

February 1981

WRRRI Report No. 132
Appendix B

**TRANSPORT MECHANISMS IN SEDIMENT RICH STREAMS
HEAVY METAL AND NUTRIENT LOAD OF THE
RIO SAN JOSE-RIO PUERCO SYSTEMS**

Project No. B-062-NMEX

APPENDIX B

RAW DATA, AVERAGE AND STANDARD DEVIATIONS

Blue water Lake 4- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	...	
NO3-	...				
NOx	...				
Cl-	...				
Total Anions		Total Cations	.....
% Difference				

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....		Mo.....	2.0E+01
Ba.....		Ni.....	
Cd.....		Pb.....	
Co.....		Se.....	5.0E+00
Cr.....	1.0E+00	V.....	5.0E+01
Cu.....		U.....	
Hg.....	1.0E+00	Zn.....	9.0E+01
Mn.....			

Averages for Blue Water Lake

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...		Na...	
CO ₃ ⁻ ...		K....	
SO ₄ ⁻ ...		Ca...	
PO ₄ ⁻ ...		Mg...	
NO ₂ ⁻		NH ₃ ..	
NO ₃ ⁻			
NO _x			
Cl ⁻			
Total Anions.....		Total Cations.	
% Difference.....			

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....		Mo.....	2.0E+01
Ba.....		Ni.....	
Cd.....		Pb.....	
Co.....		Se.....	5.0E+00
Cr.....	1.0E+00	V.....	5.0E+01
Cu.....		U.....	
Hg.....	1.0E+00	Zn.....	9.0E+01
Mn.....			

Standard Deviations for Blue Water Lake

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...		Na...	
CO ₃ ⁻⁻ ...		K....	
SO ₄ ⁻⁻ ...		Ca...	
PO ₄ ⁻⁻⁻ ..		Mg...	
NO ₂ ⁻		NH ₃ ..	
NO ₃ ⁻			
NO _x			
Cl ⁻			
Total Anions.....		Total Cations.	
% Difference.....			

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....	Pb.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Blue Water Lake Dig 4- 0-80 9

Metals Analysis

As.....	2.5E+00	Mo.....	5.8E+01
Ba.....		Ni.....	
Cd.....	2.9E+01	Pb.....	2.5E+01
Co.....	1.1E+00	Se.....	5.0E+00
Cr.....	9.0E+00	V.....	7.5E+01
Cu.....	2.3E+01	U.....	7.0E+01
Hg.....	1.2E+00	Zn.....	1.9E+01
Mn.....			

Averages for Blue Water Lake Dig

Metals Analysis

As.....	2.5E+00	Mo.....	5.8E+01
Ba.....		Pi.....	
Cd.....	2.9E+01	Pb.....	2.5E+01
Co.....	1.1E+00	Se.....	5.0E+00
Cr.....	9.0E+00	V.....	7.5E+01
Cu.....	2.3E+01	U.....	7.0E+01
Hg.....	1.2E+00	Zn.....	1.9E+01
Mn.....			

Standard Deviations for Blue Water Lake Dig

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Milan 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	1.4E+02	2.3E+00	Na	9.4E+00	4.1E-01
CO3--	0.0E+00	0.0E+00	K	2.5E+00	6.4E-02
SO4--	4.8E+01	1.0E+00	Ca	3.9E+01	1.9E+00
PO4--			Mg	1.0E+01	8.2E-01
NO2-	1.0E-02	2.2E-04	NH3		
NO3-	1.0E-02	1.6E-04			
NOx					
Cl-	6.0E+00	1.7E-01			
Total Anions		3.5E+00	Total Cations		3.2E+00
% Difference		7.10%			

General Conditions

pH (field)	7.8E+00
T(C) (field)	1.4E+01
Conductivity	2.8E+02
Kjeldahl N	
Sediment	1.1E+03
Total Dissolved Solids	
Alpha Count	

Metals Analysis

As	2.0E+00	Mo	6.1E+01
Ba	6.9E+01	Ni	4.1E+01
Cd	3.6E-01	Pb	2.8E+00
Co		Se	4.0E+00
Cr	9.0E-01	V	1.5E+02
Cu	2.5E+01	U	8.0E+01
Hg	1.0E-01	Zn	
Mn			

Averages for Milan

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	1.4E+02	Na...	9.4E+00
CO ₃ ⁻⁻ ...	0.0E+00	K....	2.5E+00
SO ₄ ⁻⁻ ...	4.8E+01	Ca...	3.9E+01
PO ₄ ⁻⁻⁻ ..		Mg...	1.0E+01
NO ₂ ⁻	1.0E-02	NH ₃ ..	
NO ₃ ⁻	1.0E-02		
NOx.....			
Cl ⁻	6.0E+00		
Total Anions.....	3.5E+00	Total Cations,	3.2E+00
% Difference.....	0.16%		

General Conditions

pH (field).....	7.8E+00
T(C) (field).....	1.4E+01
Conductivity.....	2.8E+02
Kjeldahl N.....	
Sediment.....	1.1E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	2.0E+00	Mo.....	6.1E+01
Ba.....	6.9E+01	Ni.....	4.1E+01
Cd.....	3.6E-01	Pb.....	2.8E+00
Co.....		Se.....	4.0E+00
Cr.....	9.0E-01	V.....	1.5E+02
Cu.....	2.5E+01	U.....	8.0E+01
Hg.....	1.0E-01	Zn.....	
Mn.....			

Standard Deviations for Milan

Anion	ppm	Cation	ppm
HCO3-	Na	....
CO3--	K	....
SO4--	Ca	....
PO4--	Mg	....
NO2-	NH3	..
NO3-		
NOx		
Cl-		
Total Anions	Total Cations	..
% Difference	..... 1.06%		

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Milan Dig

4- 0-80 0

Metals Analysis

As.....	5.3E+01	Mo.....	6.0E+01
Ba.....		Ni.....	2.9E+01
Cd.....	5.7E-01	Pb.....	9.1E+00
Co.....	9.3E+00	Se.....	5.0E+00
Cr.....	1.1E+02	V.....	9.0E+01
Cu.....	1.4E+01	U.....	2.9E+02
Hg.....	2.0E-01	Zn.....	4.3E+02
Mn.....			

Averages for Milan Dig

Metals Analysis

As.....	5.3E+01	Mo.....	6.0E+01
Ba.....		Ni.....	2.9E+01
Cd.....	5.7E-01	Pt.....	9.1E+00
Co.....	9.3E+00	Se.....	5.0E+00
Cr.....	1.1E+02	V.....	9.0E+01
Cu.....	1.4E+01	U.....	2.9E+02
Hg.....	2.0E-01	Zn.....	4.3E+02
Mn.....			

Standard Deviations for Milan Dig

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Arroyo Del Puerto 6- 7-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.2E+02	3.6E+00	Na...	2.8E+02	1.2E+01
CO ₃ ⁻⁻ ...			K....	1.5E+01	3.9E-01
SO ₄ ⁻⁻ ...	9.1E+02	1.9E+01	Ca...	1.8E+02	9.2E+00
PO ₄ ⁻⁻⁻ ...	6.6E+00	2.1E-01	Mg...	6.9E+01	5.7E+00
NO ₂ ⁻	4.0E-02	8.7E-04	NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻	1.5E+02	4.2E+00			
Total Anions.....		2.7E+01	Total Cations.		2.7E+01
% Difference.....		1.05%			

General Conditions

pH (field).....	7.0E+00
T(C) (field).....	1.9E+01
Conductivity.....	
Kjeldahl N.....	2.3E+00
Sediment.....	1.1E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	1.0E+00	Mo.....	6.7E+02
Ba.....	9.3E+01	Ni.....	5.3E+00
Cd.....	9.7E-01	Pb.....	1.2E+00
Co.....	4.2E+01	Se.....	2.0E+02
Cr.....	2.2E-01	V.....	6.2E+01
Cu.....	7.2E+00	U.....	1.4E+03
Hg.....	2.0E-01	Zn.....	
Mn.....	1.7E+01		

Arroyo Del Puerto 11-12-79 C

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.0E+02	3.2E+00	Na...	2.6E+02	1.1E+01
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K....	2.6E+01	6.5E-01
SO ₄ ⁻⁻ ...	8.7E+02	1.8E+01	Ca...	1.8E+02	9.1E+00
PO ₄ ⁻⁻⁻ ...			Mg...	7.1E+01	5.9E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻	3.6E+00	5.8E-02			
NO _x					
Cl ⁻	1.5E+02	4.2E+00			
Total Anions.....		2.6E+01	Total Cations..		2.7E+01
% Difference.....		4.45%			

General Conditions

pH (field).....	6.5E+00
T(C) (field).....	2.0E+00
Conductivity.....	1.3E+03
Kjeldahl N.....	
Sediment.....	3.2E+02
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	7.9E+01	Mo.....	8.5E+02
Ba.....		Ni.....	7.1E+01
Cd.....	2.2E+00	Pb.....	6.8E+01
Co.....	2.9E+01	Se.....	1.6E+02
Cr.....	2.0E+00	V.....	1.2E+02
Cu.....	9.2E-01	U.....	1.1E+02
Hg.....	3.0E-01	Zn.....	2.0E+01
Mn.....	3.4E+01		

Arroyo Del Puerto 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.3E+02	3.7E+00	Na...	2.9E+02	1.3E+01
CO ₃ ⁼ ...			K....	1.6E+01	4.0E-01
SO ₄ ⁼ ...	9.5E+01	2.0E+00	Ca...	2.0E+02	9.8E+00
PO ₄ ⁼ ...			Mg...	8.1E+01	6.7E+00
NO ₂ ⁻	2.0E-02	4.3E-04	NH ₃ ..		
NO ₃ ⁻	7.0E-02	1.1E-03			
NOx.....					
Cl ⁻	1.5E+02	4.3E+00			
Total Anions.....		1.0E+01	Total Cations.		3.0E+01
% Difference.....		99.05%			

General Conditions

pH (field)..... 8.4E+00
T(C) (field)..... 1.5E+01
Conductivity..... 2.3E+03
Kjeldahl N.....
Sediment..... 8.0E+03
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.6E+01	Mo.....	1.1E+03
Ba.....	8.9E+01	Ni.....	6.4E+01
Cd.....	1.1E+00	Pb.....	8.3E+00
Co.....		Se.....	3.8E+01
Cr.....	2.8E+00	V.....	1.2E+02
Cu.....	1.5E+01	U.....	2.8E+03
Hg.....	1.0E-02	Zn.....	1.6E+02
Mn.....			

Averages for Arroyo Del Puerto

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.2E+02	Na...	2.8E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	1.9E+01
SO ₄ ⁻⁻ ...	6.3E+02	Ca...	1.9E+02
PO ₄ ⁻⁻ ...	6.6E+00	Mg...	7.4E+01
NO ₂ ⁻	2.3E-02	NH ₃ ..	
NO ₃ ⁻	1.8E+00		
NOx.....			
Cl ⁻	1.5E+02		
Total Anions.....	2.1E+01	Total Cations.	2.8E+01
% Difference.....	3.17%		

General Conditions

pH (field).....	7.3E+00
T(C) (field).....	1.2E+01
Conductivity.....	1.8E+03
Kjeldahl N.....	2.3E+00
Sediment.....	3.1E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.9E+01	Mo.....	8.7E+02
Ba.....	9.1E+01	Ni.....	4.7E+01
Cd.....	1.4E+00	Pb.....	2.6E+01
Co.....	3.5E+01	Se.....	1.6E+02
Cr.....	1.7E+00	V.....	1.0E+02
Cu.....	7.6E+00	U.....	1.4E+03
Hg.....	1.7E-01	Zn.....	9.0E+01
Mn.....	2.5E+01		

Standard Deviations for Arroyo Del Puerto

Anion	ppm	Cation	ppm
HC03-...	1.5E+01	Na...	1.7E+01
C03--...		K....	5.8E+00
SO4--...	4.6E+02	Ca...	8.1E+00
PO4---..		Mg...	6.1E+00
NO2-.....	1.5E-02	NH3..	
NO3-.....	2.5E+00		
NOX.....			
Cl-.....	1.2E+00		
Total Anions.....	9.5E+00	Total Cations..	1.4E+00
% Difference.....	16.96%		

General Conditions

pH (field).....	9.8E-01
T(C) (field).....	8.9E+00
Conductivity.....	1.9E+03
Kjeldahl N.....	
Sediment.....	4.2E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.9E+01	Mn.....	2.2E+02
Ba.....	1.0E+02	Ni.....	3.6E+01
Cd.....	7.1E-01	Pb.....	3.6E+01
Co.....	4.6E+01	Se.....	1.2E+02
Cr.....	1.3E+00	V.....	3.3E+01
Cu.....	6.8E+00	d.....	1.3E+03
Hg.....	1.5E-01	Zn.....	1.4E+02
Mn.....	3.7E+01		

Arroyo Del Puerto D 6- 0-79 0

Metals Analysis

As.....	1.0E+01	Mo.....	7.8E+02
Ba.....	6.0E+02	Ni.....	3.3E+01
Cd.....	0.0E+00	Pb.....	1.7E+01
Co.....	3.7E+01	Se.....	1.5E+02
Cr.....	6.4E+00	V.....	5.0E+01
Cu.....	1.7E+01	0.....	
Hg.....	2.0E-01	Zn.....	
Mn.....	1.0E+02		

Arroyo Del Puerto D 11- 0-79 0

Metals Analysis

As.....	4.0E+00	Mo.....	6.8E+02
Ba.....	8.4E+01	Ni.....	1.1E+03
Cd.....	5.3E-01	Pb.....	7.3E+00
Co.....	1.7E+01	Se.....	1.4E+02
Cr.....	2.5E+01	V.....	1.4E+02
Cu.....	2.1E+02	U.....	2.0E+03
Hg.....	1.1E+00	Zn.....	
Mn.....	2.2E+01		

Arroyo Del Puerto D 4- 0-80 0

Metals Analysis

As.....	8.9E+01	Mo.....	8.0E+02
Ba.....	1.1E+02	Ni.....	1.3E+02
Cd.....	2.5E-01	Pb.....	5.8E+01
Co.....	6.5E+01	Se.....	1.5E+02
Cr.....	5.2E+01	V.....	3.7E+02
Cu.....	6.7E+01	U.....	2.5E+03
Hg.....	2.0E-01	Zn.....	
Mn.....			

