

ENERGY AUDITING, MANAGEMENT & EFFICIENCY AT CWA PUMPING STATIONS

Final Report - Phase II Comparison of Design Data and Installed Equipment

October 2006

MAURITIUS RESEARCH COUNCIL

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Project on

ENERGY AUDITING, MANAGEMENT AND EFFICIENCY

AT

CWA PUMPING STATIONS

Phase II: Comparison of Design Data and Installed Equipment

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Table of Contents

Abstract Abstract						
Chapter One Introduction	1					
Statement of Objectives	1					
Methodologies Employed	2					
Calculation of Hydraulic Characteristics of distribution lines	4					
Variation of System Curves	7					
Actual Pumping Techniques	9					
Operation with Variable Speed Drives	10					
Chapter Two Analysis	13					
Electrical Cost Analysis	13					
Analysis on System Characteristics						
DWS Port Louis	15					
DWS – North	24					
DWS – East	58					
DWS – South	66					
MAV – Upper	75					
MAV – Lower	82					
Chapter Three Summary of Results	121 121					
Pump replacement with no energy savings						
Pump replacement of oversized pumps						
Variable Speed Drives						
Cost Benefit of VSD V/S Auto – Transformer	127					
Chapter Four Recommendation	130					
Purchase of Submersible Pumps	130					
Purchase of Variable Speed Drive	132					
Investment Plan	133					
Appendix 1: Roughness Size of Pipes						
Appendix 2: Water Production (m ³)						
Appendix 3: Active Energy Billing (Rs)						
Appendix 4: Maximum Demand Charges (Rs)						
Appendix 5: Excess kVA charges (Rs)						
Appendix 6: Production Charges (Rs/m ³)						
Appendix 7: Monitoring Sheet for Barkly BH 664						
Appendix 8: Monitoring Sheet for Holyrood 35 E						

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M.A.H Domah

Abstract

This project on 'Energy Auditing, Management and Efficiency at CWA Pumping Stations' has been put forward in order to identify energy conservation opportunities aiming to have an optimized pumping system. It is divided into four distinct phases. **Phase 1** which has already been completed, included the gathering of data for computing the production cost at borehole pumping stations and estimating the energy wastage from a desktop study. As per the study of phase 1 of this project, the average production cost based on years 2001, 2002 and 2003. shows the production cost at approximately Rs 0.65 / m³ of water. The average production cost for southern pumping stations was Rs 0.55 / m³ compared to Rs 0.78 / m³ for northern pumping stations. 84% of all borehole-pumping stations have a production cost ranging between Rs 0.25 and Rs 1.25 per m³.

The energy wastage as quantified under phase 1 of the project amounts to Rs 3.6 million / year approximately, representing about 6% of the average annual electricity charges for borehole pumping stations of around Rs 60 million.

The following objectives have been set under Phase II of the project:-

- Review pump hydraulic characteristics and electrical ratings in relation to operational requirements
- Propose an energy management strategy to improve efficiency of pumping equipment
- Design an optimal and highly efficient pumping system
- Optimization of energy costs.

The projected amount of savings based on the calculation of the hydraulic capacity of pumps as highlighted in Phase 1 was expected to be around 10%. However, based on the findings under this report (Phase II), the energy savings that has been quantified is **Rs 6,566,266.86** which is equivalent to **5.71** % of the annual electricity budget (2006-07)

1.0 Introduction.

The Central Water Authority (CWA) is the sole supplier of potable water in Mauritius. It operates 129 pumping stations and six treatment plants across the island. The Authority has more than 300,000 registered domestic and industrial customers. The annual total volume of water produced, i.e. pumped and treated is around 300 Million m³ and the annual turnover based on water sales is **Rs 955 Million**. The annual electricity cost for the financial year 2005/06 is around **Rs 115 Million**.

Further to the study made by Research Assistants Messrs G.R Pudaruth & D. Gungabison for Phase 1 – Site Auditing under this project – "Energy Auditing, Management & Efficiency at CWA Pumping Stations", it was recommended to carry out a pumping test of each borehole in order to re assess the hydraulic pump capacity and to reduce accordingly the annual energy wastage of **Rs 3.6 Million** due to oversized Submersible Pumps, inappropriate C.E.B Tariffs, Penalty Charges and Excess kVA demand.

Under Phase II of this project, I Mohammad A H Domah, Trainee Engineer (Mechatronics) have been given the responsibility of Research Assistant to carry out the overall and specific objectives of the project as set out by the Mauritius Research Council and Central Water Authority.

1.1 Overall Objectives:-

The overall objectives of this project under Phase II are as follows:

- Review pump hydraulic characteristics and electrical ratings in relation to operational requirements
- Propose an energy management strategy to improve efficiency of pumping equipment
- Design an optimal and highly efficient pumping system
- Optimize energy costs.

1.2 Specific Objectives:-

- Study the economics of pump replacement
- Determine the optimum yield of each borehole

 Calculate the hydraulic duty point for pumps on each site with respect to borehole and distribution network characteristics.

1.3 Methodologies adopted:-

The methodologies adopted are detailed hereunder:

- Perform pumping tests and calculating the efficiency of the pump at its operational point for each borehole.
- Calculate the hydraulic characteristics of the distribution lines.
- Collect information regarding all operational boreholes characteristics with emphasis on safe pumping yield and actual pumping rates for both the normal and dry season.
- Review of electrical costs of the different pumps in use at CWA.
- Calculation of payback period for the equipment to be installed at each site.
- Researching on new techniques employed for pumping of potable water.

1.4 Methodology for Pumping Tests

- **1.4.1** The pump was made to operate at different flows by valve throttling the discharge valve and the following parameters were measured:
 - Actual Flow (Q) m³/hr
 - Discharge Head of Pump at bend (H_d) in metres (m)
 - Dynamic Water Level measured up to bend i.e. Static Head (H_s) of Pump in metres (m)
 - Electrical Input Power to pump motor (P_m) in kilowatts (kW)

1.4.2 Instrumentation used for pumping test:-

- The actual flow rate was measured using the existing flow meter reading and a stopwatch.
- The pressure head at the bend was measured by a pressure gauge in Bar and the reading was then converted to meter (m) by the ratio 1 bar = 10 m
- The Dynamic Water Level (m) was measured using a sounding line.
- The electrical power input (kW) to the motor was measured using an energy meter.

1.4.3 Based on the above mentioned measurements, the following calculations are done to determine the Pump Efficiency:

Energy conversion in operation of submersible pump



a) Hydraulic Output Power of the pump

Hydraulic Power,
$$P_h$$
 (kW) =
$$\frac{Q.(h_d - h_s).\ell.g}{1000}$$

where Q = Volume flow rate in m³/s

 $h_d = Discharge head (m)$

 $h_s = Suction Head (m)$

 ℓ = Density of Water (kg/m³)

 $g = acceleration due to gravity - 9.8 m/s^2$

b) Pump Shaft Power, Ps

Pump Shaft Power,
$$P_s = \frac{HydraulicPower, P_h}{PumpEfficiency, \eta_{pump}} kW$$

c) Electrical Input Power

Electrical Input Power,
$$P_m = \frac{PumpShaftPower, P_s}{ElectricMotorEfficiency, \eta_m}$$

Also, the motor input P_m can be measured by using a portable power analyzer.

d) Pump Efficiency

The Pump Efficiency is calculated by the formula:

$$\eta_{Pump} = \frac{HydraulicPower, P_h}{PumpShaftPower, P_s}$$

1.5 Calculation of hydraulic characteristic of distribution system:

The hydraulic characteristic of the distribution system has been done by using the 'L' profile of the distribution line obtained from the CWA's drawing office. The following information are gathered from the drawings as detailed below:

- No. of fittings installed (Bends, Sluice Valve, Air Valve, Reducer/Enlarger, Non-Return Valve) in the distribution line.
- Length and type of pipe in the distribution.
- Ground Level at Source, SGL
- Ground Level at destination, DGL

From the above information, the following calculations are done:

a) Static Head

The Static Head is the vertical distance between the liquid surfaces in the maximum height that the water will reach and it is given by the following formula:

$$SHR = DGL - SGL + DWL$$

Where:

SHR = Static Head Difference (m)

DGL = Ground level at destination (m)

SGL = Ground level at source (m)

DWL = Dynamic Water Level (m)

b) Pressure Head

The pressure head required at some point of the distribution line. If the end point is a reservoir or a balancing tank, then the pressure head would be 0 m.

c) Frictional Head Losses

There are two types of frictional head losses, viz

- Head loss due to friction in pipes
- Head loss due to friction in fittings

d) Frictional Head loss in pipes

The frictional head loss in pipes is calculated by using the Haaland and the Darcy Weisbach formulae.

Haaland Formula:

$$\frac{1}{\sqrt{f}} = -3.6 \log \left(\frac{6.9}{R_e} + \left\{ \frac{K_S}{3.71D} \right\}^{1.11} \right)$$

where:

f = Friction factor of pipe

d = internal diameter of pipe

 k_s = Roughness size on the internal surface of the pipes. The values of the roughness for different materials is given at *Annex-1*

R_e = Reynolds Number

Reynolds Number is determined by the following equation:

$$R_e = \frac{vd}{\gamma}$$

Where:

v = average velocity of the fluid in the pipe

d = pipe inside diameter

 $\gamma = \text{kinematic viscosity of liquid (for water } \gamma = 1.14 \text{ x } 10^{-6} \text{ m}^2/\text{s})$

The Haaland formula is used rather than the Colebrook equation, as the latter involves the friction factor on both sides and as per "*Mechanics of Fluids by B.S Massey*", the friction factor calculated by Haaland will be less than 1.5% than that by Colebrook's formula. This is considered to be acceptable.

Once the value for the friction factor is obtained, the Darcy - Weisbach equation is then used to calculate the friction head loss.

Darcy - Weisbach Equation:

$$H_f = f \frac{L}{d} \frac{v^2}{2g}$$

Where:

H_f= Head loss due to friction in distribution pipe

f = Friction factor of pipe

L = Length of distribution pipe

d = internal diameter of distribution pipe

v = average velocity of fluid in pipe

g = acceleration due to gravity

e) Head loss due to friction in fittings

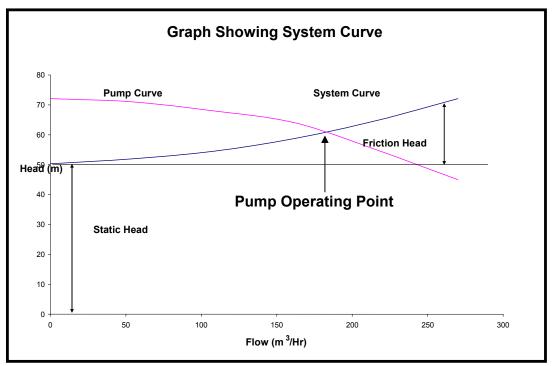
The head loss due to friction in fittings is calculated by using an equivalent length of straight pipe. These values are given hereunder:

Type of Fitting	Equivalent Length of Straight Pipe (m)					
Pump	150					
Bend 90	18					
Sluice Valve	7					
Non return Valve	45					
Air Valve	11					
Tee	11					
Reducer	45					
Round Elbow	45					

Using the above mentioned values, the equivalent lengths are then used in the calculation of the head loss in the fittings.

1.6 System Curve

From the calculation of the different heads as described at section 1.5, the system curve is then drawn and by superimposing the pump curve on it, the operating point of the pump is obtained. At this point, the flow should be the safe yield of the borehole so that it is not depleted and the Dynamic Water Level of the borehole remains stable during operation of the pump.



The above mentioned graph shows the system curve for a pump pumping into a reservoir or a balancing tank.

