

**YEARBOOK 1980 - 1983 EASTERN DELTA
DISCHARGE AND CHEMICAL COMPOSITION DRAINAGE WATER**

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DISCHARGE AND CHEMICAL COMPOSITION DRAINAGE
WATER

PROJECT TEAM

REPORT 4

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PREFACE:

The 'Reuse of Drainage Water Project' is a joint activity of the technical agencies:

Drainage Research Institute (DRI), Giza/Cairo-Egypt
and

Institute for Land and Water Management Research (ICW),
Wageningen, The Netherlands.

The Project is funded by the Ministry of Irrigation of Egypt and by the Ministry of Foreign Affairs of the Netherlands in the framework of the joint programme of Technical Cooperation between Egypt and the Netherlands.

The Advisory Panel for Land Drainage in Egypt acts as steering committee.

The results of studies, carried out in the 'Reuse of Drainage Water Project', will be presented in preliminary reports and in a final report. As such the contents of preliminary reports can vary strongly, from a simple presentation of data to a discussion of research results with tentative conclusions.

All opinions, conclusions and recommendations in these reports are those of the cooperating Institutes, and not of the Ministry of Irrigation of Egypt or the Ministry of Foreign Affairs of the Netherlands.

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1. INTRODUCTION

The growing population of Egypt requires an increase in the production of food and fibres. It also requires new land to substitute land lost due to newly built housings and roads.

Four strategies have been developed to meet the requirements. Among others, reuse of drainage water is a strategy to provide additional irrigation water for areas that will be reclaimed. In the five-year plan 1982-1987 for a total area of about 640,000 feddan (1 feddan = 0,42 ha) reclamation plans will be prepared, and a start will be made with the implementation.

The Re-use of Drainage Water Project aims to provide basic data, that can be used in the above mentioned planning. A measurement network has been established to provide these data. At drainage-catchment level, discharges and drainage waterquality are determined. Discharges from drainage pumping stations are provided by the Ministry of Irrigation. Calibrations of these pumping stations are part of the Reuse Project activities and provide data to calculate the discharges more accurately.

Discharges from areas drained by gravity are measured by appropriate methods, depending on a number of constraints. Water samples at the locations, shown in fig. 1 are regularly taken. The chemical composition is determined and water quality parameters are calculated.

The aim of this report is to present the basic data in a suitable form for the potential user. A short description of the procedures followed is included in this report.

The data are presented in two sections: in the first section are discharges salinities and parameters for the sodification hazards of irrigation with these waters. In the second section the monthly average chemical composition is presented. Application of these data for different purposes is beyond the scope of this report.

The cooperating Institutes do not accept any responsibility for conclusions drawn on the basis of the data presented nor for the results of application of these data.

2. DATA ELABORATION

In this chapter an overview will be presented of the procedure of data elaboration. Two types of data are distinguished; discharges and chemical characteristics of the drainage water. Concerning the latter, the parameters given are the total dissolved salts, the electrical conductivity, the sodium adsorption ratio and the adjusted sodium adsorption ratio. These parameters are calculated as monthly averages and weighted with respect to discharges.

The elaboration procedure for chemical analysis is in brief as follows: first entering the basic data on computer files. Then the total charge of both cations and anions is calculated. Simultaneously the electrical conductivity is calculated, based on the contribution of each ion to this conductivity. Results are listed and a manual check is performed. Deviations due to mistypings or wrong calculations are restored. If no reason can be found for the detected deviations, results are rejected.

Discharges can be obtained in different ways. Data concerning discharges of pumping stations: lifting head, number of operation hours and the monthly discharge itself are obtained from the Ministry of Irrigation. Based on calibration measurements by DRI a rating curve for the pumping station is established. The average monthly capacity, corresponding to the lifting head is read from this curve and multiplied with the number of operation hours.

If, however, only discharges are provided, these are multiplied by the efficiency of the pumping station.

Discharges at open drainage canal locations may have been determined by float-measurements, by pendulum, by current meter or through a stage discharge relation by measuring the water level.

These discharges are measured with certain time intervals. During these intervals the discharge is assumed to change linearly with time. The total discharge per month is obtained by integration with respect to time.

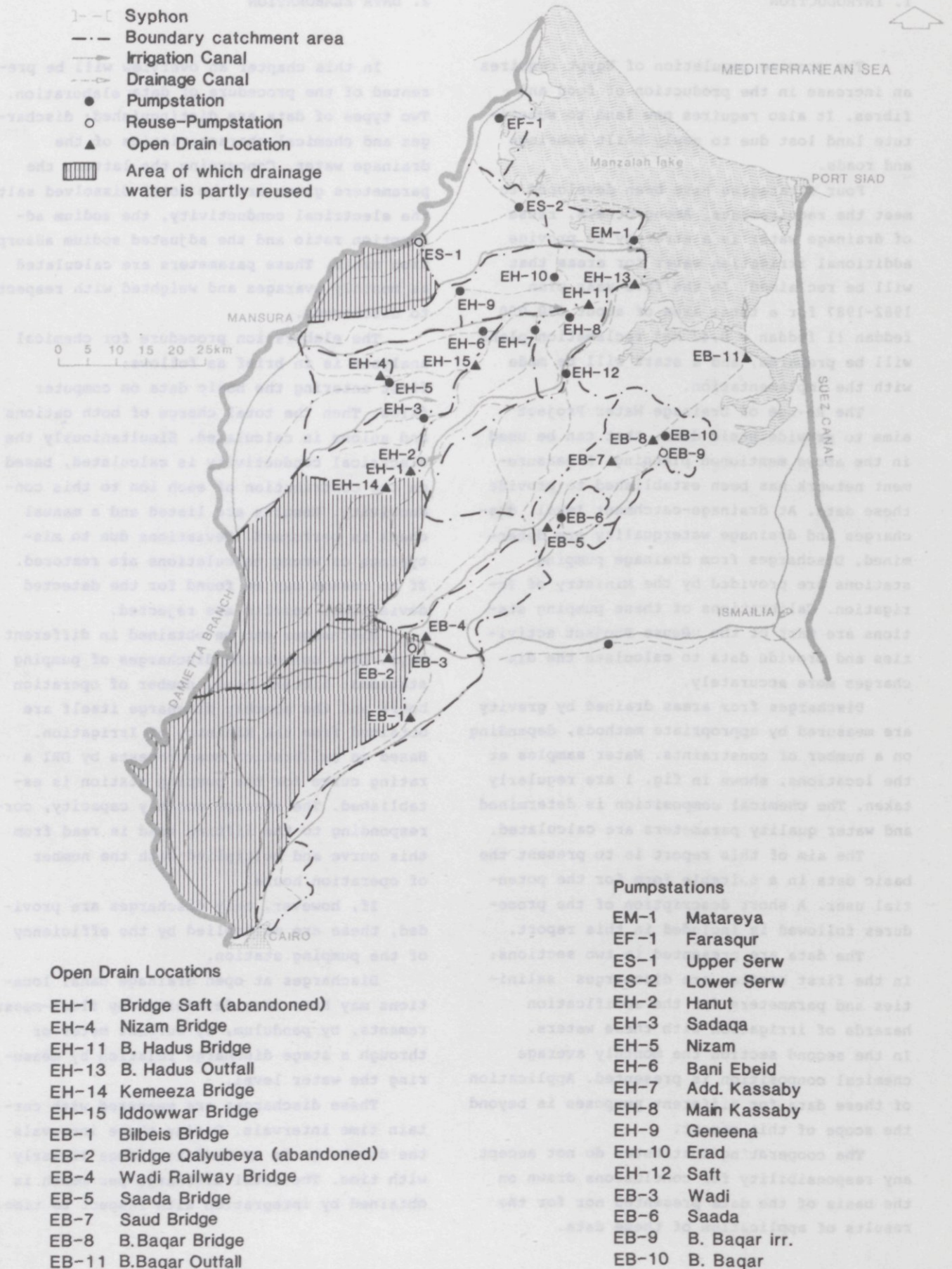


Fig. 1. General view of the network in the Eastern Delta

2.1. Calibration of pumping stations

For each pump unit the relationship between lifting head and discharge has been determined. During the measurement a more or less steady state situation does exist. The water levels at the suction- and delivery side are measured just before and after the discharge measurements.

Discharges are determined, using the current meter, for which a relation is available between the flow velocity and the rotation rate of the meter. Regularly this relation is recalibrated by the Hydraulic Research Institute at the Delta Barrage.

The cross-section at the suction side is subdivided into a grid with meshes of $0,5 \times 0,5 \text{ m}^2$. The velocity in each node is measured during 30 seconds. Multiplying this velocity with the representative area, gives its contribution to the total discharge. In general at least three calibrations per pump unit are performed at lifting heads more or less representing the full range, at which the station is operating.

For the production of this yearbook all the calibration results of the pump units of each pumping station are combined and the best fitting curve is matched.

The average efficiency of a pumping station can be obtained by dividing its capacity, pertaining to the average lifting head, by the guarantee capacity. The guarantee capacity is used by the Ministry of Irrigation to calculate the total discharge from the number of operation hours. This capacity is more or less the capacity of new pumps, operating at average expected lifting heads.

2.2. Stage-discharge relations

The relationship between discharge and water level, the so called stage-discharge relation, can only exist under certain conditions. The first condition is steady state flow, where the slope of the energy line is identical to the slope of the bottom. If changes in discharge occur only very slowly, no significant deviations from the steady state conditions will occur. A second condition is that the shape of the

cross section is regular and the hydraulic roughness is almost constant.

The water level should not be affected by changing conditions downstream of the observation location.

If all conditions are fulfilled the discharge is a function of the water depth (LAMBIE, 1978)

$$Q = a.H^b \quad \text{m}^3.\text{s}^{-1}$$

In some cases H is not the real water depth, but some height above a level at which the discharge is zero. The constants a and b are derived from the calibration measurements. If not explicitly measured, the water level at which the discharge is zero, can be determined by curve-fitting.

The squared correlation coefficient should be higher than some minimum value, depending on the number of observations. A value of 0.95 is required when the number of observation is less than 5 and 0.90 when this number is less than 10 but more than 5 (ROEST, 1983). For practical applications this value must be higher than 0.5.

If no satisfactory squared correlation coefficient has been obtained, either back-water effects or non steady state conditions have been met.

The discharge at a certain date can now be determined by measuring the water level and reading the pertaining discharge from the stage-discharge curve.

2.3. Float measurements

Float measurement consists of the measurement of the flow velocity at the surface. In cases with regularly shaped cross-sections, the surface flow velocity at a certain point is related to the average flow velocity in the sub section.

In most cases the average velocity in the sub-section is about 85% of the surface velocity. Measuring at a number of locations, at different distances from the banks the surface velocity, gives ultimately the total discharge at that location.

Floats can be subject to wind effects, giving deviating results. Applied under bridges with contracting stream lines, could give

erraneous results. Data from float-measurements should be considered tentatively.

2.4. Pendulum measurements

The principle of the pendulum meter is based on the force acting on resistance bodies, fixed in streaming water. The magnitude of this force is closely related to the flow velocity and to the shape of the body. With pendulum measurements, a torpedo shaped body with two incinated rearwings is submerged. This body is connected to a wire and is hanging vertical if no velocity is present. The water velocity causes a deviation of the wire from the vertical position. The angle between the wire and the vertical is a measure for the velocity. For each type of body such a relation is available. Measuring at different depths, at different locations provides a velocity distribution in the cross-section and consequently a discharge at that moment.

2.5. Data checking chemical analysis

At the DRI-laboratory the concentration of Ca, Mg, Na, K, CO_3 , HCO_3 and Cl has been determined. From the difference in total charge of the cations and the anions, the concentration of SO_4 has been calculated. More over the EC and pH is measured.

Data checking includes first the calculation of the total charge of the anions and the cations. If typing errors during data entry occur, the sum of the charges is not zero.

A second check is obtained by calculating the electrical conductivity and comparing with the measured one.

Basis for this calculation is the assumption, that the EC of a solution, containing several different ions, is the sum of the contributions of the single ion. For the latter empirical relationships have been developed (ROEST, 1983). If the difference between calculated and measured EC is more than 10 %, an error may be assumed and the original data must be compared with the data entered. In case of deviations the entered data are restored, otherwise this set of data has

been rejected for further elaboration.

2.6. Data presentation

For the pumping stations the discharge provided by the Ministry of Irrigation in million cubic meter per month has been included in the data presentation. The number of operation hours and average lifting head per month have been obtained.

Rating curves are available, whether supplied by the factory or from calibration measurements. If no calibrations are available the factory provided rating curve has been used. In other cases the guarantee capacity has been used or the average capacity from the calibration measurements.

To distinguish the different situations, a code is used to indicate the particular situation.

In table 1 the codes and the meaning of code has been listed.

Table 1. Codes and their meaning

Code	Description
11	- pump station; discharge known in hours of operation; calibration curve established
12	- pump station; discharge not known in hours; calibration curve established
13	- pump station; no calibration curve
21	- open drain; Hm measured; linear relation between discharge and Hm
22	- open drain; Hm measured; power curve relation between water depth and discharge
23	- open drain; float discharge measured; no good calibration relation available
24	- open drain or pump station; no discharge known or measured

For each location this code has been presented in the header, together with the name and code-name of the location, the year and the stage-discharge relation or rating curve. The square of the correlation coefficient is mentioned. The value of this item has been set to zero, in cases where no rating curve is available and in case the average capacity is used.

The total discharge per year is calculated only in those situations that data of all

months are available.

The same holds for the average water-quality parameters.

The discharges at open drainage canal locations have been calculated on a monthly basis. It has been assumed that the discharge rate in between two succeeding measurement dates changes linearly, with time. The course of the discharge rate is described by a polygon. The discharge per month has been obtained by integrating this polygon with respect to time, between the time boundaries, belonging to that particular month (see Fig. 2).

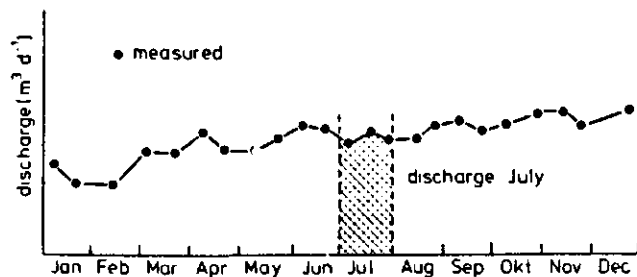


Fig. 2. Schematic presentation, determination discharge per month

The average water quality per month is obtained in a similar way. In this case the concentration of each ion has been multiplied by the discharge rate and with the ionic load thus obtained, a polygon has been constructed. Again an integration per month has been done and the result has been divided by the monthly discharge. With the average composition of the drainage water obtained the water quality parameters have been calculated.

The salinity, expressed in parts per million (ppm) has been calculated by multiplying the concentration of each ion (in meq.liter^{-1}) by its atomic weight, divided by its charge, and adding the results.

The cation composition of irrigation water determines its potential for sodium hazards for which the sodium adsorption ratio is a parameter.

This parameter has been defined as:

$$\text{SAR} = \frac{[\text{Na}]}{\sqrt{([\text{Ca}] + [\text{Mg}]) \cdot \frac{1}{2}}} \quad (\text{mmol}^{\frac{1}{2}}\text{l}^{\frac{1}{2}})$$

In general four categories are used with limits 0, 12 and 18, where irrigation water having $\text{SAR} > 18$ is in general unsuitable for

irrigation except at low salinity ($\text{ppm} < 750$) and using amendments.

A second parameter to classify the sodium hazard is the adjusted SAR. It has been defined as:

$$\text{adj.SAR} = \text{SAR}(9.4 - \text{pH}_c) \quad (\text{mmol}^{\frac{1}{2}}\text{l}^{\frac{1}{2}})$$

where:

$$\text{pH}_c = (\text{pK}'_2 - \text{pK}'_c) + \text{p}(\text{Ca} + \text{Mg}) + \text{pALK}$$

where $\text{p}(\text{Ca} + \text{Mg})$ and pALK are the negative value of the logarithm of the molar concentration of $(\text{Ca} + \text{Mg})$ and equivalent concentration of titratable base ($\text{CO}_3 + \text{HCO}_3$) respectively and pK'_2 and pK'_c are the negative value of the logarithms of the second dissociation constant of H_2CO_3 and of the solubility product of CaCO_3 , respectively, both corrected for ionic strength. At pH_c values less than 8.4 the soluble calcium tends to precipitate, while at values greater than 8.4 there is a tendency to dissolve lime (EL GUINDY, 1979).

Values of adj. SAR less than 6 do not cause permeability problems when irrigation water having that value is used. Problems increase when the value increases from 6 to 16 where values above 16 cause severe permeability problems.

Salinization hazards are classified by the total dissolved salt parameter, but are related to both drainage conditions and crop sensitivity. In general no problems have to be expected on poorly drained soils when the TDS is less than 750 ppm and when a normal irrigation is practiced.

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1980 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	28.42	1.01	717.	2.40	5.61
2	-	21.91	1.05	764.	1.42	3.53
3	-	35.18	0.98	717.	1.38	3.40
4	-	35.18	1.11	746.	3.00	6.91
5	-	35.19	1.45	881.	5.37	11.13
6	-	33.27	0.88	583.	1.24	2.83
7	-	35.07	0.96	694.	2.75	6.32
8	-	38.11	0.93	695.	1.75	4.14
9	-	45.29	0.91	640.	1.87	4.37
10	-	41.81	1.00	697.	1.57	3.81
11	-	44.68	1.23	901.	1.30	3.40
12	-	46.79	1.17	855.	1.69	4.22
1980	-	440.88	1.06	744.	2.04	4.89

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1981 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	30.34	1.17	830.	3.78	8.64
2	-	15.15	1.90	1327.	8.06	19.31
3	-	33.29	0.84	579.	1.75	4.01
4	-	32.32	0.97	695.	2.90	6.53
5	-	32.72	0.83	578.	1.93	4.36
6	-	28.23	1.00	731.	2.84	6.59
7	-	31.37	1.31	925.	3.59	8.46
8	-	29.98	1.19	829.	2.47	6.00
9	-	32.94	1.24	901.	2.30	5.65
10	-	34.47	1.00	706.	1.75	4.16
11	-	39.82	1.15	808.	2.05	5.01
12	-	45.25	1.02	725.	2.58	6.02
1981	-	385.88	1.10	776.	2.70	6.36

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1982 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	46.96	0.94	672.	2.42	5.64
2	-	22.81	1.05	728.	1.91	4.63
3	-	40.12	0.88	627.	1.75	4.02
4	-	35.14	1.00	686.	1.85	4.39
5	-	36.87	0.83	609.	1.82	4.20
6	-	42.39	0.80	581.	1.53	3.50
7	-	33.72	1.10	824.	3.44	8.24
8	-	41.10	1.42	1055.	5.61	13.46
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1983 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	0.92	663.	2.98	6.48
2	-	-	0.94	687.	4.07	8.44
3	-	-	-	-	-	-
4	-	-	0.97	679.	3.46	7.39
5	-	-	0.99	701.	3.60	7.81
6	-	-	0.99	717.	3.20	7.23
7	-	-	1.07	786.	3.43	7.90
8	-	-	1.73	1216.	8.55	18.51
9	-	-	1.16	811.	3.81	8.41
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1983	-	-	-	-	-	-

LOCATION : EB03 : WADI PS				YEAR : 1980		CODE : 11	
Q = 7.632 - (1.140) * H ; GCAP =				4.269 HAV =		2.950	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	25.26	20.62	1.18	842.	2.16	5.26	
2	20.91	14.65	1.18	830.	1.92	4.82	
3	44.58	33.26	1.15	811.	2.41	5.99	
4	42.31	30.52	1.13	809.	3.14	7.47	
5	53.27	39.45	0.87	591.	2.43	5.12	
6	59.44	39.69	0.97	685.	2.12	5.07	
7	61.99	40.70	1.03	739.	3.45	7.76	
8	62.06	43.39	1.05	697.	3.08	6.97	
9	58.74	42.70	0.95	655.	2.28	5.17	
10	51.43	36.32	1.09	782.	1.82	4.62	
11	53.26	39.53	1.21	878.	1.85	4.77	
12	42.08	32.90	1.27	869.	2.58	6.34	
1980	575.33	413.74	1.07	753.	2.43	5.80	

LOCATION : EB03 : WADI PS				YEAR : 1981		CODE : 11	
Q = 7.632 - (1.140) * H ; GCAP = 4.269				HAV = 2.950			
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	28.88	21.06	1.14	811.	2.90	6.91	
2	14.62	10.43	1.31	910.	2.97	7.51	
3	46.38	33.36	0.83	569.	2.47	5.40	
4	43.20	28.20	1.02	742.	2.69	6.33	
5	42.35	30.02	1.05	730.	2.38	5.64	
6	55.00	41.38	1.68	1056.	2.77	6.99	
7	65.06	50.52	0.86	604.	1.56	3.67	
8	56.82	40.76	1.09	735.	2.30	5.57	
9	57.76	40.67	1.09	757.	2.72	6.43	
10	58.70	42.46	1.14	814.	2.52	6.09	
11	58.56	42.53	1.15	809.	2.25	5.33	
12	57.60	35.97	1.08	756.	3.05	7.09	
1981	584.93	417.36	1.11	766.	2.47	5.89	

LOCATION : EB03 : WADI PS				YEAR : 1982		CODE : 11	
Q = 7.632 - (1.140) * H ; GCAP =				4.269 HAV =		2.950	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	31.58	22.55	0.89	618.	2.08	4.76	
2	7.01	5.02	1.91	1426.	2.37	6.91	
3	39.60	28.32	0.93	638.	1.59	3.81	
4	46.72	32.93	0.98	699.	2.02	4.87	
5	46.63	32.71	0.89	660.	2.30	5.29	
6	51.98	36.22	0.83	611.	2.22	5.00	
7	63.06	39.99	0.94	679.	2.85	6.53	
8	50.19	35.79	1.17	840.	3.89	9.10	
9	58.19	40.91	1.08	712.	3.56	7.94	
10	36.27	24.95	1.12	787.	2.57	6.25	
11	37.11	29.14	0.99	712.	3.07	6.85	
12	44.10	33.15	-	-	-	-	
1982	512.44	361.67	-	-	-	-	

LOCATION : EB03 : WADI PS				YEAR : 1983		CODE : 11	
Q = 7.632 - (1.140) * H ; GCAP =				4.269 HAV =		2.950	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	28.38	20.67	0.87	612.	1.66	3.78	
2	7.09	5.03	-	-	-	-	
3	31.48	22.46	1.00	709.	3.26	7.07	
4	37.93	27.05	0.94	642.	2.95	6.06	
5	35.30	28.34	1.22	817.	3.65	8.04	
6	51.36	37.15	1.31	948.	5.27	11.62	
7	54.55	39.88	1.23	912.	5.16	11.59	
8	63.03	45.63	1.22	838.	4.88	10.77	
9	68.31	50.32	1.08	758.	3.34	7.21	
10	54.89	42.58	1.05	758.	1.96	4.60	
11	40.39	31.99	-	-	-	-	
12	44.62	34.00	0.92	639.	2.02	4.46	
1983	517.33	385.10	-	-	-	-	

LOCATION : EB04 : WADI RAILWAY BRIDGE YEAR : 1982 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	1.12	828.	2.67	4.47
4	-	-	1.07	779.	2.25	5.50
5	-	-	1.05	771.	3.06	7.18
6	-	-	1.08	833.	3.96	9.24
7	-	-	1.17	926.	4.25	10.27
8	-	-	1.27	992.	4.98	11.82
9	-	-	1.35	1029.	5.37	12.67
10	-	-	1.14	846.	2.52	6.25
11	-	-	1.05	771.	2.95	6.93
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EB4A : BILBEIS DRAIN AT WADI YEAR : 1980 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	1.36	989.	1.96	5.30
4	-	-	1.13	793.	2.65	6.13
5	-	-	1.04	724.	2.12	4.89
6	-	-	1.02	762.	2.10	5.23
7	-	-	1.24	942.	2.91	7.38
8	-	-	1.04	774.	2.41	5.87
9	-	-	1.08	794.	2.39	5.82
10	-	-	1.12	849.	2.56	6.40
11	-	-	1.28	972.	2.57	6.65
12	-	-	1.48	1041.	3.60	8.91
1980	-	-	-	-	-	-

LOCATION : EB4A : BILBEIS DRAIN AT WADI YEAR : 1981 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	1.14	800.	3.70	8.34
2	-	-	1.11	791.	4.67	9.35
3	-	-	1.08	795.	2.69	7.05
4	-	-	1.09	820.	2.84	7.10
5	-	-	1.10	830.	3.08	7.57
6	-	-	1.25	959.	3.25	8.24
7	-	-	1.22	942.	2.76	6.96
8	-	-	1.11	802.	2.22	5.51
9	-	-	1.03	723.	2.14	5.20
10	-	-	1.11	806.	2.46	6.01
11	-	-	1.17	849.	2.73	6.66
12	-	-	1.18	867.	3.26	7.97
1981	-	-	1.13	832.	2.92	7.13

LOCATION : EB4A : BILBEIS DRAIN AT WADI YEAR : 1982 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	1.21	870.	3.80	9.04
2	-	-	1.33	965.	3.68	9.06
3	-	-	1.14	839.	2.59	6.43
4	-	-	1.09	807.	2.37	5.88
5	-	-	1.14	890.	3.47	8.48
6	-	-	1.15	865.	3.71	8.82
7	-	-	1.21	934.	4.22	9.91
8	-	-	1.45	1124.	5.71	13.50
9	-	-	1.33	1024.	5.07	12.15
10	-	-	1.25	954.	3.56	8.86
11	-	-	1.11	838.	3.55	8.44
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EB4A : BILBEIS DRAIN AT WADI YEAR : 1983 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	1.12	837.	3.47	8.20
2	-	-	-	-	-	-
3	-	-	1.27	907.	4.29	10.10
4	-	-	1.31	850.	4.09	9.10
5	-	-	1.48	977.	5.14	11.70
6	-	-	1.94	1256.	5.14	12.32
7	-	-	1.76	1198.	5.44	12.85
8	-	-	1.30	914.	4.72	11.06
9	-	-	1.22	879.	3.58	8.19
10	-	-	1.34	974.	3.56	8.37
11	-	-	-	-	-	-
12	-	-	1.08	733.	2.49	5.73
1983	-	-	-	-	-	-

LOCATION : EB4B : GALLYUBIA DRAIN AT WADI YEAR : 1980 CODE : 24							
MONTH	DISCHARGE 10**6 M3	EC	TDS				
	MOI	DRI	MMHO/CM	PPM	SAR	ADJ SAR	
1	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
3	-	-	1.34	1001.	2.32	6.21	-
4	-	-	1.14	837.	3.23	7.92	-
5	-	-	1.03	711.	2.58	5.78	-
6	-	-	1.14	810.	2.68	6.42	-
7	-	-	1.23	924.	3.43	8.46	-
8	-	-	0.91	635.	1.73	4.03	-
9	-	-	0.97	692.	1.72	4.17	-
10	-	-	1.09	827.	2.00	3.05	-
11	-	-	1.35	1014.	2.32	6.09	-
12	-	-	1.40	1057.	4.18	10.34	-
1980	-	-	-	-	-	-	-

LOCATION : EB4B : GALLYUBEYA DRAIN AT WADI YEAR : 1981 CODE : 24							
MONTH	DISCHARGE 10**6 M3	EC	TDS				
	MOI	DRI	MMHO/CM	PPM	SAR	ADJ SAR	
1	-	-	1.10	785.	4.28	9.47	-
2	-	-	0.93	489.	2.54	6.16	-
3	-	-	1.15	848.	3.32	8.06	-
4	-	-	1.12	828.	3.03	7.36	-
5	-	-	1.10	823.	3.08	7.44	-
6	-	-	1.35	1030.	4.20	10.40	-
7	-	-	1.54	1114.	4.87	11.94	-
8	-	-	1.16	815.	2.51	6.22	-
9	-	-	1.05	737.	1.91	4.65	-
10	-	-	1.09	772.	1.62	3.94	-
11	-	-	1.14	828.	2.66	6.45	-
12	-	-	1.12	821.	2.68	6.87	-
1981	-	-	1.15	842.	3.05	7.38	-

LOCATION : EB4B : GALLYUBIA DRAIN AT WADI YEAR : 1982 CODE : 24							
MONTH	DISCHARGE 10**6 M3	EC	TDS				
	MOI	DRI	MMHO/CM	PPM	SAR	ADJ SAR	
1	-	-	1.17	852.	2.69	6.64	-
2	-	-	1.58	1102.	3.13	8.08	-
3	-	-	1.24	885.	2.58	6.45	-
4	-	-	1.08	783.	2.26	5.49	-
5	-	-	1.09	821.	2.74	6.72	-
6	-	-	1.01	742.	2.58	6.11	-
7	-	-	1.17	870.	3.69	8.64	-
8	-	-	1.40	1083.	5.21	12.20	-
9	-	-	1.24	943.	4.49	10.69	-
10	-	-	1.21	905.	3.44	8.36	-
11	-	-	1.01	734.	2.74	6.28	-
12	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-

LOCATION : EB4B : GALLYUBIA DRAIN AT WADI YEAR : 1983 CODE : 24							
MONTH	DISCHARGE 10**6 M3	EC	TDS				
	MOI	DRI	MMHO/CM	PPM	SAR	ADJ SAR	
1	-	-	1.02	718.	2.97	6.48	-
2	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-
4	-	-	1.22	806.	4.49	9.15	-
5	-	-	1.29	892.	3.87	9.18	-
6	-	-	1.20	862.	3.73	8.80	-
7	-	-	1.21	886.	3.66	8.71	-
8	-	-	1.16	861.	3.54	8.42	-
9	-	-	1.10	785.	2.78	6.43	-
10	-	-	1.07	779.	2.02	4.79	-
11	-	-	-	-	-	-	-
12	-	-	1.04	719.	2.21	5.10	-
1983	-	-	-	-	-	-	-

LOCATION : EB05 : SAADA BRIDGE YEAR : 1980 CODE : 21
Q = 132.127 - 19.439* HM ; R2 = [0.850]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	69.56	1.20	873.	2.23	5.70
2	-	63.35	1.16	837.	1.86	4.73
3	-	73.15	1.24	918.	1.93	5.16
4	-	65.67	1.10	797.	2.58	6.26
5	-	70.84	1.00	696.	1.74	4.10
6	-	74.13	0.99	699.	2.11	5.00
7	-	92.78	0.98	739.	3.29	7.79
8	-	87.89	0.96	683.	2.25	5.41
9	-	91.40	0.99	709.	2.01	4.92
10	-	118.07	1.08	799.	2.70	6.07
11	-	84.90	1.79	1437.	5.71	15.02
12	-	85.10	1.37	1032.	3.28	8.51
1980	-	976.84	1.15	852.	2.68	6.68

LOCATION : EB05 : SAADA BRIDGE YEAR : 1981 CODE : 21
Q = 132.127 - 19.159* HM ; R2 = [0.850]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	58.74	1.06	755.	3.27	7.54
2	-	60.96	0.87	611.	2.66	5.94
3	-	80.05	1.01	733.	3.50	7.99
4	-	85.67	1.04	767.	3.21	7.55
5	-	86.91	1.04	784.	3.24	7.69
6	-	77.64	1.35	981.	4.14	10.12
7	-	80.20	1.24	897.	3.36	8.08
8	-	88.12	1.05	741.	2.19	5.30
9	-	93.29	1.05	747.	2.28	5.53
10	-	-	-	-	-	-
11	-	88.73	1.11	806.	2.22	5.43
12	-	-	-	-	-	-
1981	-	-	-	-	-	-

LOCATION : EB05 : SAADA BRIDGE YEAR : 1982 CODE : 21
Q = 132.127 - 19.459* HM ; R2 = [0.850]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	75.61	0.95	675.	1.83	4.41
4	-	63.54	1.01	711.	2.22	5.21
5	-	73.14	0.96	719.	2.28	5.54
6	-	71.83	0.93	687.	2.15	5.15
7	-	71.69	1.01	791.	2.69	6.62
8	-	80.39	1.10	826.	3.16	7.65
9	-	80.35	1.12	839.	4.52	10.34
10	-	82.72	1.05	775.	3.25	7.69
11	-	78.72	1.05	772.	3.14	7.33
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EB05 : SAADA BRIDGE YEAR : 1983 CODE : 21
Q = 132.127 - 19.459* HM ; R2 = [0.850]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	27.63	1.16	776.	3.26	7.40
6	-	25.70	1.08	768.	3.30	7.57
7	-	28.86	1.07	804.	3.74	8.57
8	-	-	-	-	-	-
9	-	29.46	0.97	699.	3.07	6.57
10	-	23.67	0.98	669.	1.86	4.27
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1983	-	-	-	-	-	-

LOCATION : EBO6 : SAADA PS				YEAR : 1980	CODE : 11			
Q = 0.735 - (0.000) * H ; GCAP =				0.735	HAV =	0.450		
!	DISCHARGE	10**6 M3	!	EC	!	TDS	!	
MONTH!	MDI	!	DRI	!	MMHO/CM	!	PPM	!
							SAR	!
							ADJ	SAR
1	1.03	1.22	1.34	973.	3.01	7.64		
2	0.59	0.61	1.30	934.	2.05	5.45		
3	1.51	1.84	1.35	970.	1.93	5.12		
4	1.34	1.69	1.57	1073.	3.94	9.39		
5	1.52	1.93	1.20	804.	2.85	6.58		
6	1.42	2.00	1.12	791.	2.79	6.64		
7	1.89	2.07	1.50	1001.	5.04	11.98		
8	3.02	2.43	2.39	1463.	11.03	24.51		
9	3.41	2.69	1.27	865.	3.74	8.89		
10	2.99	2.37	1.60	1249.	5.05	12.96		
11	2.55	2.01	1.76	1316.	3.79	10.24		
12	2.73	2.15	1.89	1339.	4.10	10.39		
1980	24.00	23.01	1.56	1083.	4.24	10.50		

LOCATION : EBO6 : SAADA PS				YEAR : 1981		CODE : 11	
Q = 0.735 - (0.000) * H ; GCAP = 0.735 HAV = 0.450							
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	2.34	1.84	1.30	874.	3.79	8.75	
2	2.15	1.70	1.15	764.	4.10	9.23	
3	3.06	2.01	1.21	793.	3.45	8.04	
4	2.61	1.79	1.36	971.	2.85	7.28	
5	2.61	2.08	1.06	746.	2.18	5.32	
6	3.11	2.46	1.38	1017.	3.67	9.01	
7	3.74	2.96	1.67	1257.	4.96	12.12	
8	4.94	3.90	1.30	862.	2.98	7.20	
9	4.09	3.23	1.19	805.	2.78	6.71	
10	4.02	3.19	1.31	901.	3.32	7.97	
11	3.82	3.01	1.20	839.	2.52	6.04	
12	3.19	2.52	1.14	793.	2.93	7.00	
1981	39.68	30.69	1.28	892.	3.26	7.85	

LOCATION : EBO6 : SAADA PS				YEAR : 1982		CODE : 11	
Q = 0.735 - (0.000) * H ; GCAP = 0.735				HAV = 0.450			
MONTH	DISCHARGE	10**6 M3	EC	TDS			
	MDI	DRI	MMHO/CM	PPM	SAR	ADJ SAR	
1	2.63	2.10	1.28	852.	3.87	9.11	
2	1.73	1.34	1.73	1162.	3.60	9.39	
3	2.49	1.98	1.17	810.	2.48	6.04	
4	3.33	2.63	0.96	659.	2.23	5.13	
5	3.71	2.94	1.07	767.	2.79	6.68	
6	3.21	2.35	1.13	807.	2.93	6.94	
7	3.92	3.12	1.21	873.	3.89	9.30	
8	4.55	3.58	1.14	813.	4.10	9.51	
9	3.82	3.02	1.47	1045.	4.94	11.86	
10	4.36	3.45	1.12	795.	3.91	8.81	
11	3.71	2.90	1.34	938.	4.23	9.70	
12	3.56	2.87	-	-	-	-	
1982	41.04	32.27	-	-	-	-	

LOCATION : EBO6 : SAADA PS				YEAR : 1983		CODE : 11					
Q = 0.735 - (0.000) * H ; GCAP =				0.735 HAV =		0.450					

!	DISCHARGE	10**6 M3	!	EC	!	TDS	!				
MONTH!	MDI	!	DRI	!	MMHO/CM	!	PPM	!			
							SAR	!			
								ADJ SAR	!		
1	2.85		2.25		1.43		902.		3.90		8.83
2	2.03		1.59		-		-		-		-
3	3.12		2.46		1.35		923.		4.69		10.58
4	2.77		2.32		1.38		898.		4.33		9.41
5	3.12		2.47		1.20		852.		3.96		9.13
6	3.36		2.68		1.18		837.		3.10		7.30
7	4.06		3.34		1.10		793.		3.62		8.30
8	3.79		3.00		1.18		813.		3.13		7.31
9	3.12		2.47		1.12		769.		3.34		7.10
10	3.12		2.47		1.08		757.		2.14		4.82
11	2.01		1.59		-		-		-		-
12	2.55		1.99		1.03		701.		2.63		5.88

1983	35.90		28.63		-		-		-		-

LOCATION : EB07 : SAUD BRIDGE YEAR : 1980 CODE : 21
Q = 69.688 - 18.683* HM ; R2 = [0.640]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	84.38	1.26	903.	3.03	7.58
2	-	74.83	1.55	1064.	4.41	10.93
3	-	82.42	1.29	950.	2.42	6.37
4	-	74.68	1.18	822.	3.21	7.37
5	-	70.07	1.09	760.	2.77	6.43
6	-	76.21	1.04	731.	2.33	5.64
7	-	84.11	1.14	766.	3.93	8.79
8	-	-	-	-	-	-
9	-	92.31	1.06	748.	2.86	6.77
10	-	92.14	1.11	789.	1.99	4.90
11	-	86.24	1.33	994.	2.81	7.12
12	-	94.51	1.43	1062.	3.48	8.76
1980	-	-	-	-	-	-

LOCATION : EB07 : SAUD BRIDGE YEAR : 1981 CODE : 21
Q = 69.688 - 18.683* HM ; R2 = [0.640]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	62.21	1.23	862.	3.51	8.16
2	-	56.51	1.01	684.	3.88	8.44
3	-	79.10	1.11	793.	2.87	6.79
4	-	83.67	1.10	811.	3.32	8.00
5	-	87.07	0.99	731.	2.75	6.50
6	-	75.90	1.06	773.	2.18	5.41
7	-	80.08	1.13	826.	2.92	7.02
8	-	91.50	1.18	813.	2.37	5.84
9	-	96.04	1.23	887.	2.11	5.26
10	-	97.63	1.14	822.	2.61	6.36
11	-	91.81	1.15	817.	2.75	6.57
12	-	-	-	-	-	-
1981	-	-	-	-	-	-

LOCATION : EB07 : SAUD BRIDGE YEAR : 1982 CODE : 21
Q = 69.688 - 18.683* HM ; R2 = [0.640]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	94.47	1.15	798.	1.91	4.59
4	-	86.25	1.11	789.	2.39	5.92
5	-	88.54	1.06	760.	2.57	6.24
6	-	81.05	1.05	768.	2.84	6.74
7	-	84.32	1.12	874.	3.69	8.97
8	-	93.33	1.13	889.	4.74	11.11
9	-	90.35	1.17	868.	4.56	10.39
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EB07 : SAUD BRIDGE YEAR : 1983 CODE : 21
Q = 69.688 - 18.683* HM ; R2 = [0.640]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	78.65	1.09	760.	3.73	8.11
6	-	76.88	1.19	857.	4.02	9.18
7	-	-	-	-	-	-
8	-	89.91	1.30	929.	4.57	10.86
9	-	86.93	1.10	800.	3.05	6.98
10	-	86.19	1.10	759.	2.40	5.62
11	-	-	-	-	-	-
12	-	87.38	1.02	692.	2.65	5.72
1983	-	-	-	-	-	-

LOCATION : EBOB : SAHR BAGAR BRIDGE YEAR : 1980 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	96.74	1.50	1102	2.03	5.45
2	-	81.63	1.55	1125	2.77	7.31
3	-	72.98	1.27	954	2.48	6.49
4	-	89.24	1.23	899	2.89	7.30
5	-	61.23	1.11	755	2.23	5.26
6	-	75.03	1.10	769	2.94	7.01
7	-	96.37	1.14	810	3.96	9.33
8	-	106.37	1.11	795	2.56	6.09
9	-	92.09	1.10	786	2.66	6.43
10	-	75.98	1.13	808	2.25	5.69
11	-	88.99	1.32	973	2.20	5.70
12	-	93.51	1.45	1116	4.07	10.13
1980	-	1030.16	1.26	912	2.73	6.85

LOCATION : EBOB : SAHR BAGAR BRIDGE YEAR : 1981 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	83.50	1.17	840	3.86	8.84
2	-	68.25	1.15	786	3.16	7.48
3	-	101.82	1.08	768	3.06	7.23
4	-	81.57	1.37	1044	4.98	11.81
5	-	80.21	1.10	810	2.65	6.90
6	-	55.93	1.07	754	1.10	2.77
7	-	99.10	-	-	-	-
8	-	107.05	1.07	732	2.99	7.02
9	-	92.64	1.05	735	2.61	6.20
10	-	88.96	1.16	827	3.13	7.42
11	-	103.12	1.19	827	2.57	6.20
12	-	113.77	1.24	901	3.26	7.87
1981	-	1075.93	-	-	-	-

LOCATION : EBOB : SAHR BAGAR BRIDGE YEAR : 1982 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	99.75	1.21	839	2.98	7.25
2	-	79.80	1.30	936	2.78	7.11
3	-	100.91	1.17	845	2.64	6.44
4	-	72.62	1.36	993	3.82	9.49
5	-	83.02	1.12	803	3.12	7.49
6	-	82.54	1.14	823	3.52	8.30
7	-	87.17	1.22	932	4.36	10.54
8	-	110.97	1.23	924	4.47	10.69
9	-	104.88	1.32	991	4.75	11.31
10	-	92.07	1.36	1003	2.81	6.95
11	-	93.81	1.05	750	2.90	6.63
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EBOB : SAHR BAGAR BRIDGE YEAR : 1983 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	85.95	1.19	796	4.46	9.58
5	-	96.09	1.43	963	4.84	10.74
6	-	108.55	1.29	911	4.61	10.42
7	-	116.34	1.24	907	4.27	9.89
8	-	111.00	1.29	952	5.37	12.09
9	-	109.04	1.07	757	3.30	7.26
10	-	113.16	1.17	779	2.07	4.97
11	-	-	-	-	-	-
12	-	116.29	1.02	683	2.43	5.28
1983	-	-	-	-	-	-

