

APPENDIX 8

SAMPLE STATION 8

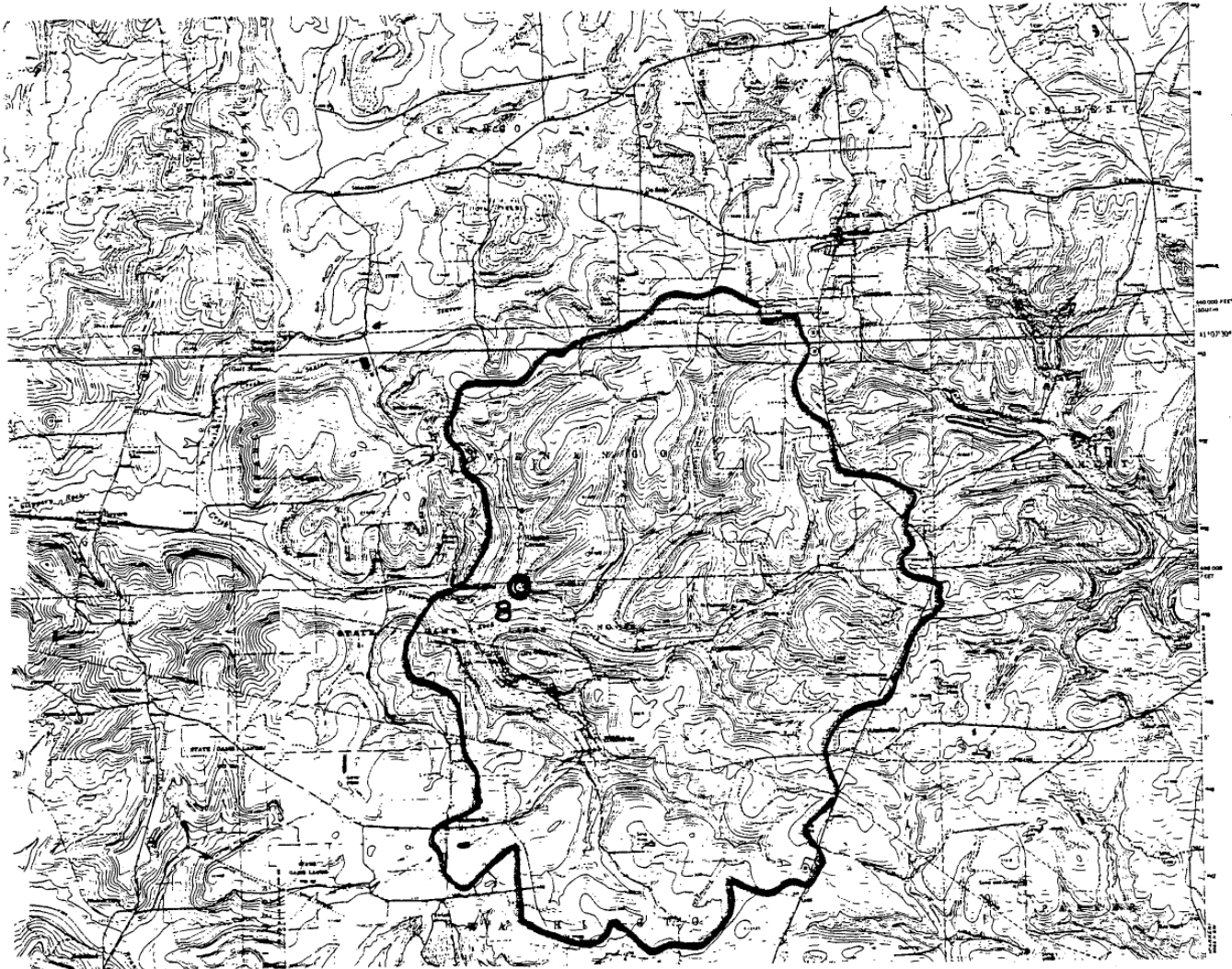
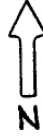
DEEP MINE OUTCROP SEEPAGE