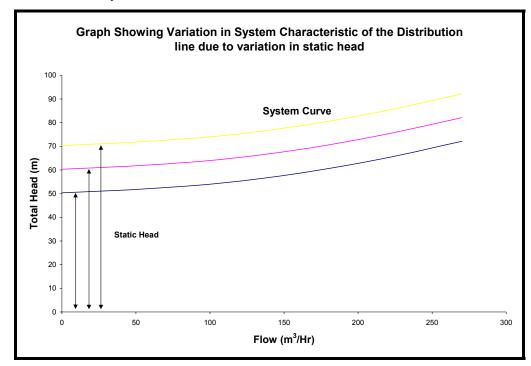
1.7 Variation of system curve

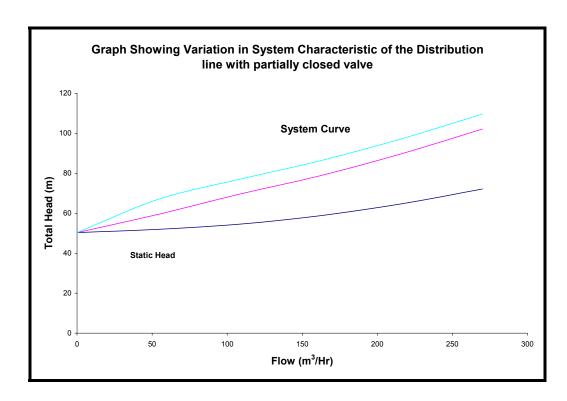
The system curve calculated is expected to remain the same at all periods, but however this is not the case. The system curve varies in two different ways:

- Variation due to changes in static head
- Variation due to new restriction being added up on the distribution line

Variation in static head occurs across the year due to changes in the Dynamic Water level of the borehole. In rainy seasons, the water level is high, but during dry seasons, there is a drastic drop in this water level. Whereas 'variation due to new restriction being added up' occurs when the demand on the distribution line decreases at night.

The variation of the system curve is shown below:





1.8 Actual pumping Techniques.

The pumping of liquids consumes enormous quantities of energy, and deserves some thoughtful consideration by those who manage the profits/production costs when desiring to save more through energy management.

The electric motor of a submersible pump is a '2' Pole motor and the startup current when starting the motor is seven times the nominal/operation current of the motor. To avoid this over current at startup, there are several techniques used so that associated equipment in the operation of the pump are not oversized and also to avoid excess charges for the electrical power consumption. The most common operation techniques of submersible pumps in the authority are as follows:

- Direct On Line, DOL (up to 10kW)
- Star- Delta
- Auto transformer Starter

In using an Auto transformer Starter, the starting current is limited to 2.5 times the nominal/operation current.

Other techniques for the startup and operation of submersible pumps include the use of **Soft-Starters or Variable Speed Drives, VSD**.

1.9 Sizing of Submersible Pumps

In determining the duty point of submersible pump the system curves of the distribution system is to be calculated. The system curve reflects the variation of the friction head and static head vary at different flow. The operation point of the submersible pump is the point of intersection between the System and the pump curves.

However, for situations where submersible pumps operate directly into the distribution mains, the system curve changes as new restriction add up in the static head component when consumption decreases at night. In such situations, the pump consumes more energy.

1.10 Operation of Submersible pumps using Variable Speed drives.

As stated above, a centrifugal pump is a dynamic device with the pressure head generated from a rotary impeller. All the characteristics of the submersible pump are related to the velocity of the impeller of the pump. The equations relating the rotodynamic pump performance parameters of flow, head and power absorbed to speed are known as the *Affinity laws*:

 $Q \alpha N$ $H \alpha N^{2}$ $P \alpha N^{3}$

Where:

Q: Flow rate m³/Hr

H: Head (m)

P: Power Absorbed (kW)

N: Rotating Speed (rpm)

Based on these equations, it is expected that doubling the speed of the centrifugal pump will increase the power consumption by 8 times and conversely, a small reduction of the speed will result in drastic reduction of power consumption.

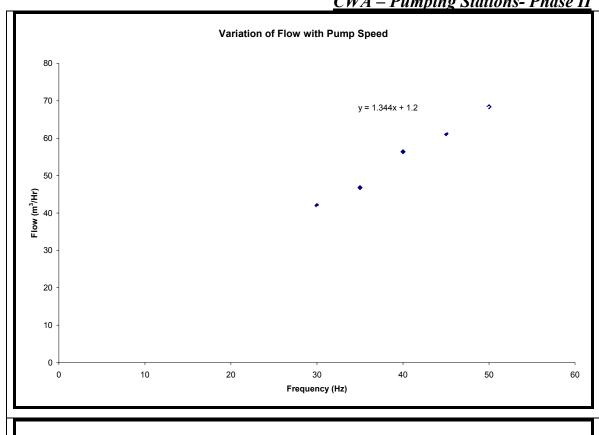
1.11 Test Results using Variable Speed Drive

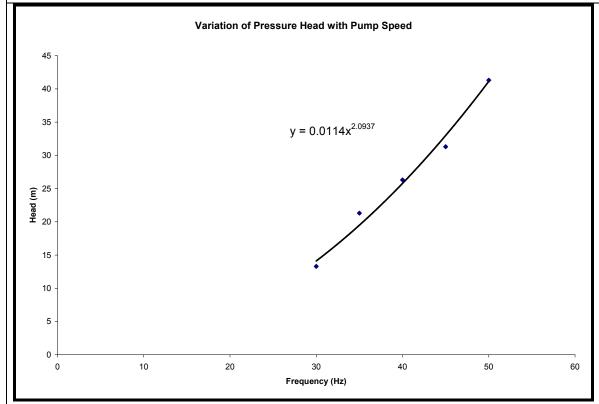
A 26kW Allen Bradley Variable Speed Drive was installed at Pailles Bench Test and was made to drive a Submersible Pump of make Saer rated at 125 m³/Hr x 32 m x 15kW ref: S 181-C2. The following results were obtained:

Test	Drive Speed	Flow	Pressure	Inpi	ut to Variab	le Spee	d Drive	•		Input to M	lotor	
No	(Hz)	(m³/hr)	(m)	Current (A)	Voltage (VAC)	pf	kW	kVA	Current (A)	Voltage (VAC)	pf	kW
1	50	68.4	41.3	33.7	408.0	0.995	18.3	18.6	27.2	391.6	0.813	11.0
2	45	61.2	31.3	19.8	408.0	0.995	13.8	13.9	26.2	322.6	0.820	12.6
3	40	56.4	26.3	14.8	409.0	0.993	10.4	10.5	22.9	256.8	0.980	8.8
4	35	46.8	21.3	11.8	410.0	0.988	8.6	8.4	20.4	195.2	0.850	6.1
5	30	42	13.3	8.2	410.0	0.990	5.7	5.8	19.6	192.8	0.860	4.0

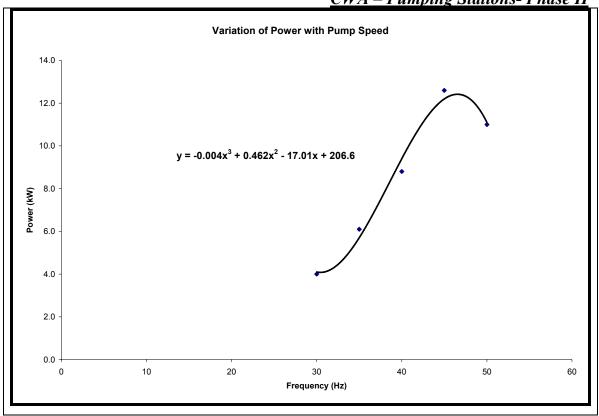
Based on the above mentioned results it is shown that as per laws of Affinity,

- The flow rate varies directly with the pump Speed.
- The pump head varies directly to the square of the pump speed (N²)
- The pump power varies to the cube of the pump speed (N^3)





<u>Project – Energy Auditing, Management & Efficiency at</u> <u>CWA – Pumping Stations- Phase II</u>



Analysis

2.1 Introduction.

This chapter deals with the analysis based on pump performance tests, theoretical pump curve, characteristic of distribution system and borehole information gathered from the Water Resources Unit and electricity cost from the Central Electricity Board.

2.2 Electrical Cost Analysis.

From the information gathered from Water Resources Unit, Central Water Authority – NRW (Non Revenue Water Section) and the Central Electricity Board, the electrical cost of production per meter cube of water has been done and same is given at Annex – 2, 3, 4, 5, 6. The cost of production for the year 2004 was Rs 0.74 /m³ and the cost of production for the year 2005 was Rs 0.77 /m³

The cost of production for Northern Pumping stations was **Rs 0.71** / m^3 (2004) and **Rs 0.70** / m^3 (2005) and the cost of production for Southern Pumping stations was **Rs 0.68** / m^3 (2004) and **Rs 0.75** / m^3 (2005)

It is observed that pumping stations operating directly on the distribution line have a cost of production near Rs $1.0\ /m^3$

It is also observed that the penalty charges on Excess kVA demand amounts to **Rs 111,900** in 2004 (0.182% of Annual Electricity Cost) and **Rs 84,530** in 2005 (0.119% of Annual Electricity Cost). These cases of Excess kVA have occurred prior to the installation of Power Factor Correctors and due to failure of the installed Power Factor Correctors on sites

2.3 Analysis based on System Characteristic

The following sites have been omitted due to the following reasons:

Site	Reason				
Constance BH 459, Petit Paquet	These Sites are being upgraded under the contract MW				
BH 900 and Belle Rose Clemencia	32, and the system characteristics are under change				
Pumping Station BH 42					
Bassin Loulou (Jamblon) BH	Pump Test not possible due to blocked piezzo pipe.				
New Cottage BH 564	Installed Electronic Flowmeter is out of service and				
	installation of NRW's Ultrasonic Flowmeter not				
	possible				

2.31 Analysis for DWS – Port Louis system

Beau Bois BH825 (CEB Acc: 3C7476)

The Borehole characteristics are:

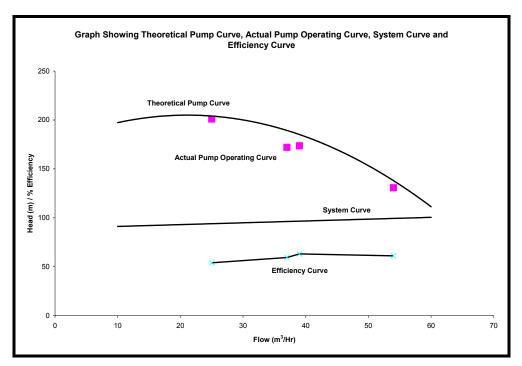
Borehole Depth: 123 m

Dynamic Water Level: 20.71m

Safe Yield: 40 m³/hr

Installed Pump Hydraulic Capacity: - 50 m³/hr x 150 m x 30 kW

Pump Make: Caprari Date Installed: 13-11-03



Based on pump performance tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical curve. The intersection point between the system curve and theoretical pump curve is found to be above the safe yield. The efficiency of the pump at its operational point is 63.1%. This pump is found to be overrated as the borehole suffers recurrent drop in its dynamic water level. Based on a pump efficiency of 70% and the available motor the required hydraulic capacity of pump would be 40 m³/hr x 100m x 17.5 kW

Beau Bois BH871 (CEB Acc:3C7872)

The Borehole characteristics are:

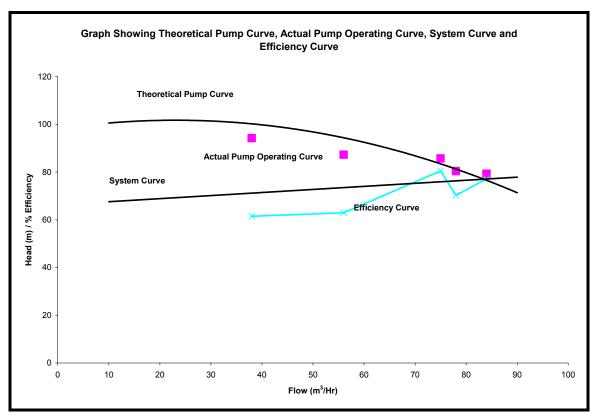
Borehole Depth: 120 m

Dynamic Water Level: 33.25m

Safe Yield: 88 m³/hr

Installed Pump Hydraulic Capacity: - $75 \text{ m}^3/\text{Hr} \times 80 \text{ m} \times 26 \text{ kW}$

Pump Make: Caprari Date Installed: 16-05-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 70.24%.