LOCATION : EB09 : BAHR BAGAR IRR PS YEAR : 1980 CODE : 11
Q = 0.364 - (0.000) * H ; GCAP = 0.364 HAV = 2.600

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	7.65	3.34	1.36	960.	3.03	7.63
2	5.78	2.52	1.27	905.	3.06	7.55
3	8.15	3.56	1.21	887.	2.10	5.48
4	8.49	3.71	1.23	807.	2.96	6.77
5	8.39	3.67	1.18	794.	2.76	6.26
6	8.18	3.57	1.11	769.	1.89	4.60
7	9.25	4.04	1.12	812.	3.02	7.28
8	9.24	4.03	1.09	784.	2.57	6.07
9	8.33	3.64	0.96	672.	2.31	5.33
10	8.23	3.59	1.02	729.	2.15	5.20
11	8.87	3.87	1.20	894.	2.20	5.66
12	6.86	3.00	1.06	786.	3.62	8.15
1980	97.42	42.55	1.15	814.	2.59	6.28

LOCATION : EB09 : BAHR BAGAR IRR PS YEAR : 1981 CODE : 11
Q = 0.364 - (0.000) * H ; GCAP = 0.364 HAV = 2.600

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	8.81	3.85	0.90	629.	3.27	6.83
2	6.10	2.67	1.18	806.	3.69	8.58
3	7.74	3.33	1.09	745.	3.45	7.91
4	7.42	3.26	0.86	601.	2.52	5.59
5	7.76	3.36	0.99	714.	3.13	7.09
6	6.98	3.02	1.46	997.	2.87	7.26
7	7.63	3.33	1.58	926.	1.70	4.26
8	9.05	3.92	1.14	757.	2.25	5.42
9	7.91	3.44	1.00	705.	2.10	4.94
10	7.36	3.21	1.01	707.	2.22	5.15
11	7.90	3.45	1.16	812.	2.79	6.57
12	7.26	3.17	0.90	640.	2.41	5.30
1981	91.92	40.03	1.10	750.	2.61	6.11

LOCATION : EB09 : BAHR BAGAR IRR PS YEAR : 1982 CODE : 11
Q = 0.364 - (0.000) * H ; GCAP = 0.364 HAV = 2.600

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	7.23	3.15	1.13	785.	2.59	6.27
2	4.13	1.80	1.49	1050.	2.49	6.61
3	6.89	2.96	0.95	670.	1.89	4.44
4	6.13	2.70	1.35	924.	3.14	7.75
5	6.43	2.81	1.09	799.	3.16	7.60
6	6.54	2.85	1.09	786.	2.91	6.90
7	8.99	3.93	0.83	639.	2.81	6.33
8	8.81	3.85	0.63	457.	2.16	4.37
9	7.41	3.17	1.01	719.	3.32	7.37
10	7.75	3.51	0.63	444.	1.76	3.62
11	7.45	3.17	0.79	551.	2.32	4.86
12	7.33	3.20	-	-	-	-
1982	85.09	37.11	-	-	-	-

LOCATION : EB09 : BAHR BAGAR IRR PS YEAR : 1983 CODE : 11
Q = 0.364 - (0.000) * H ; GCAP = 0.364 HAV = 2.600

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	7.08	3.09	0.91	630.	1.92	4.37
2	5.48	2.39	-	-	-	-
3	6.71	2.93	0.86	585.	3.04	6.15
4	7.30	3.19	0.75	486.	2.39	4.71
5	8.03	3.51	1.07	762.	3.26	7.17
6	7.85	3.43	1.02	715.	2.67	6.01
7	8.81	3.73	1.09	786.	3.61	8.10
8	8.96	3.92	1.00	689.	4.09	8.70
9	8.04	3.51	1.03	742.	3.39	7.52
10	9.23	4.03	1.08	765.	2.46	5.73
11	7.50	3.27	-	-	-	-
12	8.47	3.70	0.97	657.	2.11	4.79
1983	93.46	40.69	-	-	-	-

LOCATION : EB10 : BAHR BAGAR DRAINAGE PS YEAR : 1980 CODE : 11
 $Q = 6.112 - (0.000) * H$; QCAP = 6.112 HAV = 1.590

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	22.93	18.20	6.37	3767.	12.53	32.34
2	12.69	10.34	5.66	3353.	13.29	35.12
3	16.55	13.49	6.85	4029.	14.91	40.76
4	17.65	14.54	4.91	2942.	11.84	31.50
5	15.49	13.05	6.67	3831.	14.96	36.54
6	14.39	11.73	8.65	5150.	14.15	40.70
7	13.97	11.16	8.65	5504.	18.22	50.75
8	22.97	18.20	6.12	3782.	13.32	34.84
9	28.30	23.63	5.15	3208.	12.26	31.22
10	28.32	24.60	5.05	3171.	11.36	31.05
11	27.27	22.22	5.88	3869.	11.72	32.81
12	28.73	23.41	6.14	4209.	14.35	37.19
1980	249.46	204.56	6.13	3811.	13.28	35.55

LOCATION : EB10 : BAHR BAGAR DRAINAGE PS YEAR : 1981 CODE : 11
 $Q = 6.112 - (0.000) * H$; QCAP = 6.112 HAV = 1.590

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	23.63	19.25	4.86	3122.	12.43	31.28
2	10.61	8.65	6.47	3925.	11.05	31.21
3	16.98	13.84	5.96	3555.	12.02	31.23
4	18.87	15.38	4.41	2687.	9.64	24.30
5	14.91	11.97	5.49	3248.	10.78	28.03
6	11.92	9.75	6.43	4351.	14.50	38.83
7	15.51	12.23	5.05	3478.	15.13	38.99
8	23.97	19.21	4.46	2536.	8.05	21.08
9	23.89	19.47	4.03	2276.	5.64	15.12
10	23.95	19.52	3.67	2180.	8.32	20.68
11	21.00	17.12	5.95	3567.	12.03	31.03
12	22.49	18.35	5.93	3594.	10.02	26.57
1981	227.33	184.74	5.06	3091.	10.34	26.95

LOCATION : EB10 : BAHR BAGAR DRAINAGE PS YEAR : 1982 CODE : 11
 $Q = 6.112 - (0.000) * H$; QCAP = 6.112 HAV = 1.590

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	19.71	16.06	7.08	4199.	11.27	30.81
2	11.39	9.29	9.35	5840.	15.09	43.28
3	15.26	12.39	4.85	2902.	10.23	26.15
4	15.36	12.52	5.46	3348.	10.91	28.47
5	13.60	13.60	6.23	3777.	12.17	32.20
6	13.62	13.62	7.43	4684.	13.94	37.79
7	17.23	17.43	6.40	4226.	13.94	38.17
8	23.85	23.85	5.69	3808.	15.79	40.74
9	20.18	20.68	4.98	3235.	15.11	38.36
10	24.22	24.23	2.93	1842.	8.50	20.33
11	25.67	25.68	4.99	3005.	11.42	28.01
12	24.77	24.78	-	-	-	-
1982	224.86	214.11	-	-	-	-

LOCATION : EB10 : BAHR BAGAR DRAINAGE PS YEAR : 1983 CODE : 11
 $Q = 6.112 - (0.000) * H$; QCAP = 6.112 HAV = 1.590

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	22.00	22.00	4.00	2327.	8.38	21.41
2	7.44	7.44	-	-	-	-
3	14.43	14.43	4.25	2589.	9.09	22.31
4	13.49	13.49	4.82	2807.	10.78	25.99
5	12.63	12.63	6.08	3619.	13.71	33.96
6	10.76	10.76	8.60	5604.	17.38	46.48
7	11.24	11.24	8.23	5548.	18.04	48.36
8	12.36	12.37	7.33	5028.	19.16	49.20
9	14.37	14.37	4.94	3300.	10.16	25.72
10	16.30	16.30	6.98	4480.	11.98	32.18
11	19.73	19.74	-	-	-	-
12	26.53	26.54	4.99	3263.	9.80	25.45
1983	181.28	181.31	-	-	-	-

LOCATION : EB11 : SAHR BAQAR OUTFALL YEAR : 1980 CODE : 24							
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	3.22	2121.	8.55	21.91	
2	-	-	3.15	2067.	8.30	21.17	
3	-	-	2.05	1410.	4.45	11.95	
4	-	-	2.21	1488.	6.32	16.13	
5	-	-	2.07	1390.	6.63	15.63	
6	-	-	2.52	1672.	6.30	17.02	
7	-	-	1.58	1099.	4.37	10.84	
8	-	-	1.44	1006.	2.93	7.21	
9	-	-	2.19	1420.	5.73	14.26	
10	-	-	1.88	1423.	5.06	13.15	
11	-	-	2.85	1901.	8.50	22.88	
12	-	-	2.54	1794.	7.49	18.90	
1980	-	-	2.31	1563.	6.27	16.11	

LOCATION : EB11 : SAHR BAQAR OUTFALL YEAR : 1981 CODE : 24							
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	3.23	2145.	9.59	24.26	
2	-	-	2.86	1769.	6.26	16.53	
3	-	-	2.61	1574.	6.29	15.90	
4	-	-	1.68	1109.	4.98	12.01	
5	-	-	1.51	1044.	4.54	10.94	
6	-	-	2.40	1597.	6.16	15.78	
7	-	-	1.50	1017.	3.12	7.83	
8	-	-	1.74	1102.	3.64	9.18	
9	-	-	1.92	1244.	3.52	9.01	
10	-	-	1.91	1237.	4.50	11.05	
11	-	-	2.28	1468.	5.74	14.04	
12	-	-	2.22	1462.	5.95	14.77	
1981	-	-	2.15	1395.	5.37	13.53	

LOCATION : EB11 : SAHR BAQAR OUTFALL YEAR : 1982 CODE : 24							
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	1.77	1119.	3.47	8.71	
2	-	-	3.16	1881.	6.80	17.84	
3	-	-	2.07	1316.	5.31	13.15	
4	-	-	1.99	1318.	4.94	12.45	
5	-	-	-	-	-	-	
6	-	-	2.23	1434.	5.79	14.26	
7	-	-	2.30	1592.	7.31	18.49	
8	-	-	2.25	1576.	8.42	20.30	
9	-	-	-	-	-	-	
10	-	-	1.51	1037.	4.65	11.08	
11	-	-	2.11	1332.	5.88	13.97	
12	-	-	-	-	-	-	
1982	-	-	-	-	-	-	

LOCATION : EB11 : SAHR BAQAR OUTFALL YEAR : 1983 CODE : 24							
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	2.12	1306.	5.69	13.23	
2	-	-	-	-	-	-	
3	-	-	-	-	-	-	
4	-	-	2.91	1695.	8.99	20.21	
5	-	-	2.14	1430.	6.34	18.99	
6	-	-	1.78	1265.	6.56	15.38	
7	-	-	1.80	1309.	6.58	15.68	
8	-	-	1.71	1218.	6.52	15.00	
9	-	-	2.01	1312.	4.96	11.83	
10	-	-	1.90	1266.	4.64	11.28	
11	-	-	-	-	-	-	
12	-	-	1.28	822.	2.66	6.11	
1983	-	-	-	-	-	-	

LOCATION : EB12 : BATIKH CANAL				YEAR : 1980	CODE : 24		
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	1.18	807.	2.93	7.00	
2	-	-	1.21	793.	2.56	6.03	
3	-	-	1.40	948.	2.71	6.88	
4	-	-	1.26	863.	4.82	11.02	
5	-	-	1.02	670.	4.06	8.01	
6	-	-	0.98	673.	1.41	3.29	
7	-	-	0.97	672.	3.71	8.07	
8	-	-	0.98	724.	3.34	7.21	
9	-	-	0.70	492.	2.25	4.44	
10	-	-	0.71	480.	0.76	2.12	
11	-	-	0.93	630.	1.60	3.67	
12	-	-	0.71	490.	1.29	2.85	
1980	-	-	1.00	688.	2.57	5.82	

LOCATION : EB12 : BATIKH CANAL				YEAR : 1981	CODE : 24		
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	0.84	585.	3.13	6.53	
2	-	-	1.13	755.	3.66	8.31	
3	-	-	1.12	760.	2.91	6.65	
4	-	-	0.60	431.	2.07	4.11	
5	-	-	0.72	518.	2.23	4.81	
6	-	-	1.03	708.	1.71	3.84	
7	-	-	0.67	452.	2.13	4.10	
8	-	-	0.69	452.	1.53	3.14	
9	-	-	0.81	551.	1.73	3.72	
10	-	-	0.82	560.	1.74	3.68	
11	-	-	0.87	605.	2.00	4.40	
12	-	-	0.70	478.	1.53	3.25	
1981	-	-	0.83	570.	2.16	4.67	

LOCATION : EB12 : BATIKH CANAL				YEAR : 1982	CODE : 24		
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	0.95	678.	2.82	6.41	
2	-	-	1.06	718.	2.44	5.61	
3	-	-	0.65	462.	1.54	3.22	
4	-	-	0.95	647.	2.30	5.16	
5	-	-	0.86	585.	1.58	3.60	
6	-	-	0.82	552.	1.75	3.85	
7	-	-	-	-	-	-	
8	-	-	0.58	388.	2.42	4.28	
9	-	-	0.88	605.	3.63	7.32	
10	-	-	0.67	469.	1.71	3.47	
11	-	-	0.63	447.	2.01	3.94	
12	-	-	-	-	-	-	
1982	-	-	-	-	-	-	

LOCATION : EB12 : BATIKH CANAL				YEAR : 1983	CODE : 24		
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	0.72	497.	2.07	4.25	
2	-	-	-	-	-	-	
3	-	-	-	-	-	-	
4	-	-	0.57	397.	1.19	2.51	
5	-	-	0.77	539.	2.48	5.24	
6	-	-	0.66	462.	2.72	5.33	
7	-	-	0.66	464.	2.46	4.94	
8	-	-	0.67	481.	2.09	4.38	
9	-	-	0.88	625.	2.74	5.94	
10	-	-	1.04	712.	3.57	7.81	
11	-	-	-	-	-	-	
12	-	-	0.79	531.	1.69	3.73	
1983	-	-	-	-	-	-	

LOCATION : EF01 : FARASUR PS				YEAR : 1982		CODE : 13	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	14.19	-	-	-	-	-	
2	7.55	-	-	-	-	-	
3	12.31	-	-	-	-	-	
4	14.35	-	2.62	1980.	7.16	17.10	
5	21.14	-	1.57	1033	4.56	10.57	
6	24.88	-	1.61	1069.	4.63	10.92	
7	34.55	-	1.63	1055.	5.62	13.15	
8	32.61	-	1.64	1164.	7.88	17.60	
9	25.89	-	1.96	1325.	7.86	18.05	
10	21.62	-	2.30	1458.	7.39	17.61	
11	19.54	-	2.63	1609.	7.91	18.73	
12	13.47	-	-	-	-	-	
1982	238.10	-	-	-	-	-	

LOCATION : EF01 : FARASUR PS				YEAR : 1983		CODE : 13	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	10.39	-	2.75	1604.	7.69	17.36	
2	8.94	-	-	-	-	-	
3	11.35	-	1.37	920.	4.81	10.32	
4	15.02	-	1.56	1027.	4.79	10.33	
5	19.61	-	2.44	1583.	9.18	20.35	
6	22.66	-	1.85	1261.	7.82	17.28	
7	29.38	-	1.50	1046.	6.85	14.92	
8	29.16	-	2.44	1656.	8.44	20.35	
9	29.50	-	2.04	1306.	7.01	15.60	
10	21.03	-	2.58	1552.	6.72	16.01	
11	18.38	-	-	-	-	-	
12	14.71	-	2.41	1423.	5.78	13.76	
1983	230.13	-	-	-	-	-	

LOCATION : EH01 : SAFT EL GIBLY BRIDGE YEAR : 1980 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE 10**6 M3 MOI	EC DRI	TDS MMHO/CM	SAR	ADJ SAR
1	-	-	-	-	-
2	-	-	-	-	-
3	-	27.32	1.19	821.	4.67
4	-	22.78	1.14	819.	8.09
5	-	18.49	0.98	640.	4.46
6	-	28.36	0.98	691.	4.83
7	-	32.00	1.16	822.	7.75
8	-	32.10	1.28	918.	7.15
9	-	34.73	1.26	874.	7.47
10	-	36.86	1.15	806.	5.64
11	-	26.22	1.48	1015.	7.85
12	-	31.01	1.48	1081.	9.79
1980	-	-	-	-	-

LOCATION : EH01 : SAFT EL GIBLY BRIDGE YEAR : 1981 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE 10**6 M3 MOI	EC DRI	TDS MMHO/CM	SAR	ADJ SAR
1	-	15.87	1.39	1011.	8.26
2	-	13.87	1.53	1028.	11.01
3	-	25.02	1.19	800.	8.48
4	-	20.19	1.21	839.	8.39
5	-	22.60	0.98	680.	6.09
6	-	24.41	1.12	806.	7.15
7	-	25.43	1.28	932.	8.94
8	-	32.49	1.27	866.	8.11
9	-	29.72	1.17	806.	6.81
10	-	22.65	1.05	709.	5.33
11	-	18.16	1.27	868.	6.94
12	-	24.24	1.22	853.	8.16
1981	-	274.64	1.21	840.	7.71

LOCATION : EH01 : SAFT EL GIBLY BRIDGE YEAR : 1982 CODE : 23
Q = 0.85 * WETTED CROSS SECTION * FLOAT VELOCITY

MONTH	DISCHARGE 10**6 M3 MOI	EC DRI	TDS MMHO/CM	SAR	ADJ SAR
1	-	30.61	1.12	739.	6.48
2	-	11.82	1.43	935.	7.20
3	-	27.92	0.98	668.	5.25
4	-	27.06	1.11	757.	6.34
5	-	24.76	0.97	662.	5.76
6	-	37.45	0.89	607.	4.44
7	-	37.73	1.17	848.	9.40
8	-	35.42	1.43	1046.	12.27
9	-	38.69	1.35	962.	11.34
10	-	39.42	1.06	733.	4.64
11	-	-	-	-	-
12	-	-	-	-	-
1982	-	-	-	-	-

LOCATION : EH01 : SAFT EL GIBLY BRIDGE YEAR : 1983 CODE : 24

MONTH	DISCHARGE 10**6 M3 MOI	EC DRI	TDS MMHO/CM	SAR	ADJ SAR
1	-	-	1.06	723.	6.16
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	1.50	921.	11.36
5	-	-	1.18	829.	9.03
6	-	-	1.22	885.	9.52
7	-	-	1.38	1018.	12.32
8	-	-	1.72	1141.	18.88
9	-	-	1.45	948.	10.71
10	-	-	1.20	833.	6.79
11	-	-	-	-	-
12	-	-	1.08	727.	5.17
1983	-	-	-	-	-

LOCATION : EH02 : HANUT PS YEAR : 1980 CODE : 11
 Q = 4.815 - (0.000) * H ; GCAP = 4.815 HAV = 2.320

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	11.29	9.71	1.31	1030.	4.01	9.67
2	9.94	8.35	2.24	1455.	5.59	13.88
3	22.44	19.54	1.32	880.	2.62	6.43
4	24.82	21.27	1.18	785.	3.84	6.62
5	51.49	21.13	0.96	659.	1.97	4.30
6	31.21	28.39	1.04	690.	1.49	3.45
7	31.28	27.60	1.23	824.	3.94	8.92
8	31.21	26.43	1.30	927.	2.96	7.11
9	31.80	25.36	1.21	841.	2.98	7.07
10	22.12	18.01	1.15	830.	2.54	6.26
11	15.34	11.91	1.56	1119.	3.62	9.32
12	13.82	11.25	1.52	1125.	4.07	9.68
1980	296.76	228.97	1.27	869.	3.05	7.23

LOCATION : EH02 : HANUT PS YEAR : 1981 CODE : 11
 Q = 4.815 - (0.000) * H ; GCAP = 4.815 HAV = 2.320

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	13.87	13.94	1.47	983.	4.98	11.39
2	12.27	10.64	2.80	1905.	10.07	25.87
3	27.12	23.70	1.21	744.	3.64	8.02
4	27.33	24.37	1.15	794.	3.68	8.22
5	23.28	20.21	0.96	650.	2.71	5.97
6	27.61	24.94	1.34	987.	4.34	10.02
7	31.98	28.12	2.00	1490.	7.31	16.87
8	30.37	25.34	1.52	1027.	3.70	8.90
9	32.61	26.54	1.33	897.	1.90	4.82
10	30.81	25.08	1.25	862.	2.85	6.79
11	24.03	19.69	1.44	974.	3.34	7.88
12	17.40	14.28	1.45	987.	3.89	9.27
1981	300.68	256.86	1.43	994.	4.10	9.65

LOCATION : EH02 : HANUT PS YEAR : 1982 CODE : 11
 Q = 4.815 - (0.000) * H ; GCAP = 4.815 HAV = 2.320

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	18.00	13.08	1.62	1069.	4.06	9.89
2	9.29	7.35	2.78	1849.	5.39	14.94
3	14.91	12.27	1.11	751.	2.31	5.47
4	32.83	18.74	1.17	793.	2.80	6.61
5	29.09	21.89	1.26	874.	2.73	6.66
6	32.99	29.02	1.04	719.	2.64	6.02
7	29.52	25.12	1.30	918.	4.73	10.70
8	29.22	25.05	1.44	1051.	5.79	13.32
9	31.99	26.37	1.38	995.	6.05	13.40
10	26.11	19.34	0.86	583.	2.55	5.51
11	6.20	4.28	1.37	925.	3.17	7.81
12	10.86	8.34	-	-	-	-
1982	271.03	212.84	-	-	-	-

LOCATION : EH02 : HANUT PS YEAR : 1983 CODE : 11
 Q = 4.815 - (0.000) * H ; GCAP = 4.815 HAV = 2.320

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	11.80	9.95	1.26	876.	3.49	8.02
2	6.25	5.03	-	-	-	-
3	20.81	16.66	1.33	892.	5.44	11.71
4	23.32	22.33	1.23	780.	5.32	11.18
5	22.80	19.38	1.34	876.	4.52	10.30
6	29.03	24.39	1.09	739.	3.69	8.19
7	21.13	17.25	1.55	1120.	4.19	10.44
8	28.42	23.11	1.70	1215.	7.57	16.67
9	32.34	25.62	1.23	854.	5.29	10.97
10	19.79	15.36	1.08	754.	2.78	6.38
11	8.56	8.16	-	-	-	-
12	6.53	5.17	1.21	820.	2.58	6.14
1983	230.80	192.39	-	-	-	-

LOCATION : EH03 : SADAKA PS YEAR : 1980 CODE : 11
 Q = 5.778 - (0.616) * H ; GCAP = 4.996 HAV = 1.270

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	6.30	6.58	4.63	2880.	8.05	21.41
2	4.08	4.21	4.60	2806.	7.91	21.67
3	8.32	8.40	2.59	1573.	4.81	12.78
4	8.49	8.93	2.19	1375.	5.52	12.91
5	7.83	8.42	2.31	1491.	3.54	8.48
6	8.03	8.31	2.32	1544.	5.57	13.71
7	10.93	10.74	2.44	1648.	7.83	19.09
8	14.40	13.71	2.47	1618.	7.34	18.14
9	16.18	14.91	2.09	1398.	5.24	13.03
10	14.08	14.71	2.44	1608.	6.54	16.79
11	10.84	10.12	2.96	2004.	8.04	21.05
12	11.54	11.06	2.72	1882.	7.11	17.16
1980	121.04	120.12	2.64	1724.	6.37	16.12

LOCATION : EH03 : SADAKA PS YEAR : 1981 CODE : 11
 Q = 5.778 - (0.616) * H ; GCAP = 4.996 HAV = 1.270

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	7.63	7.47	3.97	2649.	11.00	29.85
2	6.60	6.82	5.24	3143.	20.09	48.30
3	8.82	8.56	2.28	1323.	7.32	16.79
4	7.34	7.31	2.04	1309.	5.15	12.63
5	9.49	9.62	1.43	946.	4.04	9.32
6	7.63	7.83	1.78	1173.	3.38	8.58
7	11.93	11.22	3.09	1981.	5.34	14.27
8	15.19	14.00	2.32	1466.	5.44	13.75
9	17.01	15.05	2.25	1380.	5.24	12.95
10	14.06	12.78	2.07	1271.	5.30	12.40
11	9.43	9.23	2.60	1588.	5.86	14.11
12	9.77	9.43	2.42	1495.	5.11	12.39
1981	124.94	119.32	2.54	1583.	6.38	15.84

LOCATION : EH03 : SADAKA PS YEAR : 1982 CODE : 11
 Q = 5.778 - (0.616) * H ; GCAP = 4.996 HAV = 1.270

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	10.98	10.95	4.11	2438.	7.91	20.43
2	3.28	3.46	10.61	6601.	14.03	42.90
3	7.83	8.28	2.40	1488.	6.13	14.76
4	10.06	10.82	1.81	1160.	5.06	11.84
5	9.79	10.43	2.68	1735.	6.10	15.61
6	12.91	13.43	2.12	1379.	5.79	13.92
7	14.18	14.56	2.06	1396.	6.89	17.00
8	15.16	15.74	2.24	1550.	7.91	19.25
9	16.49	16.92	2.40	1562.	7.91	19.04
10	13.36	13.47	2.40	1508.	6.52	15.74
11	10.80	11.02	2.71	1676.	6.63	15.93
12	10.91	11.13	-	-	-	-
1982	135.75	142.25	-	-	-	-

LOCATION : EH03 : SADAKA PS YEAR : 1983 CODE : 11
 Q = 5.778 - (0.616) * H ; GCAP = 4.996 HAV = 1.270

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	10.44	10.78	1.73	1052.	4.89	10.63
2	3.17	3.29	-	-	-	-
3	7.94	8.00	2.91	1870.	9.18	20.89
4	8.10	8.26	2.77	1766.	9.08	20.61
5	10.42	10.48	1.71	1126.	7.23	13.90
6	9.83	9.80	1.23	793.	5.22	10.90
7	12.19	11.98	1.77	1193.	6.50	14.81
8	13.21	13.31	2.73	1824.	10.35	23.15
9	16.18	15.71	1.90	1286.	6.65	14.34
10	16.83	16.15	1.84	1221.	4.40	10.51
11	9.83	9.68	-	-	-	-
12	11.14	11.09	1.87	1131.	4.13	9.68
1983	129.34	128.54	-	-	-	-

LOCATION : EHO4 : NIZAM BRIDGE YEAR : 1980 CODE : 21
Q = 38.535 - 7.032* HM ; R2 = [0.970]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	7.11	1.76	1244.	4.99	12.17
2	-	11.08	1.45	1024.	3.50	8.25
3	-	11.27	1.27	879.	2.12	5.28
4	-	12.73	1.07	695.	3.33	7.27
5	-	15.38	0.98	641.	2.39	5.08
6	-	13.41	0.89	603.	2.43	5.21
7	-	22.63	1.02	709.	4.29	9.00
8	-	22.59	1.19	820.	3.01	6.92
9	-	25.84	1.26	855.	3.17	7.51
10	-	26.94	1.06	731.	2.23	5.40
11	-	21.60	1.49	1046.	3.08	7.78
12	-	19.93	1.57	1155.	4.96	11.67
1980	-	210.49	1.23	850.	3.22	7.51

LOCATION : EHO4 : NIZAM BRIDGE YEAR : 1981 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	1.64	1071.	6.44	14.44
2	-	-	1.16	753.	4.93	10.60
3	-	-	1.15	772.	3.75	8.48
4	-	-	1.32	901.	4.70	10.57
5	-	-	1.20	805.	4.16	9.29
6	-	-	1.22	860.	4.11	9.40
7	-	-	1.17	819.	3.10	7.27
8	-	-	1.28	873.	3.43	8.27
9	-	-	1.21	828.	3.37	7.77
10	-	-	-	-	-	-
11	-	-	1.46	978.	4.00	9.19
12	-	-	1.53	1013.	4.43	10.18
1981	-	-	-	-	-	-

LOCATION : EHO4 : NIZAM BRIDGE YEAR : 1982 CODE : 24

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	1.78	1186.	5.38	13.14
2	-	-	2.52	1614.	6.51	17.18
3	-	-	1.17	764.	2.74	6.36
4	-	-	1.44	991.	4.27	10.14
5	-	-	1.13	814.	4.06	9.32
6	-	-	1.09	760.	4.07	8.72
7	-	-	1.38	1000.	5.07	11.87
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	1.25	851.	4.43	9.88
11	-	-	1.10	724.	2.98	6.52
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EHO4 : NIZAM BRIDGE YEAR : 1983 CODE : 21
Q = 38.535 - 7.032* HM ; R2 = [0.970]

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	13.26	1.51	982.	6.23	13.32
4	-	12.41	2.12	1286.	8.51	18.05
5	-	19.23	1.34	889.	6.13	12.80
6	-	18.26	1.24	867.	5.39	11.54
7	-	22.26	1.30	927.	5.66	12.30
8	-	23.62	1.59	1137.	6.67	15.19
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1983	-	-	-	-	-	-

LOCATION : EH05 : NIZAM PS YEAR : 1980 CODE : 11
 Q = 4.269 - (0.618) * H ; GCAP = 3.707 HAV = 0.910

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR
1	5.02	6.60	1.79	1182.	5.02	11.89
2	4.50	5.11	1.37	903.	3.01	6.93
3	8.01	8.57	1.28	868.	2.92	7.05
4	10.27	11.13	1.02	695.	3.58	7.91
5	7.89	8.51	0.94	603.	2.65	5.49
6	8.64	9.40	1.08	771.	3.26	7.21
7	13.44	14.78	1.27	899.	4.57	10.45
8	18.01	16.84	1.25	842.	4.03	9.40
9	14.89	15.93	1.23	833.	3.92	9.20
10	11.63	12.44	1.18	793.	2.92	7.03
11	11.00	11.88	1.52	1031.	4.16	10.24
12	10.82	11.77	1.73	1122.	5.72	12.86
1980	124.12	132.95	1.29	872.	3.89	9.04

LOCATION : EH05 : NIZAM PS YEAR : 1981 CODE : 11
 Q = 4.269 - (0.618) * H ; GCAP = 3.707 HAV = 0.910

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR
1	7.74	8.34	1.67	1090.	5.71	12.93
2	6.31	7.09	1.39	883.	6.01	12.95
3	10.66	11.78	1.17	746.	3.48	7.72
4	9.37	10.28	1.45	983.	4.55	10.33
5	8.64	9.34	1.02	692.	3.61	7.74
6	7.51	8.04	1.78	1197.	7.15	16.17
7	11.99	12.98	1.73	1068.	7.36	15.40
8	13.96	14.48	1.30	801.	4.03	8.96
9	13.32	14.43	1.21	783.	3.19	7.35
10	13.08	13.99	1.28	849.	3.65	8.11
11	11.21	12.09	1.54	1002.	4.14	9.44
12	9.84	10.58	1.61	1060.	4.59	10.59
1981	123.63	133.42	1.42	917.	4.59	10.27

LOCATION : EH05 : NIZAM PS YEAR : 1982 CODE : 11
 Q = 4.269 - (0.618) * H ; GCAP = 3.707 HAV = 0.910

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR
1	11.00	11.80	2.11	1308.	5.77	13.91
2	4.60	4.97	4.20	2635.	7.82	22.48
3	9.32	9.96	1.44	930.	3.31	7.87
4	13.14	14.06	1.21	775.	3.10	6.99
5	12.06	12.76	1.10	724.	3.14	6.99
6	17.12	18.35	1.22	851.	4.43	9.93
7	18.62	19.92	1.43	1035.	5.29	12.22
8	19.23	20.29	-	-	-	-
9	19.52	20.80	-	-	-	-
10	18.41	19.37	1.17	813.	3.75	8.37
11	16.47	17.34	1.17	779.	3.68	7.85
12	16.51	16.64	-	-	-	-
1982	176.00	186.24	-	-	-	-

LOCATION : EH05 : NIZAM PS YEAR : 1983 CODE : 11
 Q = 4.269 - (0.618) * H ; GCAP = 3.707 HAV = 0.910

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR
1	15.13	15.59	1.13	738.	3.50	7.37
2	5.68	6.09	-	-	-	-
3	13.58	13.93	1.53	1015.	6.08	12.66
4	12.66	13.14	1.63	1077.	5.69	12.07
5	16.38	16.58	1.28	877.	5.37	11.70
6	14.46	15.09	1.37	952.	5.09	11.57
7	18.42	19.05	1.62	1141.	7.13	15.74
8	16.58	16.86	1.58	1049.	6.38	14.15
9	22.38	21.96	1.17	822.	4.34	9.20
10	20.93	19.98	1.36	954.	3.74	8.72
11	15.78	15.20	-	-	-	-
12	18.70	17.44	1.65	1085.	4.10	9.92
1983	190.68	190.91	-	-	-	-

LOCATION : EH06 : BANI EBEID PS YEAR : 1980 CODE : 11
 Q = 7.515 - (1.241) * H ; GCAP = 4.710 HAV = 2.260

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	15.82	13.96	2.78	1736.	5.91	14.92
2	9.40	8.77	2.48	1699.	6.44	15.66
3	16.69	14.73	1.76	1125.	3.08	7.74
4	16.61	14.66	2.22	1426.	5.37	13.99
5	15.61	13.77	2.08	1221.	3.07	7.33
6	15.09	13.96	1.99	1231.	4.48	10.93
7	22.61	19.97	2.14	1414.	7.25	17.36
8	25.43	22.49	2.07	1355.	5.18	12.82
9	24.81	20.57	1.84	1183.	4.71	11.22
10	22.25	19.63	1.83	1283.	5.06	12.75
11	18.68	16.44	2.43	1650.	6.99	17.85
12	19.82	17.49	2.59	1701.	6.20	15.08
1980	222.82	198.40	2.16	1402.	5.28	13.10

LOCATION : EH06 : BANI EBEID PS YEAR : 1981 CODE : 11
 Q = 7.515 - (1.241) * H ; GCAP = 4.710 HAV = 2.260

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	17.44	15.39	2.91	1805.	8.99	21.01
2	9.67	8.53	3.41	3470.	11.03	28.28
3	23.49	20.73	1.88	1112.	4.66	10.55
4	21.82	19.25	2.27	1403.	5.28	12.67
5	22.25	19.63	1.79	1117.	4.55	10.56
6	21.22	18.73	2.27	1516.	7.44	17.49
7	25.60	23.92	2.75	1748.	7.56	18.38
8	24.19	21.89	2.11	1298.	4.90	12.34
9	32.42	28.61	1.74	1062.	4.17	10.01
10	31.48	27.78	1.74	1098.	4.70	10.67
11	23.27	20.54	1.95	1221.	4.76	11.00
12	22.68	20.02	1.98	1254.	4.78	11.16
1981	275.53	245.03	2.22	1384.	5.76	13.69

LOCATION : EH06 : BANI EBEID PS YEAR : 1982 CODE : 11
 Q = 7.515 - (1.241) * H ; GCAP = 4.710 HAV = 2.260

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	23.09	20.35	2.20	1366.	5.34	12.74
2	7.76	7.81	5.54	3322.	8.02	23.47
3	20.23	20.37	1.86	1136.	3.93	9.35
4	20.81	21.04	1.90	1180.	3.92	9.43
5	18.36	18.48	2.45	1685.	6.78	16.61
6	29.00	29.37	2.00	1393.	6.82	15.60
7	38.35	38.50	1.76	1237.	5.41	12.83
8	43.24	44.59	1.87	1277.	6.34	15.01
9	41.80	42.07	2.06	1363.	6.82	16.20
10	37.10	36.42	1.56	998.	3.28	7.97
11	31.10	31.69	1.55	979.	3.80	8.71
12	29.93	28.65	-	-	-	-
1982	340.77	339.34	-	-	-	-

LOCATION : EH06 : BANI EBEID PS YEAR : 1983 CODE : 11
 Q = 7.515 - (1.241) * H ; GCAP = 4.710 HAV = 2.260

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	26.06	26.24	1.42	849.	3.31	7.25
2	6.86	6.56	-	-	-	-
3	20.18	18.31	2.10	1308.	6.44	14.58
4	19.73	17.85	2.10	1244.	6.28	13.54
5	17.68	16.04	2.02	1327.	6.69	15.09
6	21.19	19.22	1.38	979.	4.21	9.89
7	34.56	30.50	1.64	1071.	6.15	13.58
8	31.61	31.82	-	-	-	-
9	38.99	37.31	1.93	1284.	5.98	13.95
10	38.43	37.73	1.46	939.	3.42	7.83
11	24.25	25.01	-	-	-	-
12	29.03	26.34	1.56	1019.	3.79	8.89
1983	308.57	292.92	-	-	-	-

LOCATION : EH07 : ADD GASSABI PS				YEAR : 1980		CODE : 11	
Q = 6.008 - (0.000) * H ; QCAP =				6.008 HAV =		2.190	
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR	
1	25.19	20.18	2.85	1798.	4.78	12.25	
2	16.96	13.58	3.42	3336.	8.58	22.59	
3	25.49	20.42	2.22	1408.	4.09	10.66	
4	22.25	17.82	2.36	1491.	5.41	13.85	
5	23.63	18.93	2.17	1397.	5.21	11.84	
6	38.23	30.63	2.53	1586.	5.08	12.76	
7	48.00	38.46	2.64	1723.	7.64	18.49	
8	49.00	39.21	2.52	1609.	4.59	11.98	
9	56.62	40.55	2.45	1580.	5.64	14.30	
10	47.11	32.03	2.36	1544.	6.25	15.99	
11	30.06	24.72	2.58	1687.	5.49	14.42	
12	29.54	24.31	2.77	1850.	7.30	17.57	
1980	412.58	320.84	2.64	1688.	5.79	14.68	

LOCATION : EH07 : ADD GASSABI PS				YEAR : 1981		CODE : 11	
Q = 6.008 - (0.000) * H ; QCAP =				6.008 HAV =		2.190	
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR	
1	27.11	21.72	2.34	1489.	8.02	18.79	
2	13.88	11.12	2.93	1779.	6.81	17.47	
3	28.86	23.12	2.14	1262.	4.82	11.45	
4	26.19	20.98	2.21	1368.	5.29	12.72	
5	23.09	18.49	2.14	1348.	7.06	16.28	
6	36.15	28.96	2.83	1873.	8.73	21.09	
7	52.97	42.44	3.08	2044.	12.02	27.20	
8	55.76	44.66	2.79	1648.	6.05	15.30	
9	51.88	47.17	2.11	1300.	3.14	8.01	
10	49.06	39.30	1.83	1179.	4.05	9.53	
11	22.11	17.71	2.04	1281.	4.74	11.11	
12	22.11	17.71	2.36	1474.	5.85	13.88	
1981	409.17	333.39	2.41	1519.	6.20	14.97	

LOCATION : EH07 : ADD GASSABI PS				YEAR : 1982		CODE : 12	
Q = 6.008 - (0.000) * H ; QCAP =				6.008 HAV =		2.190	

MONTH	DISCHARGE	10**6 M3	EC	TDS			
	MDI	DRI	MMHQ/CM	PPM		SAR	ADJ SAR

1	24.94	19.98	3.33	1944.		7.33	18.29
2	8.30	6.65	10.02	5850.		14.40	42.63
3	22.71	18.19	2.10	1285.		4.60	11.09
4	20.30	16.26	2.15	1370.		5.02	12.31
5	19.95	15.98	3.10	1884.		5.91	15.04
6	25.06	20.07	2.21	1359.		5.43	12.43
7	39.53	31.67	2.22	1484.		7.05	17.05
8	47.11	37.74	2.31	1581.		7.76	18.69
9	47.17	37.79	2.48	1654.		7.21	17.83
10	39.80	31.88	1.88	1236.		5.74	13.67
11	27.16	21.76	1.97	1241.		4.95	11.66
12	25.79	20.66	-	-		-	-

1982	347.82	278.63	-	-		-	-

LOCATION : EH07 : ADD GASSABI PS				YEAR : 1983		CODE : 11	
Q = 6.008 - (0.000) * H ; QCAP =				6.008 HAV =		2.190	
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR	
1	27.03	21.65	1.77	1073.	3.48	8.11	
2	8.07	6.47	-	-	-	-	
3	26.00	20.83	1.96	1250.	6.39	14.10	
4	21.52	17.24	2.44	1522.	8.05	19.19	
5	20.82	16.70	2.47	1630.	7.76	18.29	
6	25.87	20.72	2.72	1783.	7.91	18.96	
7	44.79	35.88	2.27	1525.	7.28	16.91	
8	40.99	32.83	2.69	1827.	8.54	20.16	
9	42.93	34.39	2.37	1551.	6.84	16.15	
10	39.04	31.28	2.15	1468.	5.25	12.91	
11	26.16	20.96	-	-	-	-	
12	27.89	22.34	1.79	1255.	4.52	10.81	
1983	351.11	281.28	-	-	-	-	

LOCATION : EHOB : MAIN GASSABI PS				YEAR : 1980		CODE : 11	
Q = 6.263 - (0.342) * H ; GCAP =				5.432 HAV =		2.430	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	16.50	17.40	4.73	3017.	9.58	24.47	
2	9.63	10.03	7.32	4383.	12.13	32.51	
3	15.98	16.67	3.55	2235	6.36	16.83	
4	16.74	17.63	3.87	2360.	6.62	16.32	
5	14.32	14.93	4.93	3055.	10.37	23.04	
6	20.63	21.97	4.85	2982	9.43	24.45	
7	29.32	32.22	4.65	2910	11.69	29.35	
8	30.04	33.25	4.36	2758	10.18	26.46	
9	29.92	33.24	3.87	2428	8.65	22.62	
10	26.43	28.24	3.38	2206.	7.11	18.95	
11	17.23	18.48	4.23	2765.	8.56	23.51	
12	17.89	18.70	4.25	2947.	9.89	24.99	
1980	244.63	262.79	4.34	2745.	9.20	23.92	

