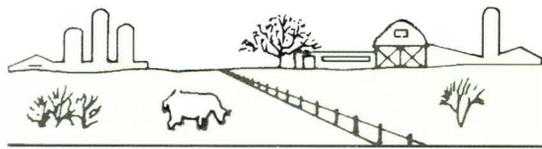
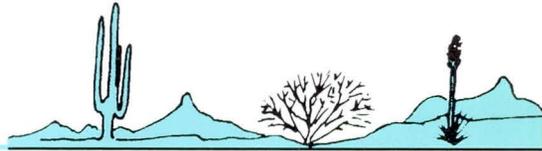
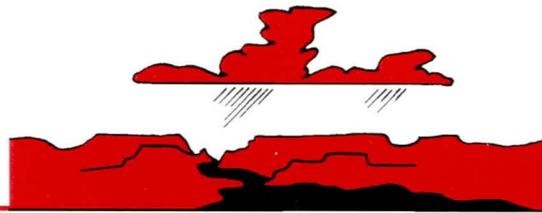


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Phoenix, AZ 85009



# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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

**Fourth Quarter 2002**

**July 17, 2002**

FLOOD CONTROL  
DISTRICT  
OF  
MARICOPA  
COUNTY

# Stormwater Quality Report

Fourth Quarter, Sampling Year 2002

April 1, 2002 through June 30, 2002

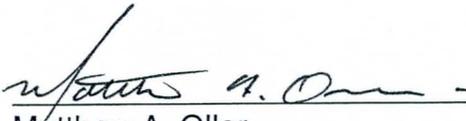
For

**City of Scottsdale, Arizona**

July 17, 2002

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Phoenix, AZ 85009

Prepared by:

  
Matthew A. Oller  
Water Quality Hydrologist

Reviewed by:

  
Todd G. Williams, M.Sc.  
Water Quality Branch Manager

Stormwater Quality Report  
City of Scottsdale, Arizona

Fourth Quarter 2002

July 17, 2002

## Introduction

The Flood Control District of Maricopa County operates and maintains five land based stormwater monitoring stations for the City of Scottsdale for compliance with their National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit.

This report details stormwater sampling and equipment upkeep for the five Scottsdale stations for the period from April 1<sup>st</sup>, 2002 through June 30<sup>th</sup>, 2002.

During storm events, only representative storm events are sampled. A representative storm event has occurred when the following criteria have been met **and there has been no rainfall greater than 0.10 inches within the previous 72 hours.**

<b>SCOTTSDALE</b>	<b>RAINFALL</b>	<b>DURATION</b>
<b>WINTER (October – March)</b>	<b>0.22 – 0.65 INCHES</b>	<b>5.1-15.3 HOURS</b>
<b>SUMMER (April – September)</b>	<b>0.27 – 0.81 INCHES</b>	<b>2.2 – 6.5 HOURS</b>

Storm duration is defined as the time period from start to end of a sustained rainfall. Sustained rainfall is defined as rainfall that continues without a gap of greater than 150 consecutive minutes. If a gap greater than 150 consecutive minutes occurs, then the rainfall is considered to be from a separate storm event.

Summer months are April through September and winter months are October through March.

## Representative Storm Event Summaries

This is a summary of representative storm events that occurred during the 4<sup>th</sup> quarter of the 2002 sample year, from April 1<sup>st</sup>, 2001 through June 30<sup>th</sup> 2002. No representative storm events occurred during this period. Table 1 of this report, lists storm events with rainfall greater than 0.27 inches of rain. (Scottsdale minimum summer rainfall criteria). Table 1 also specifies reasons why samples were not collected and/or analyzed.

**TABLE 1  
SUMMARY OF SCOTTSDALE STORM EVENTS  
RAINFALL > 0.27 INCHES  
APRIL 1, 2002 – JUNE 30, 2002**

<b>SITE NAME</b>	<b>RAINFALL INCHES</b>	<b>REPRESENTATIVE EVENT</b>	<b>SAMPLES ANALYZED</b>
<b>None</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## **Maintenance Summary**

This section details maintenance activities and problems that occurred from April 1<sup>st</sup>, 2002 through June 30<sup>th</sup>, 2002. All water quality samplers are SIGMA 900 MAX models.

### **MCKELLIPS**

The sampler station battery voltage was checked and program reset on April 1, 16, 22, 30, May 7, 15, June 5, & 13. The sample station alarm test was conducted on April 4 and June 13. The rain gage tip test was checked on April 24 and June 6, 13. June 13 the solar panel was cleaned and rain gage leveled. The fuse for the cell phone was replaced on May 23. The PT sensor was checked and reset April 22.

