20/98
***4-bromofluorobenzene	EPA 624	76.	% Recovery		8/20/98
***1,2-dichlorobenzene-d4	EPA 624	89.	% Recovery		8/20/98
Acetone	EPA 624	ND Y	ug/L	25	8/20/98
1,2,3-Trichlorobenzene	EPA 624	ND Y	ug/L	2.	8/20/98
2-Butanone (MEK)	EPA 624	ND Y	ug/L	10	8/20/98
Carbon disulfide	EPA 624	ND Y	ug/L	10	8/20/98
2-Hexanone (MBK)	EPA 624	ND Y	ug/L	10	8/20/98
Styrene	EPA 624	ND Y	ug/L	2	8/20/98
Total Xylenes	EPA 624	ND Y	ug/L	2	8/20/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	2	8/20/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	2	8/20/98
m,p-Xylenes	EPA 624	ND Y	ug/L	2	8/20/98
o-Xylene	EPA 624	ND Y	ug/L	2	8/20/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	5.	8/20/98

T = Result based on a Tentatively Identified Compound search.
Y = Compound not listed in cited method.

J. Kaufman

Project Manager
ADHS License No.: AZ0004

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5690 total

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/31/98	1	110	110	<PQL	98	98
Calcium	EPA 200.7	8/31/98	30	102	102	<PQL	101	96
Copper	EPA 200.9/SM 3113B	9/8/98	1	125	115	<PQL	105	105
Magnesium	EPA 200.7	8/31/98	30	99	100	<PQL	101	97
Silver	EPA 200.7	8/31/98	0.5	87	88	<PQL	104	105
Zinc	EPA 200.7	8/31/98	1	105	107	<PQL	102	98
Antimony	EPA 200.9/SM 3113B	8/19/98	0.020	105	100	<PQL	110	110
Arsenic	EPA 200.9/SM 3113B	8/31/98	0.020	90	85	<PQL	100	110
Lead	EPA 200.9/SM 3113B	8/20/98	0.020	95	100	<PQL	90	90
Selenium	EPA 200.9/SM 3113B	8/28/98	0.020	80	80	<PQL	95	110
Thallium	EPA 200.9/SM 3113B	8/26/98	0.020	105	135	<PQL	100	100
Mercury	EPA 245.1	8/26/98	0.005	98	106	<PQL	102	104

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5690 diss

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/31/98	0.2	108	108	<PQL	100	97
Copper	EPA 200.7	8/31/98	1	111	108	<PQL	99	100
Silver	EPA 200.7	8/31/98	0.5	85	86	<PQL	96	95
Zinc	EPA 200.7	9/1/98	1	118	110	<PQL	102	98
Antimony	EPA 200.9/SM 3113B	8/19/98	0.020	70	90	<PQL	95	110
Arsenic	EPA 200.9/SM 3113B	8/31/98	0.020	100	90	<PQL	100	110
Lead	EPA 200.9/SM 3113B	8/20/98	0.020	100	100	<PQL	100	100
Selenium	EPA 200.9/SM 3113B	8/28/98	0.020	100	100	<PQL	100	100
Thallium	EPA 200.9/SM 3113B	8/26/98	0.020	100	90	<PQL	90	90
Mercury	EPA 245.1	8/26/98	0.005	104	104	<PQL	102	98

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9808-5690-1, 3

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BLK MS Conc. UNITS	BLK MS %Rec	BLK MSD Conc. UNITS	BLK MSD %Rec	RPD	Blk (ppb)	CCV %Rec
1,1-Dichloroethylene	EPA 624	8/20/98	10	10.4	104	11.2	112	7	<PQL	-
Benzene	EPA 624	8/20/98	10	10.1	101	10.5	105	4	<PQL	-
Trichloroethylene	EPA 624	8/20/98	10	10.3	103	10.3	103	0	<PQL	-
Toluene	EPA 624	8/20/98	10	9.7	96.9	10.2	102	5	<PQL	-
Chlorobenzene	EPA 624	8/20/98	10	10.2	102	10.6	106	4	<PQL	-
Chloromethane	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	171
Vinylchloride	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	108
1,1-Dichloroethylene	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	107
1,1-Dichloroethane	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	105
Chloroform	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	109
1,2-Dichloropropane	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	103
Toluene	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	105
Chlorobenzene	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	102
Ethylbenzene	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	105
Bromoform	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	107
1,1,2,2-Tetrachloroethane	EPA 624	8/20/98	10	-	-	-	-	-	<PQL	119

ICV = Initial Calibration Verification.
CCV = Continuing Calibration Verification.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control District
Bolin Sample ID: 9808-5690

Analyte	Method	Date Analyzed	Spk Conc.	MS %Rec	MSD %Rec	RPD	Blk	ICV %Rec	CCV %Rec
Biological Oxygen Demand	405.1	8/17/98	N/A	N/A	N/A	#####	<1.0	85	-
Oil and Grease	413.1	8/24/98	N/A	N/A	N/A	#####	<5.0	97	-
Chemical Oxygen Demand	410.4	8/25/98	30	101	100	0.995	<20	92	101
Chloride	300	8/17/98	20	100	100	0	<5.0	105	104
Total Dissolved Solids	SM 2540C	8/20/98	N/A	N/A	N/A	#####	<1.0	104	-
Total Suspended Solids	160.2	8/17/98	N/A	N/A	N/A	#####	<1.0	92	-
Nitrite	300	8/17/98	2.03	103	105	1.923	<0.1	100	100
Nitrate	300	8/17/98	4.54	103	104	0.966	<0.1	106	105
Total Phosphorous	365.3	8/28/98	0.1	107	97	9.804	<0.05	100	108
Disolved Phosphorous	365.2	8/28/98	0.1	108	103	4.739	<0.05	102	99
Ortho-Phosphorous	365.2	8/17/98	0.1	88	92	4.444	<0.05	105	105
Total Organic Carbons	SM 5310C	8/20/98	5	92	93	1.081	0.04	108	108
Alkalinity	SM 2320B	8/20/98	100	92	90	2.198	<2.0	94	94
Hexavalent Chromium	SM 3500	8/17/98	0.2	115	112	2.643	<0.01	103	104
Total Kjeldahl Nitrogen	351.4	8/19/98	2	90	83	8.092	<0.5	93	97
Dissolved Sulfate	300	8/17/98	20	102	101	0.985	<5.0	104	103

ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

☒ 17631 N. 25th Ave. Phoenix AZ 85023
(602) 942-8220 • Fax(602) 942-1050

☐ 440 N. Alvernon, Suite 103, Tucson AZ 85711
(520) 327-1234 • Fax(520) 327-0518

CHAIN OF CUSTODY RECORD

Page 1 of 1

Laboratory Sample No. 9808-5690

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax
Flood Control	2801 W. Durango	Phoenix	AZ	85009	506-8401	506 4601

Project Name	Project Number	Contact	P.O. No.	Fax Results ☐	QC Report ☒	Special Detection Limits ☐
Phx NPDES		Dave Garder				

SAMPLE TYPE CODES

DW=Drinking Water, S=Soil/Solid, WW=Wastewater, T=Travel Blank, SW=Surface Water, F=Food, GW=Groundwater, G=Sludge, O=Other Stormwater

TURN AROUND TIME

☐ Standard 10 - 15 Day
☐ Other

Laboratory Authorization Required for Rush ★ ★

REQUESTED ANALYSES

Client's Sample Identification	Date	Time	Sample Location	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Bolin Use Only)	SAA Attachment		BOD, DO, Fecal	O&G 624	Metals ★	COD, Phos, TKN, TSS	TDS, pH, Alk, 304	Cl, Cd, NO2, Nitrate	DIP NH3						LAB NO.
Phx 3	8/15	12:30	SAH River / 40st	6	12	0	0	18				x	x									(grab)		-01
															x		x					(comp)		-02
Travel Blank			T 2																					-03

Comments / Special Instructions: ★ Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn, Ca, Mg
★ Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn
NO3 (NH3) (2) Phenol (2) Cl (1) O&G TOC, Cn-, Phenol

SAMPLE CONDITION UPON RECEIPT

No. of Containers	16
Temperature	0-10
Custody Seals	Y N
Seals Intact	Y N
Preserved	(Y) N

RELINQUISHED BY

	Signature	Date	Printed Name	Time
①	Charles F Klenner	8/16/98	Charles F Klenner	0309
②				
③				

SAMPLES RECEIVED BY

Signature	Date	Printed Name	Time
Zeeba R. Mirza	8/16/98	ZEEBA R. MIRZA.	03:09

WHITE-LAB YELLOW-LAB PINK-CLIENT

Data Checksheet

Site	SR49
Municipality	PHOENIX
Sample Date	Aug 17, 1998

Date Received	Sept 15, 1998

Laboratory Used	Bolin
Laboratory Contact	Stephanie 942-8220
FCD Sample ID Number	PHX 2 Grab / PHX 2-Comp
Lab Sample ID Number	9808-05705-001, -002
Laboratory Invoice Number	45733

Initial Review Complete	yes	Date	10/8/98
Lab Contacted		Date	
Lab Review Complete		Date	
Second Review Complete		Date	
Additional Review Necessary			

Comments
No travel blank results

Data Validation Table Complete	yes	Date	11/10/98
Data Entered Into Database	yes	Date	11/10/98

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 8/18/98
Reported: 9/15/98
Invoice No: 045733

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9808-05705-001
Sample ID: PHX 2-Grab (67th Ave)

Time Sampled: 22:05
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Biochemical Oxygen Demand	EPA 405.1	53.	mg/L	1.0	8/19/98
Dissolved Oxygen	EPA 360.1	9.14	mg/L	0.01	8/18/98
Fecal Coliform	SM 9221D	>160,000.	MPN/100ml		8/18/98
Fecal Streptococcus	SM 9230B	>160,000.	MPN/100ml		8/18/98
Oil & Grease	EPA 413.1	<5.0	mg/L	5.0	8/24/98
Carbon tetrachloride	EPA 624	ND	ug/L	8	8/28/98
Bromomethane	EPA 624	ND	ug/L	20	8/28/98
Benzene	EPA 624	ND	ug/L	8	8/28/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	8	8/28/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	8	8/28/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	8	8/28/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	8	8/28/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	8	8/28/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	8	8/28/98
1,2-Dichloropropane	EPA 624	ND	ug/L	8	8/28/98
1,2-Dichloroethane	EPA 624	ND	ug/L	8	8/28/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	8	8/28/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	8	8/28/98
1,1-Dichloroethane	EPA 624	ND	ug/L	8	8/28/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	8	8/28/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	8	8/28/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	8	8/28/98
Toluene	EPA 624	ND	ug/L	8	8/28/98
Ethylbenzene	EPA 624	ND	ug/L	8	8/28/98
m,p-Xylenes	EPA 624	ND Y	ug/L	8	8/28/98
o-Xylene	EPA 624	ND Y	ug/L	8	8/28/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	8	8/28/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	8	8/28/98
Chloromethane	EPA 624	ND	ug/L	20	8/28/98
Chloroform	EPA 624	ND	ug/L	8	8/28/98
Bromodichloromethane	EPA 624	ND	ug/L	8	8/28/98
Bromoform	EPA 624	ND	ug/L	8	8/28/98

