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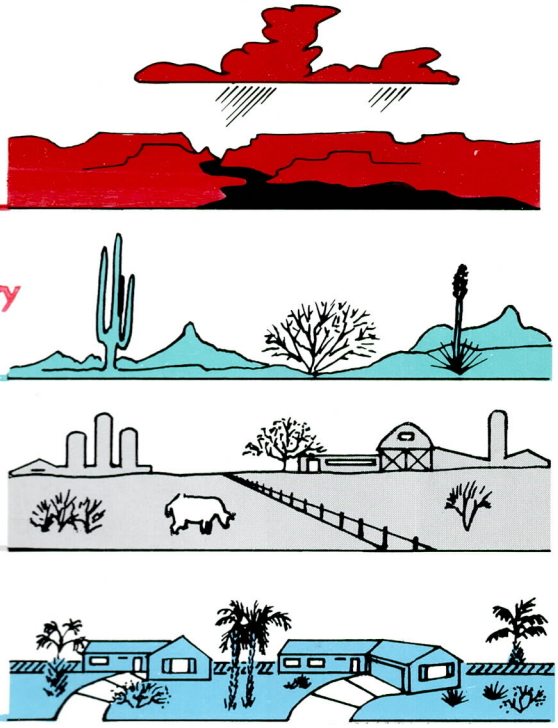

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Stormwater Quality Report
City of Phoenix, Arizona

Second Quarter

February 11, 1999

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Stormwater Quality Report

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Second Quarter, Sampling Year 1999

October 1, 1998 through December 31, 1998

For

City of Phoenix, Arizona

February 11, 1999

Stormwater Quality Report
City of Phoenix, Arizona

Second Quarter

February 11, 1999

Introduction

This report details the NPDES stormwater sampling activities during the fall of 1998. There were few opportunities for sample collection during the period.

Rainfall occurred in two distinct periods. The first was in late October and the second was in late November / early December. A minor event occurred in mid-December.

The format of this report is identical to the one issued in November 1998 for the summer season.

Summary of Sampled Storm Events

This is a summary of sampled storm events in the second quarter of the 1999 sample year, which is October 1 through December 31, 1998. 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 October 25 - 26, 1998

This storm event produced rainfall over most of Phoenix. Rainfall totals ranged from 0.28 inches to 0.52 inches. The following table shows rainfall totals for each sampler site.

Storm of October 25, 1998

SITE	RAINFALL (inches)	SAMPLES COLLECTED
SR03	0.28	YES
SR30	0.48	NO (1)
SR45	0.52	YES
SR49	0.20	NO (2)
IB08	0.40	YES
ACDC43	0.28	NO (1)

(1) USGS did not sample.
(2) Not a representative event.

Equipment at all sites seemed to work well. There were no significant problems. USGS did not sample during this event for reasons explained at the end of this section.

Grab samples were not taken at any site because the runoff had decreased substantially when visited. This was due mainly to a failure of the District's ALERT system. The system was receiving erroneous data and did not alert the pagers that a storm was in progress. The system was checked via telephone, but the erroneous data indicated that the storm was not 'representative'.

Storm of December 15, 1998

The storm of December 15, 1998 was isolated, and affected only certain parts of the city. Rainfall ranged from zero to 0.20 inches. Below is a table of rainfall data.

Storm of December 15, 1998

SITE	RAINFALL (inches)	SAMPLES COLLECTED
SR03	0.00	NO
SR30	0.00	NO
SR45	0.20	YES
SR49	0.08	NO
IB08	0.08	NO
ACDC43	0.14	NO

Only SR-45 at 40th Street and the Salt River sampled during this event. The equipment seemed to operate properly. Grab samples were not taken at this site because the flow was too low to collect a representative sample.

Other Storm Events Not Sampled

There were a few other rain events that occurred during the fall. 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
ACDC43	10/25/98	0.28	USGS did not sample this event, IGA expired.
SR30	10/25/98	0.48	USGS did not sample this event, IGA expired.
SR49	10/25/98	0.20	Duration too short.
IB08	10/30/98	0.51	Duration too short.
SR03	10/30/98	0.47	Duration too short.
SR30	10/30/98	0.47	USGS did not sample this event, IGA expired.
SR45	10/30/98	0.24	Duration too short.
IB08	11/28/98	0.20	Duration too short.
ACDC43	12/2/98	0.25	USGS did not sample this event, IGA expired.
IB08	12/2/98	0.24	Duration too short.
IB08	12/6/98	0.24	Duration too short.
SR03	12/6/98	0.24	Duration too short.
SR30	12/6/98	0.22	USGS did not sample this event, IGA expired.
SR45	12/6/98	0.20	Duration too short.

Maintenance Summary

This section details maintenance activities and problems during the first quarter. In general, no modems or autodialers worked at any of the five sites. Slow 2400-baud modems and the autodialer are no longer available, or are very difficult to obtain.

SR03 – Salt River at 35th Avenue

Equipment at this site appeared to work correctly during the entire fall season. The equipment at this site was serviced on November 5, 1998. The Sigma 800SL samplers were replaced with the Sigma 900MAX samplers that were sent to the factory for service and upgrade. The intake tubing was replaced with 3/8-inch Teflon tubing and the pumped volume was calibrated. The pressure transducer was also calibrated. The pump and distributor tubing was not replaced because the equipment was recently serviced at the factory by American Sigma who replaced both pieces of tubing. The raingauge was checked with no problems found.

SR30 – Salt River at 27th Avenue

The USGS operates this site. They did not use the equipment during the fall season. No equipment problems were reported.

SR45 – Salt River at 40th Street

Equipment at this site appeared to work correctly during the entire fall season. The equipment at this site was serviced on November 5, 1998. The Sigma 800SL samplers were replaced with the Sigma 900MAX samplers that were sent to the factory for service and upgrade. The intake tubing was replaced with 3/8-inch Teflon tubing and the pumped volume was calibrated. The pressure transducer was also calibrated. The pump and distributor tubing was not replaced because the equipment was recently serviced at the factory by American Sigma who replaced both pieces of tubing. The raingauge was checked with no problems found.

SR49 – Salt River at 67th Avenue

Equipment at this site appeared to work correctly during the entire fall season. The equipment at this site was serviced on November 5, 1998. The Sigma 800SL samplers were replaced with the Sigma 900MAX samplers that were sent to the factory for service and upgrade. The intake tubing was replaced with 3/8-inch Teflon tubing and the pumped volume was calibrated. The pressure transducer was also calibrated. The pump and distributor tubing was not replaced because the equipment was recently serviced at the factory by American Sigma who

replaced both pieces of tubing. The raingauge was checked with no problems found.

IB08 – 40th Street at Indian Bend Wash

Equipment at this site appeared to work correctly during the entire fall season. The equipment was serviced twice during the fall period. The equipment was serviced on November 5, 1998. The intake tubing was not replaced at this time because connectors for Teflon tubing were not available. The pressure transducer and the pump volume were calibrated. The Sigma 900MAX sampler was installed and calibrated as described above. The raingauge was serviced. On January 6, 1999, Teflon tubing was installed at this site and both the pressure transducer and the pump volume were calibrated. The pump and distributor tubing was not replaced because the equipment was recently serviced at the factory by American Sigma who replaced both pieces of tubing.

ACDC43 – ACDC near Peoria and 43rd Avenues

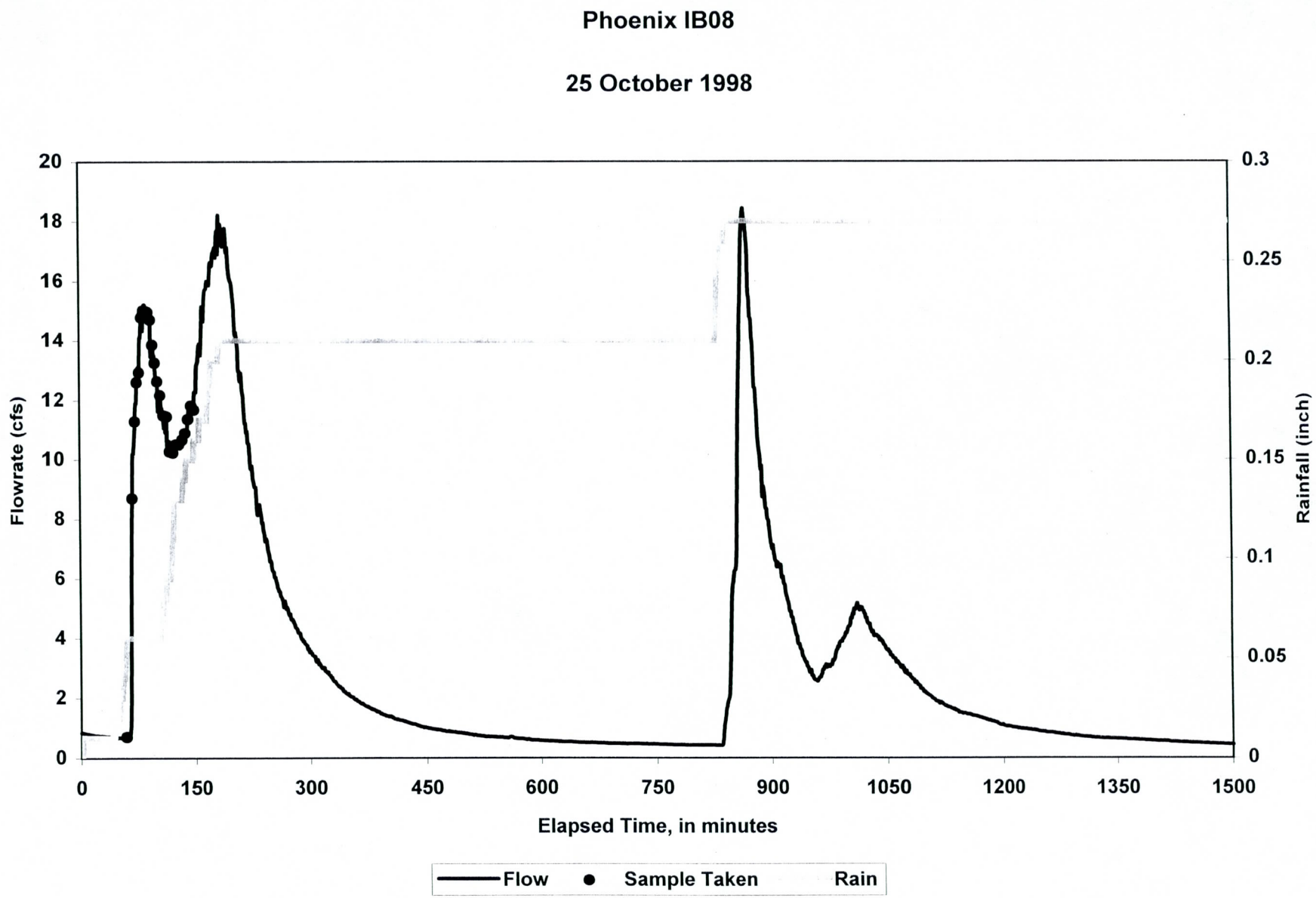
The USGS operates this site. They did not use the equipment during the fall season. No equipment problems were reported.

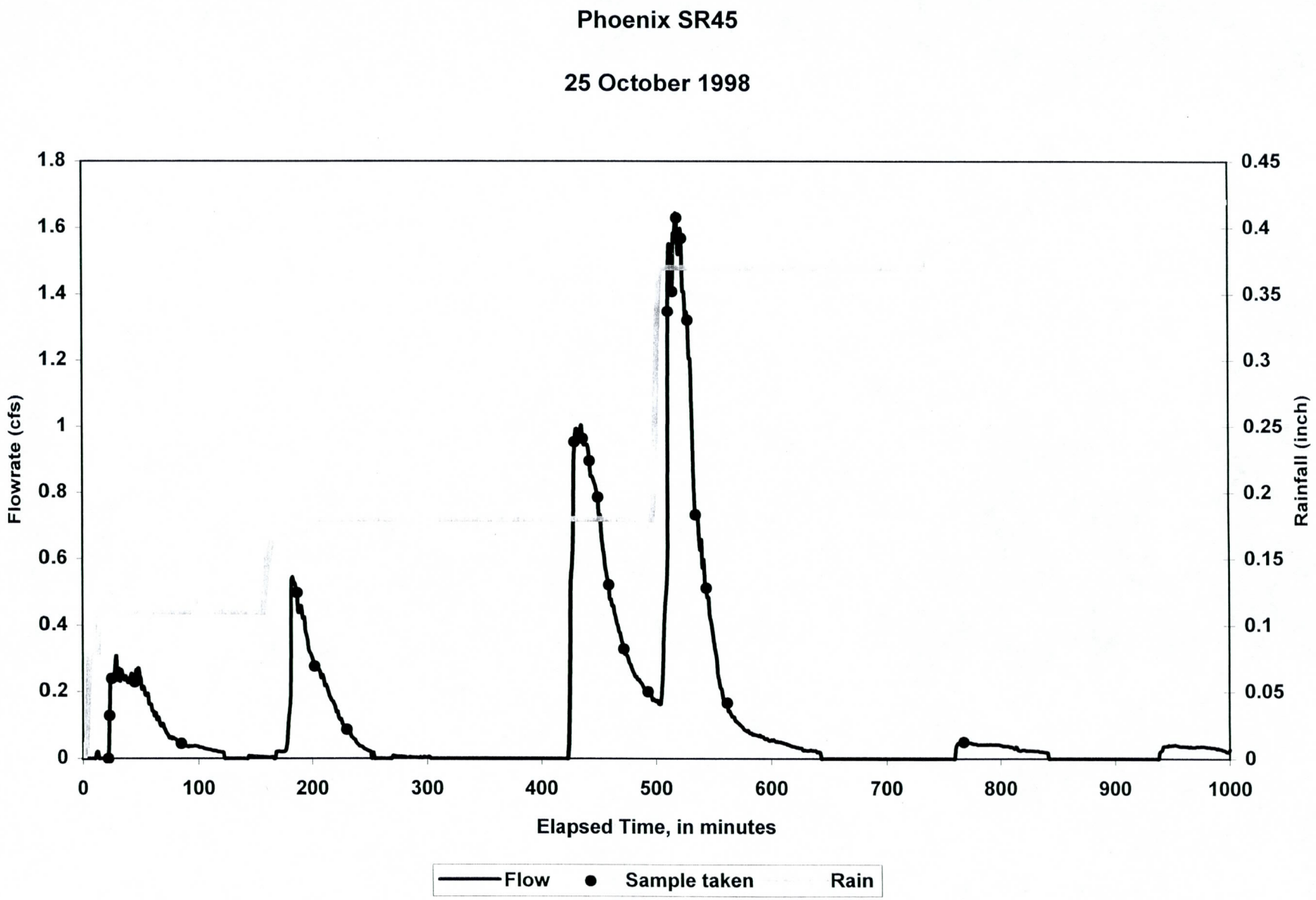
Data from Fall 1998

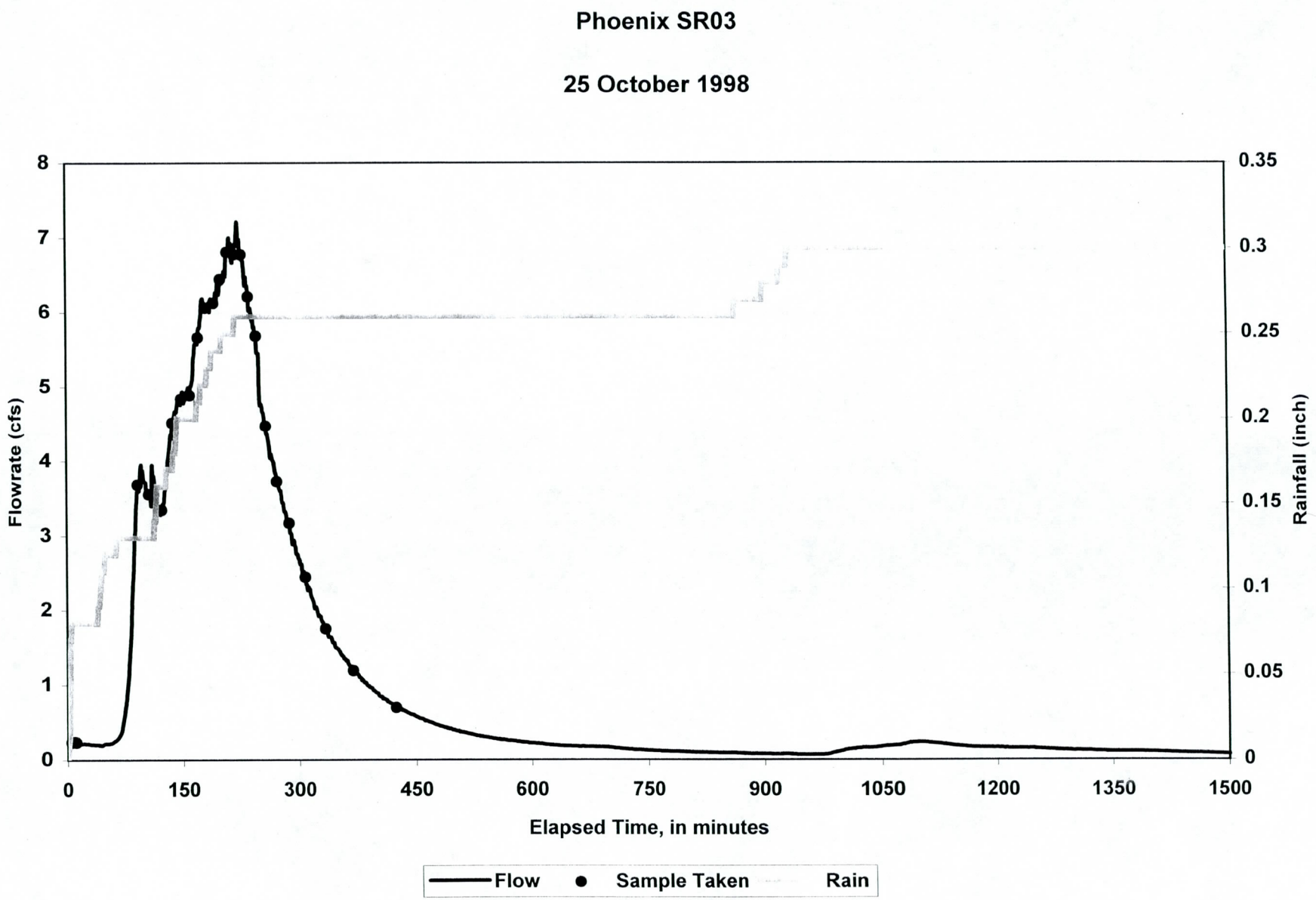
The remainder of this report contains data. The following data are included:

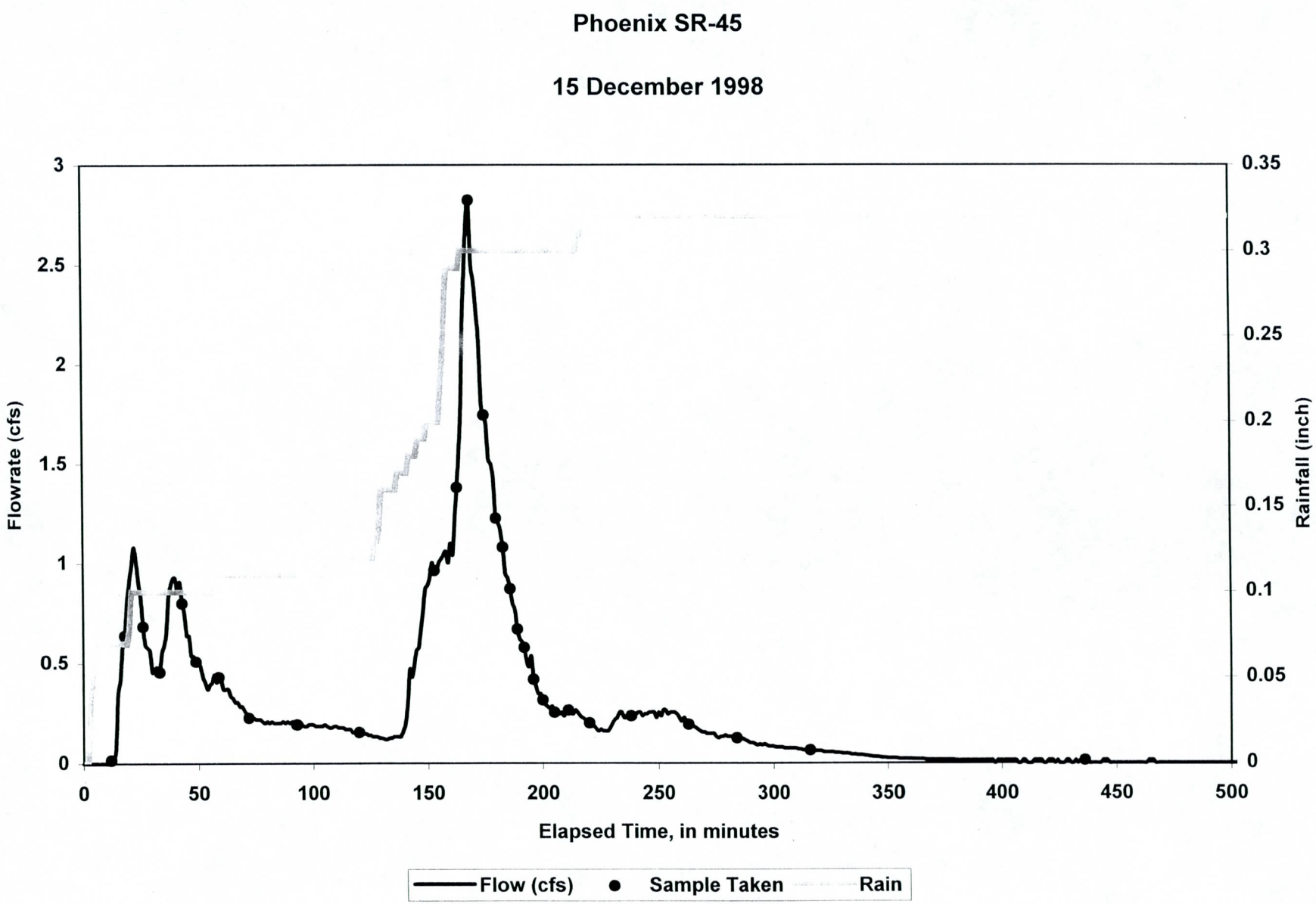
- Storm Hydrographs
- Rainfall Data from each monitoring site
- Printed tables of data from the summer. Included are required data for Phoenix's NPDES permit.
- Validation Tables. These data show a validation of the data on an individual basis for each storm event. One table is included for each site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

Storm Hydrographs


Phoenix IB08
25 October 1998
Flowrate (cfs)
Rainfall (inch)
Elapsed Time, in minutes
0
2
4
6
8
10
12
14
16
18
20
0
0.05
0.1
0.15
0.2
0.25
0.3
0
150
300
450
600
750
900
1050
1200
1350
1500
Flow
Sample Taken
Rain


Phoenix SR45
25 October 1998
Flowrate (cfs)
Rainfall (inch)
Elapsed Time, in minutes
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
100
200
300
400
500
600
700
800
900
1000
Flow
Sample taken
Rain


Phoenix SR03
25 October 1998
Flowrate (cfs)
Rainfall (inch)
Elapsed Time, in minutes
0
1
2
3
4
5
6
7
8
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
150
300
450
600
750
900
1050
1200
1350
1500
Flow
Sample Taken
Rain


Phoenix SR-45
15 December 1998
Flowrate (cfs)
Rainfall (inch)
Elapsed Time, in minutes
0
0.5
1
1.5
2
2.5
3
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0
50
100
150
200
250
300
350
400
450
500
Flow (cfs)
Sample Taken
Rain

Rainfall Data

Gauge Rainfall

Gage Number: ACDC43 (Data from sampler gauge and 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						0.25						
3												
4			0.12									
5	0.08											
6	0.87					0.31						
7	0.16	0.12										
8												
9												
10												
11			0.43									
12												
13												
14												
15						0.14						
16												
17	0.04											
18												
19												
20												
21				0.06								
22												
23												
24		0.04										
25				0.28								
26												
27												
28					0.06							
29												
30				0.18								
31												
Month Total	1.15	0.16	0.55	0.52	0.06	0.70	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						0.24						
3												
4			0.04									
5	0.04											
6	0.91		0.04			0.24						
7	0.55											
8	0.04											
9												
10												
11			0.08									
12												
13												
14												
15		0.39				0.08						
16												
17	0.28	0.12										
18												
19												
20												
21												
22			0.11									
23												
24												
25				0.28								
26				0.12								
27												
28					0.20							
29												
30				0.51								
31												
Month Total	1.82	0.51	0.27	0.91	0.20	0.56	0.00	0.00	0.00	0.00	0.00	0.00