Beau Bois BH76B

The Borehole characteristics are:

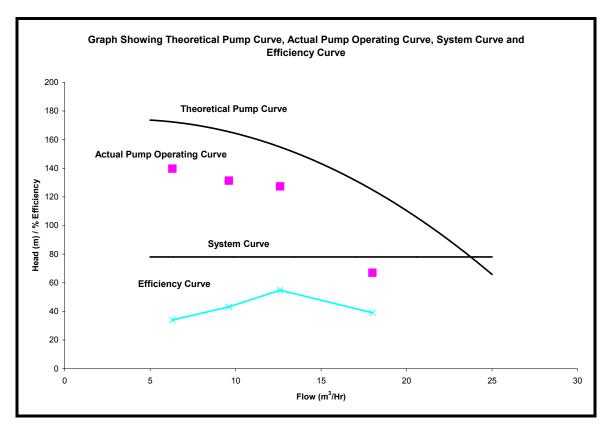
Borehole Depth: 59.4 m

Dynamic Water Level: 20.4 m

Safe Yield: 15 m³/hr

Installed Pump Hydraulic Capacity: - 20 m³/Hr x 91 m x 11 kW

Pump Make: Caprari Date Installed: 22-07-05



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 39.1%. This pump is overrated and the borehole suffers recurrent drop in water level under operation of this pump. The required pump based on an efficiency of 70% and available motor would be 15 m³/hr x 80m x 7.5kW

Beau Songes BH722C (CEB Acc:7C7212)

The Borehole characteristics are:

Borehole Depth: 85 m

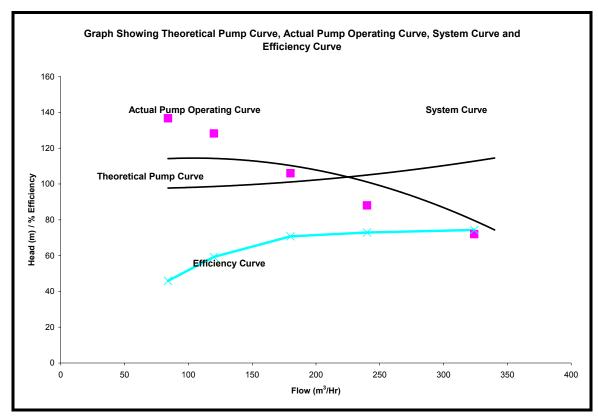
Dynamic Water Level: 51.4 m

Safe Yield: 240 m³/hr

Installed Pump Hydraulic Capacity: - 240 m³/Hr x 100 m x 92 kW

Pump Make: Caprari

Date Installed: : 28-07-99



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 74.3%.

Beau Songes BH 722B (CEB Acc:7C7212)

The Borehole characteristics are:

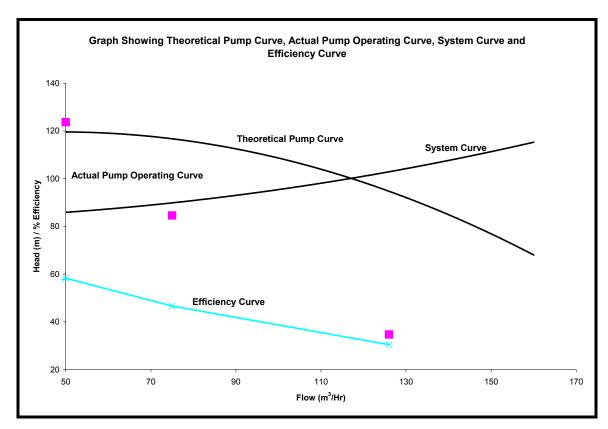
Borehole Depth: 81 m

Dynamic Water Level: 50.35 m

Safe Yield: 110 m³/hr

Installed Pump Hydraulic Capacity: - 100 m³/Hr x 125 m x 45 kW

Pump Make: Caprari Date Installed: 06-01-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 30.5%. The required pump based on an efficiency of 70% and available motor would be $110 \text{ m}^3/\text{hr} \times 100\text{m} \times 45\text{kW}$

Petite Riviere BH F2A (CEB Acc:1C4072)

The Borehole characteristics are:

Borehole Depth: 42 m

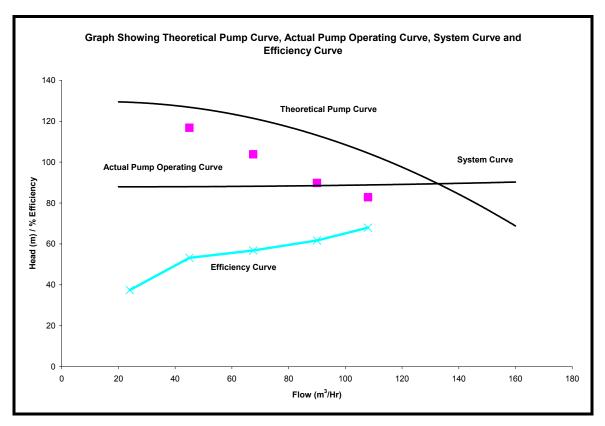
Dynamic Water Level: 37.7 m

Safe Yield: 114 m³/hr

Installed Pump Hydraulic Capacity: - 90 m³/Hr x 100 m x 37 kW

Pump Make: Caprari

Date Installed: 13-06-00



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 67.93%.

Pierrefonds BH712 (CEB Acc:7C7172)

The Borehole characteristics are:

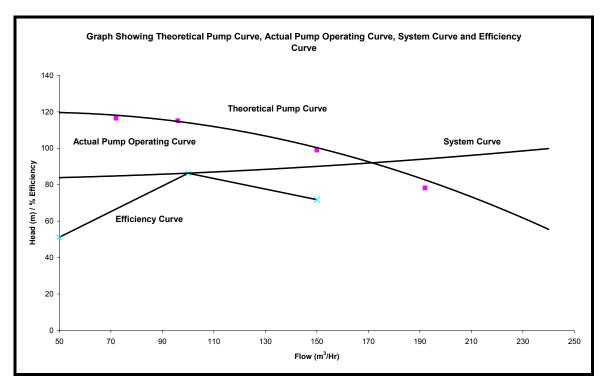
Borehole Depth: 145 m

Dynamic Water Level: 67.31 m

Safe Yield: 170 m³/hr

Installed Pump Hydraulic Capacity: - 200 m³/Hr x 75 m x 59 kW

Pump Make: Caprari Date Installed: 05-12-04

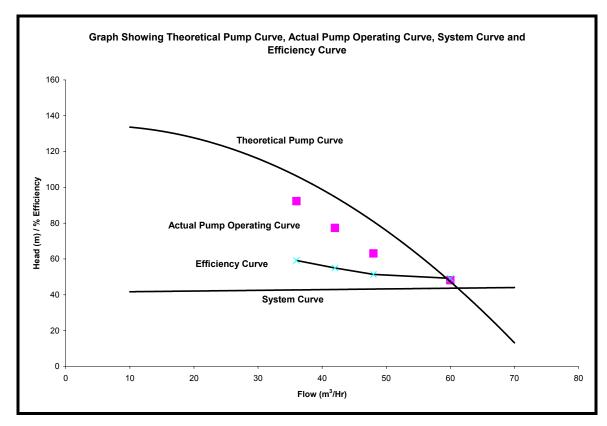


Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 71.8%.

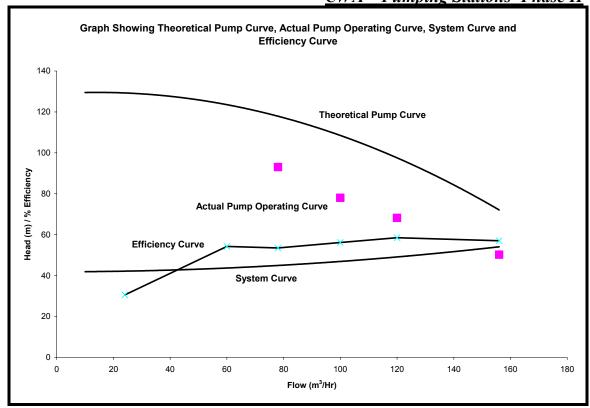
St Martin BH 367 A& B (CEB Acc:3C5942)

This site has two boreholes. Only one borehole is used at a time and the Borehole characteristics are:

	BH 367A	BH367B
Borehole Depth:	33 m	34 m
Dynamic Water Level:	22.8 m	20.8 m
Safe Yield:	75 m ³ /Hr	$123 \text{ m}^3/\text{Hr}$
Installed Pump Hydraulic	$50 \text{ m}^3/\text{Hr} \times 75 \text{ m} \times 15 \text{ kW}$	$120 \text{ m}^3/\text{Hr} \times 90 \text{ m} \times 45 \text{ kW}$
Capacity:		
Pump Make:	Super D	Caprari
D. (. I (. 11 . 1	22.07.00	11 00 02
Date Installed:	22-07-98	11-09-03



St Martin 367A



St Martin 367B

Based on tests,

- For St Martin 367A it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve and there is no intersection between the system curve and theoretical pump. The efficiency of the pump at its operational point is 56.97%. The required pump based on an efficiency of 70% and available motor would be 75 m³/hr x 50 m x 15 kW
- For St Martin 367B it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 49.8%. The required pump based on an efficiency of 70% and available motor would be 120 m³/hr x 50 m x 22 kW

2.32 Analysis for DWS - North system

Belle Vue Mauricia BH82 (CEB Acc: 6C1527)

The Borehole characteristics are:

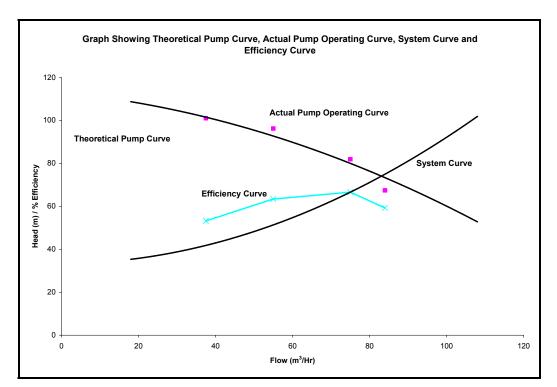
Borehole Depth: 64.3 m

Dynamic Water Level: 36.54 m

Safe Yield: 78 m³/Hr

Installed Pump Hydraulic Capacity: 75 m³/Hr x 80 m x 26 kW

Pump Make: Caprari Date Installed: 18-08-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 66.6% and is acceptable.

Bassin Loulou Gallery

The Borehole characteristics are:

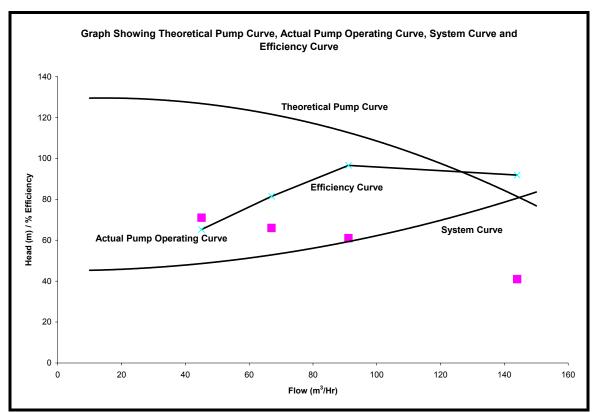
Well Depth: 5 m

Dynamic Water Level: 3m

Safe Yield: 90 m³/Hr

Installed Pump Hydraulic Capacity: 90 m³/Hr x 60 m x 22 kW

Pump Make: Caprari Date Installed: 17-06-00



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 91.96% and is acceptable.