LOCATION : EHOB : MAIN GASSABI PS				YEAR : 1981		CODE : 11	
G = 6.263 - (0.342) * H ; GCAP =				5.432 HAV =		2.430	
MONTH :	DISCHARGE	10**6 M3	EC	TDS		SAR	ADJ SAR
	MDI	DRI	MMHO/CM	PPM			
1	16.20	16.75	3.40	2132.		8.57	21.27
2	6.88	7.06	5.79	3604.		10.22	28.54
3	16.69	17.36	3.69	2168.		7.62	18.71
4	18.09	18.76	3.68	2289.		7.71	19.77
5	19.55	20.50	3.88	2372.		10.10	24.62
6	26.05	28.10	4.95	3068		9.21	24.14
7	30.96	34.55	3.37	1968.		4.95	12.91
8	28.06	30.24	3.65	2083		6.23	16.17
9	29.05	31.42	3.81	2340.		6.34	16.86
10	29.81	32.34	2.95	1813		7.28	17.79
11	18.88	19.82	3.67	2228		7.87	19.47
12	17.35	18.17	4.07	2561.		9.87	24.42
1981	257.57	275.07	3.78	2292.		7.53	19.24

LOCATION : EHOB : MAIN GASSABI PS				YEAR : 1982		CODE : 11	
Q = 6.263 - (0.342) * H ; GCAP =				5.432 HAV =		2.430	

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	

1	21.41	23.01	3.98	2328	8.53	21.42	
2	9.76	10.35	9.03	5227.	11.61	33.93	
3	19.24	20.72	3.51	2060.	7.26	18.14	
4	18.50	19.70	3.55	2405.	7.94	20.25	
5	15.52	16.43	5.59	3483	10.74	28.95	
6	24.70	28.02	4.23	2618.	9.26	23.20	
7	31.61	36.87	4.05	2588	10.22	25.99	
8	32.49	37.22	4.09	2712.	11.23	29.05	
9	30.27	35.34	4.33	2855	12.45	31.80	
10	27.37	30.58	3.49	2184.	9.28	23.28	
11	21.13	22.38	2.82	1676.	6.85	16.15	
12	14.36	15.04	-	-	-	-	

1982	266.36	295.67	-	-	-	-	

LOCATION : EHOB : MAIN GASSABI PS				YEAR : 1983		CODE : 11	
Q = 6.263 - (0.342) * H ; GCAP =				5.432 HAV =		2.430	
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR	
1	14.89	15.64	3.24	1945.	7.55	17.90	
2	5.63	5.66	-	-	-	-	
3	18.34	20.03	3.96	2435.	10.90	25.44	
4	17.86	19.17	4.03	2379.	10.12	24.13	
5	17.57	18.64	3.95	2577.	11.60	27.88	
6	19.55	21.28	4.87	3164.	15.66	37.54	
7	28.44	31.48	4.19	2777.	13.22	32.27	
8	28.37	31.85	4.34	2843.	11.98	30.66	
9	29.05	33.27	3.87	2271.	9.03	22.38	
10	25.04	27.32	3.37	2166.	7.02	17.54	
11	16.72	17.91	-	-	-	-	
12	13.66	14.59	3.57	2163.	11.41	25.81	
1983	235.12	256.83	-	-	-	-	

LOCATION : EH09 : GENEENA PS YEAR : 1980 CODE : 11
 Q = 6.630 - (0.843) * H ; GCAP = 5.011 HAV = 1.920

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	10.22	10.28	4.54	2726.	11.09	28.79
2	8.84	8.59	5.58	3365	12.30	33.11
3	12.92	12.41	1.18	774.	2.29	5.47
4	12.48	12.07	0.88	537.	2.33	4.02
5	11.90	11.56	0.97	618.	2.22	4.58
6	20.98	21.04	0.82	931.	1.55	3.27
7	26.41	26.20	0.94	637.	3.40	7.18
8	25.85	25.56	0.96	653.	2.75	6.20
9	22.41	22.95	0.83	566.	2.36	5.20
10	14.92	14.96	1.38	898.	3.77	9.10
11	13.00	13.14	1.69	1073.	4.23	10.23
12	11.50	11.66	1.74	1158.	4.20	10.26
1980	191.43	190.42	1.49	939.	4.18	9.61

LOCATION : EH09 : GENEENA PS YEAR : 1981 CODE : 11
 Q = 6.630 - (0.843) * H ; GCAP = 5.011 HAV = 1.920

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	10.39	10.95	2.31	1514.	7.05	17.05
2	9.14	9.44	5.53	3634.	13.52	35.33
3	14.17	14.41	1.49	918.	5.37	11.46
4	11.57	11.89	1.60	1026.	5.68	12.44
5	10.84	11.98	1.45	916.	5.24	11.44
6	17.82	18.09	1.25	872.	4.38	9.66
7	25.13	25.78	1.23	897.	4.17	9.39
8	24.08	23.29	1.17	795.	3.16	7.43
9	20.63	20.08	1.16	730.	3.28	7.27
10	14.89	14.34	1.48	939.	4.19	9.22
11	11.47	11.49	1.78	1118.	5.58	12.40
12	11.05	11.19	2.03	1281.	6.33	14.26
1981	181.18	182.94	1.68	1093.	5.37	12.23

LOCATION : EH09 : GENEENA PS YEAR : 1982 CODE : 11
 Q = 6.630 - (0.843) * H ; GCAP = 5.011 HAV = 1.920

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	11.43	11.51	4.69	2736.	10.31	26.54
2	6.41	6.89	7.46	4368.	15.18	42.48
3	12.44	12.34	1.47	958.	4.07	9.21
4	12.37	12.46	1.57	1048.	5.25	11.92
5	11.74	11.88	1.60	1015.	4.15	9.78
6	17.57	18.46	1.09	711.	2.70	5.93
7	27.21	25.88	1.19	788.	4.51	9.78
8	24.37	24.22	1.46	1014.	6.53	14.60
9	22.63	22.26	1.57	1042.	6.19	13.67
10	16.27	15.93	1.52	935.	3.84	8.99
11	15.48	15.41	1.31	825.	4.62	9.70
12	13.70	13.50	-	-	-	-
1982	191.62	190.73	-	-	-	-

LOCATION : EH09 : GENEENA PS YEAR : 1983 CODE : 11
 Q = 6.630 - (0.843) * H ; GCAP = 5.011 HAV = 1.920

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	13.64	13.38	0.99	623.	2.73	5.99
2	5.62	5.45	-	-	-	-
3	13.00	13.05	1.30	842.	4.51	9.43
4	13.61	13.69	1.23	809.	3.88	8.28
5	13.73	13.77	1.44	976.	4.50	10.16
6	19.24	19.03	0.99	671.	4.14	8.36
7	28.13	26.87	0.97	659.	4.09	8.42
8	23.90	23.07	1.09	781.	4.91	10.87
9	23.65	22.67	0.90	634.	3.51	7.23
10	15.55	15.25	0.93	597.	2.65	5.68
11	11.18	11.49	-	-	-	-
12	12.47	13.26	1.36	863.	3.39	7.81
1983	193.72	190.95	-	-	-	-

LOCATION : EH10 : ERAD PS YEAR : 1980 CODE : 11
 Q = 14 424 - (1 525) * H ; GCAP = 9.834 HAV = 3.010

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	37.42	46.74	5.34	3122	9.65	24.64
2	22.57	28.23	7.16	4193	11.33	30.32
3	39.04	46.42	2.36	1468	3.95	10.36
4	42.24	52.01	2.51	1584	6.72	16.97
5	36.56	45.21	2.93	1792	7.61	17.67
6	52.45	69.78	2.70	1686	6.78	16.64
7	67.33	81.66	2.78	1782	7.56	18.73
8	74.80	90.79	2.74	1694	7.30	18.25
9	77.96	94.18	2.48	1530	6.43	15.82
10	58.56	72.76	2.12	1364	4.63	12.02
11	49.67	63.57	3.02	1985	6.33	16.76
12	43.57	54.72	3.10	2086	9.45	22.30
1980	602.17	746.06	3.01	1872	7.12	17.98

LOCATION : EH10 : ERAD PS YEAR : 1981 CODE : 11
 Q = 12 424 - (1 525) * H ; GCAP = 7.834 HAV = 3.010

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	35.36	32.69	2.85	1978	7.70	19.11
2	25.60	25.46	3.07	2078	5.89	15.85
3	37.79	36.99	2.40	1438	5.93	13.65
4	36.28	36.42	2.76	1719	6.74	16.17
5	32.12	32.26	2.74	1669	6.54	15.98
6	48.41	46.41	2.85	1884	9.26	22.02
7	63.57	59.69	3.21	2173	12.76	29.20
8	73.10	67.69	2.81	1837	8.20	20.34
9	66.86	60.54	2.52	1529	7.26	17.42
10	50.33	49.45	2.56	1540	6.94	16.60
11	45.52	41.93	2.79	1679	6.72	16.36
12	40.24	38.73	3.46	2188	6.24	15.78
1981	555.18	528.28	2.81	1803	7.63	18.59

LOCATION : EH10 : ERAD PS YEAR : 1982 CODE : 11
 Q = 12 424 - (1 525) * H ; GCAP = 7.834 HAV = 3.010

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	38.84	36.89	4.06	2399	7.47	19.21
2	18.01	18.03	8.15	4815	12.72	36.13
3	34.76	33.74	2.45	1484	5.73	13.74
4	36.97	36.20	2.43	1608	6.27	15.12
5	34.31	33.72	2.97	1850	6.17	15.75
6	49.51	49.39	2.79	1753	6.31	15.88
7	67.72	66.18	2.56	1691	8.33	20.39
8	68.60	66.17	2.90	1959	10.14	24.68
9	66.37	64.30	2.78	1780	8.83	21.40
10	54.05	53.61	2.50	1561	6.90	16.64
11	50.49	49.08	2.32	1402	6.10	14.00
12	42.80	41.89	-	-	-	-
1982	562.43	549.18	-	-	-	-

LOCATION : EH10 : ERAD PS YEAR : 1983 CODE : 11
 Q = 12 424 - (1 525) * H ; GCAP = 7.834 HAV = 3.010

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	44.25	43.04	2.06	1254	5.60	12.34
2	13.71	13.45	-	-	-	-
3	39.20	39.98	-	-	-	-
4	38.57	37.46	2.72	1755	8.31	19.26
5	40.19	38.32	2.60	1728	9.27	21.06
6	50.43	48.36	2.66	1729	8.70	20.06
7	68.34	67.90	2.52	1670	9.01	20.83
8	58.87	56.63	3.05	2055	11.47	28.08
9	60.34	63.01	2.41	1507	8.19	18.69
10	51.49	52.44	2.15	1397	5.84	14.03
11	42.90	42.71	-	-	-	-
12	46.34	43.60	2.40	1515	7.51	17.32
1983	554.63	546.89	-	-	-	-

LOCATION : EH11 : BAHR HADUS BRIDGE YEAR : 1980 CODE : 22
Q = 109.750* (3.000- HM) ** 1.380 R2 = [0.950]

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	80.29	2.75	1673.	5.90	14.56
2	-	78.55	2.00	1269	4.22	10.31
3	-	97.75	1.86	1203.	3.34	8.48
4	-	105.30	2.28	1472.	6.07	15.37
5	-	128.21	2.15	1354.	5.71	12.89
6	-	88.89	2.34	1494.	6.52	16.51
7	-	142.24	2.50	1611.	8.06	19.26
8	-	177.78	2.49	1629.	6.90	16.98
9	-	196.02	2.45	1576.	6.86	16.52
10	-	74.37	2.12	1398.	5.57	14.25
11	-	155.63	2.28	1581.	5.9L	15.29
12	-	168.18	2.22	1606.	5.29	12.87
1980	-	1493.21	2.31	1514.	6.00	14.81

LOCATION : EH11 : BAHR HADUS BRIDGE YEAR : 1981 CODE : 22
Q = 109.750* (3.000- HM) ** 1.380 R2 = [0.950]

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	26.56	2.12	1482.	5.64	13.48
2	-	53.10	2.72	1586.	8.12	19.02
3	-	115.56	1.78	1054.	3.84	9.06
4	-	83.90	1.94	1256.	4.96	11.91
5	-	73.64	1.79	1143.	4.56	10.98
6	-	68.43	2.66	1747.	7.39	18.28
7	-	89.61	-	-	-	-
8	-	141.78	2.36	1492.	6.21	15.46
9	-	197.77	1.10	759.	2.38	5.61
10	-	189.31	1.38	855.	2.98	6.92
11	-	136.94	2.32	1451.	5.78	13.61
12	-	199.97	2.40	1552.	5.88	14.13
1981	-	1376.60	-	-	-	-

LOCATION : EH11 : BAHR HADUS BRIDGE YEAR : 1982 CODE : 22
Q = 109.750* (3.000- HM) ** 1.380 R2 = [0.950]

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	217.32	1.85	1139.	3.66	8.78
2	-	74.13	1.48	915.	3.13	7.37
3	-	185.11	1.32	853.	3.18	7.25
4	-	114.41	1.46	905.	3.59	8.18
5	-	116.34	1.99	1255.	4.69	11.04
6	-	120.10	2.12	1329.	5.57	12.97
7	-	140.19	2.23	1519.	7.38	17.83
8	-	192.95	2.25	1555.	7.99	19.33
9	-	174.33	2.48	1676.	8.04	19.68
10	-	203.26	1.80	1194.	5.60	13.03
11	-	-	-	-	-	-
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : EH11 : BAHR HADUS BRIDGE YEAR : 1983 CODE : 22
Q = 109.750* (3.000- HM) ** 1.380 R2 = [0.950]

MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	88.42	2.21	1294.	8.06	17.44
5	-	118.57	2.25	1469.	8.30	18.49
6	-	116.61	2.60	1713.	8.72	20.29
7	-	154.74	2.37	1605.	7.92	18.86
8	-	164.43	2.31	1580.	6.13	15.00
9	-	213.55	2.00	1318.	6.39	14.63
10	-	243.85	2.00	1291.	4.20	10.41
11	-	-	-	-	-	-
12	-	182.36	1.39	883.	3.61	8.17
1983	-	-	-	-	-	-

LOCATION : EH12 : SAFT PS YEAR : 1980 CODE : 11
 Q = 8.558 - (0.964) * H ; GCAP = 6.669 HAV = 1.960

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHG/CM	TDS PPM	SAR	ADJ SAR
1	32.97	39.45	3.97	3306	9.96	26.09
2	25.32	28.31	8.25	4823	12.78	34.68
3	44.75	51.59	2.26	1448	4.73	11.94
4	44.93	50.22	2.22	1370	5.21	11.63
5	49.57	52.06	2.22	1377	6.39	13.69
6	44.89	50.96	2.61	1672	5.72	14.15
7	56.08	61.70	2.99	1999	9.10	22.39
8	59.30	71.48	1.56	1001	3.52	8.42
9	53.84	64.90	2.19	1401	5.75	14.07
10	60.75	73.76	2.23	1463	5.90	15.13
11	39.13	47.16	2.48	1700	6.19	16.24
12	47.16	57.63	2.31	1584	6.19	14.72
1980	558.69	649.22	2.78	1744	6.61	16.42

LOCATION : EH12 : SAFT PS YEAR : 1981 CODE : 11
 Q = 8.558 - (0.964) * H ; GCAP = 6.669 HAV = 1.960

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHG/CM	TDS PPM	SAR	ADJ SAR
1	53.89	45.56	2.12	1375	6.94	16.38
2	25.54	20.94	3.29	2149	6.14	16.79
3	63.37	54.74	2.21	1343	5.84	13.46
4	62.80	54.31	2.29	1422	6.01	14.10
5	50.68	43.50	2.44	1558	6.64	15.68
6	52.25	46.18	2.89	1837	6.66	16.39
7	62.64	56.98	2.42	1398	3.71	9.41
8	70.79	63.95	2.62	1518	5.71	14.34
9	68.69	62.31	2.69	1639	6.68	16.57
10	77.22	70.74	2.28	1408	5.95	14.03
11	55.05	49.37	2.70	1620	6.16	15.05
12	53.59	50.13	2.33	1402	6.18	14.38
1981	696.51	618.72	2.48	1519	5.95	14.47

LOCATION : EH12 : SAFT PS YEAR : 1982 CODE : 11
 Q = 8.558 - (0.964) * H ; GCAP = 6.669 HAV = 1.960

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHG/CM	TDS PPM	SAR	ADJ SAR
1	53.16	48.36	3.77	2171	7.76	19.30
2	28.73	25.76	7.50	4485	10.87	32.59
3	60.40	51.84	2.29	1362	4.91	11.79
4	54.46	48.84	2.31	1432	5.38	12.99
5	52.73	50.00	2.41	1516	5.29	12.96
6	55.43	52.92	2.43	1525	5.26	12.39
7	58.46	59.86	2.93	1963	7.80	19.27
8	71.25	70.31	2.97	2034	9.20	22.53
9	64.45	64.43	2.65	1766	8.69	20.95
10	67.01	67.21	1.77	1157	5.17	11.89
11	69.96	62.74	2.96	1760	7.40	17.10
12	75.41	62.79	-	-	-	-
1982	711.45	665.07	-	-	-	-

LOCATION : EH12 : SAFT PS YEAR : 1983 CODE : 11
 Q = 8.558 - (0.964) * H ; GCAP = 6.669 HAV = 1.960

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHG/CM	TDS PPM	SAR	ADJ SAR
1	62.59	52.91	1.92	1202	5.38	11.85
2	20.66	17.73	-	-	-	-
3	54.19	48.60	2.28	1452	7.93	17.58
4	58.86	51.28	2.38	1471	8.01	18.56
5	62.48	53.22	2.36	1537	7.17	16.43
6	48.95	42.01	3.31	2182	9.29	22.38
7	52.41	48.35	2.97	1961	9.02	21.56
8	65.39	63.69	1.62	1086	6.28	14.20
9	71.55	63.71	2.57	1610	8.04	18.55
10	72.66	66.10	2.23	1413	4.92	11.96
11	50.81	44.59	-	-	-	-
12	61.48	55.53	2.04	1242	4.92	11.75
1983	682.03	607.73	-	-	-	-

LOCATION : EH13 : Bahr Hadus Outfall				YEAR : 1980		CODE : 24	
MONTH	DISCHARGE 10**6 M3	EC	TDS	SAR	ADJ SAR		
	MOI	DRI	MMHO/CM	PPM			
1	-	-	3.99	2491	10.24	25.44	
2	-	-	4.08	2359	8.78	22.27	
3	-	-	2.32	1485	4.80	12.29	
4	-	-	2.31	1466	5.95	13.39	
5	-	-	2.14	1443	6.67	13.71	
6	-	-	2.48	1519	5.94	14.36	
7	-	-	2.70	1752	7.93	19.36	
8	-	-	2.70	1761	6.67	16.82	
9	-	-	2.67	1721	6.77	16.98	
10	-	-	2.35	1326	7.26	18.10	
11	-	-	2.68	1800	6.48	16.82	
12	-	-	2.58	1860	8.04	19.62	
1980	-	-	2.74	1779	7.10	17.57	

LOCATION : EH13 : Bahr Hadus Outfall				YEAR : 1981		CODE : 24	
MONTH	DISCHARGE 10**6 M3	EC	TDS	SAR	ADJ SAR		
	MOI	DRI	MMHO/CM	PPM			
1	-	-	1.68	1082	5.25	12.03	
2	-	-	2.50	1613	6.67	16.38	
3	-	-	2.87	1880	7.07	17.94	
4	-	-	2.55	1752	6.61	17.04	
5	-	-	2.60	1778	5.90	15.06	
6	-	-	2.45	1617	6.82	16.55	
7	-	-	-	-	-	-	
8	-	-	2.53	1497	6.04	15.12	
9	-	-	2.12	1258	4.86	11.83	
10	-	-	1.90	1129	4.42	10.40	
11	-	-	2.50	1568	6.12	14.60	
12	-	-	2.47	1542	5.07	12.23	
1981	-	-	-	-	-	-	

LOCATION : EH13 : Bahr Hadus Outfall				YEAR : 1982		CODE : 24	
MONTH	DISCHARGE 10**6 M3	EC	TDS	SAR	ADJ SAR		
	MOI	DRI	MMHO/CM	PPM			
1	-	-	3.23	1813	5.61	14.06	
2	-	-	-	-	-	-	
3	-	-	2.14	1275	6.43	14.75	
4	-	-	2.13	1362	4.89	11.80	
5	-	-	1.97	1241	5.24	12.30	
6	-	-	2.08	1322	5.15	12.12	
7	-	-	2.65	1749	7.61	18.54	
8	-	-	2.60	1718	8.65	19.18	
9	-	-	-	-	-	-	
10	-	-	1.97	1293	6.01	13.96	
11	-	-	1.93	1224	5.08	11.64	
12	-	-	-	-	-	-	
1982	-	-	-	-	-	-	

LOCATION : EH13 : Bahr Hadus Outfall				YEAR : 1983		CODE : 24	
MONTH	DISCHARGE 10**6 M3	EC	TDS	SAR	ADJ SAR		
	MOI	DRI	MMHO/CM	PPM			
1	-	-	1.81	1103	3.58	8.45	
2	-	-	-	-	-	-	
3	-	-	-	-	-	-	
4	-	-	-	-	-	-	
5	-	-	-	-	-	-	
6	-	-	-	-	-	-	
7	-	-	2.61	1788	8.90	21.41	
8	-	-	2.69	1727	8.69	20.80	
9	-	-	2.47	1505	7.15	16.99	
10	-	-	2.14	1415	5.41	13.17	
11	-	-	-	-	-	-	
12	-	-	2.52	1491	7.54	17.73	
1983	-	-	-	-	-	-	

LOCATION : EH16 : EL ARIN BRIDGE				YEAR : 1982		CODE : 24	
MONTH	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	-	-	-	-	
2	-	-	1.92	1019	2.83	7.21	
3	-	-	0.98	666.	2.04	4.61	
4	-	-	1.50	1023	3.92	9.22	
5	-	-	0.85	589.	2.33	5.06	
6	-	-	1.12	762.	3.33	7.39	
7	-	-	1.45	1046.	5.24	12.46	
8	-	-	1.67	1188.	6.64	15.59	
9	-	-	1.31	920.	5.30	12.02	
10	-	-	0.84	589.	3.62	7.33	
11	-	-	0.82	566.	2.45	5.12	
12	-	-	-	-	-	-	
1982	-	-	-	-	-	-	

LOCATION : EH16 : EL ARIN BRIDGE				YEAR : 1983		CODE : 24	
MONTH :	DISCHARGE MDI	10**6 M3 DRI	EC MMHQ/CM	TDS PPM	SAR	ADJ SAR	
1	-	-	0.94	644.	2.70	5.84	
2	-	-	-	-	-	-	
3	-	-	1.51	1064.	4.97	11.09	
4	-	-	1.36	860.	4.15	8.78	
5	-	-	1.24	847.	4.30	9.58	
6	-	-	1.33	937.	5.11	11.51	
7	-	-	1.28	926.	5.41	11.91	
8	-	-	1.36	970.	5.62	12.30	
9	-	-	1.03	676.	3.82	8.11	
10	-	-	0.96	662.	2.84	6.27	
11	-	-	-	-	-	-	
12	-	-	1.04	704.	2.86	6.61	
1983	-	-	-	-	-	-	

LOCATION : E101 : BAHR FAGUS AT FAGUS YEAR : 1982 CODE : 24						
MONTH :	DISCHARGE 10**6 M3 MOI :	EC DRI :	TDS MMHQ/CM :	SAR PPM :	ADJ SAR	
1	-	-	0.96	683	2.12	4.94
2	-	-	0.57	378	1.68	3.05
3	-	-	0.59	395	1.26	2.51
4	-	-	0.65	427	1.26	2.58
5	-	-	-	-	-	-
6	-	-	0.55	402	1.44	2.78
7	-	-	0.55	404	1.41	2.78
8	-	-	0.67	446	2.22	4.28
9	-	-	0.73	524	2.75	5.48
10	-	-	0.75	545	2.17	4.58
11	-	-	0.66	472	1.99	4.04
12	-	-	-	-	-	-
1982	-	-	-	-	-	-

LOCATION : E101 : BAHR FAGUS AT FAGUS YEAR : 1983 CODE : 24						
MONTH :	DISCHARGE 10**6 M3 MOI :	EC DRI :	TDS MMHQ/CM :	SAR PPM :	ADJ SAR	
1	-	-	0.61	435	2.02	3.99
2	-	-	-	-	-	-
3	-	-	0.63	447	2.24	4.30
4	-	-	0.64	442	1.60	3.29
5	-	-	0.60	402	1.74	3.34
6	-	-	0.63	427	1.87	3.73
7	-	-	0.61	415	1.74	3.48
8	-	-	0.58	421	2.75	5.23
9	-	-	0.68	478	1.37	2.93
10	-	-	0.83	582	1.01	2.34
11	-	-	-	-	-	-
12	-	-	0.70	450	1.19	2.38
1983	-	-	-	-	-	-

LOCATION : EMO1 : MATAREYA PS				YEAR : 1980	CODE : 11	
Q = 9.608 - (0.431) * H ; QCAP = 8.401				HAV = 2.800		
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	15.06	15.76	8.06	4830	15.47	41.24
2	10.15	10.62	9.11	5433	17.71	47.67
3	14.56	15.33	6.68	3967	12.88	35.29
4	12.83	13.43	7.56	4648	15.18	37.72
5	14.70	15.36	7.86	4828	17.11	42.33
6	15.78	16.51	8.74	5281	16.34	43.92
7	17.47	18.39	7.44	4772	20.44	52.43
8	19.55	20.45	12.32	7478	23.43	63.21
9	20.11	21.05	9.99	6069	23.31	60.96
10	23.96	25.07	7.45	4742	16.23	45.03
11	21.36	22.35	8.82	5530	18.79	52.92
12	18.21	19.05	8.17	5443	19.21	50.27
1980	203.74	213.37	8.57	5310	18.28	48.95

LOCATION : EMO1 : MATAREYA PS				YEAR : 1981	CODE : 11	
Q = 9.608 - (0.431) * H ; QCAP =				8.401	HAV = 2.800	
MONTH :	DISCHARGE	10**6 M3	EC	TDS	SAR	ADJ SAR
	MOI	DRI	MMHO/CM	PPM		
1	17.66	17.97	5.69	3560	15.25	37.16
2	12.98	13.58	7.01	4309	13.79	36.86
3	16.82	17.60	5.69	3369	12.35	31.63
4	14.71	15.39	6.59	3931	14.04	36.73
5	12.76	14.09	7.00	4057	13.63	35.68
6	12.31	12.88	6.99	4435	16.65	43.69
7	14.28	14.88	7.70	4891	14.96	41.45
8	20.90	21.96	8.50	5436	21.21	55.84
9	22.28	23.83	7.62	4524	16.01	42.70
10	30.46	31.88	6.66	4108	19.18	47.01
11	21.88	22.89	6.90	4044	14.26	36.32
12	22.97	24.04	6.84	4405	12.82	33.49
1981	220.01	231.01	6.95	4268	15.48	40.22

LOCATION : EMO1 : MATAREYA PB				YEAR : 1982	CODE : 11	
Q = 9.608 - (0.431) * H ; QCAP =				8.401	HAV = 2.800	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	24.19	25.13	7.33	4349	13.27	35.33
2	9.68	10.13	11.91	6973	17.71	51.60
3	12.63	13.22	7.00	4231	14.89	39.12
4	13.18	13.79	6.98	4383	15.51	40.80
5	13.70	14.34	7.64	4811	16.65	43.43
6	14.51	15.21	8.01	5141	16.65	43.68
7	19.20	19.90	6.79	4292	15.66	41.31
8	21.63	22.33	7.78	5075	16.94	44.58
9	20.16	19.96	8.97	5815	21.70	57.66
10	21.92	22.74	8.49	5441	19.11	50.85
11	21.08	21.75	7.25	4384	15.75	40.27
12	17.44	18.24	-	-	-	-
1982	209.32	216.94	-	-	-	-

LOCATION : EMO1 : MATAREYA PB				YEAR : 1983	CODE : 11	
Q = 9.608 - (0.431) * H ; QCAP =				8.401 HAV =	2.800	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	16.64	17.39	5.66	3323	13.08	31.85
2	8.10	8.47	-	-	-	-
3	15.56	15.78	7.40	4475	18.24	41.91
4	13.61	13.62	8.66	4860	18.39	44.26
5	14.07	14.20	8.07	4940	18.53	47.25
6	14.37	14.86	7.24	4716	17.33	45.64
7	18.37	19.64	6.67	4414	18.18	46.64
8	17.66	18.48	8.39	5552	22.75	58.57
9	18.44	20.31	8.08	4930	20.13	51.48
10	24.22	22.62	-	-	-	-
11	19.72	20.40	-	-	-	-
12	18.73	19.52	5.35	3338	11.06	28.53
1983	199.49	205.29	-	-	-	-

LOCATION : ES01 : UPPER SERUA PS YEAR : 1980 CODE : 11
 Q = 17.740 - (1.944) * H ; QCAP = 11.208 HAV = 3.360

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	9.46	13.27	3.15	1852	7.03	17.87
2	7.76	10.89	4.08	2423	8.94	23.10
3	15.04	21.10	1.01	681	2.80	6.38
4	14.04	19.69	1.08	710	3.44	7.60
5	14.57	20.42	0.84	510	1.53	3.13
6	19.02	26.67	0.77	519	1.80	3.83
7	20.10	28.16	0.90	601	2.96	5.98
8	19.79	27.76	0.79	528	1.91	4.12
9	18.58	26.03	0.87	581	2.07	4.58
10	17.04	31.92	0.80	546	1.29	2.88
11	13.15	18.48	1.07	733	2.59	5.91
12	13.07	18.32	0.93	648	3.32	6.81
1980	181.62	262.71	1.15	735	3.04	6.76

LOCATION : ES01 : UPPER SERUA PS YEAR : 1981 CODE : 11
 Q = 17.740 - (1.944) * H ; QCAP = 11.208 HAV = 3.360

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	9.66	13.56	1.18	771	3.93	8.65
2	9.38	12.71	1.06	686	1.81	4.15
3	13.53	18.96	0.82	532	2.42	5.01
4	12.18	17.07	1.07	714	3.90	8.32
5	14.55	20.38	1.20	745	3.95	8.53
6	17.79	24.94	0.89	597	2.14	4.74
7	19.97	28.00	1.26	839	2.89	6.86
8	19.07	26.71	1.00	670	2.27	5.25
9	18.19	25.50	0.85	570	2.28	5.02
10	17.24	25.22	0.84	559	1.88	4.08
11	15.58	21.83	1.08	722	2.54	5.76
12	13.58	19.04	1.36	880	3.95	8.85
1981	180.72	253.92	1.04	685	2.75	6.13

LOCATION : ES01 : UPPER SERUA PS YEAR : 1982 CODE : 11
 Q = 17.740 - (1.944) * H ; QCAP = 11.208 HAV = 3.360

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	11.69	16.38	0.91	594	2.12	4.63
2	6.64	8.51	3.95	2316	7.78	21.41
3	13.65	19.13	0.86	542	1.76	3.77
4	12.38	17.35	0.92	581	2.07	4.48
5	16.13	22.60	0.92	584	2.67	5.61
6	17.71	24.81	0.86	579	2.29	4.90
7	20.99	29.41	0.89	611	2.78	6.00
8	20.06	29.41	0.93	685	3.94	8.48
9	18.76	26.27	0.99	748	3.38	7.58
10	17.86	25.02	0.88	616	2.69	5.64
11	15.84	22.19	0.85	553	2.58	5.31
12	13.36	18.72	-	-	-	-
1982	185.07	259.81	-	-	-	-

LOCATION : ES01 : UPPER SERUA PS YEAR : 1983 CODE : 11
 Q = 17.740 - (1.944) * H ; QCAP = 11.208 HAV = 3.360

MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	12.21	18.09	0.66	448	1.80	3.62
2	14.31	20.44	-	-	-	-
3	12.31	16.87	0.88	596	2.89	6.00
4	13.36	18.57	0.85	558	2.55	5.26
5	17.37	24.88	0.98	662	3.73	7.71
6	20.97	31.11	0.80	553	3.17	6.36
7	24.44	37.07	0.81	569	2.82	5.92
8	21.31	30.12	1.02	707	3.51	7.74
9	20.48	28.04	0.87	605	3.00	6.07
10	15.70	20.46	0.91	595	2.31	5.06
11	12.18	15.77	-	-	-	-
12	15.21	21.16	0.75	496	1.66	3.30
1983	199.85	282.56	-	-	-	-

LOCATION : ES02 : LOWER SERUA PS				YEAR : 1980	CODE : 11	
Q = 11.165 - (1.188) * H ; GCAP =				8.243	HAV = 2.460	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	33.37	33.19	2.98	1850.	6.48	16.20
2	24.11	23.86	3.04	1981.	6.76	16.67
3	40.77	41.57	1.69	1086.	3.34	8.35
4	47.83	46.68	1.33	854.	4.03	8.97
5	36.17	36.79	1.80	1175.	4.68	10.83
6	65.49	65.08	1.60	1047.	3.43	8.33
7	70.65	72.31	1.54	998.	4.22	9.99
8	69.46	70.07	1.53	978.	4.61	10.90
9	70.24	71.90	1.32	813.	3.79	8.61
10	51.85	52.70	1.47	974.	2.81	7.25
11	50.75	49.30	1.92	1306.	4.93	12.61
12	44.15	42.97	1.90	1311.	5.20	12.12
1980	604.84	606.43	1.72	1115.	4.34	10.49

LOCATION : ES02 : LOWER SERUA PS				YEAR : 1981	CODE : 11	
Q = 11.165 - (1.188) * H ; GCAP =				8.243	HAV = 2.460	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	39.97	36.64	1.72	1167.	4.84	11.80
2	26.77	27.12	1.88	1155.	6.16	14.23
3	45.10	46.93	1.63	957.	5.45	11.74
4	46.28	49.56	1.47	936.	4.82	10.62
5	59.48	52.25	1.37	895.	4.61	10.17
6	62.78	64.69	1.44	919.	3.89	9.02
7	69.65	68.63	1.48	892.	2.16	5.27
8	64.12	65.49	1.45	902.	3.58	8.45
9	63.39	64.64	1.31	831.	4.04	9.23
10	58.45	58.96	1.38	868.	3.89	8.60
11	51.36	52.63	1.35	834.	3.79	8.23
12	45.60	46.59	1.55	986.	4.85	10.73
1981	632.95	634.13	1.47	925.	4.09	9.35

LOCATION : ES02 : LOWER SERUA PS				YEAR : 1982	CODE : 11	
Q = 11.165 - (1.188) * H ; GCAP =				8.243	HAV = 2.460	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	36.73	38.01	2.48	1444.	6.00	14.30
2	16.31	16.46	5.35	3149.	9.29	25.90
3	42.18	43.53	1.61	976.	4.04	9.20
4	47.08	46.77	1.47	936.	4.22	9.52
5	50.35	51.71	1.54	1045.	4.22	9.89
6	62.50	68.06	1.54	1031.	5.05	11.51
7	71.17	75.04	1.58	1074.	5.75	13.53
8	72.05	76.49	1.73	1188.	6.94	16.32
9	65.48	71.76	1.70	1140.	7.32	16.03
10	52.21	58.01	1.39	922.	5.50	11.89
11	46.41	49.33	1.45	933.	5.33	11.17
12	39.16	41.13	-	-	-	-
1982	601.63	636.30	-	-	-	-

LOCATION : ES02 : LOWER SERUA PS				YEAR : 1983	CODE : 11	
Q = 11.165 - (1.188) * H ; GCAP =				8.243 HAV =	2.460	
MONTH	DISCHARGE MOI	10**6 M3 DRI	EC MMHO/CM	TDS PPM	SAR	ADJ SAR
1	36.62	38.92	1.15	709.	3.74	7.69
2	17.18	17.46	-	-	-	-
3	43.71	39.31	1.55	973.	4.76	10.21
4	43.39	45.60	1.61	1014.	3.97	8.88
5	56.44	58.21	1.39	917.	4.36	9.49
6	57.39	60.35	1.68	1141.	6.30	14.19
7	71.61	75.03	1.71	1187.	6.77	15.19
8	62.80	64.95	1.89	1289.	8.03	17.93
9	59.87	66.83	1.70	1152.	6.58	14.27
10	48.55	49.47	-	-	-	-
11	43.10	45.06	-	-	-	-
12	43.75	44.52	1.62	997.	3.48	8.24
1983	584.41	605.71	-	-	-	-

3.2. Chemical composition

LOCATION : EBOI BILBEYS BRIDGE YEAR : 1980 CODE : 21
MEASUREMENT POINT CODE 21 , OPEN DRAIN ; BASIC DATA: WATER LEVEL MEASUREMENTS

DISCHARGE RELATION $Q = A + B * HM$
Q - DISCHARGE IN M**3 PER SECOND
A = 53.325 - Q INTERCEPT FOR HM = 0
B = -10.196 - SLOPE OF Q-HM RELATION
HM - DISTANCE TO WATERLEVEL FROM FIXED POINT
R2 = 0.690 - CORRELATION COEFFICIENT

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	23.99	1.56	1141	7.04	5.73	14.08	0.97	2.60	3.49	10.01	0.28	0.00	7.06	3.62	5.70
2	28.16	1.26	930	7.09	2.85	7.31	0.00	4.70	2.60	5.44	0.36	0.00	7.22	1.27	4.63
3	38.07	1.29	950	7.43	1.69	4.54	0.00	4.31	4.99	3.68	0.40	0.00	7.69	1.65	4.24
4	36.66	1.48	1072	7.33	4.12	10.61	0.53	4.13	3.15	7.65	0.20	0.00	7.81	1.57	5.95
5	37.87	1.20	872	7.37	2.82	6.90	0.00	3.82	3.26	5.32	0.20	0.00	5.49	3.14	3.96
6	37.53	1.28	926	7.50	2.40	6.17	0.00	4.39	3.91	4.90	0.20	0.00	6.41	2.49	4.49
7	42.08	1.25	943	7.40	3.51	8.79	0.33	4.01	2.58	6.37	0.27	0.00	6.92	2.42	3.83
8	43.22	1.17	880	7.43	2.82	7.11	0.86	4.16	2.22	5.03	0.78	0.00	7.23	0.75	4.13
9	41.64	1.22	904	7.36	3.03	7.75	1.09	3.82	2.75	5.50	0.55	0.00	7.66	0.26	4.68
10	40.56	1.30	987	7.47	3.14	8.14	1.42	4.10	2.69	5.79	1.00	0.00	8.21	0.70	4.67
11	39.88	1.52	1158	7.55	3.39	9.04	0.00	5.48	3.27	7.08	0.50	0.00	8.27	2.87	5.19
12	40.00	1.95	1412	7.45	6.59	16.15	0.00	4.26	3.11	12.65	0.21	0.00	6.15	9.28	4.81
1980	449.64	1.36	1012	7.36	3.41	8.73	0.00	4.20	3.15	6.55	0.43	0.00	7.19	2.48	4.64

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	25.42	1.45	1045	7.06	5.70	13.47	0.79	2.24	3.20	9.39	0.23	0.00	6.22	3.47	5.36
2	25.72	1.00	665	7.32	4.47	9.03	0.29	2.31	1.26	5.97	0.18	0.00	3.85	1.23	4.64
3	35.57	1.66	1100	7.38	6.60	15.40	0.67	4.05	1.28	10.78	0.20	0.00	6.00	1.33	8.97
4	36.48	1.42	1061	7.53	4.61	11.69	1.51	3.93	2.51	8.27	0.19	0.00	7.95	1.86	5.08
5	38.00	1.29	991	7.26	3.58	9.20	1.12	4.12	2.64	6.59	0.34	0.00	7.88	1.93	3.89
6	36.58	1.65	1202	7.62	4.65	12.01	0.00	3.79	4.08	9.21	0.29	0.00	7.64	3.37	6.36
7	38.23	2.14	1475	8.14	7.71	18.59	0.00	4.64	2.52	14.59	0.31	0.00	5.87	5.69	10.51
8	38.14	1.47	997	7.58	4.07	10.00	0.00	4.05	2.80	7.34	0.34	0.00	6.06	1.43	7.26
9	39.98	1.56	1031	7.23	4.55	11.02	0.00	2.92	3.94	8.43	0.35	0.00	5.69	1.46	8.47
10	39.64	1.07	782	7.31	2.31	5.74	0.00	4.04	2.42	4.15	0.36	0.00	6.38	0.79	3.80
11	39.11	1.27	961	7.29	3.13	8.00	0.20	4.71	2.39	5.89	0.40	0.00	7.30	2.01	4.09
12	40.25	1.27	942	7.26	3.23	8.17	0.00	4.90	2.12	6.06	0.21	0.00	6.84	1.90	4.55
1981	433.12	1.45	1028	7.36	4.46	10.99	0.03	3.90	2.62	8.05	0.29	0.00	6.55	2.19	6.12

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	37.72	1.33	965	7.30	2.76	7.06	0.00	4.01	4.18	5.58	0.20	0.00	6.47	2.90	4.62
2	30.06	1.42	1052	7.39	3.19	8.39	0.00	4.68	3.58	6.47	0.24	0.00	7.86	2.03	5.08
3	40.12	1.34	1019	7.21	4.03	10.15	1.30	4.39	1.91	7.15	0.67	0.00	7.59	1.85	4.67
4	42.00	1.38	1020	7.16	4.73	10.97	0.00	4.21	1.80	8.20	0.42	0.00	5.00	5.10	4.49
5	38.72	1.35	1011	7.25	3.78	9.56	0.27	4.05	2.82	7.01	0.38	0.00	7.14	2.57	4.54
6	39.60	1.28	982	7.28	4.10	10.13	1.00	4.33	1.69	7.11	0.46	0.00	7.02	2.60	3.96
7	39.24	1.26	1018	7.53	4.23	10.73	2.00	3.97	2.16	7.41	0.25	0.00	8.13	2.83	2.83
8	41.57	1.41	1148	7.26	5.50	13.62	1.43	3.44	2.57	9.53	0.23	0.00	7.44	5.68	2.65
9	39.53	1.51	1161	7.27	6.13	14.95	1.57	2.54	3.15	10.34	0.28	0.00	7.26	4.60	4.50
10	37.41	1.36	1041	7.27	4.41	11.06	0.84	3.41	3.09	7.94	0.08	0.00	7.34	3.10	4.32
11	34.72	1.25	943	7.35	4.10	10.15	1.06	3.95	2.07	7.11	0.06	0.00	7.08	1.97	4.15
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 10 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	33.94	1.49	1004	7.29	6.52	13.69	0.00	3.10	1.69	10.09	0.11	0.00	3.86	4.45	6.69
5	34.81	1.62	1102	7.19	5.78	13.03	0.00	3.93	2.17	10.09	0.24	0.00	4.40	4.45	7.74
6	32.46	1.43	1028	7.47	4.46	10.76	0.00	3.92	2.72	8.13	0.15	0.00	5.71	3.76	5.50
7	34.80	1.50	1190	7.87	5.61	13.79	0.63	4.41	1.86	9.93	0.25	0.00	6.91	5.81	4.00
8	39.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	38.57	1.49	954	7.93	3.77	8.56	0.00	3.91	3.65	7.32	0.07	0.17	3.53	3.90	7.13
10	40.26	1.34	964	7.49	3.44	8.24	0.00	4.07	3.47	6.68	0.08	0.40	4.43	5.25	4.23
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	44.60	1.27	845	7.38	3.07	7.00	0.00	3.93	3.03	5.72	0.12	0.01	3.85	3.34	5.57
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1980 CODE : 23
MEASUREMENT POINT CODE: 23 ; OPEN DRAIN ; BASIC DATA: WATERLEVEL AND FLOAT MEASUREMENTS