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Matrix: Storm Water
Sample No: 9808-05705-001

Time Sampled: 22:05
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chlorobenzene	EPA 624	ND	ug/L	8	8/28/98
Chloroethane	EPA 624	ND	ug/L	20	8/28/98
Dichloromethane	EPA 624	ND	ug/L	20	8/28/98
Trichlorofluoromethane	EPA 624	ND	ug/L	20	8/28/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	20	8/28/98
Vinyl Chloride	EPA 624	ND	ug/L	20	8/28/98
Dibromochloromethane	EPA 624	ND	ug/L	8	8/28/98
Total Trihalomethanes	EPA 624	ND	ug/L	8	8/28/98
Acrolein	EPA 624	ND T,Y	ug/L	200	8/28/98
Acrylonitrile	EPA 624	ND Y	ug/L	40	8/28/98
Surrogates:	EPA 624				8/28/98
***Pentafluorobenzene	EPA 624	85.	% Recovery		8/28/98
***1,2-dichloroethane-d4	EPA 624	92.	% Recovery		8/28/98
***4-bromofluorobenzene	EPA 624	77.	% Recovery		8/28/98
***1,2-dichlorobenzene-d4	EPA 624	90.	% Recovery		8/28/98
Acetone	EPA 624	ND Y	ug/L	100	8/28/98
2-Butanone (MEK)	EPA 624	ND Y	ug/L	40	8/28/98
Carbon disulfide	EPA 624	ND Y	ug/L	40	8/28/98
2-Hexanone (MBK)	EPA 624	ND Y	ug/L	40	8/28/98
Styrene	EPA 624	ND Y	ug/L	8	8/28/98
Total Xylenes	EPA 624	ND Y	ug/L	8	8/28/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	8	8/28/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	8	8/28/98
m,p-Xylenes	EPA 624	ND Y	ug/L	8	8/28/98
o-Xylene	EPA 624	ND Y	ug/L	8	8/28/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	20	8/28/98

For EPA 8260B, the sample was diluted due to matrix interferences.
T = Result based on a Tentatively Identified Compound search.
Y = Compound not listed in cited method.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 8/18/98
Reported: 9/15/98
Invoice No: 045733

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9808-05705-002
Sample ID: PHX 2-Comp (67th Ave)

Time Sampled: 23:45
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
pH	EPA 150.1	7.4	Std Unit		8/18/98
Chemical Oxygen Demand	EPA 410.4	58.	mg/L	20.	8/25/98
Chloride	EPA 300.0	23.	mg/L	5.0	8/18/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	8/24/98
Total Dissolved Solids	SM 2540C	167.	mg/L	1.	8/21/98
Solids, Total Suspended	EPA 160.2	<1.	mg/L	1.	8/19/98
Nitrogen as Ammonia	EPA 350.2	0.44	mg/L	0.03	8/20/98
Nitrogen as Nitrate	EPA 300.0	<0.1	mg/L	0.1	8/18/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	8/18/98
Nitrate plus Nitrite	CALCULATION	<0.1	mg/L		8/25/98
Organic Nitrogen	CALCULATION	<0.5	mg/L		9/03/98
Total Kjeldahl Nitrogen	EPA 351.3	<0.5	mg/L	0.5	8/19/98
P as Total Phosphate	EPA 365.3	0.3	mg/L	0.05	8/28/98
Phosphorus, Dissolved	EPA 365.3	0.3	mg/L	0.05	8/28/98
P as Orthophosphate	SM 4500 PE	0.1	mg/L	0.05	8/18/98
Total Organic Carbon	SM 5310C	14.7	mg/L	0.2	8/20/98
Total Alkalinity (as CaCO3)	SM 2320B	90.	mg/L	2.	8/20/98
Sulfate, Dissolved	EPA 300.0	9.	mg/L	5.0	8/18/98
Phenolics, Total	EPA 420.1	<0.0050	mg/L	0.0050	8/31/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	8/18/98
Nitrogen, Total	CALCULATION	<0.5	mg/L		8/25/98
WW Metals Digestion for ICP	EPA 200.7				8/19/98
DW/WW metals digestion-AA	SM 3030E				8/19/98
Antimony	SM 3113B	<0.005	mg/L	0.005	8/20/98
Arsenic	SM 3113B	<0.005	mg/L	0.005	8/31/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	8/31/98
Calcium	EPA 200.7	<1.	mg/L	1.	8/31/98
Copper	SM 3113B	<0.005	mg/L	0.005	9/08/98
Lead	SM 3113B	<0.005	mg/L	0.005	8/20/98
Magnesium	EPA 200.7	<1.	mg/L	1.	8/31/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	8/19/98
Selenium	SM 3113B	<0.005	mg/L	0.005	8/28/98

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Matrix: Storm Water
Sample No: 9808-05705-002

Time Sampled: 23:45
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Silver	EPA 200.7	<0.04	mg/L	0.04	8/25/98
Hardness, Total (Ca & Mg)	SM 2340B	<7.	mg/L	7.	8/31/98
Zinc	EPA 200.7	<0.03	mg/L	0.03	8/25/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	8/26/98
Cadmium	EPA 213.2	<0.0002	mg/L	0.0002	8/26/98
Chromium	EPA 218.2	<0.001	mg/L	0.001	8/27/98
Nickel	EPA 249.2	<0.001	mg/L	0.001	8/26/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	8/20/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/18/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	8/31/98
Copper, Dissolved	EPA 200.7	<0.015	mg/L	0.015	8/31/98
Lead, Dissolved	EPA 200.9	<0.005	mg/L	0.005	9/02/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	8/26/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	8/28/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	8/31/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	8/26/98
Zinc, Dissolved	EPA 200.7	<0.02	mg/L	0.02	9/01/98
Cadmium, Dissolved	EPA 213.2	<0.0002	mg/L	0.0002	8/26/98
Chromium, Dissolved	EPA 218.2	<0.001	mg/L	0.001	8/27/98
Nickel, Dissolved	EPA 249.2	0.0021	mg/L	0.001	8/26/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	5.0	8/26/98
Phenol	EPA 625	ND	ug/L	5.0	8/26/98
Aniline	EPA 625	ND	ug/L	5.0	8/26/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	10.	8/26/98
2-Chlorophenol	EPA 625	ND	ug/L	10.	8/26/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	5.0	8/26/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	5.0	8/26/98
Benzyl alcohol	EPA 625	ND	ug/L	10.	8/26/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	5.0	8/26/98
2-Methylphenol	EPA 625	ND	ug/L	5.0	8/26/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	10.	8/26/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	5.0	8/26/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	5.0	8/26/98
Hexachloroethane	EPA 625	ND	ug/L	10.	8/26/98
Nitrobenzene	EPA 625	ND	ug/L	10.	8/26/98
Isophorone	EPA 625	ND	ug/L	10.	8/26/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	10.	8/26/98
Benzoic acid	EPA 625	ND	ug/L	50.	8/26/98
2-Nitrophenol	EPA 625	ND	ug/L	10.	8/26/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	10.	8/26/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	10.	8/26/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	5.0	8/26/98

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Matrix: Storm Water
Sample No: 9808-05705-002

Time Sampled: 23:45
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Naphthalene	EPA 625	ND	ug/L	5.0	8/26/98
Hexachlorobutadiene	EPA 625	ND	ug/L	5.0	8/26/98
4-Chloroaniline	EPA 625	ND	ug/L	5.0	8/26/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	5.0	8/26/98
2-Methylnaphthalene	EPA 625	ND	ug/L	5.0	8/26/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	5.0	8/26/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	5.0	8/26/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	5.0	8/26/98
2-Chloronaphthalene	EPA 625	ND	ug/L	5.0	8/26/98
2-Nitroaniline	EPA 625	ND	ug/L	5.0	8/26/98
Dimethyl Phthalate	EPA 625	ND	ug/L	5.0	8/26/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	5.0	8/26/98
Acenaphthylene	EPA 625	ND	ug/L	10.	8/26/98
3-Nitroaniline	EPA 625	ND	ug/L	5.0	8/26/98
Acenaphthene	EPA 625	ND	ug/L	5.0	8/26/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	20.	8/26/98
4-Nitrophenol	EPA 625	ND	ug/L	5.0	8/26/98
Dibenzofuran	EPA 625	ND	ug/L	5.0	8/26/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	5.0	8/26/98
Diethyl Phthalate	EPA 625	ND	ug/L	5.0	8/26/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	10.	8/26/98
Fluorene	EPA 625	ND	ug/L	5.0	8/26/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	10.	8/26/98
4-Nitroaniline	EPA 625	ND	ug/L	5.0	8/26/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	5.0	8/26/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	5.0	8/26/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	5.0	8/26/98
Hexachlorobenzene	EPA 625	ND	ug/L	10.	8/26/98
Pentachlorophenol	EPA 625	ND	ug/L	10.	8/26/98
Phenanthrene	EPA 625	ND	ug/L	5.0	8/26/98
Anthracene	EPA 625	ND	ug/L	5.0	8/26/98
Di-n-butylphthalate	EPA 625	ND	ug/L	5.0	8/26/98
Fluoranthene	EPA 625	ND	ug/L	5.0	8/26/98
Benzidine	EPA 625	ND	ug/L	20.	8/26/98
Pyrene	EPA 625	ND	ug/L	5.0	8/26/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	5.0	8/26/98
Bis(2-ethylhexyl)phthalate	EPA 625	13.5	ug/L	10.	8/26/98
Benzo (a) anthracene	EPA 625	ND	ug/L	5.0	8/26/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	5.0	8/26/98
Chrysene	EPA 625	ND	ug/L	5.0	8/26/98
Di-n-octylphthalate	EPA 625	ND	ug/L	5.0	8/26/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	5.0	8/26/98

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Matrix: Storm Water
Sample No: 9808-05705-002