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						0.04						
3												
4			0.11									
5	0.06											
6	0.26		0.24			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				0.24								
26				0.04								
27												
28					0.08							
29												
30				0.47								
31												
Month Total	0.99	0.06	0.62	0.75	0.08	0.28	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number: SR30 (Data from gauge and 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						0.03						
3												
4			0.11									
5	0.06											
6	0.26		0.24			0.22						
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				0.48								
26												
27												
28					0.13							
29												
30				0.47								
31												
Month Total	0.99	0.06	0.62	0.95	0.13	0.25	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	SR45
Location	Salt River at 40th Street (FCD ALERT gauge 4515)

	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			0.20						
7												
8												
9												
10												
11												
12												
13												
14												
15		0.59				0.20						
16												
17		0.39										
18	0.08											
19												
20	1.83											
21												
22												
23												
24												
25				0.28								
26				0.24								
27												
28					0.12							
29												
30				0.24								
31												
Month Total	2.58	1.02	0.34	0.76	0.12	0.40	0.00	0.00	0.00	0.00	0.00	0.00

Gauge Rainfall

Gage Number	SR49
Location	Salt River at 67th Avenue (FCD ALERT gauge 4755)

	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						0.04						
2												
3												
4			0.16									
5	0.12											
6			0.51			0.28						
7	0.04											
8												
9												
10												
11			0.44									
12		0.12										
13												
14												
15						0.08						
16												
17	0.04	0.19										
18												
19	0.08											
20												
21												
22												
23												
24												
25				0.16								
26				0.04								
27												
28					0.04							
29												
30				0.24								
31												
Month Total	0.28	0.31	1.11	0.44	0.04	0.40	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	gage down	gage down	gage down						
2	gage down	gage down	gage down	gage down	gage down	gage down						
3	gage down	gage down	gage down	gage down	gage down	gage down						
4	gage down	gage down	gage down	gage down	gage down	gage down						
5	gage down	gage down	gage down	gage down	gage down	gage down						
6	gage down	gage down	gage down	gage down	gage down	gage down						
7	gage down	gage down	gage down	gage down	gage down	gage down						
8	gage down	gage down	gage down	gage down	gage down	gage down						
9	gage down	gage down	gage down	gage down	gage down	gage down						
10	gage down	gage down	gage down	gage down	gage down	gage down						
11	gage down	gage down	gage down	gage down	gage down	gage down						
12	gage down	gage down	gage down	gage down	gage down	gage down						
13	gage down	gage down	gage down	gage down	gage down	gage down						
14	gage down	gage down	gage down	gage down	gage down	gage down						
15	gage down	gage down	gage down	gage down	gage down	gage down						
16	gage down	gage down	gage down	gage down	gage down	gage down						
17	gage down	gage down	gage down	gage down	gage down	gage down						
18	gage down	gage down	gage down	gage down	gage down	gage down						
19	gage down	gage down	gage down	gage down	gage down	gage down						
20	gage down	gage down	gage down	gage down	gage down	gage down						
21	gage down	gage down	gage down	gage down	gage down	gage down						
22	gage down	gage down	gage down	gage down	gage down	gage down						
23	gage down	gage down	gage down	gage down	gage down	gage down						
24	gage down	gage down	gage down	gage down	gage down	gage down						
25	gage down	gage down	gage down	gage down	gage down	gage down						
26	gage down	gage down	gage down	gage down	gage down	gage down						
27	gage down	gage down	gage down	gage down	gage down	gage down						
28	gage down	gage down	gage down	gage down	gage down	gage down						
29	gage down	gage down	gage down	gage down	gage down	gage down						
30	gage down	gage down	gage down	gage down	gage down	gage down						
31	gage down	gage down	gage down	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						0.08						
3												
4			0.08									
5												
6	0.43		0.39									
7	0.04					0.12						
8						0.12						
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				0.47								
26				1.06								
27												
28		0.04			0.39							
29					0.04							
30				0.04								
31												
Month Total	0.55	1.82	0.75	1.57	0.43	0.32	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						0.16						
3												
4			0.08									
5												
6	0.20		0.31			0.28						
7												
8												
9												
10												
11			0.04									
12												
13												
14												
15		0.16				0.24						
16												
17		0.20										
18												
19												
20												
21												
22	0.43		0.24									
23												
24												
25				0.12								
26				0.35								
27												
28		0.04			0.31							
29					0.04							
30				0.20								
31												
Month Total	0.63	0.40	0.67	0.67	0.35	0.68	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						0.31						
3												
4												
5			0.04									
6	0.12		0.12			0.28						
7												
8												
9					0.35							
10												
11			0.04									
12												
13												
14												
15												
16												
17		0.12										
18												
19												
20												
21												
22			0.12									
23												
24												
25				0.24								
26				0.12								
27												
28		0.12			0.16							
29												
30				0.31								
31												
Month Total	0.12	0.24	0.32	0.67	0.51	0.59	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						0.24						
3												
4			0.04									
5												
6	0.43		0.04			0.24						
7	0.20											
8	0.08											
9					0.08							
10												
11			0.08									
12												
13												
14												
15		0.39				0.08						
16												
17	0.28	0.12										
18												
19												
20												
21												
22			0.04									
23												
24												
25				0.28								
26				0.12								
27												
28					0.20							
29												
30				0.51								
31												
Month Total	0.99	0.51	0.20	0.91	0.28	0.56	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						0.28						
3												
4			0.04									
5												
6	0.63	0.04				0.24						
7	0.28											
8												
9			0.04									
10												
11			0.08									
12												
13												
14												
15		0.12				0.20						
16												
17	0.24	0.04										
18												
19												
20												
21												
22			0.12									
23												
24		0.08										
25				0.35								
26				0.24								
27												
28					0.16							
29					0.08							
30				0.59								
31												
Month Total	1.15	0.28	0.28	1.18	0.24	0.72	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						0.04						
3												
4	0.04		0.12									
5	0.39											
6	0.43		0.47			0.24						
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				0.24								
26				0.04								
27												
28					0.08							
29												
30				0.47								
31												
Month Total	1.10	0.04	0.87	0.75	0.08	0.28	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						0.08						
3												
4			0.04									
5	0.04											
6	0.67		0.12			0.28						
7	0.04											
8												
9												
10												
11			0.16									
12												
13												
14												
15		0.08				0.28						
16			0.04									
17		0.08										
18	0.08											
19	0.39											
20												
21												
22	0.43		0.16									
23												
24												
25				0.12								
26				0.08								
27												
28					0.16							
29												
30				0.16								
31												
Month Total	1.65	0.16	0.52	0.36	0.16	0.64	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						0.04						
3						0.04						
4			0.04									
5	0.04											
6	0.08		0.24			0.24						
7	0.04											
8												
9												
10												
11												
12		0.04										
13												
14												
15		0.24				0.31						
16												
17		0.35										
18												
19	0.24											
20												
21												
22	0.51		0.04									
23												
24												
25				0.24								
26				0.24								
27												
28					0.08							
29					0.08							
30				0.31								
31												
Month Total	0.91	0.63	0.32	0.79	0.16	0.63	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	gage down	gage down	gage down						
2	gage down	gage down	gage down	gage down	gage down	gage down						
3	gage down	gage down	gage down	gage down	gage down	gage down						
4	gage down	gage down	gage down	gage down	gage down	gage down						
5	gage down	gage down	gage down	gage down	gage down	gage down						
6	gage down	gage down	gage down	gage down	gage down	gage down						
7	gage down	gage down	gage down	gage down	gage down	gage down						
8	gage down	gage down	gage down	gage down	gage down	gage down						
9	gage down	gage down	gage down	gage down	gage down	gage down						
10	gage down	gage down	gage down	gage down	gage down	gage down						
11	gage down	gage down	gage down	gage down	gage down	gage down						
12	gage down	gage down	gage down	gage down	gage down	gage down						
13	gage down	gage down	gage down	gage down	gage down	gage down						
14	gage down	gage down	gage down	gage down	gage down	gage down						
15	gage down	gage down	gage down	gage down	gage down	gage down						
16	gage down	gage down	gage down	gage down	gage down	gage down						
17	gage down	gage down	gage down	gage down	gage down	gage down						
18	gage down	gage down	gage down	gage down	gage down	gage down						
19	gage down	gage down	gage down	gage down	gage down	gage down						
20	gage down	gage down	gage down	gage down	gage down	gage down						
21	gage down	gage down	gage down	gage down	gage down	gage down						
22	gage down	gage down	gage down	gage down	gage down	gage down						
23	gage down	gage down	gage down	gage down	gage down	gage down						
24	gage down	gage down	gage down	gage down	gage down	gage down						
25	gage down	gage down	gage down	gage down	gage down	gage down						
26	gage down	gage down	gage down	gage down	gage down	gage down						
27	gage down	gage down	gage down	gage down	gage down	gage down						
28	gage down	gage down	gage down	gage down	gage down	gage down						
29	gage down	gage down	gage down	gage down	gage down	gage down						
30	gage down	gage down	gage down	gage down	gage down	gage down						
31	gage down	gage down	gage down	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						0.08						
3												
4			0.08									
5	0.12											
6	0.20		0.12			0.28						
7	0.35	0.04										
8												
9					0.16							
10												
11			0.24									
12												
13												
14												
15		0.12				0.04						
16												
17		0.08										
18												
19												
20												
21												
22	0.04											
23												
24												
25				0.31								
26				0.24								
27												
28					0.04							
29												
30				0.16								
31												
Month Total	0.71	0.24	0.44	0.71	0.20	0.40	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						0.04						
2					0.04							
3												
4			0.08									
5	0.04											
6	0.71		0.08			0.28						
7	0.04		0.04									
8												
9												
10												
11												
12												
13												
14												
15		0.16				0.16						
16			0.04									
17												
18												
19												
20												
21												
22			0.12									
23			0.04									
24												
25				0.04								
26												
27	0.04			0.04								
28					0.04							
29												
30												
31												
Month Total	0.83	0.16	0.40	0.08	0.08	0.48	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						0.16						
3												
4			0.04									
5												
6	0.43		0.08			0.31						
7	0.08											
8												
9					0.16							
10												
11			0.08									
12												
13												
14												
15		0.63				0.20						
16												
17	0.08	0.12										
18												
19												
20												
21												
22			0.16									
23												
24		0.04										
25				0.16								
26				0.04								
27												
28					0.16							
29												
30				0.39								
31												
Month Total	0.59	0.79	0.36	0.59	0.32	0.67	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						0.20						
3												
4			0.12									
5	0.08											
6	0.87					0.24						
7	0.16	0.12										
8												
9												
10												
11			0.43									
12												
13												
14												
15						0.08						
16												
17	0.04											
18												
19												
20												
21												
22												
23												
24		0.04										
25				0.20								
26				0.24								
27												
28					0.04							
29												
30				0.12								
31												
Month Total	1.15	0.16	0.55	0.56	0.04	0.52	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			0.24						
3												
4			0.12									
5	0.08											
6	1.18		0.04			0.24						
7	0.16	0.35										
8												
9												
10												
11			0.47									
12												
13												
14												
15		0.04				0.12						
16												
17	0.04											
18												
19												
20												
21				0.04								
22			0.12									
23												
24												
25				0.20								
26				0.08								
27												
28					0.12							
29					0.04							
30				0.16								
31												
Month Total	1.46	0.39	0.79	0.48	0.16	0.60	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						0.24						
3												
4			0.12									
5	0.08											
6	1.85					0.28						
7	0.59											
8												
9												
10												
11			0.47									
12												
13												
14												
15		0.12				0.24						
16			0.04									
17	0.04											
18												
19												
20												
21												
22			0.16									
23												
24												
25				0.20								
26				0.20								
27												
28					0.04							
29					0.04							
30				0.08								
31												
Month Total	2.56	0.12	0.79	0.48	0.08	0.76	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						0.20						
3						0.04						
4			0.04									
5	0.04	0.04										
6	0.16					0.16						
7	0.04	0.35										
8												
9												
10												
11			0.08									
12												
13												
14												
15		0.43				0.12						
16												
17		0.08										
18												
19												
20												
21				0.04								
22			0.08									
23												
24												
25				0.20								
26				0.16								
27												
28					0.20							
29					0.04							
30				0.31								
31												
Month Total	0.24	0.90	0.20	0.71	0.24	0.52	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						0.04						
3												
4			0.16									
5	0.16											
6		0.04	0.08			0.24						
7	0.39	0.12										
8												
9			0.24		0.04							
10												
11			0.91									
12												
13												
14												
15						0.08						
16												
17	0.24	0.04										
18												
19												
20												
21				0.08								
22												
23	0.04											
24												
25				0.16								
26				0.04								
27												
28					0.12							
29					0.04							
30				0.08								
31												
Month Total	0.83	0.20	1.39	0.36	0.20	0.36	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						0.16						
3												
4			0.12									
5	0.20											
6			0.08			0.31						
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				0.20								
26				0.43								
27												
28					0.08							
29					0.04							
30				0.24								
31												
Month Total	0.44	0.28	0.83	0.87	0.12	0.47	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						0.24						
3												
4			0.08									
5	0.04											
6	1.14	0.20	0.16			0.24						
7	0.98	0.47										
8												
9												
10												
11			0.59									
12												
13												
14												
15		0.20				0.31						
16												
17												
18												
19												
20												
21												
22			0.08									
23												
24												
25				0.39								
26				0.51								
27												
28					0.08							
29												
30				0.08								
31												
Month Total	2.16	0.87	0.91	0.98	0.08	0.79	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			0.28						
3												
4			0.08									
5												
6	1.34		0.04			0.31						
7	0.31	0.67										
8												
9												
10												
11			0.43									
12												
13												
14												
15		0.83				0.12						
16												
17												
18												
19												
20												
21				0.04								
22			0.16									
23												
24	0.04											
25				0.35								
26				0.12								
27												
28					0.16							
29					0.04							
30				0.39								
31												
Month Total	1.69	1.50	0.79	0.90	0.20	0.71	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						0.28						
3												
4			0.08									
5		0.04										
6	1.77					0.24						
7	0.20	0.28										
8												
9												
10			0.04									
11			0.31									
12												
13												
14												
15						0.16						
16												
17												
18												
19												
20												
21												
22			0.04									
23												
24												
25				0.20								
26				0.04								
27												
28					0.20							
29												
30				0.16								
31												
Month Total	1.97	0.32	0.47	0.40	0.20	0.68	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						0.28						
3												
4			0.08									
5		0.28										
6	0.79	0.31				0.31						
7												
8												
9			0.08									
10												
11			0.47									
12												
13												
14												
15						0.04						
16												
17		0.12										
18												
19												
20												
21												
22	0.16											
23												
24												
25				0.08								
26				0.24								
27												
28					0.12							
29					0.04							
30				0.08								
31												
Month Total	0.95	0.71	0.63	0.40	0.16	0.63	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			0.04						
7	0.04											
8												
9												
10												
11												
12		0.71										
13												
14												
15		0.12				0.16						
16												
17		0.51										
18												
19												
20												
21												
22			0.24									
23												
24												
25				0.08								
26				0.12								
27												
28					0.16							
29												
30				0.04								
31												
Month Total	0.24	1.34	0.48	0.24	0.16	0.20	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			0.16						
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				0.47								
26				0.75								
27												
28					0.16							
29												
30				0.16								
31												
Month Total	1.30	0.63	0.75	1.38	0.16	0.16	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			0.24						
7	0.31											
8												
9			0.04									
10												
11			0.04									
12												
13												
14												
15		0.24				0.12						
16												
17												
18												
19												
20												
21												
22			0.12									
23												
24												
25				0.39								
26				0.28								
27												
28					0.08							
29												
30				0.20								
31												
Month Total	0.74	0.24	0.71	0.87	0.08	0.36	0.00	0.00	0.00	0.00	0.00	0.00

Data Tables

SR-03 (Phoenix)

35th Avenue north of Salt River

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	10/25/1998
Time	1705
Representative Storm Event	N
Agency Collecting Sample	FCD
Agency Analyzing Sample	BOLIN
Drainage Area (acres) (DA)	1855
Impervious Area (acres) (IA)	--
Land Use - Residential	796
Land Use - Commercial	91
Land Use - Industrial	551
Land Use - Undeveloped	225
Sampling Duration (minutes) (DRN)	424
Storm Duration (minutes)	218
Runoff Sampled (cubic feet) (RUN)	74,800
Total Storm Runoff (cubic feet)	88,800
Instantaneous Discharge (cfs)	7.3
Preceeding Dry Period (days) (ANT)	34
Total Storm Rainfall (inch)	0.26
Rainfall Sampled (inch) (TRN)	0.26
Maximum 5-minute rain intensity (MAX5)	0.96
Sample Temperature (deg. C)	4
Effluent Temperature (deg. C)	21
Ambient Temperature (deg. C)	NM
Barometric Pressure (mm Hg)	NM
pH, Effluent (standard units)	7.0
pH, Lab (standard units)	--
Specific Conductance, FIELD (us/cm)	--
Specific Conductance, LAB (us/cm)	--
Oxygen Dissolved (% saturation)	--
Oxygen Dissolved (mg/l)	--
Electrical Conductivity (umhos/cm)	--
BOD5 (mg/l)	--
COD High Level (mg/l)	421
Chloride (mg/l as Cl)	20
Cyanide Total (mg/l as Cn)	<0.01
Fecal Coliform (MPN/100mL)	--
Fecal Streptococci (MPN/100mL)	--
Total Dissolved Solids (mg/l)	230
Total Suspended Solids (mg/l)	408
Nitrogen No2 + No3, Total (mg/l as N)	--
TKN Nitrogen (mg/l as N)	0.6
Nitrogen, Ammonia + Organic, Total (mg/l as N)	--
Nitrogen Nitrate Total (mg/l as N)	--
Nitrogen Nitrite Total (mg/l as N)	0.11
Nitrogen Ammonia Total (mg/l as N)	1.48
Nitrogen Organic Total (mg/l as N)	--
Phosphorous Total (mg/l as P)	0.31
Phosphorous Dissolved (mg/l as P)	0.19
Phosphorous Ortho (mg/l as P)	0.18
Sulfate Dissolved (mg/l)	17
Hexavalent Chromium Total (mg/l)	<0.010

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	10/25/1998
Phenols Total Recoverable (ug/l)	5.7
Oil and Grease Total Recoverable (mg/l)	--
Organic Carbon, Total (mg/l)	41
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)	70
Silica Dissolved (mg/l as SiO2)	--
Hardness (mg/l)	142
Antimony (ug/l as Sb)	<5
Antimony Dissolved (ug/l as Sb)	<4
Arsenic Total (ug/l as As)	14
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)	2.1
Cadmium Dissolved (ug/l as Cd)	0.39
Calcium Dissolved (mg/l as Ca)	--
Chromium Total Recoverable (ug/l as Cr)	25
Chromium Dissolved (ug/l as Cr)	3.2
Cobalt Dissolved (ug/l as Co)	--
Copper, Total Recoverable, (ug/l as Cu)	88
Copper, Dissolved, (ug/l as Cu)	20
Iron, Dissolved, (ug/l as Fe)	--
Lead, Total Recoverable, (ug/l as Pb)	66
Lead, Dissolved, (ug/l as Pb)	18
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)	52
Nickel, Dissolved, (ug/l as Ni)	12
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)	510
Zinc, Dissolved, (ug/l as Zn)	180

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	10/25/1998
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
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)	--
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)	--

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	10/25/1998
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)	--
Methyl Bromide, Total, (ug/l)	--
Methyl Chloride, Total, (ug/l)	--
Parachloro Toluene, Total, (ug/l)	--
Dibromoethane, Total, (ug/l)	--
Acenaphthene, Total, (ug/l)	<25
Acenaphthylene, Total, (ug/l)	<50
Anthracene, Total, (ug/l)	<25
Benzidine, Total, (ug/l)	<50
Benzoic Acid, Total, (ug/l)	<250
Benzo (a) Anthracene, Total, (ug/l)	<25
Benzo (b) Fluoranthene, Total, (ug/l)	<25
Benzo (k) Fluoranthene, Total, (ug/l)	<25
Benzo (ghi) Perylene, Total, (ug/l)	<25
Benzo (a) Pyrene, Total, (ug/l)	<25
Benzyl Alcohol, Total, (ug/l)	<50
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	<50
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	<50
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	<50
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	<50
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	<25
Butyl Benzyl Phthalate, Total, (ug/l)	<25
2-Chloronapthalene, Total, (ug/l)	<25
2-Chlorophenol, Total, (ug/l)	<50
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	<50

Phoenix SR03

Salt River at 35th Avenue

Date of Sampling	10/25/1998
Chrysene, Total, (ug/l)	<25
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	<25
Di-N-Butyl Phthalate, Total, (ug/l)	<25
1,3- Dichlorobenzene, Total, (ug/l)	<25
1,4- Dichlorobenzene, Total, (ug/l)	<25
1,2- Dichlorobenzene, Total, (ug/l)	<25
3,3'- Dichlorobenzidine, Total, (ug/l)	<25
2,4- Dichlorophenol, Total, (ug/l)	<50
Diethyl Phthalate, Total, (ug/l)	<25
2,4- Dimethylphenol, Total, (ug/l)	<50
Dimethyl Phthalate, Total, (ug/l)	<25
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	<50
2,4- Dinitrophenol, Total, (ug/l)	<100
2,4- Dinitrotoluene, Total, (ug/l)	<25
2,6- Dinitrotoluene, Total, (ug/l)	<25
Di-N-Octyl-Phthalate, Total, (ug/l)	<25
Fluoranthene, Total, (ug/l)	<25
Fluorene, Total, (ug/l)	<25
Hexachlorobenzene, Total, (ug/l)	<50
Hexachlorobutadiene, Total, (ug/l)	<25
Hexachlorocyclopentadiene, Total, (ug/l)	<25
Hexachloroethane, Total, (ug/l)	<50
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	<25
Isophorone, Total, (ug/l)	<50
Naphthalene, Total, (ug/l)	<25
Nitrobenzene, Total, (ug/l)	<50
2-Nitrophenol, Total, (ug/l)	<50
4-Nitrophenol, Total, (ug/l)	<25
N-Nitrosodiphenylamine, Total, (ug/l)	<25
N-Nitrosodi-N-Propylamine, Total, (ug/l)	<25
Pentachlorophenol, Total, (ug/l)	<50
Phenanthrene, Total, (ug/l)	<25
Phenol, Total, (ug/l)	<25
Pyrene, Total, (ug/l)	<25
1,2,4-Trichlorobenzene, Total, (ug/l)	<25
2,4,5- Trichlorophenol, Total, (ug/l)	<25
2,4,6- Trichlorophenol, Total, (ug/l)	<25
N-Nitrosodimethylamine, Total, (ug/l)	--
1,2- Diphenylhydrazine, Total, (ug/l)	--
Dichlorodifluoromethane, Total, (ug/l)	--
Parachloro-Meta-Cresol, Total, (ug/l)	--

SR-30 (Phoenix)

Salt River (south bank) at 27th Avenue

Phoenix SR30

27th Avenue at Salt River

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

Phoenix SR30

27th Avenue at Salt River

Date of Sampling	
Phenols Total Recoverable (ug/l)	No Data
Oil and Grease Total Recoverable (mg/l)	No Data
Organic Carbon, Total (mg/l)	No Data
Bicarbonate Whole Field (mg/l as HCo3)	No Data
Bicarbonate Dissolved, Field (mg/l as HCo3)	No Data
Carbonate Water Field (mg/l as Co3)	No Data
Carbonate Water Dissolved, Field, (mg/l as Co3)	No Data
Alkalinity Water Field Total (mg/l as CaCo3)	No Data
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	No Data
Alkalinity LAB (mg/l as CaCo3)	No Data
Silica Dissolved (mg/l as SiO2)	No Data
Hardness (mg/l)	No Data
Antimony (ug/l as Sb)	No Data
Antimony Dissolved (ug/l as Sb)	No Data
Arsenic Total (ug/l as As)	No Data
Arsenic Dissolved (ug/l as As)	No Data
Barium Dissolved (ug/l as Ba)	No Data
Beryllium Total Recoverable (ug/l as Be)	No Data
Beryllium Dissolved (ug/l as Be)	No Data
Cadmium Total Recoverable (ug/l as Cd)	No Data
Cadmium Dissolved (ug/l as Cd)	No Data
Calcium Dissolved (mg/l as Ca)	No Data
Chromium Total Recoverable (ug/l as Cr)	No Data
Chromium Dissolved (ug/l as Cr)	No Data
Cobalt Dissolved (ug/l as Co)	No Data
Copper, Total Recoverable, (ug/l as Cu)	No Data
Copper, Dissolved, (ug/l as Cu)	No Data
Iron, Dissolved, (ug/l as Fe)	No Data
Lead, Total Recoverable, (ug/l as Pb)	No Data
Lead, Dissolved, (ug/l as Pb)	No Data
Lithium, Dissolved, (ug/l as Li)	No Data
Magnesium, Dissolved, (mg/l as Mg)	No Data
Manganese, Dissolved, (ug/l as Mn)	No Data
Mercury, Total Recoverable, (ug/l as Hg)	No Data
Mercury, Dissolved, (ug/l as Hg)	No Data
Molybdenum, Dissolved, (ug/l as Mo)	No Data
Nickel, Total Recoverable, (ug/l as Ni)	No Data
Nickel, Dissolved, (ug/l as Ni)	No Data
Potassium, Dissolved, (mg/l as K)	No Data
Selenium, Total, (ug/l as Se)	No Data
Selenium, Dissolved, (ug/l as Se)	No Data
Silver, Total Recoverable, (ug/l as Ag)	No Data
Silver, Dissolved, (ug/l as Ag)	No Data
Sodium, Dissolved, (mg/l as Na)	No Data
Strontium, Dissolved, (ug/l as Sr)	No Data
Thallium, Total, (ug/l as Tl)	No Data
Thallium, Dissolved, (ug/l as Tl)	No Data
Vanadium, Dissolved, (ug/l as V)	No Data
Zinc, Total Recoverable, (ug/l as Zn)	No Data
Zinc, Dissolved, (ug/l as Zn)	No Data