### **PIERCE**

The sampler station battery voltage was checked and program reset on April 1, 16, 22, 30, May 7, 15, 23, June 5, and 13. The sample station alarm test was conducted on April 24, and June 13. Auto sampler CA 1436117001 8930 replaced CA 1436117006 8930 to have the baud rate changed to 9600 on April 24. The rain gage tip test was checked on April 24 and June 6, 13. June 13 the solar panel cleaned and rain gage leveled. The battery was changed out of the station on June 13. The PT sensor was serviced and reset April 22.

### **CAMELBACK**

The sampler station battery voltage was checked and program reset on April 1, 16, 22, 30, May 7, 15, 23, June 5, and 13. The sample station alarm test was conducted on April 24, and June 13. The rain gage tip test was checked on April 24 and June 6, 13. June 13 the solar panel was cleaned and rain gage leveled. The battery was changed out of the station on June 13. The PT sensor was serviced and reset April 22.

### **HAYDEN**

The sampler station battery voltage was checked and program reset on April 1, 16, 22, 30, May 7, 15, 23, June 5, and 13. The sample station alarm test was conducted on April 24, and June 13. The rain gage tip test was checked on April 24 and June 6, 13. June 13 the solar panel was cleaned and rain gage leveled. The PT sensor was serviced and reset April 22.

## **THUNDERBIRD**

The sampler station battery voltage was checked and program reset on April 1, 16, 22, 30, May 7, 15, 23, June 5, and 13. The sampler station alarm test was conducted on April 10, 24, and June 13. The rain gage tip test was checked on April 24 and June 6, 13. June 13 the solar panel was cleaned and rain gage leveled. The fuse for the cell phone was replaced on May 15. The PT sensor was serviced and reset April 22.

## **Data compiled for April 1 through June 30, 2002**

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

- Rainfall tables for five Scottsdale NPDES rain gages.
- Rainfall data for six Scottsdale ALERT rain gages.
- Operation and Maintenance log sheets.

STORM WATER QUALITY RAINFALL GAGES

City of Scottsdale Gaged Rainfall													
Stormwater Station													
Location		McKellips											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1			0.09	0.01									
2				0.03									
3				0.01									
4			0.01				0.62						
5			0.08			0.23							
6					0.04								
7			0.12							0.13	0.09		
8			0.07							0.01			
9													
10													
11							0.26						
12													
13													
14													
15													
16													
17			0.19										
18				0.04									
19				0.06									
20				0.10									
21													
22													
23													
24													
25													
26													
27													
28													
29		1.51											
30		0.06						0.06					
31		0.14	0.01										
Month Total		1.71	0.57	0.25	0.04	0.23	0.88	0.06	0.00	0.14	0.09	0.00	0.00

**City of  
Scottsdale  
Gaged  
Rainfall**



Stormwater Station													
Location	Pierce												
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.61						
5						0.18							
6					0.05								
7										0.13	0.11		
8										0.01			
9			0.47										
10													
11							0.36						
12													
13													
14													
15													
16													
17			0.01										
18													
19													
20													
21													
22													
23													
24													
25													
26													
27								0.02					
28													
29		1.07											
30		0.07						0.05					
31													
<b>Month Total</b>		1.14	0.48	0.00	0.05	0.18	0.97	0.07	0.00	0.14	0.11	0.00	0.00

City of Scottsdale Gaged Rainfall													
Stormwater Station													
Location	Camelback												
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.62						
5						0.25	0.01						
6					0.05								
7									0.06	0.14			
8													
9			0.46										
10													
11							0.14						
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27								0.01					
28													
29		0.60											
30		0.13						0.08					
31													
Month Total		0.73	0.46	0.00	0.05	0.25	0.77	0.09	0.00	0.06	0.14	0.00	0.00

City of Scottsdale Gaged Rainfall													
Stormwater Station													
Location	Hayden												
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.58						
5						0.25	0.04						
6					0.05								
7									0.04	DATA LOST			
8									0.01				
9			0.45										
10													
11							0.11						
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30		NA						0.05					
31		NA											
Month Total		0.00	0.45	0.00	0.05	0.25	0.73	0.05	0.00	0.05	0.00	0.00	0.00

NA = No Data

Scottsdale Station Hayden

**City of  
Scottsdale  
Gaged  
Rainfall**



Stormwater Station													
Location	Thunderbird												
	July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002	
1													
2													
3													
4						0.73							
5					0.28								
6				0.02						0.02			
7									0.06	0.22			
8													
9		0.47											
10													
11						0.04							
12													
13													
14													
15													
16													
17		0.17											
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30	0.55						0.05						
31													
Month Total	0.55	0.64	0.00	0.02	0.28	0.77	0.05	0.00	0.06	0.24	0.00	0.00	