Averages for Arroyo Del Puerto D

Metals Analysis

As.....	3.4E+01	Mo.....	7.5E+02
Ba.....	2.6E+02	Ni.....	4.1E+02
Cd.....	2.6E-01	Pb.....	2.7E+01
Co.....	3.9E+01	Se.....	1.5E+02
Cr.....	2.8E+01	V.....	1.9E+02
Cu.....	9.7E+01	U.....	2.3E+03
Hg.....	5.0E-01	Zn.....	
Mn.....	6.2E+01		

Standard Deviations for Arroyo Del Puerto D

Metals Analysis

As.....	4.7E+01	Mo.....	6.6E+01
Ba.....	2.9E+02	Ni.....	5.7E+02
Cd.....	2.7E-01	Pb.....	2.7E+01
Co.....	2.4E+01	Se.....	7.5E+00
Cr.....	2.3E+01	V.....	1.6E+02
Cu.....	9.8E+01	U.....	2.3E+03
Hg.....	5.2E-01	Zn.....	
Mn.....	9.2E+01		

Arroyo Puerto 6- 7-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.9E+02	3.1E+00	Na...	1.0E+02	4.4E+00
CO ₃ ⁻⁻ ...			K....	6.8E+00	1.7E-01
SO ₄ ⁻⁻ ...	2.7E+02	5.5E+00	Ca...	6.8E+01	3.4E+00
PO ₄ ⁻⁻⁻ ...	1.3E-01	4.1E-03	Mg...	1.3E+01	1.1E+00
NO ₂ ⁻	2.7E+00	6.0E-02	NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻					
Total Anions.....		8.7E+00	Total Cations..		9.0E+00
% Difference.....		4.26%			

General Conditions

pH (field)..... 6.8E+00
T(C) (field)..... 2.2E+01
Conductivity.....
Kjeldahl N..... 1.1E+00
Sediment..... 1.8E+01
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	1.8E+01	Ko.....	2.3E+02
Ba.....	1.6E+02	Bi.....	6.2E+00
Cd.....	1.6E-01	Pt.....	
Co.....	1.4E+01	Se.....	2.9E+01
Cr.....	6.1E+00	V.....	3.8E+01
Cu.....	2.0E+00	U.....	5.8E+02
Hg.....	2.0E-01	Zn.....	2.0E+01
Mn.....	1.7E+02		

Arroyo Puerto 11-12-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	2.1E+02	3.4E+00	Na	1.1E+02	4.7E+00
CO3--	0.0E+00	0.0E+00	K	5.8E+00	1.5E-01
SO4--	2.5E+02	5.3E+00	Ca	4.7E+01	2.3E+00
PO4---			Mg	1.3E+01	1.1E+00
NO2-	1.5E-02	3.3E-04	NH3		
NO3-					
NOx					
Cl-	8.1E+00	2.3E-01			
Total Anions		8.9E+00	Total Cations		8.2E+00
% Difference		7.26%			

General Conditions

pH (field)..... 6.1E+00
T(C) (field)..... 1.5E+01
Conductivity..... 6.6E+02
Kjeldahl N.....
Sediment..... 1.3E+01
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.5E+01	Mo.....	3.2E+02
Ba.....	1.5E+02	Ni.....	3.0E+01
Cd.....	1.3E+01	Pb.....	7.8E+01
Co.....	8.5E+00	Se.....	5.6E+01
Cr.....	2.7E-01	V.....	4.9E+01
Cu.....	3.6E-01	U.....	6.0E+02
Hg.....	4.0E-01	Zn.....	2.7E+01
Mn.....	2.7E+01		

Arroyo Puerto 1-18-80 C

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.1E+02	3.5E+00	Na...	1.0E+02	4.5E+00
CO3--...	0.0E+00	0.0E+00	K....	6.7E+00	1.7E-01
SO4--...	2.0E+02	4.1E+00	Ca...	5.1E+01	2.5E+00
PO4---...			Mg...	1.2E+01	1.0E+00
NO2-....	2.0E-02	4.3E-04	NH3..		
NO3-.....	1.5E-01	2.4E-03			
NOx.....					
Cl-.....	1.1E+01	3.2E-01			
Total Anions.....		7.9E+00	Total Cations.		8.3E+00
% Difference.....		4.42%			

General Conditions

pH (field).....	7.1E+00
T(C) (field).....	2.0E+00
Conductivity.....	7.0E+02
Kjeldahl N.....	1.0E-02
Sediment.....	
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	7.4E+01	Mo.....	3.4E+02
Ba.....	1.8E+02	Ni.....	2.8E+01
Cd.....	2.2E+00	Pb.....	4.4E+00
Co.....	1.0E+01	Se.....	4.3E+01
Cr.....	6.6E-01	V.....	1.1E+02
Cu.....	8.5E+00	U.....	1.0E+03
Hg.....	6.0E-01	Zn.....	
Mn.....	5.0E+02		

Arroyo Puerto 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.5E+02	2.4E+00	Na...	1.0E+02	4.4E+00
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K...	4.8E+00	1.2E-01
SO ₄ ⁻⁻ ...	2.2E+02	4.6E+00	Ca...	4.6E+01	2.3E+00
PO ₄ ⁻⁻⁻ ..			Mg...	1.0E+01	6.2E-01
NO ₂ ⁻	2.0E-02	4.3E-04	NH ₃ ..		
NO ₃ ⁻	9.0E-02	1.5E-03			
NOx.....					
Cl ⁻	8.0E+00	2.3E-01			
Total Anions.....		7.2E+00	Total Cations..		7.7E+00
% Difference.....		5.85%			

General Conditions

pH (field)..... 8.4E+00
T(C) (field)..... 1.9E+01
Conductivity..... 7.0E+02
Kjeldahl N.....
Sediment..... 5.7E+02
Total Dissolved Solids... 5.4E+02
Alpha Count.....

Metals Analysis

As.....	9.5E+00	Mo.....	2.3E+02
Ba.....	8.1E+01	Ni.....	4.8E+01
Cd.....	1.3E-01	Pb.....	1.2E+01
Co.....		Se.....	2.1E+01
Cr.....	1.3E+00	V.....	1.2E+02
Cu.....	7.7E+00	U.....	2.9E+02
Hg.....	1.5E-01	Zn.....	5.0E+01
Mn.....			

Arroyo Puerto

9- 9-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻			Na....		
CO ₃ ⁼			K....		
SO ₄ ⁼			Ca....		
PO ₄ ⁼			Mg....		
NO ₂ ⁻			NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻					
Total Anions.....			Total Cations.		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	1.1E+01	Mo.....	4.7E+02
Ba.....	2.0E+02	Ni.....	3.5E+01
Cd.....		Pb.....	2.7E+01
Co.....	8.4E+00	Se.....	2.6E+01
Cr.....	9.0E+00	V.....	3.8E+01
Cu.....	7.5E+00	U.....	8.8E+02
Hg.....	2.0E-01	Zn.....	
Mn.....			

Arroyo Puerto 11- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.1E+02	3.4E+00	Na...	1.0E+02	4.3E+00
CO3--...	8.3E+00	2.8E-01	K....	7.1E+00	1.8E-01
SO4--...	1.8E+02	3.9E+00	Ca...	4.6E+01	2.3E+00
PO4---...	1.8E-02	5.7E-04	Mg...	1.2E+01	9.9E-01
NO2-.....			NH3..		
NO3-.....	2.6E-01	4.2E-03			
NOx.....					
Cl-.....	1.2E+01	3.5E-01			
Total Anions.....		7.9E+00	Total Cations.		7.8E+00
% Difference.....		1.24%			

General Conditions

pH (field).....	8.3E+00
T(C) (field).....	
Conductivity.....	7.5E+02
Kjeldahl N.....	
Sediment.....	6.0E+02
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Averages for Arroyo Puerto

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	1.9E+02	Na...	1.0E+02
CO ₃ ⁻⁻ ...	2.1E+00	K....	6.2E+00
SO ₄ ⁻⁻ ...	2.2E+02	Ca...	5.2E+01
PO ₄ ⁻⁻⁻ ...	7.4E-02	Mg...	1.2E+01
NO ₂ ⁻	7.0E-01	NH ₃ ..	
NO ₃ ⁻	1.7E-01		
NOx.....			
Cl ⁻	1.0E+01		
Total Anions.....	8.1E+00	Total Cations,	8.2E+00
% Difference.....	0.61%		

General Conditions

pH (field).....	7.4E+00
T(C) (field).....	1.5E+01
Conductivity.....	7.0E+02
Kjeldahl N.....	5.4E-01
Sediment.....	3.0E+02
Total Dissolved Solids...	5.4E+02
Alpha Count.....	

Metals Analysis

As.....	2.9E+01	Mo.....	3.2E+02
Ba.....	1.6E+02	Ni.....	2.9E+01
Cd.....	3.8E+00	Pb.....	3.0E+01
Co.....	1.0E+01	Se.....	3.5E+01
Cr.....	3.5E+00	V.....	7.1E+01
Cu.....	5.2E+00	U.....	6.7E+02
Hg.....	3.1E-01	Zn.....	3.2E+01
Mn.....	2.3E+02		

Standard Deviations for Arroyo Puerto

Anion	ppm	Cation	ppm
HCO3-...	2.7E+01	Na...	3.0E+00
CO3--...	4.1E+00	K....	9.1E-01
SO4--...	3.5E+01	Ca...	9.2E+00
PO4---...	7.9E-02	Mg...	1.2E+00
NO2-.....	1.4E+00	NH3..	
NO3-.....	8.6E-02		
NOx.....			
Cl-.....	2.2E+00		
Total Anions.....	4.1E+00	Total Cations.	4.1E+00
% Difference.....	1.65%		

General Conditions

pH (field).....	8.7E+00
T(C) (field).....	2.2E+01
Conductivity.....	5.8E+02
Kjeldahl N.....	2.1E+01
Sediment.....	4.2E+02
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.3E+01	Mo.....	1.9E+02
Ba.....	9.5E+01	Ni.....	2.5E+01
Cd.....	1.3E+01	Pb.....	4.6E+01
Co.....	1.7E+01	Se.....	2.7E+01
Cr.....	7.8E+00	V.....	5.7E+01
Cu.....	8.5E+00	U.....	4.4E+02
Hg.....	5.2E+00	Zn.....	5.4E+01
Mn.....	3.8E+02		

Arroyo Puerto Dig 6- 0-79 0

Metals Analysis

As.....	1.6E+01	Mo.....	1.9E+02
Ba.....	2.0E+02	Ni.....	3.2E+00
Cd.....	1.0E-02	Pb.....	2.0E+01
Co.....	1.1E+01	Se.....	1.9E+01
Cr.....	6.3E-01	V.....	1.4E+01
Cu.....	1.7E+01	U.....	
Hg.....	1.0E-01	Zn.....	6.5E+02
Mn.....	5.7E+01		

Arroyo Puerto Dig 11- 0-79 0

Metals Analysis

As.....	4.5E+01	Mo.....	2.5E+02
Ba.....	1.2E+02	Ni.....	
Cd.....	3.7E+00	Pb.....	0.0E+00
Co.....	2.0E+02	Se.....	3.0E+00
Cr.....	2.4E+02	V.....	4.9E+02
Cu.....	0.0E+00	U.....	1.9E+03
Hg.....	1.3E+00	Zn.....	
Mn.....	2.8E+02		

Arroyo Puerto Dig 1- 0-80 0

Metals Analysis

As.....	2.1E+01	Mo.....	2.2E+02
Ba.....	3.2E+02	Ni.....	7.2E+00
Cd.....	3.0E+00	Pb.....	1.3E+01
Co.....	0.0E+00	Se.....	9.0E+00
Cr.....		V.....	6.4E+01
Cu.....		U.....	8.4E+02
Hg.....	4.0E-01	Zn.....	
Mn.....	4.6E+01		

Arroyo Puerto Dig 4- 0-80 0

Metals Analysis

As.....	9.0E+00	Mo.....	2.5E+02
Ba.....	8.3E+01	Ni.....	2.0E+01
Cd.....	3.7E-01	Pb.....	1.6E+02
Co.....	4.0E+00	Se.....	1.0E+01
Cr.....	6.0E+00	V.....	5.0E+01
Cu.....	1.5E+01	U.....	6.5E+02
Hg.....	2.0E-01	Zn.....	
Mn.....			

Arroyo Puerto Dig

9- 0-80

0

Metals Analysis

As.....	1.1E+01	Mo.....	4.7E+02
Ba.....	1.2E+04	Ni.....	3.5E+01
Cd.....	2.0E+00	Pb.....	9.4E+00
Co.....	3.5E+00	Se.....	6.8E+02
Cr.....	8.9E+02	V.....	5.2E+01
Cu.....		U.....	1.6E+03
Hg.....	8.0E-01	Zn.....	
Mn.....			

Averages for Arroyo Puerto Digo

Metals Analysis

As.....	2.0E+01	Mo.....	2.8E+02
Ba.....	2.6E+03	Ni.....	1.6E+01
Cd.....	1.8E+00	Pb.....	4.0E+01
Co.....	4.3E+01	Se.....	1.4E+02
Cr.....	2.9E+02	V.....	1.3E+02
Cu.....	1.1E+01	U.....	1.3E+03
Hg.....	5.6E-01	Zn.....	6.5E+02
Mn.....	1.3E+02		

Standard Deviations for Arroyo Puerto Dig

Metals Analysis

As.....	1.5E+01	Mo.....	1.1E+02
Ba.....	5.5E+03	Ni.....	2.1E+01
Cd.....	1.6E+00	Pb.....	6.6E+01
Co.....	8.7E+01	Se.....	3.0E+02
Cr.....	4.5E+02	V.....	2.0E+02
Cu.....	2.3E+01	U.....	9.5E+02
Hg.....	4.9E-01	Zn.....	
Mn.....	1.9E+02		

San Mateo Creek 1-15-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	2.3E+02	3.8E+00	Na	1.9E+02	8.3E+00
CO3--			K	8.8E+00	2.3E-01
SO4--			Ca	8.7E+01	4.3E+00
PO4---			Mg	2.6E+01	2.1E+00
NO2-	3.8E-01	8.3E-03	NH3		
NO3-	1.6E+00	2.6E-02			
NOx	2.0E+00				
Cl-	2.2E+01	6.2E-01			
Total Anions		4.4E+00	Total Cations		1.5E+01
% Difference		108.48%			

General Conditions

pH (field)	8.1E+00
T(C) (field)	1.0E+01
Conductivity	7.3E+02
Kieldahl N	3.7E+00
Sediment	1.2E+02
Total Dissolved Solids	
Alpha Count	

Metals Analysis

As	3.0E+00	Mo	6.7E+02
Ba	7.2E+01	Ni	
Cd	3.0E+00	Pb	3.6E-01
Co	1.9E+01	Se	
Cr	5.1E+00	V	2.4E+01
Cu	1.1E+01	U	1.7E+03
Hg	3.0E-01	Zn	
Mn	1.5E+01		

San Mateo Creek 4-21-80 6

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.8E+02	3.0E+00	Na...	1.0E+02	4.5E+00
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K...	5.3E+00	1.4E-01
SO ₄ ⁻⁻ ...	1.9E+02	4.0E+00	Ca...	3.6E+01	1.8E+00
PO ₄ ⁻⁻⁻ ...			Mg...	1.1E+01	9.1E-01
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻	1.0E-02	1.6E-04			
NOx.....					
Cl ⁻	1.8E+01	5.1E-01			
Total Anions.....		7.5E+00	Total Cations.		7.4E+00
% Difference.....		1.26%			

General Conditions

pH (field)..... 8.3E+00
T(C) (field)..... 1.5E+01
Conductivity..... 6.5E+02
Kjeldahl N.....
Sediment..... 7.5E+03
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Mo.....	1.5E+02
Ba.....	1.6E+02	Ni.....	4.4E+01
Cd.....	2.0E-01	Pb.....	1.0E+01
Co.....		Se.....	8.0E+00
Cr.....	2.3E+01	V.....	1.2E+02
Cu.....		U.....	3.4E+02
Hg.....	2.0E-01	Zn.....	5.0E+01
Mn.....			