Time Sampled: 23:45
Date Sampled: 8/17/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Benzo (k) fluoranthene	EPA 625	ND	ug/L	5.0	8/26/98
Benzo (a) pyrene	EPA 625	ND	ug/L	5.0	8/26/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	5.0	8/26/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	5.0	8/26/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	5.0	8/26/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	10.	8/26/98
Extraction	EPA 625				8/20/98
Surrogate:	EPA 625				8/26/98
***d5-Phenol	EPA 625	37	% Recovery		8/26/98
***2-Fluorophenol	EPA 625	31	% Recovery		8/26/98
***d5-Nitrobenzene	EPA 625	61	% Recovery		8/26/98
***2-Fluorobiphenyl	EPA 625	65	% Recovery		8/26/98
***2,4,6-Tribromophenol	EPA 625	77	% Recovery		8/26/98
***d14-Terphenyl	EPA 625	62	% Recovery		8/26/98
4,4'-DDD	EPA 608	ND	ug/L	1.0	8/25/98
4,4'-DDE	EPA 608	ND	ug/L	1.0	8/25/98
4,4'-DDT	EPA 608	ND	ug/L	2.0	8/25/98
Aldrin	EPA 608	ND	ug/L	1.0	8/25/98
alpha-BHC	EPA 608	ND	ug/L	1.0	8/25/98
Chlordane	EPA 608	ND	ug/L	1.0	8/25/98
delta-BHC	EPA 608	ND	ug/L	1.0	8/25/98
Dieldrin	EPA 608	ND	ug/L	1.0	8/25/98
Endosulfan I	EPA 608	ND	ug/L	1.0	8/25/98
Endosulfan II	EPA 608	ND	ug/L	1.0	8/25/98
Endosulfan Sulfate	EPA 608	ND	ug/L	1.0	8/25/98
Endrin	EPA 608	ND	ug/L	1.0	8/25/98
Endrin Aldehyde	EPA 608	ND	ug/L	1.0	8/25/98
Heptachlor	EPA 608	ND	ug/L	1.0	8/25/98
Heptachlor Epoxide	EPA 608	ND	ug/L	1.0	8/25/98
Lindane (gamma BHC)	EPA 608	ND C	ug/L	1.0	8/25/98
PCB 1016	EPA 608	ND	ug/L	1.0	8/25/98
PCB 1221	EPA 608	ND	ug/L	10	8/25/98
PCB 1232	EPA 608	ND	ug/L	1.0	8/25/98
PCB 1242	EPA 608	ND	ug/L	1.0	8/25/98
PCB 1248	EPA 608	ND	ug/L	1.0	8/25/98
PCB 1254	EPA 608	ND	ug/L	1.0	8/25/98
PCB 1260	EPA 608	ND	ug/L	1.0	8/25/98
Toxaphene	EPA 608	ND	ug/L	1.0	8/25/98
beta-BHC	EPA 608	ND	ug/L	1.0	8/25/98
Extraction	EPA 608				8/21/98
Surrogate:	EPA 608	120			8/25/98
***Dibutylchlorendate	EPA 608	120	% Recovery		8/25/98

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C = Continuing Calibration was above method control limits. Data was not impacted.
T = Result based on a Tentatively Identified Compound search.
* = 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions. This compound was calibrated as azobenzene.

Ammonia analyzed by Aquatic Consulting, Tempe AZ. #AZ0003.
Total & Dissolved Cd, Cr & Ni analyzed by BC Labs, Bakersfield CA, #AZ0345.
Phenol analyzed by McKenzie Labs, Phoenix AZ, #AZ0034.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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440 N. Alvernon, Suite 103, Tucson AZ 85711
(520) 327-1234 • Fax(502) 327-0518

CHAIN OF CUSTODY RECORD

Page 1 of 1

Laboratory Sample No. 9808-5705

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax
FLOOD CONTROL	2801 W DURANGO	PHOENIX	AZ	85009	506 8401	506 4601

Project Name	Project Number	Contact	P.O. No.	Fax Results ☐	QC Report ☒	Special Detection Limits ☐
PHX NPDES		DAVE GARDNER				

SAMPLE TYPE CODES

DW=Drinking Water, S=Soil/Solid, WW=Wastewater, T=Travel Blank, SW=Surface Water, F=Food, GW=Groundwater, G=Sludge, O=Other

TURN AROUND TIME

☐ Standard 10 - 15 Day
☐ Other

Laboratory Authorization Required for Rush

	Client's Sample Identification	Date	Time	Sample Location	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Bolin Use Only)	NPDES	624	LAB NO.
*	PHX 2	8/17/98	2205	67TH AVE		X	SW		8		X		-01
**	PHX 2	8/17/98	2345	67TH AVE	X		SW		6		X		-02
	TRAVEL BLANK						T					X	-03

Comments / Special Instructions: QC DATA FROM SUB-LABS TOO * FC, FS, 604, 00 [illegible] G, 624
** Diss. Mt: Sb, As, Be, Cu, Pb, Hg, Se, Ag, Tl, Zn, Cr, Cd, Ni; Metals: Sb, As, Be, Cu, Pb, Hg, Se, Ag, Hard, Zn, Tl, Cd, Cr, Ni
pH, Cond, Cl, Cu, TDS, TS, NH3, NO, NO2, [illegible], TKN, TP, OP, OP, TOC, [illegible], Phenol, [illegible], 625, 608

SAMPLE CONDITION UPON RECEIPT

No. of Containers	23
Temperature	On Ice
Custody Seals	Y (N)
Seals Intact	Y N
Preserved	(Y) N

WHITE-LAB YELLOW-LAB PINK-CLIENT

	RELINQUISHED BY		SAMPLES RECEIVED BY	
①	Signature [signature]	Date 8/18/98	Signature [signature]	Date 8/18/98
	Printed Name DAVID GARDNER	Time 0023	Printed Name Bryan Roberts	Time 0023
②	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time
③	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5705 total

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/31/98	1	110	110	<PQL	98	98
Calcium	EPA 200.7	8/31/98	30	102	102	<PQL	101	96
Copper	EPA 200.9/SM 3113B	9/8/98	1	125	115	<PQL	105	105
Magnesium	EPA 200.7	8/31/98	30	99	100	<PQL	101	97
Silver	EPA 200.7	8/31/98	0.5	87	88	<PQL	104	105
Zinc	EPA 200.7	8/31/98	1	105	107	<PQL	102	98
Antimony	EPA 200.9/SM 3113B	8/19/98	0.020	105	100	<PQL	110	110
Arsenic	EPA 200.9/SM 3113B	8/31/98	0.020	90	85	<PQL	100	110
Lead	EPA 200.9/SM 3113B	8/20/98	0.020	95	100	<PQL	90	90
Selenium	EPA 200.9/SM 3113B	8/28/98	0.020	80	80	<PQL	95	110
Thallium	EPA 200.9/SM 3113B	8/26/98	0.020	105	135	<PQL	100	100
Mercury	EPA 245.1	8/26/98	0.005	98	106	<PQL	102	104

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: MCFC
Bolin Sample ID: 9807-5705 diss

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	8/31/98	0.2	108	108	<PQL	100	97
Copper	EPA 200.7	8/31/98	1	111	108	<PQL	99	100
Silver	EPA 200.7	8/31/98	0.5	85	86	<PQL	96	95
Zinc	EPA 200.7	9/1/98	1	118	110	<PQL	102	98
Antimony	EPA 200.9/SM 3113B	1/20/00	0.020	105	100	<PQL	110	110
Arsenic	EPA 200.9/SM 3113B	8/31/98	0.020	100	90	<PQL	100	110
Lead	EPA 200.9/SM 3113B	8/20/98	0.020	100	100	<PQL	100	100
Selenium	EPA 200.9/SM 3113B	8/28/98	0.020	100	100	<PQL	100	100
Thallium	EPA 200.9/SM 3113B	8/26/98	0.020	100	90	<PQL	90	90
Mercury	EPA 245.1	8/26/98	0.005	104	104	<PQL	102	98

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: MCFCD
Bolin Sample ID: 9808-5705-01

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BS Conc.	BS %Rec	BSD Conc.	BSD %Rec	RPD	BLK (ppb)	CCV %Rec
Phenol	EPA 625	8/26/98	200	58	29	49	25	17	<PQL	100
Bis(2-chloroethyl)ether	EPA 625	8/26/98	100	80	80	68	68	16	<PQL	111
2-Chlorophenol	EPA 625	8/26/98	200	131	66	112	56	16	<PQL	100
1,3-Dichlorobenzene	EPA 625	8/26/98	100	67	67	60	60	11	<PQL	103
1,4-Dichlorobenzene	EPA 625	8/26/98	100	67	67	61	61	9	<PQL	102
1,2-Dichlorobenzene	EPA 625	8/26/98	100	71	71	60	60	17	<PQL	97
Bis(2-chloroisopropyl)ether	EPA 625	8/26/98	100	69	69	61	61	12	<PQL	99
N-Nitrosodi-n-propylamine	EPA 625	8/26/98	100	80	80	68	68	16	<PQL	90
Hexachloroethane	EPA 625	8/26/98	100	79	79	65	65	19	<PQL	116
Nitrobenzene	EPA 625	8/26/98	100	78	78	69	69	12	<PQL	96
Isophorone	EPA 625	8/26/98	100	92	92	79	79	15	<PQL	94
2-Nitrophenol	EPA 625	8/26/98	200	160	80	131	66	20	<PQL	99
2,4-Dimethylphenol	EPA 625	8/26/98	200	148	74	131	66	12	<PQL	99
bis(2-Chloroethoxy)methane	EPA 625	8/26/98	100	83	83	68	68	20	<PQL	97
2,4-Dichlorophenol	EPA 625	8/26/98	200	139	70	126	63	10	<PQL	91
1,2,4-Trichlorobenzene	EPA 625	8/26/98	100	73	73	63	63	15	<PQL	94
Naphthalene	EPA 625	8/26/98	100	74	74	63	63	16	<PQL	96
Hexachlorobutadiene	EPA 625	8/26/98	100	71	71	60	60	17	<PQL	96
4-Chloro-3-methylphenol	EPA 625	8/26/98	200	169	85	153	77	10	<PQL	99
2,4,6-Trichlorophenol	EPA 625	8/26/98	200	170	85	154	77	10	<PQL	95
2-Chloronaphthalene	EPA 625	8/26/98	100	87	87	77	77	12	<PQL	92
Acenaphthylene	EPA 625	8/26/98	100	88	88	77	77	13	<PQL	94
Dimethyl phthalate	EPA 625	8/26/98	100	94	94	82	82	14	<PQL	94
2,6-Dinitrotoluene	EPA 625	8/26/98	100	100	100	86	86	15	<PQL	99
Acenaphthene	EPA 625	8/26/98	100	82	82	76	76	8	<PQL	99
2,4-Dinitrophenol	EPA 625	8/26/98	200	164	82	149	75	10	<PQL	103
2,4-Dinitrotoluene	EPA 625	8/26/98	100	94	94	91	91	3	<PQL	103
4-Nitrophenol	EPA 625	8/26/98	200	68	34	66	33	3	<PQL	106
Fluorene	EPA 625	8/26/98	100	83	83	80	80	4	<PQL	105
Diethylphthalate	EPA 625	8/26/98	100	83	83	81	81	2	<PQL	99
4-Chlorophenylphenylether	EPA 625	8/26/98	100	79	79	74	74	7	<PQL	97