Phoenix SR30

27th Avenue at Salt River

Date of Sampling	
Diazinon, Total, (ug/l)	No Data
Ethion, Total, (ug/l)	No Data
Malathion, Total, (ug/l)	No Data
Methyl Parathion, Total, (ug/l)	No Data
Parathion, Total, (ug/l)	No Data
Trithion, Total, (ug/l)	No Data
Di-syston, Total, (ug/l)	No Data
Phorate, Total, (ug/l)	No Data
Chlorpyrifos, Total, (ug/l)	No Data
DEF, Total, (ug/l)	No Data
Fonofos(Dy-fonate), WWT, (ug/l)	No Data
Aldrin, Total, (ug/l)	No Data
BHC - ALPHA, (ug/l)	No Data
BHC - Gamma (Lindane), (ug/l)	No Data
BHC - DELTA, (ug/l)	No Data
Aroclor 1016, PCB, Total, (ug/l)	No Data
Aroclor 1221, PCB, Total, (ug/l)	No Data
Aroclor 1232, PCB, Total, (ug/l)	No Data
Aroclor 1242, PCB, Total, (ug/l)	No Data
Aroclor 1248, PCB, Total, (ug/l)	No Data
Aroclor 1254, PCB, Total, (ug/l)	No Data
Aroclor 1260, PCB, Total, (ug/L)	No Data
Chlordane, Total, (ug/l)	No Data
P,P' DDD, Total, (ug/l)	No Data
P,P' DDE, Total, (ug/l)	No Data
P, P' DDT, Total, (ug/l)	No Data
Dieldrin, Total, (ug/l)	No Data
Endo-Sulfan Alpha, Total, (ug/l)	No Data
Endo-Sulfan Beta, Total, (ug/l)	No Data
Endo-Sulfan Sulfate, Total, (ug/l)	No Data
Endrin Aldehyde, Total, (ug/l)	No Data
Endrin, Total, (ug/l)	No Data
Heptachlor, Total, (ug/l)	No Data
Heptachlor Epoxide, Total, (ug/l)	No Data
Toxaphene, Total, (ug/l)	No Data
Methoxychlor, Total, (ug/l)	No Data
Beta Benzene Hexachloride, Total, (ug/l)	No Data
1,1,2,2-Tetrachloroethane, Total, (ug/l)	No Data
1,1,1,2-Tetrachloroethane, Total,(ug/l)	No Data
Tetrachloroethene, PCE, Total, (ug/l)	No Data
1,1,1- Trichloroethane, Total, (ug/l)	No Data
1,1,2- Trichloroethane, Total, (ug/l)	No Data
Trichloroethene, Total, (ug/l)	No Data
1,1- Dichloroethane, Total, (ug/l)	No Data
1,1- Dichloroethene, Total, (ug/l)	No Data
1,2- Dichloroethane, Total, (ug/l)	No Data
1,2- Dichloropropane, Total, (ug/l)	No Data
2- Chloroethylvinyl Ether, Total, (ug/l)	No Data
cis-1,3-Dichloropropene, (ug/l)	No Data
trans-1,2- Dichloroethene, (ug/l)	No Data

Phoenix SR30

27th Avenue at Salt River

Date of Sampling	
trans-1,3- Dichloropropene, (ug/l)	No Data
Benzene, Total, (ug/l)	No Data
Bromodichloromethane, Total, (ug/l)	No Data
Bromoform, Total, (ug/l)	No Data
Carbon Tetrachloride, Total, (ug/l)	No Data
Chlorobenzene, Total, (ug/l)	No Data
Chloroethane, (ug/l)	No Data
Chloroform, Total, (ug/l)	No Data
Ethyl-Benzene, Total, (ug/l)	No Data
Methylene Chloride, Total, (ug/l)	No Data
Toluene, Total, (ug/l)	No Data
Trichlorofluoromethane, Total, (ug/l)	No Data
Vinyl Chloride, Total, (ug/l)	No Data
Chlorodibromomethane, Total, (ug/l)	No Data
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	No Data
Acetone, Total, (ug/l)	No Data
2-Butanone, (ug/l)	No Data
Carbon Disulfide, Total, (ug/l)	No Data
1,2 Dichloroethene, Total, (ug/l)	No Data
Xylenes, Total, (ug/l)	No Data
2-Hexanone, Total, (ug/l)	No Data
Styrene, Total, (ug/l)	No Data
Acrolein, Total, (ug/l)	No Data
Acrylonitirile, Total, (ug/l)	No Data
Bromobenzene, Water Whole, Total, (ug/l)	No Data
1,3-Dichloropropane, Water Whole, Total, (ug/l)	No Data
Methyl Bromide, Total, (ug/l)	No Data
Methyl Chloride, Total, (ug/l)	No Data
Parachloro Toluene, Total, (ug/l)	No Data
Dibromoethane, Total, (ug/l)	No Data
Acenaphthene, Total, (ug/l)	No Data
Acenaphthylene, Total, (ug/l)	No Data
Anthracene, Total, (ug/l)	No Data
Benzidine, Total, (ug/l)	No Data
Benzoic Acid, Total, (ug/l)	No Data
Benzo (a) Anthracene, Total, (ug/l)	No Data
Benzo (b) Fluoranthene, Total, (ug/l)	No Data
Benzo (k) Fluoranthene, Total, (ug/l)	No Data
Benzo (ghi) Perylene, Total, (ug/l)	No Data
Benzo (a) Pyrene, Total, (ug/l)	No Data
Benzyl Alcohol, Total, (ug/l)	No Data
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	No Data
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	No Data
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	No Data
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	No Data
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	No Data
Butyl Benzyl Phthalate, Total, (ug/l)	No Data
2-Chloronapthalene, Total, (ug/l)	No Data
2-Chlorophenol, Total, (ug/l)	No Data
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	No Data

Phoenix SR30 27th Avenue at Salt River	
Date of Sampling	
Chrysene, Total, (ug/l)	No Data
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	No Data
Di-N-Butyl Phthalate, Total, (ug/l)	No Data
1,3- Dichlorobenzene, Total, (ug/l)	No Data
1,4- Dichlorobenzene, Total, (ug/l)	No Data
1,2- Dichlorobenzene, Total, (ug/l)	No Data
3,3'- Dichlorobenzidine, Total, (ug/l)	No Data
2,4- Dichlorophenol, Total, (ug/l)	No Data
Diethyl Phthalate, Total, (ug/l)	No Data
2,4- Dimethylphenol, Total, (ug/l)	No Data
Dimethyl Phthalate, Total, (ug/l)	No Data
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrotoluene, Total, (ug/l)	No Data
2,6- Dinitrotoluene, Total, (ug/l)	No Data
Di-N-Octyl-Phthalate, Total, (ug/l)	No Data
Fluoranthene, Total, (ug/l)	No Data
Fluorene, Total, (ug/l)	No Data
Hexachlorobenzene, Total, (ug/l)	No Data
Hexachlorobutadiene, Total, (ug/l)	No Data
Hexachlorocyclopentadiene, Total, (ug/l)	No Data
Hexachloroethane, Total, (ug/l)	No Data
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	No Data
Isophorone, Total, (ug/l)	No Data
Naphthalene, Total, (ug/l)	No Data
Nitrobenzene, Total, (ug/l)	No Data
2-Nitrophenol, Total, (ug/l)	No Data
4-Nitrophenol, Total, (ug/l)	No Data
N-Nitrosodiphenylamine, Total, (ug/l)	No Data
N-Nitrosodi-N-Propylamine, Total, (ug/l)	No Data
Pentachlorophenol, Total, (ug/l)	No Data
Phenanthrene, Total, (ug/l)	No Data
Phenol, Total, (ug/l)	No Data
Pyrene, Total, (ug/l)	No Data
1,2,4-Trichlorobenzene, Total, (ug/l)	No Data
2,4,5- Trichlorophenol, Total, (ug/l)	No Data
2,4,6- Trichlorophenol, Total, (ug/l)	No Data
N-Nitrosodimethylamine, Total, (ug/l)	No Data
1,2- Diphenylhydrazine, Total, (ug/l)	No Data
Dichlorodifluoromethane, Total, (ug/l)	No Data
Parachloro-Meta-Cresol, Total, (ug/l)	No Data

SR-45 (Phoenix)

Salt River (south bank) at 40th Street

Phoenix SR45

Salt River and 40th Street

Date of Sampling	10/25/1998	12/15/1998
Time	0653	0525
Representative Storm Event	Y	Y
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) (DRN)	768	436
Storm Duration (minutes)	918	218
Runoff Sampled (cubic feet) (RUN)	7,200	8,115
Total Storm Runoff (cubic feet)	22,100	8,150
Instantaneous Discharge (cfs)	1.7	2.8
Preceeding Dry Period (days) (ANT)	34	9
Total Storm Rainfall (inch)	0.42	0.32
Rainfall Sampled (inch) (TRN)	0.39	0.32
Maximum 5-minute rain intensity (MAX5)	1.8	1.08
Sample Temperature (deg. C)	4	4
Effluent Temperature (deg. C)	20.4	18.7
Ambient Temperature (deg. C)	NM	NM
Barometric Pressure (mm Hg)	NM	NM
pH, Effluent (standard units)	6.4	7.2
pH, Lab (standard units)	--	--
Specific Conductance, FIELD (us/cm)	--	--
Specific Conductance, LAB (us/cm)	--	--
Oxygen Dissolved (% saturation)	--	--
Oxygen Dissolved (mg/l)	--	7.6
Electrical Conductivity (umhos/cm)	--	--
BOD5 (mg/l)	--	105
COD High Level (mg/l)	401	159
Chloride (mg/l as Cl)	41	--
Cyanide Total (mg/l as Cn)	<0.01	<0.01
Fecal Coliform (MPN/100mL)	--	--
Fecal Streptococci (MPN/100mL)	--	--
Total Dissolved Solids (mg/l)	450	231
Total Suspended Solids (mg/l)	430	802
Nitrogen No2 + No3, Total (mg/l as N)	--	<0.05
TKN Nitrogen (mg/l as N)	1	7.69
Nitrogen, Ammonia + Organic, Total (mg/l as N)	--	7.69
Nitrogen Nitrate Total (mg/l as N)	--	<0.05
Nitrogen Nitrite Total (mg/l as N)	<0.01	0.13
Nitrogen Ammonia Total (mg/l as N)	2.29	1.85
Nitrogen Organic Total (mg/l as N)	--	5.84
Phosphorous Total (mg/l as P)	2.3	1.3
Phosphorous Dissolved (mg/l as P)	0.09	--
Phosphorous Ortho (mg/l as P)	<0.05	0.23
Sulfate Dissolved (mg/l)	93	--
Hexavalent Chromium Total (mg/l)	<0.010	--

Phoenix SR45

Salt River and 40th Street

Date of Sampling	10/25/1998	12/15/1998
Phenols Total Recoverable (ug/l)	30	--
Oil and Grease Total Recoverable (mg/l)	--	--
Organic Carbon, Total (mg/l)	88	--
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)	82	--
Silica Dissolved (mg/l as SiO2)	--	--
Hardness (mg/l)	154	199
Antimony (ug/l as Sb)	<5	--
Antimony Dissolved (ug/l as Sb)	6	--
Arsenic Total (ug/l as As)	13	6
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)	0.31	0.25
Cadmium Dissolved (ug/l as Cd)	0.28	0.23
Calcium Dissolved (mg/l as Ca)	--	--
Chromium Total Recoverable (ug/l as Cr)	4.5	<1
Chromium Dissolved (ug/l as Cr)	4	1
Cobalt Dissolved (ug/l as Co)	--	--
Copper, Total Recoverable, (ug/l as Cu)	40	291
Copper, Dissolved, (ug/l as Cu)	30	61
Iron, Dissolved, (ug/l as Fe)	--	--
Lead, Total Recoverable, (ug/l as Pb)	<5	112
Lead, Dissolved, (ug/l as Pb)	8	18
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)	27	3.4
Nickel, Dissolved, (ug/l as Ni)	21	3.3
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	<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	--
Thallium, Dissolved, (ug/l as Tl)	<1	--
Vanadium, Dissolved, (ug/l as V)	--	--
Zinc, Total Recoverable, (ug/l as Zn)	160	840
Zinc, Dissolved, (ug/l as Zn)	170	180

Phoenix SR45

Salt River and 40th Street

Date of Sampling	10/25/1998	12/15/1998
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	<1.0
BHC - ALPHA, (ug/l)	<1.0	<1.0
BHC - Gamma (Lindane), (ug/l)	<1.0	<1.0
BHC - DELTA, (ug/l)	<1.0	<1.0
Aroclor 1016, PCB, Total, (ug/l)	<1.0	<1.0
Aroclor 1221, PCB, Total, (ug/l)	<10	<10
Aroclor 1232, PCB, Total, (ug/l)	<1.0	<1.0
Aroclor 1242, PCB, Total, (ug/l)	<1.0	<1.0
Aroclor 1248, PCB, Total, (ug/l)	<1.0	<1.0
Aroclor 1254, PCB, Total, (ug/l)	<1.0	<1.0
Aroclor 1260, PCB, Total, (ug/L)	<1.0	<1.0
Chlordane, Total, (ug/l)	<1.0	<1.0
P,P' DDD, Total, (ug/l)	<1.0	<1.0
P,P' DDE, Total, (ug/l)	<1.0	<1.0
P, P' DDT, Total, (ug/l)	<2.0	<2.0
Dieldrin, Total, (ug/l)	<1.0	<1.0
Endo-Sulfan Alpha, Total, (ug/l)	<1.0	<1.0
Endo-Sulfan Beta, Total, (ug/l)	<1.0	<1.0
Endo-Sulfan Sulfate, Total, (ug/l)	<1.0	<1.0
Endrin Aldehyde, Total, (ug/l)	<1.0	<1.0
Endrin, Total, (ug/l)	<1.0	<1.0
Heptachlor, Total, (ug/l)	<1.0	<1.0
Heptachlor Epoxide, Total, (ug/l)	<1.0	<1.0
Toxaphene, Total, (ug/l)	<1.0	<1.0
Methoxychlor, Total, (ug/l)	--	--
Beta Benzene Hexachloride, Total, (ug/l)	<1.0	<1.0
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)	--	--

Phoenix SR45

Salt River and 40th Street

Date of Sampling	10/25/1998	12/15/1998
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)	--	--
Methyl Bromide, Total, (ug/l)	--	--
Methyl Chloride, Total, (ug/l)	--	--
Parachloro Toluene, Total, (ug/l)	--	--
Dibromoethane, Total, (ug/l)	--	--
Acenaphthene, Total, (ug/l)	<25	<5.0
Acenaphthylene, Total, (ug/l)	<50	<10
Anthracene, Total, (ug/l)	<25	<5.0
Benzidine, Total, (ug/l)	<50	<20
Benzoic Acid, Total, (ug/l)	<250	<50
Benzo (a) Anthracene, Total, (ug/l)	<25	<5.0
Benzo (b) Fluoranthene, Total, (ug/l)	<25	<5.0
Benzo (k) Fluoranthene, Total, (ug/l)	<25	<5.0
Benzo (ghi) Perylene, Total, (ug/l)	<25	<5.0
Benzo (a) Pyrene, Total, (ug/l)	<25	<5.0
Benzyl Alcohol, Total, (ug/l)	<50	<10
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	<50	<10
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	<50	<5.0
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	<50	<10
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	<50	13
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	<25	<5.0
Butyl Benzyl Phthalate, Total, (ug/l)	<25	<5.0
2-Chloronapthalene, Total, (ug/l)	<25	<5.0
2-Chlorophenol, Total, (ug/l)	<50	<10
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	<50	<10

Phoenix SR45

Salt River and 40th Street

Date of Sampling	10/25/1998	12/15/1998
Chrysene, Total, (ug/l)	<25	<5.0
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	<25	<5.0
Di-N-Butyl Phthalate, Total, (ug/l)	<25	<5.0
1,3- Dichlorobenzene, Total, (ug/l)	<25	<5.0
1,4- Dichlorobenzene, Total, (ug/l)	<25	<5.0
1,2- Dichlorobenzene, Total, (ug/l)	<25	<5.0
3,3'- Dichlorobenzidine, Total, (ug/l)	<25	<5.0
2,4- Dichlorophenol, Total, (ug/l)	<50	<10
Diethyl Phthalate, Total, (ug/l)	<25	<5.0
2,4- Dimethylphenol, Total, (ug/l)	<50	<10
Dimethyl Phthalate, Total, (ug/l)	<25	<5.0
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	<50	<10
2,4- Dinitrophenol, Total, (ug/l)	<100	<20
2,4- Dinitrotoluene, Total, (ug/l)	<25	<5.0
2,6- Dinitrotoluene, Total, (ug/l)	<25	<5.0
Di-N-Octyl-Phthalate, Total, (ug/l)	<25	<5.0
Fluoranthene, Total, (ug/l)	<25	<5.0
Fluorene, Total, (ug/l)	<25	<5.0
Hexachlorobenzene, Total, (ug/l)	<50	<10
Hexachlorobutadiene, Total, (ug/l)	<25	<5.0
Hexachlorocyclopentadiene, Total, (ug/l)	<25	<5.0
Hexachloroethane, Total, (ug/l)	<50	<10
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	<25	<5.0
Isophorone, Total, (ug/l)	<50	<10
Naphthalene, Total, (ug/l)	<25	<5.0
Nitrobenzene, Total, (ug/l)	<50	<10
2-Nitrophenol, Total, (ug/l)	<50	<10
4-Nitrophenol, Total, (ug/l)	<25	<5.0
N-Nitrosodiphenylamine, Total, (ug/l)	<25	<5.0
N-Nitrosodi-N-Propylamine, Total, (ug/l)	<25	<5.0
Pentachlorophenol, Total, (ug/l)	<50	<10
Phenanthrene, Total, (ug/l)	<25	<5.0
Phenol, Total, (ug/l)	<25	<5.0
Pyrene, Total, (ug/l)	<25	<5.0
1,2,4-Trichlorobenzene, Total, (ug/l)	<25	<5.0
2,4,5- Trichlorophenol, Total, (ug/l)	<25	<5.0
2,4,6- Trichlorophenol, Total, (ug/l)	<25	<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 (Phoenix)

Salt River (north bank) at 67th Avenue

Phoenix SR49

Salt River at 67th Avenue

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

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	
Phenols Total Recoverable (ug/l)	No Data
Oil and Grease Total Recoverable (mg/l)	No Data
Organic Carbon, Total (mg/l)	No Data
Bicarbonate Whole Field (mg/l as HCo3)	No Data
Bicarbonate Dissolved, Field (mg/l as HCo3)	No Data
Carbonate Water Field (mg/l as Co3)	No Data
Carbonate Water Dissolved, Field, (mg/l as Co3)	No Data
Alkalinity Water Field Total (mg/l as CaCo3)	No Data
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	No Data
Alkalinity LAB (mg/l as CaCo3)	No Data
Silica Dissolved (mg/l as SiO2)	No Data
Hardness (mg/l)	No Data
Antimony (ug/l as Sb)	No Data
Antimony Dissolved (ug/l as Sb)	No Data
Arsenic Total (ug/l as As)	No Data
Arsenic Dissolved (ug/l as As)	No Data
Barium Dissolved (ug/l as Ba)	No Data
Beryllium Total Recoverable (ug/l as Be)	No Data
Beryllium Dissolved (ug/l as Be)	No Data
Cadmium Total Recoverable (ug/l as Cd)	No Data
Cadmium Dissolved (ug/l as Cd)	No Data
Calcium Dissolved (mg/l as Ca)	No Data
Chromium Total Recoverable (ug/l as Cr)	No Data
Chromium Dissolved (ug/l as Cr)	No Data
Cobalt Dissolved (ug/l as Co)	No Data
Copper, Total Recoverable, (ug/l as Cu)	No Data
Copper, Dissolved, (ug/l as Cu)	No Data
Iron, Dissolved, (ug/l as Fe)	No Data
Lead, Total Recoverable, (ug/l as Pb)	No Data
Lead, Dissolved, (ug/l as Pb)	No Data
Lithium, Dissolved, (ug/l as Li)	No Data
Magnesium, Dissolved, (mg/l as Mg)	No Data
Manganese, Dissolved, (ug/l as Mn)	No Data
Mercury, Total Recoverable, (ug/l as Hg)	No Data
Mercury, Dissolved, (ug/l as Hg)	No Data
Molybdenum, Dissolved, (ug/l as Mo)	No Data
Nickel, Total Recoverable, (ug/l as Ni)	No Data
Nickel, Dissolved, (ug/l as Ni)	No Data
Potassium, Dissolved, (mg/l as K)	No Data
Selenium, Total, (ug/l as Se)	No Data
Selenium, Dissolved, (ug/l as Se)	No Data
Silver, Total Recoverable, (ug/l as Ag)	No Data
Silver, Dissolved, (ug/l as Ag)	No Data
Sodium, Dissolved, (mg/l as Na)	No Data
Strontium, Dissolved, (ug/l as Sr)	No Data
Thallium, Total, (ug/l as Tl)	No Data
Thallium, Dissolved, (ug/l as Tl)	No Data
Vanadium, Dissolved, (ug/l as V)	No Data
Zinc, Total Recoverable, (ug/l as Zn)	No Data
Zinc, Dissolved, (ug/l as Zn)	No Data

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	
Diazinon, Total, (ug/l)	No Data
Ethion, Total, (ug/l)	No Data
Malathion, Total, (ug/l)	No Data
Methyl Parathion, Total, (ug/l)	No Data
Parathion, Total, (ug/l)	No Data
Trithion, Total, (ug/l)	No Data
Di-syston, Total, (ug/l)	No Data
Phorate, Total, (ug/l)	No Data
Chlorpyrifos, Total, (ug/l)	No Data
DEF, Total, (ug/l)	No Data
Fonofos(Dy-fonate), WWT, (ug/l)	No Data
Aldrin, Total, (ug/l)	No Data
BHC - ALPHA, (ug/l)	No Data
BHC - Gamma (Lindane), (ug/l)	No Data
BHC - DELTA, (ug/l)	No Data
Aroclor 1016, PCB, Total, (ug/l)	No Data
Aroclor 1221, PCB, Total, (ug/l)	No Data
Aroclor 1232, PCB, Total, (ug/l)	No Data
Aroclor 1242, PCB, Total, (ug/l)	No Data
Aroclor 1248, PCB, Total, (ug/l)	No Data
Aroclor 1254, PCB, Total, (ug/l)	No Data
Aroclor 1260, PCB, Total, (ug/L)	No Data
Chlordane, Total, (ug/l)	No Data
P,P' DDD, Total, (ug/l)	No Data
P,P' DDE, Total, (ug/l)	No Data
P, P' DDT, Total, (ug/l)	No Data
Dieldrin, Total, (ug/l)	No Data
Endo-Sulfan Alpha, Total, (ug/l)	No Data
Endo-Sulfan Beta, Total, (ug/l)	No Data
Endo-Sulfan Sulfate, Total, (ug/l)	No Data
Endrin Aldehyde, Total, (ug/l)	No Data
Endrin, Total, (ug/l)	No Data
Heptachlor, Total, (ug/l)	No Data
Heptachlor Epoxide, Total, (ug/l)	No Data
Toxaphene, Total, (ug/l)	No Data
Methoxychlor, Total, (ug/l)	No Data
Beta Benzene Hexachloride, Total, (ug/l)	No Data
1,1,2,2-Tetrachloroethane, Total, (ug/l)	No Data
1,1,1,2-Tetrachloroethane, Total,(ug/l)	No Data
Tetrachloroethene, PCE, Total, (ug/l)	No Data
1,1,1- Trichloroethane, Total, (ug/l)	No Data
1,1,2- Trichloroethane, Total, (ug/l)	No Data
Trichloroethene, Total, (ug/l)	No Data
1,1- Dichloroethane, Total, (ug/l)	No Data
1,1- Dichloroethene, Total, (ug/l)	No Data
1,2- Dichloroethane, Total, (ug/l)	No Data
1,2- Dichloropropane, Total, (ug/l)	No Data
2- Chloroethylvinyl Ether, Total, (ug/l)	No Data
cis-1,3-Dichloropropene, (ug/l)	No Data
trans-1,2- Dichloroethene, (ug/l)	No Data