PA STATE GAME LANDS #95

PROJECT SL-1.10-7-101.5

LEGEND:

- DRAINAGE AREA
- PROJECT AREA
- ⊙ SAMPLE STATION



SAMPLE STATION 8 (⊙)

SAMPLE LOCATION IN RELATION
TO
TOTAL SITE

SAMPLE STATION 8

Discharge Relationships

1. Drainage Area

The surface acreage contributing runoff to the monitoring location is estimated to be less than one acre. The principle origin of this discharge is seepage from a deep mine.

2. Measurement of Discharge

The discharge at this monitoring point was observed using a 90⁰ V-notch weir capable of measuring a discharge range up to 0.4 c.f.s.

3. Observed Discharge

The observed range of discharge measured at this monitoring point varied from 0.01 c.f.s. to 0.07 c.f.s. during the sampling.

4. Specific Yield

The specific yield of this monitoring point showed the following range:

N.A. c.f.s./1000 acres Minimum yield

N.A. c.f.s./1000 acres Maxims yield

The reviewer is directed to refer to the following materials during the discussion of the sample analyses and trends at this monitoring points:

a. Sheet 12 - which shows the data plotted and shows the regression line and field of variance.

b. Appendix 8 - which contains the sample data and regression runs.

5. pH relationship

The pH during the sampling period varied from 2.86-3.32. Regression analysis of the pH values indicates: A weak relationship exists where pH values increase as discharge increases.

6. Specific conductance relationship

The conductance during the sampling period varied from 700 - 1400. Regression analysis of the conductance indicates: A strong relationship exists where conductance decreases as discharge increases.

Chemical Relationship

1. pH Relationship

The pH during the sampling period varied from 2.86 - 3.32. Regression analysis of the pH values showed that: A moderate relationship exists where pH values decrease as conductance increases.

2. Acidity/Alkalinity balance (mg/l)

The acidity during the sampling period varied from 110 - 162. Regression analysis of the acidity values indicates: A moderate relationship exists where acidity concentration increases as conductance increases. No alkalinity was observed during the sampling period. No regression analysis was attempted.

3. Sulphate relationship (mg/l)

The sulphates during the sampling period varied from 142 - 637. Regression analysis of the sulphate values indicates: A extremely relationship exists where sulphate concentrations increases as conductance increases.

4. Total iron relationship (mg/l)

The total iron during the sampling period varied from 24 - 55. Regression analysis of the total iron values indicates: A weak relationship exists where total iron concentrations decreases as conductance increases.

5. Ferrous iron relationship (mg/l)

The ferrous iron during the sampling period varied from 18.5 - 49.0. Regression analysis of the ferrous iron values indicates: An extremely weak relationship exists where ferrous iron concentrations decreases as conductance increases.

6. Ferric iron relationship (mg/l)

The ferric iron during the sampling period varied from 3.1 -
An extremely weak relationship exists where ferric iron concentrations increases as conductance increases.