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2-Methyl-4,6-dinitrophenol	EPA 625	8/26/98	200	169	85	163	82	4	<PQL	99
4-Bromophenoxybenzene	EPA 625	8/26/98	100	85	85	78	78	9	<PQL	100
Hexachlorobenzene	EPA 625	8/26/98	100	83	83	84	84	1	<PQL	101
Pentachlorophenol	EPA 625	8/26/98	200	175	88	165	83	6	<PQL	106
Phenanthrene	EPA 625	8/26/98	100	88	88	80	80	10	<PQL	99
Anthracene	EPA 625	8/26/98	100	87	87	80	80	8	<PQL	99
Di-n-butylphthalate	EPA 625	8/26/98	100	95	95	90	90	5	<PQL	107
Fluoranthene	EPA 625	8/26/98	100	90	90	87	87	3	<PQL	103
Pyrene	EPA 625	8/26/98	100	102	102	97	97	5	<PQL	106
Butylbenzylphthalate	EPA 625	8/26/98	100	93	93	89	89	4	<PQL	98
Benzo(a)anthracene	EPA 625	8/26/98	100	90	90	90	90	0	<PQL	102
Chrysene	EPA 625	8/26/98	100	97	97	95	95	2	<PQL	103
3,3'-Dichlorobenzidine	EPA 625	8/26/98	100	70	70	68	68	3	<PQL	93
bis(2-Ethylhexyl)phthalate	EPA 625	8/26/98	100	88	88	88	88	0	<PQL	104
Di-n-octylphthalate	EPA 625	8/26/98	100	85	85	80	80	6	<PQL	97
Benzo(b)fluoranthene	EPA 625	8/26/98	100	93	93	87	87	7	<PQL	102
Benzo(k)fluoranthene	EPA 625	8/26/98	100	95	95	88	88	8	<PQL	103
Benzo(a)pyrene	EPA 625	8/26/98	100	94	94	87	87	8	<PQL	103
Indeno(1,2,3-cd)pyrene	EPA 625	8/26/98	100	94	94	88	88	7	<PQL	104
Dibenzo(a,h)anthracene	EPA 625	8/26/98	100	92	92	86	86	7	<PQL	100
Benzo(g,h,i)perylene	EPA 625	8/26/98	100	93	93	86	86	8	<PQL	105

CCV = Continuing Calibration Verification.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9808-5705-2

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	Blk (ppb)	Blk Spk Conc. ppb	Blk Spk %Rec	Blk Spk Dup Conc. ppb	Blk Spk Dup %Rec	ICV %Rec	CCV %Rec
Alpha-BHC	EPA 608	8/25/98	5.0	<PQL	4.57	91	4.71	94	103	105
Beta-BHC	EPA 608	8/25/98	5.0	<PQL	5.42	108	5.52	110	105	111
Gamma(Lindane)-BHC	EPA 608	8/25/98	5.0	<PQL	5.44	109	5.50	110	106	116*
Delta-BHC	EPA 608	8/25/98	5.0	<PQL	5.04	101	5.12	102	103	109
Heptachlor	EPA 608	8/25/98	5.0	<PQL	5.04	101	5.12	102	101	104
Aldrin	EPA 608	8/25/98	5.0	<PQL	4.80	96	4.97	99	102	105
Heptachlor Epoxide	EPA 608	8/25/98	5.0	<PQL	5.15	103	5.17	103	102	99
Endosulfan I	EPA 608	8/25/98	5.0	<PQL	4.85	97	5.05	101	102	102
Dieldrin	EPA 608	8/25/98	5.0	<PQL	5.18	104	5.36	107	102	104
4,4,-DDE	EPA 608	8/25/98	5.0	<PQL	4.31	86	4.57	91	98	98
Endrin	EPA 608	8/25/98	5.0	<PQL	5.63	113	5.78	116	102	106
Endosulfan II	EPA 608	8/25/98	5.0	<PQL	5.25	105	5.57	111	101	110
4,4-DDD	EPA 608	8/25/98	5.0	<PQL	5.25	105	5.57	111	101	110
Endrin Aldehyde	EPA 608	8/25/98	5.0	<PQL	4.15	83	4.23	85	100	102
Endosulfan Sulfate	EPA 608	8/25/98	5.0	<PQL	5.42	108	5.59	112	101	110
4,4-DDT	EPA 608	8/25/98	5.0	<PQL	5.48	110	5.76	115	100	109

ICV Initial Calibration Verification
CCV Continuing Calibration Verification
*= Continuing Calibration Was Above Method Control Limits, Data Was Not Impacted.
Blk is a Blank
Blk Spk is a Blank Spike
Blk Spk Dup is a Blank Spike Duplicate
RPD is Relative Percent Difference

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9808-5705-1

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	MS Conc. UNITS	MS %Rec	MSD Conc. UNITS	MSD %Rec	RPD	BLK (ppb)	CCV %Rec
1,1-Dichloroethylene	EPA 624	8/28/98	10	11.3	113	11.1	111	2	<PQL	
Benzene	EPA 624	8/28/98	10	10.8	108	10.2	102	6	<PQL	
Trichloroethylene	EPA 624	8/28/98	10	10.6	106	9.93	99	7	<PQL	
Toluene	EPA 624	8/28/98	10	10.5	105	9.91	99	6	<PQL	
Chlorobenzene	EPA 624	8/28/98	10	10.6	106	10.3	103	3	<PQL	
Chloromethane	EPA 624	8/28/98	10						<PQL	147
Vinylchloride	EPA 624	8/28/98	10						<PQL	104
1,1-Dichloroethylene	EPA 624	8/28/98	10						<PQL	106
1,1-Dichloroethane	EPA 624	8/28/98	10						<PQL	104
Chloroform	EPA 624	8/28/98	10						<PQL	105
1,2-Dichloropropane	EPA 624	8/28/98	10						<PQL	98.1
Toluene	EPA 624	8/28/98	10						<PQL	98.8
Chlorobenzene	EPA 624	8/28/98	10						<PQL	102
Ethylbenzene	EPA 624	8/28/98	10						<PQL	107
Bromoform	EPA 624	8/28/98	10						<PQL	104
1,1,2,2-Tetrachloroethane	EPA 624	8/28/98	10						<PQL	113

CCV = Continuing Calibration Verification.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

Data Checksheet

Site	IB08
Municipality	PHOENIX
Sample Date	SEPT 22, 1998

Date Received	Nov 2, 1998

Laboratory Used	Bolin
Laboratory Contact	Stephanie 942-8220
FCD Sample ID Number	PHX4G / PHX4 (Composite)
Lab Sample ID Number	9809-06589-001, -002
Laboratory Invoice Number	46498

Initial Review Complete	yes	Date	11-9-98
Lab Contacted	No	Date	—
Lab Review Complete	—	Date	—
Second Review Complete	—	Date	—
Additional Review Necessary	—		

Comments

Data Validation Table Complete	yes	Date	11-12-98
Data Entered Into Database	yes	Date	11-9-98

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 9/22/98
Reported: 10/14/98
Invoice No: 046498

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9809-06589-001
Sample ID: PHX4G (IBW)

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Biochemical Oxygen Demand	EPA 405.1	26.	mg/L	1.0	9/23/98
Dissolved Oxygen	EPA 360.1	7.03	mg/L	0.01	9/23/98
Fecal Coliform	SM 9221D	2,400.	MPN/100ml		9/22/98
Fecal Streptococcus	SM 9230B	90,000.	MPN/100ml		9/22/98
Oil & Grease	EPA 413.1	<5.0	mg/L	5.0	9/24/98
Carbon tetrachloride	EPA 624	ND	ug/L	20	9/28/98
Bromomethane	EPA 624	ND	ug/L	50	9/28/98
Benzene	EPA 624	ND	ug/L	20	9/28/98
trans-1,3-Dichloropropene	EPA 624	ND	ug/L	20	9/28/98
trans 1,2-Dichloroethylene	EPA 624	ND	ug/L	20	9/28/98
cis 1,3-Dichloropropene	EPA 624	ND	ug/L	20	9/28/98
2-Chloroethylvinyl ether	EPA 624	ND	ug/L	20	9/28/98
1,4-Dichlorobenzene	EPA 624	ND	ug/L	20	9/28/98
1,3-Dichlorobenzene	EPA 624	ND	ug/L	20	9/28/98
1,2-Dichloropropane	EPA 624	ND	ug/L	20	9/28/98
1,2-Dichloroethane	EPA 624	ND	ug/L	20	9/28/98
1,2-Dichlorobenzene	EPA 624	ND	ug/L	20	9/28/98
1,1-Dichloroethylene	EPA 624	ND	ug/L	20	9/28/98
1,1-Dichloroethane	EPA 624	ND	ug/L	20	9/28/98
Trichloroethylene (TCE)	EPA 624	ND	ug/L	20	9/28/98
1,1,2-Trichloroethane	EPA 624	ND	ug/L	20	9/28/98
1,1,1-Trichloroethane	EPA 624	ND	ug/L	20	9/28/98
Toluene	EPA 624	ND	ug/L	20	9/28/98
Ethylbenzene	EPA 624	ND	ug/L	20	9/28/98
m,p-Xylenes	EPA 624	ND Y	ug/L	20	9/28/98
o-Xylene	EPA 624	ND Y	ug/L	20	9/28/98
Tetrachloroethylene (PCE)	EPA 624	ND	ug/L	20	9/28/98
1,1,2,2-Tetrachloroethane	EPA 624	ND	ug/L	20	9/28/98
Chloromethane	EPA 624	ND	ug/L	50	9/28/98
Chloroform	EPA 624	ND	ug/L	20	9/28/98
Bromodichloromethane	EPA 624	ND	ug/L	20	9/28/98
Bromoform	EPA 624	ND	ug/L	20	9/28/98

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Matrix: Storm Water
Sample No: 9809-06589-001