Beau Plateau BH 737 (CEB Acc:2C7103)

The Borehole characteristics are:

Borehole Depth: 125 m

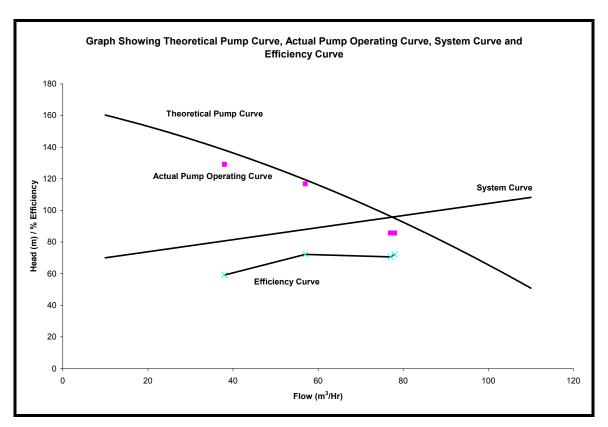
Dynamic Water Level: 23 m

Safe Yield: 100 m³/Hr

Installed Pump Hydraulic Capacity: 77 m³/Hr x 92 m x 26 kW

Pump Make: Grundfos

Date Installed: 18-03-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 72.1%. This site is underutilized.

Bois Mangues BH 12 (CEB Acc: 6C1528)

The Borehole characteristics are:

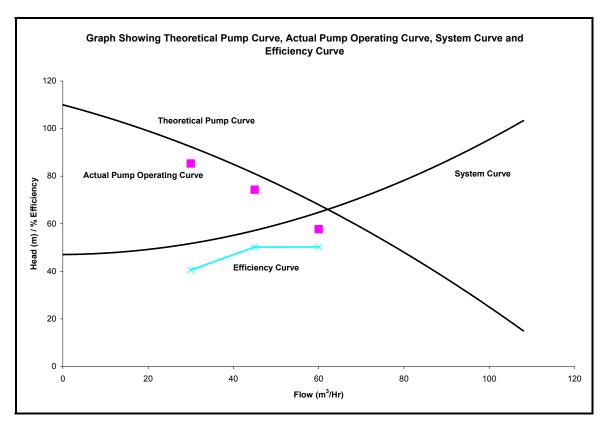
Borehole Depth: 66 m

Dynamic Water Level: 46 m

Safe Yield: 54 m³/Hr

Installed Pump Hydraulic Capacity: 60 m³/Hr x 70 m x 22 kW

Pump Make: Used Super D Date Installed: 28-11-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 50.2%. This is due to the use of an oversized motor. The recommended pump based on a pump efficiency of 70% and available motor rating; will be 50 m³/hr x 60 m x 11kW

Camp La Boue BH SW26 (CEB Acc:6C6109)

The Borehole characteristics are:

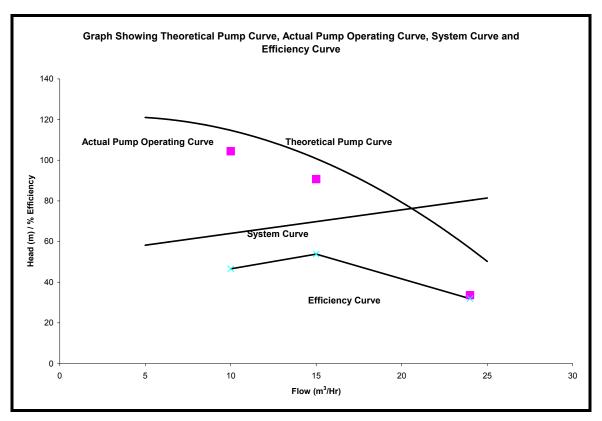
Borehole Depth: 25 m

Dynamic Water Level: 9 m

Safe Yield: 24 m³/Hr

Installed Pump Hydraulic Capacity: 20 m³/Hr x 75 m x 5.6 kW

Pump Make: Used Super D Date Installed: 01-03-99



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 31.9%. The recommended pump based on a pump efficiency of 70% and available motor rating; will be $25\text{m}^3/\text{hr} \times 80\text{m} \times 11\text{ kW}$

Camp Thorel BH 754 (CEB Acc: 6C7201)

The Borehole characteristics are:

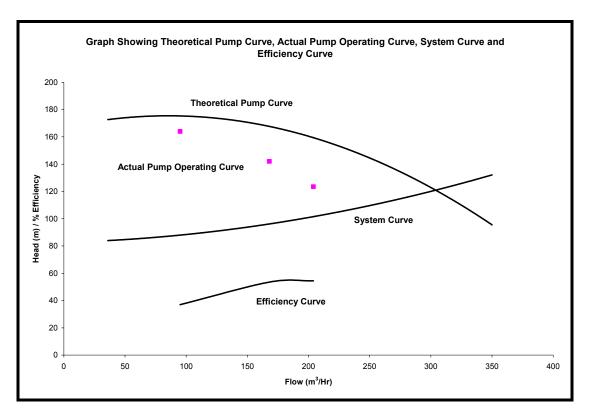
Borehole Depth: 91 m

Dynamic Water Level: 23.37 m

Safe Yield: 240 m³/Hr

Installed Pump Hydraulic Capacity: 330 m³/Hr x 105 m x 132 kW

Pump Make: Caprari Date Installed: 25-10-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 54.4% and is acceptable. This pump is highly overrated. The recommended pump at the safe yield based on a pump efficiency of 70% and available motor rating would be 240 m³/Hr x 110 m x 110 kW.

Cottage Poonith BH 563A (CEB Acc: 2C4693)

The Borehole characteristics are:

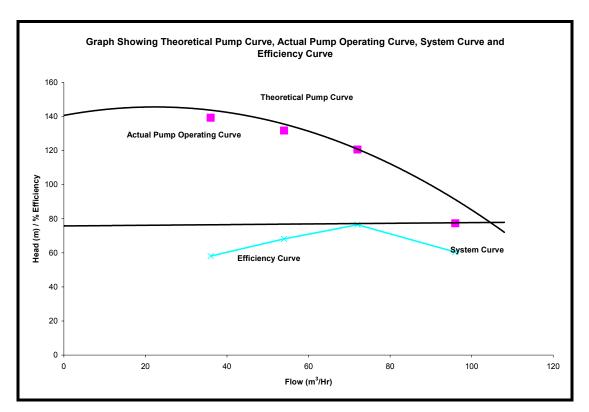
Borehole Depth: 80 m

Dynamic Water Level: 46.4 m

Safe Yield: 108 m³/Hr

Installed Pump Hydraulic Capacity: 72 m³/Hr x 120 m x 37 kW

Pump Make: Caprari Date Installed: 11-03-05



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 76.5%.

Esperance Trebuchet BH 537A (CEB Acc: 2C3014)

The Borehole characteristics are:

Borehole Depth: 46.02 m

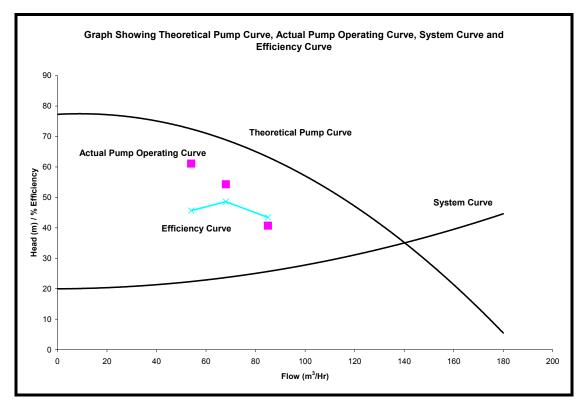
Dynamic Water Level: 20.35 m

Safe Yield: 108 m³/Hr

Installed Pump Hydraulic Capacity: 90 m³/Hr x 55 m x 18.5 kW

Pump Make: Jetspa

Date Installed: 16-09-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 43.43%. However, the delivery head of the pump is overrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $110 \text{ m}^3/\text{Hr} \times 35 \text{ m} \times 15 \text{ kW}$.

Fond Du Sac BH 1 (CEB Acc: 6C2562)

The Borehole characteristics are:

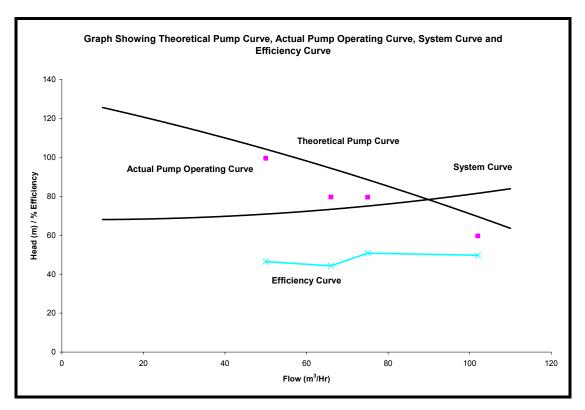
Borehole Depth: 48.76 m

Dynamic Water Level: 39.44 m

Safe Yield: 72 m³/Hr

Installed Pump Hydraulic Capacity: 100 m³/Hr x 95 m x 30 kW

Pump Make: Rovatti
Date Installed: 25-09-01



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above safe yield. The efficiency of the pump at its operational point is 50.8%. The delivery head of the pump is overrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $72 \text{ m}^3/\text{Hr} \times 80 \text{ m} \times 22 \text{ kW}$

Fond Du Sac BH 643 (CEB Acc: 6C2562)

The Borehole characteristics are:

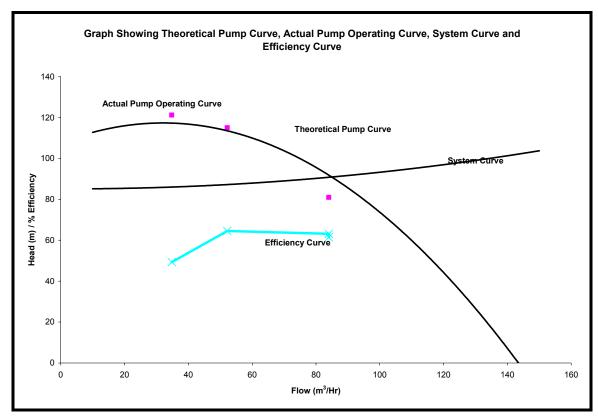
Borehole Depth: 47 m

Dynamic Water Level: 39.85 m

Safe Yield: 152 m³/Hr

Installed Pump Hydraulic Capacity: 90 m³/Hr x 100 m x 37 kW

Pump Make: Rovatti
Date Installed: 09-10-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 61.5%.