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

**City of  
Scottsdale  
Gaged  
Rainfall**



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

City of Scottsdale Gaged Rainfall													
Gage Number		4605											
Location		Osborn at 64th st.											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1		XXX	XXX	XXX									
2		XXX	XXX	XXX									
3		XXX	XXX	XXX									
4		XXX	XXX	XXX			0.55						
5		XXX	XXX	XXX		0.16							
6		XXX	XXX	XXX									
7		XXX	XXX	XXX					0.08	0.12			
8		XXX	XXX	XXX									
9		XXX	XXX	XXX									
10		XXX	XXX	XXX				0.08					
11		XXX	XXX	XXX				0.16	0.04				
12		XXX	XXX	XXX			0.04						
13		XXX	XXX	XXX									
14		XXX	XXX	XXX									
15		XXX	XXX	XXX									
16		XXX	XXX	XXX									
17		XXX	XXX	XXX									
18		XXX	XXX	XXX									
19		XXX	XXX	XXX									
20		XXX	XXX	XXX									
21		XXX	XXX	XXX									
22		XXX	XXX	XXX									
23		XXX	XXX	XXX									
24		XXX	XXX	XXX									
25		XXX	XXX										
26		XXX	XXX										
27		XXX	XXX										
28		XXX	XXX										
29		XXX	XXX										
30		XXX	XXX					0.04					
31		XXX	XXX										
Month Total		0.00	0.00	0.00	0.00	0.16	0.75	0.16	0.00	0.08	0.12	0.00	0.00

XXX = Gage not working.

**City of  
Scottsdale  
Gaged  
Rainfall**



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

**City of  
Scottsdale  
Gaged  
Rainfall**



Gage Number		4615											
Location		Indian Bend Wash at Indian School											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1													
2													
3													
4							0.55						
5						0.16							
6		0.04			0.04								
7									0.04	0.12			
8													
9			0.43										
10								0.08					
11							0.12						
12													
13													
14		0.04											
15													
16													
17		0.59											
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.47											
30		0.04	0.20					0.08					
31													
<b>Month Total</b>		1.18	0.63	0.00	0.04	0.16	0.67	0.16	0.00	0.04	0.12	0.00	0.00

**City of  
Scottsdale  
Gaged  
Rainfall**



Gage Number		4620										
Location		Indian Bend Wash at Interceptor										
	July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1												
2												
3												
4						0.28						
5					0.31							
6	0.04											
7									0.16			
8												
9	0.04	0.16										
10							0.08					
11						0.08						
12												
13												
14	0.12		0.20									
15												
16												
17	0.16											
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29	0.16											
30	0.39						0.04					
31												
Month Total	0.91	0.16	0.20	0.00	0.31	0.36	0.12	0.00	0.00	0.16	0.00	0.00

City of Scottsdale Gaged Rainfall		 Honor the Past - Inspire the Future											
Gage Number		4625											
Location		Highland at 68th											
		July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
1		XXX											
2		XXX											
3													
4							0.63						
5						0.20							
6		0.04											
7											0.16		
8										0.04			
9		0.08	0.35										
10								0.20					
11		xxx					0.16						
12		xxx											
13		xxx											
14		0.04											
15													
16													
17		0.04											
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29		0.35											
30		0.12	0.04					0.04					
31													
	Month Total	0.67	0.39	0.00	0.00	0.20	0.79	0.24	0.00	0.04	0.16	0.00	0.00

XXX = Gage not working.

**Operation and maintenance and storm event log sheets**

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	04-01-02
ARRIVAL TIME	0820	DEPARTURE TIME	0825	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED: Y  N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	YES NO	YES NO	13.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Rain Recorded 0101. No alarms, No samples.*

*cell phone and radio on*

*Date and time correct.*

4/7/02 - 0.09  
START 1242 0345 - 0.09  
4080654.000 001

# EQUIPMENT CLEANING CHECKLIST

Site McKellias Road

Date 04-08-02 Time 0651

Serviced By: (Signature)

Cell # 1 Rain fall recorded 0.10 No Samples

Data Downloaded to DTU?

Cell phone, radio on Date and time correct.

1. On 900 Sigma Halt program. On Isco Stop program. No Start program
2. Connect extension tubing to the distributor tubing on the underside of the sampler.
3. Isco 6712 models, hit stop key and follow program.
4. On 900 models, press the Pump Operation key and then the select Purge.
5. Follow the steps below and check each as it is done.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <u>NA</u> | Pump approximately 1/2 gallon tap water through tubing.           |
| <input type="checkbox"/>                      | Pump approximately 1/2 gallon of Liquinox through tubing.         |
| <input type="checkbox"/>                      | Pump a large quantity of tap water through tubing.                |
| <input type="checkbox"/>                      | Pump a small amount of Nitric Acid (pH 3 - 4) through tubing.     |
| <input type="checkbox"/>                      | Pump approximately 1/2 - 1 gallon deionized water through tubing. |

6. Disconnect the extension tubing and make sure the distributor tubing is seated properly.
7. Replace the base and clean bottles.
8. If the data has been downloaded to the DTU, START the program from the beginning.
9. If the data has not been downloaded, RESUME the program.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	04/09/02
ARRIVAL TIME	0930	DEPARTURE TIME	1000	
SAMPLER	SIGMA	900	STATION CONDITION:	Good
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS perform alarm test, cell phone test Passed