DISCHARGE RELATION: $Q=0.85 \cdot AS \cdot VF$
Q - DISCHARGE IN M³ PER SECOND
0.85 - FACTOR
AS - WETTED CROSS SECTION IN M²
VF - FLOAT VELOCITY IN M PER SECOND

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	HQ	NA	K	CO3	HCO3	SO4	CL
1	28.42	1.01	717.	7.02	2.40	5.61	0.00	3.24	2.71	4.13	0.28	0.00	4.84	1.98	3.48
2	21.91	1.05	764.	7.19	1.42	3.53	0.00	4.35	3.53	2.81	0.30	0.00	5.35	2.43	3.21
3	35.18	0.98	717.	7.31	1.38	3.40	0.00	3.94	3.51	2.66	0.16	0.00	5.21	2.37	2.71
4	35.18	1.11	744.	7.65	3.00	6.91	0.00	3.05	2.68	5.08	0.17	0.00	4.69	1.20	5.24
5	35.19	1.45	881.	7.57	9.37	11.13	0.00	2.72	2.35	8.56	0.14	0.00	3.36	1.72	8.70
6	33.27	0.80	983.	7.20	1.24	2.83	0.00	3.03	3.32	2.22	0.18	0.00	3.74	1.44	3.57
7	35.07	0.96	694.	7.58	2.75	6.32	0.00	3.15	2.01	4.43	0.25	0.00	4.94	1.60	3.30
8	38.11	0.93	695.	7.51	1.75	4.14	0.03	2.96	2.44	2.87	1.28	0.00	5.43	1.10	3.00
9	45.29	0.91	640.	7.39	1.87	4.37	0.00	2.77	2.70	3.10	0.55	0.00	4.90	0.79	3.44
10	41.81	1.00	697.	7.14	1.57	3.81	0.00	3.15	3.55	2.88	0.53	0.00	5.19	0.94	4.00
11	44.68	1.23	901.	7.53	1.30	3.40	0.00	3.82	5.65	2.84	0.79	0.00	6.12	3.15	3.82
12	46.79	1.17	855.	7.56	1.69	4.22	0.00	3.66	4.75	3.46	0.61	0.00	5.31	3.66	3.44
1980	440.88	1.06	744.	7.36	2.04	4.89	0.00	3.29	3.34	3.72	0.47	0.00	4.96	1.88	3.99

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	HQ	NA	K	CO3	HCO3	SO4	CL
1	30.34	1.17	830.	7.10	3.78	8.64	0.00	2.13	3.41	6.30	0.27	0.00	4.75	3.20	4.18
2	15.15	1.90	1327.	7.05	8.06	19.31	1.25	3.24	2.42	13.57	0.22	0.00	6.91	3.72	8.82
3	33.29	0.81	579.	7.27	1.75	4.01	0.00	2.42	2.81	2.82	0.28	0.00	4.68	0.46	3.16
4	32.32	0.97	695.	7.54	2.90	6.53	0.00	2.85	2.29	4.65	0.17	0.00	4.53	2.29	3.12
5	32.72	0.83	578.	7.42	1.93	4.36	0.00	3.18	1.83	3.06	0.19	0.00	4.48	0.58	3.20
6	28.23	1.00	731.	7.70	2.84	6.59	0.00	3.43	2.07	4.71	0.18	0.00	5.01	2.13	3.24
7	31.37	1.31	925.	8.19	3.59	8.46	0.00	3.87	2.90	6.60	0.21	0.00	4.81	3.87	4.90
8	29.98	1.19	829.	7.86	2.47	6.00	0.00	4.15	3.14	4.72	0.19	0.00	5.11	2.29	4.80
9	32.94	1.24	901.	7.45	2.30	3.65	0.00	3.30	5.08	4.72	0.19	0.00	4.89	4.88	3.52
10	34.47	1.00	706.	7.55	1.75	4.16	0.00	3.15	3.77	3.26	0.16	0.00	4.51	2.67	3.18
11	39.82	1.15	808	7.44	2.05	5.01	0.00	3.97	4.16	4.04	0.15	0.00	4.97	2.98	3.97
12	45.25	1.02	725.	7.27	2.58	6.02	0.00	3.43	2.50	4.44	0.10	0.00	4.81	2.07	3.60
1981	385.88	1.15	776.	7.41	2.70	6.36	0.00	3.23	3.08	4.80	0.19	0.00	4.86	2.53	3.90

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 13 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	HQ	NA	K	CO3	HCO3	SO4	CL
1	46.96	0.94	672.	7.15	2.42	5.64	0.00	3.73	1.70	3.98	0.11	0.00	5.15	0.93	3.44
2	22.81	1.05	728.	7.43	1.91	4.63	0.00	4.32	2.59	3.56	0.12	0.00	5.06	1.44	4.09
3	40.12	0.86	627.	7.25	1.75	4.02	0.00	3.47	2.35	2.98	0.19	0.00	4.37	1.82	2.79
4	35.14	1.00	686.	7.05	1.85	4.39	0.00	3.68	2.88	3.36	0.15	0.00	4.66	1.44	3.97
5	36.87	0.83	609.	7.23	1.82	4.20	0.00	3.42	1.99	2.99	0.13	0.00	4.74	1.52	2.26
6	42.39	0.90	581.	7.34	1.53	3.50	0.00	3.90	1.50	2.52	0.20	0.00	4.39	1.49	2.25
7	33.72	1.10	824.	7.50	3.44	8.24	0.44	3.42	2.18	5.76	0.18	0.00	6.04	2.14	3.36
8	41.10	1.42	1055.	7.58	5.61	13.46	1.10	2.88	2.66	9.34	0.12	0.00	6.64	3.58	4.78
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB02 : GALLYUBEYA BRIDGE YEAR : 1983 CODE : 24
THE WATER QUALITY DATA DURING 1983 ARE BASED ON 9 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	HQ	NA	K	CO3	HCO3	SO4	CL
1	-	0.92	663.	7.54	2.98	6.48	0.00	2.81	1.94	4.39	0.11	0.00	4.09	2.69	2.68
2	-	0.94	687.	7.88	4.07	8.44	0.07	2.38	1.51	5.68	0.12	0.00	3.96	3.28	2.45
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	0.97	679.	7.31	3.46	7.39	0.00	2.49	2.02	5.20	0.11	0.00	3.97	2.49	3.36
5	-	0.99	701.	7.47	3.60	7.81	0.00	2.70	1.82	5.42	0.14	0.00	4.26	2.32	3.49
6	-	0.99	717.	7.89	3.20	7.23	0.00	2.76	2.27	5.08	0.12	0.00	4.72	2.37	3.14
7	-	1.07	786.	8.14	3.43	7.90	0.00	3.32	2.05	5.62	0.15	0.00	5.03	2.91	3.19
8	-	1.73	1216.	8.23	8.52	18.51	0.26	2.51	2.11	12.96	0.13	0.00	4.89	6.41	6.53
9	-	1.16	811.	8.06	3.81	8.41	0.00	2.70	2.77	6.30	0.16	0.00	4.06	3.68	4.18
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : E803 : WADI PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE 11 : PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q=Q0+B*H$
Q ~ DISCHARGE IN M**3 PER SECOND
Q0 = 7.632 ~ DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
B = -1.140 ~ SLOPE OF CAPACITY CURVE
H ~ SUCTION HEAD IN M
GCAP= 4.269 ~ AVERAGE PUMP CAPACITY IN M**3 PER SECOND
HAY = 2.950 ~ AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	20.62	1.18	842	7.34	2.16	5.26	0.00	4.88	2.93	4.27	0.18	0.00	4.84	3.33	4.15
2	14.65	1.18	830	7.36	1.92	4.82	0.00	4.31	3.79	3.85	0.19	0.00	5.72	1.97	4.47
3	33.26	1.15	811	7.80	2.41	5.99	0.00	3.66	3.46	4.55	0.12	0.00	5.90	1.48	4.38
4	30.52	1.13	809	7.68	3.14	7.47	0.00	3.29	2.76	5.45	0.17	0.00	5.44	2.15	4.04
5	39.45	0.87	591	7.51	2.43	5.12	0.00	2.53	2.09	3.69	0.32	0.00	3.51	1.72	3.40
6	39.69	0.97	685	7.05	2.12	5.07	0.00	3.21	2.76	3.66	0.18	0.00	5.36	0.90	3.56
7	40.70	1.03	739	7.50	3.45	7.76	0.00	3.26	1.64	5.40	0.21	0.00	4.81	2.03	3.68
8	43.39	1.05	697	7.26	3.08	6.97	0.00	3.14	1.97	4.93	0.21	0.00	4.67	0.49	5.08
9	42.70	1.95	655	7.41	2.28	5.17	0.00	3.29	2.27	3.80	0.18	0.00	4.32	1.47	3.75
10	36.32	1.09	782	7.44	1.82	4.62	0.00	3.74	3.77	3.52	0.19	0.00	6.36	1.08	3.77
11	39.53	1.21	878	7.53	1.85	4.77	0.00	5.05	3.59	3.85	0.20	0.00	6.16	2.32	4.22
12	32.90	1.27	869	7.78	2.58	6.34	0.00	3.73	4.01	5.08	0.15	0.00	5.26	2.30	5.41
1980	413.74	1.07	753	7.42	2.43	5.80	0.00	3.58	2.82	4.34	0.19	0.00	5.14	1.67	4.13

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	21.06	1.14	811	7.49	2.90	6.91	0.00	2.57	3.85	5.19	0.22	0.00	5.17	2.61	4.07
2	10.43	1.51	910	7.02	2.97	7.51	0.00	3.46	3.94	5.71	0.23	0.00	6.56	0.94	5.84
3	33.36	0.83	569	7.44	2.47	5.40	0.01	2.49	1.89	3.65	0.16	0.00	4.39	0.26	3.54
4	28.20	1.02	742	7.33	2.69	6.33	0.00	3.29	2.53	4.58	0.17	0.00	5.17	2.08	3.31
5	30.02	1.05	730	7.14	2.38	5.64	0.00	3.29	2.95	4.20	0.21	0.00	5.01	1.44	4.20
6	41.38	1.68	1056	7.56	2.77	6.99	0.00	4.06	6.18	6.26	0.17	0.00	5.12	2.13	9.43
7	50.52	0.86	604	8.28	1.56	3.67	0.00	3.43	2.40	2.66	0.11	0.00	4.90	0.78	2.92
8	40.76	1.09	735	7.71	2.30	5.57	0.00	3.55	2.92	4.15	0.18	0.00	5.40	0.42	4.97
9	40.67	1.09	757	7.27	2.72	6.43	0.00	3.33	2.75	4.73	0.21	0.00	5.16	1.38	4.49
10	42.46	1.14	814	7.18	2.52	6.09	0.00	3.58	3.33	4.68	0.21	0.00	5.21	2.68	3.92
11	42.53	1.15	809	7.13	2.25	5.33	0.00	3.17	4.38	4.37	0.14	0.00	4.31	3.91	3.84
12	35.97	1.08	756	7.26	3.05	7.09	0.00	2.58	3.20	5.18	0.09	0.00	4.94	1.99	4.12
1981	417.35	1.11	766	7.35	2.47	5.89	0.00	3.27	3.34	4.49	0.17	0.00	5.01	1.75	4.52

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	22.55	0.89	618	7.12	2.08	4.76	0.00	3.14	2.26	3.42	0.09	0.00	4.52	1.11	3.28
2	5.02	1.91	1426	7.08	2.37	6.91	0.00	8.14	6.04	6.32	0.21	0.00	10.49	2.69	7.53
3	28.32	0.93	658	7.14	1.59	3.81	0.00	3.70	2.76	2.85	0.14	0.00	5.05	1.25	3.15
4	32.93	0.98	699	7.08	2.02	4.87	0.00	4.00	2.23	3.57	0.18	0.00	5.32	1.05	3.62
5	32.71	0.39	660	7.28	2.30	5.29	0.00	4.09	1.14	3.71	0.21	0.00	4.89	1.72	2.54
6	36.22	0.83	611	7.36	2.22	5.00	0.00	3.42	1.44	3.45	0.20	0.00	4.64	1.48	2.38
7	39.99	0.94	679	7.45	2.85	6.53	0.16	3.20	1.72	4.48	0.19	0.00	5.08	1.08	3.43
8	35.79	1.17	840	7.14	3.89	9.10	0.00	2.75	2.80	6.48	0.08	0.00	5.44	2.46	4.20
9	40.91	1.08	712	7.14	3.56	7.94	0.00	2.39	2.51	5.57	0.09	0.00	4.59	0.79	5.19
10	24.95	1.12	787	7.12	2.57	6.25	0.00	3.80	2.85	4.70	0.03	0.00	5.49	1.62	4.34
11	29.14	0.90	712	7.60	3.07	6.85	0.00	3.17	2.07	4.96	0.02	0.00	4.30	2.89	3.04
12	33.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	361.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	20.67	0.87	612	7.39	1.66	3.78	0.00	3.53	2.33	2.84	0.13	0.00	4.13	1.95	2.76
2	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	22.46	1.00	709	7.14	3.26	7.07	0.00	2.76	2.20	5.14	0.16	0.00	3.93	3.14	3.18
4	27.05	0.94	642	7.13	2.95	6.06	0.00	2.47	2.30	4.56	0.15	0.00	3.11	3.04	3.32
5	28.34	1.22	817	7.28	3.65	8.04	0.00	3.99	1.85	6.23	0.12	0.00	3.81	2.95	5.44
6	37.15	1.31	948	7.79	5.27	11.62	0.00	3.16	2.00	8.47	0.10	0.00	4.42	4.93	4.39
7	39.88	1.23	912	8.15	5.16	11.59	0.28	2.76	2.06	8.02	0.13	0.01	5.09	4.25	3.62
8	45.63	1.22	838	8.34	4.88	10.77	0.00	2.25	2.49	7.51	0.16	0.37	4.34	2.89	4.79
9	50.32	1.08	758	8.07	3.34	7.21	0.00	2.74	2.74	5.53	0.14	0.01	3.53	4.07	3.54
10	42.58	1.05	758	7.37	1.96	4.60	0.00	3.81	3.50	3.74	0.05	0.00	4.17	4.16	2.77
11	31.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	34.00	0.92	639	6.94	2.02	4.46	0.00	3.47	2.32	3.44	0.13	0.00	3.63	2.48	3.27
1983	385.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION EB04 : WADI RAILWAY BRIDGE YEAR : 1982 CODE : 24
 THE WATER QUALITY DATA DURING 1982 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.12	828	7.27	2.67	6.47	0.00	4.15	2.50	4.86	0.26	0.00	5.50	2.76	3.51
4	-	1.07	779	7.06	2.25	5.50	0.00	3.46	3.30	4.14	0.26	0.00	5.53	2.13	3.53
5	-	1.05	771	7.23	3.06	7.18	0.00	3.63	1.91	5.10	0.24	0.00	5.30	2.22	3.35
6	-	1.08	833	7.34	3.96	9.24	0.92	3.47	1.49	6.23	0.27	0.00	5.87	2.79	2.80
7	-	1.17	926	7.49	4.25	10.27	1.39	3.58	1.79	6.97	0.30	0.00	6.76	3.21	2.67
8	-	1.27	992	7.16	4.98	11.82	0.75	2.47	2.97	8.22	0.18	0.00	6.20	4.83	2.82
9	-	1.35	1029	7.11	5.37	12.67	0.59	2.07	3.40	8.88	0.22	0.00	6.06	4.94	3.57
10	-	1.14	846	7.24	2.52	6.25	0.00	3.67	3.61	4.81	0.09	0.00	5.77	3.08	3.29
11	-	1.05	771	7.50	2.95	6.93	0.00	3.62	2.24	5.05	0.06	0.00	5.10	2.76	3.09
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION EB4A : BILBFIS DRAIN AT WADI YEAR : 1980 CODE : 24
THE WATER QUALITY DATA DURING 1980 ARE BASED ON 20 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.36	989	7.29	1.96	5.30	0.00	4.59	5.19	4.33	0.21	0.00	7.83	1.44	5.04
4	-	1.13	793	7.27	2.63	6.13	0.00	3.10	3.57	4.84	0.21	0.00	4.21	3.36	3.94
5	-	1.04	724	7.30	2.12	4.89	0.00	3.01	3.65	3.87	0.18	0.00	4.09	3.16	3.46
6	-	1.02	762	7.23	2.10	5.23	0.32	3.43	2.75	3.70	0.67	0.00	6.51	0.64	3.40
7	-	1.24	942	7.47	2.91	7.38	0.00	3.92	3.58	5.63	0.18	0.00	6.63	3.33	3.34
8	-	1.04	774	7.28	2.41	5.87	0.41	3.90	1.91	4.10	0.77	0.00	6.22	0.82	3.64
9	-	1.08	794	7.42	2.39	5.82	0.00	3.60	2.70	4.25	0.63	0.00	5.72	1.82	3.66
10	-	1.12	849	7.77	2.56	6.40	0.79	3.55	2.65	4.50	0.98	0.00	6.98	0.97	3.72
11	-	1.28	972	7.52	2.57	6.65	0.00	4.26	3.44	5.04	0.85	0.00	7.19	2.38	4.04
12	-	1.48	1041	7.58	3.60	8.91	0.00	4.48	3.44	7.17	0.26	0.00	5.58	3.83	5.93
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.14	800	7.10	3.70	8.34	0.00	2.39	3.05	6.10	0.16	0.00	4.52	3.11	4.07
2	-	1.11	791	7.33	4.07	9.35	0.77	1.88	2.92	6.31	0.22	0.00	5.57	1.60	4.15
3	-	1.08	793	7.28	2.89	7.05	0.23	3.60	2.39	5.00	0.19	0.00	6.21	1.32	3.64
4	-	1.09	820	7.47	2.84	7.10	0.86	3.51	2.65	4.98	0.24	0.00	7.02	0.81	3.55
5	-	1.10	830	7.35	3.08	7.57	0.52	3.84	2.13	5.33	0.26	0.00	6.50	1.60	3.42
6	-	1.25	959	7.72	3.25	8.24	0.00	3.60	3.52	6.12	0.21	0.00	7.00	3.18	3.26
7	-	1.22	942	8.14	2.76	6.96	0.00	4.40	3.26	5.41	0.21	0.00	6.16	4.26	2.87
8	-	1.11	802	7.88	2.22	5.51	0.00	4.39	2.68	4.17	0.24	0.00	5.86	1.61	3.99
9	-	1.03	723	7.48	2.14	5.20	0.00	2.81	3.57	3.82	0.24	0.00	5.56	1.08	3.80
10	-	1.11	808	7.27	2.46	6.01	0.00	3.53	3.23	4.54	0.25	0.00	5.53	2.35	3.70
11	-	1.17	849	7.22	2.73	6.66	0.00	3.73	3.12	5.05	0.31	0.00	5.56	2.75	3.85
12	-	1.18	867	7.10	3.26	7.97	0.00	3.73	2.64	5.82	0.17	0.00	6.09	2.23	3.99
1981	-	1.13	832	7.36	2.92	7.13	0.00	3.47	2.93	5.21	0.23	0.00	5.96	2.17	3.69

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.21	870	7.39	3.80	9.04	0.08	4.61	1.11	6.42	0.20	0.00	5.80	1.80	4.75
2	-	1.33	965	7.58	3.68	9.06	0.00	4.89	2.04	6.85	0.09	0.00	6.04	2.81	5.01
3	-	1.14	839	7.33	2.59	6.43	0.00	4.66	2.16	4.78	0.24	0.00	6.12	1.88	3.85
4	-	1.09	807	7.11	2.37	5.88	0.00	3.79	2.94	4.35	0.31	0.00	6.13	1.77	3.49
5	-	1.14	890	7.19	3.47	8.48	0.41	4.00	1.99	6.01	0.28	0.00	6.39	3.00	2.88
6	-	1.15	865	7.43	3.71	8.82	0.41	3.95	1.56	6.15	0.37	0.00	5.92	2.63	3.48
7	-	1.21	934	7.53	4.22	9.91	0.06	4.46	1.09	7.02	0.39	0.00	5.61	4.12	3.23
8	-	1.45	1124	7.52	5.71	13.50	0.03	3.40	2.43	9.76	0.18	0.00	5.88	6.78	3.11
9	-	1.33	1024	7.14	5.07	12.15	0.47	2.86	2.91	8.61	0.11	0.00	6.24	4.85	3.27
10	-	1.25	954	7.16	3.56	8.86	0.00	3.23	3.62	6.58	0.04	0.00	6.47	3.78	3.28
11	-	1.11	838	7.37	3.55	8.44	0.13	3.83	1.81	5.96	0.12	0.00	5.77	2.76	3.19
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.12	837	7.28	3.47	8.20	0.00	3.93	1.68	5.82	0.32	0.00	5.55	2.70	3.49
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.27	907	7.37	4.29	10.10	0.05	3.76	1.81	7.17	0.25	0.00	5.62	2.45	4.92
4	-	1.31	850	7.32	4.09	9.10	0.00	3.92	1.79	6.92	0.18	0.00	4.09	1.92	6.81
5	-	1.48	977	7.38	5.14	11.70	0.00	3.55	2.20	8.71	0.18	0.00	4.78	2.45	7.41
6	-	1.94	1256	7.40	5.14	12.32	0.00	4.49	4.19	10.70	0.14	0.00	4.62	4.34	10.57
7	-	1.76	1198	7.61	5.44	12.85	0.00	4.14	3.26	10.47	0.19	0.01	4.81	5.16	8.07
8	-	1.20	914	8.07	4.72	11.06	0.50	3.15	2.19	7.71	0.24	0.37	5.47	2.34	5.10
9	-	1.22	879	7.86	3.58	8.19	0.00	3.25	3.12	6.39	0.09	0.02	4.27	4.81	3.76
10	-	1.34	974	7.42	3.56	8.37	0.00	3.96	3.41	6.83	0.10	0.00	4.44	5.68	4.18
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	1.08	733	7.20	2.49	5.73	0.00	3.40	2.86	4.40	0.19	0.00	4.31	2.14	4.40
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB4B : QALYUBIA DRAIN AT WADI YEAR : 1980 CODE : 24
THE WATER QUALITY DATA DURING 1980 ARE BASED ON 19 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.34	1001	7.24	2.32	6.21	0.00	4.86	4.10	4.92	0.40	0.00	7.87	1.77	4.52
4	-	1.14	837	7.31	3.23	7.92	0.33	3.39	2.59	5.38	0.24	0.00	6.51	1.25	4.04
5	-	1.03	711	7.41	2.58	5.78	0.00	3.14	2.74	4.43	0.17	0.00	3.91	2.79	3.77
6	-	1.14	810	7.37	2.68	6.42	0.00	4.91	1.53	4.81	0.35	0.00	5.21	1.95	4.44
7	-	1.23	924	7.52	3.45	8.46	0.00	4.76	1.79	6.25	0.21	0.00	6.05	3.15	3.81
8	-	0.91	635	7.59	1.73	4.03	0.00	3.81	2.23	3.01	0.18	0.00	4.55	1.28	3.27
9	-	0.97	692	7.36	1.72	4.17	0.00	3.74	2.61	3.07	0.45	0.00	5.37	0.95	3.50
10	-	1.09	827	7.43	2.00	5.05	0.17	3.94	2.63	3.63	1.12	0.00	6.74	0.94	3.74
11	-	1.35	1014	7.32	2.32	6.09	0.00	5.07	3.90	4.90	0.53	0.00	7.08	3.10	4.25
12	-	1.40	1057	7.56	4.18	10.34	0.00	4.26	2.72	7.81	0.23	0.00	6.29	4.58	4.15
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.10	785	7.28	4.28	9.47	0.26	1.50	3.05	6.46	0.29	0.00	4.81	2.71	3.78
2	-	0.93	689	7.04	2.59	6.16	0.72	2.18	3.06	4.19	0.19	0.00	5.96	0.88	2.78
3	-	1.15	848	7.19	3.32	8.06	0.00	3.42	2.65	5.79	0.18	0.00	6.02	2.18	3.81
4	-	1.12	828	7.46	3.03	7.36	0.00	3.39	2.80	5.33	0.21	0.00	5.96	2.19	3.58
5	-	1.10	825	7.31	3.08	7.44	0.00	4.24	1.76	5.33	0.20	0.00	5.97	2.19	3.36
6	-	1.35	1030	7.70	4.20	10.40	0.05	4.75	1.84	7.62	0.22	0.00	6.64	3.77	4.03
7	-	1.54	1114	8.13	4.87	11.94	0.00	4.21	2.68	9.05	0.21	0.00	6.13	4.17	5.85
8	-	1.16	815	7.70	2.51	6.22	0.00	3.86	3.04	4.67	0.23	0.00	5.95	1.11	4.74
9	-	1.05	737	7.29	1.91	4.65	0.00	3.33	3.57	3.55	0.24	0.00	5.24	1.70	3.80
10	-	1.09	772	7.43	1.62	3.94	0.00	4.56	3.22	3.19	0.24	0.00	4.82	2.70	3.81
11	-	1.14	828	7.18	2.66	6.45	0.00	3.34	3.40	4.88	0.31	0.00	5.45	2.65	3.83
12	-	1.12	821	7.35	2.88	6.87	0.00	4.02	2.03	5.01	0.54	0.00	5.38	2.42	3.80
1981	-	1.15	842	7.35	3.05	7.38	0.00	3.58	2.74	5.43	0.26	0.00	5.69	2.40	3.94

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.17	852	7.19	2.69	6.64	0.00	4.41	2.53	5.01	0.21	0.00	5.86	2.32	3.98
2	-	1.58	1102	7.56	3.13	8.08	0.00	5.48	3.95	6.79	0.16	0.00	6.27	3.26	6.85
3	-	1.24	885	7.12	2.58	6.45	0.00	4.77	2.82	5.02	0.18	0.00	5.91	2.22	4.67
4	-	1.08	783	7.10	2.26	5.49	0.00	3.81	2.95	4.16	0.30	0.00	5.32	2.38	3.52
5	-	1.09	821	7.18	2.74	6.72	0.00	3.49	2.94	4.91	0.20	0.00	6.01	2.51	3.02
6	-	1.01	742	7.27	2.58	6.11	0.00	3.81	1.95	4.38	0.30	0.00	5.33	1.85	3.26
7	-	1.17	870	7.41	3.69	8.64	0.00	3.59	2.28	6.33	0.19	0.00	5.14	3.79	3.45
8	-	1.40	1083	7.17	5.21	12.20	0.00	3.82	2.26	9.08	0.10	0.00	5.29	7.24	2.73
9	-	1.24	943	7.21	4.49	10.69	0.51	2.87	2.70	7.50	0.16	0.00	6.08	3.87	3.31
10	-	1.21	905	7.08	3.44	8.36	0.00	3.59	2.97	6.23	0.05	0.00	5.80	3.52	3.45
11	-	1.01	734	7.55	2.74	6.28	0.00	3.60	2.17	4.65	0.10	0.00	4.52	2.87	3.15
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.02	718	7.40	2.97	6.48	0.00	3.72	1.59	4.83	0.26	0.00	3.82	2.96	3.63
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	1.22	806	7.40	4.49	9.15	0.00	3.57	1.33	7.03	0.16	0.00	3.12	3.42	5.53
5	-	1.24	892	7.52	3.87	9.18	0.00	3.87	2.21	6.75	0.18	0.00	5.43	2.03	5.56
6	-	1.20	862	7.86	3.73	8.80	0.00	3.07	2.80	6.40	0.16	0.00	5.37	2.84	4.22
7	-	1.21	886	7.89	3.66	8.71	0.00	3.96	2.19	6.42	0.11	0.01	5.42	3.26	3.99
8	-	1.16	861	8.03	3.54	8.42	0.00	2.71	3.34	6.16	0.18	0.37	5.09	3.90	3.06
9	-	1.13	785	7.78	2.78	6.43	0.00	3.18	3.22	4.98	0.10	0.02	4.34	3.65	3.48
10	-	1.07	779	7.32	2.02	4.79	0.00	3.90	3.56	3.90	0.04	0.00	4.31	4.19	2.89
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	1.04	715	6.92	2.21	5.10	0.00	3.68	2.82	3.99	0.10	0.00	4.16	2.40	4.02
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EBOS : SAADA BRIDGE YEAR : 1980 CODE : 21
MEASUREMENT POINT CODE 21 ; OPEN DRAIN ; BASIC DATA. WATER LEVEL MEASUREMENTS

DISCHARGE RELATION : $Q = A + B * HM$

Q - DISCHARGE IN M³/S PER SECOND
A = 132.127 - Q INTERCEPT FOR HM = 0
B = -19.459 - SLOPE OF Q-HM RELATION
HM - DISTANCE TO WATERLEVEL FROM FIXED POINT
R2 = 0.850 - CORRELATION COEFFICIENT

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 23 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	69.56	1.20	873.	7.30	2.23	5.70	0.00	4.84	3.06	4.44	0.17	0.00	6.35	1.98	4.17
2	63.35	1.16	837.	7.27	1.86	4.73	0.00	4.49	3.58	3.73	0.26	0.00	6.08	1.99	4.00
3	73.15	1.24	918.	7.19	1.93	5.16	0.00	4.39	4.43	4.06	0.21	0.00	7.69	1.16	4.23
4	65.67	1.10	797.	7.28	2.58	6.26	0.00	3.94	2.72	4.67	0.17	0.00	5.50	2.22	3.69
5	70.84	1.00	696.	7.25	1.74	4.10	0.00	3.51	3.28	3.21	0.23	0.00	4.41	2.21	3.61
6	74.13	0.99	699.	7.40	2.11	5.00	0.00	4.35	1.77	3.69	0.18	0.00	5.05	1.24	3.69
7	92.78	0.98	739.	7.41	3.29	7.79	1.47	3.39	1.44	5.12	0.17	0.00	6.30	0.71	3.12
8	87.89	0.96	683.	7.42	2.25	5.41	0.08	3.53	2.13	3.79	0.22	0.00	5.74	0.12	3.81
9	91.40	0.99	709.	7.44	2.01	4.92	0.00	3.50	2.77	3.55	0.22	0.00	5.94	0.59	3.52
10	118.07	1.08	799.	7.51	2.40	6.07	0.20	3.67	3.00	4.39	0.16	0.00	6.87	0.68	3.67
11	84.90	1.79	1437.	7.51	5.71	15.02	0.10	4.30	4.03	11.65	0.19	0.00	8.42	7.62	4.13
12	85.10	1.37	1032.	7.59	3.38	8.51	0.00	4.01	3.91	6.72	0.17	0.00	6.16	4.76	3.89
1980	976.84	1.15	852.	7.38	2.68	6.68	0.00	3.94	2.98	4.96	0.19	0.00	6.27	2.05	3.77

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	98.74	1.06	755.	7.05	3.27	7.54	0.00	2.08	3.32	5.37	0.15	0.00	5.03	2.27	3.63
2	60.96	0.87	611.	7.00	2.66	5.94	0.17	2.90	1.63	4.01	0.16	0.00	4.70	0.52	3.48
3	80.05	1.01	733.	7.12	3.50	7.99	0.53	3.09	1.66	5.40	0.18	0.00	5.28	1.51	3.54
4	85.67	1.04	767.	7.52	3.21	7.55	0.18	2.73	2.66	5.27	0.17	0.00	5.56	2.16	3.09
5	86.91	1.04	784.	7.43	3.24	7.69	0.55	3.19	2.18	5.30	0.24	0.00	5.92	1.96	3.02
6	77.64	1.35	981.	7.68	4.16	10.12	0.00	3.59	2.83	7.45	0.24	0.00	6.06	3.11	4.94
7	80.20	1.24	897.	8.27	3.36	8.08	0.00	4.33	2.29	6.10	0.21	0.00	5.40	3.16	4.33
8	88.12	1.05	741.	7.64	2.19	5.30	0.00	3.37	3.16	3.95	0.22	0.00	5.46	1.42	3.81
9	93.29	1.05	747.	7.05	2.28	5.53	0.00	2.93	3.53	4.10	0.22	0.00	5.47	1.61	3.70
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	88.73	1.11	806.	7.16	2.22	5.43	0.00	4.17	2.97	4.19	0.24	0.00	5.37	2.61	3.59
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 13 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	75.61	0.95	675.	7.19	1.83	4.41	0.00	4.29	1.87	3.22	0.19	0.00	5.36	0.65	3.57
4	63.94	1.01	711.	7.11	2.22	5.21	0.00	4.20	1.94	3.89	0.22	0.00	4.75	1.58	3.93
5	73.14	0.96	719.	7.18	2.28	5.54	0.17	4.71	1.12	3.90	0.15	0.00	6.00	0.96	2.92
6	71.83	0.93	687.	7.39	2.15	5.15	0.10	4.64	0.93	3.59	0.29	0.00	5.67	0.71	3.07
7	71.69	1.01	791.	7.59	2.69	6.62	0.86	3.89	1.92	4.58	0.34	0.00	6.67	1.58	2.49
8	80.39	1.10	826.	7.62	3.16	7.65	0.00	2.27	3.78	5.50	0.16	0.00	5.95	2.79	2.97
9	80.35	1.12	839.	7.24	4.52	10.34	0.90	2.17	2.56	6.94	0.13	0.00	5.63	2.89	3.31
10	82.72	1.05	775.	7.25	3.25	7.69	0.22	2.47	3.02	5.38	0.04	0.00	5.71	2.09	3.25
11	78.72	1.05	772.	7.45	3.14	7.33	0.00	3.57	2.08	5.20	0.02	0.00	5.13	2.65	3.19
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 7 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	27.63	1.16	776.	7.24	3.26	7.40	0.00	3.64	2.16	5.56	0.16	0.00	4.33	1.98	5.21
6	25.70	1.08	768.	7.79	3.30	7.57	0.00	3.39	2.05	5.44	0.16	0.00	4.84	2.24	3.97
7	28.86	1.07	804.	7.78	3.74	8.57	0.10	3.54	1.53	5.96	0.21	0.00	5.18	3.03	3.03
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	29.46	0.97	699.	8.03	3.07	6.57	0.00	2.46	2.65	4.91	0.09	0.00	3.56	4.07	2.49
10	23.67	0.98	669.	7.62	1.86	4.27	0.00	3.44	3.09	3.36	0.03	0.00	4.04	2.36	3.52
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB06 : SA/DA PS YEAR : 1980 CODE : 11
 MEASUREMENT POINT CODE : 11 PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: Q=Q0+B*H
 Q = DISCHARGE IN M**3 PER SECOND
 Q0 = 0.735 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 B = 0.000 - SLOPE OF CAPACITY CURVE
 H = SUCTION HEAD IN M
 QCAP = 0.735 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 HAV = 0.450 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	1.22	1.34	973	7.49	3.01	7.64	0.00	3.15	2.73	5.97	0.16	0.00	6.44	2.57	4.99
2	0.61	1.30	934	7.18	2.09	5.45	0.00	4.59	4.27	4.40	0.31	0.00	6.63	2.07	4.88
3	1.84	1.35	970	7.37	1.93	5.12	0.00	4.23	3.34	4.21	0.38	0.00	7.05	2.08	5.03
4	1.69	1.57	1073	7.56	3.94	9.39	0.00	4.36	3.73	7.93	0.19	0.00	4.49	4.86	6.86
5	1.93	1.20	804	7.84	2.85	6.58	0.00	3.26	3.36	5.18	0.25	0.00	4.26	2.64	5.15
6	2.00	1.12	791	7.59	2.79	6.64	0.00	3.47	2.91	4.99	0.14	0.00	5.08	2.25	4.17
7	2.07	1.50	1001	7.62	5.04	11.98	0.00	3.69	2.26	8.69	0.23	0.00	5.83	1.22	7.81
8	2.43	2.39	1463	7.95	11.03	24.51	0.43	2.71	2.29	17.44	0.36	0.00	5.44	1.52	15.85
9	2.69	1.27	865	7.57	3.74	8.89	0.00	3.12	2.82	6.45	0.32	0.00	5.56	1.16	6.00
10	2.37	1.60	1249	7.54	5.05	12.96	0.53	4.05	3.23	9.64	0.55	0.00	7.81	5.26	4.41
11	2.01	1.76	1316	7.83	3.79	10.24	0.00	5.14	4.84	8.46	0.52	0.00	8.30	4.40	6.26
12	2.15	1.89	1339	7.75	4.10	10.39	0.00	4.73	5.86	9.43	0.25	0.00	5.36	7.29	7.62
1980	23.01	1.54	1083	7.61	4.24	10.50	0.00	3.92	3.57	8.21	0.31	0.00	5.99	3.14	6.88

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	1.84	1.30	874	7.28	3.79	8.75	0.00	2.24	3.64	6.49	0.62	0.00	4.84	2.25	5.90
2	1.70	1.15	764	7.13	4.10	9.23	0.40	2.52	2.19	6.29	0.24	0.00	5.11	0.34	5.80
3	2.01	1.21	793	7.58	3.45	8.04	0.00	2.89	2.94	5.90	0.14	0.00	4.98	0.86	6.03
4	1.79	1.36	971	7.94	2.85	7.28	0.00	3.34	4.92	5.80	0.20	0.00	6.33	2.85	5.07
5	2.08	1.06	746	7.65	2.18	5.32	0.00	2.86	3.85	3.99	0.16	0.00	5.52	1.44	3.91
6	2.46	1.33	1017	8.14	3.67	9.01	0.00	3.53	3.78	7.02	0.37	0.00	5.68	4.65	4.37
7	2.96	1.67	1257	8.19	4.96	12.12	0.00	5.41	2.17	9.65	0.79	0.00	5.63	6.96	5.42
8	3.90	1.30	862	7.93	2.98	7.20	0.00	4.20	2.85	5.59	0.25	0.00	5.22	1.19	6.48
9	3.23	1.19	805	7.81	2.78	6.71	0.00	4.05	2.56	5.05	0.20	0.00	5.41	0.82	5.63
10	3.19	1.31	901	7.75	3.32	7.97	0.00	4.21	2.70	6.17	0.20	0.00	5.17	2.51	5.60
11	3.01	1.20	839	7.65	2.52	6.06	0.00	3.31	4.11	4.86	0.17	0.00	4.76	3.28	4.42
12	2.52	1.14	793	7.78	2.93	7.00	0.00	3.33	2.94	5.19	0.11	0.00	5.30	1.68	4.60
1981	30.69	1.28	892	7.68	3.26	7.85	0.00	3.65	3.15	6.01	0.29	0.00	5.31	2.47	5.31

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	2.10	1.28	852	7.47	3.87	9.11	0.00	4.60	1.25	6.62	0.08	0.00	5.40	0.57	6.56
2	1.34	1.73	1162	7.60	3.60	9.39	0.00	6.62	2.81	7.82	0.16	0.00	6.79	1.45	9.17
3	1.98	1.17	810	7.19	2.48	6.04	0.00	4.63	2.32	4.62	0.26	0.00	5.38	1.28	5.17
4	2.63	0.95	659	7.32	2.23	5.13	0.00	3.33	2.39	3.77	0.13	0.00	4.57	1.13	3.91
5	2.94	1.07	767	7.57	2.79	6.68	0.00	3.40	2.66	4.85	0.10	0.00	5.49	1.63	3.89
6	2.35	1.13	807	7.47	2.93	6.94	0.00	4.65	1.51	5.14	0.24	0.00	5.18	2.12	4.25
7	3.12	1.21	873	7.63	3.89	9.30	0.28	3.91	1.79	6.56	0.18	0.00	5.97	1.73	4.74
8	3.58	1.14	813	7.62	4.10	9.51	0.57	2.66	2.40	6.52	0.07	0.00	5.64	1.65	4.36
9	3.02	1.47	1045	7.94	4.94	11.86	0.00	2.27	4.12	8.83	0.09	0.00	5.82	3.98	5.56
10	3.45	1.12	795	7.49	3.91	8.81	0.00	2.90	2.25	6.28	0.03	0.00	4.71	2.60	4.28
11	2.90	1.34	938	7.59	4.23	9.70	0.00	3.69	2.57	7.48	0.04	0.00	4.52	4.08	5.32
12	2.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	32.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 10 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	2.25	1.43	902	7.47	3.90	8.83	0.00	4.22	2.44	7.11	0.12	0.00	3.99	2.07	7.83
2	1.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2.46	1.35	923	7.35	4.69	10.58	0.00	3.48	2.15	7.88	0.15	0.00	4.52	3.28	5.86
4	2.32	1.38	898	7.09	4.33	9.41	0.00	3.17	2.81	7.49	0.20	0.00	3.59	3.47	6.62
5	2.47	1.20	852	7.94	3.96	9.13	0.00	3.45	2.07	6.58	0.19	0.00	5.02	2.77	4.50
6	2.68	1.18	837	8.24	3.10	7.30	0.00	3.26	3.07	5.50	0.35	0.00	4.96	2.85	4.37
7	3.34	1.10	793	8.53	3.62	8.30	0.00	3.31	1.96	5.88	0.18	0.00	5.00	2.48	3.84
8	3.00	1.18	813	8.17	3.13	7.31	0.00	2.39	4.12	5.65	0.11	0.00	4.62	3.33	3.94
9	2.47	1.12	769	7.84	3.34	7.10	0.00	2.82	2.90	5.65	0.11	0.00	3.24	4.29	3.93
10	2.47	1.08	757	8.27	2.14	4.82	0.00	4.09	3.05	4.04	0.07	0.00	3.45	4.42	3.38
11	1.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	1.99	1.03	701	8.11	2.63	5.88	0.00	3.40	2.40	4.48	0.09	0.00	3.95	2.28	4.14
1983	28.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB07 : SAUD BRIDGE YEAR : 1980 CODE : 21
MEASUREMENT POINT CODE: 21 ; OPEN DRAIN ; BASIC DATA: WATER LEVEL MEASUREMENTS