Fond Du Sac - Forbach BH 743 (CEB Acc: 6C7464)

The Borehole characteristics are:

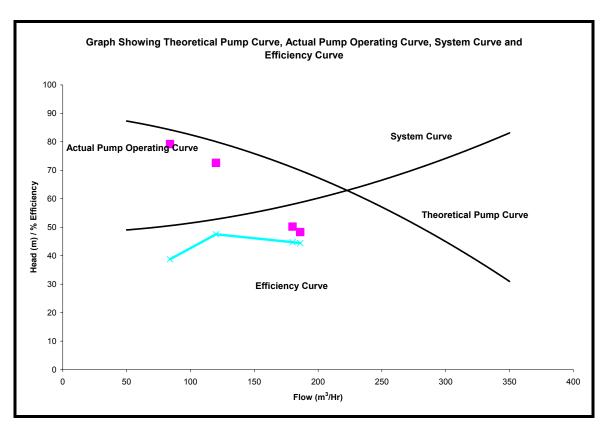
Borehole Depth: 123 m

Dynamic Water Level: 47 m

Safe Yield: 261 m³/Hr

Installed Pump Hydraulic Capacity: 240 m³/Hr x 60 m x 55 kW

Pump Make: Rovatti
Date Installed: 01-07-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 44.4%. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $260 \text{ m}^3/\text{Hr} \times 70 \text{ m} \times 70 \text{ kW}$

Haute Rive BH 391B (CEB Acc:2C2854)

The Borehole characteristics are:

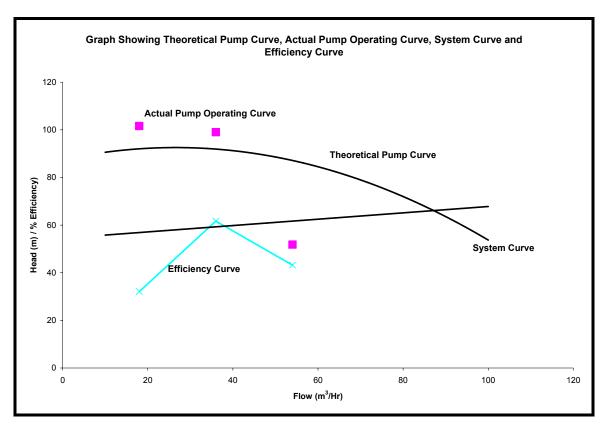
Borehole Depth: 40 m

Dynamic Water Level: 22 m

Safe Yield: 72m³/Hr

Installed Pump Hydraulic Capacity: 80 m³/Hr x 70 m x 22 kW

Pump Make: Caprari Date Installed: 19-10-01



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. However, this yield is rarely achieved. The efficiency of the pump at its operational point is 43.2%. Based on a pump efficiency of 70% and available motor rating a pump of rating 60 m³/Hr x 70 m x 18.5 kW is recommended

La clemence BH 692 (CEB Acc:2C6258)

The Borehole characteristics are:

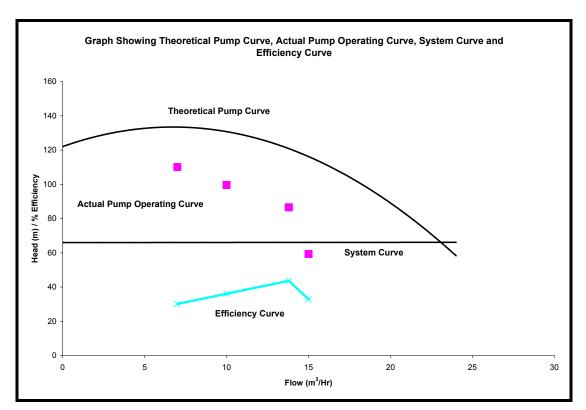
Borehole Depth: 60 m

Dynamic Water Level: 29.47 m

Safe Yield: 54 m³/Hr

Installed Pump Hydraulic Capacity: 20m³/Hr x 90m x 11kW

Pump Make: Caprari Date Installed: 18-01-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 32.8%. Based on a pump efficiency of 70% and available motor rating a pump of rating 20 m³/Hr x 70 m x 7.5 kW is recommended

La Louisa BH 936 (CEB Acc:)

The Borehole characteristics are:

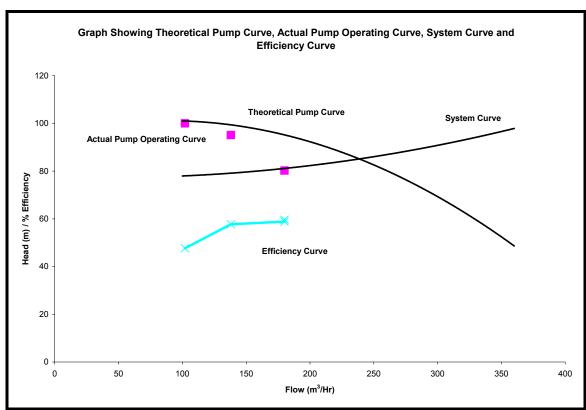
Borehole Depth: 101 m

Dynamic Water Level: 40.7 m

Safe Yield: 315 m³/Hr

Installed Pump Hydraulic Capacity: 275 m³/Hr x 75 m x 75 kW

Pump Make: Caprari Date Installed: 10-09-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 59.6%.

Labourdonnais BH 551A (CEB Acc:2C5741)

The Borehole characteristics are:

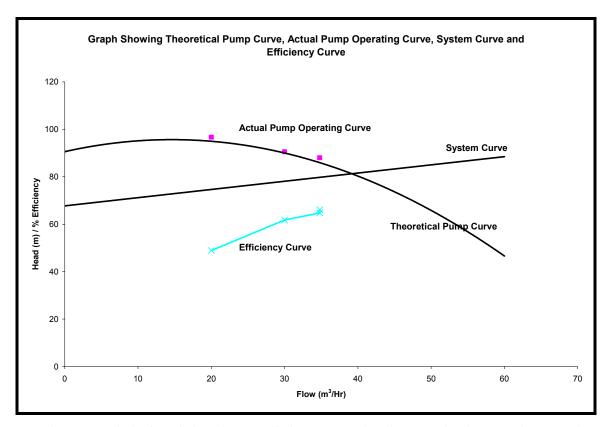
Borehole Depth: 84 m

Dynamic Water Level: 61.37 m

Safe Yield: 42 m³/Hr

Installed Pump Hydraulic Capacity: 40 m³/Hr x 80 m x 15 kW

Pump Make: Caprari Date Installed: 10-03-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 66.1%.

Mapou BH 558 (CEB Acc:6C7196)

The Borehole characteristics are:

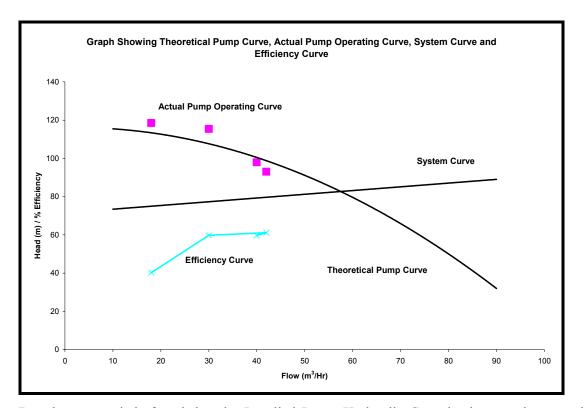
Borehole Depth: 87 m

Dynamic Water Level: 54.73 m

Safe Yield: 65 m³/Hr

Installed Pump Hydraulic Capacity: 60 m³/Hr x 80 m x 22.4 kW

Pump Make: Caprari Date Installed: 21-03-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above safe yield. The efficiency of the pump at its operational point is 59.7 %. This pump experienced failure on 15-03-06 and was replaced by a used pump rated at $75 \text{ m}^3/\text{Hr} \times 75 \text{ m} \times 20 \text{ kW}$. However, the recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $65 \text{ m}^3/\text{Hr} \times 85 \text{ m} \times 22 \text{ kW}$

Mon Loisir BH 720 (CEB Acc:2C6703)

The Borehole characteristics are:

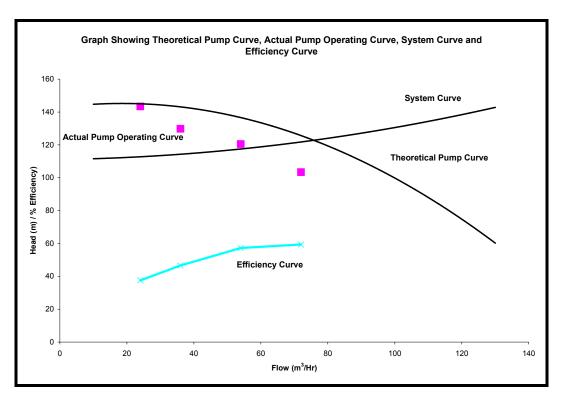
Borehole Depth: 61.8 m

Dynamic Water Level: 40.43 m

Safe Yield: 100 m³/Hr

Installed Pump Hydraulic Capacity 90 m³/Hr x 100 m x 37 kW

Pump Make: Caprari Date Installed: 23-11-01

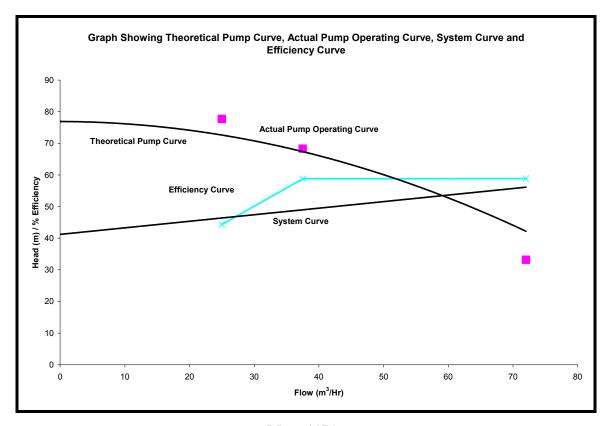


Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 59.4%. This borehole is underexploited as the requirement for the distribution line is below the borehole yield.

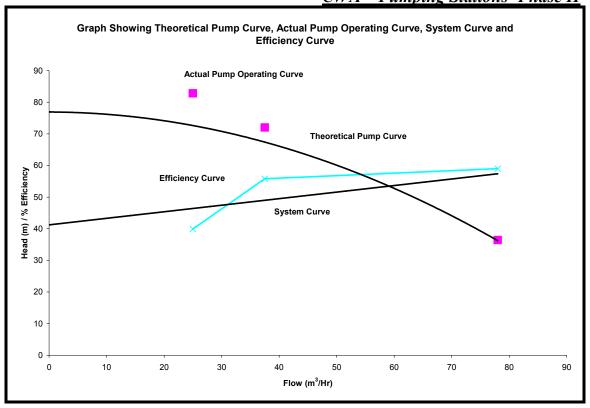
Morcellement St Andre BH 117A& B (CEB Acc: 6C3521)

This site has two boreholes. Only one borehole is used at a time and the Borehole characteristics are:

	BH 117A	BH117B
Borehole Depth:	58 m	55 m
Dynamic Water Level:	21.4 m	16.79 m
Safe Yield:	66 m ³ /Hr	66 m ³ /Hr
Installed Pump Hydraulic Capacity:	50 m ³ /Hr x 60 m x 22 kW	50 m ³ /Hr x 60 m x 18.5 kW
Pump Make:	Grundfos	Grundfos
Date Installed	09-06-99	18-05-99



Morc 117A



Morc 117B

Based on tests,

- For Morc 117A it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve and the intersection between the system curve and theoretical pump is near the safe yield. The efficiency of the pump at its operational point is 58.8%.
- For Morc 117B it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 59%.