Restart program PC

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE <i>McKellips Road</i>		DATE <i>4/16/02</i>	
ARRIVAL TIME <i>0900</i>	DEPARTURE TIME <i>0910</i>	SERVICED BY <i>(Signature)</i>	
SAMPLER <i>SIGMA</i>	<i>900</i>	STATION CONDITION: <i>Good</i>	
SAMPLER	<i>ISCO</i>	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK *(Y)* N

STATION DATA COPIED: Y *(N)*

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>12.9</i> volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	
CONNECTION CABLES	<i>YES</i> NO	<i>GOOD</i> FAIR POOR	YES NO	YES NO	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site, look over equipment.*

*cell phones radios on*

---



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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	04/22/02
ARRIVAL TIME	0834	DEPARTURE TIME	0840	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Cell phone & radio on*

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*Level Reading - 0.366 = 0.00*

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*Drain clear and dry.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	04/24/02	
ARRIVAL TIME	0715	DEPARTURE TIME	0740	SERVICED BY	(Plum)
SAMPLER	(SIGMA)	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: (Y) N

STATION DATA COPIED: Y (N)

	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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (Inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS check level, Reading 0.000 Start rain gauge test. cell phones radio on Pour water into funnel, reading on 25 received 1st message at 07 26, alarm 001-23 at 0728.  
level 0.00. Good. Restart program 0734.  
(Plum)

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	04/30/02
ARRIVAL TIME	0840	DEPARTURE TIME	0845	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, levels, good*

*cell phone & radio on date and time connect.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellips Road		DATE	5/7/02	
ARRIVAL TIME	8/16	DEPARTURE TIME	0820	SERVICED BY	<i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.4 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Everything looks good.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Mckellips Road		DATE	5/15/02	
ARRIVAL TIME	0700	DEPARTURE TIME	0750	SERVICED BY	<i>(Signature)</i>
SAMPLER	<i>(Sigma)</i>	900	STATION CONDITION:	<i>(Good)</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: *(Y)* N

STATION DATA COPIED: <i>(Y)</i> N	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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (Inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Check site, cell phone & radio, level.*

*cell phone off, fuse okay? Return after checking other stations.*

*Return, mess with irrigation controller, no paper work on it, got cell phone to work, need to get papers on controller.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellins Road		DATE	5/22/02
ARRIVAL TIME	0745	DEPARTURE TIME	0805	SERVICED BY <i>(New)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.2 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS *check station, work on irrigation box removal. Return with fuse box.*

*5/23/02 1130. install fuse box, remove irrigation controller call to make sure phone working okay.*

*leave 1215* *(New)*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Mckellip's Park		DATE	06/05/02	
ARRIVAL TIME	0745	DEPARTURE TIME	0755	SERVICED BY	<i>Plum</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.2 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Level 0-tor will return and run tip test to confirm phone operation.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Mckellips Road		DATE	6/6/02
ARRIVAL TIME	0800	DEPARTURE TIME	SERVICED BY <i>Ruen</i>	
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.2 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Perform tip count test. Did not turn phenon  
 Pot irrigation controller back in, retest, tunnel closed.  
 Request bucket truck from Seo Hsdale.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	McKellins Road		DATE	6/13/02
ARRIVAL TIME	0650	DEPARTURE TIME	0710	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.2 volts
SOLAR PANEL	YES NO N/A	GOOD FAIR POOR	YES NO	YES NO	<i>(checkmark)</i>
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *clean Solar panels clear and clean funnel and screens. check level on bucket, good.*

*Battery regulator is giving me a problem.*

*Return, check site, perform t.i.n / Alarm test.*

*Problem with Regulator; Return to connect.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	04-01-02
ARRIVAL TIME	0828	DEPARTURE TIME	0845	SERVICED BY: <i>flm</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, Rain recorded 0.01*

*cell phone and radio on, Date and time connect*

*Sweep and clean drain channel, remove dirt and fresh*

*from sensors.*

4080710.000 002 April 7<sup>th</sup> 02

START - 00:41  
STOP - 3:12 > 0.11

# EQUIPMENT CLEANING CHECKLIST

Site Pierce Road

Date 04-08-02 Time 0705

Serviced By: (Signature)

Yes cell 2 Rain recorded 0112 No samples  
Data Downloaded to DTU?

cell phone & radio on date and time connect

1. On 900 Sigma Halt program. On Isco Stop program. Restart program.
2. Connect extension tubing to the distributor tubing on the underside of the sampler.
3. Isco 6712 models, hit stop key and follow program.
4. On 900 models, press the Pump Operation key and then the select Purge.
5. Follow the steps below and check each as it is done.