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chlorobenzene	EPA 624	ND	ug/L	20	9/28/98
Chloroethane	EPA 624	ND	ug/L	50	9/28/98
Dichloromethane	EPA 624	ND	ug/L	50	9/28/98
Trichlorofluoromethane	EPA 624	ND	ug/L	50	9/28/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	50	9/28/98
Vinyl Chloride	EPA 624	ND	ug/L	50	9/28/98
Dibromochloromethane	EPA 624	ND	ug/L	20	9/28/98
Total Trihalomethanes	EPA 624	ND	ug/L	20	9/28/98
Acrolein	EPA 624	ND T,Y	ug/L	500	9/28/98
Acrylonitrile	EPA 624	ND Y	ug/L	100	9/28/98
Surrogates:	EPA 624				9/28/98
***Pentafluorobenzene	EPA 624	74.	% Recovery		9/28/98
***1,2-dichloroethane-d4	EPA 624	79.	% Recovery		9/28/98
***4-bromofluorobenzene	EPA 624	85.	% Recovery		9/28/98
***1,2-dichlorobenzene-d4	EPA 624	94.	% Recovery		9/28/98
Acetone	EPA 624	ND Y,C	ug/L	250	9/28/98
2-Butanone (MEK)	EPA 624	ND Y,C	ug/L	100	9/28/98
Carbon disulfide	EPA 624	ND Y	ug/L	100	9/28/98
2-Hexanone (MBK)	EPA 624	ND Y,C	ug/L	100	9/28/98
Styrene	EPA 624	ND Y	ug/L	20	9/28/98
Total Xylenes	EPA 624	ND Y	ug/L	20	9/28/98
Trichlorotrifluoroethane	EPA 624	ND Y	ug/L	20	9/28/98
cis 1,2-Dichloroethylene	EPA 624	ND Y	ug/L	20	9/28/98
m,p-Xylenes	EPA 624	ND Y	ug/L	20	9/28/98
o-Xylene	EPA 624	ND Y	ug/L	20	9/28/98
Dichlorodifluoromethane	EPA 624	ND Y	ug/L	50	9/28/98

For EPA 624, the sample was diluted due to matrix interferences.
T = Result based on a Tentatively Identified Compound search.
Y = Compound not listed in cited method.

S. Kaufman

Project Manager
ADHS License No.: AZ0004

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Maricopa County Flood Control
Environmental Branch
2801 West Durango
Phoenix, AZ 85009
Attn: Dave Gardner

Received: 9/22/98
Reported: 10/14/98
Invoice No: 046498

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9809-06589-002
Sample ID: PHX4 (IBW)

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
pH	EPA 150.1	7.0	Std Unit		9/22/98
Chemical Oxygen Demand	EPA 410.4	208.	mg/L	20.	10/01/98
Chloride	SM 4500 Cl-B	5.	mg/L	5.0	9/23/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	10/02/98
Total Dissolved Solids	SM 2540C	144.	mg/L	1.	9/23/98
Solids, Total Suspended	EPA 160.2	181.	mg/L	1.	9/23/98
Nitrogen as Ammonia	EPA 350.2	0.29	mg/L	0.03	9/23/98
Nitrogen as Nitrite	EPA 300.0	<0.1	mg/L	0.1	9/24/98
Nitrate plus Nitrite	CALCULATION	0.63	mg/L	0.05	9/28/98
Organic Nitrogen	CALCULATION	0.61	mg/L		10/13/98
Total Kjeldahl Nitrogen	EPA 351.3	0.9	mg/L	0.5	9/25/98
Phosphorus, Dissolved	EPA 365.3	0.37	mg/L	0.05	10/06/98
P as Orthophosphate	SM 4500 PE	<0.05	mg/L	0.05	9/23/98
Total Organic Carbon	SM 5310C	33.	mg/L	0.2	9/28/98
Total Alkalinity (as CaCO3)	SM 2320B	31.	mg/L	2.	9/24/98
Sulfate, Dissolved	EPA 300.0	13.0	mg/L	5.0	9/25/98
Phenolics, Total	EPA 420.1	<0.0050	mg/L	0.0050	10/08/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	9/23/98
Nitrogen, Total	CALCULATION	1.53	mg/L	0.5	9/28/98
WW Metals Digestion for ICP	EPA 200.7				9/25/98
DW/WW metals digestion-AA	SM 3030E				9/25/98
Antimony	SM 3113B	<0.005	mg/L	0.005	10/02/98
Arsenic	SM 3113B	<0.005	mg/L	0.005	9/28/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	9/28/98
Calcium	EPA 200.7	20.	mg/L	1.	9/28/98
Copper	EPA 200.7	0.029	mg/L	0.015	9/30/98
Lead	SM 3113B	0.016	mg/L	0.005	9/30/98
Magnesium	EPA 200.7	4.	mg/L	1.	9/28/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	9/24/98
Selenium	SM 3113B	<0.005	mg/L	0.005	10/05/98
Silver	EPA 200.7	<0.04	mg/L	0.04	9/28/98
Hardness, Total (Ca & Mg)	SM 2340B	66	mg/L	7.	9/28/98

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9809-06589-002

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Zinc	EPA 200.7	0.22	mg/L	0.02	9/30/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	9/30/98
Cadmium	EPA 213.2	0.00058	mg/L	0.0005	10/06/98
Chromium	EPA 218.2	0.0061	mg/L	0.001	10/02/98
Nickel	EPA 249.2	0.010	mg/L	0.001	10/02/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	10/02/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	9/27/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	9/24/98
Copper, Dissolved	EPA 200.7	0.018	mg/L	0.015	9/23/98
Lead, Dissolved	EPA 200.9	0.014	mg/L	0.005	9/23/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	9/24/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	9/29/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	9/24/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	9/30/98
Zinc, Dissolved	EPA 200.7	0.19	mg/L	0.02	9/23/98
Cadmium, Dissolved	EPA 213.2	<0.0005	mg/L	0.0005	10/01/98
Chromium, Dissolved	EPA 218.2	0.0019	mg/L	0.001	10/02/98
Nickel, Dissolved	EPA 249.2	0.0099	mg/L	0.001	10/02/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	10	10/06/98
Phenol	EPA 625	ND	ug/L	10	10/06/98
Aniline	EPA 625	ND	ug/L	10	10/06/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	20	10/06/98
2-Chlorophenol	EPA 625	ND	ug/L	20	10/06/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	10	10/06/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	10	10/06/98
Benzyl alcohol	EPA 625	ND	ug/L	20	10/06/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	10	10/06/98
2-Methylphenol	EPA 625	ND	ug/L	10	10/06/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	20	10/06/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	10	10/06/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	10	10/06/98
Hexachloroethane	EPA 625	ND L	ug/L	20	10/06/98
Nitrobenzene	EPA 625	ND	ug/L	20	10/06/98
Isophorone	EPA 625	ND	ug/L	20	10/06/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	20	10/06/98
Benzoic acid	EPA 625	ND	ug/L	100	10/06/98
2-Nitrophenol	EPA 625	ND	ug/L	20	10/06/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	20	10/06/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	20	10/06/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	10	10/06/98
Naphthalene	EPA 625	ND	ug/L	10	10/06/98
Hexachlorobutadiene	EPA 625	ND	ug/L	10	10/06/98

Bolin Laboratories Inc.

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(602) 942 8220 • FAX (602) 942 1050

Matrix: Storm Water
Sample No: 9809-06589-002

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
4-Chloroaniline	EPA 625	ND	ug/L	10	10/06/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	10	10/06/98
2-Methylnaphthalene	EPA 625	ND	ug/L	10	10/06/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	10	10/06/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	10	10/06/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	10	10/06/98
2-Chloronaphthalene	EPA 625	ND	ug/L	10	10/06/98
2-Nitroaniline	EPA 625	ND	ug/L	10	10/06/98
Dimethyl Phthalate	EPA 625	ND	ug/L	10	10/06/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	10	10/06/98
Acenaphthylene	EPA 625	ND	ug/L	20	10/06/98
3-Nitroaniline	EPA 625	ND	ug/L	10	10/06/98
Acenaphthene	EPA 625	ND	ug/L	10	10/06/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	40	10/06/98
4-Nitrophenol	EPA 625	ND	ug/L	10	10/06/98
Dibenzofuran	EPA 625	ND	ug/L	10	10/06/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	10	10/06/98
Diethyl Phthalate	EPA 625	ND	ug/L	10	10/06/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	20	10/06/98
Fluorene	EPA 625	ND	ug/L	10	10/06/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	20	10/06/98
4-Nitroaniline	EPA 625	ND	ug/L	10	10/06/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	10	10/06/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	10	10/06/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	10	10/06/98
Hexachlorobenzene	EPA 625	ND	ug/L	20	10/06/98
Pentachlorophenol	EPA 625	ND	ug/L	20	10/06/98
Phenanthrene	EPA 625	ND	ug/L	10	10/06/98
Anthracene	EPA 625	ND	ug/L	10	10/06/98
Di-n-butylphthalate	EPA 625	ND	ug/L	10	10/06/98
Fluoranthene	EPA 625	ND	ug/L	10	10/06/98
Benzidine	EPA 625	ND	ug/L	40	10/06/98
Pyrene	EPA 625	ND	ug/L	10	10/06/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	10	10/06/98
Bis(2-ethylhexyl)phthalate	EPA 625	ND	ug/L	20	10/06/98
Benzo (a) anthracene	EPA 625	ND	ug/L	10	10/06/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	10	10/06/98
Chrysene	EPA 625	ND	ug/L	10	10/06/98
Di-n-octylphthalate	EPA 625	ND	ug/L	10	10/06/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	10	10/06/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	10	10/06/98
Benzo (a) pyrene	EPA 625	ND	ug/L	10	10/06/98

Bolin Laboratories Inc.