Morcellement St Andre BH 306 (CEB Acc:6C2798)

The Borehole characteristics are:

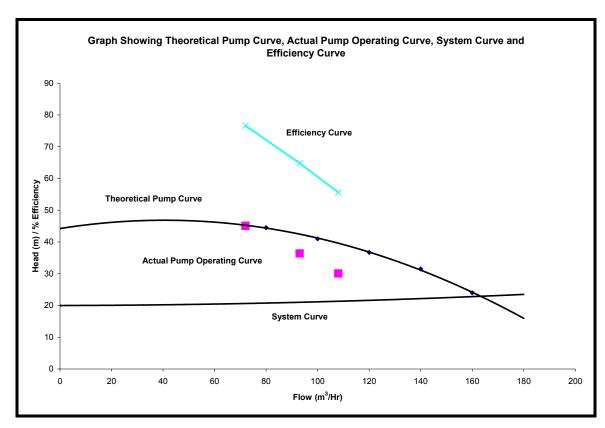
Borehole Depth: 26.2 m

Dynamic Water Level: 22.57

Safe Yield: 144 m³/Hr

Installed Pump Hydraulic Capacity: 125 m³/Hr x 32 m x 18.5 kW

Pump Make: Caprari Date Installed: 22-10-03

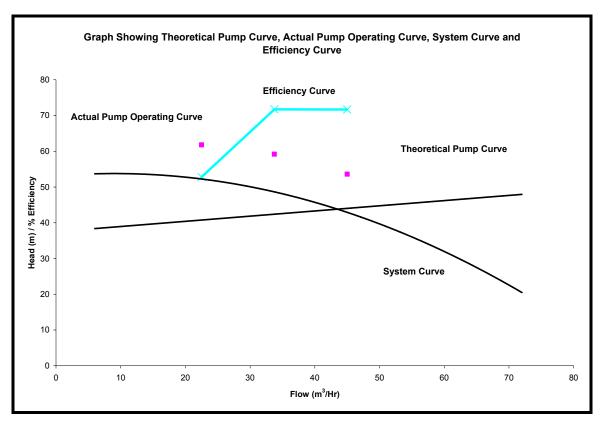


Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 55.6%.

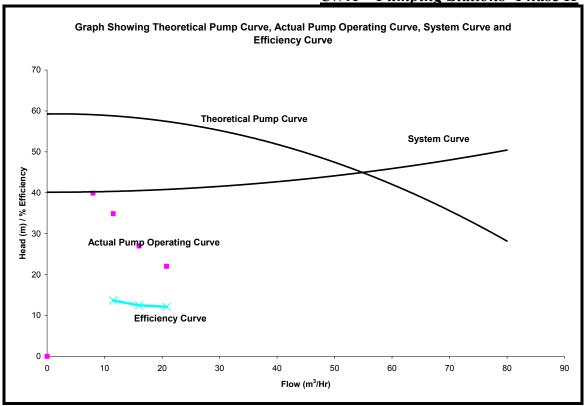
Morcellement St Andre BH 309 A& B (CEB Acc:6C3523)

This site has two boreholes. Only one borehole is used at a time and the Borehole characteristics are:

	BH 309A	BH309B
Borehole Depth:	72 m	63 m
Dynamic Water Level:	39.6	14.2
Safe Yield:	$42 \text{ m}^3/\text{Hr}$	$42 \text{ m}^3/\text{Hr}$
Installed Pump Hydraulic	$45 \text{ m}^3/\text{Hr} \times 40 \text{ m} \times 11 \text{ kW}$	$25 \text{ m}^3/\text{Hr} \times 40 \text{ m} \times 9.2 \text{ kW}$
Capacity:		
Pump Make:	Jetspa	Caprari
Date Installed	16-02-02	16-08-05
Date instance	10-02-02	10-00-03



Morc 309A



Morc 309B

Based on tests,

- For BH 309A it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 71.7%. The Installed Pump Hydraulic Capacity's motor is overrated and based on a pump efficiency of 70% and available motor rating a pump of rating 45 m³/Hr x 40 m x 7.5 kW is recommended
- For BH 309B it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 12.1% the Installed Pump Hydraulic Capacity's motor is overrated and based on a pump efficiency of 70% and available motor rating a pump of rating 45 m³/Hr x 40 m x 7.5 kW is recommended

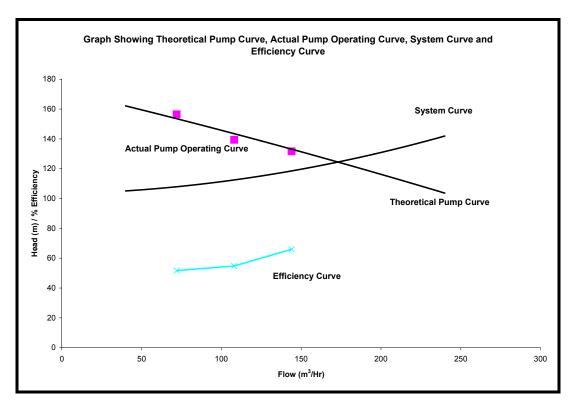
Piton Bon Espoir BH 820 (CEB Acc:2C7420)

The Borehole characteristics are:

Borehole Depth: 133 m Dynamic Water Level: 84 Safe Yield: 194 m³/Hr

Installed Pump Hydraulic Capacity: 240 m³/Hr x 100 m x 92 kW

Pump Make: Caprari Date Installed: 25-04-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 65.99%.

Poudre D'Or BH 752 (CEB Acc:2C7137)

The Borehole characteristics are:

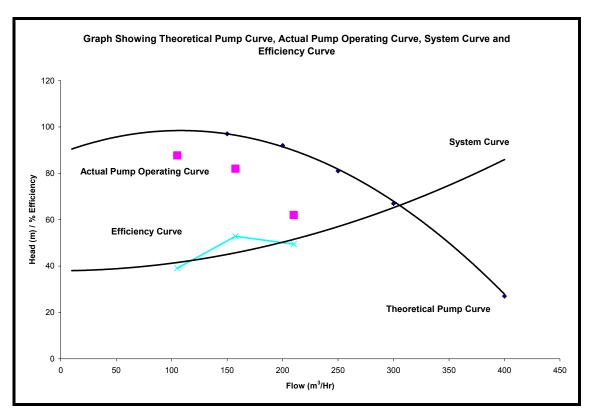
Borehole Depth: 99 m

Dynamic Water Level: 30

Safe Yield: 270 m³/Hr

Installed Pump Hydraulic Capacity: 306 m³/Hr x 70 m x 75 kW

Pump Make: Caprari Date Installed: 11-01-00



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 49.43%. Based on a pump efficiency of 70% and available motor rating a pump of rating $270 \text{ m}^3/\text{Hr} \text{ x}$ 60 m x 65 kW is recommended

Poudre D'Or BH 123(i) (CEB Acc:2M0382)

The Borehole characteristics are:

Borehole Depth: 54 m

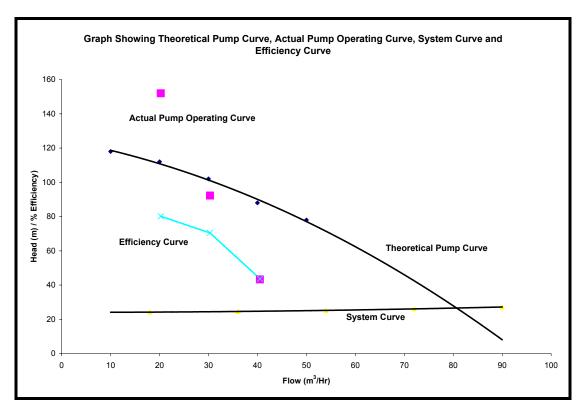
Dynamic Water Level: 37.96

Safe Yield: 66 m³/Hr

Installed Pump Hydraulic Capacity: 50 m³/Hr x 60 m x 15 kW

Pump Make: Super D

Date Installed: 03-11-97



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 43.7%. Based on a pump efficiency of 70% and available motor rating a pump of rating 60 m³/Hr x 40 m x 11 kW is recommended

Poudre D'Or BH 123(ii) (CEB Acc:2C4592)

The Borehole characteristics are:

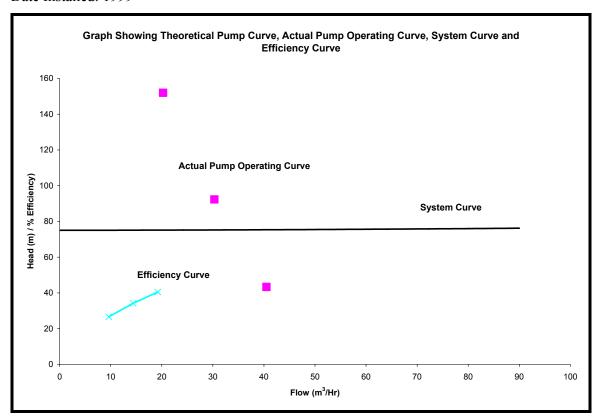
Borehole Depth: 50.6 m

Dynamic Water Level: 22.76

Safe Yield: 72 m³/Hr

Installed Pump Hydraulic Capacity: 37 m³/Hr x 50 m x 9.3 kW

Pump Make: KSB Date Installed: 1999



The theoretical pump curve is not available for this pump. The efficiency of the pump at its operational point is 40.47%. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $72 \text{ m}^3/\text{Hr} \times 80 \text{ m} \times 22 \text{ kW}$

Poudre D'Or BH 123(iii) (CEB Acc:2C2308)

The Borehole characteristics are:

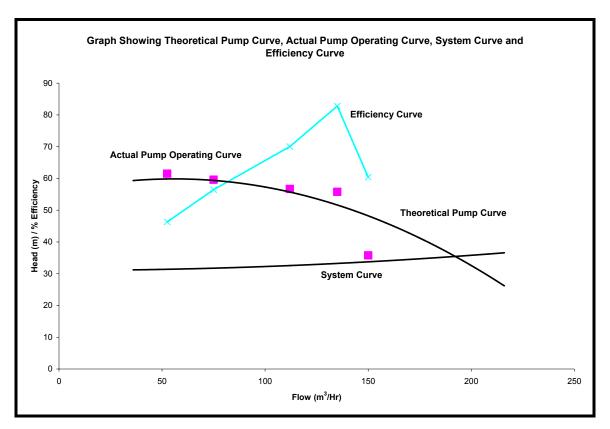
Borehole Depth: 34 m

Dynamic Water Level: 25.54

Safe Yield: 120 m³/Hr

Installed Pump Hydraulic Capacity: 180 m³/Hr x 40 m x 26 kW

Pump Make: Caprari Date Installed: 28-02-01



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 82.7%. Based on a pump efficiency of 70% and available motor rating a pump of rating 120 m³/Hr x 40 m x 18 kW is recommended.