Averages for San Mateo Creek

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.1E+02	Na...	1.5E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	7.0E+00
SO ₄ ⁻⁻ ...	1.9E+02	Ca...	6.1E+01
PO ₄ ⁻⁻⁻ ..		Mg...	1.8E+01
NO ₂ ⁻	1.9E-01	NH ₃ ..	
NO ₃ ⁻	8.0E-01		
NOx.....	2.0E+00		
Cl ⁻	2.0E+01		
Total Anions.....	5.9E+00	Total Cations,	1.1E+01
% Difference.....	13.72%		

General Conditions

pH (field).....	8.2E+00
T(C) (field).....	1.3E+01
Conductivity.....	6.9E+02
Kjeldahl N.....	3.7E+00
Sediment.....	3.8E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.0E+00	Mo.....	4.1E+02
Ba.....	1.2E+02	Ni.....	4.4E+01
Cd.....	1.6E+00	Pb.....	5.3E+00
Co.....	1.9E+01	Se.....	8.0E+00
Cr.....	1.4E+01	V.....	7.1E+01
Cu.....	1.1E+01	U.....	1.0E+03
Hg.....	2.5E-01	Zn.....	5.0E+01
Mn.....	1.5E+01		

Standard Deviations for San Mateo Creek

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	3.5E+01	Na...	6.1E+01
CO ₃ ⁻⁻ ...		K....	2.5E+00
SO ₄ ⁻⁻ ...		Ca...	3.6E+01
PO ₄ ⁻⁻⁻ ...		Mg...	1.1E+01
NO ₂ ⁻	2.6E-01	NH ₃ ..	
NO ₃ ⁻	1.1E+00		
NO _x			
Cl ⁻	2.8E+00		
Total Anions.....	2.1E+00	Total Cations..	5.4E+00
% Difference.....	36.13%		

General Conditions

pH (field).....	1.6E-01
T(C) (field).....	3.5E+00
Conductivity.....	5.7E+01
Kjeldahl N.....	
Sediment.....	5.2E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	0.0E+00	Mo.....	3.7E+02
Ba.....	6.4E+01	Ni.....	
Cd.....	2.0E+00	Pb.....	7.0E+00
Co.....		Se.....	
Cr.....	1.2E+01	V.....	6.7E+01
Cu.....		U.....	9.5E+02
Hg.....	7.1E-02	Zn.....	
Mn.....			

San Mateo Creek Dig 1- 0-79 0

Metals Analysis

As.....	5.0E+00	Mo.....	4.6E+02
Ba.....	9.4E+01	Ni.....	1.0E+01
Cd.....	2.2E+00	Pb.....	9.1E+00
Co.....		Se.....	
Cr.....	7.4E+00	V.....	1.2E+01
Cu.....	1.1E+01	U.....	
Hg.....		Zn.....	
Mn.....	8.5E+01		

San Mateo Creek Dig 4- 0-80 0

Metals Analysis

As.....	5.0E+00	Mo.....	8.7E+01
Ba.....	3.8E+02	Ni.....	2.0E+02
Cd.....	9.0E-01	Pb.....	8.8E+01
Co.....	1.5E+02	Se.....	1.0E+01
Cr.....	1.6E+02	V.....	1.0E+02
Cu.....	1.7E+02	U.....	1.3E+03
Hg.....	1.5E+00	Zn.....	8.0E+01
Mn.....			

Averages for San Mateo Creek Dig

Metals Analysis

As.....	5.0E+00	Mo.....	2.7E+02
Ba.....	2.4E+02	Ni.....	1.1E+02
Cd.....	1.5E+00	Pb.....	4.9E+01
Co.....	1.5E+02	Se.....	1.0E+01
Cr.....	8.1E+01	V.....	5.8E+01
Cu.....	9.3E+01	U.....	1.3E+03
Hg.....	1.5E+00	Zn.....	8.0E+01
Mn.....	8.5E+01		

Standard Deviations for San Mateo Creek Dig

Metals Analysis

As.....	0.0E+00	Mo.....	2.6E+02
Ba.....	2.0E+02	Ni.....	1.4E+02
Cd.....	9.1E-01	Pb.....	5.6E+01
Co.....		Se.....	
Cr.....	1.0E+02	V.....	6.4E+01
Cu.....	1.1E+02	U.....	
Hg.....	*	Zn.....	
Mn.....			

San Jose/Lava Flow 1-15-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.1E+02	3.4E+00	Na...	1.3E+02	5.8E+00
CO3-.....			K.....	7.0E+00	1.8E-01
SO4-.....			Ca...	8.2E+01	4.1E+00
PO4-.....	4.8E+00	1.5E-01	Mg...	3.8E+01	3.1E+00
NO2-.....	5.0E-02	1.1E-03	NH3..		
NO3-.....	5.0E-01	8.1E-03			
NOx.....	5.5E-01				
Cl-.....					
Total Anions.....		3.5E+00	Total Cations.		1.3E+01
% Difference.....		115.48%			

General Conditions

pH (field)..... 7.7E+00
T(C) (field)..... 8.0E+00
Conductivity..... 8.5E+02
Kjeldahl N..... 1.3E+01
Sediment..... 1.7E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	1.0E+01	Mo.....	4.8E+01
Ba.....	4.9E+01	Ni.....	
Cd.....	4.8E+00	Pb.....	2.8E-01
Co.....	1.4E+01	Se.....	3.0E+00
Cr.....	6.3E-01	V.....	2.2E+01
Cu.....	1.1E+01	U.....	2.1E+02
Hg.....	2.0E-01	Zn.....	
Mn.....	7.9E+01		

San Jose/Lava Flow 3-19-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.4E+02	3.9E+00	Na...	1.8E+02	7.7E+00
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K....	9.0E+00	2.3E-01
SO ₄ ⁻⁻ ...	3.7E+02	7.6E+00	Ca...	7.6E+01	3.8E-02
PO ₄ ⁻⁻⁻ ...	1.6E+00	5.1E-02	Hg...	5.2E+01	4.3E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..	1.1E-01	
NO ₃ ⁻	1.6E+00	2.6E-02			
NOx.....	1.6E+00				
Cl ⁻	1.4E+02	4.0E+00			
Total Anions.....		1.6E+01	Total Cations..		1.2E+01
% Difference.....		23.65%			

General Conditions

pH (field).....
f(C) (field).....
Conductivity..... 1.1E+03
Kjeldahl N..... 3.1E+00
Sediment..... 2.7E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	6.0E+00	Mo.....	5.8E+00
Ba.....	4.4E+01	Ni.....	6.5E+01
Cd.....	1.3E+01	Pb.....	7.5E+00
Co.....	1.7E+01	Se.....	
Cr.....	1.4E+00	V.....	0.0E+00
Cu.....	9.1E+00	U.....	
Hg.....	1.0E-01	Zn.....	
Mn.....	6.0E+01		

San Jose/Lava Flow 6- 7-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.4E+02	3.9E+00	Na...	1.6E+02	7.0E+00
CO3--...			K...	7.9E+00	2.0E-01
SO4--...	3.4E+02	7.0E+00	Ca...	9.7E+01	4.8E+00
PO4---...	5.3E+00	1.7E-01	Mg...	3.9E+01	3.3E+00
NO2-....	1.6E+00	3.4E-02	NH3..		
NO3-.....					
NOx.....					
Cl-.....	1.5E+02	4.1E+00			
Total Anions.....		1.5E+01	Total Cations..		1.5E+01
% Difference.....		0.34%			

General Conditions

pH (field).....	7.4E+00
f(C) (field).....	2.2E+01
Conductivity.....	1.5E+03
Kjeldahl N.....	5.5E+00
Sediment.....	
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	2.3E+01	Mo.....	2.1E+02
Ba.....		Ni.....	2.6E+01
Cd.....		Pb.....	1.9E+00
Co.....	2.3E+01	Se.....	7.0E+00
Cr.....	5.3E-01	V.....	3.3E+01
Cu.....	1.2E+01	U.....	5.3E+01
Hg.....	3.0E-01	Zn.....	
Mn.....	4.1E+01		

San Jose/Lava Flow 11- 0-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...			Na...		
CO ₃ ⁼ ...			K....		
SO ₄ ⁼ ...			Ca...		
PO ₄ ⁼ ...			Mg...		
NO ₂ ⁻			NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻					
Total Anions.....			Total Cations..		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Ag.....	6.3E+01
Ba.....	6.4E+01	Ni.....	5.4E+01
Cd.....	7.1E-01	Pb.....	7.3E+01
Co.....	1.3E+01	Se.....	4.0E+00
Cr.....	9.6E+00	V.....	7.2E+01
Cu.....	4.4E+01	U.....	3.0E+01
Hg.....	1.2E+00	Zn.....	2.0E+01
Mn.....	2.9E+01		

San Jose/Lava Flow 1-18-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.5E+02	4.1E+00	Na...	1.2E+02	5.1E+00
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K....	7.3E+00	1.9E-01
SO ₄ ⁻⁻ ...	2.3E+02	4.7E+00	Ca...	6.2E+01	3.1E+00
PO ₄ ⁻⁻⁻ ...			Mg...	3.1E+01	2.5E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻	6.8E-01	1.1E-02			
NOx.....					
Cl ⁻	7.9E+01	2.2E+00			
Total Anions.....		1.1E+01	Total Cations.		1.1E+01
% Difference.....		1.77%			

General Conditions

pH (field).....	7.0E+00
T(C) (field).....	7.0E+00
Conductivity.....	9.5E+02
Kjeldahl N.....	7.5E-01
Sediment.....	2.5E-01
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.0E+00	Mo.....	1.0E+01
Ba.....	5.0E+01	Ni.....	4.0E+01
Cd.....	1.4E+01	Pb.....	2.5E+01
Co.....	1.6E+01	Se.....	4.0E+00
Cr.....	7.6E-01	V.....	5.4E+01
Cu.....	7.2E+00	U.....	4.5E+01
Hg.....	2.0E-01	Zn.....	6.1E+01
Mn.....	2.4E+02		

San Jose/Lava Flow 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	1.8E+02	2.9E+00	Na...	6.1E+01	2.7E+00
CO3--...	0.0E+00	0.0E+00	K....	5.4E+00	1.4E-01
SO4--...	1.9E+02	4.0E+00	Ca...	6.2E+01	3.1E+00
PO4---...			Hg...	1.8E+01	1.5E+00
NO2-.....	1.0E-02	2.2E-04	NH3..		
NO3-.....	1.6E-01	2.6E-03			
NOx.....					
Cl-.....	3.3E+01	9.4E-01			
Total Anions.....		7.8E+00	Total Cations.		7.4E+00
% Difference.....		6.10%			

General Conditions

pH (field)..... 7.6E+00
T(C) (field)..... 1.5E+01
Conductivity..... 6.5E+02
Kjeldahl N.....
Sediment..... 5.7E-01
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Mo.....	5.6E+01
Ba.....	9.8E+01	Ni.....	4.0E+01
Cd.....	1.0E-01	Pb.....	3.1E+00
Co.....		Se.....	1.4E+01
Cr.....	2.0E+00	V.....	1.1E+02
Cu.....	2.0E+01	U.....	1.5E+02
Hg.....	2.0E-01	Zn.....	5.0E+01
Mn.....	8.0E+01		

San Jose/Lava Flow 9- 0-80 0

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	...	
NO3-	...				
NOx	...				
Cl-	...				
Total Anions		Total Cations	.....
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	4.3E+00	Mo	6.0E+00
Ba	8.1E+01	Ni	4.1E+01
Cd	5.5E-01	Pb	
Co	1.1E+01	Se	5.9E+00
Cr	1.5E+00	V	4.0E+00
Cu	6.1E+00	U	2.0E+01
Hg	2.0E-01	Zn	4.2E+01
Mn	.....	

San Jose/Lava Flow 11- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3--...	1.8E+02	3.0E+00	Na...	9.8E+01	4.3E+00
CO3--...	0.0E+00	0.0E+00	K...	1.2E+01	3.0E-01
SO4--...	3.1E+02	6.4E+00	Ca...	8.2E+01	4.1E+00
PO4--...	1.5E-02	4.7E-04	Mg...	2.6E+01	2.1E+00
NO2-....	3.1E-01	6.7E-03	NH3..		
NO3-.....	5.5E-01	8.9E-03			
NOx.....					
Cl-.....	1.2E+02	3.5E+00			
Total Anions.....		1.3E+01	Total Cations.		1.1E+01
% Difference.....		17.29%			

General Conditions

pH (field)..... 7.8E+00
T(C) (field)..... 2.2E+01
Conductivity..... 9.5E+02
Kjeldahl N.....
Sediment..... 2.1E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Averages for San Jose/Lava Flow

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.2E+02	Na...	1.2E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	8.1E+00
SO ₄ ⁻⁻ ...	2.9E+02	Ca...	6.4E+01
PO ₄ ⁻⁻ ...	2.9E+00	Mg...	3.4E+01
NO ₂ ⁻	3.3E-01	NH ₃ ..	1.1E-01
NO ₃ ⁻	7.0E-01		
NOx.....	1.1E+00		
Cl ⁻	1.0E+02		
Total Anions.....	1.1E+01	Total Cations.	1.2E+01
% Difference.....	27.44%		

General Conditions

pH (field).....	7.5E+00
T(C) (field).....	1.5E+01
Conductivity.....	1.0E+03
Kjeldahl N.....	5.5E+00
Sediment.....	1.3E+02
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	7.5E+00	Mo.....	5.7E+01
Ba.....	6.4E+01	Ni.....	4.4E+01
Cd.....	5.6E+00	Pb.....	1.8E+01
Co.....	1.6E+01	Se.....	6.3E+00
Cr.....	2.4E+00	V.....	4.3E+01
Cu.....	9.3E+00	U.....	8.5E+01
Hg.....	3.4E-01	Zn.....	4.3E+01
Mn.....	8.9E+01		

Standard Deviations for San Jose/Lava Flow

Anion	ppm	Cation	ppm
HCO3-...	3.3E+01	Na...	4.3E+01
CO3--...	0.0E+00	K....	2.2E+00
SO4--...	7.4E+01	Ca...	3.4E+01
PO4---...	2.5E+00	Mg...	1.2E+01
NO2-....	6.2E-01	NH3..	
NO3-.....	5.4E-01		
NOx.....	2.7E+01		
Cl-.....	4.7E+01		
Total Anions.....	8.4E+00	Total Cations.	7.8E+00
% Difference.....	47.38%		

General Conditions

pH (field).....	1.5E+01
T(C) (field).....	2.3E+01
Conductivity.....	7.0E+02
Kjeldahl N.....	1.9E+01
Sediment.....	1.7E+02
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	1.0E+01	Mo.....	7.8E+01
Ba.....	5.2E+01	Ni.....	3.7E+01
Cd.....	1.2E+01	Pb.....	3.3E+01
Co.....	1.7E+01	Se.....	1.1E+01
Cr.....	6.0E+00	V.....	4.6E+01
Cu.....	9.8E+00	U.....	9.7E+01
Hg.....	4.2E+00	Zn.....	6.4E+01
Mn.....	1.0E+02		

San Jose/Lava Flow D 1- 0-79 0

Metals Analysis

As.....	5.0E+00	Co.....	1.2E+01
Ba.....	4.6E+01	Ni.....	1.1E+01
Cd.....	1.2E+00	Pb.....	1.6E+01
Co.....		Se.....	3.0E+00
Cr.....	8.3E+00	V.....	2.9E+01
Cu.....	6.7E+00	U.....	
Hg.....	8.0E-01	Zn.....	
Mn.....	1.8E+02		

San Jose/Lava Flow D 3- 0-79 0

Metals Analysis

As.....	6.0E+00	Mo.....	2.3E+00
Ba.....	6.7E+01	Ni.....	8.1E+00
Cd.....	2.1E-01	Pb.....	1.0E+01
Co.....	5.8E+00	Se.....	3.0E+00
Cr.....	4.1E+00	V.....	0.0E+00
Cu.....	3.2E+01	U.....	
Hg.....	1.0E+00	Zn.....	
Mn.....	4.0E+01		

San Jose/Lava Flow D 6- 0-79 0

Metals Analysis

As.....	7.0E+00	Mo.....	9.9E+00
Ba.....	1.0E+01	Ni.....	8.2E+00
Cd.....	0.0E+00	Pb.....	8.3E+00
Co.....	2.0E+01	Se.....	5.0E+00
Cr.....	3.2E+00	V.....	1.2E+01
Cu.....	2.6E+01	U.....	
Hg.....	3.0E-01	Zn.....	
Mn.....	5.5E+01		

San Jose/Lava Flow D 11- 0-79 0

Metals Analysis

As.....	5.0E+00	Mo.....	2.4E+03
Ba.....		Ni.....	
Cd.....	4.8E+00	Pb.....	9.0E+00
Co.....	1.1E+01	Se.....	2.2E+00
Cr.....	7.0E+00	V.....	4.0E+01
Cu.....	4.7E+00	U.....	9.0E+01
Hg.....	2.5E+00	Zn.....	2.0E+01
Mn.....	8.5E+01		

San Jose/Leva Flow L 1- 0-80 0

Metals Analysis

As.....	3.0E+02	Mo.....	5.0E+00
Ba.....	4.6E+00	Ni.....	1.7E+01
Cd.....	1.3E+01	Pt.....	8.9E+00
Co.....	0.0E+00	Se.....	3.0E+00
Cr.....	2.5E+00	V.....	1.7E+03
Cu.....	6.4E+01	U.....	2.3E+02
Hg.....	6.9E+00	Zn.....	
Mn.....	4.4E+01		

San Jose/Lava Flow D 4- 0-80 0

Metals Analysis

As.....	7.8E+00	Mo.....
Ba.....	1.2E+02	Ni.....
Cd.....	2.1E-01	Pb.....
Co.....	1.1E+01	Se.....
Cr.....	8.1E+01	V.....
Cu.....		U.....
Hg.....		Zn.....
Mn.....		