MA

Pump approximately 1/2 gallon tap water through tubing.

Pump approximately 1/2 gallon of Liquinox through tubing.

Pump a large quantity of tap water through tubing.

Pump a small amount of Nitric Acid (pH 3 - 4) through tubing.

Pump approximately 1/2 - 1 gallon deionized water through tubing.

6. Disconnect the extension tubing and make sure the distributor tubing is seated properly.
7. Replace the base and clean bottles.
8. If the data has been downloaded to the DTU, START the program from the beginning.
9. If the data has not been downloaded, RESUME the program.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	04/07/02	
ARRIVAL TIME	1005	DEPARTURE TIME	1030	SERVICED BY	<i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>[Signature]</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Perform alarm test, cell phone test, Passel*

*Restart program*

*[Signature]*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pience Road		DATE	4/16/02
ARRIVAL TIME	0916	DEPARTURE TIME	0923	SERVICED BY <i>PLM</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>good</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site and equipment, cell phone & radio*  
*ok*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	04/22/02
ARRIVAL TIME	0843	DEPARTURE TIME	0915	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *cell phone & radio on. Sweep and clean drain.*

*Work on PT sensor, current reading 1.097*

*New Reading 0.052 = 0.00*

*Flow from watering entering drain. Readings look good.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	04/24/02	
ARRIVAL TIME	0743	DEPARTURE TIME	0945	SERVICED BY	<i>plew</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: *Y* *Y* *N*

STATION DATA COPIED: *Y* *N*

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>12.5</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS *Perform Rain gauge test. Poor water in funnel, read 0.*  
*Received alarm at 0751 AM, Test Passed.*  
*Remove Sampler CA1436117001<sup>xxx</sup> 8930 install sampler CA1436117006<sup>xxx</sup> 8930*  
*and test, change David Date, to 9000 calibrate PT to new sampler.*  
*perform test at 0930, received alarms at 0933 Passed test #23*

*plew*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	04/30/02
ARRIVAL TIME	0848	DEPARTURE TIME	0852	SERVICED BY <i>(Signature)</i>
SAMPLER	<del>SIGMA</del>	900	STATION CONDITION:	Good
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y/N

STATION DATA COPIED: Y/N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

Check Station, levels good

cell phone & radio on date and time correct.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	5/7/02
ARRIVAL TIME	0822	DEPARTURE TIME	0828	SERVICED BY Plew
SAMPLER	SIGMA	900	STATION CONDITION: good	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y N

STATION DATA COPIED: Y N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Everything looks good.

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	5/15/02
ARRIVAL TIME	0755	DEPARTURE TIME	0800	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>(Signature)</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.4 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site, cell phone off. Turn back on.*  
*levels gage*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	05/23/02
ARRIVAL TIME	1220	DEPARTURE TIME	1225	SERVICED BY <i>Allen</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Good</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: *Y* / *N*

STATION DATA COPIED: *Y* / *N*

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>12.2</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS: *check station, phone on, level good*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	6/5/02
ARRIVAL TIME	0800	DEPARTURE TIME	0810	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	okey
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: *(Signature)* N

STATION DATA COPIED: Y *(Signature)*

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	11.4 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Battery charger regulator not working. will return and replace.*

*Ready*

*12 vdc* *Analyzing*

*M-8 nu 3.1*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Pierce Road		DATE	6/13/02
ARRIVAL TIME	0715	DEPARTURE TIME	0730	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	11.9 volts
SOLAR PANEL	<del>YES</del> NO N/A	GOOD FAIR POOR	YES NO	YES NO	clean
CONNECTION CABLES	YES NO	GOOD FAIR POOR	YES NO	YES NO	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Clean solar panel and funnel, clear screen*

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*Battery charging = 11.2 - up - 11.9 will change out Batteries next run.*

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*Return and perform tin / glara test. Passed.*

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*Change out Batteries*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	04-01-02
ARRIVAL TIME	0851	DEPARTURE TIME	0856	SERVICED BY <i>Allen</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input checked="" type="radio"/> GOOD <input type="radio"/> FAIR <input type="radio"/> POOR	YES NO	YES NO	13.4 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, Rainfall 0.01 recorded*

*cell phone and radio on*

*Date and time connect.*

April 7-24

START  
STOP

00:12 } 2hr 29min  
02:31  
0.14

# EQUIPMENT CLEANING CHECKLIST

Site **Camelback Road**

Date **04-08-02** Time **0723**

Serviced By: **(Signature)**

*rainfall (0.15) two bottles, small amount of water*

*Jon*

*@cell #3*

Data Downloaded to DTU?

*cell phone & radio OK Date and time correct*

1. On 900 : Sigma Halt program. On Isco Stop program. *(clean bottles & sampler)*
2. Connect extension tubing to the distributor tubing on the *underside of the sampler.*
3. Isco 6712 models, hit stop key and follow program.
4. On 900 models, press the Pump Operation key and then the select Purge.
5. Follow the steps below and check each as it is done.