Phoenix SR49

Salt River at 67th Avenue

Date of Sampling	
trans-1,3- Dichloropropene, (ug/l)	No Data
Benzene, Total, (ug/l)	No Data
Bromodichloromethane, Total, (ug/l)	No Data
Bromoform, Total, (ug/l)	No Data
Carbon Tetrachloride, Total, (ug/l)	No Data
Chlorobenzene, Total, (ug/l)	No Data
Chloroethane, (ug/l)	No Data
Chloroform, Total, (ug/l)	No Data
Ethyl-Benzene, Total, (ug/l)	No Data
Methylene Chloride, Total, (ug/l)	No Data
Toluene, Total, (ug/l)	No Data
Trichlorofluoromethane, Total, (ug/l)	No Data
Vinyl Chloride, Total, (ug/l)	No Data
Chlorodibromomethane, Total, (ug/l)	No Data
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	No Data
Acetone, Total, (ug/l)	No Data
2-Butanone, (ug/l)	No Data
Carbon Disulfide, Total, (ug/l)	No Data
1,2 Dichloroethene, Total, (ug/l)	No Data
Xylenes, Total, (ug/l)	No Data
2-Hexanone, Total, (ug/l)	No Data
Styrene, Total, (ug/l)	No Data
Acrolein, Total, (ug/l)	No Data
Acrylonitirile, Total, (ug/l)	No Data
Bromobenzene, Water Whole, Total, (ug/l)	No Data
1,3-Dichloropropane, Water Whole, Total, (ug/l)	No Data
Methyl Bromide, Total, (ug/l)	No Data
Methyl Chloride, Total, (ug/l)	No Data
Parachloro Toluene, Total, (ug/l)	No Data
Dibromoethane, Total, (ug/l)	No Data
Acenaphthene, Total, (ug/l)	No Data
Acenaphthylene, Total, (ug/l)	No Data
Anthracene, Total, (ug/l)	No Data
Benzidine, Total, (ug/l)	No Data
Benzoic Acid, Total, (ug/l)	No Data
Benzo (a) Anthracene, Total, (ug/l)	No Data
Benzo (b) Fluoranthene, Total, (ug/l)	No Data
Benzo (k) Fluoranthene, Total, (ug/l)	No Data
Benzo (ghi) Perylene, Total, (ug/l)	No Data
Benzo (a) Pyrene, Total, (ug/l)	No Data
Benzyl Alcohol, Total, (ug/l)	No Data
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	No Data
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	No Data
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	No Data
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	No Data
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	No Data
Butyl Benzyl Phthalate, Total, (ug/l)	No Data
2-Chloronapthalene, Total, (ug/l)	No Data
2-Chlorophenol, Total, (ug/l)	No Data
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	No Data

Phoenix SR49 Salt River at 67th Avenue	
Date of Sampling	
Chrysene, Total, (ug/l)	No Data
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	No Data
Di-N-Butyl Phthalate, Total, (ug/l)	No Data
1,3- Dichlorobenzene, Total, (ug/l)	No Data
1,4- Dichlorobenzene, Total, (ug/l)	No Data
1,2- Dichlorobenzene, Total, (ug/l)	No Data
3,3'- Dichlorobenzidine, Total, (ug/l)	No Data
2,4- Dichlorophenol, Total, (ug/l)	No Data
Diethyl Phthalate, Total, (ug/l)	No Data
2,4- Dimethylphenol, Total, (ug/l)	No Data
Dimethyl Phthalate, Total, (ug/l)	No Data
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrotoluene, Total, (ug/l)	No Data
2,6- Dinitrotoluene, Total, (ug/l)	No Data
Di-N-Octyl-Phthalate, Total, (ug/l)	No Data
Fluoranthene, Total, (ug/l)	No Data
Fluorene, Total, (ug/l)	No Data
Hexachlorobenzene, Total, (ug/l)	No Data
Hexachlorobutadiene, Total, (ug/l)	No Data
Hexachlorocyclopentadiene, Total, (ug/l)	No Data
Hexachloroethane, Total, (ug/l)	No Data
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	No Data
Isophorone, Total, (ug/l)	No Data
Naphthalene, Total, (ug/l)	No Data
Nitrobenzene, Total, (ug/l)	No Data
2-Nitrophenol, Total, (ug/l)	No Data
4-Nitrophenol, Total, (ug/l)	No Data
N-Nitrosodiphenylamine, Total, (ug/l)	No Data
N-Nitrosodi-N-Propylamine, Total, (ug/l)	No Data
Pentachlorophenol, Total, (ug/l)	No Data
Phenanthrene, Total, (ug/l)	No Data
Phenol, Total, (ug/l)	No Data
Pyrene, Total, (ug/l)	No Data
1,2,4-Trichlorobenzene, Total, (ug/l)	No Data
2,4,5- Trichlorophenol, Total, (ug/l)	No Data
2,4,6- Trichlorophenol, Total, (ug/l)	No Data
N-Nitrosodimethylamine, Total, (ug/l)	No Data
1,2- Diphenylhydrazine, Total, (ug/l)	No Data
Dichlorodifluoromethane, Total, (ug/l)	No Data
Parachloro-Meta-Cresol, Total, (ug/l)	No Data

IB-08 (Phoenix)

40th Street at Indian Bend Wash (north bank)

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	10/25/1998
Time	1919
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) (DRN)	149
Storm Duration (minutes)	182
Runoff Sampled (cubic feet) (RUN)	62,700
Total Storm Runoff (cubic feet)	178,000
Instantaneous Discharge (cfs)	18.2
Preceeding Dry Period (days) (ANT)	33
Total Storm Rainfall (inch)	0.21
Rainfall Sampled (inch) (TRN)	0.16
Maximum 5-minute rain intensity (MAX5)	0.48
Sample Temperature (deg. C)	4
Effluent Temperature (deg. C)	20.4
Ambient Temperature (deg. C)	NM
Barometric Pressure (mm Hg)	NM
pH, Effluent (standard units)	7.96
pH, Lab (standard units)	NM
Specific Conductance, FIELD (us/cm)	--
Specific Conductance, LAB (us/cm)	--
Oxygen Dissolved (% saturation)	--
Oxygen Dissolved (mg/l)	--
Electrical Conductivity (umhos/cm)	--
BOD5 (mg/l)	--
COD High Level (mg/l)	40
Chloride (mg/l as Cl)	5
Cyanide Total (mg/l as Cn)	<0.01
Fecal Coliform (MPN/100mL)	--
Fecal Streptococci (MPN/100mL)	--
Total Dissolved Solids (mg/l)	173
Total Suspended Solids (mg/l)	1520
Nitrogen No2 + No3, Total (mg/l as N)	--
TKN Nitrogen (mg/l as N)	0.6
Nitrogen, Ammonia + Organic, Total (mg/l as N)	--
Nitrogen Nitrate Total (mg/l as N)	--
Nitrogen Nitrite Total (mg/l as N)	0.33
Nitrogen Ammonia Total (mg/l as N)	0.9
Nitrogen Organic Total (mg/l as N)	--
Phosphorous Total (mg/l as P)	1
Phosphorous Dissolved (mg/l as P)	0.12
Phosphorous Ortho (mg/l as P)	0.1
Sulfate Dissolved (mg/l)	8
Hexavalent Chromium Total (mg/l)	<0.010

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	10/25/1998
Phenols Total Recoverable (ug/l)	<5
Oil and Grease Total Recoverable (mg/l)	--
Organic Carbon, Total (mg/l)	26
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)	68
Silica Dissolved (mg/l as SiO2)	--
Hardness (mg/l)	176
Antimony (ug/l as Sb)	<5
Antimony Dissolved (ug/l as Sb)	<4
Arsenic Total (ug/l as As)	6
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)	0.88
Cadmium Dissolved (ug/l as Cd)	0.23
Calcium Dissolved (mg/l as Ca)	--
Chromium Total Recoverable (ug/l as Cr)	19
Chromium Dissolved (ug/l as Cr)	3.4
Cobalt Dissolved (ug/l as Co)	--
Copper, Total Recoverable, (ug/l as Cu)	55
Copper, Dissolved, (ug/l as Cu)	16
Iron, Dissolved, (ug/l as Fe)	--
Lead, Total Recoverable, (ug/l as Pb)	77
Lead, Dissolved, (ug/l as Pb)	22
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)	30
Nickel, Dissolved, (ug/l as Ni)	10
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)	300
Zinc, Dissolved, (ug/l as Zn)	80

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	10/25/1998
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
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)	--
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)	--

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	10/25/1998
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)	--
Methyl Bromide, Total, (ug/l)	--
Methyl Chloride, Total, (ug/l)	--
Parachloro Toluene, Total, (ug/l)	--
Dibromoethane, Total, (ug/l)	--
Acenaphthene, Total, (ug/l)	<5
Acenaphthylene, Total, (ug/l)	<10
Anthracene, Total, (ug/l)	<5
Benzidine, Total, (ug/l)	<10
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)	13
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

Phoenix IB08

40th Street at Indian Bend Wash

Date of Sampling	10/25/1998
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
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)	<10
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)	--

ACDC43 (Phoenix)

ACDC near northwest corner of Peoria and 43rd Avenues

Phoenix ACDC

ACDC near 43rd Avenue

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

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	
Phenols Total Recoverable (ug/l)	No Data
Oil and Grease Total Recoverable (mg/l)	No Data
Organic Carbon, Total (mg/l)	No Data
Bicarbonate Whole Field (mg/l as HCo3)	No Data
Bicarbonate Dissolved, Field (mg/l as HCo3)	No Data
Carbonate Water Field (mg/l as Co3)	No Data
Carbonate Water Dissolved, Field, (mg/l as Co3)	No Data
Alkalinity Water Field Total (mg/l as CaCo3)	No Data
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)	No Data
Alkalinity LAB (mg/l as CaCo3)	No Data
Silica Dissolved (mg/l as SiO2)	No Data
Hardness (mg/l)	No Data
Antimony (ug/l as Sb)	No Data
Antimony Dissolved (ug/l as Sb)	No Data
Arsenic Total (ug/l as As)	No Data
Arsenic Dissolved (ug/l as As)	No Data
Barium Dissolved (ug/l as Ba)	No Data
Beryllium Total Recoverable (ug/l as Be)	No Data
Beryllium Dissolved (ug/l as Be)	No Data
Cadmium Total Recoverable (ug/l as Cd)	No Data
Cadmium Dissolved (ug/l as Cd)	No Data
Calcium Dissolved (mg/l as Ca)	No Data
Chromium Total Recoverable (ug/l as Cr)	No Data
Chromium Dissolved (ug/l as Cr)	No Data
Cobalt Dissolved (ug/l as Co)	No Data
Copper, Total Recoverable, (ug/l as Cu)	No Data
Copper, Dissolved, (ug/l as Cu)	No Data
Iron, Dissolved, (ug/l as Fe)	No Data
Lead, Total Recoverable, (ug/l as Pb)	No Data
Lead, Dissolved, (ug/l as Pb)	No Data
Lithium, Dissolved, (ug/l as Li)	No Data
Magnesium, Dissolved, (mg/l as Mg)	No Data
Manganese, Dissolved, (ug/l as Mn)	No Data
Mercury, Total Recoverable, (ug/l as Hg)	No Data
Mercury, Dissolved, (ug/l as Hg)	No Data
Molybdenum, Dissolved, (ug/l as Mo)	No Data
Nickel, Total Recoverable, (ug/l as Ni)	No Data
Nickel, Dissolved, (ug/l as Ni)	No Data
Potassium, Dissolved, (mg/l as K)	No Data
Selenium, Total, (ug/l as Se)	No Data
Selenium, Dissolved, (ug/l as Se)	No Data
Silver, Total Recoverable, (ug/l as Ag)	No Data
Silver, Dissolved, (ug/l as Ag)	No Data
Sodium, Dissolved, (mg/l as Na)	No Data
Strontium, Dissolved, (ug/l as Sr)	No Data
Thallium, Total, (ug/l as Tl)	No Data
Thallium, Dissolved, (ug/l as Tl)	No Data
Vanadium, Dissolved, (ug/l as V)	No Data
Zinc, Total Recoverable, (ug/l as Zn)	No Data
Zinc, Dissolved, (ug/l as Zn)	No Data

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	
Diazinon, Total, (ug/l)	No Data
Ethion, Total, (ug/l)	No Data
Malathion, Total, (ug/l)	No Data
Methyl Parathion, Total, (ug/l)	No Data
Parathion, Total, (ug/l)	No Data
Trithion, Total, (ug/l)	No Data
Di-syston, Total, (ug/l)	No Data
Phorate, Total, (ug/l)	No Data
Chlorpyrifos, Total, (ug/l)	No Data
DEF, Total, (ug/l)	No Data
Fonofos(Dy-fonate), WWT, (ug/l)	No Data
Aldrin, Total, (ug/l)	No Data
BHC - ALPHA, (ug/l)	No Data
BHC - Gamma (Lindane), (ug/l)	No Data
BHC - DELTA, (ug/l)	No Data
Aroclor 1016, PCB, Total, (ug/l)	No Data
Aroclor 1221, PCB, Total, (ug/l)	No Data
Aroclor 1232, PCB, Total, (ug/l)	No Data
Aroclor 1242, PCB, Total, (ug/l)	No Data
Aroclor 1248, PCB, Total, (ug/l)	No Data
Aroclor 1254, PCB, Total, (ug/l)	No Data
Aroclor 1260, PCB, Total, (ug/L)	No Data
Chlordane, Total, (ug/l)	No Data
P,P' DDD, Total, (ug/l)	No Data
P,P' DDE, Total, (ug/l)	No Data
P, P' DDT, Total, (ug/l)	No Data
Dieldrin, Total, (ug/l)	No Data
Endo-Sulfan Alpha, Total, (ug/l)	No Data
Endo-Sulfan Beta, Total, (ug/l)	No Data
Endo-Sulfan Sulfate, Total, (ug/l)	No Data
Endrin Aldehyde, Total, (ug/l)	No Data
Endrin, Total, (ug/l)	No Data
Heptachlor, Total, (ug/l)	No Data
Heptachlor Epoxide, Total, (ug/l)	No Data
Toxaphene, Total, (ug/l)	No Data
Methoxychlor, Total, (ug/l)	No Data
Beta Benzene Hexachloride, Total, (ug/l)	No Data
1,1,2,2-Tetrachloroethane, Total, (ug/l)	No Data
1,1,1,2-Tetrachloroethane, Total,(ug/l)	No Data
Tetrachloroethene, PCE, Total, (ug/l)	No Data
1,1,1- Trichloroethane, Total, (ug/l)	No Data
1,1,2- Trichloroethane, Total, (ug/l)	No Data
Trichloroethene, Total, (ug/l)	No Data
1,1- Dichloroethane, Total, (ug/l)	No Data
1,1- Dichloroethene, Total, (ug/l)	No Data
1,2- Dichloroethane, Total, (ug/l)	No Data
1,2- Dichloropropane, Total, (ug/l)	No Data
2- Chloroethylvinyl Ether, Total, (ug/l)	No Data
cis-1,3-Dichloropropene, (ug/l)	No Data
trans-1,2- Dichloroethene, (ug/l)	No Data

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	
trans-1,3- Dichloropropene, (ug/l)	No Data
Benzene, Total, (ug/l)	No Data
Bromodichloromethane, Total, (ug/l)	No Data
Bromoform, Total, (ug/l)	No Data
Carbon Tetrachloride, Total, (ug/l)	No Data
Chlorobenzene, Total, (ug/l)	No Data
Chloroethane, (ug/l)	No Data
Chloroform, Total, (ug/l)	No Data
Ethyl-Benzene, Total, (ug/l)	No Data
Methylene Chloride, Total, (ug/l)	No Data
Toluene, Total, (ug/l)	No Data
Trichlorofluoromethane, Total, (ug/l)	No Data
Vinyl Chloride, Total, (ug/l)	No Data
Chlorodibromomethane, Total, (ug/l)	No Data
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	No Data
Acetone, Total, (ug/l)	No Data
2-Butanone, (ug/l)	No Data
Carbon Disulfide, Total, (ug/l)	No Data
1,2 Dichloroethene, Total, (ug/l)	No Data
Xylenes, Total, (ug/l)	No Data
2-Hexanone, Total, (ug/l)	No Data
Styrene, Total, (ug/l)	No Data
Acrolein, Total, (ug/l)	No Data
Acrylonitirile, Total, (ug/l)	No Data
Bromobenzene, Water Whole, Total, (ug/l)	No Data
1,3-Dichloropropane, Water Whole, Total, (ug/l)	No Data
Methyl Bromide, Total, (ug/l)	No Data
Methyl Chloride, Total, (ug/l)	No Data
Parachloro Toluene, Total, (ug/l)	No Data
Dibromoethane, Total, (ug/l)	No Data
Acenaphthene, Total, (ug/l)	No Data
Acenaphthylene, Total, (ug/l)	No Data
Anthracene, Total, (ug/l)	No Data
Benzidine, Total, (ug/l)	No Data
Benzoic Acid, Total, (ug/l)	No Data
Benzo (a) Anthracene, Total, (ug/l)	No Data
Benzo (b) Fluoranthene, Total, (ug/l)	No Data
Benzo (k) Fluoranthene, Total, (ug/l)	No Data
Benzo (ghi) Perylene, Total, (ug/l)	No Data
Benzo (a) Pyrene, Total, (ug/l)	No Data
Benzyl Alcohol, Total, (ug/l)	No Data
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	No Data
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	No Data
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	No Data
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	No Data
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	No Data
Butyl Benzyl Phthalate, Total, (ug/l)	No Data
2-Chloronapthalene, Total, (ug/l)	No Data
2-Chlorophenol, Total, (ug/l)	No Data
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	No Data

Phoenix ACDC

ACDC near 43rd Avenue

Date of Sampling	
Chrysene, Total, (ug/l)	No Data
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	No Data
Di-N-Butyl Phthalate, Total, (ug/l)	No Data
1,3- Dichlorobenzene, Total, (ug/l)	No Data
1,4- Dichlorobenzene, Total, (ug/l)	No Data
1,2- Dichlorobenzene, Total, (ug/l)	No Data
3,3'- Dichlorobenzidine, Total, (ug/l)	No Data
2,4- Dichlorophenol, Total, (ug/l)	No Data
Diethyl Phthalate, Total, (ug/l)	No Data
2,4- Dimethylphenol, Total, (ug/l)	No Data
Dimethyl Phthalate, Total, (ug/l)	No Data
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrophenol, Total, (ug/l)	No Data
2,4- Dinitrotoluene, Total, (ug/l)	No Data
2,6- Dinitrotoluene, Total, (ug/l)	No Data
Di-N-Octyl-Phthalate, Total, (ug/l)	No Data
Fluoranthene, Total, (ug/l)	No Data
Fluorene, Total, (ug/l)	No Data
Hexachlorobenzene, Total, (ug/l)	No Data
Hexachlorobutadiene, Total, (ug/l)	No Data
Hexachlorocyclopentadiene, Total, (ug/l)	No Data
Hexachloroethane, Total, (ug/l)	No Data
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	No Data
Isophorone, Total, (ug/l)	No Data
Naphthalene, Total, (ug/l)	No Data
Nitrobenzene, Total, (ug/l)	No Data
2-Nitrophenol, Total, (ug/l)	No Data
4-Nitrophenol, Total, (ug/l)	No Data
N-Nitrosodiphenylamine, Total, (ug/l)	No Data
N-Nitrosodi-N-Propylamine, Total, (ug/l)	No Data
Pentachlorophenol, Total, (ug/l)	No Data
Phenanthrene, Total, (ug/l)	No Data
Phenol, Total, (ug/l)	No Data
Pyrene, Total, (ug/l)	No Data
1,2,4-Trichlorobenzene, Total, (ug/l)	No Data
2,4,5- Trichlorophenol, Total, (ug/l)	No Data
2,4,6- Trichlorophenol, Total, (ug/l)	No Data
N-Nitrosodimethylamine, Total, (ug/l)	No Data
1,2- Diphenylhydrazine, Total, (ug/l)	No Data
Dichlorodifluoromethane, Total, (ug/l)	No Data
Parachloro-Meta-Cresol, Total, (ug/l)	No Data

Validation Tables

Phoenix SR-03

October 25, 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				10/26/1998								
Effluent Temperature (deg. C)		21				10/26/1998								
Ambient Temperature (deg. C)		NM				n/a								
Barometric Pressure (mm Hg)		NM				n/a								
pH, Effluent (standard units)		7.0				10/26/1998								
pH, Lab (standard units)	150.1	--	std units			n/a	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		--				n/a								
Specific Conductance, LAB (us/cm)		--				n/a								
Oxygen Dissolved (% saturation)		--				n/a								
Oxygen Dissolved (mg/l)	360.1	--	mg/l			n/a	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			n/a	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		n/a	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	421	mg/l	1		11/09/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	20	mg/l			11/11/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			11/06/1998	14 days							
Fecal Coliform (MPN/100mL)	9221D	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Fecal Streptococci (MPN/100mL)	9230B	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	230	mg/l	10		10/30/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	408	mg/l	10		10/30/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	--	mg/l	0.05		n/a				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	0.6	mg/l			11/13/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	--	mg/l			n/a								
Nitrogen Nitrate Total (mg/l as N)	300.0	--	mg/l			n/a	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.11	mg/l			10/26/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	1.48	mg/l			10/29/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l			n/a								
Phosphorous Total (mg/l as P)	365.3	0.31	mg/l	0.05		11/17/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.19	mg/l			11/19/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.18	mg/l	0.05		10/27/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	17	mg/l			11/13/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			10/27/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	5.7	ug/l			11/04/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	--	mg/l	0.2		n/a	28 days	<30	n/a	<50	n/a			
Organic Carbon, Total (mg/l)	5310C	41	mg/l			11/16/1998	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--				n/a								
Bicarbonate Dissolved, Field (mg/l as HCo3)		--				n/a								
Carbonate Water Field (mg/l as Co3)		--				n/a								
Carbonate Water Dissolved, Field, (mg/l as Co3)		--				n/a								
Alkalinity Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity LAB (mg/l as CaCo3)	2320B	70	mg/l			10/29/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--				n/a								
Hardness (mg/l)	2340B	142	mg/l	1		11/04/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			11/08/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			11/25/1998	6 months							
Arsenic Total (ug/l as As)	3113B	14	ug/l			11/11/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			11/11/1998	6 months							
Barium Dissolved (ug/l as Ba)		--				n/a								

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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			11/04/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			11/03/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	2.1	ug/l	0.2		11/11/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	0.39	ug/l			11/11/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--				n/a								
Chromium Total Recoverable (ug/l as Cr)	7191	25	ug/l	1		11/12/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	3.2	ug/l			11/12/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--				n/a								
Copper, Total Recoverable, (ug/l as Cu)	3113B	88	ug/l	1		11/04/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	20	ug/l			11/03/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--				n/a								
Lead, Total Recoverable, (ug/l as Pb)	3113B	66	ug/l	1		11/06/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	18	ug/l			11/06/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--				n/a								
Magnesium, Dissolved, (mg/l as Mg)		--				n/a								
Manganese, Dissolved, (ug/l as Mn)		--				n/a								
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--				n/a								
Nickel, Total Recoverable, (ug/l as Ni)	249.2	52	ug/l	2		11/11/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	12	ug/l			11/11/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--				n/a								
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			11/03/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			11/10/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			11/04/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			11/03/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--				n/a								
Strontium, Dissolved, (ug/l as Sr)		--				n/a								
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--				n/a								
Zinc, Total Recoverable, (ug/l as Zn)	200.7	510	ug/l	1		11/04/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	180	ug/l			11/03/1998	6 months							
Diazinon, Total, (ug/l)		--				n/a								
Ethion, Total, (ug/l)		--				n/a								
Malathion, Total, (ug/l)		--				n/a								
Methyl Parathion, Total, (ug/l)		--				n/a								
Parathion, Total, (ug/l)		--				n/a								
Trithion, Total, (ug/l)		--				n/a								
Di-syston, Total, (ug/l)		--				n/a								
Phorate, Total, (ug/l)		--				n/a								
Chlorpyrifos, Total, (ug/l)		--				n/a								
DEF, Total, (ug/l)		--				n/a								
Fonofos(Dy-fonate), WWT, (ug/l)		--				n/a								
EPA Method 608 Extraction						10/29/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			11/06/1998	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			11/06/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			11/06/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			11/06/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			11/06/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Methoxychlor, Total, (ug/l)	608	--	ug/l			n/a	40 days							
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)	624	--	ug/l			n/a	14 days							
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l			n/a	14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromoform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroethane, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methylene Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							