San Jose/Lava Flow D 9- 0-80 0

Metals Analysis

As.....	4.1E+00	Mo.....	
Ba.....	9.8E+01	Ni.....	
Cd.....		Pb.....	3.7E+00
Co.....		Se.....	
Cr.....	2.3E+00	V.....	
Cu.....		U.....	
Hg.....	7.0E-01	Zn.....	
Mn.....			

Averages for San Jose/Lava Flow D

Metals Analysis

As.....	4.8E+01	Mo.....	4.9E+02
Ba.....	5.8E+01	Ni.....	1.1E+01
Cd.....	3.2E+00	Pb.....	7.9E+00
Co.....	9.3E+00	Se.....	3.2E+00
Cr.....	1.5E+01	V.....	3.6E+02
Cu.....	2.7E+01	U.....	1.6E+02
Hg.....	2.0E+00	Zn.....	2.0E+01
Mn.....	8.2E+01		

Standard Deviations for San Jose/Lava Flow D

Metals Analysis

As.....	1.1E+02	Mo.....	1.1E+03
Ba.....	5.6E+01	Ni.....	2.1E+01
Cd.....	7.8E+00	Pb.....	9.8E+00
Co.....	1.5E+01	Se.....	9.4E+00
Cr.....	2.9E+01	V.....	8.0E+02
Cu.....	3.5E+01	U.....	3.9E+02
Hg.....	5.9E+00	Zn.....	
Mn.....	8.9E+01		

San Jose/Laguna 1-15-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.6E+02	4.2E+00	Na...	2.8E+02	1.2E+01
CO ₃ ⁻⁻ ...			K....	9.1E+00	2.3E-01
SO ₄ ⁻⁻ ...	6.7E+02	1.4E+01	Ca...	1.4E+02	6.9E+00
PO ₄ ⁻⁻⁻ ...	2.7E+00	8.6E-02	Mg...	6.8E+01	5.6E+00
NO ₂ ⁻	1.4E-01	3.0E-03	NH ₃ ..		
NO ₃ ⁻	6.0E-01	9.7E-03			
NO _x	7.5E-01				
Cl ⁻	1.7E+02	4.7E+00			
Total Anions.....		2.3E+01	Total Cations..		2.5E+01
% Difference.....		7.78%			

General Conditions

pH (field).....	8.3E+00
T(C) (field).....	4.0E+00
Conductivity.....	1.4E+03
Kjeldahl N.....	3.2E+00
Sediment.....	8.6E+02
Total Dissolved Solids...	
Alpha Count.....	5.0E+00

Metals Analysis

As.....	3.0E+00	Mo.....	1.6E+01
Ba.....	5.2E+01	Ni.....	
Cd.....	4.9E+00	Pb.....	1.4E+00
Co.....	3.9E+01	Se.....	8.0E+00
Cr.....	4.3E-01	V.....	4.4E+01
Cu.....	1.7E+01	U.....	1.0E+01
Hg.....	3.0E-01	Zn.....	
Mn.....	3.0E+01		

San Jose/Laguna 3-19-79 C

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	2.7E+02	4.5E+00	Na	2.5E+02	1.1E+01
CO3--	0.0E+00	0.0E+00	K	8.8E+00	2.3E-01
SO4--	7.3E+02	1.5E+01	Ca	1.1E+02	5.2E+00
PO4--	2.7E+00	8.5E-02	Mg	7.3E+01	6.0E+00
NO2-	1.0E-02	2.2E-04	NH3		
NO3-	1.6E-02	1.6E-04			
NOx					
Cl-					
Total Anions		2.0E+01	Total Cations		2.2E+01
% Difference		12.16%			

General Conditions

pH (field)	7.6E+00
T(C) (field)	1.1E+01
Conductivity	1.6E+03
Kjeldahl N	
Sediment	3.3E+02
Total Dissolved Solids	
Alpha Count	1.5E+01

Metals Analysis

As	1.2E+01	Mo	4.8E+00
Ba	4.7E+01	Ni	7.3E+01
Cd	2.1E+01	Pb	1.1E+01
Co	3.7E+01	Se	
Cr	1.2E+00	V	6.0E+00
Cu	2.0E+01	U	7.0E+01
Hg	1.0E-01	Zn	
Mn	1.5E+02		

San Jose/Laguna , 1-18-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	2.9E+02	4.7E+00	Na	2.8E+02	1.2E+01
CO3--	0.0E+00	0.0E+00	K	1.1E+01	2.7E-01
SO4--	6.8E+02	1.4E+01	Ca	1.1E+02	5.3E+00
PO4--			Hg	6.9E+01	5.7E+00
NO2-	1.0E-02	2.2E-04	PH3		
NO3-	2.0E-02	3.2E-04			
NOx					
Cl-	1.5E+02	4.1E+00			
Total Anions		2.3E+01	Total Cations		2.4E+01
% Difference		2.73%			

General Conditions

pH (field)	7.5E+00
T(C) (field)	6.0E+00
Conductivity	1.8E+03
Kjeldahl N	3.9E-01
Sediment	1.8E-01
Total Dissolved Solids	
Alpha Count	

Metals Analysis

As	3.0E+00	Mo	
Ba	3.6E+01	Ni	7.1E+01
Cd	1.4E+01	Pb	5.0E+00
Co	3.5E+01	Se	4.0E+00
Cr	2.0E+00	V	9.4E+01
Cu	1.8E+01	U	3.5E+01
Hg	3.0E-01	Zn	1.0E+01
Mn	2.4E+02		

San Jose/Laguna 4-21-80 0

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HCO3-...	3.2E+02	5.3E+00	Na...	3.4E+02	1.5E+01
CO3--...	8.3E+00	2.8E-01	K....	7.6E+00	1.9E-01
SO4--...	7.5E+02	1.6E+01	Ca...	1.2E+02	5.9E+00
PO4---...			Mg...	8.4E+01	6.9E+00
NO2-....	1.0E-02	2.2E-04	NH3..		
NO3-....	2.0E-02	3.2E-04			
NOx.....					
Cl-.....	2.0E+02	5.7E+00			
Total Anions.....		2.7E+01	Total Cations.		2.8E+01
% Difference.....		4.09%			

General Conditions

pH (field).....	8.7E+00
T(C) (field).....	1.9E+01
Conductivity.....	2.4E+03
Kjeldahl N.....	
Sediment.....	6.5E+01
Total Dissolved Solids...	1.7E+03
Alpha Count.....	1.6E+01

Metals Analysis

As.....	3.0E+00	Mo.....	2.0E+01
Ba.....	9.2E+01	Ni.....	7.1E+01
Cd.....	9.9E-01	Pb.....	1.2E+01
Co.....		Se.....	7.0E+00
Cr.....	1.6E+01	V.....	1.0E+02
Cu.....	1.3E+01	U.....	1.5E+02
Hg.....	1.2E+00	Zn.....	1.1E+02
Mn.....			

San Jose/Laguna 9- 9-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻			Na....		
CO ₃ ⁼			K....		
SO ₄ ⁼			Ca....		
PO ₄ ⁼			Mg....		
NO ₂ ⁻			NH ₃ ..		
NO ₃ ⁻					
NO _x					
Cl ⁻					
Total Anions.....			Total Cations.		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Ag.....	1.1E+01
Ba.....	8.1E+01	Ni.....	3.3E+01
Cd.....	2.4E-01	Pb.....	3.3E-01
Co.....	1.1E+01	Se.....	4.5E+00
Cr.....	1.4E+00	V.....	5.9E+01
Cu.....	3.2E+00	U.....	2.0E+01
Hg.....	1.5E-01	Zn.....	5.4E+01
Mn.....			

San Jose/Laguna 11- 0-80 0

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HCO3-...			Na...	6.7E+01	2.9E+00
CO3--...	0.0E+00	0.0E+00	K...	1.1E+01	2.8E-01
SO4--...	3.1E+02	6.5E+00	Ca...	8.0E+01	4.0E+00
PO4--...	1.8E-02	5.7E-04	Mg...	2.1E+01	1.7E+00
NO2-....	1.3E-01	2.7E-03	NH3..		
NO3-.....	3.9E-01	6.3E-03			
NOx.....					
Cl-.....	3.7E+01	1.0E+00			
Total Anions.....		7.5E+00	Total Cations..		8.9E+00
% Difference.....		17.30%			

General Conditions

pH (field).....	8.3E+00
T(C) (field).....	2.3E+01
Conductivity.....	
Kjeldahl N.....	
Sediment.....	2.5E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Averages for San Jose/Laguna

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.9E+02	Na...	2.4E+02
CO ₃ ⁻⁻ ...	2.1E+00	K....	9.4E+00
SO ₄ ⁻⁻ ...	6.3E+02	Ca...	1.1E+02
PO ₄ ⁻⁻⁻ ...	1.8E+00	Mg...	6.3E+01
NO ₂ ⁻	5.9E-02	NH ₃ ..	
NO ₃ ⁻	2.1E-01		
NO _x	7.5E-01		
Cl ⁻	1.4E+02		
Total Anions.....	2.0E+01	Total Cations.	2.2E+01
% Difference.....	3.39%		

General Conditions

pH (field).....	8.1E+00
T(C) (field).....	1.3E+01
Conductivity.....	1.8E+03
Kjeldahl N.....	1.8E+00
Sediment.....	7.5E+02
Total Dissolved Solids...	1.7E+03
Alpha Count.....	1.2E+01

Metals Analysis

As.....	4.8E+00	Mo.....	1.3E+01
Ba.....	6.2E+01	Ni.....	6.2E+01
Cd.....	8.2E+00	Pb.....	5.8E+00
Co.....	3.0E+01	Se.....	5.9E+00
Cr.....	4.2E+00	V.....	6.0E+01
Cu.....	1.4E+01	U.....	5.7E+01
Hg.....	4.1E-01	Zn.....	5.8E+01
Mn.....	1.4E+02		

Standard Deviations for San Jose/Laguna

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.8E+01	Na...	1.1E+02
CO ₃ ⁻⁻ ...	4.1E+00	K....	1.3E+00
SO ₄ ⁻⁻ ...	1.8E+02	Ca...	2.1E+01
PO ₄ ⁻⁻⁻ ..	1.6E+00	Mg...	2.4E+01
NO ₂ ⁻	6.8E-02	NH ₃ ..	
NO ₃ ⁻	2.7E-01		
NOx.....			
Cl ⁻	7.2E+01		
Total Anions.....	1.2E+01	Total Cations..	1.3E+01
% Difference.....	5.02%		

General Conditions

pH (field).....	9.1E+00
T(C) (field).....	1.4E+01
Conductivity.....	1.5E+03
Kjeldahl N.....	2.4E+01
Sediment.....	1.1E+03
Total Dissolved Solids...	
Alpha Count.....	2.8E+01

Metals Analysis

As.....	8.4E+00	Mo.....	2.0E+01
Ba.....	4.3E+01	Ni.....	6.2E+01
Cd.....	1.3E+01	Pb.....	9.5E+00
Co.....	3.5E+01	Se.....	1.3E+01
Cr.....	9.7E+00	V.....	5.4E+01
Cu.....	1.4E+01	U.....	6.6E+01
Hg.....	5.2E+00	Zn.....	9.7E+01
Mn.....	2.1E+02		

San Jose/Laguna Div 1- 0-79 0

Metals Analysis

As.....	7.0E+00	Mo.....	6.4E+00
Ba.....	7.1E+01	Ni.....	2.0E+01
Cd.....	2.7E+00	Pb.....	1.8E+01
Co.....		Se.....	2.0E+00
Cr.....	1.2E+01	V.....	5.0E+01
Cu.....	1.0E+01	U.....	1.0E+01
Hg.....	9.0E-01	Zn.....	
Mn.....	1.5E+02		

San Jose/Laguna Dig 3- 0-79 0

Metals Analysis

As.....	9.0E+00	Mo.....	3.2E+00
Ba.....	5.1E+01	Ni.....	7.6E+00
Cd.....	1.8E+00	Pb.....	1.1E+01
Co.....	2.0E+01	Se.....	2.0E+00
Cr.....	4.6E+00	V.....	0.0E+00
Cu.....	2.3E+01	U.....	
Hg.....	5.0E-01	Zn.....	
Mn.....	3.0E+01		

San Jose/Laguna Dig 11- 0-79 0

Metals Analysis

As.....		Mo.....
Ba.....		Ni.....
Cd.....	3.9E+01	Pb.....
Co.....		Se.....
Cr.....		V.....
Cu.....		U.....
Hg.....		Zn.....
Mn.....		

San Jose/Laguna Dig 1- 0-80 0

Metals Analysis

As.....	1.2E+01	Mo.....	6.0E+00
Ba.....	7.9E+00	Ni.....	3.8E+01
Cd.....	1.8E+01	Pb.....	7.1E+00
Co.....	5.4E+00	Se.....	2.0E+00
Cr.....	1.9E+00	V.....	1.8E+02
Cu.....	4.6E+01	U.....	
Hg.....	6.0E-01	Zn.....	
Mn.....	8.4E+03		

San Jose/Laguna Dig 4- 0-80 0

Metals Analysis

As.....	1.3E+01	Mo.....	1.0E+02
Ba.....	7.9E+01	Ni.....	4.1E+01
Cd.....	5.0E-02	Pb.....	
Co.....	2.0E+01	Se.....	3.0E+00
Cr.....	7.4E+01	V.....	4.3E+01
Cu.....	2.4E+01	U.....	1.9E+02
Hg.....	8.0E-01	Zn.....	
Mn.....			