SAMPLE.EIGHT

DISCHARGE VS. SPECIFIC CONDUCTANCE

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2

24060.0000
663.5984
21.1799

REGRESSION COEFFICIENTS OF NORMAL EQUATION

1510.306152343750

23771.250000000000

194205.000000000000

ORIGINAL X	Y PAIRS	PREDICTED VALUES	DEVIATION
0.0200	1000.0000	1112.5632	112.5632
0.0200	1100.0000	1112.5632	12.5632
0.0100	1200.0000	1292.0139	92.0139
0.0200	1100.0000	1112.5632	12.5632
0.0300	1080.0000	971.9531	108.0469
0.0300	1100.0000	971.9531	128.0469
0.0300	850.0000	971.9531	121.9531
0.0400	780.0000	870.1841	90.1841
0.0400	700.0000	870.1841	170.1841
0.0300	950.0000	971.9531	21.9531
0.0700	800.0000	797.9226	2.0774
0.0300	800.0000	971.9531	171.9531
0.0300	900.0000	971.9531	71.9531
0.0400	1200.0000	870.1841	329.8159
0.0300	1000.0000	971.9531	28.0469
0.0300	900.0000	971.9531	71.9531
0.0200	1200.0000	1112.5632	87.4368
0.0200	1100.0000	1112.5632	12.5632
0.0200	900.0000	1112.5632	212.5632
0.0500	800.0000	807.2561	7.2561
0.0200	1300.0000	1112.5632	187.4368
0.0200	1400.0000	1112.5632	287.4368
0.0100	1400.0000	1292.0139	107.9861
0.0100	1400.0000	1292.0139	107.9861
0.0100	1100.0000	1292.0139	192.0139

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 2

NUMBER OF X - Y PAIRS= 25

TOTAL SUMS OF SQUARE= 1014864

SUMS OF SQUARES DUE TO REGRESSION= 532384

SUMS OF SQUARES DUE TO DEVIATION= 482480

GOODNESS OF FIT= .524586

MULTIPLE CORRELATION COEFFICIENT

0.72428

STANDARD DEVIATION 141.7861

ANALYSIS OF VARIANCE

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LAST REGRESSION	454320.00	1	454320.00
CUR. REGRESSION	532384.00	2	266192.00
CUR. ADDITION	78064.00	1	78064.00
CUR. DEVIATION	482480.00	22	21930.88
TOTAL VARIATION	1014864.00	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE

F TEST - SIGNIFICANCE OF REGRESSION = 12.14

LEVEL .05% - CRITICAL VALUE = 3.44

F TEST - IMPROVEMENT OF ADDED TERM =

3.56

LEVEL .05% - CRITICAL VALUE = 4.30

SAMPLE.EIGHT

DISCHARGE VS. PH

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2

76.5398
2.0911

REGRESSION COEFFICIENTS OF NORMAL EQUATION

3.005926132202

2.046234130859

ORIGINAL X - Y PAIRS	PREDICTED VALUES	DEVIATION
0.0200 3.1700	3.0469	0.1231
0.0200 3.1100	3.0469	0.0631
0.0100 3.0400	3.0264	0.0136
0.0200 3.0200	3.0469	0.0268
0.0300 3.2600	3.0673	0.1927
0.0300 3.1700	3.0673	0.1027
0.0300 3.1100	3.0673	0.0427
0.0400 3.3200	3.0878	0.2322
0.0400 3.2700	3.0878	0.1822
0.0300 3.0500	3.0673	0.0173
0.0700 2.9900	3.1492	0.1592
0.0300 3.2400	3.0673	0.1727
0.0300 3.0700	3.0673	0.0027
0.0400 3.0600	3.0878	0.0278
0.0300 3.0800	3.0673	0.0127
0.0300 3.0600	3.0673	0.0073
0.0200 3.0400	3.0469	0.0069
0.0200 2.8800	3.0469	0.1669
0.0200 2.9400	3.0469	0.1069
0.0500 2.8700	3.1082	0.2382
0.0200 3.0400	3.0469	0.0069
0.0200 2.9200	3.0469	0.1269
0.0100 2.8600	3.0264	0.1664
0.0100 2.9600	3.0264	0.0664
0.0100 3.0100	3.0264	0.0164

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1
 NUMBER OF X - Y PAIRS= 25
 TOTAL SUMS OF SQUARE= .377487
 SUMS OF SQUARES DUE TO REGRESSION= .019608
 SUMS OF SQUARES DUE TO DEVIATION= .35788
 GOODNESS OF FIT= .051942
 MULTIPLE CORRELATION COEFFICIENT 0.22791
 STANDARD DEVIATION .122113

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	.02	1	.02
DEVIATION	.36	23	.02
TOTAL VARIATION	.38	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE
 F TEST - SIGNIFICANCE OF REGRESSION = 1.26
 LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. PH