Poudre D'Or BH 123(iv) (CEB Acc:2C4281)

The Borehole characteristics are:

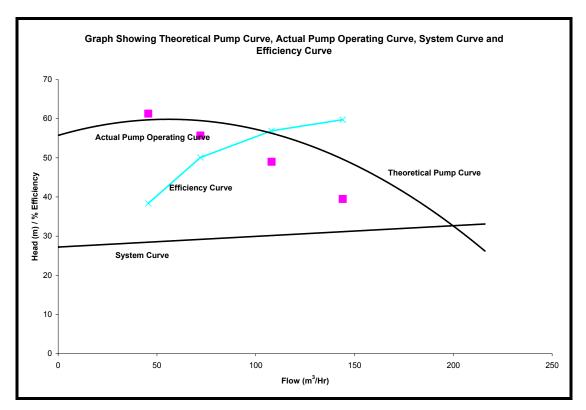
Borehole Depth: 41.3 m

Dynamic Water Level: 23.3

Safe Yield: 156 m³/Hr

Installed Pump Hydraulic Capacity: 180 m³/Hr x 40 m x 30 kW

Pump Make: Caprari Date Installed: 30-06-97

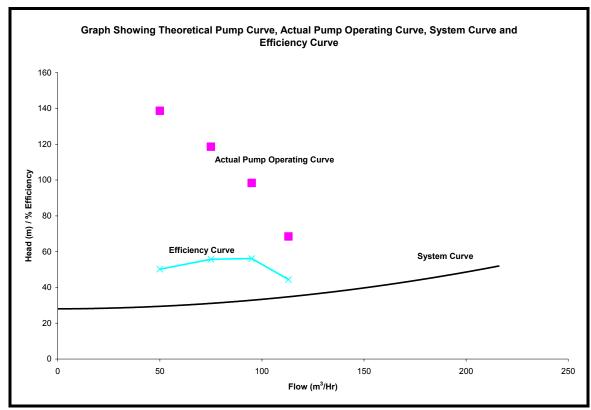


Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 59.74%. Based on a pump efficiency of 70% and available motor rating a pump of rating 156 m³/Hr x 40 m x 26 kW is recommended

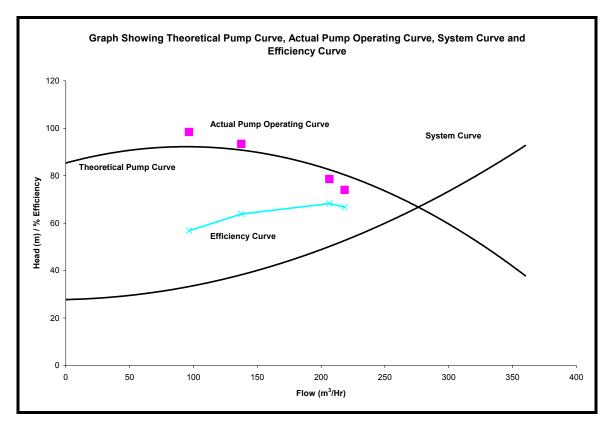
Petite Retraite BH 1 (CEB Acc:2C2849)

This site has two boreholes which are operated simultaneously. The Borehole characteristics are:

	BH 1	BH2
Borehole Depth:	34.6 m	41 m
Dynamic Water Level:	26	30.2
Safe Yield:	$210 \text{ m}^3/\text{Hr}$	$210 \text{ m}^3/\text{Hr}$
Installed Pump Hydraulic	$150 \text{ m}^3/\text{Hr} \times 80 \text{ m} \times 45 \text{ kW}$	275 m ³ /Hr x 65 m x 66 kW
Capacity:		
Pump Make:	Caprari	Caprari
Date Installed	6-12-94	11-04-00



Petite Retraite No 1



Petite Retraite No 2

Based on tests,

- For Petite Retraite BH 1, the theoretical pump curve is not available. The efficiency of the pump at its operational point is 44.42%. The required pump based on a pump efficiency of 70% and available motor rating a pump of rating 210 m³/Hr x 40 m x 32 kW is recommended
- For Petite Retraite BH 2 it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 68% the Installed Pump Hydraulic Capacity's motor is overrated and based on a pump efficiency of 70% and available motor rating a pump of rating 210 m³/Hr x 40 m x 32 kW is recommended

Riche Terre BH 36 (CEB Acc:)

The Borehole characteristics are:

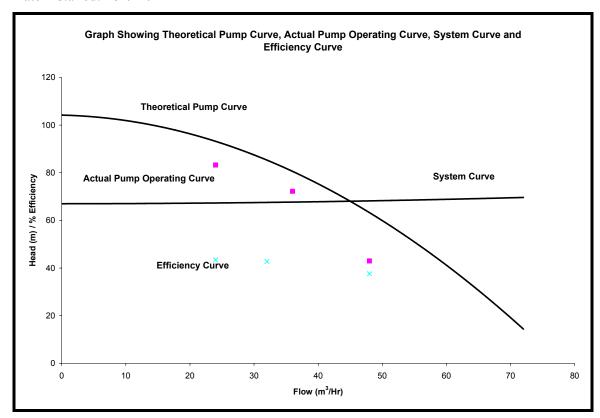
Borehole Depth: 36 m

Dynamic Water Level: 34.21

Safe Yield: 60 m³/Hr

Installed Pump Hydraulic Capacity: 50 m³/Hr x 60 m x 15 kW

Pump Make: Rovatti
Date Installed: 28-01-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 37.7%. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $60 \text{ m}^3/\text{Hr} \times 70 \text{ m} \times 18 \text{ kW}$

New Schoenfeld BH 337A (CEB Acc:2C4322)

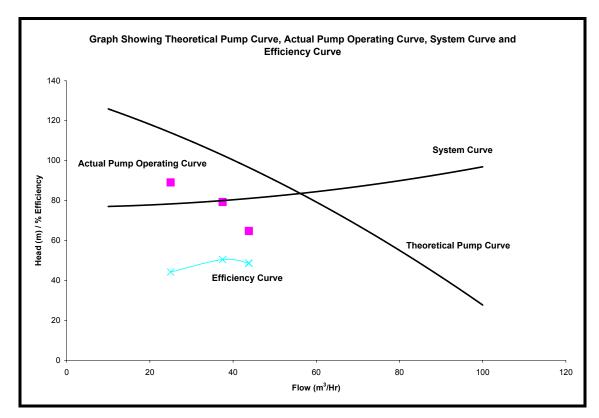
The Borehole characteristics are:

Borehole Depth: 33.83 m Dynamic Water Level: 11.53

Safe Yield: 96 m³/Hr

Installed Pump Hydraulic Capacity: 50 m³/Hr x 80 m x 18.5 kW

Pump Make: Caprari Date Installed: 13-11-03



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well below the safe yield. The efficiency of the pump at its operational point is 48.7%. This pump operates directly on the distribution line and the required flow is only 50m³/hr. At this flow, the Installed Pump Hydraulic Capacity is appropriate.

New Schoenfeld BH 337 (CEB Acc:)

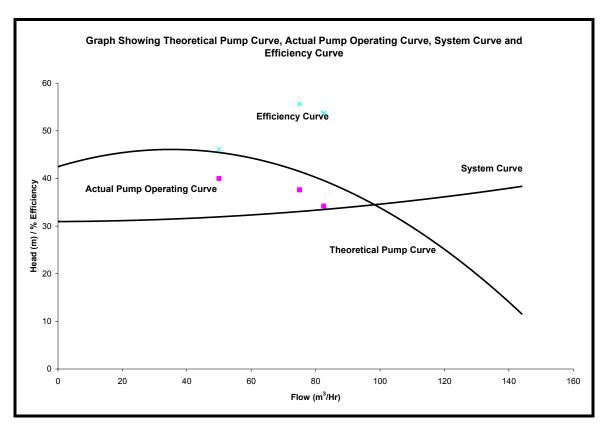
The Borehole characteristics are:

Borehole Depth: 32.4 m Dynamic Water Level: 19.4

Safe Yield: 96 m³/Hr

Installed Pump Hydraulic Capacity: 130 m³/Hr x 30 m x 15 kW

Pump Make: Caprari Date Installed: 10-09-01



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 53.7%.

Solitude BH 748 (CEB Acc: 6C7044)

The Borehole characteristics are:

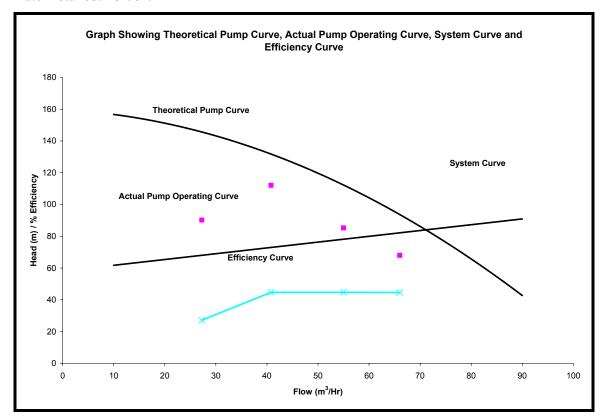
Borehole Depth: 112 m

Dynamic Water Level: 32m

Safe Yield: 80 m³/Hr

Installed Pump Hydraulic Capacity: 55 m³/Hr x 110 m x 26 kW

Pump Make: Rovatti
Date Installed: 28-08-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 44.6%. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be $80 \text{ m}^3/\text{Hr} \times 90 \text{ m} \times 28 \text{ kW}$

2.33 Analysis for DWS – East system

Bel Etang BH 538 (CEB Acc: 4C4910)

The Borehole characteristics are:

Borehole Depth: 58 m

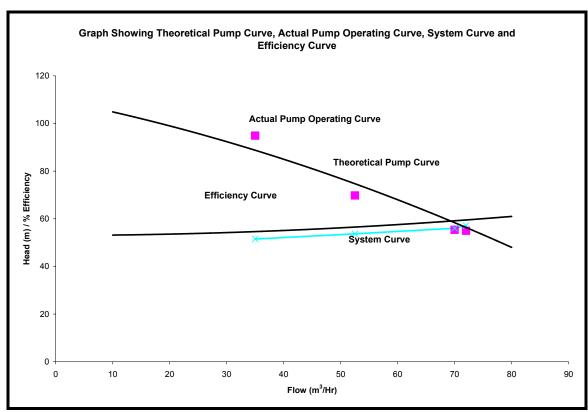
Dynamic Water Level: 23

Safe Yield: 70 m³/Hr

Installed Pump Hydraulic Capacity: 70 m³/Hr x 60 m x 18.6 kW

Pump Make: Super D

Date Installed: 31-03-97

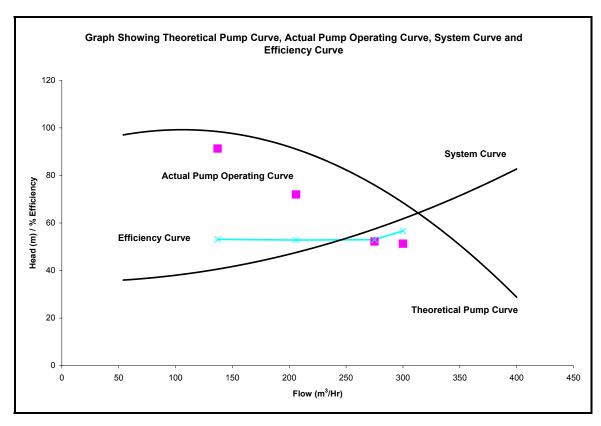


Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 57.14%.

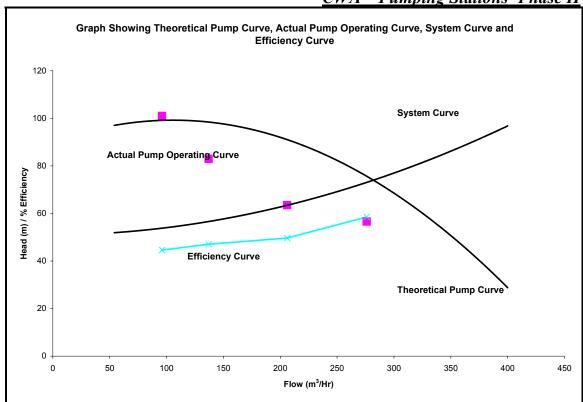
Bonne Mere BH 492 A & B (CEB Acc:2C3357)

This site has two boreholes. Only one borehole is used at a time and the Borehole characteristics are:

	BH 492A	BH492B
Borehole Depth:	39,5 m	47.24 m
Dynamic Water Level:	34.5	25.64
Safe Yield:	210 m ³ /Hr	150 m ³ /Hr
Installed Pump Hydraulic Capacity:	275 m ³ /Hr x 75 m x 75 kW	275 m ³ /Hr x 75 m x 75 kW
Pump Make:	Caprari	Caprari
Date Installed	16-08-05	06-10-98



Test Results for Borehole 492A



Test Results for Borehole 492B

Based on tests, it is found that for both boreholes, the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump for Borehole 492A at its operational point is 58.54% and that of Borehole 492B is 56.7% and is acceptable. This site has been continuously producing above 270 m³/Hr without any drastic drop in the Dynamic Water Level. The recommended pump at this flow would be 270 m³/Hr x 60 m x 66 kW.