DISCHARGE RELATION : $Q = A + B * HM$

Q - DISCHARGE IN M**3 PER SECOND
A = 69.688 - Q INTERCEPT FOR HM = 0
B = -18.683 - SLOPE OF Q-HM RELATION
HM= - DISTANCE TO WATERLEVEL FROM FIXED POINT
R2= 0.640 - CORRELATION COEFFICIENT

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	84.58	1.26	903	7.31	3.03	7.58	0.00	4.08	3.02	5.71	0.21	0.00	6.32	1.81	4.87
2	74.83	1.55	1064	7.35	4.41	10.93	0.00	4.27	2.88	8.35	0.20	0.00	6.26	2.21	7.22
3	82.42	1.29	950	7.56	2.42	6.37	0.00	4.31	4.11	4.97	0.18	0.00	7.44	1.66	4.49
4	74.68	1.18	822	7.38	3.21	7.37	0.00	3.31	2.93	5.67	0.20	0.00	4.35	3.26	4.50
5	70.07	1.09	760	7.25	2.77	6.43	0.00	3.15	2.90	4.83	0.24	0.00	4.59	2.37	4.16
6	76.21	1.04	731	7.28	2.33	5.64	0.00	3.95	2.22	4.09	0.22	0.00	5.71	0.38	4.39
7	98.11	1.14	766	7.46	3.93	8.79	0.00	2.98	1.96	6.17	0.16	0.00	4.70	1.21	5.34
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	92.31	1.06	748	7.43	2.86	6.77	0.00	3.28	2.38	4.80	0.27	0.00	5.51	1.07	4.08
10	92.14	1.11	789	7.31	1.99	4.90	0.00	3.95	2.81	3.66	0.84	0.00	5.71	1.09	4.46
11	86.24	1.33	994	7.54	2.81	7.12	0.00	4.58	3.03	3.47	0.95	0.00	6.50	3.12	4.41
12	94.51	1.43	1062	7.47	3.48	8.76	0.00	4.11	3.85	6.94	0.41	0.00	6.13	4.62	4.57
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	62.21	1.23	862	7.08	3.51	8.16	0.00	2.35	3.49	5.99	0.71	0.00	5.00	2.75	4.80
2	56.51	1.01	684	7.19	3.88	8.44	0.59	1.69	2.46	5.58	0.23	0.00	4.73	0.73	4.49
3	79.10	1.11	793	7.36	2.87	6.79	0.00	3.06	2.93	4.97	0.45	0.00	5.22	2.10	4.09
4	83.67	1.10	811	7.40	3.32	8.00	0.48	2.46	3.19	5.59	0.24	0.00	6.14	1.71	3.63
5	87.07	0.99	731	7.17	2.75	6.50	0.17	3.85	1.57	4.53	0.24	0.00	5.59	1.38	3.22
6	75.90	1.06	773	7.69	2.18	5.41	0.00	4.06	2.65	3.99	0.22	0.00	6.06	1.36	3.50
7	80.08	1.13	826	7.82	2.92	7.02	0.00	3.42	3.00	5.23	0.21	0.00	5.39	2.80	3.66
8	91.50	1.13	813	7.63	2.37	5.84	0.00	3.79	3.42	4.51	0.22	0.00	5.54	1.47	4.92
9	96.04	1.27	887	7.45	2.11	5.26	0.00	3.50	5.00	4.34	0.22	0.00	5.28	3.97	3.81
10	97.63	1.14	822	7.42	2.61	6.36	0.00	3.45	3.37	4.83	0.22	0.00	5.44	2.62	3.81
11	91.81	1.15	817	7.32	2.75	6.57	0.00	3.91	2.72	5.00	0.23	0.00	5.12	2.41	4.34
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 10 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	94.47	1.15	798	7.17	1.91	4.59	0.00	4.56	3.35	3.81	0.12	0.00	4.38	3.34	4.13
4	86.25	1.11	789	7.16	2.39	5.92	0.00	3.69	3.03	4.39	0.22	0.00	6.02	1.03	4.29
5	88.54	1.06	760	7.28	2.57	6.24	0.00	3.14	3.03	4.52	0.20	0.00	5.75	1.25	3.89
6	81.05	1.05	768	7.31	2.84	6.74	0.00	4.13	1.68	4.84	0.18	0.00	5.43	1.95	3.44
7	84.32	1.12	874	7.47	3.69	8.97	0.97	4.30	1.32	6.19	0.17	0.00	6.59	2.36	3.02
8	93.33	1.13	889	7.33	4.74	11.11	1.70	2.88	1.87	7.30	0.13	0.00	6.44	3.09	2.64
9	90.35	1.17	868	7.25	4.56	10.39	0.34	2.77	2.19	7.17	0.14	0.00	5.30	3.59	3.39
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 9 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	78.65	1.09	760	7.66	3.73	8.11	0.00	2.81	2.20	5.90	0.17	0.00	4.00	3.18	3.90
6	76.88	1.19	857	7.63	4.02	9.18	0.00	3.14	2.39	6.69	0.15	0.01	4.78	3.64	3.94
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	89.91	1.30	929	8.17	4.57	10.86	0.48	3.12	2.46	7.63	0.26	0.45	5.61	2.63	4.76
9	86.93	1.10	800	8.18	3.05	6.98	0.00	3.37	2.72	5.31	0.19	0.02	4.37	3.99	3.18
10	86.19	1.10	759	7.86	2.40	5.62	0.00	3.57	3.15	4.40	0.11	0.00	4.43	2.62	4.18
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	87.38	1.02	692	7.21	2.65	5.72	0.00	3.46	2.11	4.42	0.26	0.00	3.46	2.66	4.14
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB08 : SAHR BAGAR BRIDGE YEAR : 1980 CODE : 23
MEASUREMENT POINT CODE: 23 ; OPEN DRAIN ; BASIC DATA: WATERLEVEL AND FLOAT MEASUREMENTS

DISCHARGE RELATION: $Q=0.85 \cdot AS \cdot VF$
Q - DISCHARGE IN M**3 PER SECOND
0.85 - FACTOR
AS - WETTED CROSS SECTION IN M**2
VF - FLOAT VELOCITY IN M PER SECOND

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 23 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	96.74	1.30	1102.	7.27	2.03	5.45	0.00	6.06	5.05	4.77	0.24	0.00	6.91	4.11	5.10
2	81.63	1.35	1125.	7.43	2.77	7.31	0.00	5.50	4.57	6.21	0.22	0.00	6.82	3.84	5.84
3	72.98	1.27	954.	7.18	2.48	6.49	0.00	4.84	3.41	5.04	0.20	0.00	7.23	2.33	3.94
4	89.24	1.23	899.	7.26	2.89	7.30	0.00	3.49	3.73	5.50	0.14	0.00	6.58	2.06	4.27
5	61.23	1.11	755.	7.31	2.23	5.26	0.00	3.58	3.28	4.14	0.23	0.00	4.45	2.23	4.55
6	75.03	1.10	769.	7.30	2.94	7.01	0.00	3.61	2.26	5.04	0.19	0.00	5.32	0.94	4.64
7	96.37	1.14	810.	7.53	3.96	9.33	1.13	3.51	1.50	6.26	0.19	0.00	6.14	0.53	4.79
8	106.37	1.11	795.	7.24	2.56	6.09	0.03	3.37	2.22	4.28	1.36	0.00	5.61	0.81	4.73
9	92.09	1.10	786.	7.39	2.66	6.43	0.00	3.27	2.73	4.61	0.59	0.00	5.80	1.06	4.32
10	75.98	1.12	808.	7.34	2.25	5.69	0.00	3.99	3.18	4.26	0.16	0.00	6.54	0.60	4.44
11	88.99	1.32	973.	7.35	2.20	5.70	0.00	4.49	4.00	4.54	0.88	0.00	6.60	2.79	4.48
12	93.51	1.45	1116.	7.39	4.07	10.13	0.00	3.82	3.91	8.00	0.22	0.00	6.02	6.41	3.52
1980	1030.16	1.26	912.	7.33	2.73	6.85	0.00	4.12	3.31	5.26	0.41	0.00	6.21	2.33	4.56

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	83.50	1.17	840.	7.27	3.86	8.84	0.00	2.28	3.16	6.76	0.32	0.00	4.90	3.30	3.93
2	68.25	1.15	786.	7.10	3.16	7.48	0.00	3.29	2.49	5.38	0.29	0.00	5.40	0.89	5.17
3	101.82	1.08	768.	7.27	3.06	7.23	0.00	3.38	2.27	5.13	0.21	0.00	5.50	1.34	4.15
4	81.57	1.37	1044.	7.37	4.98	11.81	0.00	2.99	3.01	8.62	0.21	0.00	5.71	5.52	3.61
5	80.21	1.10	810.	7.25	2.85	6.90	0.00	3.81	2.41	5.02	0.23	0.00	5.81	2.04	3.61
6	55.93	1.07	754.	7.58	1.10	2.77	0.00	4.82	3.76	2.27	0.20	0.00	5.36	1.89	3.78
7	99.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	107.03	1.07	732.	7.62	2.99	7.02	0.00	3.12	2.36	4.96	0.21	0.00	5.37	0.36	4.92
9	92.64	1.05	735.	7.25	2.61	6.20	0.00	3.07	2.86	4.49	0.22	0.00	5.34	1.02	4.28
10	88.96	1.16	827.	7.21	3.13	7.42	0.00	3.44	2.81	5.53	0.22	0.00	5.16	2.54	4.29
11	103.12	1.19	827.	7.19	2.57	6.20	0.00	3.34	3.79	4.85	0.24	0.00	4.98	2.64	4.60
12	113.77	1.24	901.	7.26	3.26	7.87	0.00	3.72	2.84	5.91	0.44	0.00	5.51	3.17	4.23
1981	1075.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	99.75	1.21	939.	7.17	2.98	7.25	0.00	3.86	2.84	5.43	0.15	0.00	5.65	1.40	5.19
2	79.80	1.30	936.	7.54	2.78	7.11	0.00	4.85	2.99	5.51	0.14	0.00	6.65	1.77	5.07
3	100.91	1.17	845.	7.37	2.64	6.44	0.00	4.27	2.71	4.93	0.26	0.00	5.45	2.60	4.11
4	72.62	1.34	993.	7.14	3.82	9.49	0.00	3.72	3.19	7.09	0.24	0.00	6.43	2.99	4.82
5	83.02	1.12	803.	7.19	3.12	7.49	0.00	3.55	2.36	5.36	0.19	0.00	5.81	1.42	4.23
6	82.54	1.14	823.	7.32	3.52	8.30	0.00	3.27	2.35	5.89	0.24	0.00	5.58	2.03	4.15
7	87.17	1.22	932.	7.39	4.36	10.54	1.29	3.54	1.90	7.19	0.28	0.00	6.73	2.57	3.61
8	110.97	1.23	924.	7.40	4.47	10.69	0.86	2.69	2.78	7.39	0.15	0.00	6.33	2.99	3.70
9	104.88	1.32	991.	7.35	4.75	11.31	0.03	2.38	3.48	8.13	0.14	0.00	5.89	4.54	3.70
10	92.07	1.36	1003.	7.18	2.81	6.95	0.00	2.07	6.86	5.93	0.05	0.00	5.04	6.56	3.31
11	93.81	1.05	750.	7.41	2.90	6.63	0.00	3.37	2.47	4.95	0.05	0.00	4.44	3.10	3.30
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	85.95	1.19	796.	7.21	4.46	9.58	0.00	3.04	1.71	6.86	0.19	0.00	4.07	2.20	5.53
5	96.09	1.43	963.	7.42	4.84	10.74	0.00	3.65	2.29	8.33	0.16	0.00	4.06	3.93	6.43
6	108.55	1.29	911.	7.80	4.61	10.42	0.00	3.85	1.63	7.63	0.12	0.00	4.68	3.58	4.98
7	116.34	1.24	907.	7.64	4.27	9.89	0.00	3.73	1.93	7.18	0.13	0.00	5.13	3.83	4.00
8	111.00	1.29	952.	7.84	5.37	12.09	0.00	2.60	2.44	8.52	0.12	0.12	4.89	4.82	3.84
9	109.04	1.07	757.	8.39	3.30	7.26	0.00	2.34	3.22	5.50	0.10	0.18	3.70	4.11	3.16
10	113.16	1.17	779.	7.89	2.07	4.97	0.00	3.59	4.18	4.09	0.07	0.43	4.05	2.75	4.72
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	116.29	1.02	683.	7.33	2.43	5.28	0.00	3.46	2.36	4.14	0.23	0.02	3.39	2.66	4.14
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB09 : BMR BAGAR IRR PS YEAR : 1980 CODE : 11
 MEASUREMENT POINT CODE: 11 : PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION. Q=Q0+B*H
 Q - DISCHARGE IN M**3 PER SECOND
 Q0 = 0.364 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 B = 0.000 - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 QCAP = 0.364 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 HAV = 2.600 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	3.34	1.36	960	7.08	3.03	7.65	0.00	5.16	2.62	5.98	0.21	0.00	6.27	1.88	5.83
2	2.52	1.27	905	7.17	3.06	7.55	0.00	3.67	3.49	5.00	0.22	0.00	5.77	2.60	4.81
3	3.56	1.21	887	7.43	2.10	5.48	0.00	3.56	4.70	4.28	0.19	0.00	6.96	1.79	4.03
4	3.71	1.23	807	7.36	2.96	6.77	0.00	3.54	3.11	5.40	0.19	0.00	4.05	2.32	5.89
5	3.67	1.19	794	7.47	2.76	6.26	0.00	3.51	3.20	5.06	0.18	0.00	3.80	3.17	4.98
6	3.57	1.11	769	7.53	1.89	4.60	0.00	4.26	3.29	3.67	0.13	0.00	4.96	2.09	4.28
7	4.04	1.12	812	7.47	3.02	7.28	0.00	4.01	1.90	5.19	0.36	0.00	5.88	1.30	4.36
8	4.03	1.09	784	7.33	2.57	6.07	0.00	3.66	2.16	4.38	0.90	0.00	5.23	1.60	4.30
9	3.64	0.90	672	7.28	2.31	5.33	0.00	3.13	2.26	3.80	0.46	0.00	4.75	1.02	3.88
10	3.59	1.02	729	7.35	2.15	5.20	0.00	3.46	2.62	3.75	0.52	0.00	5.64	0.85	3.86
11	3.87	1.20	894	7.21	2.20	5.66	0.00	4.45	3.63	4.42	0.20	0.00	6.63	2.33	3.81
12	3.00	1.06	786	7.55	3.62	8.15	0.00	2.78	2.41	5.83	0.15	0.00	4.64	3.66	2.89
1980	42.55	1.15	814	7.33	2.59	6.28	0.00	3.78	2.93	4.75	0.32	0.00	5.38	2.01	4.41

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	3.85	0.90	629	7.04	3.22	6.83	0.00	1.83	2.41	4.69	0.15	0.00	3.98	2.05	3.05
2	2.67	1.18	806	7.02	3.69	8.58	0.00	2.59	2.91	6.12	0.23	0.00	5.24	1.29	5.32
3	3.33	1.09	745	7.14	3.49	7.91	0.00	3.32	1.76	5.56	0.18	0.00	4.85	1.18	4.78
4	3.26	0.86	601	7.43	2.52	5.59	0.00	2.66	1.97	3.83	0.15	0.00	4.50	0.83	3.27
5	3.36	0.97	714	7.34	3.13	7.09	0.00	3.20	1.77	4.93	0.21	0.00	4.81	1.99	3.31
6	3.02	1.46	997	7.65	2.87	7.26	0.00	4.48	4.23	5.99	0.23	0.00	5.80	2.50	6.63
7	3.33	1.58	926	7.74	1.70	4.26	0.00	4.54	6.31	3.96	0.30	0.00	4.56	0.34	10.21
8	3.92	1.14	757	7.53	2.25	5.42	0.00	3.55	3.37	4.18	0.21	0.00	5.11	0.74	5.46
9	3.44	1.00	705	7.22	2.10	4.94	0.00	3.51	2.77	3.73	0.20	0.00	4.67	2.09	3.45
10	3.21	1.01	707	7.45	2.22	5.15	0.00	3.21	3.01	3.91	0.18	0.00	4.44	2.37	3.50
11	3.45	1.16	812	7.36	2.79	6.57	0.00	3.72	2.90	5.08	0.19	0.00	4.69	2.91	4.28
12	3.17	0.90	640	7.51	2.41	5.30	0.00	3.02	2.15	3.87	0.18	0.00	3.94	2.38	2.91
1981	40.03	1.10	750	7.32	2.61	6.11	0.00	3.29	2.96	4.62	0.20	0.00	4.70	1.72	4.65

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	3.15	1.13	785	7.23	2.59	6.27	0.00	4.06	2.51	4.69	0.18	0.00	5.46	1.10	4.87
2	1.80	1.47	1050	7.29	2.49	6.61	0.00	5.28	4.52	5.51	0.17	0.00	7.03	2.23	6.21
3	2.96	0.95	670	7.18	1.89	4.44	0.00	4.00	2.19	3.32	0.13	0.00	4.69	1.68	3.26
4	2.70	1.35	924	7.11	3.14	7.75	0.00	4.33	3.18	6.08	0.16	0.00	5.64	2.00	6.01
5	2.81	1.09	799	7.27	3.16	7.60	0.25	3.68	2.08	5.35	0.18	0.00	6.01	1.37	3.91
6	2.85	1.04	786	7.46	2.91	6.90	0.00	3.71	2.24	5.01	0.28	0.00	5.37	1.83	4.04
7	3.93	0.83	639	7.61	2.81	6.33	0.80	2.84	1.52	4.15	0.20	0.00	5.16	1.58	1.97
8	3.85	0.63	457	7.49	2.18	4.37	0.10	2.07	1.35	2.85	0.09	0.00	3.52	1.19	1.64
9	3.17	1.01	719	7.19	3.32	7.37	0.00	1.55	3.52	5.28	0.11	0.00	4.35	2.95	3.17
10	3.51	0.63	444	7.62	1.76	3.62	0.00	1.85	1.96	2.43	0.03	0.00	3.50	0.97	1.85
11	3.17	0.79	551	7.82	2.32	4.86	0.00	2.77	1.70	3.47	0.03	0.00	3.45	1.85	2.67
12	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	37.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	3.09	0.91	630	7.64	1.92	4.37	0.00	3.84	1.90	3.26	0.16	0.00	4.16	1.46	3.53
2	2.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	2.93	0.86	585	7.57	3.04	6.15	0.00	2.38	1.71	4.34	0.11	0.00	3.31	1.98	3.25
4	3.19	0.75	486	7.56	2.39	4.71	0.00	1.72	2.13	3.32	0.11	0.00	2.99	0.92	3.36
5	3.51	1.07	762	7.34	3.26	7.17	0.00	3.56	1.96	5.41	0.13	0.00	3.87	3.72	3.47
6	3.43	1.02	715	7.70	2.67	6.01	0.00	3.14	2.67	4.55	0.10	0.00	4.09	2.87	3.50
7	3.73	1.09	786	7.99	3.61	8.10	0.00	3.26	1.91	5.80	0.29	0.01	4.58	2.96	3.71
8	3.92	1.00	689	8.38	4.09	8.70	0.24	1.97	2.10	5.84	0.18	0.30	4.01	1.95	3.82
9	3.51	1.03	742	8.60	3.39	7.52	0.00	2.73	2.44	5.45	0.14	0.39	3.90	3.80	2.67
10	4.03	1.08	765	7.28	2.46	5.73	0.00	3.69	3.08	4.54	0.05	0.41	3.85	3.87	3.24
11	3.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	3.70	0.97	657	6.73	2.11	4.79	0.00	3.55	2.43	3.65	0.07	0.02	4.01	1.80	3.88
1983	40.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB10 : BAHAR BAGAR DRAINAGE PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 : PUMP STATION : BASIC DATA : PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = GO + B \cdot H$
 Q = DISCHARGE IN M³ PER SECOND
 GO = 6.112 - DISCHARGE IN M³ PER SECOND AT ZERO SUCTION HEAD
 B = 0.000 - SLOPE OF CAPACITY CURVE
 H = SUCTION HEAD IN M
 $QCAP$ = 6.112 - AVERAGE PUMP CAPACITY IN M³ PER SECOND
 HAV = 1.590 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	18.20	6.37	3787	7.56	12.53	32.34	0.00	9.87	11.96	41.40	0.37	0.00	4.50	8.76	50.34
2	10.34	5.06	3355	7.53	13.29	35.12	0.00	6.99	9.60	38.27	0.71	0.00	6.24	5.05	44.28
3	13.49	6.85	4029	7.82	14.91	40.76	0.00	7.46	12.45	47.05	0.41	0.00	7.06	5.08	55.24
4	14.54	4.91	2942	7.52	11.84	31.50	0.00	6.56	8.67	32.67	0.37	0.00	6.73	4.57	36.97
5	13.05	6.67	3831	7.51	14.96	36.54	0.00	6.51	12.19	45.76	0.61	0.00	3.74	6.04	55.29
6	11.73	8.65	5150	7.13	14.15	40.70	0.00	13.37	16.81	54.97	1.44	0.00	7.71	7.36	71.53
7	11.16	8.65	4504	7.49	18.22	50.75	0.00	11.85	13.21	64.50	0.69	0.00	7.26	17.07	65.90
8	18.20	6.12	3782	7.44	13.32	34.84	0.00	9.42	10.50	42.04	0.36	0.00	5.21	11.47	45.66
9	23.63	5.15	3208	7.47	12.26	31.22	0.00	8.08	8.45	35.26	0.55	0.00	4.89	10.44	37.05
10	24.60	5.03	3171	7.54	11.36	31.05	0.00	9.08	8.39	33.58	0.24	0.00	7.27	8.21	35.81
11	22.22	5.69	3869	7.26	11.72	32.81	0.00	10.68	11.09	38.65	1.60	0.00	7.49	14.46	40.06
12	23.41	6.14	4209	7.32	14.35	37.19	0.00	8.94	11.37	45.74	0.73	0.00	4.94	25.46	36.39
1980	204.56	6.13	3811	7.43	13.28	35.55	0.00	9.06	10.87	41.91	0.66	0.00	6.02	11.13	45.37

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	19.25	4.86	3122	7.36	12.43	31.28	0.00	4.17	11.28	34.56	0.59	0.00	4.78	13.41	32.41
2	8.65	6.47	3925	7.10	11.05	31.21	0.00	15.19	10.19	39.37	0.27	0.00	7.14	7.57	50.31
3	13.84	5.96	3555	7.21	12.02	31.23	0.00	11.43	9.11	38.51	0.24	0.00	4.82	7.89	46.54
4	15.38	4.41	2687	7.42	9.64	24.30	0.00	6.89	9.47	27.58	0.35	0.00	4.44	8.30	31.53
5	11.97	5.49	3248	7.50	10.78	28.03	0.00	8.87	11.11	34.06	0.35	0.00	4.83	7.08	42.49
6	9.75	6.43	4351	8.07	14.50	38.83	0.00	10.48	11.14	47.68	0.45	0.00	5.82	21.71	42.21
7	12.23	5.03	3478	8.17	15.13	38.99	0.00	7.59	6.05	39.52	0.58	0.00	4.75	10.55	26.97
8	19.21	4.45	2536	7.73	8.09	21.08	0.00	8.43	9.69	24.36	0.36	0.00	4.90	2.59	35.34
9	19.47	4.03	2276	7.27	5.64	15.12	0.00	6.91	13.66	18.09	0.31	0.00	5.14	2.49	31.35
10	19.52	3.67	2180	7.61	8.32	20.68	0.00	6.47	7.31	21.85	0.27	0.00	4.45	4.99	26.48
11	17.12	5.95	3567	7.53	12.03	31.03	0.00	10.56	9.91	38.49	0.46	0.00	4.62	8.65	46.15
12	18.35	5.93	3594	7.57	10.02	26.57	0.00	10.48	14.22	35.21	0.34	0.00	4.75	10.55	44.95
1981	184.74	5.06	3091	7.46	10.34	26.95	0.00	8.51	10.38	31.78	0.38	0.00	5.02	8.91	37.13

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	16.06	7.08	4199	7.16	11.27	30.81	0.00	12.71	15.54	42.35	0.43	0.00	5.44	8.70	56.89
2	9.29	9.35	5840	7.28	15.09	43.28	0.00	18.14	16.13	62.49	0.43	0.00	7.10	16.19	73.90
3	12.39	4.85	2902	7.18	10.23	26.15	0.00	8.48	9.17	30.39	0.19	0.00	4.66	7.11	36.41
4	12.52	5.46	3348	7.16	10.91	28.47	0.00	8.60	11.74	34.78	0.36	0.00	4.90	10.28	40.29
5	13.60	6.23	3777	7.30	12.17	32.20	0.00	10.54	11.50	40.30	0.42	0.00	5.18	9.79	47.86
6	13.62	7.43	4684	7.31	13.94	37.79	0.00	12.23	14.03	50.50	0.63	0.00	5.59	16.07	55.64
7	17.43	6.40	4226	7.37	13.94	38.17	0.00	10.59	11.16	45.98	0.39	0.00	6.65	17.84	43.60
8	23.85	5.69	3808	7.19	15.79	40.74	0.00	8.82	6.92	44.31	0.23	0.00	5.75	18.81	35.72
9	20.68	4.96	3235	7.50	15.11	38.36	0.00	7.48	5.42	38.38	0.20	0.00	5.91	12.18	33.42
10	24.23	2.93	1842	7.39	8.50	20.33	0.00	4.74	5.42	19.15	0.05	0.00	4.44	6.45	18.59
11	25.68	4.99	3005	7.79	11.42	28.01	0.00	8.06	8.68	33.04	0.07	0.00	3.89	8.76	37.21
12	24.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	214.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	22.00	4.00	2327	7.70	8.38	21.41	0.00	7.66	7.63	23.17	0.26	0.00	4.89	3.45	30.32
2	7.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	14.43	4.25	2589	7.81	9.09	22.31	0.00	6.22	10.14	25.99	0.43	0.00	3.81	9.01	29.97
4	13.49	4.82	2807	7.48	10.78	25.99	0.00	6.54	9.27	30.32	0.87	0.00	3.63	5.90	37.47
5	12.63	6.08	3619	7.56	13.71	33.96	0.00	9.86	8.45	41.47	0.54	0.00	4.03	8.32	47.96
6	10.76	8.60	5604	7.85	17.38	46.48	0.00	13.57	13.33	63.72	1.00	0.00	5.29	22.70	63.63
7	11.24	8.23	5548	7.95	18.04	48.36	0.00	12.16	12.88	63.83	0.53	0.00	5.63	27.76	56.02
8	12.37	7.33	5028	8.14	19.16	49.20	0.00	9.82	9.46	59.48	0.33	0.00	5.14	32.07	41.88
9	14.37	4.94	3300	8.12	10.16	25.72	0.00	8.94	11.66	32.62	0.16	0.11	3.91	18.58	30.78
10	16.30	6.98	4480	7.75	11.98	32.18	0.00	13.40	15.24	45.34	0.09	0.25	4.63	19.05	50.13
11	19.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	26.54	4.99	3263	7.59	9.80	25.45	0.00	11.04	9.88	31.70	0.23	0.01	4.57	15.47	32.80
1983	181.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EB11 : LAHR BAGAR OUTFALL YEAR : 1980 CODE : 24
THE WATER QUALITY DATA DURING 1980 ARE BASED ON 23 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	3.22	2121.	7.01	8.55	21.91	0.00	5.95	6.00	20.91	0.37	0.00	5.88	8.37	18.99
2	-	3.15	2067.	7.28	8.30	21.17	0.00	5.65	6.20	20.21	0.39	0.00	5.72	8.24	18.49
3	-	2.05	1410.	7.42	4.45	11.95	0.00	5.35	5.40	10.32	0.19	0.00	7.67	3.66	9.84
4	-	2.21	1488.	7.38	6.32	16.13	0.00	5.04	3.90	13.38	0.23	0.00	6.69	4.28	11.56
5	-	2.07	1390.	7.31	6.63	15.83	0.00	3.23	4.72	13.22	0.12	0.00	5.01	6.14	10.14
6	-	2.52	1672.	7.01	6.30	17.02	0.00	5.56	5.07	14.52	0.31	0.00	8.55	2.52	14.42
7	-	1.58	1099.	7.46	4.37	10.84	0.00	4.35	2.90	8.32	0.55	0.00	6.23	2.54	7.37
8	-	1.44	1006	7.89	2.93	7.21	0.00	3.81	3.58	5.63	1.62	0.00	5.56	2.57	6.51
9	-	2.19	1420.	7.44	5.73	14.26	0.00	4.54	4.41	12.12	0.79	0.00	5.67	3.69	12.50
10	-	1.88	1423.	7.37	5.06	13.15	0.00	5.12	3.70	10.63	0.98	0.00	7.32	6.55	6.56
11	-	2.65	1901.	7.56	8.50	22.88	0.38	4.78	4.59	18.57	0.91	0.00	9.75	2.02	16.91
12	-	2.54	1794.	7.61	7.49	18.90	0.00	4.77	5.29	16.79	0.33	0.00	5.93	9.45	11.85
1980	-	2.31	1563.	7.34	6.27	16.11	0.00	4.84	4.64	13.66	0.57	0.00	6.66	5.01	12.04

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	3.23	2145.	7.48	9.59	24.26	0.00	3.47	7.44	22.41	0.31	0.00	5.92	9.19	18.52
2	-	2.86	1769.	7.06	6.26	16.53	0.00	6.85	5.41	15.50	0.39	0.00	6.61	2.46	19.03
3	-	2.61	1574.	7.13	6.29	15.90	0.00	5.19	5.34	14.42	0.27	0.00	5.64	1.98	17.60
4	-	1.68	1109.	7.45	4.98	12.01	0.00	3.44	3.71	9.41	0.24	0.00	5.47	2.74	8.59
5	-	1.51	1044.	7.31	4.54	10.94	0.00	4.30	2.50	8.37	0.23	0.00	5.60	2.94	6.87
6	-	2.40	1597.	7.69	6.16	15.78	0.00	5.08	5.29	14.04	0.22	0.00	6.11	5.67	12.85
7	-	1.50	1017.	7.99	3.12	7.83	0.00	4.53	4.05	6.45	0.22	0.00	5.70	2.69	6.87
8	-	1.74	1102	7.56	3.64	9.18	0.00	4.34	4.57	7.76	0.23	0.00	5.67	1.41	10.02
9	-	1.92	1244.	7.19	3.52	9.01	0.00	4.04	6.98	8.26	0.23	0.00	5.40	3.95	10.16
10	-	1.91	1237.	7.33	4.50	11.05	0.00	4.32	4.98	9.70	0.23	0.00	4.94	4.02	10.26
11	-	2.28	1468	7.26	5.74	14.04	0.00	4.99	4.96	12.81	0.26	0.00	4.75	5.31	12.95
12	-	2.22	1462.	7.29	5.96	14.77	0.00	4.41	5.07	12.97	0.18	0.00	5.34	5.43	11.87
1981	-	2.15	1395.	7.34	5.39	13.53	0.00	4.58	5.02	11.82	0.25	0.00	5.59	3.99	12.09

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 14 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.77	1119.	7.00	3.47	8.71	0.00	4.95	4.77	7.65	0.15	0.00	5.22	2.12	10.18
2	-	3.14	1881.	7.37	6.80	17.84	0.00	7.38	5.57	17.30	0.23	0.00	6.18	1.66	22.64
3	-	2.07	1316.	7.12	5.31	13.15	0.00	5.35	3.66	11.26	0.19	0.00	5.43	2.71	12.31
4	-	1.99	1318.	7.13	4.94	12.45	0.00	5.58	3.73	10.67	0.16	0.00	5.75	3.81	10.58
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	2.23	1434.	7.44	5.79	14.26	0.00	5.54	3.85	12.55	0.33	0.00	5.14	4.28	12.86
7	-	2.30	1592.	7.34	7.31	18.49	0.00	5.54	2.93	15.05	0.30	0.00	6.77	5.56	11.50
8	-	2.25	1576.	7.13	8.42	20.30	0.00	4.15	3.16	16.11	0.17	0.00	5.85	7.33	10.41
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	1.51	1037.	7.06	4.65	11.08	0.00	2.82	4.02	8.60	0.03	0.00	5.23	3.64	6.74
11	-	2.1	1332.	7.26	5.88	13.97	0.00	4.80	3.77	12.18	0.12	0.00	4.91	3.97	12.42
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 9 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	2.12	1306.	7.39	5.69	13.23	0.00	4.67	3.96	11.82	0.27	0.00	4.00	3.67	13.04
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	2.91	1695.	7.31	8.99	20.21	0.00	3.63	5.15	18.64	0.19	0.00	3.60	3.41	20.79
5	-	2.14	1430.	7.42	8.34	18.99	0.00	3.79	2.75	15.06	0.17	0.00	4.70	6.07	11.00
6	-	1.78	1263.	7.67	6.56	15.38	0.00	4.43	2.14	11.89	0.18	0.00	5.24	6.01	7.38
7	-	1.80	1309.	7.91	6.58	15.68	0.00	4.36	2.44	12.14	0.21	0.00	5.56	6.71	6.89
8	-	1.71	1218.	7.90	6.52	15.00	0.00	3.78	2.45	11.51	0.18	0.00	4.91	6.42	6.60
9	-	2.01	1312.	7.86	4.96	11.83	0.00	5.56	3.92	10.80	0.11	0.00	4.20	5.61	10.58
10	-	1.90	1266.	7.94	4.64	11.28	0.00	5.32	4.05	10.04	0.07	0.00	4.63	5.42	9.43
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	1.28	822.	7.73	2.66	6.11	0.00	3.71	3.74	5.12	0.10	0.00	3.83	2.67	6.18
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION EB12 - BATHIN CANAL YEAR 1980 CODE 24
THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.19	807	7.90	2.95	7.00	0.00	3.18	3.24	5.29	0.20	0.00	5.03	1.97	4.92
2	-	1.21	793	7.52	2.56	6.03	0.00	3.54	3.51	4.80	0.17	0.00	4.48	1.72	5.81
3	-	1.40	948	7.82	2.71	6.88	0.00	3.44	4.84	5.59	0.17	0.00	5.94	1.98	6.32
4	-	1.26	863	7.62	4.82	11.02	0.57	2.54	2.36	7.54	0.15	0.00	5.47	1.55	5.55
5	-	1.02	670	7.80	4.06	8.01	0.00	2.37	1.69	5.79	0.17	0.00	3.08	2.47	4.37
6	-	0.98	673	7.66	1.41	3.29	0.00	3.33	3.32	2.58	0.68	0.00	4.13	1.94	3.82
7	-	0.97	692	7.63	3.71	8.07	0.34	2.93	1.32	5.41	0.18	0.00	4.59	1.64	3.61
8	-	0.98	724	7.16	3.54	7.21	0.94	2.83	0.98	4.61	1.45	0.00	4.75	1.64	3.49
9	-	0.70	492	7.37	2.25	4.44	0.00	2.09	1.29	2.93	0.58	0.00	3.33	1.10	2.49
10	-	0.71	480	7.30	0.96	2.12	0.00	2.88	2.35	1.56	0.15	0.00	3.65	0.98	2.32
11	-	0.93	630	7.52	1.60	3.67	0.00	3.32	2.99	2.85	0.17	0.00	4.01	1.76	3.56
12	-	0.71	490	7.46	1.29	2.85	0.00	2.70	2.14	2.02	0.13	0.00	3.90	0.77	2.36
1980	-	1.00	688	7.51	2.57	5.82	0.00	2.94	2.50	4.25	0.35	0.00	4.36	1.63	4.04

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.94	585	7.03	3.13	6.53	0.07	1.46	2.42	4.36	0.17	0.00	3.95	1.60	2.86
2	-	1.13	755	7.05	3.66	8.31	0.00	2.54	2.59	5.87	0.16	0.00	4.84	0.96	5.37
3	-	1.12	760	7.36	2.91	6.65	0.00	2.12	3.97	5.06	0.18	0.00	4.27	2.72	4.35
4	-	0.60	431	7.93	2.07	4.11	0.23	2.08	1.15	2.64	0.09	0.00	3.47	0.86	1.64
5	-	0.72	518	7.89	2.23	4.81	0.47	2.50	1.42	3.12	0.16	0.00	4.39	0.41	2.40
6	-	1.03	708	7.51	1.61	3.84	0.00	3.40	3.85	3.07	0.19	0.00	4.51	2.16	3.84
7	-	0.67	452	7.78	2.13	4.10	0.00	1.54	2.04	2.85	0.17	0.00	2.66	1.34	2.39
8	-	0.69	452	7.76	1.53	3.14	0.00	2.44	1.80	2.23	0.17	0.00	3.15	0.62	2.67
9	-	0.61	551	7.35	1.73	3.72	0.00	2.95	2.14	2.75	0.19	0.00	3.52	1.67	2.85
10	-	0.82	560	7.43	1.74	3.68	0.00	2.95	2.33	2.82	0.14	0.00	3.17	2.23	2.86
11	-	0.67	605	7.46	2.00	4.40	0.00	2.76	2.66	3.29	0.11	0.00	3.74	2.23	2.86
12	-	0.70	478	7.73	1.53	3.25	0.00	2.68	1.78	2.28	0.13	0.00	3.57	0.94	2.31
1981	-	0.53	570	7.44	2.16	4.67	0.00	2.45	2.34	3.35	0.16	0.00	3.78	1.48	3.03

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 15 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.93	678	7.41	2.82	6.41	0.00	3.31	1.74	4.49	0.10	0.00	4.78	1.51	3.36
2	-	1.06	718	7.72	2.44	5.61	0.00	3.20	3.11	4.33	0.07	0.00	4.24	2.06	4.40
3	-	0.65	462	7.47	1.54	3.22	0.00	2.36	1.81	2.22	0.13	0.00	3.49	1.25	1.79
4	-	0.95	647	7.47	2.30	5.16	0.00	3.33	2.15	3.80	0.17	0.00	4.16	1.47	3.82
5	-	0.84	585	7.54	1.58	3.60	0.00	3.33	2.48	2.69	0.07	0.00	4.12	1.10	3.35
6	-	0.82	552	7.64	1.75	3.85	0.00	3.05	2.16	2.82	0.08	0.00	3.77	1.01	3.32
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	0.58	388	7.44	2.42	4.28	0.00	1.74	0.95	2.80	0.11	0.00	2.65	0.56	2.39
9	-	0.86	605	7.69	3.63	7.32	0.00	1.65	2.08	4.96	0.08	0.00	3.57	2.08	3.15
10	-	0.67	465	7.67	1.71	3.47	0.00	1.69	2.52	2.48	0.03	0.00	3.10	1.91	1.84
11	-	0.63	447	7.67	2.01	3.94	0.00	2.01	1.57	2.69	0.06	0.00	3.03	1.64	1.67
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 10 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.72	497	7.31	2.07	4.25	0.00	1.99	2.13	2.97	0.10	0.00	3.36	1.44	2.39
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	0.57	397	7.35	1.19	2.51	0.00	1.14	2.74	1.63	0.07	0.00	3.76	0.39	1.47
5	-	0.77	539	7.85	2.48	5.24	0.00	2.48	1.58	3.53	0.10	0.00	3.91	1.00	2.78
6	-	0.66	462	7.69	2.72	5.33	0.59	1.97	1.07	3.35	0.10	0.00	3.62	0.13	2.34
7	-	0.66	464	8.01	2.46	4.64	0.48	1.91	1.34	3.14	0.12	0.00	3.73	0.50	2.27
8	-	0.67	481	8.24	2.09	4.38	0.11	1.74	2.07	2.86	0.12	0.00	3.92	1.04	1.73
9	-	0.88	625	8.41	2.74	5.94	0.00	2.14	2.69	4.25	0.05	0.10	3.84	2.67	2.38
10	-	1.04	712	7.90	3.57	7.81	0.00	2.52	2.46	5.65	0.03	0.25	3.67	2.83	3.42
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	0.79	531	7.49	1.69	3.73	0.00	2.75	2.24	2.68	0.09	0.01	3.91	0.61	2.99
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EF01 : FARASOUR PB YEAR : 1982 CODE : 13
 THE WATER QUALITY DATA DURING 1982 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSR	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	2.62	1580.	7.15	7.16	17.10	0.00	3.60	5.99	15.68	0.25	0.00	4.44	3.71	17.37
5	-	1.37	1033.	7.37	4.36	10.57	0.00	3.53	3.48	8.53	0.22	0.00	4.44	3.46	7.87
6	-	1.61	1069.	7.56	4.63	10.92	0.00	4.12	2.96	8.72	0.34	0.00	4.81	3.34	7.99
7	-	1.62	1055.	7.72	5.62	13.15	0.00	2.64	3.33	9.71	0.26	0.00	5.44	1.59	9.05
8	-	1.54	1164.	7.53	7.88	17.60	0.92	2.26	2.37	11.99	0.12	0.00	5.54	3.87	8.07
9	-	1.96	1325.	7.36	7.86	18.05	0.00	2.72	3.38	13.72	0.13	0.00	5.11	5.08	9.97
10	-	2.30	1458.	7.18	7.39	17.61	0.00	3.05	4.93	14.75	0.06	0.00	5.05	3.95	14.06
11	-	2.63	1609.	7.37	7.91	18.73	0.00	3.31	5.68	16.77	0.04	0.00	4.52	4.36	16.98
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSR	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	2.75	1604.	7.43	7.69	17.36	0.00	3.33	6.06	16.67	0.32	0.00	3.42	3.65	19.31
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.37	920.	7.49	4.81	10.32	0.00	3.16	2.48	8.07	0.12	0.00	3.98	4.35	5.90
4	-	1.56	1027.	7.28	4.79	10.33	0.00	3.22	3.64	8.86	0.12	0.00	3.19	5.35	7.30
5	-	2.44	1583.	7.69	9.18	20.35	0.00	3.07	4.06	17.33	0.24	0.00	3.91	7.17	13.61
6	-	1.85	1261.	8.08	7.82	17.28	0.00	3.51	2.10	13.10	0.17	0.00	4.47	5.87	8.55
7	-	1.50	1046.	8.35	6.85	14.92	0.00	2.43	2.29	10.52	0.16	0.01	4.66	4.58	6.13
8	-	2.44	1656.	8.06	8.44	20.35	0.00	2.86	5.30	17.06	0.30	0.37	5.03	8.04	12.06
9	-	2.04	1306.	7.67	7.01	15.60	0.00	3.67	3.36	13.13	0.21	0.11	3.74	5.23	11.28
10	-	2.58	1552.	7.76	6.72	16.01	0.00	3.12	7.06	15.16	0.05	0.33	3.85	4.56	16.65
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	2.41	1423.	7.19	5.78	13.76	0.00	4.27	5.86	13.01	0.10	0.02	4.04	2.89	16.29
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EHO1 : SAFT EL GIRLY BRIDGE YEAR 1980 CODE 23
 MEASUREMENT POINT CODE 23 , OPEN DRAIN , BASIC DATA WATERLEVEL AND FLOAT MEASUREMENTS