Pump approximately 1/2 gallon tap water through tubing.

Pump approximately 1/2 gallon of Liquinox through tubing.

Pump a large quantity of tap water through tubing.

Pump a small amount of Nitric Acid (pH 3 - 4) through tubing.

Pump approximately 1/2 - 1 gallon deionized water through tubing.

6. Disconnect the extension tubing and make sure the distributor tubing is seated properly.
7. Replace the base and clean bottles.
8. If the data has been downloaded to the DTU, START the program from the beginning.
9. If the data has not been downloaded, RESUME the program.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	04/09/02	
ARRIVAL TIME	1040	DEPARTURE TIME	1100	SERVICED BY	<i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Perform alarm test, cell phone and tipping bucket*  
*Restart program* *passed*  
*[Signature]*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	4/16/02
ARRIVAL TIME	0926	DEPARTURE TIME	0930	SERVICED BY <i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.1 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, drain cell phone and radio on*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Cameback Road		DATE	04/22/02
ARRIVAL TIME	0923	DEPARTURE TIME	0940	SERVICED BY <i>(Signature)</i>
SAMPLER	<u>SIGMA</u>	900	STATION CONDITION:	<i>good</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.3 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (Inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, PT service. 1st Reading 0.675*  
*End Reading 0.395 There is water in drain, minor flow*  
*Restart program. Recheck site when drain is dry.*  
*cell phone + radio ON.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	04/24/02	
ARRIVAL TIME	0956	DEPARTURE TIME	1006	SERVICED BY	(Pew)
SAMPLER	(SIGMA)	900	STATION CONDITION:	good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK (Y) N

STATION DATA COPIED: Y (N)

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.3 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Check station, perform rain gauge test, check level,  
Reading is below 1/2 inch. Station test, passed, alarm 1003 #23  
Restart program. (Pew)

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	04/30/02
ARRIVAL TIME	0900	DEPARTURE TIME	0905	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED: Y  N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

Check Station, radio + cell phone on

Date and time correct

Level readings good.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE <i>Camelback Road</i>		DATE <i>5/7/02</i>	
ARRIVAL TIME <i>0835</i>	DEPARTURE TIME <i>0538</i>	SERVICED BY <i>[Signature]</i>	
SAMPLER <i>SIGMA</i>	<i>900</i>	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO 6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK *Y/N*

STATION DATA COPIED: *Y/N*

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>12.9</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Check station, everything looks good.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	5/15/02
ARRIVAL TIME	0810	DEPARTURE TIME	0815	SERVICED BY <i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *adjust level, everything else good. cell phone on.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	05/23/02	
ARRIVAL TIME	1235	DEPARTURE TIME	1240	SERVICED BY	<i>Green</i>
SAMPLER	SIGMA 900		STATION CONDITION:		<i>Good</i>
SAMPLER	ISCO 6712		STATION CONDITION:		

ENTRY MADE STATION LOG BOOK *Y* / N

STATION DATA COPIED: Y / *N*

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS *Flow in channel, level looks correct. Cell replacement.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Camelback Road		DATE	6/5/02
ARRIVAL TIME	0814	DEPARTURE TIME	0825	SERVICED BY <i>(New)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Okay</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Have problem with turning led phone on?*  
*will return.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Cammelback Road		DATE	6/12/02
ARRIVAL TIME	0740	DEPARTURE TIME	0755	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.4 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *clean solar panel & screen, check tipping bucket.*  
*Return and perform tip/alarm tests. Passed alarm 1000*  
*change battery.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden Golf		DATE	04-01-02
ARRIVAL TIME	0900	DEPARTURE TIME	0906	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED/ SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Check Station, No rain recorded*

*cell phone and radio on*

*Date and time correct.*

# EQUIPMENT CLEANING CHECKLIST

Site **Hayden @ Golf**

Date **04-08-02** Time **0753**

Serviced By: **Jim**

**403** cell 4 **Rainfall cell no samples**  
**Data Downloaded to DTU?**

*cell phone & radio on site + time connect.*

1. On 900 Sigma Halt program. On Isco Stop program. *Restart program*
2. Connect extension tubing to the distributor tubing on the underside of the sampler.
3. Isco 6712 models, hit stop key and follow program. *Data copied lost, unknown*
4. On 900 models, press the Pump Operation key and then the select Purge. *Why?*
5. Follow the steps below and check each as it is done. *Data cell did not read full, maybe some data.*