Phoenix SR-03 October 25, 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
Vinyl Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	624	--	ug/l			n/a	14 days							
Acetone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Butanone, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Xylenes, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Styrene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrolein, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromobenzene, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,3-Dichloropropane, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Bromide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Parachloro Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Dibromoethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
EPA Method 625 Extraction						10/28/1998	7 days							
Acenaphthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzidine, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<250	ug/l			11/19/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Chrysene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	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
2,4- Dimethylphenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<100	ug/l			11/19/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Fluorene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Isophorone, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Naphthalene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Phenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	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				10/26/1998								
Effluent Temperature (deg. C)		20.4				10/26/1998								
Ambient Temperature (deg. C)		NM				n/a								
Barometric Pressure (mm Hg)		NM				n/a								
pH, Effluent (standard units)		6.4				10/26/1998								
pH, Lab (standard units)	150.1	--	std units			n/a	Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		--				n/a								
Specific Conductance, LAB (us/cm)		--				n/a								
Oxygen Dissolved (% saturation)		--				n/a								
Oxygen Dissolved (mg/l)	360.1	--	mg/l			n/a	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			n/a	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		n/a	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	401	mg/l	1		11/17/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	41	mg/l			11/11/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			11/06/1998	14 days							
Fecal Coliform (MPN/100mL)	9221D	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Fecal Streptococci (MPN/100mL)	9230B	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	450	mg/l	10		10/30/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	430	mg/l	10		10/30/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	--	mg/l	0.05		n/a				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	1	mg/l			11/13/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	--	mg/l			n/a								
Nitrogen Nitrate Total (mg/l as N)	300.0	--	mg/l			n/a	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	<0.01	mg/l			10/26/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	2.29	mg/l			10/29/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l			n/a								
Phosphorous Total (mg/l as P)	365.3	2.3	mg/l	0.05		11/17/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.09	mg/l			11/19/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	<0.05	mg/l	0.05		10/27/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	93	mg/l			11/13/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			10/27/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	30	ug/l			11/04/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	--	mg/l	0.2		n/a	28 days	<30	n/a	<50	n/a			
Organic Carbon, Total (mg/l)	5310C	88	mg/l			11/16/1998	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--				n/a								
Bicarbonate Dissolved, Field (mg/l as HCo3)		--				n/a								
Carbonate Water Field (mg/l as Co3)		--				n/a								
Carbonate Water Dissolved, Field, (mg/l as Co3)		--				n/a								
Alkalinity Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity LAB (mg/l as CaCo3)	2320B	82	mg/l			10/29/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--				n/a								
Hardness (mg/l)	2340B	154	mg/l	1		11/04/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			11/08/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	6	ug/l			11/25/1998	6 months							
Arsenic Total (ug/l as As)	3113B	13	ug/l			11/11/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			11/11/1998	6 months							
Barium Dissolved (ug/l as Ba)		--				n/a								

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Beryllium Total Recoverable (ug/l as Be)	200.7	<2	ug/l			11/04/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			11/03/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	0.31	ug/l	0.2		11/11/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	0.28	ug/l			11/11/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--				n/a								
Chromium Total Recoverable (ug/l as Cr)	7191	4.5	ug/l	1		11/12/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	4	ug/l			11/12/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--				n/a								
Copper, Total Recoverable, (ug/l as Cu)	3113B	40	ug/l	1		11/04/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	30	ug/l			11/03/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--				n/a								
Lead, Total Recoverable, (ug/l as Pb)	3113B	<5	ug/l	1		11/06/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	8	ug/l			11/06/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--				n/a								
Magnesium, Dissolved, (mg/l as Mg)		--				n/a								
Manganese, Dissolved, (ug/l as Mn)		--				n/a								
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--				n/a								
Nickel, Total Recoverable, (ug/l as Ni)	249.2	27	ug/l	2		11/05/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	21	ug/l			11/11/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--				n/a								
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			11/03/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			11/10/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			11/04/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			11/03/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--				n/a								
Strontium, Dissolved, (ug/l as Sr)		--				n/a								
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--				n/a								
Zinc, Total Recoverable, (ug/l as Zn)	200.7	160	ug/l	1		11/04/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	170	ug/l			11/03/1998	6 months							
Diazinon, Total, (ug/l)		--				n/a								
Ethion, Total, (ug/l)		--				n/a								
Malathion, Total, (ug/l)		--				n/a								
Methyl Parathion, Total, (ug/l)		--				n/a								
Parathion, Total, (ug/l)		--				n/a								
Trithion, Total, (ug/l)		--				n/a								
Di-syston, Total, (ug/l)		--				n/a								
Phorate, Total, (ug/l)		--				n/a								
Chlorpyrifos, Total, (ug/l)		--				n/a								
DEF, Total, (ug/l)		--				n/a								
Fonofos(Dy-fonate), WWT, (ug/l)		--				n/a								
EPA Method 608 Extraction						10/29/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			11/06/1998	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			11/06/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			11/06/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			11/06/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			11/06/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Methoxychlor, Total, (ug/l)	608	--	ug/l			n/a	40 days							
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)	624	--	ug/l			n/a	14 days							
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l			n/a	14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromoform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroethane, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methylene Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l			n/a	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	--	ug/l			n/a	14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	624	--	ug/l			n/a	14 days							
Acetone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Butanone, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Xylenes, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Styrene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrolein, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromobenzene, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,3-Dichloropropane, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Bromide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Parachloro Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Dibromoethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
EPA Method 625 Extraction						10/28/1998	7 days							
Acenaphthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzidine, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<250	ug/l			11/19/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Chrysene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	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
2,4- Dimethylphenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<100	ug/l			11/19/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Fluorene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Isophorone, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Naphthalene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Phenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
Pyrene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<25	ug/l			11/19/1998	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				10/26/1998								
Effluent Temperature (deg. C)		20.4				10/26/1998								
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)		7.96				10/26/1998								
pH, Lab (standard units)	150.1	NM	std units				Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	360.1	--	mg/l			n/a	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm			n/a	20 days							
BOD5 (mg/l)	405.1	--	mg/l	1		n/a	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	40	mg/l	1		11/17/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	5	mg/l			11/11/1998	28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			11/06/1998	14 days							
Fecal Coliform (MPN/100mL)	9221D	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Fecal Streptococci (MPN/100mL)	9230B	--	CFU/100ml	2		n/a	6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	173	mg/l	10		10/30/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	1520	mg/l	10		10/30/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	--	mg/l	0.05		n/a				<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	0.6	mg/l			11/13/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	--	mg/l			n/a								
Nitrogen Nitrate Total (mg/l as N)	300.0	--	mg/l			n/a	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.33	mg/l			10/26/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	0.9	mg/l			10/29/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	--	mg/l			n/a								
Phosphorous Total (mg/l as P)	365.3	1	mg/l	0.05		11/17/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	0.12	mg/l			11/19/1998	28 days							
Phosphorous Ortho (mg/l as P)	4500P	0.1	mg/l	0.05		10/27/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	8	mg/l			11/13/1998	28 days							
Hexavalent Chromium Total (mg/l)	3500	<0.010	mg/l			10/27/1998	24 hours							
Phenols Total Recoverable (ug/l)	420.1	<5	ug/l			11/04/1998	28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	--	mg/l	0.2		n/a	28 days	<30	n/a	<50	n/a			
Organic Carbon, Total (mg/l)	5310C	26	mg/l			11/16/1998	28 days							
Bicarbonate Whole Field (mg/l as HCo3)		--				n/a								
Bicarbonate Dissolved, Field (mg/l as HCo3)		--				n/a								
Carbonate Water Field (mg/l as Co3)		--				n/a								
Carbonate Water Dissolved, Field, (mg/l as Co3)		--				n/a								
Alkalinity Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity Dissolved Water Field Total (mg/l as CaCo3)		--				n/a								
Alkalinity LAB (mg/l as CaCo3)	2320B	68	mg/l			10/29/1998	14 days							
Silica Dissolved (mg/l as SiO2)		--				n/a								
Hardness (mg/l)	2340B	176	mg/l	1		11/04/1998	6 months			<15	n/a			
Antimony (ug/l as Sb)	3113B	<5	ug/l			11/08/1998	6 months							
Antimony Dissolved (ug/l as Sb)	200.9	<4	ug/l			11/25/1998	6 months							
Arsenic Total (ug/l as As)	3113B	6	ug/l			11/11/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	<5	ug/l			11/11/1998	6 months							
Barium Dissolved (ug/l as Ba)		--				n/a								

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			11/04/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			11/03/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	0.88	ug/l	0.2		11/11/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	0.23	ug/l			11/11/1998	6 months							
Calcium Dissolved (mg/l as Ca)		--				n/a								
Chromium Total Recoverable (ug/l as Cr)	7191	19	ug/l	1		11/12/1998	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	3.4	ug/l			11/12/1998	6 months							
Cobalt Dissolved (ug/l as Co)		--				n/a								
Copper, Total Recoverable, (ug/l as Cu)	3113B	55	ug/l	1		11/04/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	16	ug/l			11/03/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--				n/a								
Lead, Total Recoverable, (ug/l as Pb)	3113B	77	ug/l	1		11/06/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	22	ug/l			11/06/1998	6 months							
Lithium, Dissolved, (ug/l as Li)		--				n/a								
Magnesium, Dissolved, (mg/l as Mg)		--				n/a								
Manganese, Dissolved, (ug/l as Mn)		--				n/a								
Mercury, Total Recoverable, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Mercury, Dissolved, (ug/l as Hg)	245.1	<0.2	ug/l			11/05/1998	6 months							
Molybdenum, Dissolved, (ug/l as Mo)		--				n/a								
Nickel, Total Recoverable, (ug/l as Ni)	249.2	30	ug/l	2		11/11/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	10	ug/l			11/11/1998	6 months							
Potassium, Dissolved, (mg/l as K)		--				n/a								
Selenium, Total, (ug/l as Se)	3113B	<5	ug/l			11/03/1998	6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	<5	ug/l			11/10/1998	6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			11/04/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			11/03/1998	6 months							
Sodium, Dissolved, (mg/l as Na)		--				n/a								
Strontium, Dissolved, (ug/l as Sr)		--				n/a								
Thallium, Total, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Thallium, Dissolved, (ug/l as Tl)	200.9	<1	ug/l			11/04/1998	6 months							
Vanadium, Dissolved, (ug/l as V)		--				n/a								
Zinc, Total Recoverable, (ug/l as Zn)	200.7	300	ug/l	1		11/04/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	80	ug/l			11/03/1998	6 months							
Diazinon, Total, (ug/l)		--				n/a								
Ethion, Total, (ug/l)		--				n/a								
Malathion, Total, (ug/l)		--				n/a								
Methyl Parathion, Total, (ug/l)		--				n/a								
Parathion, Total, (ug/l)		--				n/a								
Trithion, Total, (ug/l)		--				n/a								
Di-syston, Total, (ug/l)		--				n/a								
Phorate, Total, (ug/l)		--				n/a								
Chlorpyrifos, Total, (ug/l)		--				n/a								
DEF, Total, (ug/l)		--				n/a								
Fonofos(Dy-fonate), WWT, (ug/l)		--				n/a								
EPA Method 608 Extraction						10/29/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			11/06/1998	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			11/06/1998	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			11/06/1998	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			11/06/1998	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			11/06/1998	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
Methoxychlor, Total, (ug/l)	608	--	ug/l			n/a	40 days							
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			11/06/1998	40 days							
1,1,2,2-Tetrachloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1,2-Tetrachloroethane, Total,(ug/l)	624	--	ug/l			n/a	14 days							
Tetrachloroethene, PCE, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,1- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1,2- Trichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,1- Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloroethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2- Dichloropropane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2- Chloroethylvinyl Ether, Total, (ug/l)	624	--	ug/l			n/a	14 days							
cis-1,3-Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,2- Dichloroethene, (ug/l)	624	--	ug/l			n/a	14 days							
trans-1,3- Dichloropropene, (ug/l)	624	--	ug/l			n/a	14 days							
Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromodichloromethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromoform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Tetrachloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chlorobenzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroethane, (ug/l)	624	--	ug/l			n/a	14 days							
Chloroform, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Ethyl-Benzene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methylene Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l			n/a	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	--	ug/l			n/a	14 days							
Chlorodibromomethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
4- Methyl, 2- Pentanone, (MIBK), Total, (ug/L)	624	--	ug/l			n/a	14 days							
Acetone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Butanone, (ug/l)	624	--	ug/l			n/a	14 days							
Carbon Disulfide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,2 Dichloroethene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Xylenes, Total, (ug/l)	624	--	ug/l			n/a	14 days							
2-Hexanone, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Styrene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrolein, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Acrylonitirile, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Bromobenzene, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
1,3-Dichloropropane, Water Whole, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Bromide, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Methyl Chloride, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Parachloro Toluene, Total, (ug/l)	624	--	ug/l			n/a	14 days							
Dibromoethane, Total, (ug/l)	624	--	ug/l			n/a	14 days							
EPA Method 625 Extraction						10/28/1998	7 days							
Acenaphthene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Anthracene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzidine, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<50	ug/l			11/19/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	13	ug/l			11/19/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Chrysene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<5	ug/l			11/19/1998	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
2,4- Dimethylphenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<20	ug/l			11/19/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Fluorene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Isophorone, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Naphthalene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<10	ug/l			11/19/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Phenol, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
Pyrene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<5	ug/l			11/19/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<5	ug/l			11/19/1998	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)	Field	4				12/15/1998								
Effluent Temperature (deg. C)	Field	18.7				12/15/1998								
Ambient Temperature (deg. C)		NM												
Barometric Pressure (mm Hg)		NM												
pH, Effluent (standard units)	Field	7.2				12/15/1998								
pH, Lab (standard units)	150.1	--	std units				Immediate			<15	n/a			
Specific Conductance, FIELD (us/cm)		--												
Specific Conductance, LAB (us/cm)		--												
Oxygen Dissolved (% saturation)		--												
Oxygen Dissolved (mg/l)	Field	7.6	mg/l			12/15/1998	Immediate							
Electrical Conductivity (umhos/cm)	2510B	--	umhos/cm				20 days							
BOD5 (mg/l)	405.1	105	mg/l	1		12/17/1998	48 hours			<30	n/a			
COD High Level (mg/l)	410.4	159	mg/l	1		12/29/1998	28 days			<30	n/a			
Chloride (mg/l as Cl)	4500	--	mg/l				28 days							
Cyanide Total (mg/l as Cn)	4500	<0.01	mg/l			12/22/1998	14 days							
Fecal Coliform (MPN/100mL)	9221D	--	PN/100mL	2			6 hours			<30	n/a			
Fecal Streptococci (MPN/100mL)	9230B	--	PN/100mL	2			6 hours			<30	n/a			
Total Dissolved Solids (mg/l)	2540C	231	mg/l	10		12/17/1998	7 days			<15	n/a			
Total Suspended Solids (mg/l)	160.2	802	mg/l	10		12/18/1998	7 days			<15	n/a			
Nitrogen No2 + No3, Total (mg/l as N)	calc.	<0.05	mg/l	0.05						<15	n/a			
TKN Nitrogen (mg/l as N)	351.3	7.69	mg/l			12/22/1998	28 days							
Nitrogen, Ammonia + Organic, Total (mg/l as N)	calc.	7.69	mg/l											
Nitrogen Nitrate Total (mg/l as N)	300.0	<0.05	mg/l			12/29/1998	48 hours							
Nitrogen Nitrite Total (mg/l as N)	300.0	0.13	mg/l			12/16/1998	48 hours							
Nitrogen Ammonia Total (mg/l as N)	350.2	1.85	mg/l			12/18/1998	28 days							
Nitrogen Organic Total (mg/l as N)	calc.	5.84	mg/l											
Phosphorous Total (mg/l as P)	365.3	1.3	mg/l	0.05		12/23/1998	28 days			<15	3.5			
Phosphorous Dissolved (mg/l as P)	365.3	--	mg/l		R		28 days							Analysis beyond hold time
Phosphorous Ortho (mg/l as P)	4500P	0.23	mg/l	0.05		12/16/1998	48 hours			<15	0			
Sulfate Dissolved (mg/l)	300.0	--	mg/l				28 days							
Hexavalent Chromium Total (mg/l)	3500	--	mg/l				24 hours							
Phenols Total Recoverable (ug/l)	420.1	--	ug/l				28 days							
Oil and Grease Total Recoverable (mg/l)	413.1	--	mg/l	0.2			28 days	<30	n/a	<50	n/a			
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	--	mg/l				14 days							
Silica Dissolved (mg/l as SiO2)		--												
Hardness (mg/l)	2340B	199	mg/l	1		12/29/1998	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	6	ug/l			12/21/1998	6 months							
Arsenic Dissolved (ug/l as As)	200.9	5	ug/l			12/30/1998	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			12/30/1998	6 months							
Beryllium Dissolved (ug/l as Be)	200.7	<2	ug/l			12/18/1998	6 months							
Cadmium Total Recoverable (ug/l as Cd)	7131	0.25	ug/l	0.2		12/29/1998	6 months	<25		<35				
Cadmium Dissolved (ug/l as Cd)	7131	0.23	ug/l			01/05/1999	6 months							
Calcium Dissolved (mg/l as Ca)		--												
Chromium Total Recoverable (ug/l as Cr)	7191	<1	ug/l	1		01/05/1999	6 months	<25		<35				
Chromium Dissolved (ug/l as Cr)	7191	1	ug/l			01/05/1999	6 months							
Cobalt Dissolved (ug/l as Co)		--												
Copper, Total Recoverable, (ug/l as Cu)	3113B	291	ug/l	1		12/21/1998	6 months	<25		<35				
Copper, Dissolved, (ug/l as Cu)	200.9	61	ug/l			12/18/1998	6 months							
Iron, Dissolved, (ug/l as Fe)		--												
Lead, Total Recoverable, (ug/l as Pb)	3113B	112	ug/l	1		12/28/1998	6 months	<25		<35				
Lead, Dissolved, (ug/l as Pb)	200.9	18	ug/l			12/28/1998	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	--	ug/l				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	3.4	ug/l	2		12/28/1998	6 months	<25		<35				
Nickel, Dissolved, (ug/l as Ni)	249.2	3.3	ug/l			01/05/1999	6 months							
Potassium, Dissolved, (mg/l as K)		--												
Selenium, Total, (ug/l as Se)	3113B	--	ug/l				6 months							
Selenium, Dissolved, (ug/l as Se)	200.9	--	ug/l				6 months							
Silver, Total Recoverable, (ug/l as Ag)	200.7	<40	ug/l			12/18/1998	6 months							
Silver, Dissolved, (ug/l as Ag)	200.7	<50	ug/l			12/18/1998	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	840	ug/l	1		12/21/1998	6 months	<25		<35				
Zinc, Dissolved, (ug/l as Zn)	200.7	180	ug/l			01/05/1999	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						12/21/1998	7 days							
Aldrin, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
BHC - ALPHA, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
BHC - Gamma (Lindane), (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							

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BHC - DELTA, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1016, PCB, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1221, PCB, Total, (ug/l)	608	<10	ug/l			01/01/1999	40 days							
Aroclor 1232, PCB, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1242, PCB, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1248, PCB, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1254, PCB, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Aroclor 1260, PCB, Total, (ug/L)	608	<1.0	ug/l			01/01/1999	40 days							
Chlordane, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
P,P' DDD, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
P,P' DDE, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
P, P' DDT, Total, (ug/l)	608	<2.0	ug/l			01/01/1999	40 days							
Dieldrin, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Endo-Sulfan Alpha, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Endo-Sulfan Beta, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Endo-Sulfan Sulfate, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Endrin Aldehyde, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Endrin, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Heptachlor, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Heptachlor Epoxide, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Toxaphene, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	40 days							
Methoxychlor, Total, (ug/l)		--												
Beta Benzene Hexachloride, Total, (ug/l)	608	<1.0	ug/l			01/01/1999	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							
Methylene Chloride, Total, (ug/l)	624	--	ug/l				14 days							
Toluene, Total, (ug/l)	624	--	ug/l				14 days							
Trichlorofluoromethane, Total, (ug/l)	624	--	ug/l				14 days							

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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)	624	--	ug/l				14 days							
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)	624	--	ug/l				14 days							
1,3-Dichloropropane, Water Whole, Total, (ug/l)	624	--	ug/l				14 days							
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)	624	--	ug/l				14 days							
Dibromoethane, Total, (ug/l)	624	--	ug/l				14 days							
EPA Method 625 Extraction						12/21/1998	7 days							
Acenaphthene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Acenaphthylene, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Anthracene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzidine, Total, (ug/l)	625	<20	ug/l			12/22/1998	40 days							
Benzoic Acid, Total, (ug/l)	625	<50	ug/l			12/22/1998	40 days							
Benzo (a) Anthracene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzo (b) Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzo (k) Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzo (ghi) Perylene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzo (a) Pyrene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Benzyl Alcohol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Bis-(2-Chloroethoxy)-Methane, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Bis-(2-Chloroethyl)-Ether, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Bis-(2-Chloroisopropyl)-Ether, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Bis(2-Ethyl Hexyl) Phthalate, Total, (ug/l)	625	13	ug/l			12/22/1998	40 days							
4-Bromo-Phenyl Phenyl Ether, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Butyl Benzyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2-Chloronapthalene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2-Chlorophenol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
4-Chloro-Phenyl Phenyl Ether, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Chrysene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Dibenzo-[a,h]-Anthracene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Di-N-Butyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
1,3- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
1,4- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
1,2- Dichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
3,3'- Dichlorobenzidine, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2,4- Dichlorophenol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Diethyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							

Phoenix SR45

15 December 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			12/22/1998	40 days							
Dimethyl Phthalate, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2-Methyl-4,6-Dinitrophenol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
2,4- Dinitrophenol, Total, (ug/l)	625	<20	ug/l			12/22/1998	40 days							
2,4- Dinitrotoluene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2,6- Dinitrotoluene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Di-N-Octyl-Phthalate, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Fluoranthene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Fluorene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Hexachlorobenzene, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Hexachlorobutadiene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Hexachlorocyclopentadiene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Hexachloroethane, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Indeno (1,2,3-CD) Pyrene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Isophorone, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Naphthalene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Nitrobenzene, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
2-Nitrophenol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
4-Nitrophenol, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
N-Nitrosodiphenylamine, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
N-Nitrosodi-N-Propylamine, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Pentachlorophenol, Total, (ug/l)	625	<10	ug/l			12/22/1998	40 days							
Phenanthrene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Phenol, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
Pyrene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
1,2,4-Trichlorobenzene, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2,4,5- Trichlorophenol, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							
2,4,6- Trichlorophenol, Total, (ug/l)	625	<5.0	ug/l			12/22/1998	40 days							

Hard Copies of Data

Data Checksheet

Site	SR-03
Municipality	PHOENIX
Sample Date	10-26-98

Date Received	1-20-99

Laboratory Used	BOLIN
Laboratory Contact	STEPHANIE
FCD Sample ID Number	PHX 1
Lab Sample ID Number	9810-07630-001
Laboratory Invoice Number	47975

Initial Review Complete	✓	Date	2-1-99
Lab Contacted		Date	
Lab Review Complete		Date	
Second Review Complete		Date	
Additional Review Necessary			

Comments

Data Validation Table Complete	✓	Date	2-2-99

Data Entered Into Database	✓	Date	2-2-99

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: 10/26/98
Reported: 12/03/98
Invoice No: 047975

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9810-07630-001
Sample ID: Phx 1 (35th Ave.)