DISCHARGE RELATION Q=0.85*AS*VF
 J - DISCHARGE IN M**3 PER SECOND
 Q.85 - FACTOR
 AS - WETTED CROSS SECTION IN M**2
 VF - FLOAT VELOCITY IN M PER SECOND

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 20 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSO	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	27.32	1.19	821	7.35	1.86	4.67	0.00	3.81	4.38	3.76	0.22	0.00	5.59	1.72	4.86
4	22.78	1.14	819	7.45	3.33	8.09	0.41	3.07	2.77	5.69	0.17	0.00	6.25	1.07	4.34
5	18.49	0.98	840	7.50	2.04	4.46	0.00	3.06	2.96	3.53	0.15	0.00	3.39	1.95	4.37
6	28.36	0.98	891	7.19	2.00	4.83	0.00	3.82	2.35	3.52	0.19	0.00	5.42	0.72	3.74
7	32.00	1.16	822	7.33	3.31	7.75	0.00	2.72	3.28	5.74	0.23	0.00	4.99	2.88	4.08
8	32.10	1.28	918	7.64	3.01	7.15	0.00	3.19	2.98	5.29	1.64	0.00	5.20	2.84	5.05
9	34.73	1.26	874	7.50	3.17	7.47	0.00	3.73	2.67	5.67	0.70	0.00	4.92	2.46	5.38
10	36.86	1.15	806	7.56	2.28	5.64	0.00	3.80	3.46	4.34	0.16	0.00	5.61	1.67	4.46
11	26.22	1.48	1015	7.74	3.11	7.95	0.00	4.27	4.03	6.34	0.46	0.00	5.97	2.28	6.85
12	31.01	1.48	1081	7.65	4.00	9.79	0.00	3.56	4.02	7.78	0.40	0.00	5.52	3.30	4.95
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSO	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	19.87	1.39	1011	6.96	3.21	8.26	0.00	2.31	5.75	6.45	0.23	0.00	6.87	3.13	4.76
2	13.87	1.53	1028	6.96	4.51	11.01	0.00	3.35	3.40	8.29	0.26	0.00	6.01	1.84	7.46
3	25.02	1.19	800	7.32	3.85	8.48	0.00	2.87	2.54	6.32	0.18	0.00	4.06	2.63	5.22
4	20.19	1.21	839	7.56	3.68	8.39	0.00	3.03	2.78	6.27	0.23	0.00	4.52	3.12	4.66
5	22.60	0.98	680	7.72	2.71	6.09	0.00	2.99	2.33	4.43	0.16	0.00	4.31	1.78	3.82
6	24.41	1.12	806	7.94	3.09	7.15	0.00	3.62	2.40	5.37	0.22	0.00	4.61	3.40	3.61
7	25.43	1.22	932	8.10	3.78	8.94	0.00	3.52	2.98	6.82	0.16	0.00	5.05	4.23	4.25
8	32.49	1.27	866	8.02	3.38	8.11	0.00	3.39	3.13	6.10	0.16	0.00	5.39	1.66	5.79
9	29.72	1.7	806	7.71	2.88	6.81	0.00	2.44	4.14	5.22	0.16	0.00	4.88	2.54	4.54
10	22.65	1.05	709	7.51	2.33	5.33	0.00	3.09	3.21	4.14	0.14	0.00	4.08	2.28	4.21
11	18.16	1.27	868	7.48	2.94	6.94	0.00	3.84	3.46	5.52	0.10	0.00	4.41	3.36	5.25
12	24.24	1.22	853	7.62	3.56	8.16	0.00	3.77	2.42	6.27	0.06	0.00	4.40	3.65	4.46
1981	274.64	1.21	840	7.50	3.29	7.71	0.00	3.19	3.15	5.86	0.17	0.00	4.82	2.79	4.76

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSO	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	30.61	1.12	739	7.16	2.81	6.48	0.00	3.78	2.25	4.88	0.11	0.00	4.52	1.07	5.43
2	11.82	1.43	935	7.75	2.91	7.20	0.00	4.54	3.58	5.87	0.20	0.00	5.31	1.54	7.33
3	27.92	0.98	668	7.35	2.28	5.25	0.00	3.53	2.15	3.85	0.23	0.00	4.55	0.89	4.32
4	27.06	1.11	757	7.17	2.71	6.34	0.00	3.38	2.86	4.79	0.14	0.00	4.74	1.78	4.65
5	24.76	0.97	662	7.56	2.61	5.76	0.00	2.47	2.91	4.27	0.12	0.00	3.94	2.12	3.71
6	37.45	0.39	607	7.73	2.00	4.44	0.00	2.90	2.57	3.31	0.16	0.00	3.83	1.65	3.46
7	37.73	1.17	848	7.92	4.10	9.40	0.00	3.48	1.79	6.65	0.17	0.00	5.12	2.96	4.01
8	35.42	1.43	1046	7.49	5.38	12.27	0.00	2.69	3.21	9.25	0.09	0.00	4.71	6.22	4.29
9	38.69	1.35	962	7.44	5.06	11.34	0.00	2.26	3.32	8.45	0.09	0.00	4.48	5.10	4.54
10	39.42	1.06	733	7.69	1.95	4.64	0.00	3.17	3.96	3.63	0.09	0.00	4.55	2.46	3.89
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EHO1 : SAFT EL GIRLY BRIDGE YEAR 1983 CODE 24
 THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSO	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	-	1.06	723	7.34	2.79	6.16	0.00	3.78	2.04	4.75	0.12	0.00	3.74	2.76	4.19
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	1.50	921	7.32	5.28	11.36	0.00	3.95	1.48	8.69	0.15	0.00	3.79	1.31	9.17
5	-	1.18	829	7.58	3.99	9.03	0.00	3.45	1.89	6.52	0.13	0.00	4.71	2.84	4.46
6	-	1.22	885	7.28	4.12	9.52	0.00	3.34	2.33	6.64	0.14	0.00	5.00	3.63	4.11
7	-	1.38	1018	7.60	3.39	12.32	0.00	3.19	2.36	8.97	0.12	0.00	5.05	5.25	4.33
8	-	1.72	1141	8.38	8.71	18.88	0.93	2.47	1.79	12.75	0.13	0.25	4.95	3.28	8.63
9	-	1.45	948	8.23	4.86	10.71	0.00	3.29	2.67	6.39	0.15	0.22	3.69	3.54	7.04
10	-	1.20	833	7.61	2.85	6.79	0.00	3.67	3.38	5.35	0.07	0.49	4.32	3.53	4.09
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	1.08	727	7.12	2.18	5.17	0.00	3.80	2.88	3.99	0.12	0.02	4.65	1.46	4.64
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH02 : MANUT PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 / PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION Q=QD+B*M
Q - DISCHARGE IN M**3 PER SECOND
QD = 4.815 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
B = 0.000 - SLOPE OF CAPACITY CURVE
M - SUCTION HEAD IN M
QCAP = 4.815 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
HAY = 2.320 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	9.71	1.51	1030.	7.51	4.01	9.67	0.00	4.22	3.27	7.76	0.16	0.00	5.10	3.54	6.77
2	8.35	2.24	1455.	7.42	5.59	13.88	0.00	5.42	4.55	12.48	0.19	0.00	5.16	4.89	12.63
3	19.34	1.32	880.	7.60	2.62	6.45	0.00	3.61	4.31	5.21	0.16	0.00	5.27	1.89	6.13
4	21.27	1.18	785.	7.40	3.84	8.62	0.00	2.45	2.83	6.24	0.17	0.00	4.52	1.71	5.47
5	21.15	0.96	659.	7.44	1.97	4.30	0.00	2.86	3.08	3.39	0.42	0.00	3.39	2.97	3.40
6	28.39	1.04	690.	7.38	1.49	3.45	0.00	4.40	3.01	2.86	0.19	0.00	3.81	2.21	4.36
7	27.60	1.23	824.	7.31	3.94	8.92	0.00	3.12	2.41	6.56	0.15	0.00	4.54	2.03	5.67
8	26.43	1.30	927.	7.59	2.96	7.11	0.00	4.05	2.57	5.39	1.29	0.00	5.27	2.68	5.36
9	25.36	1.21	841.	7.21	2.98	7.07	0.00	3.54	2.79	5.30	0.61	0.00	5.10	2.05	5.09
10	18.01	1.15	830.	7.58	2.54	6.26	0.00	3.81	3.09	4.72	0.28	0.00	5.84	2.03	4.03
11	11.91	1.56	1119.	7.33	3.62	9.32	0.00	4.84	3.48	7.38	0.34	0.00	6.89	2.98	6.37
12	11.25	1.52	1125.	7.61	4.07	9.68	0.00	4.20	3.89	8.19	0.26	0.00	4.47	7.52	4.54
1980	228.97	1.27	869.	7.42	3.05	7.23	0.00	3.72	3.10	5.63	0.40	0.00	4.82	2.66	5.37

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	13.94	1.47	983.	7.21	4.98	11.39	0.00	2.20	3.78	8.62	0.22	0.00	4.68	3.47	6.62
2	10.64	2.80	1905.	6.98	10.07	25.87	0.00	3.25	4.97	20.41	0.24	0.00	8.19	5.47	15.22
3	23.70	1.21	744.	7.33	3.64	8.02	0.00	2.51	2.81	5.94	0.20	0.00	4.06	0.42	6.97
4	24.37	1.15	794.	7.53	3.68	8.22	0.00	2.94	2.44	6.05	0.22	0.00	4.29	2.80	4.56
5	20.21	0.96	650.	7.37	2.71	5.97	0.00	2.61	2.45	4.31	0.17	0.00	4.09	1.56	3.90
6	24.94	1.34	987.	7.93	4.34	10.02	0.00	2.11	4.28	7.76	0.27	0.00	4.39	6.06	3.78
7	28.12	2.00	1490.	8.30	7.31	16.87	0.00	3.43	3.75	13.83	0.48	0.00	4.59	12.75	4.15
8	25.34	1.52	1027.	7.94	3.70	8.90	0.00	3.92	4.00	7.37	0.24	0.00	4.77	3.87	6.89
9	26.54	1.33	897.	7.31	1.90	4.82	0.00	3.58	5.76	4.10	0.19	0.00	5.40	2.55	5.67
10	25.08	1.25	862.	7.56	2.85	6.79	0.00	4.07	3.15	5.41	0.16	0.00	4.72	3.05	5.01
11	19.67	1.44	974.	7.39	3.34	7.88	0.00	3.78	4.22	6.67	0.13	0.00	4.24	4.52	6.01
12	14.28	1.15	987.	7.65	3.89	9.27	0.00	3.70	3.39	7.43	0.11	0.00	4.84	3.67	6.29
1981	256.86	1.43	994.	7.48	4.10	9.65	0.00	3.20	3.74	7.65	0.23	0.00	4.73	4.32	5.76

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	15.08	1.62	1069.	7.35	4.06	9.89	0.00	4.45	3.60	8.14	0.10	0.00	5.15	2.93	8.20
2	7.35	2.78	1849.	7.21	5.39	14.94	0.00	8.10	6.07	14.33	0.11	0.00	8.13	4.58	15.91
3	12.27	1.11	751.	7.31	2.31	5.47	0.00	3.77	2.92	4.22	0.21	0.00	4.74	1.56	4.82
4	18.74	1.17	793.	7.24	2.80	6.61	0.00	3.20	3.34	5.07	0.19	0.00	4.78	1.93	5.09
5	21.89	1.26	874.	7.32	2.73	6.66	0.00	4.16	3.35	5.28	0.13	0.00	5.25	2.51	5.16
6	29.02	1.04	719.	7.74	2.64	6.02	0.00	3.55	2.30	4.51	0.17	0.00	4.31	2.08	4.14
7	25.12	1.30	918.	7.69	4.73	10.70	0.00	3.53	1.82	7.74	0.22	0.00	4.81	3.52	4.97
8	25.05	1.44	1051.	7.69	5.79	13.32	0.00	3.39	2.06	9.56	0.14	0.00	5.33	4.98	4.75
9	26.37	1.38	995.	7.63	6.05	13.40	0.00	2.63	2.26	9.46	0.09	0.00	4.83	4.90	4.63
10	19.34	0.86	583.	7.30	2.55	5.51	0.00	2.27	2.30	3.86	0.09	0.00	3.98	1.13	3.39
11	4.28	1.37	925.	7.40	3.17	7.81	0.00	4.47	3.07	6.16	0.08	0.00	5.57	1.79	6.43
12	8.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	212.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SD4	CL
1	9.95	1.26	876.	7.45	3.49	8.02	0.00	3.71	2.68	6.23	0.29	0.00	4.39	3.50	5.03
2	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	14.66	1.33	892.	7.89	5.44	11.71	0.00	3.05	1.67	8.36	0.15	0.00	4.24	2.92	6.05
4	22.33	1.23	780.	8.01	5.32	11.18	0.25	2.06	1.98	7.56	0.17	0.00	4.28	0.80	6.64
5	19.38	1.34	876.	7.96	4.52	10.30	0.00	2.67	2.87	7.52	0.13	0.00	4.82	1.59	6.76
6	24.39	1.09	739.	7.70	3.69	8.19	0.00	2.55	2.44	5.82	0.06	0.00	4.47	1.83	4.57
7	17.25	1.55	1120.	7.81	4.19	10.44	0.00	3.49	4.49	8.06	0.12	0.00	5.94	5.11	5.40
8	23.11	1.70	1215.	8.12	7.57	16.67	0.00	3.23	2.04	12.28	0.14	0.19	4.42	7.93	5.15
9	25.62	1.23	854.	8.45	5.29	10.97	0.00	2.38	2.13	7.55	0.17	0.31	3.36	4.76	4.20
10	15.36	1.08	754.	8.25	2.78	6.38	0.00	3.23	3.06	4.94	0.06	0.50	3.72	3.61	3.41
11	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	5.17	1.21	820.	7.51	2.58	6.14	0.00	3.93	3.28	4.90	0.16	0.06	4.54	2.54	5.14
1983	192.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH03 : SADAKA PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE: 11 PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 $Q_0 = 5.778$ - DISCHARGE IN M**3 PER SECOND
 $B = -0.616$ - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 H - SLOPE OF CAPACITY CURVE
 $3CAP = 4.996$ - SUCTION HEAD IN M
 $HAV = 1.270$ - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
- AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	6.58	4.63	2880.	7.55	8.05	21.41	0.00	10.46	10.54	26.09	0.28	0.00	5.11	9.76	32.52
2	4.21	4.60	2806.	7.40	7.91	21.67	0.00	10.68	9.90	25.38	0.24	0.00	6.21	6.60	33.41
3	8.40	2.59	1573.	7.61	4.81	12.78	0.00	7.12	5.69	12.18	0.21	0.00	6.38	1.31	17.54
4	8.95	2.19	1375.	7.50	5.52	12.91	0.00	5.30	4.27	12.07	0.19	0.00	3.84	5.00	12.94
5	8.42	2.31	1491.	7.99	3.54	8.48	0.00	6.72	7.71	9.50	0.14	0.00	3.21	8.42	12.39
6	8.31	2.32	1544.	7.44	5.57	13.71	0.00	6.70	3.98	12.88	0.28	0.00	4.66	6.64	12.73
7	10.74	2.44	1646.	7.52	7.83	19.09	0.00	5.29	3.30	16.23	0.27	0.00	5.48	6.76	12.92
8	13.71	2.47	1618.	7.86	7.34	18.14	0.00	5.25	3.88	15.69	0.19	0.00	5.59	5.46	13.97
9	14.91	3.09	1398.	7.48	5.24	13.03	0.00	4.72	4.96	11.53	0.27	0.00	5.25	5.74	10.49
10	14.71	2.44	1608.	7.33	6.54	16.79	0.00	5.35	4.30	14.37	0.64	0.00	6.60	4.07	13.98
11	10.12	2.46	2004.	7.27	8.04	21.05	0.00	5.75	5.59	19.16	0.29	0.00	6.90	7.51	16.60
12	11.06	2.72	1882.	7.69	7.11	17.16	0.00	4.63	6.90	17.07	0.56	0.00	4.16	11.97	13.06
1980	120.12	2.64	1724.	7.50	6.37	16.12	0.00	6.00	5.44	15.25	0.31	0.00	5.33	6.45	15.26

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	7.47	3.97	2649.	7.32	11.00	29.85	0.00	6.60	6.28	27.91	0.40	0.00	8.52	8.48	24.19
2	6.82	5.24	3145.	7.18	20.09	48.30	0.00	5.49	3.26	42.02	0.23	0.00	6.10	4.68	40.21
3	8.56	2.28	1323.	7.27	7.32	16.79	0.00	4.20	3.01	13.89	0.19	0.00	4.42	0.59	16.28
4	7.31	2.04	1309.	7.43	5.15	12.63	0.00	4.80	4.33	11.00	0.22	0.00	5.06	3.81	11.49
5	9.62	1.43	946.	7.33	4.04	9.32	0.00	3.88	2.81	7.39	0.20	0.00	4.37	3.09	6.82
6	7.83	1.78	1173.	7.98	3.38	8.58	0.00	5.40	4.85	7.65	0.16	0.00	5.39	3.64	9.03
7	11.22	3.09	1981.	8.36	5.34	14.27	0.00	7.96	8.36	15.25	0.18	0.00	5.78	7.12	18.85
8	14.00	2.32	1466.	8.03	5.44	13.75	0.00	5.12	5.34	12.45	0.20	0.00	5.48	3.66	13.96
9	15.05	2.25	1380.	7.64	5.24	12.95	0.00	5.27	4.77	11.74	0.19	0.00	4.95	2.76	14.26
10	12.78	2.07	1271.	7.63	5.30	12.40	0.00	4.44	4.45	11.16	0.18	0.00	4.03	3.51	12.69
11	9.23	2.60	1588.	7.61	5.86	14.11	0.00	5.00	6.52	14.06	0.18	0.00	3.99	5.11	16.65
12	9.43	2.42	1495.	7.82	5.11	12.39	0.00	4.78	6.90	12.34	0.14	0.00	4.03	5.34	14.79
1981	119.32	2.54	1583	7.56	6.38	15.84	0.00	5.24	5.14	14.55	0.20	0.00	5.08	4.20	15.85

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	10.95	4.11	2458.	7.19	7.91	20.45	0.00	9.66	7.36	23.21	0.17	0.00	4.83	5.55	30.23
2	3.46	10.61	6601.	7.20	14.03	42.90	0.00	25.36	18.71	65.84	0.35	0.00	9.89	14.27	86.10
3	8.28	2.40	1488.	7.20	6.13	14.76	0.00	5.66	4.24	13.64	0.11	0.00	4.44	4.30	14.92
4	10.82	1.81	1160.	7.11	5.06	11.84	0.00	3.69	4.17	10.02	0.17	0.00	4.49	3.82	9.87
5	10.45	2.68	1735.	7.10	6.10	15.61	0.00	6.08	6.03	15.00	0.20	0.00	5.49	6.29	15.54
6	15.45	2.12	1379.	7.38	5.79	13.92	0.00	5.44	3.47	12.22	0.22	0.00	4.68	4.91	11.77
7	14.56	2.06	1396.	7.37	6.89	17.00	0.00	4.54	2.94	13.33	0.16	0.00	6.34	4.13	10.51
8	15.74	2.24	1550.	7.08	7.91	19.25	0.00	3.81	3.96	15.60	0.09	0.00	5.83	6.64	10.98
9	16.92	2.40	1562.	7.34	7.91	19.04	0.00	3.94	4.19	15.95	0.12	0.00	5.31	5.36	13.53
10	13.47	2.40	1508.	7.34	6.52	15.74	0.00	4.85	4.61	14.19	0.18	0.00	4.67	4.62	14.53
11	11.02	2.71	1676.	7.53	6.63	15.93	0.00	6.13	5.04	15.66	0.08	0.00	4.10	5.53	17.29
12	11.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	142.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	10.78	1.73	1052.	7.24	4.89	10.63	0.00	3.89	3.39	9.33	0.11	0.00	3.18	3.22	10.31
2	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	8.00	2.91	1870.	7.53	9.18	20.89	0.00	4.75	4.74	19.99	0.15	0.00	3.64	8.64	17.35
4	8.26	2.77	1766.	7.46	9.08	20.61	0.00	4.51	4.25	18.99	0.17	0.00	3.80	7.49	16.64
5	10.48	1.71	1126.	8.00	7.23	15.90	0.00	3.66	1.52	11.62	0.14	0.00	4.62	3.47	8.85
6	9.80	1.23	793.	7.84	5.22	10.90	0.00	3.05	1.14	7.55	0.12	0.00	4.03	1.31	6.52
7	11.98	1.77	1193.	7.89	6.50	14.81	0.00	3.50	2.83	11.57	0.09	0.00	4.59	5.09	8.31
8	13.31	2.73	1824.	8.11	10.35	23.15	0.00	3.10	4.57	20.26	0.15	0.12	3.85	11.28	12.84
9	15.71	1.90	1286.	7.84	6.65	14.34	0.00	3.03	4.03	12.49	0.10	0.11	3.17	8.65	7.72
10	16.15	1.84	1221.	7.99	4.40	10.51	0.00	4.74	4.65	9.54	0.06	0.25	3.94	6.03	8.76
11	9.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	11.09	1.87	1131.	7.50	4.13	9.68	0.00	5.00	4.16	8.83	0.13	0.01	3.84	2.53	11.74
1983	128.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EMO4 : NIZAM BRIDGE YEAR : 1980 CODE : 21
MEASUREMENT POINT CODE: 21 ; OPEN DRAIN ; BASIC DATA: WATER LEVEL MEASUREMENTS

DISCHARGE RELATION : $Q = A + B \cdot HM$
Q - DISCHARGE IN M**3 PER SECOND
A = 38.525 - Q INTERCEPT FOR HM = 0
B = -7.032 - SLOPE OF Q-HM RELATION
HM= - DISTANCE TO WATERLEVEL FROM FIXED POINT
R2= 0.970 - CORRELATION COEFFICIENT

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	7.11	1.76	1244.	7.03	4.99	12.17	0.00	3.93	4.31	10.13	0.21	0.00	5.23	6.36	6.98
2	11.08	1.45	1024.	7.21	3.50	8.25	0.00	4.72	3.21	6.97	0.33	0.00	4.25	5.55	5.40
3	11.27	1.27	879.	7.37	2.12	5.28	0.00	3.93	4.63	4.39	0.21	0.00	5.17	2.93	5.05
4	12.73	1.07	695.	7.29	3.33	7.27	0.00	2.63	2.38	5.27	0.17	0.00	4.03	1.17	5.19
5	15.38	0.98	641.	7.26	2.39	5.08	0.00	2.86	2.77	4.00	0.09	0.00	3.15	2.38	4.17
6	13.41	0.85	603.	7.27	2.45	5.21	0.00	3.11	1.72	3.81	0.19	0.00	3.52	1.77	3.53
7	22.63	1.02	709.	7.43	4.29	9.00	0.11	2.26	1.75	6.08	0.18	0.00	4.12	2.18	3.96
8	22.59	1.19	820.	7.55	3.01	6.92	0.00	2.71	2.92	5.05	1.23	0.00	4.73	1.88	5.29
9	25.84	1.26	855.	7.31	3.17	7.51	0.00	3.53	2.87	5.67	0.53	0.00	5.05	1.76	5.80
10	26.94	1.04	731.	7.36	2.23	5.40	0.00	3.39	3.14	4.04	0.13	0.00	5.32	1.00	4.36
11	21.60	1.49	1046.	7.45	3.08	7.78	0.00	4.37	4.17	6.37	0.57	0.00	5.86	3.43	6.14
12	19.93	1.57	1155.	7.40	4.96	11.67	0.00	3.17	4.12	9.48	0.19	0.00	4.68	7.58	4.71
1980	210.49	1.23	850.	7.35	3.22	7.51	0.00	3.31	3.09	5.76	0.37	0.00	4.67	2.87	4.97

LOCATION : EMO4 : NIZAM BRIDGE YEAR : 1981 CODE : 24
THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.64	1071.	7.12	6.44	14.44	0.00	2.17	3.26	10.61	0.22	0.00	4.78	2.94	8.54
2	-	1.16	753.	7.06	4.95	10.60	0.66	1.74	2.27	7.01	0.18	0.00	4.67	0.49	6.04
3	-	1.15	772.	7.09	3.75	8.48	0.00	3.12	2.06	6.04	0.15	0.00	4.74	1.23	5.40
4	-	1.32	901.	7.39	4.70	10.57	0.00	3.25	2.12	7.71	0.20	0.00	4.62	2.93	5.74
5	-	1.20	805.	7.27	4.16	9.29	0.00	2.96	2.09	6.61	0.21	0.00	4.60	1.75	5.53
6	-	1.22	860.	7.46	4.11	9.40	0.00	2.92	2.58	6.81	0.21	0.00	4.89	2.93	4.69
7	-	1.17	819.	8.00	3.10	7.27	0.00	4.87	1.35	5.47	0.17	0.00	4.82	2.31	4.73
8	-	1.28	873.	7.72	3.45	8.27	0.00	3.96	2.50	6.20	0.20	0.00	5.37	1.64	5.85
9	-	1.21	828.	7.23	3.37	7.77	0.00	3.08	3.07	5.91	0.19	0.00	4.54	2.83	4.89
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	1.46	978.	7.19	4.00	9.19	0.00	3.46	3.66	7.55	0.18	0.00	4.09	4.15	6.62
12	-	1.53	1013.	7.34	4.43	10.18	0.00	4.10	2.88	8.20	0.12	0.00	4.22	3.87	7.29
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 14 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.78	1186.	7.17	5.38	13.14	0.00	4.82	2.52	10.32	0.19	0.00	5.81	2.64	9.39
2	-	2.52	1614.	7.64	6.91	17.18	0.00	4.93	5.16	14.62	0.27	0.00	7.64	1.99	15.36
3	-	1.17	764.	7.13	2.74	4.36	0.00	3.48	2.99	4.92	0.13	0.00	4.44	1.40	5.68
4	-	1.44	991.	7.10	4.27	10.14	0.00	3.66	2.97	7.77	0.24	0.00	5.18	3.29	6.18
5	-	1.13	814.	7.20	4.06	9.32	0.39	2.95	2.02	6.40	0.22	0.00	5.36	2.14	4.09
6	-	1.09	760.	7.42	4.07	8.72	0.00	2.73	1.89	6.19	0.24	0.00	4.03	2.90	4.12
7	-	1.38	1000.	7.46	5.07	11.87	0.00	3.68	1.96	8.51	0.20	0.00	5.60	3.80	4.93
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	1.25	851.	7.45	4.43	9.88	0.00	2.80	2.54	7.23	0.18	0.00	4.45	2.92	5.07
11	-	1.10	724.	7.44	2.98	6.52	0.00	3.27	2.51	5.06	0.06	0.00	3.62	2.46	4.79
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EMO4 : NIZAM BRIDGE YEAR : 1983 CODE : 21
MEASUREMENT POINT CODE: 21 ; OPEN DRAIN ; BASIC DATA: WATER LEVEL MEASUREMENTS
THE WATER QUALITY DATA DURING 1983 ARE BASED ON 7 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	13.26	1.51	982.	7.28	6.25	13.32	0.00	3.11	1.80	9.79	0.17	0.00	4.02	3.07	7.74
4	12.41	2.12	1286.	7.52	8.51	18.05	0.00	3.02	2.73	14.43	0.25	0.00	3.67	3.10	13.50
5	19.23	1.24	899.	7.21	6.15	12.80	0.00	2.68	1.49	8.88	0.19	0.00	4.08	2.63	6.50
6	18.26	1.24	867.	7.29	5.39	11.54	0.00	2.72	1.73	8.04	0.12	0.00	4.33	3.57	4.70
7	22.26	1.30	927.	7.63	5.66	12.30	0.00	3.04	1.59	8.61	0.15	0.00	4.54	4.23	4.62
8	23.62	1.55	1137.	7.73	6.67	15.19	0.00	3.16	2.14	10.86	0.18	0.11	5.18	6.40	4.64
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH05 : NIZAM PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE: 11 ; PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 $Q_0 = 4.269$ - DISCHARGE IN M³ PER SECOND
 $B = -0.618$ - DISCHARGE IN M³ PER SECOND AT ZERO SUCTION HEAD
 H - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 $Q_{CAP} = 3.707$ - AVERAGE PUMP CAPACITY IN M³ PER SECOND
 $H_{AV} = 0.910$ - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 23 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	6.60	1.77	1182	7.30	5.02	11.89	0.00	4.28	3.51	9.90	0.36	0.00	4.66	4.29	9.07
2	5.11	1.37	903	7.35	3.01	6.93	0.00	4.28	3.38	5.89	0.24	0.00	3.82	3.65	6.31
3	8.57	1.28	868	7.59	2.92	7.05	0.00	3.74	3.29	5.48	0.37	0.00	5.16	1.96	5.75
4	11.13	1.02	695	7.39	3.58	7.91	0.16	2.09	2.42	5.38	0.24	0.00	4.68	0.93	4.52
5	8.51	0.94	603	7.45	2.65	5.49	0.00	2.80	2.00	4.11	0.16	0.00	3.16	1.51	4.41
6	9.40	1.08	771	7.28	3.26	7.21	0.00	2.81	2.73	5.42	0.17	0.00	3.97	3.66	3.75
7	14.78	1.27	895	7.19	4.57	10.45	0.00	2.39	3.00	7.51	0.16	0.00	5.01	3.25	4.79
8	16.84	1.25	842	7.90	4.03	9.40	0.00	2.92	2.58	6.69	0.23	0.00	5.36	1.02	6.04
9	15.93	1.23	833	7.65	3.92	9.20	0.00	2.97	2.62	6.56	0.16	0.00	5.45	1.06	5.67
10	12.44	1.18	793	7.45	2.92	7.03	0.00	3.30	3.03	5.20	0.20	0.00	5.50	0.65	5.53
11	11.88	1.52	1031	7.60	4.16	10.24	0.00	3.75	3.30	7.81	0.44	0.00	6.05	1.88	7.34
12	11.77	1.73	1122	7.73	5.72	12.86	0.00	3.95	2.51	10.28	0.41	0.00	4.16	3.66	9.34
1980	132.95	1.29	872	7.47	3.89	9.04	0.00	3.16	2.82	6.73	0.25	0.00	4.90	2.08	5.97

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	8.34	1.67	1090	7.36	5.71	12.93	0.00	2.77	3.48	10.10	0.29	0.00	4.42	3.64	8.58
2	7.09	1.39	883	7.43	6.01	12.95	0.40	2.16	2.13	8.80	0.25	0.00	4.68	0.76	7.91
3	11.78	1.17	746	7.32	3.48	7.72	0.00	2.71	2.67	5.70	0.23	0.00	4.15	1.04	6.12
4	10.28	1.45	983	7.52	4.55	10.33	0.00	3.01	3.46	8.19	0.16	0.00	4.20	4.36	6.24
5	9.34	1.02	692	7.38	3.61	7.74	0.00	2.51	2.01	5.43	0.18	0.00	4.03	1.90	4.20
6	8.04	1.78	1197	7.77	7.15	16.17	0.00	2.88	2.85	12.11	0.18	0.00	4.86	4.51	8.65
7	12.98	1.73	1068	8.14	7.36	15.40	0.00	2.51	2.38	11.51	0.22	0.00	3.80	2.32	10.49
8	14.48	1.30	801	7.67	4.03	8.96	0.00	3.00	2.48	6.67	0.19	0.00	4.22	0.43	7.68
9	14.43	1.21	783	7.41	3.19	7.35	0.00	2.66	3.48	5.59	0.14	0.00	4.51	1.37	5.99
10	13.99	1.28	849	7.66	3.65	8.11	0.00	2.84	3.41	6.46	0.16	0.00	3.75	3.59	5.53
11	12.09	1.54	1002	7.50	4.14	9.44	0.00	3.59	3.75	7.94	0.16	0.00	3.85	3.95	7.65
12	10.58	1.61	1060	7.46	4.59	10.59	0.00	3.54	3.81	8.79	0.11	0.00	4.18	4.31	7.76
1981	133.42	1.42	917	7.52	4.59	10.27	0.00	2.87	3.02	7.89	0.18	0.00	4.18	2.60	7.18

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 15 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	11.80	2.11	1308	7.29	5.77	13.91	0.00	4.99	3.52	11.91	0.16	0.00	4.89	2.53	13.13
2	4.97	4.20	2635	7.19	7.82	22.48	0.00	8.88	9.43	23.66	0.29	0.00	9.36	4.07	28.84
3	9.96	1.44	930	7.19	3.31	7.87	0.00	4.04	3.63	6.49	0.13	0.00	4.52	2.26	7.53
4	14.06	1.21	775	7.21	3.10	6.99	0.00	2.93	3.23	5.45	0.23	0.00	3.99	1.71	6.13
5	12.76	1.10	724	7.33	3.14	6.99	0.00	3.62	1.83	5.18	0.16	0.00	4.14	1.26	5.39
6	18.35	1.22	851	7.61	4.43	9.93	0.00	4.03	1.01	7.02	0.23	0.00	4.77	2.39	5.13
7	19.92	1.43	1035	7.32	5.29	12.22	0.00	4.27	1.42	8.93	0.27	0.00	5.20	4.49	5.20
8	20.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	20.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	19.37	1.17	813	7.26	3.75	8.37	0.00	3.11	2.46	6.26	0.13	0.00	4.21	3.31	4.41
11	17.34	1.17	779	7.66	3.68	7.85	0.00	2.63	2.86	6.11	0.18	0.00	3.39	3.62	4.62
12	16.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	186.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	15.59	1.13	738	7.66	3.50	7.37	0.00	3.00	2.34	5.73	0.11	0.00	3.26	2.73	5.20
2	6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	13.93	1.53	1015	7.46	6.08	12.66	0.00	3.09	2.24	9.93	0.11	0.00	3.36	4.86	7.19
4	13.14	1.63	1077	7.38	5.69	12.07	0.00	4.14	2.10	10.05	0.12	0.00	3.24	5.43	7.75
5	16.58	1.28	877	7.60	5.37	11.70	0.04	3.14	1.43	8.12	0.12	0.00	4.61	2.69	5.51
6	15.09	1.37	952	7.68	5.09	11.57	0.00	3.28	2.18	8.41	0.08	0.00	4.90	3.48	5.57
7	19.05	1.62	1141	7.86	7.13	15.74	0.00	2.97	2.20	11.46	0.11	0.00	4.69	5.90	6.15
8	16.86	1.58	1049	7.95	6.38	14.15	0.00	3.03	2.27	10.38	0.13	0.12	4.47	3.50	7.69
9	21.96	1.17	822	7.90	4.34	9.20	0.00	3.23	1.84	6.91	0.09	0.16	3.46	4.52	3.95
10	19.98	1.36	954	8.03	3.74	8.72	0.00	3.93	3.20	7.06	0.08	0.41	3.95	5.23	4.69
11	15.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	17.44	1.65	1085	7.47	4.10	9.92	0.00	4.15	4.03	8.29	0.13	0.02	4.89	3.45	8.26
1983	190.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EMO6 : BANI EBEID PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE: 11 / PUMP STATION / BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = GO + B \cdot H$
 Q - DISCHARGE IN M**3 PER SECOND
 GO = 7.515 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 B = -1.241 - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 GCAP = 4.710 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 HAV = 2.260 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	13.96	2.78	1736	7.36	5.91	14.52	0.00	6.78	5.99	14.94	0.22	0.00	4.15	6.36	17.40
2	8.77	2.48	1699	7.59	6.44	15.66	0.00	5.71	5.25	15.07	0.22	0.00	4.40	9.78	12.07
3	14.73	1.76	1125	7.15	3.08	7.76	0.00	5.56	4.76	6.99	0.22	0.00	5.09	2.79	9.65
4	14.66	2.22	1426	6.72	5.37	13.99	0.00	5.18	4.72	11.95	0.21	0.00	6.87	1.96	13.23
5	13.77	2.08	1221	7.49	3.07	7.33	0.00	6.13	5.94	7.34	0.48	0.00	3.42	2.81	13.86
6	13.96	1.99	1231	7.21	4.48	10.93	0.00	5.39	4.07	9.74	0.24	0.00	4.70	2.55	12.16
7	19.97	2.14	1414	7.51	7.23	17.36	0.00	4.92	2.51	13.93	0.16	0.00	5.53	4.39	11.59
8	22.45	2.07	1355	7.37	5.18	12.82	0.00	4.59	4.92	11.30	0.19	0.00	5.15	4.85	10.98
9	20.57	1.84	1183	7.47	4.71	11.22	0.00	4.07	4.43	9.72	0.19	0.00	4.43	4.04	9.95
10	19.63	1.83	1283	7.27	5.06	12.75	0.00	4.98	3.47	10.41	0.19	0.00	6.22	4.83	7.99
11	16.44	2.43	1650	7.52	6.99	17.85	0.00	5.72	3.19	14.76	1.12	0.00	6.85	4.76	13.17
12	17.49	2.59	1701	7.51	6.20	15.08	0.00	4.73	6.82	14.90	0.37	0.00	4.24	8.55	14.05
1980	198.40	2.16	1402	7.28	5.28	13.10	0.00	5.21	4.57	11.68	0.31	0.00	5.14	4.67	11.95

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	15.39	2.91	1805	7.17	8.99	21.01	0.00	3.68	5.62	19.37	0.24	0.00	4.22	6.05	18.64
2	8.53	3.41	3470	6.98	11.03	28.28	0.00	11.41	9.29	35.50	0.35	0.00	4.36	14.65	37.53
3	20.73	1.88	1112	7.34	4.66	10.55	0.00	4.44	3.80	9.45	0.22	0.00	3.53	2.12	12.25
4	19.25	2.27	1403	7.48	5.28	12.67	0.00	4.68	5.56	11.94	0.26	0.00	4.18	4.38	13.88
5	19.63	1.79	1117	7.28	4.55	10.56	0.00	3.60	4.62	9.22	0.20	0.00	3.98	3.35	10.31
6	18.73	2.27	1516	7.82	7.44	17.49	0.00	5.38	2.61	14.87	0.32	0.00	4.66	6.46	12.07
7	23.92	2.75	1748	8.35	7.56	18.39	0.00	5.08	4.89	16.88	0.68	0.00	4.82	5.82	16.90
8	21.89	2.11	1298	8.00	4.90	12.34	0.00	4.51	5.02	10.69	0.28	0.00	5.69	1.42	13.41
9	28.61	1.74	1062	7.61	4.17	10.01	0.00	3.65	4.56	8.44	0.16	0.00	4.72	1.39	10.71
10	27.78	1.74	1098	7.52	4.70	10.67	0.00	4.18	3.60	9.26	0.16	0.00	3.72	3.79	9.68
11	20.94	1.95	1221	7.28	4.76	11.00	0.00	4.50	4.57	10.13	0.16	0.00	3.68	4.48	11.20
12	20.02	1.98	1254	7.61	4.78	11.16	0.00	5.17	4.20	10.34	0.10	0.00	3.77	4.79	11.24
1981	245.03	2.22	1384	7.47	5.76	13.69	0.00	4.67	4.60	12.40	0.26	0.00	4.29	4.23	13.41

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	20.35	2.20	1366	7.29	5.34	12.74	0.00	5.74	4.04	11.81	0.11	0.00	4.16	4.00	13.55
2	7.81	5.54	3322	7.32	8.02	23.47	0.00	13.53	12.40	28.85	0.32	0.00	8.57	4.00	42.97
3	20.37	1.86	1136	7.42	3.93	9.35	0.00	5.17	4.24	8.53	0.16	0.00	4.03	2.68	11.40
4	21.04	1.50	1180	7.21	3.92	9.43	0.00	4.35	5.54	8.72	0.19	0.00	4.12	3.65	11.03
5	18.48	2.45	1685	7.24	6.78	16.61	0.00	4.97	5.34	15.40	0.21	0.00	4.81	9.29	11.83
6	29.37	2.00	1393	7.76	6.82	15.60	0.00	5.06	2.47	13.24	0.13	0.00	4.16	8.44	8.29
7	38.50	1.76	1237	7.65	5.41	12.83	0.00	5.26	2.33	10.55	0.27	0.00	4.81	6.17	7.36
8	44.59	1.87	1277	7.53	6.34	15.01	0.00	4.57	2.43	11.86	0.42	0.00	5.21	4.97	8.76
9	42.07	2.06	1363	7.42	6.82	16.20	0.00	2.91	4.64	13.26	0.18	0.00	5.07	5.20	10.66
10	36.42	1.56	998	7.38	3.28	7.97	0.00	3.79	4.83	6.81	0.10	0.00	4.71	2.55	8.28
11	31.69	1.55	979	7.31	3.80	8.71	0.00	3.77	4.01	7.49	0.04	0.00	3.78	3.30	8.25
12	28.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	339.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 10 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	26.24	1.42	849	7.36	3.31	7.25	0.00	3.44	3.76	6.29	0.10	0.00	3.14	1.90	8.55
2	6.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	18.31	2.10	1308	7.56	6.64	14.58	0.00	5.01	2.56	12.92	0.12	0.00	3.38	4.64	12.60
4	17.85	2.10	1244	7.71	6.28	13.54	0.00	5.51	2.11	12.25	0.12	0.00	3.07	2.81	14.11
5	16.04	2.02	1327	7.26	6.69	15.09	0.00	4.69	2.68	12.84	0.20	0.00	3.93	5.85	10.63
6	19.22	1.38	979	7.65	4.21	9.89	0.00	3.76	2.76	7.61	0.20	0.00	4.92	4.26	5.16
7	30.50	1.64	1071	8.18	6.15	13.58	0.00	3.92	1.76	10.38	0.16	0.00	4.23	3.43	8.57
8	31.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	37.31	1.93	1284	7.57	5.98	13.95	0.00	5.08	2.67	11.77	0.15	0.10	4.32	5.50	9.67
10	37.73	1.46	939	8.24	3.42	7.83	0.00	3.93	3.84	6.75	0.18	0.25	3.44	3.93	6.91
11	25.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	26.34	1.56	1019	7.64	3.79	8.89	0.00	4.11	3.89	7.59	0.12	0.01	4.12	3.80	7.79
1983	292.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH07 : ADD QASSABI PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 / PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION Q=QD+B*H
Q - DISCHARGE IN M**3 PER SECOND
QD = 6.008 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
B = 0.000 - SLOPE OF CAPACITY CURVE
H - SUCTION HEAD IN M
QCAP= 6.008 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
HAV = 2.190 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	20.18	2.85	1798	7.36	4.78	12.25	0.00	7.05	7.25	12.77	1.59	0.00	4.81	5.81	18.09
2	13.58	5.42	3336	7.44	8.58	22.59	0.00	12.63	11.97	30.08	0.74	0.00	4.45	11.19	39.76
3	20.42	2.22	1408	7.59	4.09	10.66	0.00	6.09	5.89	10.02	0.19	0.00	5.79	3.34	13.05
4	17.82	2.36	1491	7.48	5.41	13.65	0.00	5.88	4.85	12.53	0.17	0.00	5.84	3.22	14.37
5	18.93	2.17	1397	7.43	5.21	11.84	0.00	5.19	4.91	11.69	0.30	0.00	3.20	7.03	11.86
6	30.63	2.53	1586	7.55	5.08	12.76	0.00	7.75	4.54	12.59	0.34	0.00	4.72	4.71	15.78
7	38.46	2.64	1723	7.62	7.64	18.49	0.00	6.70	3.06	16.88	0.19	0.00	4.76	6.67	15.40
8	39.21	2.52	1609	7.46	4.59	11.98	0.00	5.81	7.61	11.90	0.32	0.00	5.48	5.33	14.78
9	40.55	2.45	1580	7.46	5.64	14.30	0.00	5.39	5.85	13.38	0.24	0.00	5.36	5.36	14.10
10	32.03	2.36	1544	7.52	6.25	15.99	0.00	5.29	4.57	13.87	0.15	0.00	6.32	4.12	13.39
11	24.72	2.98	1687	7.60	5.49	14.42	0.00	6.28	5.64	13.41	0.86	0.00	6.35	4.68	15.19
12	24.31	2.77	1850	7.69	7.30	17.57	0.00	4.80	6.53	17.38	0.36	0.00	4.14	10.06	14.83
1980	320.84	2.64	1688	7.51	5.79	14.68	0.00	6.31	5.75	14.21	0.40	0.00	5.17	5.76	15.72