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(602) 942 8220 • FAX (602) 942 1050

Matrix: Storm Water
Sample No: 9809-06589-002

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	10	10/06/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	10	10/06/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	10	10/06/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	20	10/06/98
Extraction	EPA 625				9/23/98
Surrogate:	EPA 625				10/06/98
***d5-Phenol	EPA 625	30	% Recovery		10/06/98
***2-Fluorophenol	EPA 625	41	% Recovery		10/06/98
***d5-Nitrobenzene	EPA 625	74	% Recovery		10/06/98
***2-Fluorobiphenyl	EPA 625	75	% Recovery		10/06/98
***2,4,6-Tribromophenol	EPA 625	87	% Recovery		10/06/98
***d14-Terphenyl	EPA 625	83	% Recovery		10/06/98
Nitrate plus Nitrite	SM 4500 NO3E	0.63	mg/L	0.05	9/25/98
Nitrogen as Nitrate	CALCULATION	0.63	mg/L	0.05	9/28/98
P as Total Phosphate	EPA 365.3	4.86 D1	mg/L	1	10/05/98
Total Phosphate	CALCULATION		mg/L	0.15	10/05/98
4,4'-DDD	EPA 608	ND	ug/L	1.0	10/07/98
4,4'-DDE	EPA 608	ND	ug/L	1.0	10/07/98
4,4'-DDT	EPA 608	ND C	ug/L	2.0	10/07/98
Aldrin	EPA 608	ND	ug/L	1.0	10/07/98
alpha-BHC	EPA 608	ND	ug/L	1.0	10/07/98
Chlordane	EPA 608	ND	ug/L	1.0	10/07/98
delta-BHC	EPA 608	ND	ug/L	1.0	10/07/98
Dieldrin	EPA 608	ND	ug/L	1.0	10/07/98
Endosulfan I	EPA 608	ND	ug/L	1.0	10/07/98
Endosulfan II	EPA 608	ND	ug/L	1.0	10/07/98
Endosulfan Sulfate	EPA 608	ND	ug/L	1.0	10/07/98
Endrin	EPA 608	ND C	ug/L	1.0	10/07/98
Endrin Aldehyde	EPA 608	ND	ug/L	1.0	10/07/98
Heptachlor	EPA 608	ND C	ug/L	1.0	10/07/98
Heptachlor Epoxide	EPA 608	ND	ug/L	1.0	10/07/98
Lindane (gamma BHC)	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1016	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1221	EPA 608	ND	ug/L	10	10/07/98
PCB 1232	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1242	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1248	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1254	EPA 608	ND	ug/L	1.0	10/07/98
PCB 1260	EPA 608	ND	ug/L	1.0	10/07/98
Toxaphene	EPA 608	ND	ug/L	1.0	10/07/98
beta-BHC	EPA 608	ND	ug/L	1.0	10/07/98
Extraction	EPA 608				9/29/98

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9809-06589-002

Time Sampled: 8:00
Date Sampled: 9/22/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Surrogate:	EPA 608				10/07/98
* * *Dibutylchlorendate	EPA 608	110	% Recovery		10/07/98

C = Continuing Calibration was above method control limits. Data was not impacted.
D1 = Sample was diluted due to high concentration of target analyte.
L = The Laboratory Fortified Blank Spike was outside the laboratory acceptance limits. The Laboratory Fortified Blank Spike duplicate was acceptable. The data may have been impacted but is considered valid.
T = Result based on a Tentatively Identified Compound search.
For EPA 625, sample was diluted x2 due to matrix interferences.
* = 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions. This compound was calibrated as azobenzene.

Total & Dissolved Cd, Cr & Ni analyzed by BC Labs, Bakersfield CA, #AZ0345.
Ammonia analyzed by Aquatic Consulting, Tempe AZ. #AZ0003.
Phenol analyzed by McKenzie Labs, Phoenix AZ, #AZ0034.

S Kaufman

Project Manager
ADHS License No.: AZ0004

AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106
P.O. Box 1510
Tempe, Arizona 85281
Phone: (602) 921-8044 • FAX: (602) 921-0049

Lic. No. AZ0003

QUALITY CONTROL REPORT

PARAMETER:	NH3	**UNITS:**	mg/L
METHOD NO.:	350.2	**ANALYST:**	SLM
ANALYSIS DATE:	09/23/98	**PREPARED BY:**	BS

INTERNAL QUALITY CONTROL SAMPLE

Theoretical Value	Analytical Value	% Recovery
1.00	0.96	96

DUPLICATE SAMPLE DATA

Lab I.D.	Result 1	Result 2	RPD
BD-09129	0.05	0.04	22.2
BD-09168	0.73	0.69	5.6

SPIKED SAMPLE DATA

Lab I.D.	Sample Result	Spike Result	Amount Spiked	% Recovery
BD-09129	0.05	0.95	1.00	90
BD-09168	0.71	1.62	1.00	91

Reagent Blank 0.05

File No. QC-NH3-9129

BC LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Preparation & Analysis Information)

BOLIN LABORATORIES
17631 N. 25TH AVE.
PHOENIX, AZ 85023
STEPHANIE KAUFMAN

Date of Report: 10/23/98
Sample Matrix: DIGESTATE

Samples Affected: 98-11309-1

Constituents	Preparation Method	Preparation Date	Preparation Technician	Analytical Method	Run Date	Analyst
Dissolved Cadmium	EPA-600-4-79-02	09/02/98	BOLIN	EPA-213.2	10/01/98	MRM
Dissolved Chromium	EPA-600-4-79-02	09/02/98	BOLIN	EPA-218.2	10/02/98	MRM
Dissolved Nickel	EPA-600-4-79-02	09/02/98	BOLIN	EPA-249.2	10/02/98	MRM
Total Cadmium	EPA-3020	09/25/98	BOLIN	EPA-213.2	10/06/98	KAS
Total Chromium	EPA-3020	09/25/98	BOLIN	EPA-218.2	10/02/98	MRM
Total Nickel	EPA-3020	09/25/98	BOLIN	EPA-249.2	10/02/98	MRM

Quality Control Officer

Anthony Bonanno

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BC LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Instrumental & Blank Parameters)

BOLIN LABORATORIES
17631 N. 25TH AVE.
PHOENIX, AZ 85023
STEPHANIE KAUFMAN

Date of Report: 10/23/98
Sample Matrix: DIGESTATE

Samples Affected: 98-11309-1

Constituents	ICV % Found	CCV % Found Before	CCV % Found After	% Found Control Limits	CCB Readings Before	CCB Readings After	Units	Method Blank Readings	Units
Dissolved Cadmium	98.	98.	101.	90 - 110	< 0.5	< 0.5	µg/L	< 0.5	µg/L
Dissolved Chromium	104.	103.	110.	90 - 110	< 1.	< 1.	µg/L	< 1.	µg/L
Dissolved Nickel	103.	102.	104.	90 - 110	< 1.0	< 1.0	µg/L	< 1.0	µg/L
Total Cadmium	105.	107.	102.	90 - 110	< 0.5	< 0.5	µg/L	< 0.5	µg/L
Total Chromium	104.	103.	110.	90 - 110	< 1.	< 1.	µg/L	< 1.	µg/L
Total Nickel	103.	102.	104.	90 - 110	< 1.0	< 1.0	µg/L	< 1.0	µg/L

ICV = Initial Calibration Verification; CCV = Continuing Calibration Verification
CCB = Continuing Calibration Blank

Quality Control Officer

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BC LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

BOLIN LABORATORIES
17631 N. 25TH AVE.
PHOENIX, AZ 85023
STEPHANIE KAUFMAN

Date of Report: 10/23/98
Sample Matrix: DIGESTATE

Samples Affected: 98-11309-1

Constituents	QC Sample ID	Sample Result	Sample Duplicate	MS Result	MSD Result	MS Spike Level	MSD Spike Level	Units	Sample R.P.D.	Spike R.P.D.	Precision Control Limits	MS % Rec	MSD % Rec	Accuracy Control Limits
Dissolved Cadmium	DISS-11287-1	< 0.5	< 0.5	2.716	2.763	2.400	2.400	µg/L	<PQL	2.	20	103.	104.	85 - 115
Dissolved Chromium	DISS-11309-1-X	1.940	1.720	21.84	20.68	20.00	20.00	µg/L	<PQL	5.	20	100.	94.	85 - 115
Dissolved Nickel	TAD-11309-1	10.02	9.240	32.25	32.79	24.00	24.00	µg/L	<PQL	2.	20	89.	91.	85 - 115
Total Cadmium	DISS-11407-1	< 0.5	< 0.5	2.904	2.867	2.400	2.400	µg/L	<PQL	1.	20	110.	108.	85 - 115
Total Chromium	DISS-11309-1-X	1.940	1.720	21.84	20.68	20.00	20.00	µg/L	<PQL	5.	20	100.	94.	85 - 115
Total Nickel	TAD-11309-1	10.02	9.240	32.25	32.79	24.00	24.00	µg/L	<PQL	2.	20	89.	91.	85 - 115

MS = Matrix Spike; MSD = Matrix Spike Duplicate; RPD = Relative Percent Difference

Prepared QC was not submitted by Bolin Labs.

Quality Control Officer

Anthony Bonanno

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BC LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT - LEVEL III
(Laboratory Control Sample)

BOLIN LABORATORIES
17631 N. 25TH AVE.
PHOENIX, AZ 85023
STEPHANIE KAUFMAN

Date of Report: 10/23/98
Sample Matrix: DIGESTATE

Samples Affected: 98-11309-1

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Cadmium	LCSW	2.386	2.5	µg/L	95.	85 - 115
Dissolved Chromium	LCSW	9.820	10.	µg/L	98.	85 - 115
Dissolved Nickel	LCSW	24.66	25.	µg/L	99.	85 - 115
Total Cadmium	LCSW	2.534	2.5	µg/L	101.	85 - 115
Total Chromium	LCSW	9.820	10.	µg/L	98.	85 - 115
Total Nickel	LCSW	24.66	25.	µg/L	99.	85 - 115

Quality Control Officer

Anthony Bonanno

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Bolin Laboratories Inc.