N/A

**Pump approximately 1/2 gallon tap water through tubing.**

**Pump approximately 1/2 gallon of Liquinox through tubing.**

**Pump a large quantity of tap water through tubing.**

**Pump a small amount of Nitric Acid (pH 3 - 4) through tubing.**

**Pump approximately 1/2 - 1 gallon deionized water through tubing.**

6. Disconnect the extension tubing and make sure the distributor tubing is seated properly.
7. Replace the base and clean bottles.
8. If the data has been downloaded to the DTU, START the program from the beginning.
9. If the data has not been downloaded, RESUME the program.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	<i>Hayden Golf</i>		DATE	<i>04/09/02</i>
ARRIVAL TIME	<i>1105</i>	DEPARTURE TIME	<i>1130</i>	SERVICED BY: <i>[Signature]</i>
SAMPLER	<i>SIGMA</i>	900	STATION CONDITION: <i>good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: *Y/N*

STATION DATA COPIED: *Y / N*

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>13.0</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Perform alarm test. cell phone tipping bucket.*  
*Restart program* *[Signature]*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden Golf		DATE	4/16/02	
ARRIVAL TIME	0933	DEPARTURE TIME	0940	SERVICED BY	<i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED: <input checked="" type="radio"/> Y <input type="radio"/> N	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station equipment. cell phone & radio on*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden @ Golf		DATE	04/22/02
ARRIVAL TIME	0943	DEPARTURE TIME	1000	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: *Y* / *N*

STATION DATA COPIED: *Y* / *N*

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS *check station, adjust PT level, reading was -1.098*  
*new reading 0.056, = 0.00*  
*cell phone & radio on*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden @ Half		DATE	04/24/02	
ARRIVAL TIME	1011	DEPARTURE TIME	1025	SERVICED BY	<i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES/ACTIONS *check site; level reading 0.00.*

*Perform tipping bucket test. Passed alarm 1018; Pager 1020<sup>#25</sup>*

*Restart program*

*[Signature]*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden @ Golf		DATE	04/30/02	
ARRIVAL TIME	0908	DEPARTURE TIME	0915	SERVICED BY	<i>Plum</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check Station, cell phone & radio on*

*Date and time correct*

*Level readings good.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden @ Golf		DATE	5/7/02
ARRIVAL TIME	0840	DEPARTURE TIME	0845	SERVICED BY <i>Plum</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Case</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK *Y/N*

STATION DATA COPIED: <i>Y/N</i>	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>12.6</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Everything looks good.*

*Drain needs to be cleaned out.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Haydenc Golf		DATE	5/15/02
ARRIVAL TIME	0818	DEPARTURE TIME	0825	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y /  N

STATION DATA COPIED: Y  N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	124 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Everything on, levels good.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden Golf		DATE	5/23/02	
ARRIVAL TIME	12 43	DEPARTURE TIME	12 48	SERVICED BY	<i>Pen</i>
SAMPLER	<u>SIGMA</u>	900	STATION CONDITION:	<i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site, cell phone on level ground.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden Golf		DATE	6/5/02
ARRIVAL TIME	0830	DEPARTURE TIME	0835	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Hayden Golf		DATE	6/13/02
ARRIVAL TIME	0800	DEPARTURE TIME	0810	SERVICED BY: <i>Ren</i>
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: *Y* / *N*

STATION DATA COPIED: *Y* / *N*

	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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Clean solar panels, funnel and screens.*

*0930 Per farm tip count alarm test.*

*Received alarm at 0933 good result*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	7 Hunderbird Road		DATE	04-01-02
ARRIVAL TIME	0922	DEPARTURE TIME	0926	SERVICED BY <i>Glen</i>
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK:  Y /  N

STATION DATA COPIED:  Y /  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.2 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS

*Check Station, Rain Recorded 0.01*

*cell phone and radio on*

*Date and time connect.*

04080829.000  
005

4/6/02 - 0.04  
STRT 2342 - 0.02

805 - 0.01

4/7/02 - 0.22  
0.24

147 = 2hr 28 min

5709 0215

total -  
0.24

# EQUIPMENT CLEANING CHECKLIST

Site

Thunderbird Road

Date

04-08-02

Time

0831

Serviced By:

*Gun*

yes

cell  
5-

Data Downloaded to DTU?

Rain recorded 0.27 2 bottles had samples.

1. On 900 Sigma Halt program. On Isco Stop program.
2. Connect extension tubing to the distributor tubing on the underside of the sampler.
3. Isco 6712 models, hit stop key and follow program.
4. On 900 models, press the Pump Operation key and then the select Purge.
5. Follow the steps below and check each as it is done.

1 jar 3/4 full, other small amount  
clean jars, and sampler.  
cell phone + radio on  
date and time correct,  
Restart program.

Pump approximately 1/2 gallon tap water through tubing.

Pump approximately 1/2 gallon of Liquinox through tubing.

Pump a large quantity of tap water through tubing.

Pump a small amount of Nitric Acid (pH 3 - 4) through tubing.

Pump approximately 1/2 - 1 gallon deionized water through tubing.