San Jose/Laguna Dig 9- 0-80 0

Metals Analysis

As.....	9.4E+00	Mo.....	3.7E+02
Ba.....	1.2E+02	Ni.....	4.9E+01
Cd.....	3.2E+00	Pb.....	1.3E+01
Co.....	1.2E+01	Se.....	5.5E+00
Cr.....	4.3E+00	V.....	2.8E+02
Cu.....		U.....	1.6E+02
Hg.....	1.1E+00	Zn.....	
Mn.....			

Averages for San Jose/Laguna Dig

Metals Analysis

As.....	1.0E+01	Mo.....	9.8E+01
Ba.....	6.6E+01	Ni.....	3.1E+01
Cd.....	1.1E+01	Pb.....	1.2E+01
Co.....	1.5E+01	Se.....	2.9E+00
Cr.....	1.9E+01	V.....	1.1E+02
Cu.....	2.6E+01	U.....	1.2E+02
Hg.....	7.8E-01	Zn.....	
Mn.....	2.9E+03		

Standard Deviations for San Jose/LaGuna Dig

Metals Analysis

As.....	1.0E+01	Mo.....	1.7E+02
Ba.....	5.6E+01	Ni.....	2.6E+01
Cd.....	1.5E+01	Pb.....	1.9E+01
Co.....	2.1E+01	Se.....	6.6E+00
Cr.....	3.4E+01	V.....	1.3E+02
Cu.....	3.3E+01	U.....	1.9E+02
Hg.....	5.4E+00	Zn.....	
Mn.....	6.0E+03		

San Jose/Hwy 6 1-15-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.7E+02	4.5E+00	Na...	2.7E+02	1.2E+01
CO ₃ ⁻⁻ ...			K....	8.8E+00	2.3E-01
SO ₄ ⁻⁻ ...	6.5E+02	1.3E+01	Ca...	1.2E+02	6.1E+00
PO ₄ ⁻⁻⁻ ...	3.4E+00	1.1E-01	Mg...	6.1E+01	5.0E+00
NO ₂ ⁻	4.0E-02	8.7E-04	NH ₃ ..		
NO ₃ ⁻	6.0E-01	9.7E-03			
NO _x	6.4E-01				
Cl ⁻	1.6E+02	4.4E+00			
Total Anions.....		2.3E+01	Total Cations.		2.3E+01
% Difference.....		1.73%			

General Conditions

pH (field)..... 8.1E+00
T(C) (field)..... 5.0E-01
Conductivity..... 1.2E+03
Kjeldahl N..... 7.5E+00
Sediment..... 3.4E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Mo.....	1.3E+01
Ba.....	4.6E+01	Ni.....	
Cd.....	9.0E+00	Pb.....	2.0E+00
Co.....	1.4E+01	Se.....	6.0E+00
Cr.....	1.4E-01	V.....	4.3E+01
Cu.....	1.2E+01	U.....	
Hg.....	2.0E-01	Zn.....	
Mn.....	2.3E+00		

San Jose/Hwy 6 3-19-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.4E+02	3.9E+00	Na...	2.9E+02	1.3E+01
CO3--...	0.0E+00	0.0E+00	K....	8.5E+00	2.2E-01
SO4--...	7.5E+02	1.6E+01	Ca...	1.3E+02	6.2E+00
PO4---...	6.5E-01	2.1E-02	Mg...	7.3E+01	6.0E+00
NO2-....	1.0E-02	2.2E-04	NH3..	1.0E-02	
NO3-....	1.0E-02	1.6E-04			
NOx.....					
Cl-.....					
Total Anions.....		1.9E+01	Total Cations..		2.5E+01
% Difference.....		25.81%			

General Conditions

pH (field)..... 8.3E+00
T(C) (field)..... 9.0E+00
Conductivity..... 1.5E+03
Kjeldahl N..... 1.0E+00
Sediment..... 7.1E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....		Mo.....	
Ba.....		Ni.....	
Cd.....		Pb.....	
Co.....		Se.....	
Cr.....		V.....	
Cu.....		U.....	
Hg.....	1.0E-01	Zn.....	
Mn.....			

San Jose/Hwy 6 1-18-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	3.1E+02	5.0E+00	Na	3.0E+02	1.3E+01
CO3--	0.0E+00	0.0E+00	K	1.0E+01	2.0E-01
SO4--	6.9E+02	1.4E+01	Ca	1.1E+02	5.7E+00
PO4---			Mg	6.8E+01	5.6E+00
NO2-	1.0E-02	2.2E-04	HR3		
NO3-	0.0E+00	0.0E+00			
NOx					
Cl-	1.7E+02	4.7E+00			
Total Anions		2.4E+01	Total Cations		2.5E+01
% Difference		2.03%			

General Conditions

pH (field)..... 7.5E+00
T(C) (field)..... 4.0E+00
Conductivity..... 1.8E+03
Kjeldahl N..... 2.2E+00
Sediment..... 3.1E-01
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	7.0E+00	Mo	1.0E+01
Ba	3.9E+01	Ni	8.1E+01
Cd	1.5E+01	Pb	4.5E+00
Co	3.7E+01	Se	4.0E+00
Cr	1.6E+00	V	8.8E+01
Cu	2.3E+01	U	4.8E+01
Hg	2.0E-01	Zn	0.0E+00
Mn			

San Jose/Hwy 6 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.8E+02	4.6E+00	Na...	3.6E+02	1.6E+01
CO3--...	8.3E+00	2.8E-01	K...	7.9E+00	2.0E-01
SO4--...	8.0E+02	1.7E+01	Ca...	9.8E+01	4.9E+00
PO4---...			Mg...	8.7E+01	7.2E+00
NO2-....	0.0E+00	0.0E+00	NH3..		
NO3-.....	3.0E-02	4.8E-04			
NOx.....					
Cl-.....	2.1E+02	6.0E+00			
Total Anions.....		2.8E+01	Total Cations.		2.8E+01
% Difference.....		1.34%			

General Conditions

pH (field)..... 8.6E+00
T(C) (field)..... 1.6E+01
Conductivity..... 2.3E+03
Kjeldahl N.....
Sediment..... 3.3E-01
Total Dissolved Solids... 1.5E+03
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Mo.....	7.5E+01
Ba.....	1.2E+02	Ni.....	5.3E+01
Cd.....	2.0E+00	Pb.....	1.4E+01
Co.....		Se.....	6.5E+00
Cr.....	1.5E+00	V.....	
Cu.....	1.3E+01	U.....	3.0E+01
Hg.....	1.2E-01	Zn.....	1.6E+02
Mn.....			

San Jose/Hwy 6

9- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NO3	...	
NO3-	...				
NOX	...				
Cl-	...				
Total Anions		Total Cations	.....
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	3.0E+00	Mo	2.4E+01
Ba	1.2E+02	Ni	1.3E+01
Cd	1.4E-01	Pb	3.7E-01
Co	5.5E+00	Se	2.1E+00
Cr	2.5E+00	V	1.6E+01
Cu	2.4E+00	U	1.3E+02
Hg	2.0E-01	Zn	.....
Mn	.....	

San Jose/Hwy 6 11- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	1.5E+02	2.5E+00	Na...	5.1E+01	2.2E+00
CO3--...	0.0E+00	0.0E+00	K....	4.9E+00	1.3E-01
SO4--...	9.6E+01	2.0E+00	Ca...	3.1E+01	1.6E+00
PO4---...	3.6E-02	1.1E-03	Mg...	6.0E+00	4.9E-01
NO2-....	4.3E-02	9.3E-04	NH3..		
NO3-....	2.2E-01	3.5E-03			
NOx.....					
Cl-.....	1.2E+01	3.5E-01			
Total Anions.....		4.8E+00	Total Cations..		4.4E+00
% Difference.....		9.74%			

General Conditions

pH (field)..... 7.5E+00
T(C) (field)..... 1.8E+01
Conductivity..... 3.8E+02
Kjeldahl N.....
Sediment..... 4.8E+03
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	H.....
Hg.....	Zn.....
Mn.....	

Averages for San Jose/Key 6

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	2.5E+02	Na...	2.5E+02
CO ₃ ⁼ ...	2.1E+00	K....	8.1E+00
SO ₄ ⁼ ...	6.0E+02	Ca...	9.8E+01
PO ₄ ⁼ ...	1.3E+00	Mg...	5.9E+01
NO ₂ ⁼	2.1E-02	NH ₃ ..	1.0E-02
NO ₃ ⁼	1.7E-01		
NOx.....	6.4E-01		
Cl ⁻	1.4E+02		
Total Anions.....	2.0E+01	Total Cations..	2.1E+01
% Difference.....	0.95%		

General Conditions

pH (field).....	8.0E+00
T(C) (field).....	9.5E+00
Conductivity.....	1.4E+03
Kjeldahl N.....	3.6E+00
Sediment.....	1.2E+03
Total Dissolved Solids...	1.5E+03
Alpha Count.....	

Metals Analysis

As.....	4.0E+00	Po.....	3.1E+01
Ba.....	8.0E+01	Ni.....	4.9E+01
Cd.....	6.6E+00	Pb.....	5.2E+00
Co.....	1.9E+01	Se.....	4.6E+00
Cr.....	1.4E+00	V.....	4.9E+01
Cu.....	1.3E+01	U.....	6.9E+01
Hg.....	1.6E-01	Zn.....	8.0E+01
Mn.....	2.3E+00		

Standard Deviations for San Jose/Hwy 6

Anion	ppm	Cation	ppm
HC03-...	6.0E+01	Na...	1.2E+02
CO3--...	4.1E+00	K....	2.0E+00
SO4--...	2.9E+02	Ca...	3.9E+01
PO4---...	1.8E+00	Mg...	3.1E+01
NO2-....	2.0E-02	NH3..	
NO3-....	2.6E-01		
NOx.....			
Cl-.....	8.6E+01		
Total Anions.....	1.3E+01	Total Cations.	1.4E+01
% Difference.....	-4.08%		

General Conditions

pH (field).....	9.0E+00
T(C) (field).....	1.2E+01
Conductivity.....	1.0E+03
Kjeldahl N.....	1.7E+01
Sediment.....	2.2E+03
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	1.2E+01	Mo.....	4.5E+01
Ba.....	8.5E+01	Ni.....	8.0E+01
Cd.....	1.5E+01	Pb.....	1.4E+01
Co.....	3.9E+01	Se.....	1.2E+01
Cr.....	9.4E+00	V.....	8.1E+01
Cu.....	2.0E+01	U.....	1.1E+02
Hg.....	5.1E+00	Zn.....	2.1E+02
Mn.....			

San Jose/Hwy 6 Dig 1- 0-79 0

Metals Analysis

As.....	7.0E+00	Mo.....	
Ba.....	9.7E+01	Ni.....	1.4E+01
Cd.....	3.0E+00	Pb.....	2.7E+01
Co.....		Se.....	2.0E+00
Cr.....	1.4E+01	V.....	5.3E+01
Cu.....	2.7E+01	U.....	
Hg.....	7.0E+01	Zn.....	
Mn.....	1.8E+02		

San Jose/Hwy 6 Dig 3- 0-79 0

Metals Analysis

As.....	1.4E+01	Mo.....	5.1E+00
Ba.....	6.6E+01	Ni.....	1.3E+01
Cd.....	5.8E-01	Pb.....	9.1E+00
Co.....	2.9E+01	Se.....	3.0E+00
Cr.....	1.5E+01	V.....	4.4E+00
Cu.....	2.5E+01	U.....	
Hg.....	1.3E+00	Zn.....	
Mn.....	6.0E+01		

San Jose/Hwy 6 Dig 11- 0-79 0

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd..... 0.0E+00	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

San Jose/Hwy 6 Dig 1- 0-80 0

Metals Analysis

As.....	1.3E+01	Mo.....	1.2E+01
Ba.....	7.9E+00	Ni.....	4.1E+01
Cd.....	4.9E+00	Pb.....	7.4E+00
Co.....	4.5E+00	Se.....	2.0E+00
Cr.....	3.1E+00	V.....	6.4E+01
Cu.....	2.4E+01	U.....	1.3E+02
Hg.....	1.1E+00	Zn.....	
Mn.....	1.1E+04		

San Jose/Hwy 6 Dig 4- 0-80 0

Metals Analysis

As.....	1.6E+01	Mo.....	4.7E+01
Ba.....	1.1E+02	Ni.....	6.6E+01
Cd.....	0.0E+00	Pb.....	6.6E+00
Co.....	2.3E+01	Se.....	3.0E+00
Cr.....	1.8E+01	V.....	2.0E+02
Cu.....	1.1E+01	U.....	2.4E+02
Hg.....	2.0E+01	Zn.....	
Mn.....			

San Jose/Hwy 6 Dig 9- 0-80 0

Metals Analysis

As.....	3.2E+01	Mo.....	1.4E+01
Ba.....	1.2E+03	Ni.....	4.4E+02
Cd.....	3.6E+00	Pb.....	5.2E+02
Co.....	2.9E+01	Se.....	2.7E+00
Cr.....	2.9E+00	V.....	4.0E+02
Cu.....		U.....	1.7E+02
Hg.....	1.1E+00	Zn.....	
Mn.....			

Averages for San Jose/Hwy 6 Dig

Metals Analysis

As.....	1.6E+01	Mo.....	2.0E+01
Ba.....	3.0E+02	Ni.....	1.1E+02
Cd.....	2.0E+00	Pb.....	1.1E+02
Co.....	2.1E+01	Se.....	2.5E+00
Cr.....	1.1E+01	V.....	1.4E+02
Cu.....	2.2E+01	U.....	1.8E+02
Hg.....	8.8E-01	Zn.....	
Mn.....	3.7E+03		

Standard Deviations for San Jose/Ewy 5 Dig

Metals Analysis

As.....	1.6E+01	Mo.....	3.1E+01
Ba.....	5.3E+02	Ni.....	1.9E+02
Cd.....	2.1E+00	Pb.....	2.4E+02
Co.....	2.8E+01	Se.....	6.3E+00
Cr.....	1.3E+01	V.....	1.8E+02
Cu.....	2.7E+01	U.....	2.4E+02
Hg.....	5.5E+00	Zn.....	
Mn.....	7.8E+03		

Rio Puerco/Hwy 66 4- 0-70 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	..	
NO3-	...				
NOx	...				
Cl-	...				
Total Anions		Total Cations	.	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	3.0E+00	Mo	2.8E+02
Ba	1.1E+02	Ni	1.2E+02
Cd	5.4E-01	Pb	1.0E+01
Co		Se	6.0E+00
Cr	2.3E+00	V	6.7E+02
Cu	1.8E+01	U	1.0E+02
Hg	1.0E-01	Zn	8.0E+01
Mn	.....	