17631 N. 25th Avenue • Phoenix, Arizona 85023
(602) 942 8220 • FAX (602) 942 1050

Quality Control Data Report

Client: Maricpa County Flood Control
Bolin Sample ID: 9809-6589 total

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	9/28/98	0.2	88	88	<PQL	97	101
Calcium	EPA 200.7	9/28/98	30	92	90	<PQL	99	102
Copper	EPA 200.7	9/30/98	1	96	95	<PQL	101	100
Magnesium	EPA 200.7	9/28/98	30	89	89	<PQL	95	98
Silver	EPA 200.7	9/28/98	0.5	97	96	<PQL	100	100
Zinc	EPA 200.7	9/30/98	1	102	102	<PQL	102	105
Antimony	EPA 200.9/SM 3113B	10/2/98	0.020	95	100	<PQL	110	95
Arsenic	EPA 200.9/SM 3113B	9/28/98	0.020	80	100	<PQL	95	90
Lead	EPA 200.9/SM 3113B	9/30/98	0.020	110	95	<PQL	105	110
Selenium	EPA 200.9/SM 3113B	10/5/98	0.020	85	90	<PQL	100	100
Thallium	EPA 200.9/SM 3113B	9/30/98	0.020	110	110	<PQL	98	97
Mercury	EPA 245.1	9/24/98	0.005	108	106	<PQL	104	106

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricpa County Flood Control
Bolin Sample ID: 9809-6589 diss

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	9/24/98	0.2	99	97	<PQL	99	94
Copper	EPA 200.7	9/23/98	1	90	90	<PQL	95	90
Silver	EPA 200.7	9/24/98	0.5	76	81	<PQL	92	90
Zinc	EPA 200.7	9/23/98	1	93	95	<PQL	103	92
Antimony	EPA 200.9/SM 3113B	10/2/98	0.020	75	110	<PQL	95	100
Arsenic	EPA 200.9/SM 3113B	9/27/98	0.020	110	125	<PQL	110	90
Lead	EPA 200.9/SM 3113B	9/23/98	0.020	120	125	<PQL	100	105
Selenium	EPA 200.9/SM 3113B	9/29/98	0.020	100	115	<PQL	105	110
Thallium	EPA 200.9/SM 3113B	9/30/98	0.020	90	102	<PQL	97	91
Mercury	EPA 245.1	9/24/98	0.005	108	106	<PQL	104	106

MI Matrix Interference
ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 6589

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BS Conc.	BS %Rec	BSD Conc.	BSD %Rec	RPD	BLK (ppb)	CCV %Rec
N-nitrosodimethylamine	EPA 625	10/6/98	100	41	41	48	48	16	<PQL	
Phenol	EPA 625	10/6/98	200	53	27	55	28	4	<PQL	
Aniline	EPA 625	10/6/98	100	72	72	73	73	1	<PQL	
Bis(2-chloroethyl)ether	EPA 625	10/6/98	100	85	85	92	92	8	<PQL	
2-Chlorophenol	EPA 625	10/6/98	200	122	61	124	62	2	<PQL	
1,3-Dichlorobenzene	EPA 625	10/6/98	100	42	42	51	51	19	<PQL	
1,4-Dichlorobenzene	EPA 625	10/6/98	100	43	43	52	52	19	<PQL	
Benzyl Alcohol	EPA 625	10/6/98	100	51	51	64	64	23	<PQL	
1,2-Dichlorobenzene	EPA 625	10/6/98	100	49	49	55	55	12	<PQL	
2-methylphenol	EPA 625	10/6/98	200	118	59	121	61	3	<PQL	
Bis(2-chloroisopropyl)ether	EPA 625	10/6/98	100	70	70	75	75	7	<PQL	
4-methylphenol	EPA 625	10/6/98	200	109	55	118	59	8	<PQL	
N-Nitrosodi-n-propylamine	EPA 625	10/6/98	100	79	79	82	82	4	<PQL	
Hexachloroethane	EPA 625	10/6/98	100	34	34	49	49	36	<PQL	
Benzoic Acid	EPA 625	10/6/98	100	44	44	39	39	12	<PQL	
Nitrobenzene	EPA 625	10/6/98	100	83	83	76	76	9	<PQL	
Isophorone	EPA 625	10/6/98	100	89	89	85	85	5	<PQL	
2-Nitrophenol	EPA 625	10/6/98	200	155	78	151	76	3	<PQL	
2,4-Dimethylphenol	EPA 625	10/6/98	200	177	89	169	85	5	<PQL	
bis(2-Chloroethoxy)methane	EPA 625	10/6/98	100	80	80	77	77	4	<PQL	
2,4-Dichlorophenol	EPA 625	10/6/98	200	165	83	152	76	8	<PQL	
1,2,4-Trichlorobenzene	EPA 625	10/6/98	100	57	57	60	60	5	<PQL	
Naphthalene	EPA 625	10/6/98	100	70	70	66	66	6	<PQL	
4-chloroaniline	EPA 625	10/6/98	100	87	87	84	84	4	<PQL	
Hexachlorobutadiene	EPA 625	10/6/98	100	37	37	53	53	36	<PQL	
2-methylnaphthalene	EPA 625	10/6/98	100	76	76	74	74	3	<PQL	
4-Chloro-3-methylphenol	EPA 625	10/6/98	200	180	90	167	84	7	<PQL	
Hexachlorocyclopentadiene	EPA 625	10/6/98	100	40	40	46	46	14	<PQL	
2,4,6-Trichlorophenol	EPA 625	10/6/98	200	188	94	175	88	7	<PQL	
2,4,5-Trichlorophenol	EPA 625	10/6/98	200	188	94	175	88	7	<PQL	
2-Chloronaphthalene	EPA 625	10/6/98	100	73	73	73	73	0	<PQL	
2-nitroaniline	EPA 625	10/6/98	100	85	85	80	80	6	<PQL	

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Acenaphthylene	EPA 625	10/6/98	100	79	79	72	72	9	<PQL	
Dimethyl phthalate	EPA 625	10/6/98	100	85	85	81	81	5	<PQL	
2,6-Dinitrotoluene	EPA 625	10/6/98	100	86	86	78	78	10	<PQL	
Acenaphthene	EPA 625	10/6/98	100	77	77	75	75	3	<PQL	
3-nitroaniline	EPA 625	10/6/98	100	87	87	82	82	6	<PQL	
2,4-Dinitrophenol	EPA 625	10/6/98	200	197	99	186	93	6	<PQL	
Dibenzofuran	EPA 625	10/6/98	100	82	82	74	74	10	<PQL	
2,4-Dinitrotoluene	EPA 625	10/6/98	100	91	91	88	88	3	<PQL	
4-Nitrophenol	EPA 625	10/6/98	200	79	40	79	40	0	<PQL	
Fluorene	EPA 625	10/6/98	100	80	80	78	78	3	<PQL	
Diethylphthalate	EPA 625	10/6/98	100	80	80	80	80	0	<PQL	
4-Chlorophenylphenylether	EPA 625	10/6/98	100	81	81	73	73	10	<PQL	
4-nitroaniline	EPA 625	10/6/98	100	89	89	82	82	8	<PQL	
2-Methyl-4,6-dinitrophenol	EPA 625	10/6/98	200	189	95	171	86	10	<PQL	
Diphenylamine	EPA 625	10/6/98	100	86	86	81	81	6	<PQL	
Azobenzene	EPA 625	10/6/98	100	84	84	84	84	0	<PQL	
4-Bromophenoxybenzene	EPA 625	10/6/98	100	78	78	78	78	0	<PQL	
Hexachlorobenzene	EPA 625	10/6/98	100	77	77	73	73	5	<PQL	
Pentachlorophenol	EPA 625	10/6/98	200	176	88	174	87	1	<PQL	
Phenanthrene	EPA 625	10/6/98	100	84	84	85	85	1	<PQL	
Anthracene	EPA 625	10/6/98	100	90	90	84	84	7	<PQL	
Di-n-butylphthalate	EPA 625	10/6/98	100	84	84	78	78	7	<PQL	
Fluoranthene	EPA 625	10/6/98	100	81	81	75	75	8	<PQL	
Pyrene	EPA 625	10/6/98	100	97	97	96	96	1	<PQL	
Benzidine	EPA 625	10/6/98	100	179	179	200	200	11	<PQL	
Butylbenzylphthalate	EPA 625	10/6/98	100	98	98	95	95	3	<PQL	
Benzo(a)anthracene	EPA 625	10/6/98	100	91	91	87	87	4	<PQL	
Chrysene	EPA 625	10/6/98	100	96	96	89	89	8	<PQL	
3,3'-Dichlorobenzidine	EPA 625	10/6/98	100	48	48	41	41	16	<PQL	
bis(2-Ethylhexyl)phthalate	EPA 625	10/6/98	100	92	92	89	89	3	<PQL	
Di-n-octylphthalate	EPA 625	10/6/98	100	92	92	93	93	1	<PQL	
Benzo(b)fluoranthene	EPA 625	10/6/98	100	88	88	89	89	1	<PQL	
Benzo(k)fluoranthene	EPA 625	10/6/98	100	85	85	87	87	2	<PQL	
Benzo(a)pyrene	EPA 625	10/6/98	100	88	88	86	86	2	<PQL	
Indeno(1,2,3-cd)pyrene	EPA 625	10/6/98	100	80	80	81	81	1	<PQL	
Dibenzo(a,h)anthracene	EPA 625	10/6/98	100	89	89	84	84	6	<PQL	
Benzo(g,h,I)perylene	EPA 625	10/6/98	100	89	89	86	86	3	<PQL	

CCV = Continuing Calibration Verification.
MS = Matrix Spike.

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MSD = Matrix Spike Duplicate.
RPD = Relative Percent Difference.
BLK = Blank.

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9809-6589-1

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	MS Conc. UNITS	MS %Rec	MSD Conc. UNITS	MSD %Rec	RPD	BLK (ppb)	CCV %Rec
1,1-Dichloroethylene	EPA 624	9/28/98	10	10.2	102	9.8	98	4	<PQL	
Benzene	EPA 624	9/28/98	10	9.9	99	9.6	96	3	<PQL	
Trichloroethylene	EPA 624	9/28/98	10	9.8	98	9.5	95	3	<PQL	
Toluene	EPA 624	9/28/98	10	9.7	97	9.4	94	3	<PQL	
Chlorobenzene	EPA 624	9/28/98	10	10.8	108	10.6	106	2	<PQL	
Chloromethane	EPA 624	9/28/98	10						<PQL	82.7
Vinylchloride	EPA 624	9/28/98	10						<PQL	93.9
1,1-Dichloroethylene	EPA 624	9/28/98	10						<PQL	96.1
1,1-Dichloroethane	EPA 624	9/28/98	10						<PQL	94.8
Chloroform	EPA 624	9/28/98	10						<PQL	94.6
1,2-Dichloropropane	EPA 624	9/28/98	10						<PQL	94.9
Toluene	EPA 624	9/28/98	10						<PQL	92.5
Chlorobenzene	EPA 624	9/28/98	10						<PQL	103
Ethylbenzene	EPA 624	9/28/98	10						<PQL	101
Bromoform	EPA 624	9/28/98	10						<PQL	115
1,1,2,2-Tetrachloroethane	EPA 624	9/28/98	10						<PQL	110

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Quality Control Data Report

Client: Maricopa County Flood Control District
Bolin Sample ID: 9809-6589

Analyte	Method	Date Analyzed	Spk Conc.	MS %Rec	MSD %Rec	RPD	Blk	ICV %Rec	CCV %Rec
Biological Oxygen Demand	405.1	9/23/98	N/A	N/A	N/A	#####	<1.0	82	-
Oil and Grease	413.1	9/24/98	N/A	N/A	N/A	#####	<5.0	99	-
Chemical Oxygen Demand	410.4	10/1/98	30	96	98	2.062	<20	98	100
Chloride	SM 4500 Cl-B	9/23/98	20	108	100	7.692	<5.0	100	106
Total Dissolved Solids	SM 2540C	9/23/98	N/A	N/A	N/A	#####	<1.0	99	-
Total Suspended Solids	160.2	9/23/98	N/A	N/A	N/A	#####	<1.0	96	-
Nitrite	SM 4500 NO2 B	9/24/98	0.1	90	87	3.39	0.01	90	91
Nitrate	SM 4500 NO3 E	9/25/98	0.565	93	94	1.07	0.05	92	95
Total Phosphorous	365.3	10/5/98	0.1	84	81	3.636	<0.05	90	93
Disolved Phosphorous	365.2	10/6/98	0.1	98	91	7.407	<0.05	90	92
Ortho-Phosphorous	365.2	9/23/98	0.1	98	93	5.236	<0.05	94	98
Total Organic Carbons	SM 5310C	9/28/98	5	93	94	1.07	0.14	108	104
Alkalinity	SM 2320B	9/24/98	100	93	93	0	<2.0	92	-
Hexavalent Chromium	SM 3500	9/23/98	0.2	91	93	2.174	<0.01	96	95
Total Kjeldahl Nitrogen	351.4	9/25/98	2	81	84	3.636	<0.5	106	98
Dissolved Sulfate	300	9/25/98	20	98	98	0	<5.0	101	100

ICV Initial Calibration Verification
CCV Continuing Calibration Verification
MS is Matrix Spike
MSD is a Matrix Spike Duplicate.
RPD is Relative Percent Difference
BLK is a Blank

Bolin Laboratories Inc.

