

and the same of th		1 -00 04 (0)	-00 00 00	-000000
ACCOUNT THE REAL PROPERTY.	10 2001	1000	Sumo-	0.000
MONTH TOTAL	10.2000	(magney	Seriosco.	10.0000
MONTH TOTAL	10:2001	10,000	5/000	G 0000
MONTH DISTRICT	10.0001	20.000	0.000	10,000
STATE TO STATE	10.0000	21/21/21	2000	-0.006
ALC: UNKNOWN	10.000	0.000	21000	-C-806
CO. C. C. C. C.	10.2900	31000	0.000	<0.00K
SECTION OF THE REAL PROPERTY.	10.200	91000	20000	-C-9000
CARL COLORS	(In Owner,	Section 1	0.000	C-9000
SUPERIOR SECTION	10 Miles	2000	2000	S 2000
CONTRACTOR CO.	No. Oreston	SHOWEN .	-0.0000	15.0000
COLUMN TO SOME	10/2001	11000	-0.000	10,0000
CONTRACTOR OF THE PARTY.	at Name	1.0000	1.7706	2.300
95 ST 10 40 GT	23.4600	21400	2-400	3.306
oner green				
	25.800	2.000	2.400	2.400
	20.4600	2-400	2-400	3.406
	20.45000	2.300	2 1000	4 2000
CALL CONTRACT	and the second	27 1000	0.100	2.900
CARL COLORS	250000	21000	1 9000	1.500
A COMPANY	10-A0000	1.380	1.2500	+ 2636
DIRECT TEMPOR	71.2000	1.780	1.106	1.000
DESCRIPTION OF THE RESERVE AND ADDRESS OF THE RE	11000	1.000	7 1036	1.0000
mer or men	12 (000)	1.000	1.200	1.200
DRAFT -BURNON	100000	1.300	1.306	7.800
GROOT TRANSPORT	71900	1.7000	1.306	1.300
PRINT YOURSE	1000			
THE PERSON	1400	1.500	1 HOK	1.500
		1 100	4 1000	1.500
1000	10.400	1.300	1.200	1.2000
1000	1.390	9.3000	+ 200	1.5600
property of the second	1.000	1 1000	1.500	1.5600
DESCRIPTION OF THE PERSON	1.000	1 SOC	* 9OF	1.500
0100 12300	1.168D	1.000	-1.900	71.06001
DHOR #8 90 00	1.5000	1.400	1.4600	1.500
DRIES SAGON	1.300	1.200	1.200	-1.2020
CHIEF TATE	1.300	1.206	1.500	0.200
0101 143630	2/1000	< 206		
THE 141230	2000		19.000	\$1000
10101 N/1830			10.09011	11 (200)
	0.0000	45.0000	(0.200)	
THOP 14 20 90	0.000	15.3000	50.000	10000
14 Se 30	0.000	10.3000	0.000	21000
C 2007 144 278 300	2.000	10.3600	(I) (200)	2000
107 N.SE 30	-0.000	10.0400	01000	2000
1407 143636	10,000	15.2600	20.200	21000
167 1440 20	15.000	10.0000	Transferre	21000
167 DEBESS	15.500	10.2001	Section 1	24000
DEC 2048206	15.0000	0.260	24/2002	9196
NET MISSION	0.300	10.000		
NAT HISTORY	10.000			2000
RAF TROOPS		20.00	214200	-2000
	G 2600	540(3)	1	-0.006
	III 2400	0.000	Service Co.	0.006
ALC: THE REAL PROPERTY.	10.000	21/21/8	2000	C-3006
APR 8-50	III (2002)	31000	-0.000	0.000
THE RESERVE	10.000	20000	-0.000	10,000
THE PERSON NAMED IN	10-0400	21/200	-0.000	0.000
THE PART WATER	11/04/01	31000	0.000	15.300
and the same	in-order	limbe.		
WALL OF STREET	0.000		-0.000	10.3000
TOTAL		31000	C.000	15.3001
	\$10000	0.4000	< 306	10.0000
not 16-4000	2000	0.000	2-030	15 BOX
TO 10 10 10	0.000	10.000	01000	15.9600
THE RESERVE	10.000	15.79(3)		

#### Company Name STR 6 Realism (Factoring and Lat.

Selection 1 stage St. Stillers. Son. Dispose						
Share State Start Tome: Depoi Sont Tome: Sarry Time officease Sarry Time offices:		96.29-00 10.29-00 46.79-00 90.5-100	20000			
Singe		-00 (m (m)	100000	-		
Section   Sect				1000   1000		

Control of State of S

31/30/53 31/0/107

#### Graph Statistics

Directory Name (EVA in Maskum (Factor/ages) List Director Country Department Faculty