Time Sampled: 17:05
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chemical Oxygen Demand	EPA 410.4	421. D1	mg/L	100	11/09/98
P as Total Phosphate	EPA 365.3	0.31	mg/L	0.05	11/17/98
Total Phosphate	CALCULATION	0.95	mg/L	0.15	11/17/98
Total Kjeldahl Nitrogen	EPA 351.3	0.6	mg/L	0.5	11/13/98
Solids, Total Suspended	EPA 160.2	408.	mg/L	1.	10/30/98
Total Dissolved Solids	SM 2540C	230.	mg/L	1.	10/30/98
pH	EPA 150.1	6.5	Std Unit		10/27/98
Total Alkalinity (as CaCO3)	SM 2320B	70.	mg/L	2.	10/29/98
Sulfate, Dissolved	SM 4500 SO4	17.	mg/L	5.0	11/13/98
Chloride	EPA 300.0	20.	mg/L	5.0	11/11/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	10/27/98
Nitrogen as Nitrite	SM 4500 NO2 B	0.11	mg/L	0.1	10/26/98
P as Orthophosphate	SM 4500 PE	0.18	mg/L	0.05	10/27/98
Phosphorus, Dissolved	EPA 365.3	0.19	mg/L	0.05	11/19/98
Nitrogen as Ammonia	EPA 350.2	1.48	mg/L	0.03	10/29/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	11/06/98
Total Organic Carbon	SM 5310C	41.1	mg/L	0.2	11/16/98
Phenolics, Total	EPA 420.1	0.0057	mg/L	0.0050	11/04/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	25	11/19/98
Phenol	EPA 625	ND	ug/L	25	11/19/98
Aniline	EPA 625	ND	ug/L	25	11/19/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	50	11/19/98
2-Chlorophenol	EPA 625	ND	ug/L	50	11/19/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
Benzyl alcohol	EPA 625	ND	ug/L	50	11/19/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
2-Methylphenol	EPA 625	ND	ug/L	25	11/19/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	50	11/19/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	25	11/19/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	25	11/19/98
Hexachloroethane	EPA 625	ND	ug/L	50	11/19/98

Bolin Laboratories Inc.

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

Matrix: Storm Water
Sample No: 9810-07630-001

Time Sampled: 17:05
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Nitrobenzene	EPA 625	ND	ug/L	50	11/19/98
Isophorone	EPA 625	ND	ug/L	50	11/19/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	50	11/19/98
Benzoic acid	EPA 625	ND	ug/L	250	11/19/98
2-Nitrophenol	EPA 625	ND	ug/L	50	11/19/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	50	11/19/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	50	11/19/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
Naphthalene	EPA 625	ND	ug/L	25	11/19/98
Hexachlorobutadiene	EPA 625	ND	ug/L	25	11/19/98
4-Chloroaniline	EPA 625	ND	ug/L	25	11/19/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	25	11/19/98
2-Methylnaphthalene	EPA 625	ND	ug/L	25	11/19/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	25	11/19/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	25	11/19/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	25	11/19/98
2-Chloronaphthalene	EPA 625	ND	ug/L	25	11/19/98
2-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
Dimethyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	25	11/19/98
Acenaphthylene	EPA 625	ND	ug/L	50	11/19/98
3-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
Acenaphthene	EPA 625	ND	ug/L	25	11/19/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	100	11/19/98
4-Nitrophenol	EPA 625	ND	ug/L	25	11/19/98
Dibenzofuran	EPA 625	ND	ug/L	25	11/19/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	25	11/19/98
Diethyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	50	11/19/98
Fluorene	EPA 625	ND	ug/L	25	11/19/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	50	11/19/98
4-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	25	11/19/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	25	11/19/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	25	11/19/98
Hexachlorobenzene	EPA 625	ND	ug/L	50	11/19/98
Pentachlorophenol	EPA 625	ND	ug/L	50	11/19/98
Phenanthrene	EPA 625	ND	ug/L	25	11/19/98
Anthracene	EPA 625	ND	ug/L	25	11/19/98
Di-n-butylphthalate	EPA 625	ND	ug/L	25	11/19/98
Fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzidine	EPA 625	ND	ug/L	100	11/19/98

Bolin Laboratories Inc.

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

Matrix: Storm Water
Sample No: 9810-07630-001

Time Sampled: 17:05
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Pyrene	EPA 625	ND	ug/L	25	11/19/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
Bis(2-ethylhexyl)phthalate	EPA 625	ND	ug/L	50	11/19/98
Benzo (a) anthracene	EPA 625	ND	ug/L	25	11/19/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	25	11/19/98
Chrysene	EPA 625	ND	ug/L	25	11/19/98
Di-n-octylphthalate	EPA 625	ND	ug/L	25	11/19/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzo (a) pyrene	EPA 625	ND	ug/L	25	11/19/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	25	11/19/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	25	11/19/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	25	11/19/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	50	11/19/98
Extraction	EPA 625				10/28/98
Surrogate:	EPA 625				11/19/98
***d5-Phenol	EPA 625	26	% Recovery		11/19/98
***2-Fluorophenol	EPA 625	33	% Recovery		11/19/98
***d5-Nitrobenzene	EPA 625	65	% Recovery		11/19/98
***2-Fluorobiphenyl	EPA 625	74	% Recovery		11/19/98
***2,4,6-Tribromophenol	EPA 625	76	% Recovery		11/19/98
***d14-Terphenyl	EPA 625	86	% Recovery		11/19/98
4,4'-DDD	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDE	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDT	EPA 608	ND	ug/L	2.0	11/06/98
Aldrin	EPA 608	ND C	ug/L	1.0	11/06/98
alpha-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Chlordane	EPA 608	ND	ug/L	1.0	11/06/98
delta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Dieldrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan I	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan II	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan Sulfate	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin Aldehyde	EPA 608	ND C	ug/L	1.0	11/06/98
Heptachlor	EPA 608	ND	ug/L	1.0	11/06/98
Heptachlor Epoxide	EPA 608	ND C	ug/L	1.0	11/06/98
Lindane (gamma BHC)	EPA 608	ND C	ug/L	1.0	11/06/98
PCB 1016	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1221	EPA 608	ND	ug/L	10	11/06/98
PCB 1232	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1242	EPA 608	ND	ug/L	1.0	11/06/98

Bolin Laboratories Inc.

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

Matrix: Storm Water
Sample No: 9810-07630-001

Time Sampled: 17:05
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
PCB 1248	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1254	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1260	EPA 608	ND	ug/L	1.0	11/06/98
Toxaphene	EPA 608	ND	ug/L	1.0	11/06/98
beta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Extraction	EPA 608				10/29/98
Surrogate:	EPA 608				11/06/98
***Dibutylchlorendate	EPA 608	92	% Recovery		11/06/98
Metals Digestion for ICP	EPA 200.7				11/03/98
Metals Digestion for GFAA	SM 3030E				11/03/98
Antimony	SM 3113B	<0.005	mg/L	0.005	11/08/98
Arsenic	SM 3113B	0.014	mg/L	0.005	11/11/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	11/04/98
Calcium	EPA 200.7	42.	mg/L	1.	11/04/98
Copper	EPA 200.7	0.088	mg/L	0.015	11/04/98
Lead	SM 3113B	0.066 D1	mg/L	0.01	11/06/98
Magnesium	EPA 200.7	9.	mg/L	1.	11/04/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium	SM 3113B	<0.005	mg/L	0.005	11/03/98
Silver	EPA 200.7	<0.04	mg/L	0.04	11/04/98
Hardness, Total (Ca & Mg)	SM 2340B	142	mg/L	7.	11/04/98
Zinc	EPA 200.7	0.51	mg/L	0.02	11/04/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Chromium	EPA 218.2	0.025	mg/L	0.002	11/12/98
Cadmium	EPA 213.2	0.0021	mg/L	0.0002	11/11/98
Nickel	EPA 249.2	0.052	mg/L	0.002	11/11/98
Cadmium, Dissolved	EPA 213.2	0.00039	mg/L	0.0002	11/11/98
Chromium, Dissolved	EPA 218.2	0.0032	mg/L	0.002	11/12/98
Nickel, Dissolved	EPA 249.2	0.012	mg/L	0.002	11/11/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	11/25/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/11/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	11/03/98
Copper, Dissolved	EPA 200.7	0.020	mg/L	0.015	11/03/98
Lead, Dissolved	EPA 200.9	0.018	mg/L	0.005	11/06/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/10/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	11/03/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Zinc, Dissolved	EPA 200.7	0.18	mg/L	0.02	11/03/98

For EPA 625 analysis sample was diluted x5 because of matrix.
D1 = Sample was diluted due to high concentration of target analyte.

Bolin Laboratories Inc.

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

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. #AZ003.
Phenol analyzed by McKenzie Labs, Phoenix AZ, #AZ0034.
Total & Dissolved Cadmium, Chromium & Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.

Unable to provide complete Nitrogen data due to laboratory error.
Hexavalent Chromium and pH analyzed past the recommended hold time.

S. Kaufman

Authorized Signatory
ADHS License No.: AZ0004

Data Checksheet

Site	SR-45
Municipality	PHOENIX
Sample Date	10-26 98

Date Received	1-20-99

Laboratory Used	BOLIN
Laboratory Contact	STEPHANIE
FCD Sample ID Number	PHX 3
Lab Sample ID Number	9810-07630-002
Laboratory Invoice Number	47975

Initial Review Complete	✓	Date	2-1-99
Lab Contacted		Date	
Lab Review Complete		Date	
Second Review Complete		Date	
Additional Review Necessary			

Comments

Data Validation Table Complete	✓	Date	2-2-99

Data Entered Into Database	✓	Date	2-2-99

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: 10/26/98
Reported: 12/03/98
Invoice No: 047975

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9810-07630-002
Sample ID: Phx 3 (40th St.)

Time Sampled: 6:53
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chemical Oxygen Demand	EPA 410.4	401. D1	mg/L	100.	11/17/98
P as Total Phosphate	EPA 365.3	2.3 D1	mg/L	1.25	11/17/98
Total Phosphate	CALCULATION		mg/L	0.15	11/17/98
Total Kjeldahl Nitrogen	EPA 351.3	1.0	mg/L	0.5	11/13/98
Solids, Total Suspended	EPA 160.2	430.	mg/L	1.	10/30/98
Total Dissolved Solids	SM 2540C	450.	mg/L	1.	10/30/98
pH	EPA 150.1	6.7	Std Unit		10/27/98
Total Alkalinity (as CaCO3)	SM 2320B	82.	mg/L	2.	10/29/98
Sulfate, Dissolved	SM 4500 SO4	93.	mg/L	5.0	11/13/98
Chloride	EPA 300.0	41.	mg/L	5.0	11/11/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	10/27/98
Nitrogen as Nitrite	SM 4500 NO2 B	<0.01	mg/L	0.1	10/26/98
P as Orthophosphate	SM 4500 PE	<0.05	mg/L	0.05	10/27/98
Phosphorus, Dissolved	EPA 365.3	0.09	mg/L	0.05	11/19/98
Nitrogen as Ammonia	EPA 350.2	2.29	mg/L	0.03	10/29/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	11/06/98
Total Organic Carbon	SM 5310C	87.7	mg/L	0.2	11/16/98
Phenolics, Total	EPA 420.1	0.030	mg/L	0.0050	11/04/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	25	11/19/98
Phenol	EPA 625	ND	ug/L	25	11/19/98
Aniline	EPA 625	ND	ug/L	25	11/19/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	50	11/19/98
2-Chlorophenol	EPA 625	ND	ug/L	50	11/19/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
Benzyl alcohol	EPA 625	ND	ug/L	50	11/19/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
2-Methylphenol	EPA 625	ND	ug/L	25	11/19/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	50	11/19/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	25	11/19/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	25	11/19/98
Hexachloroethane	EPA 625	ND	ug/L	50	11/19/98

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Matrix: Storm Water
Sample No: 9810-07630-002

Time Sampled: 6:53
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Nitrobenzene	EPA 625	ND	ug/L	50	11/19/98
Isophorone	EPA 625	ND	ug/L	50	11/19/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	50	11/19/98
Benzoic acid	EPA 625	ND	ug/L	250	11/19/98
2-Nitrophenol	EPA 625	ND	ug/L	50	11/19/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	50	11/19/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	50	11/19/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	25	11/19/98
Naphthalene	EPA 625	ND	ug/L	25	11/19/98
Hexachlorobutadiene	EPA 625	ND	ug/L	25	11/19/98
4-Chloroaniline	EPA 625	ND	ug/L	25	11/19/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	25	11/19/98
2-Methylnaphthalene	EPA 625	ND	ug/L	25	11/19/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	25	11/19/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	25	11/19/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	25	11/19/98
2-Chloronaphthalene	EPA 625	ND	ug/L	25	11/19/98
2-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
Dimethyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	25	11/19/98
Acenaphthylene	EPA 625	ND	ug/L	50	11/19/98
3-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
Acenaphthene	EPA 625	ND	ug/L	25	11/19/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	100	11/19/98
4-Nitrophenol	EPA 625	ND	ug/L	25	11/19/98
Dibenzofuran	EPA 625	ND	ug/L	25	11/19/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	25	11/19/98
Diethyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	50	11/19/98
Fluorene	EPA 625	ND	ug/L	25	11/19/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	50	11/19/98
4-Nitroaniline	EPA 625	ND	ug/L	25	11/19/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	25	11/19/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	25	11/19/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	25	11/19/98
Hexachlorobenzene	EPA 625	ND	ug/L	50	11/19/98
Pentachlorophenol	EPA 625	ND	ug/L	50	11/19/98
Phenanthrene	EPA 625	ND	ug/L	25	11/19/98
Anthracene	EPA 625	ND	ug/L	25	11/19/98
Di-n-butylphthalate	EPA 625	ND	ug/L	25	11/19/98
Fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzidine	EPA 625	ND	ug/L	100	11/19/98

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Matrix: Storm Water
Sample No: 9810-07630-002

Time Sampled: 6:53
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Pyrene	EPA 625	ND	ug/L	25	11/19/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	25	11/19/98
Bis(2-ethylhexyl)phthalate	EPA 625	ND	ug/L	50	11/19/98
Benzo (a) anthracene	EPA 625	ND	ug/L	25	11/19/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	25	11/19/98
Chrysene	EPA 625	ND	ug/L	25	11/19/98
Di-n-octylphthalate	EPA 625	ND	ug/L	25	11/19/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	25	11/19/98
Benzo (a) pyrene	EPA 625	ND	ug/L	25	11/19/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	25	11/19/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	25	11/19/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	25	11/19/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	50	11/19/98
Extraction	EPA 625				10/28/98
Surrogate:	EPA 625				11/19/98
***d5-Phenol	EPA 625	26	% Recovery		11/19/98
***2-Fluorophenol	EPA 625	31	% Recovery		11/19/98
***d5-Nitrobenzene	EPA 625	63	% Recovery		11/19/98
***2-Fluorobiphenyl	EPA 625	76	% Recovery		11/19/98
***2,4,6-Tribromophenol	EPA 625	72	% Recovery		11/19/98
***d14-Terphenyl	EPA 625	103	% Recovery		11/19/98
4,4'-DDD	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDE	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDT	EPA 608	ND	ug/L	2.0	11/06/98
Aldrin	EPA 608	ND C	ug/L	1.0	11/06/98
alpha-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Chlordane	EPA 608	ND	ug/L	1.0	11/06/98
delta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Dieldrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan I	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan II	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan Sulfate	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin Aldehyde	EPA 608	ND C	ug/L	1.0	11/06/98
Heptachlor	EPA 608	ND	ug/L	1.0	11/06/98
Heptachlor Epoxide	EPA 608	ND C	ug/L	1.0	11/06/98
Lindane (gamma BHC)	EPA 608	ND C	ug/L	1.0	11/06/98
PCB 1016	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1221	EPA 608	ND	ug/L	10	11/06/98
PCB 1232	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1242	EPA 608	ND	ug/L	1.0	11/06/98

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Matrix: Storm Water
Sample No: 9810-07630-002

Time Sampled: 6:53
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
PCB 1248	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1254	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1260	EPA 608	ND	ug/L	1.0	11/06/98
Toxaphene	EPA 608	ND	ug/L	1.0	11/06/98
beta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Extraction	EPA 608				10/29/98
Surrogate:	EPA 608				11/06/98
***Dibutylchlorendate	EPA 608	128	% Recovery		11/06/98
Metals Digestion for ICP	EPA 200.7				11/03/98
Metals Digestion for GFAA	SM 3030E				11/03/98
Antimony	SM 3113B	<0.005	mg/L	0.005	11/08/98
Arsenic	SM 3113B	0.013	mg/L	0.005	11/11/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	11/04/98
Calcium	EPA 200.7	50.	mg/L	1.	11/04/98
Copper	EPA 200.7	0.040	mg/L	0.015	11/04/98
Lead	SM 3113B	<0.005	mg/L	0.005	11/06/98
Magnesium	EPA 200.7	7.	mg/L	1.	11/04/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium	SM 3113B	<0.005	mg/L	0.005	11/03/98
Silver	EPA 200.7	<0.04	mg/L	0.04	11/04/98
Hardness, Total (Ca & Mg)	SM 2340B	154	mg/L	7.	11/04/98
Zinc	EPA 200.7	0.16	mg/L	0.02	11/04/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Chromium	EPA 218.2	0.0045	mg/L	0.001	11/12/98
Cadmium	EPA 213.2	0.00031	mg/L	0.0002	11/11/98
Nickel	EPA 249.2	0.027	mg/L	0.002	11/11/98
Cadmium, Dissolved	EPA 213.2	0.00028	mg/L	0.0002	11/11/98
Chromium, Dissolved	EPA 218.2	0.004	mg/L	0.001	11/12/98
Nickel, Dissolved	EPA 249.2	0.021	mg/L	0.002	11/11/98
Antimony, Dissolved	EPA 200.9	0.006	mg/L	0.004	11/25/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/11/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	11/03/98
Copper, Dissolved	EPA 200.7	0.030	mg/L	0.015	11/03/98
Lead, Dissolved	EPA 200.9	0.008	mg/L	0.005	11/06/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/10/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	11/03/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Zinc, Dissolved	EPA 200.7	0.17	mg/L	0.02	11/03/98

For EPA 625 analysis sample was diluted x5 because of matrix.
C = Continuing Calibration was above method control limits. Data was not impacted.

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* = 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions. This compound was calibrated as azobenzene.
T = Result based on a Tentatively Identified Compound search.

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

Unable to provide complete Nitrogen data due to laboratory error.
Hexavalent Chromium and pH analyzed past the recommended hold time.

S. Kaufman

Authorized Signatory
ADHS License No.: AZ0004

Data Checksheet

Site	IB-08
Municipality	PHOENIX
Sample Date	10-26-98

Date Received	1-20-99

Laboratory Used	BOLIN
Laboratory Contact	STEPHANIE
FCD Sample ID Number	PHX 4
Lab Sample ID Number	9810-07630-003
Laboratory Invoice Number	47975

Initial Review Complete	✓	Date	2-1-99
Lab Contacted		Date	
Lab Review Complete		Date	
Second Review Complete		Date	
Additional Review Necessary			

Comments

Data Validation Table Complete	✓	Date	2-2-99

Data Entered Into Database	✓	Date	2-2-99

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

Received: 10/26/98
Reported: 12/03/98
Invoice No: 047975

Project Name: NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9810-07630-003
Sample ID: Phx 4 (IBW)

Time Sampled: 19:30
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chemical Oxygen Demand	EPA 410.4	40.	mg/L	20.	11/17/98
P as Total Phosphate	EPA 365.3	1.0 D1	mg/L	0.25	11/17/98
Total Phosphate	CALCULATION		mg/L	0.15	11/17/98
Total Kjeldahl Nitrogen	EPA 351.3	0.6	mg/L	0.5	11/13/98
Solids, Total Suspended	EPA 160.2	1,520.	mg/L	1.	10/30/98
Total Dissolved Solids	SM 2540C	173.	mg/L	1.	10/30/98
pH	EPA 150.1	7.2	Std Unit		10/27/98
Total Alkalinity (as CaCO3)	SM 2320B	68.	mg/L	2.	10/29/98
Sulfate, Dissolved	SM 4500 SO4	8.	mg/L	5.0	11/13/98
Chloride	EPA 300.0	5.	mg/L	5.0	11/11/98
Chromium, hexavalent	SM 3500-CR D	<0.010	mg/L	0.010	10/27/98
Nitrogen as Nitrite	SM 4500 NO2 B	0.33 D1	mg/L	0.2	10/26/98
P as Orthophosphate	SM 4500 PE	0.10	mg/L	0.05	10/27/98
Phosphorus, Dissolved	EPA 365.3	0.12	mg/L	0.05	11/19/98
Nitrogen as Ammonia	EPA 350.2	0.90	mg/L	0.03	10/29/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	11/06/98
Total Organic Carbon	SM 5310C	25.6	mg/L	0.2	11/16/98
Phenolics, Total	EPA 420.1	<0.0050	mg/L	0.0050	11/04/98
N-Nitrosodimethylamine	EPA 625	ND	ug/L	5.0	11/19/98
Phenol	EPA 625	ND	ug/L	5.0	11/19/98
Aniline	EPA 625	ND	ug/L	5.0	11/19/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	10.	11/19/98
2-Chlorophenol	EPA 625	ND	ug/L	10.	11/19/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	5.0	11/19/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	5.0	11/19/98
Benzyl alcohol	EPA 625	ND	ug/L	10.	11/19/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	5.0	11/19/98
2-Methylphenol	EPA 625	ND	ug/L	5.0	11/19/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	10.	11/19/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	5.0	11/19/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	5.0	11/19/98
Hexachloroethane	EPA 625	ND	ug/L	10.	11/19/98

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Matrix: Storm Water
Sample No: 9810-07630-003

Time Sampled: 19:30
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Nitrobenzene	EPA 625	ND	ug/L	10.	11/19/98
Isophorone	EPA 625	ND	ug/L	10.	11/19/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	10.	11/19/98
Benzoic acid	EPA 625	ND	ug/L	50.	11/19/98
2-Nitrophenol	EPA 625	ND	ug/L	10.	11/19/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	10.	11/19/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	10.	11/19/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	5.0	11/19/98
Naphthalene	EPA 625	ND	ug/L	5.0	11/19/98
Hexachlorobutadiene	EPA 625	ND	ug/L	5.0	11/19/98
4-Chloroaniline	EPA 625	ND	ug/L	5.0	11/19/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	5.0	11/19/98
2-Methylnaphthalene	EPA 625	ND	ug/L	5.0	11/19/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	5.0	11/19/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	5.0	11/19/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	5.0	11/19/98
2-Chloronaphthalene	EPA 625	ND	ug/L	5.0	11/19/98
2-Nitroaniline	EPA 625	ND	ug/L	5.0	11/19/98
Dimethyl Phthalate	EPA 625	ND	ug/L	5.0	11/19/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	5.0	11/19/98
Acenaphthylene	EPA 625	ND	ug/L	10.	11/19/98
3-Nitroaniline	EPA 625	ND	ug/L	5.0	11/19/98
Acenaphthene	EPA 625	ND	ug/L	5.0	11/19/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	20.	11/19/98
4-Nitrophenol	EPA 625	ND	ug/L	5.0	11/19/98
Dibenzofuran	EPA 625	ND	ug/L	5.0	11/19/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	5.0	11/19/98
Diethyl Phthalate	EPA 625	ND	ug/L	5.0	11/19/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	10.	11/19/98
Fluorene	EPA 625	ND	ug/L	5.0	11/19/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	10.	11/19/98
4-Nitroaniline	EPA 625	ND	ug/L	5.0	11/19/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	5.0	11/19/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	5.0	11/19/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	5.0	11/19/98
Hexachlorobenzene	EPA 625	ND	ug/L	10.	11/19/98
Pentachlorophenol	EPA 625	ND	ug/L	10.	11/19/98
Phenanthrene	EPA 625	ND	ug/L	5.0	11/19/98
Anthracene	EPA 625	ND	ug/L	5.0	11/19/98
Di-n-butylphthalate	EPA 625	ND	ug/L	5.0	11/19/98
Fluoranthene	EPA 625	ND	ug/L	5.0	11/19/98
Benzidine	EPA 625	ND	ug/L	20.	11/19/98

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Matrix: Storm Water
Sample No: 9810-07630-003

Time Sampled: 19:30
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Pyrene	EPA 625	ND	ug/L	5.0	11/19/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	5.0	11/19/98
Bis(2-ethylhexyl)phthalate	EPA 625	13.0	ug/L	10.	11/19/98
Benzo (a) anthracene	EPA 625	ND	ug/L	5.0	11/19/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	5.0	11/19/98
Chrysene	EPA 625	ND	ug/L	5.0	11/19/98
Di-n-octylphthalate	EPA 625	ND	ug/L	5.0	11/19/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	5.0	11/19/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	5.0	11/19/98
Benzo (a) pyrene	EPA 625	ND	ug/L	5.0	11/19/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	5.0	11/19/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	5.0	11/19/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	5.0	11/19/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	10.	11/19/98
Extraction	EPA 625				10/28/98
Surrogate:	EPA 625				11/19/98
***d5-Phenol	EPA 625	14 S	% Recovery		11/19/98
***2-Fluorophenol	EPA 625	21	% Recovery		11/19/98
***d5-Nitrobenzene	EPA 625	43	% Recovery		11/19/98
***2-Fluorobiphenyl	EPA 625	45	% Recovery		11/19/98
***2,4,6-Tribromophenol	EPA 625	61	% Recovery		11/19/98
***d14-Terphenyl	EPA 625	61	% Recovery		11/19/98
4,4'-DDD	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDE	EPA 608	ND C	ug/L	1.0	11/06/98
4,4'-DDT	EPA 608	ND	ug/L	2.0	11/06/98
Aldrin	EPA 608	ND C	ug/L	1.0	11/06/98
alpha-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Chlordane	EPA 608	ND	ug/L	1.0	11/06/98
delta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Dieldrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan I	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan II	EPA 608	ND C	ug/L	1.0	11/06/98
Endosulfan Sulfate	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin	EPA 608	ND C	ug/L	1.0	11/06/98
Endrin Aldehyde	EPA 608	ND C	ug/L	1.0	11/06/98
Heptachlor	EPA 608	ND	ug/L	1.0	11/06/98
Heptachlor Epoxide	EPA 608	ND C	ug/L	1.0	11/06/98
Lindane (gamma BHC)	EPA 608	ND C	ug/L	1.0	11/06/98
PCB 1016	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1221	EPA 608	ND	ug/L	10	11/06/98
PCB 1232	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1242	EPA 608	ND	ug/L	1.0	11/06/98