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2 2606
2606 2817979

76.5398
79498.2500

REGRESSION COEFFICIENTS OF NORMAL EQUATION

3.355976104736
0.000282417983

ORIGINAL X - Y PAIRS	PREDICTED VALUES	DEVIATION	
1000.0000	3.1700	3.0736	0.0964
1100.0000	3.1100	3.0453	0.0647
1200.0000	3.0400	3.0171	0.0229
1100.0000	3.0200	3.0453	0.0253
1080.0000	3.2600	3.0510	0.2090
1100.0000	3.1700	3.0453	0.1247
850.0000	3.1100	3.1159	0.0059
780.0000	3.3200	3.1357	0.1843
700.0000	3.2700	3.1583	0.1117
950.0000	3.0500	3.0877	0.0377
800.0000	2.9900	3.1300	0.1400
800.0000	3.2400	3.1300	0.1100
900.0000	3.0700	3.1018	0.0318
1200.0000	3.0600	3.0171	0.0429
1000.0000	3.0800	3.0736	0.0064
900.0000	3.0600	3.1018	0.0418
1200.0000	3.0400	3.0171	0.0229
1100.0000	2.8800	3.0453	0.1653
900.0000	2.9400	3.1018	0.1618
800.0000	2.8700	3.1300	0.2600
1300.0000	3.0400	2.9888	0.0512
1400.0000	2.9200	2.9606	0.0406
1400.0000	2.8600	2.9606	0.1006
1400.0000	2.9600	2.9606	0.0006
1100.0000	3.0100	3.0453	0.0353

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1
 NUMBER OF X - Y PAIRS= 25
 TOTAL SUMS OF SQUARE= .377487
 SUMS OF SQUARES DUE TO REGRESSION= .081818
 SUMS OF SQUARES DUE TO DEVIATION= .29567
 GOODNESS OF FIT= .216743
 MULTIPLE CORRELATION COEFFICIENT 0.46556
 STANDARD DEVIATION .110994

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	.08	1	.08
DEVIATION	.30	23	.01
TOTAL VARIATION	.38	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE
 F TEST - SIGNIFICANCE OF REGRESSION = 6.36
 LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. ALKALINITY

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2
2606

2606
2817979

0.0000
0.0000

REGRESSION COEFFICIENTS OF NORMAL EQUATION

0.000000000000
0.000000000000

ORIGINAL X - Y PAIRS		PREDICTED VALUES	DEVIATION
1000.0000	0.0000	0.0000	0.0000
1100.0000	0.0000	0.0000	0.0000
1200.0000	0.0000	0.0000	0.0000
1100.0000	0.0000	0.0000	0.0000
1080.0000	0.0000	0.0000	0.0000
1100.0000	0.0000	0.0000	0.0000
850.0000	0.0000	0.0000	0.0000
780.0000	0.0000	0.0000	0.0000
700.0000	0.0000	0.0000	0.0000
950.0000	0.0000	0.0000	0.0000
800.0000	0.0000	0.0000	0.0000
800.0000	0.0000	0.0000	0.0000
900.0000	0.0000	0.0000	0.0000
1200.0000	0.0000	0.0000	0.0000
1000.0000	0.0000	0.0000	0.0000
900.0000	0.0000	0.0000	0.0000
1200.0000	0.0000	0.0000	0.0000
1100.0000	0.0000	0.0000	0.0000
900.0000	0.0000	0.0000	0.0000
800.0000	0.0000	0.0000	0.0000
1300.0000	0.0000	0.0000	0.0000
1400.0000	0.0000	0.0000	0.0000
1400.0000	0.0000	0.0000	0.0000
1400.0000	0.0000	0.0000	0.0000
1100.0000	0.0000	0.0000	0.0000