Rio Puerco/Hwy 66 3-19-79 0

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HC03-...	1.5E+02	2.5E+00	Na...	1.6E+02	6.9E+00
CO3--...			K...	4.8E+00	1.2E-01
SO4--...	5.9E+02	1.2E+01	Ca...	8.6E+01	4.3E+00
PO4---...	7.0E-01	2.2E-02	Mg...	1.8E+01	1.5E+00
NO2-.....	1.0E-02	2.2E-04	NH3..	2.7E-01	
NO3-.....	1.0E-02	1.6E-04			
NOx.....					
Cl-.....					
Total Anions.....		1.5E+01	Total Cations.		1.3E+01
% Difference.....		15.14%			

General Conditions

pH (field)..... 7.4E+00
T(C) (field)..... 8.5E+00
Conductivity..... 9.8E+02
Kjeldahl N..... 1.0E+00
Sediment..... 5.8E+02
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	5.0E+00	Mo.....	4.8E+00
Ba.....	3.7E+01	Ni.....	2.6E+01
Cd.....	7.6E+00	Pb.....	2.5E+00
Co.....	1.8E+01	Se.....	
Cr.....	1.7E+00	V.....	3.2E+01
Cu.....	1.6E+01	U.....	5.5E+01
Hg.....	1.8E+00	Zn.....	
Mn.....	1.9E+01		

Rio Puerco/Hwy 66 6- 7-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	8.8E+01	1.1E+00	Na...	2.1E+02	8.9E+00
CO3--...			K....	6.0E+00	1.5E-01
SO4--...	9.0E+02	1.9E+01	Ca...	1.6E+02	7.9E+00
PO4---...	4.7E+00	1.5E-01	Mg...	3.2E+01	2.6E+00
NO2-.....	1.0E-02	2.2E-04	MN3..		
NO3-.....					
NOx.....					
Cl-.....	2.0E+01	5.6E-01			
Total Anions.....		2.1E+01	Total Cations.		2.0E+01
% Difference.....		-5.07%			

General Conditions

pH (field).....	6.8E+00
T(C) (field).....	1.9E+01
Conductivity.....	
Kjeldahl N.....	2.6E+00
Sediment.....	7.2E+00
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.0E+00	Mo.....	7.6E+00
Ba.....	5.1E+01	Ni.....	1.8E+01
Cd.....	1.2E+00	Pb.....	5.1E-01
Co.....	2.2E+01	Se.....	5.0E+00
Cr.....	6.0E-01	V.....	1.2E+02
Cu.....	1.7E+01	U.....	5.7E+01
Hg.....	4.0E-01	Zn.....	
Mn.....	4.7E+00		

Rio Puerco/Hwy 66 11-12-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	1.9E+02	3.1E+00	Na	2.7E+02	1.2E+01
CO3--	0.0E+00	0.0E+00	K	6.6E+00	1.7E-01
SO4--	6.8E+02	1.4E+01	Ca	7.6E+01	3.8E+00
PO4---			Mg	1.8E+01	1.4E+00
NO2-	3.5E-02	7.6E-04	NH3		
NO3-	8.8E+00	1.4E-01			
NOX					
Cl-	2.6E+01	7.3E-01			
Total Anions		1.8E+01	Total Cations		1.7E+01
% Difference		5.78%			

General Conditions

pH (field)..... 6.9E+00
T(C) (field)..... 1.1E+01
Conductivity..... 1.2E+03
Kjeldahl N.....
Sediment..... 4.4E+00
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	3.0E+00	Pb	9.5E+01
Ba		Ni	5.7E+01
Cd	1.3E+00	Pb	1.3E+01
Co	3.3E+01	Se	7.0E+00
Cr	7.0E+00	V	1.2E+02
Cu	1.9E-01	U	6.3E+01
Hg	8.0E-01	Zn	2.0E+01
Mn	1.3E+01		

Rio Puerco/Hwy 66 1-12-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	1.7E+02	2.7E+00	Na...	2.7E+02	1.2E+01
CO3--...	0.0E+00	0.0E+00	K....	7.6E+00	1.9E-01
SO4--...	6.3E+02	1.3E+01	Ca...	7.1E+01	3.5E+00
PO4---..			Mg...	1.7E+01	1.4E+00
NO2-.....	1.0E-02	2.2E-04	NH3..		
NO3-.....	4.1E-01	6.6E-03			
NOX.....					
Cl-.....	2.8E+01	7.9E-01			
Total Anions.....		1.7E+01	Total Cations..		1.7E+01
% Difference.....		0.74%			

General Conditions

pH (field).....	7.2E+00
T(C) (field).....	6.0E+00
Conductivity.....	1.4E+03
Kjeldahl N.....	2.2E-01
Sediment.....	5.1E+04
Total Dissolved Solids...	1.1E+03
Alpha Count.....	

Metals Analysis

As.....	3.0E+00	Co.....	1.0E+01
Ba.....	3.6E+01	Ni.....	5.7E+01
Cd.....	2.8E+01	Pb.....	3.1E+00
Co.....	3.2E+01	Se.....	8.0E+00
Cr.....	3.7E+00	V.....	1.8E+02
Cu.....	2.7E+01	U.....	5.0E+01
Hg.....	5.0E-01	Zn.....	5.7E+01
Mn.....	2.1E+02		

Rio Puerco/Hwy 66 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3--...	2.7E+02	4.3E+00	Na...	4.4E+02	1.9E+01
CO3--...	0.0E+00	0.0E+00	K....	6.9E+00	1.8E-01
SO4--...	1.2E+03	2.5E+01	Ca...	1.6E+02	8.1E+00
PO4---..			Mg...	4.7E+01	3.9E+00
NO2-....	0.0E+00	0.0E+00	NH3..		
NO3-.....	7.8E-01	1.3E-02			
NOx.....					
Cl-.....	4.1E+01	1.2E+00			
Total Anions.....		3.0E+01	Total Cations.		3.1E+01
% Difference.....		2.58%			

General Conditions

pH (field).....	8.3E+00
T(C) (field).....	1.6E+01
Conductivity.....	2.5E+03
Kjeldahl N.....	
Sediment.....	3.7E+00
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	Mn.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 66 11- 6-80 C

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HCO3-...	1.6E+02	2.7E+00	Na...	2.4E+02	1.1E+01
CO3--...	0.0E+00	0.0E+00	K....	1.2E+01	3.1E-01
SO4--...	7.9E+01	1.6E+00	Ca...	1.4E+02	7.2E+00
PO4---...	1.2E-02	3.8E-04	Mg...	2.9E+01	2.4E+00
NO2-....	4.5E-02	9.8E-04	NH3..		
NO3-.....	1.6E+00	2.6E-02			
NOx.....					
Cl-.....	2.5E+01	6.9E-01			
Total Anions.....		5.0E+00	Total Cations..		2.0E+01
% Difference.....		120.74%			

General Conditions

pH (field).....	7.8E+00
T(C) (field).....	2.2E+01
Conductivity.....	1.8E+03
Kjeldahl N.....	
Sediment.....	6.1E+04
Total Dissolved Solids...	1.3E+03
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Averages for Rio Puerco/Hwy 66

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	1.7E+02	Na...	2.6E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	7.3E+00
SO ₄ ⁻⁻ ...	6.8E+02	Ca...	1.2E+02
PO ₄ ^{--~} ..	1.8E+00	Mg...	2.7E+01
NO ₂ ⁻	1.8E-02	NH ₃ ..	2.7E-01
NO ₃ ⁻	2.3E+00		
NOx.....			
Cl ⁻	2.8E+01		
Total Anions.....	1.8E+01	Total Cations.	2.0E+01
% Difference.....	7.90%		

General Conditions

pH (field).....	7.4E+00
T(C) (field).....	1.4E+01
Conductivity.....	1.6E+03
Kjeldahl N.....	1.3E+00
Sediment.....	4.4E+04
Total Dissolved Solids...	1.2E+03
Alpha Count.....	

Metals Analysis

As.....	3.4E+00	Mo.....	7.9E+01
Ba.....	5.9E+01	Ni.....	5.6E+01
Cd.....	7.8E+00	Pb.....	5.9E+00
Co.....	2.6E+01	Se.....	6.5E+00
Cr.....	3.1E+00	V.....	2.3E+02
Cu.....	1.6E+01	U.....	6.5E+01
Hg.....	7.2E-01	Zn.....	5.2E+01
Mn.....	6.3E+01		

Standard Deviations for Rio Puerco/Hwy 66

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	6.3E+01	Na...	9.6E+01
CO ₃ ⁻⁻ ...	0.0E+00	K...	2.5E+00
SO ₄ ⁻⁻ ...	3.7E+02	Ca...	4.3E+01
PO ₄ ⁻⁻⁻ ...	2.5E+00	Mg...	1.2E+01
NO ₂ ⁻	1.8E-02	NH ₃ ..	
NO ₃ ⁻	3.7E+00		
NOx.....			
Cl ⁻	7.9E+00		
Total Anions.....	1.1E+01	Total Cations.	1.1E+01
% Difference.....	26.81%		

General Conditions

pH (field).....	7.8E+00
T(C) (field).....	1.2E+01
Conductivity.....	1.3E+03
Kjeldahl N.....	1.6E+01
Sediment.....	3.2E+00
Total Dissolved Solids...	2.7E+03
Alpha Count.....	

Metals Analysis

As.....	9.5E+00	Mo.....	1.3E+02
Ba.....	7.7E+01	Ni.....	6.2E+01
Cd.....	1.7E+01	Pb.....	1.3E+01
Co.....	3.7E+01	Se.....	1.7E+01
Cr.....	9.6E+00	V.....	3.0E+02
Cu.....	2.1E+01	U.....	5.7E+01
Hg.....	7.6E+00	Zn.....	9.3E+01
Mn.....	1.2E+02		

Rio Puerco/Hwy 66 D 3- 0-79 0

Metals Analysis

As.....	4.3E+03	Mo.....	7.8E+00
Ba.....	1.3E+03	Ni.....	1.1E+03
Cd.....	6.9E+00	Pb.....	1.3E+03
Co.....	1.0E+03	Se.....	1.4E+01
Cr.....	1.6E+03	V.....	1.9E+03
Cu.....	8.1E+02	U.....	
Hg.....	2.5E+00	Zn.....	
Mn.....	1.7E+04		

Rio Puerco/Hwy 66 D 6- 0-79 0

Metals Analysis

As.....	3.3E+03	Mo.....	1.2E+01
Ba.....	1.0E+01	Ni.....	1.0E+03
Cd.....	1.1E+01	Pb.....	1.3E+03
Co.....	1.0E+03	Se.....	2.2E+00
Cr.....	5.0E+02	V.....	1.2E+03
Cu.....	9.7E+02	H.....	
Hg.....	1.8E+00	Zn.....	
Mn.....	1.4E+04		

Rio Puerco/Hwy 66 D 11- 0-79 0

Metals Analysis

As.....	3.4E+01	Mo.....	1.2E+02
Ba.....	6.3E+01	Ni.....	
Cd.....	9.0E+00	Pb.....	5.7E+03
Co.....	7.3E+02	Se.....	9.5E+00
Cr.....	3.5E+03	V.....	6.4E+03
Cu.....	1.5E+03	U.....	2.2E+03
Hg.....	2.5E+00	Zn.....	
Mn.....	1.5E+03		

Rio Puerco/Hwy 56 D 1- 0-80 0

Metals Analysis

As.....	3.7E+02	Mo.....	1.3E+01
Ba.....	2.9E+04	Ni.....	1.3E+04
Cd.....	3.9E+01	Pb.....	2.6E+03
Co.....	3.9E+02	Se.....	4.0E+00
Cr.....	4.2E+03	V.....	1.1E+04
Cu.....	6.7E+03	U.....	3.2E+03
Hg.....	2.1E+00	Zn.....	2.6E+04
Mn.....	8.7E+04		

Rio Puerco/Hwy 66 D 4- 0-80 0

Metals Analysis

As.....	1.3E+03	Mo.....	6.9E+02
Ba.....	3.1E+02	Ni.....	1.5E+03
Cd.....	2.1E+00	Pb.....	3.0E+03
Co.....	2.9E+02	Se.....	4.0E+00
Cr.....	1.2E+03	V.....	6.1E+02
Cu.....	1.3E+04	U.....	2.5E+03
Hg.....	2.4E+00	Zn.....	
Mn.....			

Rio Puerco/Hwy 66 D 9- 0-80 0

Metals Analysis

As.....	1.2E+02	Mo.....	7.7E+01
Ba.....	1.3E+03	Ni.....	5.2E+02
Cd.....	2.4E+00	Pb.....	2.0E+02
Co.....	2.2E+02	Se.....	7.0E+00
Cr.....	8.7E+01	V.....	8.5E+02
Cu.....		U.....	4.2E+03
Hg.....	4.1E+00	Zn.....	
Mn.....			

Averages for Rio Puerco/Hwy 66 D

Metals Analysis

As.....	1.6E+03	Mo.....	1.5E+02
Ba.....	5.3E+03	Ni.....	3.3E+03
Cd.....	1.2E+01	Pb.....	2.3E+03
Co.....	6.1E+02	Se.....	6.8E+00
Cr.....	1.8E+03	V.....	3.7E+03
Cu.....	4.5E+03	U.....	3.0E+03
Hg.....	2.6E+00	Zn.....	2.6E+04
Mn.....	3.0E+04		

Standard Deviations for Rio Puerco/Hwy 66 D

Metals Analysis

As.....	1.8E+03	Mo.....	2.7E+02
Ba.....	1.2E+04	Ni.....	5.5E+03
Cd.....	1.4E+01	Pb.....	1.9E+03
Co.....	3.6E+02	Se.....	4.4E+00
Cr.....	1.6E+03	V.....	4.3E+03
Cu.....	5.6E+03	U.....	2.6E+03
Hg.....	8.0E-01	Zn.....	
Mn.....	4.6E+04		

Rio Puerco/Hwy 6 Bro 3- 0-70 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4---	...		Mg	...	
NO2-	...		NH3	..	
NO3-	...				
NOx				
Cl-				
Total Anions		Total Cations	..	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	5.0E+00	Mo	1.1E+01
Ba	6.5E+01	Ni	5.4E+01
Cd	1.5E+02	Pb	4.6E+00
Co	2.5E+01	Se	
Cr	1.4E+00	V	0.0E+00
Cu	2.0E+01	U	5.1E+01
Hg		Zn	
Mn	3.3E+01		

Rio Puerco/Hwy 6 HFO 1- 0-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	..	
NO3-	...				
NOx	...				
Cl-	...				
Total Anions		Total Cations	..	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	1.0E+01	Mo	1.1E+03
Ba	5.1E+01	Ni	
Cd	1.2E+01	Pb	2.3E+00
Co	3.2E+00	Se	8.0E+00
Cr	3.2E-01	V	1.1E+02
Cu	1.6E+01	U	1.0E-01
Hg	2.0E-01	Zn	
Mn	5.2E+01		

Rio Puerco/Hwy 6 Brg 6- 0-79 6

Anion	ppm	Meg/L	Cation	ppm	Meg/L
HCO ₃ ⁻ ...			Na...		
CO ₃ ⁻ ...			K...		
SO ₄ ⁻ ...			Ca...		
PO ₄ ⁻ ...			Mg...		
NO ₂ ⁻ ...			NH ₃ ..		
NO ₃ ⁻ ...					
NOx.....					
Cl ⁻					
Total Anions.....			Total Cations.		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	3.0E+00	Mo.....	1.4E+01
Ba.....	1.3E+02	Ni.....	7.2E+00
Cd.....	5.8E+00	Pb.....	2.5E+00
Co.....	9.9E+02	Se.....	2.8E+01
Cr.....	1.0E+01	V.....	1.9E+01
Cu.....	4.1E+01	U.....	3.3E+01
Hg.....	5.0E-01	Zn.....	
Mn.....	1.1E+02		

Rio Puerco/Hwy 6 Erg 11- 0-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	..	
NO3-				
NOx				
Cl-				
Total Anions		Total Cations	.	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	3.0E+00	Mo	1.0E+02
Ba	6.7E+01	Ni	8.9E+01
Cd	6.7E+00	Pb	5.8E+01
Co	3.6E+01	Se	8.5E+00
Cr	2.7E+00	V	1.6E+02
Cu	3.0E+01	U	9.0E+01
Hg	1.8E+00	Zr	2.0E+01
Mn	4.7E+01		

Rio Puerco/Hwy 6 Brg 1- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-		Na	...	
CO3--		K	....
SO4--		Ca	...	
PO4--	..		Mg	...	
NO2-		NH3	..	
NO3-				
NOx				
Cl-				
Total Anions		Total Cations	..	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total dissolved Solids...
Alpha Count.....