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Matrix: Storm Water
Sample No: 9810-07630-003

Time Sampled: 19:30
Date Sampled: 10/25/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
PCB 1248	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1254	EPA 608	ND	ug/L	1.0	11/06/98
PCB 1260	EPA 608	ND	ug/L	1.0	11/06/98
Toxaphene	EPA 608	ND	ug/L	1.0	11/06/98
beta-BHC	EPA 608	ND C	ug/L	1.0	11/06/98
Extraction	EPA 608				10/29/98
Surrogate:	EPA 608				11/06/98
***Dibutylchlorendate	EPA 608	120	% Recovery		11/06/98
Metals Digestion for ICP	EPA 200.7				11/03/98
Metals Digestion for GFAA	SM 3030E				11/03/98
Antimony	SM 3113B	<0.005	mg/L	0.005	11/08/98
Arsenic	SM 3113B	0.006	mg/L	0.005	11/11/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	11/04/98
Calcium	EPA 200.7	51.	mg/L	1.	11/04/98
Copper	EPA 200.7	0.055	mg/L	0.015	11/04/98
Lead	SM 3113B	0.077 D1	mg/L	0.01	11/06/98
Magnesium	EPA 200.7	12.	mg/L	1.	11/04/98
Mercury	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium	SM 3113B	<0.005	mg/L	0.005	11/03/98
Silver	EPA 200.7	<0.04	mg/L	0.04	11/04/98
Hardness, Total (Ca & Mg)	SM 2340B	176	mg/L	7.	11/04/98
Zinc	EPA 200.7	0.30	mg/L	0.02	11/04/98
Thallium	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Chromium	EPA 218.2	0.019	mg/L	0.001	11/12/98
Cadmium	EPA 213.2	0.00088	mg/L	0.0002	11/11/98
Nickel	EPA 249.2	0.030	mg/L	0.002	11/11/98
Cadmium, Dissolved	EPA 213.2	0.00023	mg/L	0.0002	11/11/98
Chromium, Dissolved	EPA 218.2	0.0034	mg/L	0.001	11/12/98
Nickel, Dissolved	EPA 249.2	0.010	mg/L	0.002	11/11/98
Antimony, Dissolved	EPA 200.9	<0.004	mg/L	0.004	11/25/98
Arsenic, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/11/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	11/03/98
Copper, Dissolved	EPA 200.7	0.016	mg/L	0.015	11/03/98
Lead, Dissolved	EPA 200.9	0.022	mg/L	0.005	11/06/98
Mercury, Dissolved	EPA 245.1	<0.0002	mg/L	0.0002	11/05/98
Selenium, Dissolved	EPA 200.9	<0.005	mg/L	0.005	11/10/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	11/03/98
Thallium, Dissolved	EPA 200.9	<0.001	mg/L	0.001	11/04/98
Zinc, Dissolved	EPA 200.7	0.08	mg/L	0.02	11/03/98

D1 = Sample was diluted due to high concentration of target analyte.
C = Continuing Calibration was above method control limits. Data was not impacted.

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* = 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions. This compound was calibrated as azobenzene.
S = Surrogate recovery was confirmed outside the laboratory acceptance limits due to matrix interference. Data may have been impacted, but is considered valid.
T = Result based on a Tentatively Identified Compound search.

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

Unable to provide complete Nitrogen data due to laboratory error.
Hexavalent Chromium and pH analyzed past the recommended hold time.

S. Kaufman

Authorized Signatory
ADHS License No.: AZ0004

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Quality Control Data Report

Client: MCFCD
Bolin Sample ID: 9810-7630 Diss

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	11/3/98	0.2	106	108	<PQL	106	100
Copper	EPA 200.7	11/3/98	1	102	104	<PQL	102	96
Silver	EPA 200.7	11/3/98	0.5	80	78	<PQL	106	105
Zinc	EPA 200.7	11/3/98	1	119	121	<PQL	106	107
Antimony	EPA 200.9/SM 3113B	11/25/98	0.020	115	125	<PQL	90	95
Arsenic	EPA 200.9/SM 3113B	11/11/98	0.020	130	120	<PQL	90	90
Lead	EPA 200.9/SM 3113B	11/6/98	0.020	100	105	<PQL	100	95
Selenium	EPA 200.9/SM 3113B	11/10/98	0.020	70	75	<PQL	100	100
Thallium	EPA 200.9/SM 3113B	11/4/98	0.020	60	85	<PQL	95	90
Mercury	EPA 245.1	11/5/98	0.005	94	90	<PQL	94	94

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: 9810-7630 Total

Analyte	Method	Date Analyzed	Spk Conc. (ppm)	MS %Rec	MSD %Rec	Blk (ppm)	ICV %Rec	CCV %Rec
Beryllium	EPA 200.7	11/4/98	0.2	101	100	<PQL	103	104
Calcium	EPA 200.7	11/4/98	30	103	105	<PQL	103	105
Copper	EPA 200.7	11/4/98	1	98	99	<PQL	95	101
Magnesium	EPA 200.7	11/4/98	30	96	98	<PQL	97	102
Silver	EPA 200.7	11/4/98	0.5	100	100	<PQL	100	104
Zinc	EPA 200.7	11/4/98	1	104	106	<PQL	102	102
Antimony	EPA 200.9/SM 3113B	11/8/98	0.020	80	100	<PQL	100	100
Arsenic	EPA 200.9/SM 3113B	11/11/98	0.020	100	100	<PQL	95	100
Lead	EPA 200.9/SM 3113B	11/6/98	0.020	85	90	<PQL	90	90
Selenium	EPA 200.9/SM 3113B	11/3/98	0.020	95	110	<PQL	100	110
Thallium	EPA 200.9/SM 3113B	11/4/98	0.020	114	122	<PQL	104	98
Mercury	EPA 245.1	11/5/98	0.005	94	90	<PQL	92	94

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
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Quality Control Data Report

Client: Maricopa County Flood Control
Bolin Sample ID: 9810-7630-1-3

Analyte	Method	Date Analyzed	Spk Conc. (ppb)	BS Conc.	BS %Rec	BSD Conc.	BSD %Rec	RPD	BLK (ppb)
N-nitrosodimethylamine	EPA 625	11/19/98	100	32	32	31	31	3	<PQL
Phenol	EPA 625	11/19/98	200	43	22	38	19	12	<PQL
Aniline	EPA 625	11/19/98	100	32	32	42	42	27 *	<PQL
Bis(2-chloroethyl)ether	EPA 625	11/19/98	100	74	74	80	80	8	<PQL
2-Chlorophenol	EPA 625	11/19/98	200	119	60	120	60	1	<PQL
1,3-Dichlorobenzene	EPA 625	11/19/98	100	41	41	42	42	2	<PQL
1,4-Dichlorobenzene	EPA 625	11/19/98	100	42	42	43	43	2	<PQL
Benzyl Alcohol	EPA 625	11/19/98	100	51	51	53	53	4	<PQL
1,2-Dichlorobenzene	EPA 625	11/19/98	100	44	44	45	45	2	<PQL
Bis(2-chloroisopropyl)ether	EPA 625	11/19/98	100	51	51	56	56	9	<PQL
4-methylphenol	EPA 625	11/19/98	200	84	42	78	39	7	<PQL
N-Nitrosodi-n-propylamine	EPA 625	11/19/98	100	60	60	60	60	0	<PQL
Hexachloroethane	EPA 625	11/19/98	100	40	40	40	40	0	<PQL
Benzoic Acid	EPA 625	11/19/98	100	40	40	38	38	5	<PQL
Nitrobenzene	EPA 625	11/19/98	100	80	80	75	75	6	<PQL
Isophorone	EPA 625	11/19/98	100	64	64	61	61	5	<PQL
2-Nitrophenol	EPA 625	11/19/98	200	68	34	115	58	51 *	<PQL
2,4-Dimethylphenol	EPA 625	11/19/98	200	105	53	107	54	2	<PQL
bis(2-Chloroethoxy)methane	EPA 625	11/19/98	100	60	60	61	61	2	<PQL
2,4-Dichlorophenol	EPA 625	11/19/98	200	123	62	122	61	1	<PQL
1,2,4-Trichlorobenzene	EPA 625	11/19/98	100	50	50	51	51	2	<PQL
Naphthalene	EPA 625	11/19/98	100	53	53	53	53	0	<PQL
4-chloroaniline	EPA 625	11/19/98	100	71	71	79	79	11	<PQL
Hexachlorobutadiene	EPA 625	11/19/98	100	44	44	44	44	0	<PQL
2-methylnaphthalene	EPA 625	11/19/98	100	55	55	53	53	4	<PQL
4-Chloro-3-methylphenol	EPA 625	11/19/98	200	135	68	121	61	11	<PQL
Hexachlorocyclopentadiene	EPA 625	11/19/98	100	43	43	42	42	2	<PQL
2,4,6-Trichlorophenol	EPA 625	11/19/98	200	131	66	122	61	7	<PQL
2,4,5-Trichlorophenol	EPA 625	11/19/98	200	129	65	122	61	6	<PQL
2-Chloronaphthalene	EPA 625	11/19/98	100	59	59	55	55	7	<PQL
2-nitroaniline	EPA 625	11/19/98	100	66	66	61	61	8	<PQL
Acenaphthylene	EPA 625	11/19/98	100	63	63	57	57	10	<PQL
Dimethyl phthalate	EPA 625	11/19/98	100	68	68	65	65	5	<PQL

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2,6-Dinitrotoluene	EPA 625	11/19/98	100	69	69	67	67	3	<PQL
Acenaphthene	EPA 625	11/19/98	100	67	67	66	66	2	<PQL
3-nitroaniline	EPA 625	11/19/98	100	71	71	74	74	4	<PQL
2,4-Dinitrophenol	EPA 625	11/19/98	200	142	71	152	76	7	<PQL
Dibenzofuran	EPA 625	11/19/98	100	71	71	71	71	0	<PQL
2,4-Dinitrotoluene	EPA 625	11/19/98	100	76	76	73	73	4	<PQL
4-Nitrophenol	EPA 625	11/19/98	200	75	38	67	34	11	<PQL
Fluorene	EPA 625	11/19/98	100	73	73	74	74	1	<PQL
Diethylphthalate	EPA 625	11/19/98	100	82	82	79	79	4	<PQL
4-Chlorophenylphenylether	EPA 625	11/19/98	100	74	74	69	69	7	<PQL
4-nitroaniline	EPA 625	11/19/98	100	70	70	74	74	6	<PQL
2-Methyl-4,6-dinitrophenol	EPA 625	11/19/98	200	282	141	280	140	1	<PQL
Diphenylamine	EPA 625	11/19/98	100	70	70	68	68	3	<PQL
Azobenzene	EPA 625	11/19/98	100	78	78	76	76	3	<PQL
4-Bromophenoxybenzene	EPA 625	11/19/98	100	66	66	67	67	2	<PQL
Hexachlorobenzene	EPA 625	11/19/98	100	83	83	81	81	2	<PQL
Pentachlorophenol	EPA 625	11/19/98	200	136	68	141	71	4	<PQL
Phenanthrene	EPA 625	11/19/98	100	81	81	77	77	5	<PQL
Anthracene	EPA 625	11/19/98	100	82	82	79	79	4	<PQL
Di-n-butylphthalate	EPA 625	11/19/98	100	104	104	97	97	7	<PQL
Fluoranthene	EPA 625	11/19/98	100	94	94	91	91	3	<PQL
Pyrene	EPA 625	11/19/98	100	75	75	76	76	1	<PQL
Benzidine	EPA 625	11/19/98	100	27	27	25	25	8	<PQL
Butylbenzylphthalate	EPA 625	11/19/98	100	83	83	81	81	2	<PQL
Benzo(a)anthracene	EPA 625	11/19/98	100	76	76	74	74	3	<PQL
Chrysene	EPA 625	11/19/98	100	83	83	81	81	2	<PQL
3,3'-Dichlorobenzidine	EPA 625	11/19/98	100	113	113	107	107	5	<PQL
bis(2-Ethylhexyl)phthalate	EPA 625	11/19/98	100	82	82	82	82	0	<PQL
Di-n-octylphthalate	EPA 625	11/19/98	100	56	56	54	54	4	<PQL
Benzo(b)fluoranthene	EPA 625	11/19/98	100	54	54	53	53	2	<PQL
Benzo(k)fluoranthene	EPA 625	11/19/98	100	54	54	52	52	4	<PQL
Benzo(a)pyrene	EPA 625	11/19/98	100	57	57	55	55	4	<PQL
Indeno(1,2,3-cd)pyrene	EPA 625	11/19/98	100	50	50	48	48	4	<PQL
Dibenzo(a,h)anthracene	EPA 625	11/19/98	100	55	55	53	53	4	<PQL
Benzo(g,h,I)perylene	EPA 625	11/19/98	100	52	52	51	51	2	<PQL

*=RPD out of criteria probably because of Benzene in the standard which was affecting recoveries of analytes.

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: 9810-7630 (1-3)

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	11/6/98	5.0	<PQL	3.98	80	4.35	87	9	128*	124*
Beta-BHC	EPA 608	11/6/98	5.0	<PQL	4.22	84	4.57	91	8	144*	143*
Gamma(Lindane)-BHC	EPA 608	11/6/98	5.0	<PQL	4.40	88	4.73	95	7	143*	135*
Delta-BHC	EPA 608	11/6/98	5.0	<PQL	4.21	84	4.59	92	9	132*	127*
Heptachlor	EPA 608	11/6/98	5.0	<PQL	3.85	77	4.24	85	10	106	95
Aldrin	EPA 608	11/6/98	5.0	<PQL	4.22	84	4.36	87	3	128*	125*
Heptachlor Epoxide	EPA 608	11/6/98	5.0	<PQL	4.32	86	4.62	92	7	132*	124*
Endosulfan I	EPA 608	11/6/98	5.0	<PQL	4.34	87	4.44	89	2	131*	127*
Dieldrin	EPA 608	11/6/98	5.0	<PQL	4.27	85	4.59	92	7	142*	136*
4,4,-DDE	EPA 608	11/6/98	5.0	<PQL	3.91	78	4.24	85	8	117*	114
Endrin	EPA 608	11/6/98	5.0	<PQL	4.65	93	4.93	99	6	150*	139*
Endosulfan II	EPA 608	11/6/98	5.0	<PQL	4.60	92	4.81	96	4	154*	148*
4,4-DDD	EPA 608	11/6/98	5.0	<PQL	4.60	92	4.80	96	4	154*	148*
Endrin Aldehyde	EPA 608	11/6/98	5.0	<PQL	5.66	113	6.87	137	19	143*	137*
Endosulfan Sulfate	EPA 608	11/6/98	5.0	<PQL	4.68	94	4.92	98	5	140*	132*
4,4-DDT	EPA 608	11/6/98	5.0	<PQL	4.62	92	4.78	96	3	104	90

ICV Initial Calibration Verification
CCV Continuing Calibration Verification
BLK is a Blank
BLK-SPK is a Blank Spike

Bolin Laboratories Inc.

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Quality Control Data Report

Client: Maricopa County Flood Control District
Bolin Sample ID: 9810-7630

Analyte	Method	Date Analyzed	Spk Conc	MS %Rec	MSD %Rec	RPD	Blk	ICV %Rec	CCV %Rec
Solids, Total Suspended	160.2		N/A	N/A	N/A	######	<1.0		-
Chemical Oxygen Demand	410.4	11/9/98	30	94	100	6.1856	<20	104	93
Total Dissolved Solids	SM 2540C	10/30/98	N/A	N/A	N/A	######	<1.0	98	-
Total Phosphorous	365.3	11/17/98	0.1	86	89	3.4286	<0.05	95	103
Dissolved Phosphorous	365.2	11/19/98	0.1	93	98	5.2356	<0.01	100	100
Nitrite	SM 4500 NO2 B	10/27/98	0.1	98	100	2.0202	<0.01	109	109
Nitrate	SM 4500 NO3 E	11/16/98	0.565	103	96	7.0352	<0.05	102	99
Hexavalent Chromium	SM 3500	10/27/98	0.2	93	90	3.2787	<0.01	99	101
Total Cyanide	335.2	11/6/98	0.05	92	89	3.3149	<0.01	104	94
Alkalinity	SM 2320B	10/29/98	100	98	98	0	<2.0	97	-
Sulfate	SM 4500 SO4	11/13/99	20	107	103	3.8095	<5.0	92	109
Chloride	SM 4500 CL-B	11/11/99	20	103	103	0	<5.0	96	-
Ortho-Phosphate	365.3	10/27/98	0.1	101	97	4.0404	<0.05	96	110
Total Kjeldahl Nitrogen	351.4	11/13/98	2	92	104	12.245	<0.5	103	103
Total Organic Carbons	SM 5310C	11/16/98	5	98	100	2.0202	0.1	95	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

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:	NH_3	UNITS:	mg/L
METHOD NO.:	350.2	ANALYST:	SLM
ANALYSIS DATE:	10/29/98	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-10470	0.10	0.08	22.2
BD-10678	0.26	0.24	8.0
BD-10687	< 0.03	< 0.03	0.0

SPIKED SAMPLE DATA

Lab I.D.	Sample Result	Spike Result	Amount Spiked	% Recovery
BD-10470	0.09	1.08	1.00	99
BD-10678	0.25	1.20	1.00	95
BD-10687	<0.03	1.01	1.00	101

Reagent Blank = <0.03

File No. QC-NH3-10470

BC LABORATORIES

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

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

Date of Report: 12/09/98
Sample Matrix: DIGESTATES

Samples Affected: 98-13127-1 - 98-13127-9

Constituents	Method Blank Readings	Units
Dissolved Cadmium	< 0.2	µg/L
Dissolved Chromium	< 1.	µg/L
Dissolved Nickel	< 2.0	µg/L

Quality Control Officer

Anthony Bonanno

BC LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT
(Precision & Accuracy)

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

Date of Report: 12/09/98
Sample Matrix: DIGESTATES

Samples Affected: 98-13127-1 - 98-13127-9

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	12866-1	< 0.2	< 0.2	2.518	2.679	2.500	2.500	µg/L	<PQL	6.	20	100.	107.	85 - 115
Dissolved Chromium	13127-1-X4	4.64	4.44	45.52	46.	40.00	40.00	µg/L	<PQL	1.	20	102.	103.	85 - 115
Dissolved Nickel	13127-1	15.39	14.6	37.9	38.48	25.00	25.00	µg/L	5.	2.	20	90.	92.	85 - 115

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

There are no matrix spikes associated with the total metals. The samples were digested before BCL received the samples.

Quality Control Officer

Anthony Sorrento

LABORATORIES

B C LABORATORIES
QUALITY CONTROL REPORT
(Laboratory Control Sample)

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

Date of Report: 12/09/98
Sample Matrix: DIGESTATES

Samples Affected: 98-13127-1 - 98-13127-9

Constituents	QC Sample ID	Sample Result	Spike Level	Units	% Rec	Accuracy Control Limits
Dissolved Cadmium	LCSW	2.689	2.5	µg/L	108.	85 - 115
Dissolved Chromium	LCSW	10.46	10.	µg/L	105.	85 - 115
Dissolved Nickel	LCSW	27.3	25.	µg/L	109.	85 - 115

Quality Control Officer

Anthony Bonanno

McKENZIE LABORATORIES

Date: 12-Nov-98

CLIENT: Bolin Laboratories Inc
Work Order: 9810298
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	11/4/98	11/4/98	HO	420.1-11/5/98
Phenolics, Total Recoverable	<0.0050	0.0050		mg/L	1	EPA420.1	11/5/98	11/5/98	HO	420.1-11/6/98

McKENZIE LABORATORIES

Date: 12-Nov-98

CLIENT: Bolin Laboratories Inc
Work Order: 9810298
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: **9810290-03AD** Batch ID: 420.1-11/5/98											
Client ID:											
Phenolics, Total Recoverable	<0.0050	0.0050	mg/L	<0.0050	0%	20	EPA420.1	11/4/98	11/4/98	HO	
Sample ID: **9810327-01AD** Batch ID: 420.1-11/6/98											
Client ID:											
Phenolics, Total Recoverable	<0.0050	0.0050	mg/L	<0.0050	0%	20	EPA420.1	11/5/98	11/5/98	HO	

McKENZIE LABORATORIES

Date: 12-Nov-98

CLIENT: Bolin Laboratories Inc
Work Order: 9810298
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: **9810290-03AS**	Batch ID: 420.1-11/5/98			Test Code: EPA420.1				Date Analyzed: 11/4/98			
Client ID:				Units: mg/L				Date Prepared: 11/4/98			
Phenolics, Total Recoverable	0.1003	0.0050	0.1	<0.0050	100%	80	120				
Sample ID: **9810327-01AS**	Batch ID: 420.1-11/6/98			Test Code: EPA420.1				Date Analyzed: 11/5/98			
Client ID:				Units: mg/L				Date Prepared: 11/5/98			
Phenolics, Total Recoverable	0.09600	0.0050	0.1	<0.0050	96%	80	120				

McKENZIE LABORATORIES

Date: 12-Nov-98

CLIENT: Bolin Laboratories Inc
Work Order: 9810298
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: 420.1-11/5/98			Test Code: EPA420.1				Date Analyzed: 11/4/98			
				Units: mg/L				Date Prepared: 11/4/98			
Phenolics, Total Recoverable	0.09570	0.0050	0.1	<0.0050	96%	85	115				
Sample ID: **LCS**	Batch ID: 420.1-11/6/98			Test Code: EPA420.1				Date Analyzed: 11/5/98			
				Units: mg/L				Date Prepared: 11/5/98			
Phenolics, Total Recoverable	0.08810	0.0050	0.1	<0.0050	88%	85	115				

McKENZIE LABORATORIES

Date: 12-Nov-98

CLIENT: Bolin Laboratories Inc
Work Order: 9810298
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: 420.1-11/5/98			Test Code: EPA420.1				Date Analyzed: 11/4/98			
				Units: mg/L				Date Prepared: 11/4/98			
Phenolics, Total Recoverable	0.09920	0.0050	0.1	<0.0050	99%	85	115				
Sample ID: **LCSV**	Batch ID: 420.1-11/6/98			Test Code: EPA420.1				Date Analyzed: 11/5/98			
				Units: mg/L				Date Prepared: 11/5/98			
Phenolics, Total Recoverable	0.07080	0.0050	0.1	<0.0050	71%	85	115				S

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. 9810-07630

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						

SAMPLE TYPE CODES

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

TURN AROUND TIME

❑ Standard 10 - 15 Day
❑ Standard UST 3 to 5 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)	NPDES Composite Params	Dissolved Metals	COD, Phos, TKN, TSS	TDS, pH, Alk	SO4, Cl	Cr, Hg, Cu	BOD	Cd, Zn, Pb	Ag, Se	As, Ni	Tl, Sb	LAB NO.
PHX 1	10/25/98	1705	35TH AVE	X		SW		6		X											-01
PHX 3	10/25/98	0653	40TH ST	X		SW		6		X											-02
PHX 4	10/25/98	1930	IBW	X		SW		6		X											-03

Comments / Special Instructions: don't run anything past hold time
As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn

SAMPLE CONDITION UPON RECEIPT

No. of Containers	36
Temperature Blank	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: 10/26/98	Signature: [signature]	Date: [illegible]
	Printed Name: DAVID GARDNER	Time: 1230	Printed Name: [illegible]	Time: [illegible]
②	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time
③	Signature	Date	Signature	Date
	Printed Name	Time	Printed Name	Time

Data Checksheet

Site	PHX SR-45
Municipality	PHX
Sample Date	12-15-98

Date Received	2-3-99

Laboratory Used	BOLIN
Laboratory Contact	STEPHANIE
FCD Sample ID Number	P3121598C
Lab Sample ID Number	9812-09136-001
Laboratory Invoice Number	49521

Initial Review Complete	✓	Date	2-10-99
Lab Contacted	—	Date	
Lab Review Complete	—	Date	
Second Review Complete	—	Date	
Additional Review Necessary	—		

Comments

Data Validation Table Complete		Date	2-10-99
Data Entered Into Database	✓	Date	2-10-99

Bolin Laboratories Inc.