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1
 NUMBER OF X - Y PAIRS= 25
 TOTAL SUMS OF SQUARE= 0
 SUMS OF SQUARES DUE TO REGRESSION= 0
 SUMS OF SQUARES DUE TO DEVIATION= 0
 GOODNESS OF FIT= 0
 MULTIPLE CORRELATION COEFFICIENT 0.00000
 STANDARD DEVIATION 0

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	.00	1	.00
DEVIATION	.00	23	.00
TOTAL VARIATION	.00	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE
 F TEST - SIGNIFICANCE OF REGRESSION = 0.00
 LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. ACIDITY

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2

2606

3571.0000

2606

2817979

3759500.0000

REGRESSION COEFFICIENTS OF NORMAL EQUATION

104.740646362305

0.036549557000

ORIGINAL X - Y PAIRS		PREDICTED VALUES	DEVIATION
1000.0000	159.0000	141.2902	17.7098
1100.0000	154.0000	144.9451	9.0549
1200.0000	157.0000	148.6001	8.3999
1100.0000	157.0000	144.9451	12.0549
1080.0000	153.0000	144.2142	8.7858
1100.0000	145.0000	144.9451	0.0549
850.0000	136.0000	135.8078	0.1922
780.0000	152.0000	133.2493	18.7507
700.0000	124.0000	130.3253	6.3253
950.0000	136.0000	139.4627	3.4627
800.0000	116.0000	133.9803	17.9803
800.0000	136.0000	133.9803	2.0197
900.0000	110.0000	137.6352	27.6352
1200.0000	122.0000	148.6001	26.6001
1000.0000	124.0000	141.2902	17.2902
900.0000	131.0000	137.6352	6.6352
1200.0000	133.0000	148.6001	15.6001
1100.0000	154.0000	144.9451	9.0549
900.0000	142.0000	137.6352	4.3648
800.0000	152.0000	133.9803	18.0197
1300.0000	149.0000	152.2551	3.2551
1400.0000	161.0000	155.9100	5.0900
1400.0000	162.0000	155.9100	6.0900
1400.0000	151.0000	155.9100	4.9100
1100.0000	155.0000	144.9451	10.0549

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1

NUMBER OF X - Y PAIRS= 25

TOTAL SUMS OF SQUARE= 5458

SUMS OF SQUARES DUE TO REGRESSION= 1355.875

SUMS OF SQUARES DUE TO DEVIATION= 4102.125

GOODNESS OF FIT= .248419

MULTIPLE CORRELATION COEFFICIENT 0.49842

STANDARD DEVIATION 13.0737

ANALYSIS OF VARIANCE

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	1355.88	1	1355.88
DEVIATION	4102.13	23	178.35
TOTAL VARIATION	5458.00	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE

F TEST - SIGNIFICANCE OF REGRESSION = 7.60

LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. SULPHATES

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2 2606
2606 2817979

12897.0000
13551060.0000

REGRESSION COEFFICIENTS OF NORMAL EQUATION

405.716308593750
0.105681717396

ORIGINAL X - Y PAIRS	PREDICTED VALUES	DEVIATION
1000.0000	511.3979	80.6021
1100.0000	521.9661	155.0339
1200.0000	532.5342	73.4658
1100.0000	521.9661	57.0339
1080.0000	519.8525	22.1475
1100.0000	521.9661	25.0339
850.0000	495.5457	46.4543
780.0000	488.1479	96.8521
700.0000	479.6934	12.3066
950.0000	506.1138	53.8862
800.0000	490.2615	348.2615
800.0000	490.2615	27.2615
900.0000	500.8298	71.8298
1200.0000	532.5342	127.5342
1000.0000	511.3979	12.3979
900.0000	500.8298	22.1702
1200.0000	532.5342	2.4658
1100.0000	521.9661	1.0339
900.0000	500.8298	44.1702
800.0000	490.2615	39.2615
1300.0000	543.1025	31.8975
1400.0000	553.6707	16.6707
1400.0000	553.6707	112.6707
1400.0000	553.6707	83.6707
1100.0000	521.9661	115.0339