Metals Analysis

As	3.0E+00	Mo	1.0E+01
Ba	5.0E+01	Ni	1.8E+01
Cd	6.4E+01	Pb	6.8E+00
Co	4.2E+01	Se	1.0E+01
Cr	5.0E+00	V	6.2E+01
Cu	3.6E+01	U	6.5E+01
Hg	6.0E-01	Zn	4.0E+01
Mn	2.1E+02		

Rio Puerco/Hwy 6 Brg 4- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...			Na...		
CO ₃ ⁻ ...			K....		
SO ₄ ⁻ ...			Ca...		
PO ₄ ⁻ ...			Mg...		
NO ₂ ⁻			NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻					
Total Anions.....			Total Cations..		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....		Pb.....	2.6E+02
Ba.....	1.3E+02	Ni.....	1.2E+02
Cd.....	7.0E-01	Pt.....	1.9E+01
Co.....		Se.....	1.1E+01
Cr.....	3.3E+00	V.....	3.2E+02
Cu.....	2.2E+01	U.....	8.0E+01
Hg.....	4.5E-01	Zn.....	1.1E+02
Mn.....			

Averages for Rio Puerco/Hwy 6 Bro

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...		Na...	
CO ₃ ⁻⁻ ...		K....	
SO ₄ ⁻⁻ ...		Ca...	
PO ₄ ⁼⁼ ..		Mg...	
NO ₂ ⁻		NH ₃ ..	
NO ₃ ⁻			
NOx.....			
Cl ⁻			
Total Anions.....		Total Cations.	
% Difference.....			

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....	4.8E+00	Mo.....	2.5E+02
Ba.....	8.2E+01	Ni.....	5.8E+01
Cd.....	3.9E+01	Pb.....	1.5E+01
Co.....	2.2E+02	Se.....	1.3E+01
Cr.....	2.1E+00	V.....	1.1E+02
Cu.....	2.7E+01	U.....	5.3E+01
Hg.....	7.1E-01	Zn.....	5.7E+01
Mn.....	9.0E+01		

Standard Deviations for Rio Puerco/Rwy 6 Bro

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...		Na...	
CO ₃ ⁻⁻ ...		K....	
SO ₄ ⁻⁻ ...		Ca...	
PO ₄ ⁻⁻⁻ ..		Mg...	
NO ₂ ⁻		NH ₃ ..	
NO ₃ ⁻			
NOx.....			
Cl ⁻			
Total Anions.....		Total Cations.	
% Difference.....			

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....	8.0E+00	Mo.....	4.2E+02
Ba.....	3.8E+01	Ni.....	5.9E+01
Cd.....	5.8E+01	Pb.....	2.2E+01
Co.....	4.5E+02	Se.....	1.4E+01
Cr.....	1.9E+00	V.....	1.2E+02
Cu.....	9.8E+00	U.....	3.3E+01
Hg.....	5.4E+00	Zn.....	9.4E+01
Mn.....	8.7E+01		

Rio Puerco/Hwy 6 1-15-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	2.6E+02	4.2E+00	Na...	4.2E+02	1.8E+01
CO ₃ ⁻⁻ ...			K....	1.5E+01	3.9E-01
SO ₄ ⁻⁻ ...	1.1E+03	2.3E+01	Ca...	1.8E+02	9.2E+00
PO ₄ ⁻⁻⁻ ...	4.0E+00	1.3E-01	Mg...	7.9E+01	6.5E+00
NO ₂ ⁻	9.8E-01	2.1E-02	NH ₃ ..	7.7E+00	
NO ₃ ⁻	4.2E-01	6.8E-03			
NO _x	5.1E-01				
Cl ⁻					
Total Anions.....		2.7E+01	Total Cations..		3.4E+01
% Difference.....		23.39%			

General Conditions

pH (field)..... 7.8E+00
T(C) (field)..... 1.0E+00
Conductivity..... 1.8E+03
Kjeldahl N.....
Sediment..... 1.0E+03
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 6 3-19-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	1.7E+02	2.8E+00	Na...	1.8E+02	7.9E+00
CO3--...	0.0E+00	0.0E+00	K....	5.9E+00	1.5E-01
SO4--...	6.3E+02	1.3E+01	Ca...	1.2E+02	5.8E+00
PO4---...	2.8E+00	8.8E-02	Mg...	2.5E+01	2.1E+00
NO2-....	1.0E-02	2.2E-04	NH3..	5.0E-01	
NO3-....	1.0E-02	1.6E-04			
NOx.....					
Cl-.....					
Total Anions.....		1.6E+01	Total Cations..		1.6E+01
% Difference.....		0.62%			

General Conditions

pH (field)..... 7.4E+00
T(C) (field)..... 7.0E+00
Conductivity..... 1.1E+03
Kjeldahl N..... 3.4E+00
Sediment..... 8.4E+04
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 6 6- 7-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.0E+02	1.7E+00	Na...	2.3E+02	1.0E+01
CO ₃ ⁻⁻ ...			K....	6.0E+00	1.5E-01
SO ₄ ⁻⁻ ...	8.7E+02	1.8E+01	Ca...	1.5E+02	7.7E+00
PO ₄ ⁻⁻⁻ ...	1.2E+00	3.9E-02	Hg...	3.5E+01	2.9E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻					
NOx.....					
Cl ⁻	3.8E+01	1.1E+00			
Total Anions.....		2.1E+01	Total Cations.		2.1E+01
% Difference.....		0.86%			

General Conditions

pH (field).....	6.7E+00
T(C) (field).....	1.7E+01
Conductivity.....	
Kjeldahl N.....	3.3E+00
Sediment.....	7.4E+00
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd..... 1.8E+03	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 6 11-12-79 C

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.1E+02	3.4E+00	Na...	3.2E+02	1.4E+01
CO3--...	0.0E+00	0.0E+00	K...	8.2E+00	2.1E-01
SO4--...	7.3E+02	1.5E+01	Ca...	9.6E+01	4.8E+00
PO4---...			Mg...	2.4E+01	2.0E+00
NO2-....	5.0E-03	1.1E-04	NH3..		
NO3-....	1.5E-01	2.5E-03			
NOx.....					
Cl-.....	7.1E+01	2.0E+00			
Total Anions.....		2.1E+01	Total Cations.		2.1E+01
% Difference.....		0.00%			

General Conditions

pH (field).....	7.0E+00
T(C) (field).....	2.5E+00
Conductivity.....	1.1E+03
Kjeldahl N.....	
Sediment.....	4.4E+04
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 6		1-18-80		0	
Anion	ppm	Meq/L	Cation	ppm	Meq/L
HC03-	2.1E+02	3.4E+00	Na	3.4E+02	1.5E+01
CO3--	0.0E+00	0.0E+00	K	9.9E+00	2.5E-01
SO4--	8.5E+02	1.8E+01	Ca	1.2E+02	5.9E+00
PO4--			Mg	2.9E+01	2.4E+00
NO2-	1.0E-02	2.2E-04	NH3		
NO3-	6.8E-01	1.1E-02			
NOx					
Cl-	6.7E+01	1.9E+00			
Total Anions		2.3E+01	Total Cations		2.3E+01
% Difference		0.68%			

General Conditions

pH (field)	7.1E+00
T(C) (field)	
Conductivity	1.8E+03
Kjeldahl N	5.4E-01
Sediment	8.5E+04
Total Dissolved Solids	
Alpha Count	

Metals Analysis

As	Mo
Ba	Ni
Cd	Pb
Co	Se
Cr	V
Cu	U
Hg	Zn
Mn	

Rio Puerco/Hwy 6 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-...	2.7E+02	4.3E+00	Na...	4.9E+02	2.1E+01
CO3--...	0.0E+00	0.0E+00	K....	1.0E+01	2.7E-01
SO4--...	1.2E+03	2.5E+01	Ca...	1.7E+02	8.5E+00
PO4---...			Hg...	6.7E+01	5.5E+00
NO2-....	2.0E-02	4.3E-04	NH3..		
NO3-....	5.0E-02	8.1E-04			
NOx.....					
Cl-.....	2.1E+02	5.8E+00			
Total Anions.....		3.5E+01	Total Cations.		3.5E+01
% Difference.....		1.00%			

General Conditions

pH (field).....	8.3E+00
T(C) (field).....	1.3E+01
Conductivity.....	2.8E+03
Kjeldabl N.....	
Sediment.....	4.0E+04
Total Dissolved Solids...	2.3E+03
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/Hwy 6		11- 0-80	0		
Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3--...	1.3E+02	2.2E+00	Na...	1.1E+02	4.8E+00
CO3--...	0.0E+00	0.0E+00	K....		
SO4--...	4.1E+02	8.6E+00	Ca...	1.1E+02	5.2E+00
PO4--...	1.0E+01	3.2E-01	Mg...	1.8E+01	1.5E+00
NO2-....	5.0E-02	1.1E-03	NH3..		
NO3-....	7.0E-01	1.1E-02			
NOx.....					
Cl-.....	3.2E+01	9.0E-01			
Total Anions.....		1.2E+01	Total Cations..		1.2E+01
% Difference.....		4.11%			

General Conditions

pH (field).....	8.0E+00
T(C) (field).....	2.2E+01
Conductivity.....	1.1E+03
Kjeldahl N.....	
Sediment.....	2.1E+04
Total Dissolved Solids...	7.6E+02
Alpha Count.....	

Metals Analysis

As.....	1.3E+00	Mo.....	1.9E+01
Ba.....	1.3E+02	Ni.....	4.4E+01
Cd.....	1.1E+00	Pb.....	3.4E+01
Co.....	1.1E+01	Se.....	5.9E+00
Cr.....	8.5E-01	V.....	1.6E+02
Cu.....	6.2E+01	U.....	3.5E+02
Hg.....	1.5E-01	Zn.....	3.8E+01
Mn.....			

Averages for Rio Puerco/Hwy 6

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	1.9E+02	Na...	3.0E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	9.3E+00
SO ₄ ⁻ ...	8.3E+02	Ca...	1.4E+02
PO ₄ ⁻⁻⁻ ..	4.6E+00	Mg...	4.0E+01
NO ₂ ⁻	1.5E-01	NH ₃ ..	4.1E+00
NO ₃ ⁻	3.4E-01		
NOx.....	5.1E-01		
Cl-.....	8.3E+01		
Total Anions.....	2.2E+01	Total Cations.	2.3E+01
% Difference.....	1.18%		

General Conditions

pH (field).....	7.5E+00
T(C) (field).....	1.0E+01
Conductivity.....	1.6E+03
Kjeldahl N.....	2.4E+00
Sediment.....	4.7E+00
Total Dissolved Solids...	1.5E+03
Alpha Count.....	

Metals Analysis

As.....	1.3E+00	Mo.....	1.9E+01
Ba.....	1.3E+02	Ni.....	4.4E+01
Cd.....	8.8E+02	Pb.....	3.4E+01
Co.....	1.1E+01	Se.....	5.9E+00
Cr.....	8.5E-01	V.....	1.6E+02
Cu.....	6.2E+01	U.....	3.5E+02
Hg.....	1.5E-01	Zn.....	3.8E+01
Mn.....			

Standard Deviations for Rio Puerco/Hwy 6

Anion	ppm	Cation	ppm
HCO3-....	6.0E+01	Na....	1.3E+02
CO3--....	0.0E+00	K.....	3.5E+00
SO4--....	2.7E+02	Ca....	3.5E+01
PO4---..	3.9E+00	Mg....	2.4E+01
NO2-.....	3.6E-01	NH3..	3.2E+01
NO3-.....	3.1E-01		
NOx.....			
Cl-.....	7.1E+01		
Total Anions.....	7.5E+00	Total Cations.	8.9E+00
% Difference.....	4.49%		

General Conditions

pH (field).....	5.9E-01
T(C) (field).....	1.2E+01
Conductivity.....	1.0E+03
Kjeldahl N.....	1.8E+01
Sediment.....	3.0E+04
Total Dissolved Solids...	3.6E+03
Alpha Count.....	

Metals Analysis

As.....		Mo.....	
Ba.....		Pb.....	
Cd.....	2.3E+03	Se.....	
Co.....		V.....	
Cr.....		U.....	
Cu.....		Zn.....	
Hg.....			
Mn.....			

Rio Puerco/Hwy 6 Dig 1- 0-79 0

Metals Analysis

As.....	2.2E+01	Mo.....	1.1E+01
Ba.....	2.6E+02	Ni.....	3.8E+01
Cd.....	5.1E+00	Pb.....	6.5E+01
Co.....		Se.....	3.0E+00
Cr.....	5.4E+01	V.....	
Cu.....	4.0E+01	U.....	
Hg.....	1.0E+00	Zn.....	
Mn.....	4.9E+02		

Rio Puerco/Hwy 6 Dia 3- 0-79 0

Metals Analysis

As.....	1.0E+03	Mo.....	5.1E+00
Ba.....	1.1E+03	Mi.....	1.3E+03
Cd.....	6.6E+00	Pb.....	1.6E+01
Co.....	1.1E+03	Se.....	1.3E+01
Cr.....	1.5E+03	V.....	1.2E+03
Cu.....	1.0E+03	U.....	
Hg.....	3.0E+00	Zn.....	
Mn.....	2.1E+04		

Rio Puerco/Hwy 6 Dig 6- 0-79 0

Metals Analysis

As.....	1.2E+03	Mo.....	9.3E+00
Ba.....	4.7E+03	Ni.....	1.2E+03
Cd.....	2.5E+01	Pb.....	1.5E+03
Co.....	1.7E+01	Se.....	1.0E+00
Cr.....	6.3E+02	V.....	5.6E+02
Cu.....	9.2E+02	U.....	
Hg.....	2.3E+00	Zn.....	
Mn.....	2.4E+04		

Rio Puerco/Hwy 6 Dig 11- 0-79 0

Metals Analysis

As.....	4.5E+01	Mo.....	1.1E+02
Ba.....		Ni.....	
Cd.....	1.3E+01	Pb.....	1.3E+03
Co.....	9.1E+02	Se.....	9.5E+00
Cr.....	2.3E+03	V.....	5.2E+03
Cu.....	1.7E+03	U.....	3.7E+03
Hg.....	3.5E+00	Zn.....	
Mn.....	1.8E+03		

Rio Puerco/Hwy 6 Dig 1- 0-80 0

Metals Analysis

As.....	3.0E+02	Mo.....	7.0E+00
Ba.....	3.4E+04	Ni.....	1.6E+04
Cd.....	2.5E+01	Pb.....	2.4E+03
Co.....	5.0E+02	Se.....	2.0E+00
Cr.....	3.1E+03	V.....	1.5E+04
Cu.....	6.7E+03	U.....	5.0E+03
Hg.....	3.0E+06	Zn.....	
Mn.....			

Rio Puerco/Hwy 6 Dig 4- 0-80 0

Metals Analysis

As.....	6.6E+01	Mo.....	5.2E+01
Ba.....	3.2E+02	Ni.....	1.2E+03
Cd.....		Pb.....	7.3E+02
Co.....	3.7E+02	Se.....	6.5E+00
Cr.....	1.4E+03	V.....	4.4E+03
Cu.....	1.5E+03	U.....	7.3E+03
Hg.....	2.1E+00	Zn.....	1.3E+03
Mn.....			