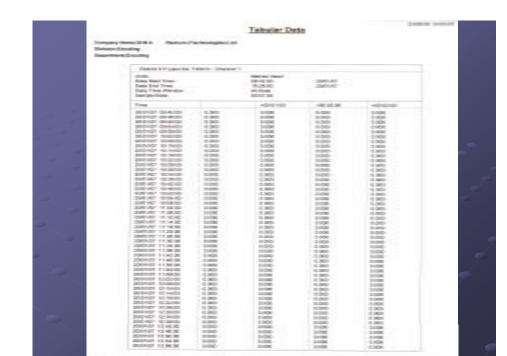
### Analyses of data for pressure (q1)

- ✓ The reading (2.4 m) at a time (12:40 p.m) is considered as a normal reading.
- ✓ the reading (1 m) at a time (13:12 p.m) is unnormal because of many reasons like as:-
- 1) There is a problem in the project (W.T.P.).
- 2) This time may be considered the peak consumption used.
- 3) National electricity provided for the district 511, so all customers operate the water pumps.

## Measurement of pressure in (q2)

- ❖Data logger used in apposition ( q2 ) to measure of pressure to pipe dia.300mm iron.
- The data and graph shows the measurement of pressure.







## Measurement of flow in (q2)

- ❖Ultra sonic FLO used in apposition (q2) to measure of flow to pipe dia.150mm ductile.
- The data and graph shows the measurement of flow.













```
Start Time:03/02/2007--15:27:27
Stop Time:03/02/2007--15:27:27
Sitename:Site DIS511
Ppe Materia: Outtile Iron
Wall Thickness:6.30 mm
Fipe Liner:None
Liner Thickness:0.00 mm
Fluid:Water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sitename: Site DISS11 - 19:27:30

Sitename: Site DISS11 - 19:27:30

Pipe Material: Ductile Iron

Pipe O.D.: 170.00 mm

Wall Thickness: 6.30 mm

Fipe Liner: None

Fipe Liner: None

Fipe Liner: None

Filid: Water

Averaging: 5

Liter value = 54.3481 m3/hr Max - 54.3481 m3/hr |

Sound Speed [ Min - 1423.2 m/s Max = 1423.2 m/s |

Signal Strength [ Min - 37. 9 Max = 37. 9 ], Quality [ Min - 19.0 Max = 19.0 ],

Pittude [ Up - 0.0057 Down = 0.0056 ]

Errors [ 0 ], ErrorCode [ 0000 ]

Bate Month Year | Min Sec Flow(m3/hr)

O2 07 15 27 50 54.3481
Fluid:Water Averaging:5 Averag
```

```
File:Site DIS511-03/02-15:31:07

Start Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

Stop Time:03/02/2007--15:31:07

File:Signal Stop Time:04:04

File:Signal Stop Ti
```

File:Site DIS511-03/02-15:31:07

```
File:Site DIS511-03/02-15:31:09
  Start Time:03/02/2007--15:31:09
Stop Time:03/02/2007--15:31:09
Sittename:Site DISS11
Sittename:Site DISS11
Figure 
Averaging:5
Intervalid = 52.3432 m3/hr Max = 52.3432 m3/hr ]
Sound Speed [ Min = 1423.4 m/s Max = 1423.4 m/s ]
Sound Speed [ Min = 1423.2 m3/hr Max = 30.2 ], Ouality [ Min = 15.0 Max = 15.0 ], Am
plitude [ Up = 0.0057 Down = 0.0056 ]
Date [ Up = 0.0057 Down = 0.0056 ]
Date Month Year Hour Min Sec Flow(m3/hr)
03 02 07 15 31 09 52.3432
```

Because the main project( Sharq Dijla WTP ) is far from al Sader City, the project

(Sharq Dijla WTP) capacity = 765,000 m3¥day

Al Sader City depends on an compact unit its range between (50 – 200) m3¥hr.

which does not cover the daily consumption of a single person acknowledging that al Sader City has a big population.

compact unit complain from many problem and needs a permanent maintenance.

# Calculating the input water to district 511 estimation.

- Number of population in district (511)= 8355
  - \* The daily consumption of a single person

130 liter¥person¥day = 1,086,150 liter¥day = 45.25625 m3¥hr.

- Leakages and illegal rate = 50 %
- The total input water in district (511)
  - = 45.25625 ¥ 50% = 90.5125 m3¥hr

#### In the future :-

- ✓ Make a chamber and measure the flow and pressure in 24 hours.
- ✓NRW team will be making four chambers on feeding pipe to district 511.
- ✓ Measurement a flow and pressure in 24 hours to get a minimum night flow

- ✓ District 511 divide three blocks.
- ✓ If possible know each house the water quantity consumed.
- ✓ If possible discover the leak by the instrument.

Thank you for your kind attention