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1

NUMBER OF X - Y PAIRS= 25

TOTAL SUMS OF SQUARE= 248053

SUMS OF SQUARES DUE TO REGRESSION= 11382

SUMS OF SQUARES DUE TO DEVIATION= 236671

GOODNESS OF FIT= .045885

MULTIPLE CORRELATION COEFFICIENT

0.21421

STANDARD DEVIATION 99.30381

SOURCE OF VARIATION	ANALYSIS OF VARIANCE		
	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	11382.00	1	11382.00
DEVIATION	236671.00	23	10290.00
TOTAL VARIATION	248053.00	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE

F TEST - SIGNIFICANCE OF REGRESSION =

1.11

LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. TOTAL IRON

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2 2606
2606 2817979

995.5986
1033358.4375

REGRESSION COEFFICIENTS OF NORMAL EQUATION

44.392196655273
0.004382651299

ORIGINAL X - Y PAIRS	PREDICTED VALUES	DEVIATION
1000.0000	38.2000	40.0095
1100.0000	50.0000	39.5713
1200.0000	37.2000	39.1330
1100.0000	49.4000	39.5713
1080.0000	55.3000	39.6589
1100.0000	44.5000	39.5713
850.0000	37.5000	40.6669
780.0000	51.0000	40.9737
700.0000	45.5000	41.3243
950.0000	33.0000	40.2287
800.0000	34.4000	40.8861
800.0000	51.0000	40.8861
900.0000	31.0000	40.4478
1200.0000	38.3000	39.1330
1000.0000	42.9000	40.0095
900.0000	34.2000	40.4478
1200.0000	24.3000	39.1330
1100.0000	37.6000	39.5713
900.0000	30.0000	40.4478
800.0000	40.0000	40.8861
1300.0000	32.3000	38.6947
1400.0000	40.4000	38.2565
1400.0000	37.0000	38.2565
1400.0000	44.2000	38.2565
1100.0000	36.4000	39.5713

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1
 NUMBER OF X - Y PAIRS= 25
 TOTAL SUMS OF SQUARE= 1389.226
 SUMS OF SQUARES DUE TO REGRESSION= 19.65625
 SUMS OF SQUARES DUE TO DEVIATION= 1369.57
 GOODNESS OF FIT= .014149
 MULTIPLE CORRELATION COEFFICIENT 0.11895
 STANDARD DEVIATION 7.554166

ANALYSIS OF VARIANCE			
SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	19.66	1	19.66
DEVIATION	1369.57	23	59.55
TOTAL VARIATION	1389.23	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE
 F TEST - SIGNIFICANCE OF REGRESSION = 0.33
 LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE.EIGHT

SPECIFIC CONDUCTANCE VS. FERROUS IRON

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2 2606
2606 2817979

775.7991
802914.5625

REGRESSION COEFFICIENTS OF NORMAL EQUATION

36.960662841797
0.005687773228

ORIGINAL X - Y PAIRS	PREDICTED VALUES	DEVIATION
1000.0000 24.0000	31.2729	7.2729
1100.0000 30.2000	30.7041	0.5041
1200.0000 22.0000	30.1353	8.1353
1100.0000 37.2000	30.7041	6.4959
1080.0000 49.0000	30.8179	18.1821
1100.0000 34.5000	30.7041	3.7959
850.0000 31.5000	32.1261	0.6261
780.0000 37.5000	32.5242	4.9758
700.0000 39.5000	32.9792	6.5208
950.0000 26.0000	31.5573	5.5573
800.0000 29.6000	32.4104	2.8104
800.0000 42.5000	32.4104	10.0896
900.0000 23.0000	31.8417	8.8417
1200.0000 30.9000	30.1353	0.7647
1000.0000 36.4000	31.2729	5.1271
900.0000 26.3000	31.8417	5.5417
1200.0000 18.5000	30.1353	11.6353
1100.0000 34.5000	30.7041	3.7959
900.0000 22.0000	31.8417	9.8417
800.0000 30.4000	32.4104	2.0104
1300.0000 23.9000	29.5665	5.6665
1400.0000 32.4000	28.9978	3.4022
1400.0000 30.0000	28.9978	1.0022
1400.0000 35.0000	28.9978	6.0022
1100.0000 29.0000	30.7041	1.7041