6. Disconnect the extension tubing and make sure the distributor tubing is seated properly.
7. Replace the base and clean bottles.
8. If the data has been downloaded to the DTU, START the program from the beginning.
9. If the data has not been downloaded, RESUME the program.

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	04/09/02
ARRIVAL TIME	1140	DEPARTURE TIME	1155	SERVICED BY <i>[Signature]</i>
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.3 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS Perform alarm test, cell phone and tipping bucket  
called office, will review program at later date  
Restart program *(RM)*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird		DATE	04-10-02
ARRIVAL TIME	1005	DEPARTURE TIME	SERVICED BY: <i>Ram</i>	
SAMPLER	SIGMA	900	STATION CONDITION: <i>Good</i>	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK *(Y)* N

STATION DATA COPIED: Y / N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.0 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Perform tip test, check on alarm*

*Station worked correctly. PT needs to be serviced.*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	4/16/02	
ARRIVAL TIME	0955	DEPARTURE TIME	1000	SERVICED BY	<i>gum</i>
SAMPLER	SIGMA	900	STATION CONDITION:		<i>Good</i>
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	<i>13.1</i> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site, cell phone & radio ON*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	04/22/02
ARRIVAL TIME	1012	DEPARTURE TIME	1020	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	Good
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.1 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *adjust PT readings, 1st 0.721 drain dry*  
*clear around sensors, 2nd 0.057 = 0.00*  
*cell phone & radio on*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	04/24/02
ARRIVAL TIME	1042	DEPARTURE TIME	1055	SERVICED BY <i>(Signature)</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>Good</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	13.1 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check station, level reading 0.051 gpm*  
*perform tipping bucket test, partial, also at 1050#23*  
*Restart program* *(Signature)*

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	04/30/02	
ARRIVAL TIME	0930	DEPARTURE TIME	0935	SERVICED BY	Flere
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK: Y Y N

STATION DATA COPIED: Y N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS check Station, Radio & cell phone on  
Date and time correct  
level readings good

WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	5/7/02
ARRIVAL TIME	0902	DEPARTURE TIME	0905	SERVICED BY <i>Allen</i>
SAMPLER	SIGMA	900	STATION CONDITION:	
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.9 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Everything looks good.*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	5/15/02
ARRIVAL TIME	0835	DEPARTURE TIME	0900	SERVICED BY <i>Allen</i>
SAMPLER	SIGMA	900	STATION CONDITION:	<i>ok</i>
SAMPLER	ISCO	6712	STATION CONDITION:	

ENTRY MADE STATION LOG BOOK: Y / N

STATION DATA COPIED: Y / N

	CHECKED/ SERVICED/ CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *Found cell phone fuse blown. Replace fuse and turn cell phone on. Levels good*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	5/23/02	
ARRIVAL TIME	1258	DEPARTURE TIME	1:05	SERVICED BY	(Signature)
SAMPLER	SIGMA	900	STATION CONDITION:	Good	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	12.8 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS *check site, cell phone on, level good*

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird		DATE	6/5/02	
ARRIVAL TIME	0848	DEPARTURE TIME	0855	SERVICED BY	(Signature)
SAMPLER	SIGMA	900	STATION CONDITION:	(Signature)	
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK Y/N

STATION DATA COPIED: Y/N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	<u>YES</u> 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS: check site, everything working

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WATER QUALITY SAMPLER MAINTENANCE LOG SHEET

SITE	Thunderbird Road		DATE	06/13/02	
ARRIVAL TIME	0825	DEPARTURE TIME	0840	SERVICED BY	(Arew)
SAMPLER	(SIGMA)	900	STATION CONDITION:		Good
SAMPLER	ISCO	6712	STATION CONDITION:		

ENTRY MADE STATION LOG BOOK:  Y  N

STATION DATA COPIED:  Y  N

	CHECKED / SERVICED / CALIBRATED	CONDITION	REPLACED?	NEEDS REPLACING?	NOTES
BATTERY VOLTAGE	(YES) NO	GOOD FAIR POOR	YES NO	YES NO	12.6 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	
RAINGAUGE	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	length (feet)
SAMPLER PUMP TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
SAMPLER DISTRIBUTOR TUBING	YES NO	GOOD FAIR POOR	YES NO	YES NO	
DEPTH SENSOR	YES NO	GOOD FAIR POOR	YES NO	YES NO	depth (inch)
CALIBRATE DEPTH SENSOR	YES NO	GOOD FAIR POOR	N/A	N/A	
CALIBRATE SAMPLE VOLUME	YES NO	GOOD FAIR POOR	N/A	N/A	mL
CLEANED SAMPLE INTAKE TUBING	YES NO	GOOD FAIR POOR	N/A	N/A	

NOTES / ACTIONS clean solar panel, funnel and screen. bucket level.

cell phone & level good.

0840 Perform tip test / alarm test, 0841 receive phone alarm.

0856 Perform 2nd test, 0858 alarm