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	21.72	2.34	1489	7.40	8.02	18.79	0.00	2.72	4.77	15.52	0.28	0.00	4.88	4.70	13.70
2	11.12	2.93	1779	7.06	6.81	17.47	0.00	6.88	4.83	16.48	0.33	0.00	5.78	2.56	20.19
3	23.12	2.14	1262	7.43	4.82	11.45	0.00	4.70	4.98	10.60	0.21	0.00	4.04	2.11	14.34
4	20.98	2.21	1388	7.63	5.29	12.72	0.00	3.83	6.21	11.85	0.23	0.00	4.27	4.98	12.84
5	18.49	2.14	1348	7.42	7.06	16.28	0.00	3.49	3.86	13.54	0.22	0.00	4.45	3.97	12.70
6	28.96	2.03	1873	7.78	8.73	21.09	0.00	2.97	6.76	19.26	0.36	0.00	4.85	8.91	15.54
7	42.44	3.08	2044	8.35	12.02	27.20	0.00	3.53	4.07	23.44	0.49	0.00	4.36	11.25	15.81
8	44.66	2.79	1648	7.72	6.05	15.30	0.00	4.82	7.10	14.78	0.25	0.00	5.12	2.37	19.45
9	47.17	2.11	1300	7.29	3.14	8.01	0.00	4.97	7.91	7.97	0.18	0.00	4.71	3.83	12.50
10	39.30	1.83	1179	7.79	4.05	9.53	0.00	5.12	4.38	8.83	0.16	0.00	3.80	4.95	9.74
11	17.71	2.04	1281	7.70	4.74	11.11	0.00	4.21	5.57	10.48	0.15	0.00	3.74	5.04	11.62
12	17.71	2.36	1474	7.34	5.85	13.88	0.00	4.56	5.66	13.23	0.11	0.00	3.96	5.51	14.09
1981	333.39	2.41	1519	7.54	6.20	14.97	0.00	4.29	5.71	13.86	0.26	0.00	4.49	5.28	14.33

LOCATION : EH07 : ADD QASSABI PS YEAR : 1982 CODE : 12
MEASUREMENT POINT CODE : 12 / PUMP STATION : BASIC DATA: DISCHARGE AND LIFTING HEAD

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	19.98	3.33	1944	7.35	7.33	18.29	0.00	7.21	5.94	18.80	0.13	0.00	4.60	2.85	24.63
2	6.65	10.02	5850	7.11	14.40	42.63	0.00	22.45	14.52	61.92	0.36	0.00	8.50	4.22	86.53
3	18.19	2.10	1285	7.35	4.60	11.09	0.00	5.90	4.18	10.33	0.12	0.00	4.22	3.09	13.22
4	16.26	2.15	1370	7.18	5.02	12.31	0.00	5.03	5.09	11.29	0.17	0.00	4.69	4.55	12.34
5	15.98	3.10	1884	7.29	5.91	15.04	0.00	7.28	7.35	15.99	0.17	0.00	4.65	5.17	20.96
6	20.07	2.21	1359	7.55	5.43	12.43	0.00	5.29	4.36	11.54	0.17	0.00	3.40	4.86	13.50
7	31.67	2.72	1484	7.61	7.05	17.05	0.00	4.73	3.47	14.27	0.19	0.00	5.30	5.82	11.55
8	37.74	2.31	1581	7.76	7.76	18.69	0.00	3.90	4.34	15.75	0.09	0.00	5.25	7.66	11.17
9	37.79	2.48	1654	7.53	7.21	17.85	0.00	3.76	5.93	15.87	0.10	0.00	5.40	7.22	13.05
10	31.88	1.88	1236	7.20	5.74	13.67	0.00	2.98	4.72	11.26	0.10	0.00	4.93	4.45	9.67
11	21.76	1.97	1241	7.55	4.95	11.66	0.00	4.52	4.50	10.51	0.05	0.00	4.06	4.32	11.20
12	20.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	278.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH07 : ADD QASSABI PS YEAR : 1983 CODE : 11
MEASUREMENT POINT CODE : 11 / PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	21.65	1.77	1073	7.69	3.48	8.11	0.00	4.51	5.03	7.60	0.12	0.00	3.53	3.20	10.52
2	6.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	20.83	1.96	1250	7.50	6.39	14.10	0.00	3.50	3.76	12.17	0.14	0.00	3.56	5.21	10.79
4	17.24	2.44	1522	7.55	8.05	19.19	0.00	3.67	4.16	15.93	0.19	0.00	5.19	3.43	15.33
5	16.70	2.47	1430	7.74	7.76	18.29	0.00	4.68	4.12	16.23	0.22	0.00	4.44	7.40	13.46
6	20.72	2.72	1783	8.07	7.91	18.96	0.00	4.64	5.38	17.70	0.26	0.00	4.47	8.16	15.35
7	35.88	2.27	1525	8.12	7.28	16.91	0.00	3.72	4.73	14.96	0.15	0.00	4.20	8.05	11.31
8	32.83	2.69	1827	8.10	8.54	20.16	0.00	3.91	5.56	18.58	0.18	0.00	4.35	10.76	13.13
9	34.39	2.37	1551	7.85	6.84	16.15	0.00	5.43	3.85	14.74	0.16	0.06	4.17	6.96	12.99
10	31.28	2.15	1468	8.13	5.25	12.91	0.00	5.83	4.68	12.03	0.09	0.16	4.50	7.91	10.02
11	20.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	22.34	1.79	1255	7.55	4.52	10.81	0.00	4.72	4.49	9.70	0.11	0.01	4.28	7.65	7.07
1983	281.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH08 : MAIN GASSABI PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 / PUMP STATION : BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 Q - DISCHARGE IN M³/S PER SECOND
 Q_0 = 6.263 - DISCHARGE IN M³/S PER SECOND AT ZERO SUCTION HEAD
 B = -0.342 - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 $OCAP$ = 5.432 - AVERAGE PUMP CAPACITY IN M³/S PER SECOND
 HAV = 2.430 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	17.40	4.73	3017.	7.76	9.58	24.47	0.00	8.90	10.37	29.72	0.26	0.00	4.36	13.07	31.81
2	10.05	7.32	4383.	7.34	12.15	32.51	0.00	14.01	14.02	45.50	0.36	0.00	4.82	10.41	38.66
3	16.67	3.55	2235.	7.55	6.36	16.83	0.00	8.22	9.10	18.72	0.25	0.00	5.35	7.88	23.02
4	17.63	3.87	2360.	7.55	6.62	16.32	0.00	8.29	10.24	20.16	0.46	0.00	3.45	8.98	26.73
5	14.95	4.93	3055.	7.56	10.37	25.04	0.00	9.97	7.94	31.03	1.15	0.00	3.39	11.10	35.61
6	21.97	4.85	2982.	7.40	9.43	24.45	0.00	8.04	11.26	29.29	0.64	0.00	4.73	9.64	34.83
7	32.22	4.65	2910.	7.35	11.69	29.35	0.00	7.52	7.35	31.86	0.49	0.00	4.80	9.83	32.59
8	33.25	4.36	2758.	7.53	10.18	26.46	0.00	7.60	7.78	28.24	0.79	0.00	5.58	9.19	29.63
9	33.24	3.87	2428.	7.54	8.65	22.62	0.00	7.30	7.62	23.54	0.54	0.00	5.74	7.36	26.00
10	28.24	3.38	2206.	7.49	7.11	18.95	0.00	6.01	8.54	19.17	1.16	0.00	6.41	7.79	20.63
11	18.48	4.23	2765.	7.43	8.56	23.51	0.00	9.81	8.05	25.38	0.55	0.00	7.00	9.85	27.14
12	18.70	4.25	2947.	7.50	9.89	24.99	0.00	8.76	8.10	28.73	0.66	0.00	4.45	18.77	22.98
1980	262.79	4.34	2745.	7.49	9.20	23.92	0.00	8.21	8.79	26.83	0.63	0.00	5.15	9.97	29.34

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	16.75	3.40	2132.	7.32	8.57	21.27	0.00	5.14	7.37	21.43	0.38	0.00	4.74	7.56	22.01
2	7.06	5.79	3604.	6.99	10.22	28.54	0.00	13.44	10.07	35.02	0.51	0.00	6.83	9.66	42.55
3	17.36	3.69	2168.	7.19	7.62	18.71	0.00	6.81	8.08	20.78	0.39	0.00	3.93	5.00	27.12
4	18.76	3.68	2289.	7.64	7.71	19.77	0.00	6.58	8.87	21.43	0.37	0.00	4.90	7.80	24.54
5	20.50	3.88	2372.	7.61	10.10	24.62	0.00	6.64	6.14	25.53	0.29	0.00	4.36	7.01	27.21
6	28.10	4.95	3068.	7.96	9.21	24.14	0.00	8.48	12.20	29.61	0.39	0.00	4.83	10.80	35.05
7	34.55	3.37	1968.	8.13	4.95	12.91	0.00	7.66	10.29	14.94	0.23	0.00	4.62	4.04	24.36
8	30.24	3.65	2083.	7.95	6.23	16.17	0.00	6.89	9.93	18.06	0.26	0.00	4.85	2.43	27.86
9	31.42	3.81	2340.	7.56	6.34	16.86	0.00	6.01	12.98	19.54	0.22	0.00	5.22	7.77	25.76
10	32.34	2.95	1813.	7.71	7.28	17.79	0.00	4.81	6.77	17.52	0.21	0.00	4.43	5.72	19.16
11	19.82	3.67	2228.	7.55	7.87	19.47	0.00	6.39	8.46	21.45	0.33	0.00	4.11	7.05	25.47
12	18.17	4.67	2561.	7.57	9.87	24.42	0.00	6.63	7.99	26.68	0.23	0.00	4.33	10.08	27.13
1981	275.07	3.79	2292.	7.59	7.53	19.24	0.00	6.77	9.33	21.35	0.29	0.00	4.68	6.69	26.37

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	23.01	3.98	2328.	7.40	8.53	21.42	0.00	8.23	6.86	23.42	0.12	0.00	4.49	4.21	29.94
2	10.35	9.03	5227.	7.39	11.61	33.93	0.00	19.31	19.08	50.89	0.34	0.00	7.26	5.14	77.23
3	20.72	3.51	2060.	7.44	7.26	18.14	0.00	6.67	7.79	19.52	0.20	0.00	4.37	4.19	25.62
4	19.70	3.55	2405.	7.41	7.94	20.25	0.00	6.55	9.06	22.18	0.30	0.00	4.73	13.76	19.56
5	16.43	5.59	3483.	7.27	10.74	28.95	0.00	10.30	11.26	35.28	0.41	0.00	5.74	10.94	40.59
6	28.02	4.23	2618.	7.64	9.26	23.20	0.00	7.71	8.43	26.30	0.40	0.00	4.32	9.04	29.48
7	36.87	4.05	2588.	7.32	10.22	25.99	0.00	6.40	7.82	27.34	0.17	0.00	5.19	10.01	26.43
8	37.22	4.09	2712.	7.70	11.23	29.05	0.00	6.27	7.29	29.23	0.09	0.00	6.03	11.83	25.01
9	35.34	4.33	2855.	7.40	12.45	31.80	0.00	5.74	7.43	31.95	0.18	0.00	5.81	12.27	27.25
10	30.58	3.47	2184.	7.16	9.28	23.28	0.00	5.81	6.31	22.84	0.06	0.00	5.21	6.68	23.30
11	22.38	2.82	1676.	7.38	6.85	16.15	0.00	5.44	5.74	16.19	0.06	0.00	3.72	4.39	19.35
12	15.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	295.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	15.64	3.24	1945.	7.36	7.55	17.90	0.00	6.82	5.82	18.99	0.23	0.00	3.60	5.69	22.57
2	5.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	20.03	3.96	2435.	7.30	10.90	25.44	0.00	6.07	6.28	27.08	0.25	0.00	3.60	8.54	27.54
4	19.17	4.03	2379.	7.65	10.12	24.13	0.00	5.67	7.50	25.97	0.29	0.00	3.80	5.81	29.81
5	18.64	3.95	2577.	7.88	11.60	27.88	0.00	6.19	5.95	28.58	0.29	0.00	4.28	11.91	24.82
6	21.28	4.87	3164.	8.16	15.66	37.54	0.00	6.64	5.21	38.11	0.28	0.00	4.56	14.60	31.11
7	31.48	4.14	2777.	8.20	13.22	32.27	0.00	5.81	5.78	31.83	0.24	0.01	4.91	14.14	24.60
8	31.85	4.31	2843.	8.29	11.98	30.66	0.00	5.65	8.08	31.38	0.26	0.25	5.43	12.39	27.29
9	33.27	4.87	2271.	8.21	9.03	22.38	0.00	7.00	6.75	23.67	0.21	0.17	4.29	4.43	28.72
10	27.32	3.37	2166.	8.18	7.02	17.54	0.00	9.28	6.11	19.47	0.08	0.49	3.69	10.13	20.58
11	17.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	14.59	3.57	2163.	7.54	11.41	25.81	0.00	4.89	4.86	25.18	0.22	0.04	3.58	6.63	24.89
1983	256.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION: EH09, GENEENA PS YEAR: 1980 CODE: 11
 MEASUREMENT POINT CODE: 11, PUMP STATION, BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 Q = DISCHARGE IN M³ PER SECOND
 Q₀ = 6.630 - DISCHARGE IN M³ PER SECOND AT ZERO SUCTION HEAD
 B = -0.843 - SLOPE OF CAPACITY CURVE
 H = SUCTION HEAD IN M
 QCAP = 5.011 - AVERAGE PUMP CAPACITY IN M³ PER SECOND
 HAV = 1.920 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	10.28	4.54	2726	7.41	11.09	28.79	0.00	5.67	8.91	29.95	0.27	0.00	5.84	5.46	33.49
2	8.59	5.58	3365	7.43	12.30	33.11	0.00	7.96	10.14	37.01	0.45	0.00	6.51	6.53	42.45
3	12.41	1.18	774	7.37	2.29	5.47	0.00	3.37	3.79	4.33	0.21	0.00	4.72	1.38	5.60
4	12.07	0.88	537	7.42	2.33	4.02	0.00	2.41	2.17	3.52	0.26	0.00	1.65	2.60	4.10
5	11.56	0.97	618	7.47	2.22	4.58	0.00	2.85	2.75	3.72	0.15	0.00	2.75	2.41	4.29
6	21.04	0.82	531	7.57	1.55	3.27	0.00	2.62	2.74	2.54	0.12	0.00	3.03	1.64	3.34
7	26.20	0.94	637	7.45	3.40	7.18	0.00	2.37	1.77	4.89	0.22	0.00	4.01	1.31	3.94
8	25.56	0.96	653	7.34	2.75	6.20	0.00	2.61	2.37	4.34	0.21	0.00	4.65	0.66	4.22
9	22.95	0.83	566	7.33	2.36	5.20	0.00	2.44	2.03	3.52	0.18	0.00	4.45	0.20	3.47
10	14.96	1.38	898	7.35	3.77	9.10	0.00	3.29	3.24	6.82	0.18	0.00	5.62	0.44	7.47
11	13.14	1.69	1073	7.58	4.23	10.23	0.00	3.69	4.34	8.47	0.14	0.00	5.01	2.21	9.45
12	11.66	1.74	1158	7.43	4.20	10.26	0.00	3.74	5.00	8.78	0.25	0.00	4.95	4.34	8.48
1980	190.42	1.49	939	7.42	4.18	9.61	0.00	3.21	3.46	7.64	0.21	0.00	4.32	1.92	8.26

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	10.95	2.31	1514	7.22	7.05	17.05	0.00	3.95	4.62	14.60	0.29	0.00	5.14	5.58	12.74
2	9.44	5.53	3634	7.21	13.52	35.33	0.00	8.85	8.96	40.36	0.24	0.00	5.55	15.96	36.89
3	14.41	1.49	918	7.22	5.37	11.46	0.00	2.84	2.48	8.75	0.18	0.00	3.71	1.83	8.70
4	11.89	1.60	1026	7.47	5.68	12.44	0.00	3.32	2.48	9.67	0.23	0.00	3.95	3.26	8.49
5	11.98	1.45	916	7.29	5.24	11.44	0.00	2.45	2.86	8.54	0.23	0.00	4.12	1.89	8.07
6	18.09	1.25	872	8.12	4.38	9.66	0.00	1.94	3.52	7.23	0.19	0.00	4.13	4.31	4.45
7	25.78	1.23	897	8.40	4.17	9.39	0.00	3.13	2.59	7.05	0.20	0.00	4.38	4.89	3.69
8	23.29	1.17	795	7.79	3.16	7.43	0.00	3.31	2.74	5.50	0.18	0.00	5.06	1.35	5.33
9	20.08	1.16	730	7.41	3.28	7.27	0.00	2.69	2.86	5.46	0.17	0.00	4.00	0.85	6.32
10	14.34	1.48	939	7.41	4.19	9.22	0.00	2.94	3.80	7.69	0.19	0.00	3.47	3.43	7.72
11	11.49	1.78	1118	7.21	5.58	12.40	0.00	3.75	3.14	10.35	0.21	0.00	3.74	3.53	10.17
12	11.19	2.03	1281	7.69	6.33	14.26	0.00	3.58	4.05	12.37	0.15	0.00	3.77	4.72	11.65
1981	182.94	1.68	1093	7.48	5.37	12.23	0.00	3.33	3.40	9.85	0.20	0.00	4.26	3.80	8.72

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	11.51	4.69	2736	7.42	10.31	26.54	0.00	6.36	9.66	29.18	0.46	0.00	5.15	4.21	36.30
2	6.89	7.46	4368	7.52	15.18	42.48	0.00	10.03	12.01	50.38	0.69	0.00	7.82	3.65	61.65
3	12.34	1.47	958	7.20	4.07	9.21	0.00	3.18	3.72	7.56	0.25	0.00	3.89	3.60	7.21
4	12.46	1.57	1048	7.13	5.25	11.92	0.00	3.33	2.96	9.31	0.23	0.00	4.39	3.90	7.54
5	11.88	1.60	1015	7.55	4.15	9.78	0.00	3.34	4.17	8.04	0.20	0.00	4.51	2.51	8.73
6	18.46	1.09	711	7.83	2.70	5.93	0.00	3.14	2.77	4.64	0.20	0.00	3.60	2.08	5.07
7	25.88	1.19	788	7.72	4.51	9.78	0.00	3.77	0.83	6.85	0.17	0.00	4.34	1.28	6.00
8	24.22	1.46	1014	7.36	6.53	14.60	0.60	2.63	2.08	10.02	0.09	0.00	5.30	3.31	6.20
9	22.26	1.57	1042	7.20	6.19	13.67	0.00	1.75	3.69	10.21	0.13	0.00	4.39	4.05	7.35
10	15.93	1.52	935	7.06	3.84	8.99	0.00	2.57	4.65	7.29	0.18	0.00	4.45	1.42	8.81
11	15.41	1.31	825	7.58	4.62	9.70	0.00	2.72	2.47	7.45	0.06	0.00	3.41	2.39	6.89
12	13.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	190.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	13.38	0.99	623	7.41	2.73	5.59	0.00	2.65	2.43	4.35	0.12	0.00	2.91	1.73	4.92
2	5.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	13.05	1.30	842	7.39	4.51	9.43	0.00	2.79	2.54	7.37	0.14	0.00	3.27	3.28	6.29
4	13.69	1.23	809	7.35	3.88	8.28	0.00	2.97	2.64	6.50	0.14	0.00	3.40	3.36	5.48
5	13.77	1.44	976	7.73	4.50	10.16	0.00	4.05	2.35	8.05	0.14	0.00	4.10	4.24	6.25
6	19.03	0.97	671	7.97	4.14	8.36	0.00	2.38	1.54	5.79	0.11	0.00	3.53	2.35	3.95
7	26.87	0.59	659	8.43	4.09	8.42	0.04	2.22	1.63	5.67	0.07	0.01	3.88	1.78	3.93
8	23.07	1.09	781	8.36	4.91	10.87	1.33	1.92	2.17	7.02	0.11	0.37	5.05	2.10	3.69
9	22.67	0.90	634	8.22	3.51	7.23	0.00	1.86	2.20	5.01	0.11	0.11	3.52	2.91	2.64
10	15.25	0.93	597	8.17	2.65	5.68	0.00	2.60	2.26	4.14	0.06	0.33	3.32	1.24	4.17
11	11.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	13.26	1.36	863	7.48	3.39	7.81	0.00	3.82	3.09	6.30	0.11	0.02	4.14	1.78	7.38
1983	190.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH10 : ERAD PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 PUMP STATION : BASIC DATA : PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION. Q=QD+B*H
Q - DISCHARGE IN M**3 PER SECOND
QD = 14.424 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
B = -1.523 - SLOPE OF CAPACITY CURVE
H - SUCTION HEAD IN M
QCAP = 9.834 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
HAY = 3.010 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	46.74	5.34	3122	7.35	9.65	24.64	0.00	9.32	11.73	31.30	0.35	0.00	4.14	6.81	41.76
2	28.23	7.16	4193	7.47	11.33	30.32	0.00	12.21	16.14	42.68	0.41	0.00	4.74	8.20	58.50
3	46.42	2.36	1468	7.47	3.95	10.36	0.00	5.21	7.49	9.95	0.76	0.00	5.80	2.87	14.75
4	52.01	2.51	1584	7.43	6.72	16.97	0.00	5.01	4.80	14.89	0.17	0.00	5.91	3.42	15.58
5	45.21	2.93	1792	7.57	7.67	17.67	0.00	5.36	5.37	17.77	0.50	0.00	3.45	6.12	19.41
6	69.78	7.70	1686	7.55	6.78	16.64	0.00	6.67	4.05	15.69	0.37	0.00	4.75	4.72	17.28
7	81.66	2.78	1782	7.46	7.58	18.73	0.00	5.44	5.02	17.33	0.26	0.00	5.11	6.26	16.68
8	90.79	2.74	1694	7.78	7.30	18.25	0.00	5.24	5.01	16.54	0.18	0.00	5.48	3.58	17.92
9	94.18	2.42	1530	7.57	6.43	15.62	0.00	4.87	5.00	14.27	0.20	0.00	5.06	3.53	15.74
10	72.76	2.12	1364	7.45	4.63	12.02	0.00	5.13	5.31	10.59	0.18	0.00	6.31	2.65	12.26
11	63.57	3.02	1985	7.11	6.33	16.76	0.00	5.22	8.82	16.77	0.56	0.00	6.14	7.80	17.42
12	54.72	3.10	2086	7.50	9.45	22.30	0.00	4.24	6.29	21.69	0.28	0.00	4.11	12.65	15.74
1980	746.06	3.01	1872	7.46	7.12	17.98	0.00	5.77	6.37	17.54	0.32	0.00	5.17	5.38	19.43

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	32.69	2.85	1978	7.34	7.70	19.11	0.00	3.62	8.11	18.65	0.33	0.00	4.84	12.30	13.53
2	25.46	3.07	2078	7.09	5.89	15.85	0.00	7.92	7.78	16.50	0.33	0.00	6.26	9.53	16.74
3	36.99	2.40	1438	7.38	5.93	13.65	0.00	4.45	5.43	13.18	0.32	0.00	3.50	4.00	15.85
4	36.42	2.76	1719	7.78	6.74	16.17	0.00	5.11	6.20	16.02	0.32	0.00	4.04	6.36	17.20
5	32.26	2.74	1669	7.60	6.54	15.98	0.00	4.74	6.52	15.51	0.23	0.00	4.46	4.55	18.03
6	46.41	2.85	1884	7.67	9.26	22.02	0.00	4.03	5.19	19.87	0.31	0.00	4.68	8.74	15.99
7	59.69	3.21	2173	7.69	12.76	29.20	0.00	3.61	4.01	24.91	0.50	0.00	4.66	13.52	14.85
8	67.69	2.81	1837	7.74	8.20	20.34	0.00	4.46	5.63	18.41	0.25	0.00	5.43	7.07	16.24
9	60.54	2.52	1529	7.23	7.26	17.42	0.00	3.90	5.03	15.33	0.20	0.00	4.81	3.15	16.50
10	49.45	2.56	1540	7.40	6.94	16.60	0.00	4.63	4.84	15.09	0.23	0.00	4.50	3.09	17.21
11	41.93	2.79	1679	7.59	6.72	16.36	0.00	5.01	6.14	15.86	0.26	0.00	4.42	3.94	18.92
12	38.73	3.46	2188	7.52	6.24	15.78	0.00	7.90	9.30	18.29	0.18	0.00	4.11	9.60	21.95
1981	528.28	2.81	1803	7.47	7.63	18.59	0.00	4.75	5.91	17.61	0.29	0.00	4.66	7.09	16.82

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	36.89	4.06	2399	7.31	7.47	19.21	0.00	8.10	9.53	22.17	0.20	0.00	4.58	5.49	29.94
2	18.03	8.15	4815	7.49	12.72	36.13	0.00	14.03	17.02	50.13	0.40	0.00	6.78	7.61	67.18
3	33.74	2.45	1484	7.47	5.73	13.74	0.00	5.20	5.35	13.15	0.26	0.00	4.13	3.80	16.03
4	36.20	2.43	1608	7.22	6.27	15.12	0.00	5.16	5.38	14.41	0.20	0.00	4.28	7.93	12.94
5	33.72	2.97	1850	7.25	6.17	15.75	0.00	6.12	7.43	16.07	0.24	0.00	4.99	5.85	19.01
6	49.39	2.79	1753	7.48	6.31	15.88	0.00	5.36	6.82	15.58	0.30	0.00	4.94	5.75	17.38
7	66.18	2.56	1691	7.59	8.33	20.39	0.00	4.96	3.64	17.28	0.17	0.00	5.65	6.07	14.33
8	66.17	2.90	1959	7.59	10.14	24.68	0.00	3.84	4.95	21.26	0.14	0.00	3.59	9.14	15.46
9	64.30	2.78	1780	7.51	8.83	21.40	0.00	3.40	5.66	18.79	0.17	0.00	5.21	6.17	16.68
10	53.61	2.50	1561	7.19	6.90	16.66	0.00	3.50	6.06	15.08	0.18	0.00	4.70	4.70	15.58
11	49.08	2.32	1402	7.60	6.10	14.00	0.00	4.27	5.11	13.22	0.06	0.00	3.97	4.19	14.93
12	41.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	549.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	43.04	2.06	1254	7.64	5.60	12.34	0.00	4.31	4.06	11.46	0.26	0.00	3.14	4.22	12.72
2	13.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	39.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	37.46	2.72	1755	7.51	8.31	19.26	0.00	3.20	6.33	18.14	0.16	0.00	3.91	8.35	15.58
5	38.32	2.60	1728	7.57	9.27	21.06	0.00	3.87	4.13	18.55	0.19	0.00	4.07	9.16	13.51
6	48.36	2.66	1729	8.01	8.70	20.06	0.00	4.03	4.74	18.22	0.17	0.00	4.07	7.95	15.11
7	67.90	2.52	1670	7.88	9.01	20.83	0.00	3.50	4.36	17.86	0.18	0.00	4.49	7.88	13.48
8	56.63	3.05	1555	6.40	11.47	28.08	0.00	3.27	4.93	23.23	0.16	0.00	6.26	8.81	16.52
9	63.01	2.41	1507	7.66	8.19	18.69	0.00	3.50	4.17	16.04	0.15	0.08	4.12	4.90	14.76
10	52.44	2.15	1397	8.05	5.84	14.03	0.00	3.71	5.60	12.59	0.08	0.25	4.29	6.00	11.42
11	42.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	43.60	2.40	1515	7.59	7.51	17.32	0.00	4.61	3.75	15.36	0.15	0.01	4.08	5.35	14.45
1983	546.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH11 : SAHR MADUS BRIDGE YEAR : 1980 CODE : 22
MEASUREMENT POINT CODE : 22 ; OPEN DRAIN ; BASIC DATA : WATER LEVEL MEASUREMENTS

DISCHARGE RELATION: $Q = A \cdot (H - H_M)^{0.930}$
 Q = DISCHARGE IN M³ PER SECOND
 A = 109.730 - DISCHARGE COEFFICIENT
 H_M = 3.000 - DATUM HM VALUE IN M FOR ZERO DISCHARGE
 H = DISTANCE BETWEEN REF. POINT AND WATERLEVEL IN M
 B = 1.380 - DISCHARGE EXPONENT
 R² = 0.930 - CORRELATION COEFFICIENT

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	80.29	2.75	1673	7.42	5.90	14.56	0.00	5.49	6.85	14.66	0.20	0.00	4.34	4.82	18.04
2	78.55	2.00	1269	7.34	4.22	10.31	0.00	5.35	4.89	9.55	0.22	0.00	4.43	4.18	11.40
3	97.75	1.86	1203	7.55	3.34	8.48	0.00	4.94	5.88	7.76	0.21	0.00	5.21	3.75	9.83
4	105.30	2.28	1472	7.52	6.07	15.37	0.00	4.63	4.79	13.17	0.24	0.00	6.13	3.53	13.13
5	128.21	2.15	1354	7.46	5.71	12.89	0.00	4.78	4.36	12.20	0.16	0.00	3.33	5.67	12.50
6	88.89	2.34	1494	7.38	6.52	16.51	0.00	4.03	5.06	13.90	0.24	0.00	6.36	2.94	13.95
7	142.24	2.50	1611	7.33	8.06	19.26	0.00	3.62	4.68	16.43	0.40	0.00	5.03	5.56	14.54
8	177.78	2.47	1629	7.51	6.90	16.98	0.00	4.87	4.62	15.04	0.72	0.00	5.25	5.80	14.21
9	196.02	2.45	1576	7.55	6.86	16.52	0.00	4.76	4.74	14.94	0.29	0.00	4.66	5.80	14.28
10	74.37	2.12	1398	7.78	5.57	14.25	0.00	5.26	4.02	12.00	0.11	0.00	6.48	3.40	11.42
11	155.63	2.28	1581	7.66	5.98	15.29	0.00	6.00	4.25	13.53	0.19	0.00	6.10	6.86	10.99
12	168.18	2.22	1606	7.62	5.29	12.87	0.00	4.68	6.84	12.69	0.22	0.00	4.15	12.44	7.85
1980	1493.21	2.31	1514	7.50	6.00	14.81	0.00	4.84	5.06	13.36	0.29	0.00	5.05	5.90	12.59

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	26.56	2.12	1482	7.54	5.64	13.48	0.00	2.95	7.00	12.57	0.25	0.00	4.20	9.91	8.67
2	53.10	2.72	1586	7.08	8.12	19.02	0.00	4.02	4.65	16.90	0.23	0.00	4.40	1.95	19.46
3	115.56	1.78	1054	7.30	3.84	9.06	0.00	3.84	4.93	8.04	0.19	0.00	4.05	1.52	11.43
4	83.90	1.94	1256	7.51	4.96	11.91	0.00	5.10	3.70	10.40	0.25	0.00	4.59	4.30	10.55
5	73.64	1.79	1143	7.43	4.56	10.98	0.00	3.79	4.50	9.29	0.21	0.00	4.77	3.07	9.95
6	68.43	2.66	1747	7.97	7.39	18.28	0.00	5.12	5.21	16.80	0.15	0.00	5.16	7.18	14.95
7	89.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	141.78	2.36	1492	7.74	6.21	15.46	0.00	4.88	4.71	13.60	0.22	0.00	5.46	3.68	14.28
9	197.77	1.10	759	7.38	2.38	5.61	0.00	3.19	3.45	4.33	0.21	0.00	4.69	2.26	4.24
10	189.31	1.38	855	7.42	2.98	6.92	0.00	3.30	4.15	5.75	0.20	0.00	4.04	1.59	7.77
11	136.94	2.32	1451	7.41	5.78	13.61	0.00	4.54	5.51	12.97	0.17	0.00	3.84	5.45	13.90
12	199.97	2.40	1552	7.61	5.88	14.13	0.00	4.31	6.50	13.67	0.12	0.00	4.11	7.23	13.27
1981	1376.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	217.32	1.95	1139	7.38	3.66	8.78	0.00	4.07	5.94	8.19	0.06	0.00	4.00	3.61	10.65
2	74.13	1.48	915	7.43	3.13	7.37	0.00	4.29	3.71	6.26	0.09	0.00	4.12	1.82	8.41
3	185.11	1.32	853	7.36	3.18	7.25	0.00	3.67	3.36	5.96	0.11	0.00	3.85	2.71	6.54
4	114.41	1.46	905	7.25	3.59	8.18	0.00	3.28	3.91	6.81	0.18	0.00	3.83	2.14	8.22
5	116.34	1.97	1255	7.45	4.69	11.04	0.00	4.39	5.10	10.22	0.18	0.00	3.98	4.69	11.33
6	120.10	2.12	1329	7.54	5.57	12.97	0.00	4.73	4.25	11.80	0.23	0.00	3.92	4.66	12.42
7	140.19	2.22	1519	7.63	7.38	17.83	0.00	3.48	4.62	14.86	0.20	0.00	5.36	6.89	10.90
8	192.95	2.25	1555	7.53	7.99	19.33	0.00	3.64	4.07	15.69	0.09	0.00	5.70	7.24	10.55
9	174.33	2.48	1676	7.60	8.04	19.68	0.00	3.11	5.69	16.86	0.14	0.00	5.54	7.57	12.70
10	203.26	1.80	1194	7.53	5.60	13.03	0.00	3.70	3.65	10.74	0.15	0.00	4.47	4.96	8.81
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	88.42	2.21	1294	7.52	8.06	17.44	0.00	3.19	3.15	14.33	0.16	0.00	3.72	1.84	15.26
5	118.57	2.25	1469	7.75	8.30	18.49	0.00	4.08	2.94	15.54	0.17	0.00	3.99	6.40	12.34
6	116.61	2.60	1713	7.82	8.72	20.29	0.00	4.61	3.89	17.97	0.17	0.00	4.36	7.76	14.53
7	154.74	2.37	1605	8.14	7.92	18.86	0.00	4.38	3.90	16.12	0.18	0.01	4.91	7.70	11.94
8	164.43	2.31	1580	8.12	6.13	15.00	0.00	3.05	7.41	14.03	0.14	0.34	4.31	9.52	10.45
9	213.55	2.00	1318	7.85	6.39	14.63	0.00	3.64	4.13	12.59	0.08	0.13	3.94	6.24	10.13
10	243.85	2.00	1291	8.13	4.20	10.41	0.00	4.14	6.56	9.70	0.04	0.26	4.42	5.45	10.29
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	182.36	1.39	883	7.76	3.61	8.17	0.00	2.74	4.17	6.70	0.13	0.01	3.84	2.69	7.20
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH12 : SAFT PS YEAR : 1980 CODE : 11
MEASUREMENT POINT CODE : 11 PUMP STATION : BASIC DATA PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 $Q_0 = 8.558$ - DISCHARGE IN M³/S PER SECOND AT ZERO SUCTION HEAD
 $B = -0.964$ - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 $QCAP = 6.669$ - AVERAGE PUMP CAPACITY IN M³/S PER SECOND
 $HAV = 1.960$ - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	39.45	5.97	3306.	7.69	9.96	26.09	0.00	11.61	11.35	33.74	0.21	0.00	4.59	1.38	50.94
2	28.31	8.25	4823.	7.50	12.78	34.68	0.00	17.43	13.70	50.43	0.45	0.00	5.02	7.66	69.33
3	51.59	2.26	1448.	7.80	4.73	11.94	0.00	5.39	5.96	11.28	0.19	0.00	5.05	4.87	12.95
4	50.22	2.22	1370.	7.61	5.21	11.65	0.00	5.24	4.89	11.73	0.20	0.00	2.94	5.72	13.39
5	52.06	2.22	1377.	7.46	6.39	13.69	0.00	3.94	4.68	13.26	0.20	0.00	2.77	6.03	13.28
6	50.96	2.61	1672.	7.47	5.72	14.15	0.00	6.38	5.71	14.07	0.36	0.00	4.43	6.75	15.33
7	61.70	2.99	1999.	7.46	9.10	22.39	0.00	6.12	4.09	20.56	0.25	0.00	5.23	8.90	16.88
8	71.48	1.56	1001.	7.98	3.52	8.42	0.00	5.19	3.00	7.14	0.10	0.00	4.48	2.45	8.50
9	64.90	2.19	1401.	7.62	5.75	14.07	0.00	4.85	4.51	12.45	0.11	0.00	4.95	4.45	12.51
10	73.76	2.23	1463.	7.61	5.90	15.13	0.00	5.68	3.77	12.82	0.15	0.00	6.58	3.22	12.62
11	47.16	2.48	1700.	7.49	6.19	16.24	0.00	5.69	5.37	14.57	0.28	0.00	6.77	6.48	12.73
12	57.63	2.31	1584.	7.78	6.19	14.72	0.00	4.43	5.82	14.01	0.22	0.00	4.06	9.61	10.86
1980	649.22	2.78	1744.	7.61	6.61	16.42	0.00	6.21	5.47	15.96	0.21	0.00	4.78	5.51	17.56

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	45.56	2.12	1375.	7.35	6.94	16.38	0.00	2.80	4.78	13.51	0.24	0.00	4.90	4.73	11.71
2	20.94	3.29	2149.	6.95	6.14	16.79	0.00	8.75	7.32	17.41	0.43	0.00	6.88	7.09	19.94
3	54.74	2.21	1343.	7.33	5.84	13.46	0.00	4.54	4.29	12.27	0.37	0.00	3.78	3.68	14.01
4	54.31	2.29	1422.	7.76	6.01	14.10	0.00	3.93	5.48	13.03	0.26	0.00	3.99	4.84	13.87
5	43.50	2.44	1598.	7.57	6.64	15.68	0.00	4.64	5.13	14.67	0.21	0.00	4.09	6.38	14.17
6	46.18	2.89	1837.	8.00	4.66	16.39	0.00	6.34	6.17	16.67	0.18	0.00	4.31	7.47	17.58
7	56.98	2.42	1398.	8.38	3.71	9.41	0.00	6.20	7.25	9.62	0.13	0.00	4.55	1.66	16.99
8	63.95	2.62	1518.	7.81	5.71	14.34	0.00	5.64	5.92	13.49	0.19	0.00	5.11	0.84	18.88
9	62.31	2.69	1639.	7.27	6.68	16.57	0.00	4.93	5.76	15.44	0.21	0.00	5.02	3.56	17.77
10	70.74	2.28	1408.	7.67	5.95	14.03	0.00	5.14	4.21	12.87	0.19	0.00	4.09	4.08	14.24
11	49.37	2.70	1620.	7.48	6.16	15.05	0.00	5.97	5.42	14.69	0.20	0.00	4.38	3.62	18.30
12	50.13	2.33	1402.	7.59	6.18	14.38	0.00	5.56	3.60	13.22	0.14	0.00	3.92	3.16	15.44
1981	618.72	2.48	1519.	7.52	5.95	14.47	0.00	5.21	5.30	13.64	0.22	0.00	4.48	3.95	15.95