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1

NUMBER OF X - Y PAIRS= 25

TOTAL SUMS OF SQUARE= 1217.8

SUMS OF SQUARES DUE TO REGRESSION= 32.91015

SUMS OF SQUARES DUE TO DEVIATION= 1184.89

GOODNESS OF FIT= .027024

MULTIPLE CORRELATION COEFFICIENT 0.16439

STANDARD DEVIATION 7.026404

ANALYSIS OF VARIANCE

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	32.91	1	32.91
DEVIATION	1184.89	23	51.52
TOTAL VARIATION	1217.80	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE

F TEST - SIGNIFICANCE OF REGRESSION = 0.64

LEVEL .05% - CRITICAL VALUE = 4.28

SAMPLE EIGHT

SPECIFIC CONDUCTANCE VS. FERRIC IRON

COEFFICIENT MATRIX AND AUGMENTED MATRIX

2 2606
2606 2817979

219.7999
230443.6250

REGRESSION COEFFICIENTS OF NORMAL EQUATION

7.431793212891
0.001304874895

ORIGINAL X	Y PAIRS	PREDICTED VALUES	DEVIATION
1000.0000	14.2000	8.7367	5.4633
1100.0000	19.8000	8.8672	10.9328
1200.0000	15.2000	8.9976	6.2024
1100.0000	12.2000	8.8672	3.3328
1080.0000	6.3000	8.8411	2.5411
1100.0000	10.0000	8.8672	1.1328
850.0000	6.0000	8.5409	2.5409
780.0000	13.5000	8.4496	5.0504
700.0000	6.0000	8.3452	2.3452
950.0000	7.0000	8.6714	1.6714
800.0000	4.8000	8.4757	3.6757
800.0000	8.5000	8.4757	0.0243
900.0000	8.0000	8.6062	0.6062
1200.0000	7.4000	8.9976	1.5976
1000.0000	6.5000	8.7367	2.2367
900.0000	7.9000	8.6062	0.7062
1200.0000	5.8000	8.9976	3.1976
1100.0000	3.1000	8.8672	5.7672
900.0000	8.0000	8.6062	0.6062
800.0000	9.6000	8.4757	1.1243
1300.0000	8.4000	9.1281	0.7281
1400.0000	8.0000	9.2586	1.2586
1400.0000	7.0000	9.2586	2.2586
1400.0000	9.2000	9.2586	0.0586
1100.0000	7.4000	8.8672	1.4672

STATISTICAL ANALYSIS WITH ORDER OF EQUATION= 1

NUMBER OF X - Y PAIRS= 25

TOTAL SUMS OF SQUARE= 325.1015

SUMS OF SQUARES DUE TO REGRESSION= 1.731445

SUMS OF SQUARES DUE TO DEVIATION= 323.3701

GOODNESS OF FIT= 5.325854E-3

MULTIPLE CORRELATION COEFFICIENT 0.07298

STANDARD DEVIATION 3.67066

ANALYSIS OF VARIANCE

SOURCE OF VARIATION	SUM OF SQUARES	DEGREES OF FREEDOM	MEAN SQUARE
LIN. REGRESSION	1.73	1	1.73
DEVIATION	323.37	23	14.06
TOTAL VARIATION	325.10	24	

F-TEST FOR EQUALITY OF SAMPLE/REGRESSION VARIANCE

F TEST - SIGNIFICANCE OF REGRESSION = 0.12

LEVEL .05% - CRITICAL VALUE = 4.28