Rio Puerco/Hwy 6 Dia 9- 0-80 0

Metals Analysis

As.....	2.8E+01	Mo.....	1.1E+01
Ba.....	3.4E+02	Ni.....	1.1E+02
Cd.....	6.0E-01	Pb.....	4.6E+01
Co.....	7.6E+00	Se.....	1.2E-01
Cr.....	1.5E+02	V.....	5.0E+02
Cu.....		H.....	5.7E+02
Hg.....	2.5E+00	Zn.....	
Mn.....			

Averages for Rio Puerco/Hwy 6 Dig

Metals Analysis

As.....	3.9E+02	Mo.....	2.9E+01
Ba.....	6.8E+03	Ni.....	3.4E+03
Cd.....	1.3E+01	Pb.....	8.7E+02
Co.....	4.9E+02	Se.....	5.0E+00
Cr.....	1.3E+03	V.....	4.5E+03
Cu.....	2.0E+03	U.....	4.2E+03
Hg.....	2.5E+00	Zn.....	1.3E+03
Mn.....	1.2E+04		

Standard Deviations for Rio Puerco/Rwy 6 Dig

Metals Analysis

As.....	5.1E+02	Co.....	3.7E+01
Ba.....	1.4E+04	Ni.....	6.5E+03
Cd.....	1.5E+01	Pb.....	9.2E+02
Co.....	5.1E+02	Se.....	4.8E+00
Cr.....	1.1E+03	V.....	5.9E+03
Cu.....	2.6E+03	U.....	5.0E+03
Hg.....	8.1E-01	Zn.....	
Mn.....	1.7E+04		

Rio Puerco/I-25	1-15-79	0		
Anion	ppm	Meq/L	Cation	ppm Meq/L
HCO3-...			Na...	2.0E+02 8.7E+00
CO3--...			K....	
SO4--...			Ca...	
PO4---...			Mg...	2.7E+01 2.2E+00
NO2-.....			NH3..	
NO3-.....				
NOx.....				
Cl-.....				
Total Anions.....			Total Cations.	1.1E+01
% Difference.....				

General Conditions

pH (field).....
 T(C) (field).....
 Conductivity.....
 Kjeldahl N.....
 Sediment.....
 Total Dissolved Solids...
 Alpha Count.....

Metals Analysis

As.....	Mo.....
Ba.....	Ni.....
Cd.....	Pb.....
Co.....	Se.....
Cr.....	V.....
Cu.....	U.....
Hg.....	Zn.....
Mn.....	

Rio Puerco/1-25 2- 0-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...			Na...		
CO ₃ ⁻⁻ ...			K....		
SO ₄ ⁻⁻ ...			Ca...		
PO ₄ ⁻⁻⁻ ..			Mg...		
NO ₂ ⁻			NH ₃ ..		
NO ₃ ⁻					
NO _x					
Cl ⁻					
Total Anions.....			Total Cations.		
% Difference.....					

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As.....		Mo.....	1.7E+02
Ba.....	5.3E+01	Ni.....	1.0E+01
Cd.....	5.5E-01	Pb.....	2.0E+00
Co.....	2.1E+01	Se.....	7.0E+00
Cr.....	8.0E-01	V.....	
Cu.....	5.6E+00	U.....	
Hg.....		Zn.....	
Mn.....	3.7E+00		

Rio Puerco/I-25 11-12-79 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	2.1E+02	3.4E+00	Na	2.5E+02	1.1E+01
CO3--	0.0E+00	0.0E+00	K	6.0E+00	1.5E-01
SO4--	6.5E+02	1.3E+01	Ca	8.0E+01	4.0E+00
PO4--			Mg	1.9E+01	1.6E+00
NO2-	3.5E-02	7.6E-04	NH3		
NO3-	5.3E+00	8.6E-02			
NOx					
Cl-	4.3E+01	1.2E+00			
Total Anions		1.8E+01	Total Cations		1.6E+01
% Difference		9.82%			

General Conditions

pH (field)	7.1E+00
T(C) (field)	2.5E+00
Conductivity	9.2E+02
Kjeldahl N	
Sediment	5.5E+04
Total Dissolved Solids	
Alpha Count	

Metals Analysis

As	3.0E+00	Mo	8.7E+01
Ba	9.2E+01	Ni	
Cd	2.3E+00	Pb	2.8E+01
Co	3.3E+01	Se	5.0E+00
Cr	3.8E+00	V	1.3E+02
Cu	1.2E+01	U	6.5E+01
Hg	2.2E+00	Zn	
Mn	3.8E+01		

Rio Puerco/I-25 1-18-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.5E+02	2.5E+00	Na...	3.8E+02	1.6E+01
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K....	1.0E+01	2.6E-01
SO ₄ ⁻⁻ ...	9.6E+02	2.0E+01	Ca...	1.2E+02	6.1E+00
PO ₄ ⁻⁻⁻ ..			Mg...	3.2E+01	2.6E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻	5.5E-01	8.9E-03			
NO _x					
Cl ⁻	8.3E+01	2.3E+00			
Total Anions.....		2.5E+01	Total Cations..		2.5E+01
% Difference.....		2.26%			

General Conditions

pH (field).....	7.0E+00
T(C) (field).....	5.0E+00
Conductivity.....	
Kjeldahl N.....	3.8E-01
Sediment.....	9.4E+00
Total Dissolved Solids...	
Alpha Count.....	

Metals Analysis

As.....	3.0E+00	Mo.....	5.4E+02
Ba.....	5.7E+01	Ni.....	2.0E+01
Cd.....	1.5E+01	Pb.....	4.9E+00
Co.....	5.4E+01	Se.....	6.0E+00
Cr.....	2.0E+00	V.....	1.5E+02
Cu.....	3.5E+01	U.....	9.5E+01
Hg.....	4.0E-01	Zn.....	3.7E+01
Mn.....	3.9E+01		

Rio Puerco/1-25 4-21-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ ⁻ ...	1.3E+02	2.2E+00	Na...	7.6E+02	3.3E+01
CO ₃ ⁻⁻ ...	0.0E+00	0.0E+00	K...	1.3E+01	3.4E-01
SO ₄ ⁻⁻ ...	1.9E+03	4.1E+01	Ca...	2.0E+02	1.0E+01
PO ₄ ⁻⁻⁻ ...			Mg...	8.7E+01	7.2E+00
NO ₂ ⁻	1.0E-02	2.2E-04	NH ₃ ..		
NO ₃ ⁻	1.0E-02	1.6E-04			
NOx.....					
Cl ⁻	2.7E+02	7.7E+00			
Total Anions.....		5.1E+01	Total Cations..		5.1E+01
% Difference.....		0.80%			

General Conditions

pH (field).....	8.5E+00
T(C) (field).....	1.9E+01
Conductivity.....	4.0E+03
Kjeldahl N.....	
Sediment.....	3.4E+03
Total Dissolved Solids...	3.4E+03
Alpha Count.....	2.4E+01

Metals Analysis

As.....	3.0E+00	Mo.....	8.6E+01
Ba.....	7.9E+01	Ni.....	2.4E+02
Cd.....	2.4E+00	Pb.....	2.1E+01
Co.....		Se.....	1.4E+01
Cr.....	1.6E+00	V.....	3.0E+02
Cu.....	4.4E+01	U.....	3.0E+01
Hg.....	2.0E-02	Zn.....	1.2E+02
Mn.....			

Rio Puerco/1-25

9- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO3-	...		Na	...	
CO3--	...		K	...	
SO4--	...		Ca	...	
PO4--	...		Mg	...	
NO2-	...		NH3	..	
NO3-	...				
NOx	...				
Cl-	...				
Total Anions		Total Cations	..	
% Difference				

General Conditions

pH (field).....
T(C) (field).....
Conductivity.....
Kjeldahl N.....
Sediment.....
Total Dissolved Solids...
Alpha Count.....

Metals Analysis

As	7.3E+01	Mo	2.0E+01
Ba		Ni	4.6E+01
Cd	5.1E+00	Pb	2.0E+01
Co	1.4E+01	Se	5.9E+00
Cr	3.4E-01	V	7.9E+01
Cu	4.8E+00	U	4.0E+01
Hg	1.0E-01	Zn	
Mn			

Rio Puerco/1-25 11- 0-80 0

Anion	ppm	Meq/L	Cation	ppm	Meq/L
HCO ₃ -...	1.4E+02	2.3E+00	Na...	1.2E+02	5.2E+00
CO ₃ --...	0.0E+00	0.0E+00	K....	1.0E+01	2.6E-01
SO ₄ --...	7.4E+02	1.5E+01	Ca...	1.1E+02	5.6E+00
PO ₄ ---...	1.7E-02	5.4E-04	Mg...	2.6E+01	2.1E+00
NO ₂ -.....	1.0E-01	2.2E-03	NH ₃ ..		
NO ₃ -.....	1.5E+00	2.5E-02			
NO _x					
Cl-.....	3.9E+01	1.1E+00			
Total Anions.....		1.9E+01	Total Cations..		1.3E+01
% Difference.....		35.08%			

General Conditions

pH (field).....	7.9E+00
T(C) (field).....	1.8E+01
Conductivity.....	1.1E+03
Kjeldahl N.....	
Sediment.....	4.9E+04
Total Dissolved Solids...	8.6E-01
Alpha Count.....	

Metals Analysis

As.....	Mo.....
Ba.....	Pb.....
Cd.....	Se.....
Co.....	V.....
Cr.....	U.....
Cu.....	Zn.....
Hg.....	
Mn.....	

Averages for Rio Puerco/1-25

Anion	ppm	Cation	ppm
HCO ₃ ⁻ ...	1.6E+02	Na...	3.4E+02
CO ₃ ⁻⁻ ...	0.0E+00	K....	9.8E+00
SO ₄ ⁻⁻ ...	1.1E+03	Ca...	1.3E+02
PO ₄ ⁻⁻⁻ ...	1.7E-02	Hg...	3.8E+01
NO ₂ ⁻	3.9E-02	NH ₃ ..	
NO ₃ ⁻	1.9E+00		
NOx.....			
Cl ⁻	1.1E+02		
Total Anions.....	2.8E+01	Total Cations.	2.3E+01
% Difference.....	1.60%		

General Conditions

pH (field).....	7.6E+00
T(C) (field).....	1.1E+01
Conductivity.....	2.0E+03
Kjeldahl N.....	3.8E-01
Sediment.....	5.0E+04
Total Dissolved Solids...	1.7E+03
Alpha Count.....	2.4E+01

Metals Analysis

As.....	2.1E+01	Mo.....	1.8E+02
Ba.....	7.0E+01	Ni.....	8.0E+01
Cd.....	5.1E+00	Pb.....	1.5E+01
Co.....	3.1E+01	Se.....	7.6E+00
Cr.....	1.7E+00	V.....	1.7E+02
Cu.....	2.0E+01	U.....	5.8E+01
Hg.....	6.8E-01	Zn.....	7.9E+01
Mn.....	2.7E+01		

Standard Deviations for Rio Puerco/1-25

Anion	ppm	Cation	ppm
HCO3-...	3.4E+01	Na...	2.5E+02
CO3--...	0.0E+00	K....	2.9E+00
SO4--...	6.0E+02	Ca...	5.3E+01
PO4---..		Mg...	2.8E+01
NO2-....	4.3E-02	NH3..	
NO3-.....	2.4E+00		
NOx.....			
Cl-.....	1.1E+02		
Total Anions.....	3.2E+01	Total Cations.	2.3E+01
% Difference.....	0.43%		

General Conditions

pH (field).....	1.8E+01
T(C) (field).....	2.3E+01
Conductivity.....	3.3E+03
Kjeldahl N.....	
Sediment.....	6.2E+04
Total Dissolved Solids...	4.5E+03
Alpha Count.....	

Metals Analysis

As.....	4.6E+01	Mn.....	2.5E+02
Ba.....	8.2E+01	Rf.....	1.4E+02
Cd.....	1.2E+01	Pb.....	2.1E+01
Co.....	4.4E+01	Se.....	1.3E+01
Cr.....	8.4E+00	V.....	2.0E+02
Cu.....	2.8E+01	U.....	7.3E+01
Hg.....	1.1E+01	Zn.....	2.1E+02
Mn.....	5.6E+01		

Rio Puerco/I-25 Dig 11- 0-79 0

Metals Analysis

As.....	2.4E+01	Mo.....	9.0E+02
Ba.....	9.0E+01	Ni.....	
Cd.....	9.4E+00	Pb.....	2.4E+03
Co.....	1.2E+03	Se.....	9.0E+00
Cr.....	1.5E+03	V.....	3.2E+03
Cu.....	2.3E+02	U.....	3.6E+03
Hg.....	4.8E+00	Zn.....	
Mn.....	2.0E+03		

Rio Puerco/I-25 Dig 1- 0-80 0

Metals Analysis

As.....	4.1E+03	Mo.....	
Ba.....	4.8E+04	Ni.....	2.0E+04
Cd.....	3.4E+01	Pb.....	9.7E+01
Co.....	6.3E+02	Se.....	2.0E+00
Cr.....	3.5E+03	V.....	2.0E+04
Cu.....	6.5E+03	U.....	1.6E+03
Hg.....	2.6E+00	Zn.....	
Mn.....			

Rio Puerco/1-25 Dig 4- 0-80 0

Metals Analysis

As.....	1.7E+02	Mo.....	3.2E+02
Ba.....	1.4E+02	Ni.....	1.3E+03
Cd.....	3.0E+00	Pb.....	1.0E+03
Co.....	3.1E+02	Se.....	8.5E+00
Cr.....	6.9E+01	V.....	5.4E+02
Cu.....	2.5E+02	U.....	3.0E+01
Hg.....	6.4E+00	Zn.....	1.6E+02
Mn.....			

Rio Puerco/I-25 Dig 9- 0-80 0

Metals Analysis

As.....	3.9E+01	Mo.....	2.8E+01
Ba.....	1.0E+03	Ni.....	1.3E+02
Cd.....	1.6E+00	Pb.....	1.3E+02
Co.....	2.7E+01	Se.....	2.8E+01
Cr.....	7.2E+01	V.....	2.9E+02
Cu.....		U.....	4.6E+03
Hg.....	5.0E+00	Zn.....	
Mn.....			

Averages for Rio Puerco/1-25 Dia

Metals Analysis

As.....	1.1E+03	Mo.....	4.2E+02
Ba.....	1.2E+04	Ni.....	7.1E+03
Cd.....	1.2E+01	Pb.....	9.1E+02
Co.....	5.5E+02	Se.....	4.9E+00
Cr.....	1.3E+03	V.....	5.9E+03
Cu.....	2.3E+03	U.....	2.5E+03
Hg.....	4.7E+00	Zn.....	1.6E+02
Mn.....	2.0E+03		

Standard Deviations for Rio Puerco/1-25 Dig

Metals Analysis

As.....	2.0E+03	Mo.....	5.4E+02
Ba.....	2.4E+04	Ni.....	1.2E+04
Cd.....	1.5E+01	Pb.....	1.1E+03
Co.....	5.1E+02	Se.....	4.5E+00
Cr.....	1.6E+03	V.....	9.2E+03
Cu.....	4.0E+03	U.....	2.0E+03
Hg.....	1.6E+00	Zn.....	
Mn.....			