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(602) 942 8220 • FAX (602) 942 1050

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

Received: 12/15/98
Reported: 1/25/99
Invoice No: 049521

Project Name: Phoenix NPDES Stormwater Analysis

Matrix: Storm Water
Sample No: 9812-09136-001
Sample ID: P3121598C (PHX 3)

Time Sampled: 13:30
Date Sampled: 12/15/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Chemical Oxygen Demand	EPA 410.4	159.	mg/L	20.	12/29/99
P as Total Phosphate	EPA 365.3	1.3 D1	mg/L	0.3	12/23/98
Total Phosphate	CALCULATION	4.0	mg/L	0.15	12/23/98
Solids, Total Suspended	EPA 160.2	802.	mg/L	1.	12/18/98
Total Dissolved Solids	SM 2540C	231.	mg/L	1.	12/17/98
Nitrogen as Nitrite	SM 4500 NO2	0.13	mg/L	0.05	12/16/98
Nitrogen, Total	CALCULATION	7.69	mg/L		12/22/98
P as Orthophosphate	SM 4500 PE	0.23	mg/L	0.05	12/16/98
Nitrogen as Ammonia	EPA 350.2	1.85	mg/L	0.03	12/18/98
Organic Nitrogen	CALCULATION	5.84	mg/L		12/22/98
Cyanide, Total	SM 4500 CN E	<0.01	mg/L	0.01	12/22/98
Phenolics, Total	EPA 420.1	0.011	mg/L	0.0050	1/04/99
4,4'-DDD	EPA 608	ND C	ug/L	1.0	1/01/99
4,4'-DDE	EPA 608	ND	ug/L	1.0	1/01/99
4,4'-DDT	EPA 608	ND	ug/L	2.0	1/01/99
Aldrin	EPA 608	ND	ug/L	1.0	1/01/99
alpha-BHC	EPA 608	ND	ug/L	1.0	1/01/99
Chlordane	EPA 608	ND	ug/L	1.0	1/01/99
delta-BHC	EPA 608	ND C	ug/L	1.0	1/01/99
Dieldrin	EPA 608	ND C	ug/L	1.0	1/01/99
Endosulfan I	EPA 608	ND C	ug/L	1.0	1/01/99
Endosulfan II	EPA 608	ND C	ug/L	1.0	1/01/99
Endosulfan Sulfate	EPA 608	ND	ug/L	1.0	1/01/99
Endrin	EPA 608	ND C	ug/L	1.0	1/01/99
Endrin Aldehyde	EPA 608	ND	ug/L	1.0	1/01/99
Heptachlor	EPA 608	ND C	ug/L	1.0	1/01/99
Heptachlor Epoxide	EPA 608	ND C	ug/L	1.0	1/01/99
Lindane (gamma BHC)	EPA 608	ND C	ug/L	1.0	1/01/99
PCB 1016	EPA 608	ND	ug/L	1.0	1/01/99
PCB 1221	EPA 608	ND	ug/L	10	1/01/99
PCB 1232	EPA 608	ND	ug/L	1.0	1/01/99
PCB 1242	EPA 608	ND	ug/L	1.0	1/01/99

Bolin Laboratories Inc.

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Matrix: Storm Water
Sample No: 9812-09136-001

Time Sampled: 13:30
Date Sampled: 12/15/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
PCB 1248	EPA 608	ND	ug/L	1.0	1/01/99
PCB 1254	EPA 608	ND	ug/L	1.0	1/01/99
PCB 1260	EPA 608	ND	ug/L	1.0	1/01/99
Toxaphene	EPA 608	ND	ug/L	1.0	1/01/99
beta-BHC	EPA 608	ND C	ug/L	1.0	1/01/99
Extraction	EPA 608				12/21/98
Surrogate:	EPA 608				1/01/99
***Dibutylchlorendate	EPA 608	105	% Recovery		1/01/99
Metals Digestion for ICP	EPA 200.7				12/16/98
Metals Digestion for GFAA	SM 3030E				12/16/98
Arsenic	SM 3113B	0.006	mg/L	0.005	12/21/98
Beryllium	EPA 200.7	<0.002	mg/L	0.002	12/30/98
Copper	EPA 200.7	0.291	mg/L	0.015	12/21/98
Lead	SM 3113B	0.112 D1	mg/L	0.02	12/28/98
Silver	EPA 200.7	<0.04	mg/L	0.04	12/18/98
Hardness, Total (Ca & Mg)	SM 2340B	199	mg/L	7.	12/29/98
Zinc	EPA 200.7	0.84	mg/L	0.02	12/21/98
Arsenic, Dissolved	EPA 200.9	0.005	mg/L	0.005	12/30/98
Beryllium, Dissolved	EPA 200.7	<0.002	mg/L	0.002	12/18/98
Copper, Dissolved	EPA 200.7	0.061	mg/L	0.015	12/18/98
Lead, Dissolved	EPA 200.9	0.018	mg/L	0.005	12/28/98
Silver, Dissolved	EPA 200.7	<0.05	mg/L	0.05	12/18/98
Zinc, Dissolved	EPA 200.7	0.18	mg/L	0.02	1/05/99
Nitrogen as Nitrate	CALCULATION	<0.05	mg/L	0.05	12/29/98
Nitrate plus Nitrite	SM 4500 NO3E	<0.05	mg/L	0.05	12/28/98
Biochemical Oxygen Demand	EPA 405.1	105.	mg/L	1.0	12/17/98
Total Kjeldahl Nitrogen	EPA 351.3	7.69	mg/L	0.03	12/22/98
Calcium	EPA 200.7	60.	mg/L	1.	12/29/98
Magnesium	EPA 200.7	12.	mg/L	1.	12/29/98
Cadmium	EPA 213.2	0.00025	mg/L	0.0002	12/29/98
Chromium	EPA 218.2	<0.001	mg/L	0.001	1/05/99
Nickel	EPA 249.2	0.0034	mg/L	0.001	12/28/98
Cadmium, Dissolved	EPA 213.2	0.00023	mg/L	0.0002	1/05/99
Chromium, Dissolved	EPA 218.2	0.001	mg/L	0.001	1/05/99
Nickel, Dissolved	EPA 249.2	0.0033	mg/L	0.001	1/05/99
N-Nitrosodimethylamine	EPA 625	ND	ug/L	5.0	12/22/98
Phenol	EPA 625	ND	ug/L	5.0	12/22/98
Aniline	EPA 625	ND	ug/L	5.0	12/22/98
Bis(2-chloroethyl)ether	EPA 625	ND	ug/L	10.	12/22/98
2-Chlorophenol	EPA 625	ND	ug/L	10.	12/22/98
1,3-Dichlorobenzene	EPA 625	ND	ug/L	5.0	12/22/98
1,4-Dichlorobenzene	EPA 625	ND	ug/L	5.0	12/22/98

Bolin Laboratories Inc.

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

Matrix: Storm Water
Sample No: 9812-09136-001

Time Sampled: 13:30
Date Sampled: 12/15/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Benzyl alcohol	EPA 625	ND	ug/L	10.	12/22/98
1,2-Dichlorobenzene	EPA 625	ND	ug/L	5.0	12/22/98
2-Methylphenol	EPA 625	ND	ug/L	5.0	12/22/98
Bis(2-chloroisopropyl)ether	EPA 625	ND	ug/L	10.	12/22/98
4-Methylphenol (p-Cresol)	EPA 625	ND	ug/L	5.0	12/22/98
N-Nitrosodi-n-propylamine	EPA 625	ND	ug/L	5.0	12/22/98
Hexachloroethane	EPA 625	ND	ug/L	10.	12/22/98
Nitrobenzene	EPA 625	ND	ug/L	10.	12/22/98
Isophorone	EPA 625	ND	ug/L	10.	12/22/98
2,4-Dimethylphenol	EPA 625	ND	ug/L	10.	12/22/98
Benzoic acid	EPA 625	ND	ug/L	50.	12/22/98
2-Nitrophenol	EPA 625	ND	ug/L	10.	12/22/98
Bis(2-chloroethoxy)methane	EPA 625	ND	ug/L	10.	12/22/98
2,4-Dichlorophenol	EPA 625	ND	ug/L	10.	12/22/98
1,2,4-Trichlorobenzene	EPA 625	ND	ug/L	5.0	12/22/98
Naphthalene	EPA 625	ND	ug/L	5.0	12/22/98
Hexachlorobutadiene	EPA 625	ND	ug/L	5.0	12/22/98
4-Chloroaniline	EPA 625	ND	ug/L	5.0	12/22/98
4-Chloro-3-methylphenol	EPA 625	ND	ug/L	5.0	12/22/98
2-Methylnaphthalene	EPA 625	ND	ug/L	5.0	12/22/98
Hexachlorocyclopentadiene	EPA 625	ND	ug/L	5.0	12/22/98
2,4,6-Trichlorophenol	EPA 625	ND	ug/L	5.0	12/22/98
2,4,5-Trichlorophenol	EPA 625	ND	ug/L	5.0	12/22/98
2-Chloronaphthalene	EPA 625	ND	ug/L	5.0	12/22/98
2-Nitroaniline	EPA 625	ND	ug/L	5.0	12/22/98
Dimethyl Phthalate	EPA 625	ND	ug/L	5.0	12/22/98
2,6-Dinitrotoluene	EPA 625	ND	ug/L	5.0	12/22/98
Acenaphthylene	EPA 625	ND	ug/L	10.	12/22/98
3-Nitroaniline	EPA 625	ND	ug/L	5.0	12/22/98
Acenaphthene	EPA 625	ND	ug/L	5.0	12/22/98
2,4-Dinitrophenol	EPA 625	ND	ug/L	20.	12/22/98
4-Nitrophenol	EPA 625	ND	ug/L	5.0	12/22/98
Dibenzofuran	EPA 625	ND	ug/L	5.0	12/22/98
2,4-Dinitrotoluene	EPA 625	ND	ug/L	5.0	12/22/98
Diethyl Phthalate	EPA 625	ND	ug/L	5.0	12/22/98
4-Chlorophenylphenylether	EPA 625	ND	ug/L	10.	12/22/98
Fluorene	EPA 625	ND	ug/L	5.0	12/22/98
2-Methyl-4,6-Dinitrophenol	EPA 625	ND	ug/L	10.	12/22/98
4-Nitroaniline	EPA 625	ND	ug/L	5.0	12/22/98
N-Nitrosodiphenylamine	EPA 625	ND	ug/L	5.0	12/22/98
1,2-Diphenylhydrazine	EPA 625	ND *	ug/L	5.0	12/22/98
4-Bromophenylphenylether	EPA 625	ND	ug/L	5.0	12/22/98

Bolin Laboratories Inc.

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

Matrix: Storm Water
Sample No: 9812-09136-001

Time Sampled: 13:30
Date Sampled: 12/15/1998

PARAMETER	METHOD	RESULTS	UNITS	PQL	DATE ANALYZED
Hexachlorobenzene	EPA 625	ND	ug/L	10.	12/22/98
Pentachlorophenol	EPA 625	ND	ug/L	10.	12/22/98
Phenanthrene	EPA 625	ND	ug/L	5.0	12/22/98
Anthracene	EPA 625	ND	ug/L	5.0	12/22/98
Di-n-butylphthalate	EPA 625	ND	ug/L	5.0	12/22/98
Fluoranthene	EPA 625	ND	ug/L	5.0	12/22/98
Benzidine	EPA 625	ND	ug/L	20.	12/22/98
Pyrene	EPA 625	ND	ug/L	5.0	12/22/98
Butylbenzyl Phthalate	EPA 625	ND	ug/L	5.0	12/22/98
Bis(2-ethylhexyl)phthalate	EPA 625	13.0	ug/L	10.	12/22/98
Benzo (a) anthracene	EPA 625	ND	ug/L	5.0	12/22/98
3,3'-Dichlorobenzidine	EPA 625	ND	ug/L	5.0	12/22/98
Chrysene	EPA 625	ND	ug/L	5.0	12/22/98
Di-n-octylphthalate	EPA 625	ND	ug/L	5.0	12/22/98
Benzo (b) fluoranthene	EPA 625	ND	ug/L	5.0	12/22/98
Benzo (k) fluoranthene	EPA 625	ND	ug/L	5.0	12/22/98
Benzo (a) pyrene	EPA 625	ND	ug/L	5.0	12/22/98
Indeno (1,2,3-cd) pyrene	EPA 625	ND	ug/L	5.0	12/22/98
Dibenzo (a,h) anthracene	EPA 625	ND	ug/L	5.0	12/22/98
Benzo (g,h,i) perylene	EPA 625	ND	ug/L	5.0	12/22/98
2,3,7,8-TCDD (Screen)	EPA 625	ND T	ug/L	500.	12/22/98
Extraction	EPA 625				12/21/98
Surrogate:	EPA 625				12/22/98
***d5-Phenol	EPA 625	0 S	% Recovery		12/22/98
***2-Fluorophenol	EPA 625	0 S	% Recovery		12/22/98
***d5-Nitrobenzene	EPA 625	140	% Recovery		12/22/98
***2-Fluorobiphenyl	EPA 625	130	% Recovery		12/22/98
***2,4,6-Tribromophenol	EPA 625	0 S	% Recovery		12/22/98
***d14-Terphenyl	EPA 625	88	% Recovery		12/22/98

D1 = Sample was diluted due to high concentration of target analyte.
* = 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions. This compound was calibrated as azobenzene.
T = Result based on a Tentatively Identified Compound search.
S = Acid surrogates in this sample are absent because the manufacturer of standard inadvertently failed to add them in the mix. The recoveries of the Base/Neutral surrogates are within criteria. Also the recoveries of acid analytes in the Blank spike and Duplicate are good and within criteria proving extraction efficiency.
C = Continuing Calibration was above method control limits. Data was not impacted.

Phenol analyzed by McKenzie Labs, Phoenix AZ, #AZ0034.
TKN & Ammonia analyzed by Aquatic Consulting, Tempe AZ. #AZ0003.

Bolin Laboratories Inc.

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Total & Dissolved Cadmium, Chromium & Nickel analyzed by BC Labs, Bakersfield CA, #AZ0345.

S Kaufman

Authorized Signatory
ADHS License No.: AZ0004

Bolin Laboratories Inc.

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CHAIN OF CUSTODY RECORD

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Laboratory Sample No. 9812011136

CLIENT INFORMATION

Client Name	Address	City	State	Zip	Phone	Fax
FLOOD CONTROL	2801 W DURANGO	PHOENIX	AZ	85009	506 5464	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)	PHX LIST	LAB NO
P3121598C	12/11/98	1330	PHX3	X				8		X	01

Comments / Special Instructions:_____

SAMPLE CONDITION UPON RECEIPT

No. of Containers	13
Temperature	Ambient
Custody Seals	Y N
Seals Intact	Y N
Preserved	Y N

WHITE-LAB YELLOW-LAB PINK-CLIENT

RELINQUISHED BY

	Signature	Date	Printed Name	Time
①	David Gardner	12/15/98	DAVID GARDNER	1578
②				
③				

SAMPLES RECEIVED BY

Signature	Date	Printed Name	Time
[illegible]	[illegible]	[illegible]	[illegible]

Records

STORM EVENT LOG SHEET

SITE:	PHX SR-03

DATE:	10/26/98	TIME:	1130

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

0.33"

FIELD PARAMETERS:

Sampler Start Time	1705	10/25/98
Effluent pH	7.00	
Effluent Temperature	21.0	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	PHX SR-45		
DATE:	10/26/98	TIME:	1020

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WERE PROBLEM(S):

downloaded data

FIELD PARAMETERS:

Sampler Start Time	0653 10/25/98
Effluent pH	6.40
Effluent Temperature	20.4

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	(NO)
Preservatives added to bottles?	YES	(NO)

STORM EVENT LOG SHEET

SITE:	PHX SR-49

DATE:	10/26/98	TIME:	1132

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

Didn't pump enough sample
0.26" rain

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	PHX IB-08

DATE:	10/26/98	TIME:	1205

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WERE PROBLEM(S):

FIELD PARAMETERS:

Sampler Start Time	7:19 P	10/25/98
Effluent pH	7.96	
Effluent Temperature	20.4	

GRAB SAMPLES: Take grab samples from discharge only!

Grab Samples Taken?	YES	(NO)
Preservatives added to bottles?	YES	(NO)

WATER QUALITY SAMPLE MAINTENANCE LOG SHEET

SITE	PHX SR-03	DATE	11-5-1998
ARRIVAL TIME	1130	DEPARTURE TIME	
SERVICED BY	CK/RN/DG		
SAMPLER MODEL NUMBER	900 MAX	SAMPLER SERIAL/ ASSET NUMBER	EA0597MPC010678
PT SERIAL NUMBER/ ASSET NUMBER		RAINGAGE SERIAL/ ASSET NUMBER	A1150

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.1 / 14.5 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	26 actual length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	475 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS set intake tubing to 30' to calibrate vol.

very strong gasoline odor

Date: 10/08/1998

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX SQ45	DATE	11-5-1998
ARRIVAL TIME	1250	DEPARTURE TIME	
SERVICED BY	CK RN DG		
SAMPLER MODEL NUMBER	900 MAX	SAMPLER SERIAL/ ASSET NUMBER	EA0597MPC010680
PT SERIAL NUMBER/ ASSET NUMBER		RAINGAGE SERIAL/ ASSET NUMBER	A1124

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	14.3 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	20 length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	11.00"
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	455 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS replaced w/ 3/8" teflon tubing
20' intake tubing

Date: 10/08/1998

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX SR49			DATE	11-5-98
ARRIVAL TIME	910	DEPARTURE TIME		SERVICED BY	CK RN DG
SAMPLER MODEL NUMBER	900 MAX			SAMPLER SERIAL/ ASSET NUMBER	EA0597MPC010679
PT SERIAL NUMBER/ ASSET NUMBER				RAINGAGE SERIAL/ ASSET NUMBER	A702

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.7 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	20 length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	475 mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS 245-2979

replaced intake tubing w/ 3/8 teflon 20'

set to 21' to calibrate pump.

pumped vol difficult to calibrate

Date: 10/08/1998

WATER QUALITY SAMPLE⁻ MAINTENANCE LOG SHEET

SITE	PHX IB-08	DATE	11-5-1998
ARRIVAL TIME	210	DEPARTURE TIME	
SERVICED BY	CK RN DG		
SAMPLER MODEL NUMBER	900 MAX	SAMPLER SERIAL/ ASSET NUMBER	EA0597MPC010677
PT SERIAL NUMBER/ ASSET NUMBER		RAINGAGE SERIAL/ ASSET NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES ~~NO~~	GOOD FAIR POOR	YES NO	YES NO	11.92 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE rept./ checked in Sept.	YES ~~NO~~	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	~~YES~~ NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

will replace tubing w/ 3/8" teflon tubing when order arrives.

Raingage serviced – mounting was very loose ~~and~~ It was resecured.

Date: 10/08/1998

STORM EVENT LOG SHEET

SITE:	IB08

DATE:	11/9/98	TIME:	

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

Time/date incorrect
0.25" rain 77000 cf flow
only 3 bottles.

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

Water Quality Sampler Maintenance Log Sheet

SITE	City of Phoenix, 40th ST & Shea Blvd		
DATE	12/3/98	TIME	0800
SERVICED BY	Rur		
MODEL NUMBER		SERIAL NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE volts	YES NO	GOOD FAIR POOR	YES NO	YES NO	11.6
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	See below
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 Cleared line, flush line and rinse. put back cleaned bottles. Everything look good. I was not able to take sampler off program Halt. I will stop bye there again and try. I had same problem at 67th Ave & Salt River. 67th now working fine.

STORM EVENT LOG SHEET

SITE:	35th Ave / SAIT

DATE:	12-6-98	TIME:	4:22

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

_____

_____

_____

_____

FIELD PARAMETERS:

Sampler Start Time	4:22
Effluent pH	~~10.6~~ 8.33
Effluent Temperature	10.6

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	405T/SAIT

DATE:	12-6-98	TIME:	3:35

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

38°

FIELD PARAMETERS:

Sampler Start Time	3.40
Effluent pH	9.13
Effluent Temperature	12.1 C

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	(YES)	NO
Preservatives added to bottles?	(YES)	NO

STORM EVENT LOG SHEET

SITE:	PHX SR-49

DATE:	12/6/98	TIME:	

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES ~~NO~~

IF NO, WHAT WERE PROBLEM(S):

Sampler not reset for event.

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX SR-03		DATE	12-7-98	
ARRIVAL TIME	1145	DEPARTURE TIME		SERVICED BY	RWN DEB
SAMPLER MODEL NUMBER	900		SAMPLER SERIAL/ ASSET NUMBER		
PT SERIAL NUMBER/ ASSET NUMBER			RAINGAGE SERIAL/ ASSET NUMBER		

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

NOTES / ACTIONS - cleaned w/ Liquinox / water
- downloaded data
- reset

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX SR 45			DATE	12-7-98
ARRIVAL TIME	1040	DEPARTURE TIME		SERVICED BY	DG / RWN
SAMPLER MODEL NUMBER				SAMPLER SERIAL/ ASSET NUMBER	
PT SERIAL NUMBER/ ASSET NUMBER				RAINGAGE SERIAL/ ASSET NUMBER	

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

NOTES / ACTIONS rinse error problem - no samples taken

0.26" rain

- need to remove debris from near intake tubing

- line may have been crimped

- cleaned w/ liquinox/water

Date: 10/08/1998

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX SR49			DATE	12-7-98
ARRIVAL TIME	1210	DEPARTURE TIME		SERVICED BY	RWN DEC
SAMPLER MODEL NUMBER				SAMPLER SERIAL/ ASSET NUMBER	
PT SERIAL NUMBER/ ASSET NUMBER				RAINGAGE SERIAL/ ASSET NUMBER	

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

NOTES / ACTIONS ~0.32" rain - didn't sample
not sure why
- didn't need to be cleaned or reset
- downloaded data (will check data for problems)

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	PHX IB-08	DATE	12-7-98
ARRIVAL TIME	1500	DEPARTURE TIME	
SERVICED BY	RWJ / DEG		
SAMPLER MODEL NUMBER		SAMPLER SERIAL/ ASSET NUMBER	
PT SERIAL NUMBER/ ASSET NUMBER		RAINGAGE SERIAL/ ASSET NUMBER	

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.0 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS - cleaned intake tubing w/ Liquinox / water

- reset program
- downloaded data
- pushed debris away from intake line

STORM EVENT LOG SHEET

SITE:	Phx SR-03		
DATE:	12-15-98	TIME:	

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

sampler was off - unsure as to why, it was on when last left last week

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	40th ST @ Salt River

DATE:	12/15/98	TIME:	0745

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WERE PROBLEM(S):

Note: went to site, it is raining, check gauge took precip reading, at this time there was .17 CFS .15

Sampling in progress

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	SR-45

DATE:	12-15-98	TIME:	

DID EQUIPMENT OPERATE PROPERLY DURING EVENT? YES NO

IF NO, WHAT WERE PROBLEM(S):

collected composite
grab not taken - rain very hard
ground wet & slippery

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	JR-49

DATE:	12-15-98	TIME:	1400

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: YES NO

IF NO, WHAT WERE PROBLEM(S):

keypad not responsive
may need svc.

0.09" rain

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

STORM EVENT LOG SHEET

SITE:	IB-08

DATE:	12-15-98	TIME:	1540

DID EQUIPMENT OPERATE PROPERLY DURING EVENT: (YES) NO

IF NO, WHAT WERE PROBLEM(S):

0.11 inch rain - not representative
samples discarded

FIELD PARAMETERS:

Sampler Start Time	
Effluent pH	
Effluent Temperature	

GRAB SAMPLES:

Take grab samples from discharge only!

Grab Samples Taken?	YES	NO
Preservatives added to bottles?	YES	NO

WATER QUALITY SAMPLE MAINTENANCE LOG SHEET

SITE	40th ST Soap River			DATE	12/17/98
ARRIVAL TIME		DEPARTURE TIME		SERVICED BY	Dave
SAMPLER MODEL NUMBER				SAMPLER SERIAL/ ASSET NUMBER	
PT SERIAL NUMBER/ ASSET NUMBER				RAINGAGE SERIAL/ ASSET NUMBER	

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

NOTES / ACTIONS Install sample bottles, Reset program

Picked up dirty bottles from lab, clean in shop.

Dave

Date: 10/08/1998