☐ 17631 N. 25th Ave. Phoenix AZ 85023
(602) 942-8220 • Fax(602) 942-1050

☐ 440 N. Alvernon, Suite 103, Tucson AZ 85711
(520) 327-1234 • Fax(502) 327-0518

CHAIN OF CUSTODY RECORD

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Laboratory Sample No. 9809-6579

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax
FLOOD CONTROL	2801 W DURANGO	PHOENIX	AZ	85009	5068401	5064601

Project Name	Project Number	Contact	P.O. No.	Fax Results ☐	QC Report ☐	Special Detection Limits ☐
PHX NPDES		D. GARDNER				

SAMPLE TYPE CODES

DW=Drinking Water, S=Soil/Solid, WW=Wastewater, T=Travel Blank, SW=Surface Water, F=Food, GW=Groundwater, G=Sludge, O=Other_____

TURN AROUND TIME

☐ Standard 10 - 15 Day
☐ Other_____

★ Laboratory Authorization Required for Rush ★

REQUESTED ANALYSES

Client's Sample Identification	Date	Time	Sample Location	Composite	Grab	Sample Type	Compliance	No. of Containers	pH ✓ (Bolin Use Only)	Attachment	BOD	DO	EC	E3	624	CLG	Nitrate Total Nitrite	COD	PHOSPHEN	TSS	TDS	PH	HK	Cl	F	NO3	NH3	608	1613	Cyanide	TDC	Phenol				LAB NO.
PHX4G	9/22/98	0800	IBW		X	SW		8		X	X	X																							-01
PHX4	9/22/98	0800	"	X		SW		6		X			X	X	X	X	X	X	X	X	X	X													-02
Travel Blank						T						X																							-03

Comments / Special Instructions: QC report from all sub contract labs

SAMPLE CONDITION UPON RECEIPT

No. of Containers	24
Temperature	On Ice
Custody Seals	Y (N)
Seals Intact	Y N
Preserved	(Y) N

WHITE-LAB YELLOW-LAB PINK-CLIENT

	RELINQUISHED BY		SAMPLES RECEIVED BY	
①	Signature: David Gardner	Date: 9/22/98	Signature: [illegible]	Date: 9/24/98
	Printed Name: DAVID GARDNER	Time: 1052	Printed Name: [illegible]	Time: 10[illegible]
②	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time
③	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time

Records

Water Quality Sampler Maintenance Log Sheet

SITE	PHX SR03 35th Ave / Salt River		
DATE	7/9/98	TIME	910
SERVICED BY	DL CK		
MODEL NUMBER	1350 800	SERIAL NUMBER	H07925068

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE 12.8 volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 26 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Temporary replacement of Phx equipment w/ 800 samplers until 900's are returned from factory.

Date: 07/08/1998

Water Quality Sampler Maintenance Log Sheet

SITE	PHX SR-45 SALT / 40th Street		
DATE	7/9/98	TIME	1330
SERVICED BY	CFK / DEG		
MODEL NUMBER	8008L 1350	SERIAL NUMBER	H0195 1340

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE 12.4 volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SOLAR PANEL replaced w/new	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 19 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Increased intake tubing to 23' to get vol calibrated

Date: 07/08/1998

Water Quality Sampler Maintenance Log Sheet

SITE	PHOENIX SR-49		
DATE	7/9/98	TIME	1045
SERVICED BY	CK / DC		
MODEL NUMBER	800 (1350)	SERIAL NUMBER	H019511341

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE 13.1 volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 21 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR 6.00"	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME 455 mL	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

Date: 07/08/1998

Water Quality Sampler Maintenance Log Sheet

SITE	Atk 4 IB-08		
DATE	7/9/98	TIME	1200
SERVICED BY	CK / DL		
MODEL NUMBER	800SL (1350)	SERIAL NUMBER	H07925065

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE 12.4 volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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	unk
SAMPLE INTAKE TUBING 21 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	checked
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR ~~2.25"~~	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR 2.25"	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	450 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Reptile in storm pipe

Date: 07/08/1998

Storm Event Log Sheet

SITE:	PHX SR-45

DATE:	7/22/98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) (NO)

IF NO, WHAT WAS PROBLEM(S):

incorrect sampler bottom, ~~g~~ bottles 1-4 in base instead of bottles - collected manual grabs / composite bottles 3 & 4.

STATISTICS FOR STORM:

Storm Start Time	0922		
Effluent pH			
Effluent Temperature			
Total Storm Rainfall	1.83	Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

grab samples taken 1100A 7/22/98

Storm Event Log Sheet

SITE:	PHX SR-49

DATE:	8-17-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO NOT SURE

IF NO, WHAT WAS PROBLEM(S):

possible PT malfunction

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH	8.4		
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Water Quality Sampler Maintenance Log Sheet

SITE	Pitx 1B-08		
DATE	8-17-98	TIME	9:00 A
SERVICED BY	DEG		
MODEL NUMBER	1350 800 SL.	SERIAL NUMBER	H07925065

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 see below	YES NO	GOOD FAIR POOR	YES NO	YES NO	need to check
SAMPLE INTAKE TUBING feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS missed 2 storms (8-15 & 8-17) due to lack of rain. Need to check raingage.

Water Quality Sampler Maintenance Log Sheet

SITE	PAK 1B08		
DATE	8-18-98	TIME	1130 - 1210
SERVICED BY	DG CK		
MODEL NUMBER	1350	SERIAL NUMBER	H07925065

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS unclogged raingage

Water Quality Sampler Maintenance Log Sheet

SITE	PHX SR-49		
DATE	8-20-98	TIME	1430
SERVICED BY	DG CIC		
MODEL NUMBER	900 MA	SERIAL NUMBER	— 8930 F0088147

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 21 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	2.75"
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	460
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS HWM = 1.6'

current level = 0.25' (2.75")

may need to replace PT

Water Quality Sampler Maintenance Log Sheet

SITE	SALT 67th Ave		
DATE	8-25-98	TIME	13:00 —
SERVICED BY	DG / CK		
MODEL NUMBER	900 MAX	SERIAL NUMBER	F0088147

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Replaced depth sensor & calibrated

Storm Event Log Sheet

SITE:	PHX SR-03

DATE:	Event date 9-4-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WAS PROBLEM(S):

storm was not sufficient to produce a full bottle set and it was not a representative event rain < 0.20".

STATISTICS FOR STORM:

Storm Start Time	0824		
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Storm Event Log Sheet

SITE:	PHK SR-45

DATE:	9-6-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WAS PROBLEM(S):

sampled – need to check rainfall

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Storm Event Log Sheet

SITE:	SR-49

DATE:	9-6-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WAS PROBLEM(S):

insufficient stormflow for complete sample

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Water Quality Sampler Maintenance Log Sheet

SITE	PPIX IB-08		
DATE	9-9-98	TIME	1330 - 1430
SERVICED BY	CK DG		
MODEL NUMBER	800 SL	SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Raingage failed to operate during last event? Cleaned & lubricated parts

Tipping bucket bushings worn

Raingage needs

Storm Event Log Sheet

SITE:	PHX SR-03

DATE:	9-11-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES (NO)

IF NO, WHAT WAS PROBLEM(S):

showed 0.27" rain
no runoff, area around
sampler dry - probably rainfall
due to ~~fam~~ high winds

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Storm Event Log Sheet

SITE:	PHX SR-49

DATE:	9-11-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WAS PROBLEM(S):

ALERT GAGE had 0.43" precip
Sampler gage 0.01 - funnel
was disturbed.
RUN/STOP button doesn't work

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Water Quality Sampler Maintenance Log Sheet

SITE	PHX TB-08		
DATE	9-16-98	TIME	10:30 - 12:00
SERVICED BY	CK		
MODEL NUMBER	1350	SERIAL NUMBER	H07925065

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE 12.19 volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	
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 21 feet in length	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	2.5"
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	450 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

RAINGAGE A1289 #2149 P/N

changed N = 0.020

changed flow interval to 1500 mL

Storm Event Log Sheet

SITE:	PHX SR-03

DATE:	9-22-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WAS PROBLEM(S):

Insufficient rain/runoff

STATISTICS FOR STORM:

0.06" rain @ 0715

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall	0.	Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Storm Event Log Sheet

SITE:	Pitk SR-45

DATE:	9-22-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WAS PROBLEM(S):

Not enough rain - Runoff

0.06" @ 7:30A

STATISTICS FOR STORM:

Storm Start Time			
Effluent pH			
Effluent Temperature			
Total Storm Rainfall		Accumulation Time	
Rainfall Sampled		Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

Storm Event Log Sheet

SITE:	PHX IB-08

DATE:	9-22-98

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WAS PROBLEM(S):

STATISTICS FOR STORM:

Storm Start Time	438 A		
Effluent pH	7.8		
Effluent Temperature	26.4 °C		
Total Storm Rainfall	0.10	Accumulation Time	
Rainfall Sampled	0.10	Accumulation Time	
Total Storm Runoff		Accumulation Time	
Runoff Sampled		Accumulation Time	
Max. 5-min intensity			
Days since last rain			

D.O. = 6.42
Cond = 0.186

X