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	48.36	3.77	2171.	7.28	7.76	19.30	0.00	8.58	6.35	21.19	0.14	0.00	4.22	3.23	28.69
2	25.76	7.50	4485.	7.26	10.87	32.59	0.00	16.73	14.82	43.15	0.32	0.00	9.75	4.96	60.18
3	51.84	2.29	1362.	7.45	4.91	11.79	0.00	5.42	5.16	11.30	0.23	0.00	4.04	2.75	15.33
4	48.84	2.31	1432.	7.35	5.38	12.99	0.00	5.22	5.18	12.28	0.18	0.00	4.26	4.45	14.16
5	50.00	2.41	1516.	7.27	5.29	12.96	0.00	6.76	4.58	12.59	0.17	0.00	4.37	5.04	14.68
6	52.92	2.43	1525.	7.40	5.26	12.39	0.00	7.30	4.23	12.62	0.22	0.00	3.51	6.02	14.83
7	59.86	2.93	1963.	7.60	7.80	19.27	0.00	6.29	4.95	18.49	0.78	0.00	4.88	9.26	16.36
8	70.31	2.97	2034.	7.48	9.20	22.53	0.00	4.30	5.97	20.85	0.26	0.00	5.07	11.48	14.83
9	64.43	2.65	1766.	7.50	8.69	20.95	0.00	3.41	5.51	18.36	0.13	0.00	5.08	8.19	14.14
10	67.21	1.77	1157.	7.20	5.17	11.89	0.00	3.64	4.03	10.12	0.10	0.00	4.06	4.89	8.94
11	62.74	2.90	1760.	7.44	7.40	17.10	0.00	5.86	5.40	17.57	0.05	0.00	3.38	4.93	20.56
12	62.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	665.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	52.91	1.92	1202.	7.83	5.38	11.85	0.00	4.58	3.47	10.80	0.13	0.00	3.18	4.85	10.95
2	17.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	48.60	2.28	1452.	7.74	7.93	17.58	0.00	4.10	3.27	15.22	0.17	0.00	3.72	5.70	13.33
4	51.28	2.38	1471.	7.56	8.01	18.56	0.00	3.60	3.88	15.50	0.26	0.00	4.61	3.49	15.15
5	53.22	2.36	1537.	7.56	7.17	16.43	0.00	4.83	3.98	15.05	0.18	0.00	3.80	7.13	13.11
6	42.01	3.31	2.82.	7.63	9.29	22.38	0.00	5.73	6.06	22.57	0.17	0.00	4.23	10.90	19.41
7	48.35	2.97	1961.	8.04	9.02	21.56	0.00	4.45	5.81	20.42	0.14	0.01	4.43	9.62	16.76
8	63.69	1.62	1086.	8.29	6.28	14.20	0.00	2.73	2.97	10.61	0.15	0.43	4.35	4.37	7.29
9	63.71	2.57	1610.	8.36	8.04	18.55	0.00	5.04	3.68	16.78	0.15	0.38	3.67	5.82	15.77
10	66.10	2.23	1413.	7.71	4.92	11.96	0.00	6.23	4.72	11.52	0.05	0.41	3.80	5.69	12.63
11	44.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	55.53	2.04	1242.	7.22	4.92	11.75	0.00	5.43	3.71	10.52	0.13	0.02	4.31	2.47	12.96
1983	607.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH13 : BAHR HADUS DUTFALL YEAR : 1980 CODE : 24
 THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	3.99	2491.	7.64	10.24	25.44	0.00	8.19	5.28	26.58	0.15	0.00	4.68	8.31	27.16
2	-	4.08	2559.	7.36	8.78	22.27	0.00	8.30	8.03	25.10	0.20	0.00	4.55	9.48	27.60
3	-	2.32	1485.	7.44	4.80	12.29	0.00	5.46	6.19	11.58	0.20	0.00	5.45	4.56	13.43
4	-	2.31	1466.	7.36	5.95	13.39	0.00	4.75	5.15	13.24	0.17	0.00	3.14	6.91	13.40
5	-	2.14	1443.	7.49	6.09	13.71	0.00	4.67	4.50	13.04	0.14	0.00	3.31	8.83	10.26
6	-	2.48	1519.	7.19	5.94	14.06	0.00	5.57	4.93	13.61	0.23	0.00	4.34	4.08	15.95
7	-	2.70	1752.	7.30	7.93	19.36	0.00	4.87	4.87	17.51	0.19	0.00	5.02	6.73	15.70
8	-	2.70	1761.	7.48	6.67	16.82	0.00	5.57	5.49	15.70	0.75	0.00	5.38	6.40	15.73
9	-	2.67	1721.	7.45	6.77	16.98	0.00	5.36	5.49	15.76	0.43	0.00	5.33	5.83	15.87
10	-	2.35	1526.	7.53	7.26	18.10	0.00	4.16	3.98	14.64	0.63	0.00	6.40	3.19	13.82
11	-	2.68	1800.	7.62	6.48	16.82	0.00	6.18	5.44	15.61	0.53	0.00	6.19	7.04	14.54
12	-	2.58	1860.	7.79	8.04	19.62	0.00	4.86	4.87	17.74	0.33	0.00	5.05	13.37	9.39
1980	-	2.74	1779.	7.45	7.10	17.57	0.00	5.65	5.34	16.65	0.33	0.00	4.91	7.06	16.02

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.68	1082.	7.18	5.25	12.03	0.00	3.20	3.56	9.66	0.23	0.00	4.36	3.33	8.97
2	-	2.50	1613.	7.31	6.67	16.38	0.00	4.76	5.30	14.97	0.30	0.00	4.94	5.86	14.53
3	-	2.87	1880.	7.52	7.07	17.94	0.00	6.84	5.05	17.25	0.29	0.00	5.36	7.42	16.65
4	-	2.55	1752.	7.55	6.61	17.04	0.00	7.21	3.74	15.48	0.23	0.00	6.21	7.44	13.03
5	-	2.60	1778.	7.70	5.90	15.06	0.00	7.87	4.61	14.73	0.21	0.00	5.26	8.88	13.29
6	-	2.45	1617.	7.92	6.82	16.55	0.00	5.42	4.39	15.11	0.22	0.00	4.71	6.99	13.45
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	2.53	1497.	7.85	6.04	15.12	0.00	5.12	5.15	13.70	0.21	0.00	5.34	1.27	17.58
9	-	2.12	1258.	7.50	4.86	11.83	0.00	5.51	3.91	10.55	0.21	0.00	4.68	1.12	14.41
10	-	1.90	1129.	7.48	4.42	10.40	0.00	4.75	3.93	9.20	0.21	0.00	4.11	1.44	12.60
11	-	2.50	1568.	7.22	6.12	14.60	0.00	5.26	5.40	14.14	0.22	0.00	4.01	5.93	15.09
12	-	2.47	1542.	7.42	5.07	12.23	0.00	5.13	7.11	12.53	0.13	0.00	3.81	6.39	14.70
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 15 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	3.23	1813	7.50	5.61	14.06	0.00	6.44	8.72	15.44	0.14	0.00	4.15	1.77	24.82
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	2.14	1275.	7.50	6.43	14.75	0.00	4.73	2.89	12.54	0.19	0.00	4.17	1.81	14.36
4	-	2.13	1362.	7.35	4.89	11.80	0.00	5.05	5.15	11.04	0.22	0.00	4.26	5.27	11.95
5	-	1.97	1241.	7.38	5.24	12.30	0.00	4.22	4.32	10.82	0.17	0.00	4.19	3.97	11.36
6	-	2.08	1322.	7.51	5.15	12.12	0.00	4.87	4.39	11.08	0.41	0.00	4.01	4.96	11.79
7	-	2.65	1749.	7.52	7.61	18.54	0.00	4.67	5.27	16.97	0.36	0.00	4.87	7.64	14.77
8	-	2.60	1718	7.41	8.65	19.18	0.00	4.34	4.30	17.99	0.14	0.00	3.38	10.00	13.38
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	1.97	1293	7.17	6.01	13.96	0.00	2.91	5.01	11.97	0.17	0.00	4.24	5.85	9.96
11	-	1.93	1224.	7.47	5.08	11.64	0.00	4.20	4.47	10.57	0.08	0.00	3.65	4.91	10.76
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 7 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	1.81	1103.	7.82	3.58	8.45	0.00	4.24	5.48	7.90	0.14	0.00	3.74	3.16	10.85
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	2.61	1788.	8.16	8.90	21.41	0.00	3.71	5.02	18.58	0.09	0.01	5.14	9.59	12.66
8	-	2.69	1727.	8.15	8.69	20.80	0.00	3.41	5.43	18.26	0.18	0.37	4.56	6.80	15.54
9	-	2.47	1505.	8.00	7.15	16.99	0.00	4.66	4.09	14.96	0.29	0.02	4.59	3.20	16.19
10	-	2.14	1415.	7.97	5.41	13.17	0.00	5.41	4.08	11.78	0.52	0.00	4.75	5.70	11.35
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	2.52	1491.	7.82	7.54	17.73	0.00	4.42	3.98	15.46	0.16	0.00	4.52	1.93	17.61
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EH16 - EL ARIN BRIDGE YEAR : 1982 CODE : 24
 THE WATER QUALITY DATA DURING 1982 ARE BASED ON 16 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	1.52	1019	7.67	2.85	7.21	0.00	5.69	3.54	6.12	0.05	0.00	5.56	2.49	7.36
3	-	0.98	666	7.70	2.04	4.61	0.00	3.45	2.75	3.60	0.08	0.00	3.85	2.31	3.72
4	-	1.50	1023	7.44	3.92	9.22	0.00	3.56	4.08	7.67	0.14	0.00	4.37	4.89	6.19
5	-	0.85	589	7.44	2.33	5.06	0.00	3.50	1.27	3.59	0.11	0.00	3.93	1.29	3.25
6	-	1.12	762	7.51	3.33	7.39	0.00	4.10	1.40	5.52	0.17	0.00	4.04	2.42	4.71
7	-	1.45	1046	7.73	5.24	12.46	0.11	3.46	2.38	8.96	0.28	0.00	5.94	3.63	5.50
8	-	1.67	1188	7.65	6.64	15.59	0.00	3.11	2.79	11.40	0.11	0.00	5.76	4.88	6.79
9	-	1.31	920	7.68	5.50	12.02	0.00	2.25	2.57	8.54	0.09	0.00	4.49	4.18	4.79
10	-	0.84	589	7.22	3.62	7.33	0.22	1.91	1.66	4.83	0.02	0.00	3.78	1.71	3.00
11	-	0.62	566	7.64	2.45	5.12	0.00	2.49	2.02	3.68	0.05	0.00	3.42	2.00	2.83
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.94	644	7.63	2.70	5.84	0.00	2.85	2.20	4.28	0.09	0.00	3.74	2.24	3.44
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	1.51	1064	8.00	4.97	11.09	0.00	3.88	2.79	9.08	0.10	0.00	3.83	6.37	5.65
4	-	1.36	860	7.85	4.15	8.78	0.00	3.24	2.75	7.19	0.11	0.00	3.15	3.20	6.96
5	-	1.24	847	7.89	4.30	9.58	0.00	3.65	1.66	7.00	0.13	0.00	4.43	2.65	5.36
6	-	1.33	937	7.97	5.11	11.51	0.00	3.45	1.78	8.26	0.12	0.00	4.85	3.64	5.11
7	-	1.28	926	7.93	5.41	11.91	0.00	3.20	1.62	8.39	0.11	0.00	4.67	4.24	4.42
8	-	1.36	970	7.94	5.62	12.30	0.00	2.49	2.59	8.95	0.13	0.06	4.31	5.31	4.48
9	-	1.03	676	8.52	3.82	8.11	0.00	1.87	2.52	5.66	0.12	0.36	3.64	1.80	4.36
10	-	0.96	662	7.93	2.84	6.27	0.00	2.43	2.75	4.57	0.08	0.41	3.64	2.51	3.29
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	1.04	704	7.50	2.86	6.61	0.00	2.52	2.98	4.74	0.11	0.02	4.88	0.96	4.49
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION E101 BARR FADUR AT FAQUS YEAR : 1982 CODE : 24
 THE WATER QUALITY DATA DURING 1982 ARE BASED ON 14 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.96	683.	7.27	2.12	4.94	0.00	3.81	2.16	3.67	0.13	0.00	4.60	2.00	3.23
2	-	0.57	378.	7.37	1.68	3.05	0.00	2.00	1.26	2.15	0.10	0.00	2.40	0.97	2.14
3	-	0.59	395.	7.61	1.26	2.51	0.00	2.50	1.33	1.74	0.09	0.00	2.99	0.61	2.06
4	-	0.65	427.	7.15	1.26	2.58	0.00	2.34	1.94	1.84	0.12	0.00	3.11	0.68	2.46
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	0.55	402.	7.40	1.44	2.78	0.00	2.37	1.09	1.89	0.17	0.00	2.90	1.72	0.89
7	-	0.55	404.	7.63	1.41	2.78	0.00	2.55	0.81	1.82	0.30	0.00	3.25	1.04	1.20
8	-	0.67	446.	7.28	2.22	4.28	0.00	1.84	1.62	2.92	0.11	0.00	2.97	0.91	2.61
9	-	0.73	524.	7.42	2.75	5.48	0.00	2.38	1.23	3.70	0.09	0.00	3.37	1.91	2.14
10	-	0.75	545.	7.38	2.17	4.58	0.00	2.55	1.88	3.23	0.03	0.00	3.60	2.16	2.06
11	-	0.66	472.	7.43	1.99	4.04	0.00	2.43	1.39	2.76	0.05	0.00	3.34	1.65	1.64
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	-	0.61	435.	7.25	2.02	3.99	0.00	2.54	0.79	2.61	0.11	0.00	3.33	1.03	1.64
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	0.63	447.	7.57	2.24	4.30	0.00	1.94	1.39	2.88	0.10	0.00	3.03	1.53	1.75
4	-	0.64	442.	7.28	1.60	3.29	0.00	1.61	2.37	2.26	0.09	0.00	3.38	1.20	1.76
5	-	0.60	402.	7.68	1.74	3.34	0.00	1.51	2.01	2.31	0.09	0.00	2.80	1.05	1.95
6	-	0.63	427.	8.12	1.87	3.73	0.00	1.61	1.97	2.51	0.08	0.00	3.23	0.89	2.00
7	-	0.61	415.	8.31	1.74	3.48	0.00	1.61	1.97	2.33	0.11	0.00	3.31	0.59	1.99
8	-	0.58	421.	8.27	2.75	5.23	1.11	1.41	1.15	3.12	0.12	0.04	3.63	0.46	1.64
9	-	0.68	478.	7.80	1.37	2.93	0.00	2.88	1.80	2.09	0.10	0.30	3.28	1.57	1.75
10	-	0.83	582.	7.32	1.01	2.34	0.00	3.59	3.09	1.85	0.05	0.41	3.44	2.96	1.81
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	0.70	450.	7.10	1.19	2.38	0.00	2.81	2.03	1.84	0.08	0.02	2.49	1.52	2.78
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : EMOI : MATAREYA PS YEAR : 1980 CODE : 11
 MEASUREMENT POINT CODE : 11 PUMP STATION : BASIC DATA : PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: Q=Q0+B*H
 Q - DISCHARGE IN M**3 PER SECOND
 Q0 = 9.608 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 B = -0.431 - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 QCAP = 8.401 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 HAV = 2.800 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	15.76	8.06	4830	7.56	15.47	41.24	0.00	6.12	19.56	55.45	0.56	0.00	5.18	11.82	64.64
2	10.62	9.11	5433	7.64	17.71	47.67	0.00	7.06	19.61	64.66	0.69	0.00	5.56	11.39	74.93
3	15.33	6.68	3967	7.86	12.88	35.29	0.00	5.54	17.33	43.55	0.40	0.00	6.39	7.83	52.61
4	13.43	7.56	4648	7.53	15.18	37.72	0.00	6.58	17.51	52.67	1.15	0.00	5.58	15.82	58.44
5	15.36	7.86	4828	7.93	17.11	42.33	0.00	6.51	15.50	56.76	1.72	0.00	3.76	15.19	61.53
6	16.51	8.74	5281	7.47	16.34	43.92	0.00	7.17	19.91	60.11	1.71	0.00	5.37	12.72	70.81
7	18.39	7.44	4772	7.49	20.44	52.43	0.00	6.88	10.18	59.70	0.78	0.00	5.59	17.40	54.55
8	20.45	12.32	7478	7.52	23.43	63.21	0.00	8.43	23.71	93.91	0.57	0.00	5.40	17.28	103.95
9	21.05	9.99	6069	7.50	23.31	60.96	0.00	6.71	15.70	78.01	1.09	0.00	5.48	13.79	82.24
10	25.07	7.45	4742	7.52	16.23	45.03	0.00	6.03	16.04	53.90	1.56	0.00	7.46	15.12	54.94
11	22.35	8.82	5530	7.39	18.79	52.92	0.00	6.46	18.02	65.75	1.08	0.00	8.02	15.06	68.24
12	19.05	8.17	5443	7.67	19.21	50.27	0.00	5.30	17.32	64.60	0.80	0.00	5.22	28.56	54.24
1980	213.37	8.57	5310	7.55	18.28	48.95	0.00	6.56	17.44	63.32	1.03	0.00	5.75	15.50	67.09

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 18 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	17.97	5.69	3560	7.36	15.25	37.16	0.00	4.17	11.21	42.30	0.68	0.00	4.17	13.32	40.87
2	13.58	7.01	4309	7.29	13.79	36.86	0.00	8.23	15.61	47.62	0.37	0.00	5.39	13.02	53.42
3	17.60	5.69	3369	7.25	12.35	31.63	0.00	4.74	13.77	37.56	0.50	0.00	4.74	7.84	43.98
4	15.39	6.59	3931	7.47	14.04	36.73	0.00	4.51	15.95	44.90	0.69	0.00	5.19	9.21	51.65
5	14.09	7.00	4057	7.09	13.63	35.68	0.00	5.55	16.88	45.67	0.91	0.00	4.89	6.81	57.30
6	12.88	6.97	4435	7.69	16.65	43.69	0.00	6.07	13.75	52.42	0.53	0.00	5.58	15.94	51.25
7	14.88	7.70	4891	8.24	14.96	41.45	0.00	6.93	18.88	53.75	1.15	0.00	6.59	17.04	57.08
8	21.96	8.50	5436	7.87	21.21	55.84	0.00	4.74	15.63	67.71	1.07	0.00	5.90	19.43	63.81
9	23.83	7.62	4524	7.40	16.01	42.70	0.00	7.18	14.66	52.90	1.15	0.00	5.78	8.36	61.77
10	31.88	6.66	4108	7.76	19.18	47.01	0.00	9.87	4.58	51.57	0.97	0.00	4.71	11.01	51.26
11	22.89	6.90	4044	7.62	14.28	36.32	0.00	4.74	16.30	46.32	1.13	0.00	4.33	8.36	55.79
12	24.04	6.94	4405	6.51	12.82	33.49	0.00	10.62	15.32	46.15	0.49	0.00	4.42	19.27	48.88
1981	231.01	6.95	4268	7.21	15.48	40.22	0.00	6.72	13.75	49.52	0.84	0.00	5.08	12.48	53.27

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	25.13	7.33	4349	7.42	13.27	35.33	0.00	7.53	17.83	47.25	0.98	0.00	5.03	9.70	58.84
2	10.12	11.91	4973	7.47	17.71	51.60	0.00	9.14	30.69	79.05	1.09	0.00	7.56	9.07	103.34
3	13.22	7.00	4231	7.20	14.89	39.12	0.00	5.56	16.16	49.05	0.19	0.00	5.20	11.31	54.44
4	13.79	6.98	4383	7.07	15.51	40.80	0.00	5.45	15.75	50.50	0.69	0.00	5.35	15.36	51.68
5	14.34	7.64	4611	7.32	16.65	43.43	0.00	8.45	13.93	55.71	1.19	0.00	5.00	16.58	57.70
6	15.21	8.01	5141	7.38	16.65	43.68	0.00	9.79	14.67	58.21	1.70	0.00	4.92	19.76	59.69
7	19.90	6.79	4292	7.49	15.66	41.31	0.00	5.02	15.17	49.75	0.64	0.00	5.63	15.46	49.49
8	22.53	7.78	5075	7.18	16.94	44.58	0.00	4.81	19.09	58.55	0.88	0.00	5.09	22.58	55.67
9	19.96	8.97	3815	7.26	21.70	57.66	0.00	4.67	17.33	71.95	1.19	0.00	6.01	22.78	66.35
10	22.74	8.49	5441	7.36	19.11	50.85	0.00	5.88	17.31	65.09	1.19	0.00	5.70	20.28	63.50
11	21.75	7.25	4384	7.67	15.75	40.27	0.00	6.41	15.11	51.67	0.32	0.00	4.49	12.16	56.86
12	18.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	216.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	17.39	5.66	3323	7.22	13.08	31.85	0.00	5.21	11.74	38.08	0.80	0.00	3.81	7.53	44.49
2	8.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	15.78	7.40	4475	7.49	18.24	41.91	0.00	5.28	13.23	55.50	0.89	0.00	2.88	13.61	58.41
4	13.62	8.66	4860	7.41	18.39	44.26	0.00	5.98	15.91	60.84	1.03	0.00	3.31	4.54	75.91
5	14.20	8.07	4940	7.65	18.53	47.25	0.00	6.42	14.68	60.17	1.02	0.00	4.63	14.03	63.62
6	14.86	7.24	4716	8.07	17.33	45.64	0.00	8.73	11.77	55.51	0.58	0.00	5.63	19.31	51.65
7	19.64	6.67	4414	8.23	18.18	46.64	0.00	6.48	10.49	52.95	0.63	0.00	5.47	22.01	43.07
8	18.48	8.39	5552	8.02	22.75	58.57	0.00	5.70	12.84	69.27	1.09	0.00	5.56	28.30	55.05
9	20.31	8.08	4530	7.65	20.13	51.48	0.00	6.24	12.68	61.90	1.02	0.00	5.13	12.65	64.05
10	22.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	20.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	19.52	5.35	3338	7.49	11.06	28.53	0.00	7.12	12.58	34.71	0.61	0.00	4.66	12.12	38.25
1983	205.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : ES01 : UPPER SERUA PS YEAR : 1980 CODE : 11
 MEASUREMENT POINT CODE : 11 : PUMP STATION , BASIC DATA. PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION Q=QD+B*M
 Q - DISCHARGE IN M**3 PER SECOND
 QD = 17.740 - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 B = -1.944 - SLOPE OF CAPACITY CURVE
 M - SUCTION HEAD IN M
 QCAP = 11.208 - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 HAV = 3.360 - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 23 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	13.27	3.15	1852.	7.56	7.05	17.87	0.00	5.34	7.15	17.62	0.29	0.00	5.17	2.54	22.70
2	10.89	4.09	2423	7.52	8.94	23.10	0.00	5.22	9.89	24.58	0.39	0.00	5.34	4.88	29.87
3	21.10	1.01	681.	7.64	2.80	6.38	0.00	2.75	2.56	4.56	0.16	0.00	4.70	0.70	4.63
4	19.69	1.08	710.	7.43	3.44	7.60	0.00	2.69	2.29	5.42	0.16	0.00	4.35	0.98	5.24
5	20.42	0.84	510.	7.46	1.53	3.13	0.00	2.58	2.80	2.51	0.08	0.00	2.65	1.04	4.29
6	26.67	0.77	519.	7.11	1.80	3.83	0.00	3.50	1.10	2.73	0.17	0.00	3.53	0.75	3.23
7	28.16	0.90	601.	7.38	2.96	5.98	0.00	3.19	1.14	4.36	0.12	0.00	3.13	2.04	3.64
8	27.76	0.79	528.	7.53	1.91	4.12	0.00	2.66	1.98	2.91	0.14	0.00	3.82	0.65	3.23
9	26.03	0.87	581.	7.60	2.07	4.58	0.00	2.75	2.31	3.30	0.18	0.00	4.02	0.72	3.82
10	31.92	0.80	546.	7.65	1.29	2.88	0.00	2.77	2.43	2.08	0.60	0.00	4.00	0.60	3.29
11	18.48	1.67	733	7.77	2.59	5.91	0.00	3.72	2.26	4.49	0.28	0.00	4.22	2.23	4.29
12	18.32	0.95	648.	7.80	3.32	6.81	0.00	2.51	1.87	4.91	0.22	0.00	3.36	2.53	3.58
1980	262.71	1.15	735.	7.49	3.04	6.76	0.00	3.13	2.63	5.17	0.23	0.00	3.90	1.38	5.87

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	13.56	1.16	771.	7.11	3.93	8.65	0.00	2.62	2.44	6.26	0.22	0.00	4.23	1.52	5.78
2	12.71	1.06	686.	7.05	1.81	4.15	0.00	4.26	2.65	3.36	0.17	0.00	3.81	1.52	5.03
3	18.96	0.82	532	7.49	2.42	5.01	0.00	2.74	1.45	3.50	0.17	0.00	3.47	0.40	3.98
4	17.07	1.67	714.	7.57	3.90	8.32	0.00	2.78	1.73	5.85	0.17	0.00	4.02	1.61	4.90
5	20.38	1.20	745	7.29	3.95	8.53	0.00	3.11	1.85	6.22	0.21	0.00	3.95	0.34	7.10
6	24.94	0.89	597.	7.61	2.14	4.74	0.00	3.08	2.11	3.45	0.14	0.00	3.96	0.98	3.85
7	28.00	1.26	839	7.71	2.89	6.86	0.00	3.75	3.27	5.42	0.16	0.00	4.71	2.12	5.77
8	26.71	1.00	670	7.99	2.27	5.25	0.00	3.37	2.47	3.88	0.16	0.00	4.58	0.80	4.49
9	25.50	0.85	570.	7.69	2.28	5.02	0.00	2.39	2.29	3.50	0.16	0.00	4.21	0.36	3.76
10	23.22	0.84	559	7.73	1.88	4.08	0.00	2.30	2.85	3.01	0.15	0.00	3.63	1.27	3.40
11	21.83	1.08	722.	7.50	2.54	5.76	0.00	3.37	2.84	4.47	0.14	0.00	4.00	2.21	4.57
12	19.04	1.36	860	7.28	3.95	8.85	0.00	3.54	2.76	7.00	0.14	0.00	3.96	2.62	6.85
1981	253.92	1.04	685.	7.48	2.75	6.13	0.00	3.09	2.43	4.56	0.16	0.00	4.08	1.29	4.87

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	16.38	0.91	594.	7.26	2.12	4.63	0.00	3.34	1.96	3.45	0.12	0.00	3.67	0.83	4.38
2	8.51	3.95	2316.	7.60	7.78	21.41	0.00	7.35	8.48	21.88	0.32	0.00	7.57	0.71	29.75
3	19.13	0.86	542	7.49	1.76	3.77	0.00	3.28	1.89	2.83	0.19	0.00	3.34	0.43	4.42
4	17.35	0.92	581.	7.19	2.07	4.48	0.00	3.21	2.09	3.38	0.13	0.00	3.49	0.53	4.79
5	22.60	0.92	584.	7.45	2.67	5.61	0.00	2.60	2.02	4.06	0.13	0.00	3.49	0.66	4.66
6	24.81	0.86	579.	7.48	2.29	4.90	0.00	3.02	1.76	3.54	0.16	0.00	3.66	1.29	3.51
7	29.41	0.89	611	7.43	2.78	6.00	0.00	3.53	0.95	4.16	0.14	0.00	4.03	1.08	3.67
8	29.41	0.93	689.	7.50	3.94	8.48	0.63	2.25	1.73	5.56	0.08	0.00	4.61	2.30	2.71
9	26.27	0.99	748	7.47	3.38	7.58	0.00	1.97	3.11	5.38	0.11	0.00	4.58	4.07	1.93
10	25.02	0.88	616.	7.20	2.69	5.64	0.00	2.22	2.57	4.16	0.03	0.00	3.39	2.86	2.80
11	22.19	0.83	553	7.59	2.58	5.31	0.00	2.22	2.19	3.84	0.02	0.00	3.26	1.27	3.75
12	18.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	259.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 12 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	18.09	0.66	448.	7.51	1.80	3.62	0.00	2.22	1.66	2.51	0.08	0.00	3.13	1.10	2.23
2	20.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	16.87	0.38	596.	7.48	2.89	6.00	0.00	2.69	1.64	4.26	0.10	0.00	3.50	1.79	3.40
4	18.57	0.85	558	7.51	2.55	5.26	0.00	2.48	1.95	3.80	0.08	0.00	3.27	1.29	3.74
5	24.88	0.98	662.	7.78	3.73	7.71	0.00	2.50	1.69	5.40	0.10	0.00	3.63	2.14	3.92
6	31.11	0.80	553.	7.83	3.17	6.36	0.00	2.17	1.44	4.26	0.08	0.00	3.52	1.53	2.89
7	37.07	0.81	569.	7.76	2.82	5.92	0.00	2.33	1.71	4.00	0.09	0.00	3.91	1.47	2.74
8	30.12	1.02	707.	7.90	3.51	7.74	0.00	2.25	2.48	5.40	0.13	0.00	4.44	2.01	3.81
9	28.04	0.87	605	7.93	3.00	6.07	0.00	1.92	2.40	4.41	0.09	0.05	3.11	3.19	2.48
10	20.46	0.91	595.	8.09	2.31	5.06	0.00	2.48	2.64	3.70	0.10	0.16	3.68	1.12	3.99
11	15.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	21.16	0.75	496.	7.97	1.66	3.30	0.00	2.62	1.80	2.47	0.42	0.01	2.70	1.58	3.03
1983	282.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATION : ES02 : LOWER SERUA PS YEAR : 1980 CODE : 11
 MEASUREMENT POINT CODE 11 / PUMP STATION / BASIC DATA: PUMPING HOURS AND LIFTING HEAD

DISCHARGE RELATION: $Q = Q_0 + B \cdot H$
 $Q_0 = 11.163$ - DISCHARGE IN M**3 PER SECOND AT ZERO SUCTION HEAD
 $B = -1.188$ - SLOPE OF CAPACITY CURVE
 H - SUCTION HEAD IN M
 $Q_{CAP} = 8.243$ - AVERAGE PUMP CAPACITY IN M**3 PER SECOND
 $H_{AV} = 2.460$ - AVERAGE LIFTING HEAD IN M

THE WATER QUALITY DATA DURING 1980 ARE BASED ON 24 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	33.19	2.98	1850.	7.45	6.48	16.20	0.00	5.42	7.63	16.56	0.32	0.00	4.58	6.26	19.07
2	23.86	3.04	1981.	7.43	6.76	16.67	0.00	6.09	7.60	17.69	0.24	0.00	4.14	9.96	17.50
3	41.57	1.69	1086	8.14	3.34	8.35	0.00	2.82	6.65	7.27	0.23	0.00	5.17	3.07	8.73
4	46.68	1.33	854	7.45	4.03	8.97	0.00	2.88	3.03	6.92	0.20	0.00	4.02	2.25	6.77
5	36.79	1.80	1175	7.35	4.68	10.83	0.00	4.38	4.09	9.63	0.14	0.00	3.85	5.28	9.11
6	65.08	1.60	1047	7.40	3.43	8.33	0.00	4.76	3.98	7.16	0.20	0.00	4.68	3.24	8.17
7	72.31	1.54	998	7.43	4.22	9.99	0.00	2.87	4.25	7.96	0.24	0.00	4.81	2.46	8.04
8	70.07	1.53	978	7.24	4.61	10.90	0.00	3.18	3.26	8.27	0.20	0.00	5.27	1.13	8.51
9	71.90	1.32	813	7.33	3.79	8.61	0.00	3.14	2.70	6.48	0.21	0.00	4.42	0.26	7.86
10	52.70	1.47	974	7.58	2.81	7.25	0.00	4.01	4.65	5.85	0.19	0.00	6.55	0.59	7.55
11	49.30	1.92	1306	7.50	4.93	12.61	0.00	3.88	4.90	10.32	0.54	0.00	6.67	3.52	9.45
12	42.97	1.90	1311.	7.34	5.20	12.12	0.00	3.84	5.06	10.97	0.21	0.00	3.91	8.03	8.13
1980	606.43	1.72	1115.	7.42	4.34	10.49	0.00	3.74	4.44	8.78	0.24	0.00	4.91	3.15	9.16

THE WATER QUALITY DATA DURING 1981 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	36.64	1.72	1167.	7.08	4.86	11.80	0.00	2.57	5.28	9.63	0.24	0.00	5.24	4.69	7.79
2	27.12	1.88	1155.	7.11	6.16	14.23	0.00	3.01	3.60	11.20	0.27	0.00	4.75	1.69	11.63
3	46.93	1.63	957.	7.34	5.45	11.74	0.00	2.70	3.09	9.26	0.21	0.00	3.65	0.79	10.82
4	49.56	1.47	936	7.50	4.82	10.62	0.00	2.74	3.16	8.28	0.21	0.00	3.92	2.72	7.75
5	52.25	1.37	895	7.30	4.61	10.17	0.00	2.24	3.40	7.73	0.21	0.00	4.08	2.96	6.55
6	64.69	1.44	919.	7.86	3.89	9.02	0.00	2.01	4.84	7.20	0.17	0.00	4.42	2.41	7.40
7	68.63	1.48	892	8.37	2.16	5.27	0.00	4.43	4.92	4.67	0.21	0.00	4.39	0.80	9.06
8	65.49	1.45	902.	8.12	3.58	8.45	0.00	3.84	3.17	6.70	0.20	0.00	4.69	0.73	8.56
9	64.64	1.31	831	7.64	4.04	9.23	0.00	2.35	3.33	6.81	0.20	0.00	4.71	0.74	7.24
10	58.96	1.38	868	7.44	3.89	8.60	0.00	2.43	3.91	6.94	0.22	0.00	3.64	2.60	7.26
11	52.63	1.35	834	7.45	3.79	8.23	0.00	3.04	3.12	6.66	0.18	0.00	3.41	2.16	7.43
12	46.59	1.55	986	7.64	4.85	10.73	0.00	2.66	3.80	8.73	0.13	0.00	3.73	3.46	8.13
1981	634.13	1.47	925	7.51	4.09	9.35	0.00	2.87	3.81	7.47	0.20	0.00	4.20	2.02	8.14

THE WATER QUALITY DATA DURING 1982 ARE BASED ON 17 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	38.01	2.48	1444.	7.25	6.00	14.30	0.00	3.90	6.17	13.47	0.16	0.00	4.12	2.40	17.18
2	16.46	2.35	3149.	7.27	9.29	25.90	0.00	8.23	13.50	30.63	0.39	0.00	6.95	4.24	41.57
3	43.53	1.61	976	7.29	4.04	9.20	0.00	4.04	3.46	7.83	0.13	0.00	3.76	1.89	9.81
4	46.77	1.47	936	7.16	4.22	9.52	0.00	3.04	3.56	7.66	0.20	0.00	3.98	2.63	7.86
5	51.71	1.54	1045	7.36	4.22	9.89	0.00	4.51	2.88	8.12	0.22	0.00	4.44	4.29	7.00
6	68.06	1.54	1031.	7.71	5.05	11.51	0.00	4.38	1.86	8.92	0.25	0.00	4.48	3.54	7.40
7	75.04	1.58	1074	7.41	5.75	13.53	0.00	3.52	2.38	9.88	0.15	0.00	5.67	2.62	7.64
8	76.49	1.73	1188	7.52	6.94	16.32	0.23	2.70	3.05	11.76	0.10	0.00	5.98	3.68	7.94
9	71.76	1.70	1140.	7.57	7.32	16.03	0.00	2.65	2.57	11.82	0.10	0.00	4.50	4.57	8.09
10	58.01	1.39	922	7.96	5.50	11.89	0.00	2.87	2.17	8.73	0.04	0.00	4.12	2.91	6.91
11	49.33	1.45	933	7.81	5.33	11.17	0.00	2.79	2.68	8.82	0.04	0.00	3.32	3.79	7.23
12	41.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	636.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THE WATER QUALITY DATA DURING 1983 ARE BASED ON 11 WATER SAMPLES

MONTH	DISCH MIL M3	EC	TDS	PH	SAR	ADJ SAR	RSC	CA	MG	NA	K	CO3	HCO3	SO4	CL
1	38.92	1.15	709.	8.14	3.74	7.69	0.00	2.47	2.47	5.87	0.14	0.00	3.15	1.60	6.19
2	17.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	39.31	1.55	973	7.61	4.76	10.21	0.00	3.20	3.28	8.58	0.15	0.00	3.22	3.54	8.44
4	45.60	1.61	1014.	7.70	3.97	8.88	0.00	3.65	4.29	7.91	0.14	0.00	3.32	4.04	8.63
5	58.21	1.39	917.	7.83	4.36	9.49	0.00	3.04	3.11	7.65	0.14	0.00	3.53	4.18	6.24
6	60.35	1.68	1141.	8.14	6.30	14.19	0.00	2.79	3.31	10.99	0.13	0.00	4.46	5.10	7.64
7	75.03	1.71	1187.	8.28	6.77	15.19	0.00	2.80	3.12	11.66	0.15	0.00	4.50	5.99	7.24
8	64.95	1.89	1289.	8.33	8.03	17.93	0.00	1.78	3.96	13.60	0.14	0.25	4.42	6.87	7.92
9	66.83	1.70	1152	7.92	6.58	14.27	0.00	2.19	3.75	11.34	0.14	0.01	3.79	6.54	7.10
10	49.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	45.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	44.52	1.62	997.	7.27	3.48	8.24	0.00	3.39	5.06	7.15	0.20	0.00	4.17	2.33	9.30
1983	603.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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والكهرباء بوزارة الري لتصرفات محطات الصرف ثم يجرى تصحيح لهذه القياسات بناءً على قياس كفاءة تلك المحطات بصفة دورية - وهذا هو أحد أوجه نشاط المشروع إعادة استخدام مياه الصرف . ذلك بالنسبة للمصارف التي يتم رفع مياهها بواسطة محطات الطلمبات .

أما المصارف التي يتم صرف مياهها بالراحة فإنه يجرى قياس تصرفاتها بالطرق المناسبة التي تخضع لاعتبارات أخرى .

أما دراسة نوعية مياه الصرف فإنه يتم تجميع عينات المياه من مناطق القياس المختلفة - بصفة دورية - ويجرى تحليلها كيميائياً وتحليل نتائجها وفقاً للمواصفات القياسية لنوعية المياه .

والغرض الأساسي في هذا التقرير السنوي هو عرض لهذه البيانات الأساسية والمتاحة لدى معهد بحوث الصرف لاستخدامها ضمن المشروعات المختلفة - هذا إلى جانب عرض مبسط عن وسائل القياس وطرق الحساب المستخدمة لإخراج هذه البيانات في صورتها المذكورة ضمن هذا التقرير - كذلك فإنه جدير بالذكر أن ما يتعلق بنوعية مياه الصرف ومدى ملائمتها للاستخدام في الري فقط تستخدم الأسس والمعايير والتي من خلالها يمكن توصيف وتمييز هذه المياه حسب الأغراض المختلفة (كاستخدامها مباشرة في أغراض الري أو بعد خلطها مع نوعية مياه أخرى .. الخ) .

وفي حالة عدم كتابة البيانات المذكورة ضمن هذا التقرير فإنه ينصح باستشارة بتلك المعلومات بمعهد بحوث الصرف حيث تتوافر كافة نتائج التحليل الكيميائي للعينات الممثلة لكل موقع .

ملخص :

ان الزيارة المتطردة فى اعداد السكان لابد من محابيتها
بانتاج المزيد من الحبوب والالياف - من جهة - واستصلاح اراضى
جديده بدلا من تلك التى استنزفت فى عمليات البناء والتشييد
من جهة أخرى .

ولقد كانت استراتيجية اعادة استخدام مياة الصرف - أمرا
واردا - ضمن الاستراتيجيات المقترحة لايجاد مصادر مياة
رى اضافية للاراضى التى سيتم استصلاحها . وفى هذا المجال
يجدر بنا ان نذكر ان الخطة الخمسية ١٩٨٢ - ١٩٨٧ تتضمن
استصلاح (٦٤٠ ٠٠٠) فدان والبدأ الفعلى فى التنفيذ .

ويهدف مشروع اعادة استخدام مياة الصرف الى ايجاد
البيانات الاساسية على درجة عالية من الدقة والواقع - والتى
يمكن استخدامها فى تلك الخطة السالفة الذكر - لذلك فقد
تم اختيار شبكة قياس متكاملة والتى من خلالها يمكن الحصول
على تلك البيانات الممثلة لكل زمام من مناطق الصرف .

ان البيانات اللازمة لخطط استصلاح الاراضى متمثلة فى
كل من كميات المياة المتاحة ونوعية تلك المياة ومدى دلاحيها
ومناسبتها لعمليات الاستصلاح والرى . لذلك فان كميات
مياة الصرف يتم الحصول عليها اولا من خلال قياسات مصلحة الميكانيكا

- ٧ - المهندس / مجدى عبد النبى
- ٨ - المهندس / نبيل قنديل
- ٩ - المهندس / محمد سعد عباس
- ١٠ - المهندسة / ميرفت محمد مصطفى الجندى
- ١١ - المهندسة / اميمة سعد شاهين
- ١٢ - المهندسة / سميرة محمد عباس

يهدف هذا التقرير الى القاء الضوء والملاحظات على
البيانات المتاحة حتى يمكن الاستعانة بها في وضع خطط
وبرامج اعادة استخدام مياة الصرف في دلتا نهر النيل
، كما يهدف ايضا الى ابراز النواحي الغنية الممكنة
في ايجاد تلك الوسائل .

الفريق البحثى للمشروع :

مدير المشروع : د م / محمد محمود جاسم

د. / ب. ا. ۰ ریتیمیا

رئيس الشعبة : د / سامية محمود سعد الدين الجندي

الخبراء الهولنديين العقيمين :

مستتر / دیتمر بولس

مستتر / مارین ماسکنسکت

مستمر / هاندريك بانتـي زدورب

الفريق المصري للمشروع :

- ١ - المهندس / نادية عبد الحميد منصور البهنساوى
- ٢ - المهندس / محمد احمد عبد الخالق
- ٣ - المهندس / احمد محمد مرسى
- ٤ - المهندس / عادل عبد الرشيد
- ٥ - المهندس / محمد عزت شاهي
- ٦ - المهندس / ابراهيم لاشي

مشروع اعاده استخدام مياه الصرف نشاط مشترك بين : -
معهد بحوث الصرف - الجيزه - جمهوريه مصر العربيه
ومعهد بحوث اداره الاراضى والمياه - فاجنجن - هولندا

وتعتبر الجهة المموله للمشروع وزاره الري بجمهوريه مصر العربيه
ووزاره العلاقات الخارجيه بهولندا فى إطار البرنامج المشترك للتعاون الفنى
بين مصر وهولندا .

ويعمل المجلس الاستشارى المصرى الهولندى كهيئة مشرفة .

نتائج الدراسات التى تمت خلال هذا المشروع ستعرض اما فى تقارير مبدئيه
او تقارير نهائيه . حيث ان محتويات التقارير المبدئيه ممكن تختلف بشدة
من تقديم مبسط للبيانات او مناقشات لنتائج وخلصات بحثيه .

الاراء والتوصيات الموجوده فى التقارير السابقه تعتبر اراء المؤلف فقط
وليس لها علاقه بالمعاهد او الوزارات المعنية .

مشروع إعادة استخدام مياه الصرف
تقرير رقم ٤

الكتاب السنوى
شرق الدلتا ١٩٨٠-١٩٨٣
التصرفات والتحاليل الكيماوية لمياه الصرف

الفريق البحثى

١٩٨٥

معهد بحوث الصرف مركز البحوث المائية ج.م.ع.
معهد بحوث ادارة الاراضى والمياه
واخنجن، هولندا

بسم الله الرحمن الرحيم
"وجعلنا من الماء كل شى حى"
صدق الله العظيم