Camp Ithier BH 815 (CEB Acc:2C7848)

The Borehole characteristics are:

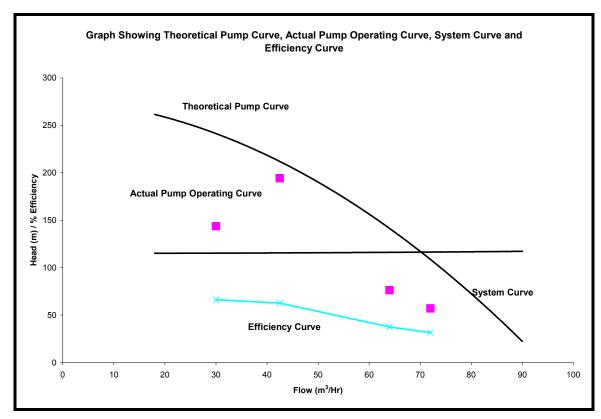
Borehole Depth: 122 m

Dynamic Water Level: 59.6

Safe Yield: 85 m³/Hr

Installed Pump Hydraulic Capacity: 85 m³/Hr x 125 m x 37 kW

Pump Make: Caprari Date Installed: 21-02-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 31.4%. The Installed Pump Hydraulic Capacity has an underrated motor and can lead to pump failure. Based on a pump efficiency of 70% and available motor rating a pump of rating 85 m³/Hr x 125 m x 45 kW is recommended

Caroline BH 44A (CEB Acc:2C1937)

The Borehole characteristics are:

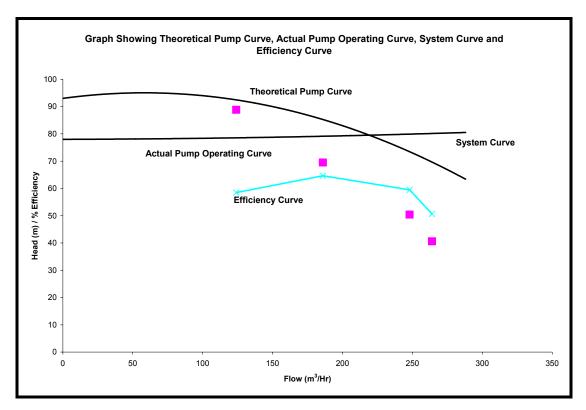
Borehole Depth: 32 m

Dynamic Water Level: 10.99

Safe Yield: 220 m³/Hr

Installed Pump Hydraulic Capacity: 229 m³/Hr x 66 m x 66 kW

Pump Make: Caprari Date Installed: 23-03-99



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is near its safe yield. The efficiency of the pump at its operational point is 50.67% which is acceptable. This delivery head of the pump is underrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be 220 m 3 /Hr x 80 m x 70 kW.

Caroline BH 44B (CEB Acc: 2C1937)

The Borehole characteristics are:

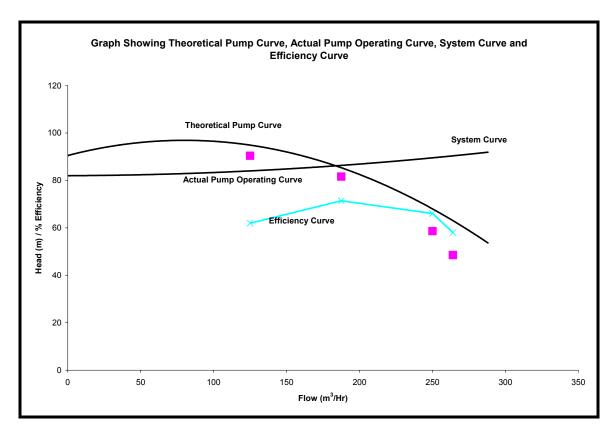
Borehole Depth: 34 m

Dynamic Water Level: 14.32

Safe Yield: 240 m³/Hr

Installed Pump Hydraulic Capacity: 250 m³/Hr x 65 m x 59 kW

Pump Make: Caprari Date Installed: 27-03-02



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is near its safe yield. The efficiency of the pump at its operational point is 58.01%. This delivery head of the pump is underrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be 240 m³/Hr x 90 m x 84 kW.

Laventure BH 11A (CEB Acc:)

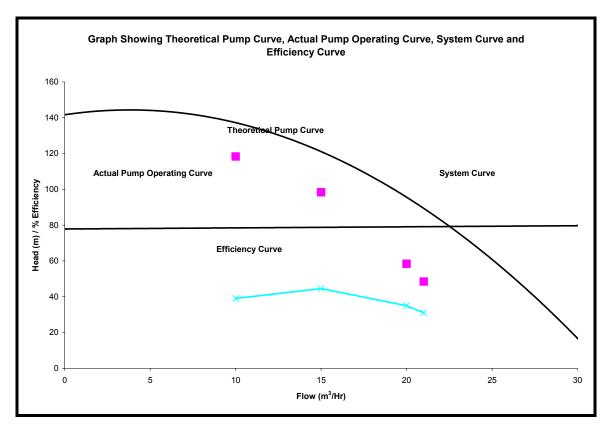
The Borehole characteristics are:

Borehole Depth: 39.6 m Dynamic Water Level: m Safe Yield: 27 m³/Hr

Installed Pump Hydraulic Capacity: 20m³/Hr x 90 m x 18.5 kW

Pump Make: Super D

Date Installed: 22-10-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. However, the intersection between the system curve and theoretical pump curve is near its safe yield. The efficiency of the pump at its operational point is 30.99%. the installed motor is overrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be 30 m³/Hr x 80 m x 11 kW.

2.4 Analysis for sites under M&E South

The following sites have been omitted for the respective reasons:

Site	Reason
	This site has a bypass in the line just after the head plate
	where some of the pumped water is returned back into the
Choisy Baie Du Cap BH 776	borehole. This bypass is necessary to keep the dynamic water
	level constant and avoid the pump being switched off due to
	low water level.
Trois Boutiques BH	This borehole is not connected on the distribution mains
G Bassin	Private Borehole

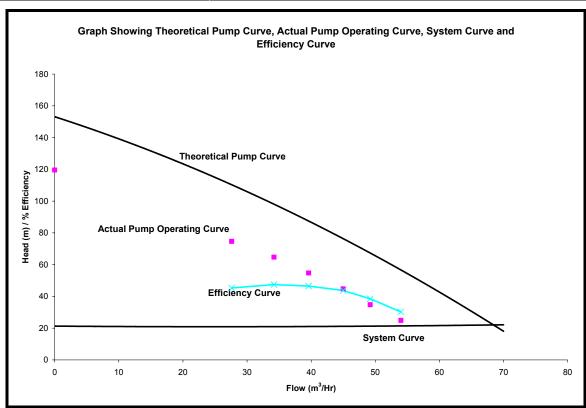
2.41 Analysis for DWS – South system

Café BH 387 (CEB Acc: 5C6275) & T Boutiques BH 204 (CEB Acc:5C3165)

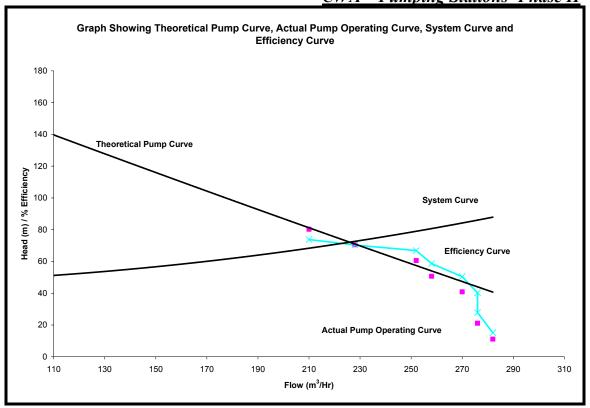
These two boreholes separated by some 1.5 km pump onto Mon Desert Reservoir.

The Borehole characteristics are:

	Café 387	T Boutiques 204
Borehole Depth:	36 m	36.8 m
Dynamic Water Level:	13 m	19.4 m
Safe Yield:	55 m ³ /Hr	250 m ³ /Hr
Installed Pump Hydraulic	$50 \text{ m}^3/\text{Hr} \times 50 \text{ m} \times 15 \text{ kW}$	220 m ³ /Hr x 75 m x 66 kW
Capacity:		
Pump Make:	Grundfos	Caprari
Date Installed	02-07-00	01-07-99



Café 387



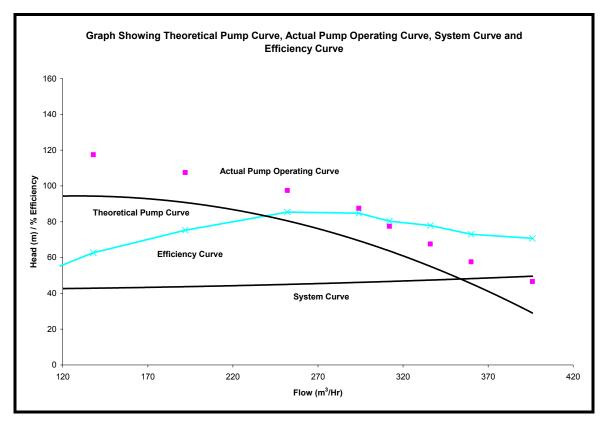
T Boutiques 204

- For Café 387, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 30.2%. However, the delivery head of the pump is overrated so that it is operational on the delivery mains being fed by T Boutique BH. (Calculated Pressure at junction of Café to Trois Boutiques Line: 5 Bar)
- For T Boutiques, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 66%. This pump is rated correctly and performing efficiently.

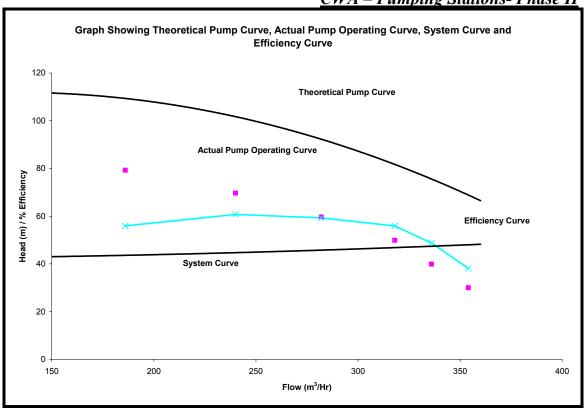
Cluny 217 A, B & C (CEB Acc:5C3152)

This site has three boreholes. BH 217A and BH 217B operate simultaneously and feed New Cluny reservoir, whereas BH 217C feeds directly on the distribution mains

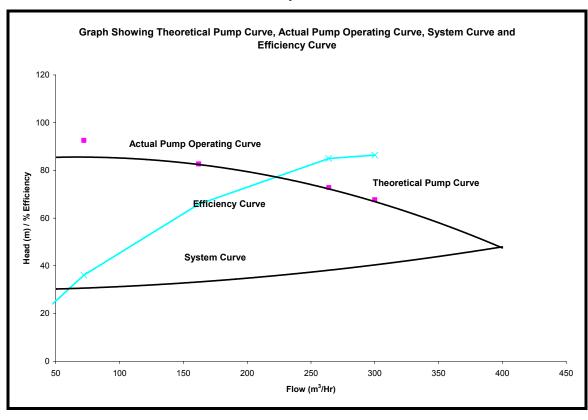
	217A	217B	217C
Borehole Depth:	42.6 m	45.72 m	45 m
Dynamic Water Level:	11.2 m	11.69 m	6.48 m
Safe Yield:	$300 \text{ m}^3/\text{Hr}$	$300 \text{ m}^3/\text{Hr}$	$300 \text{ m}^3/\text{Hr}$
Installed Pump Hydraulic	$300 \text{ m}^3/\text{Hr} \times 60 \text{ m}$	275 m ³ /Hr x 75	393 m ³ /Hr x 40
Capacity:	x 92 kW	m x 92 kW	m x 75 kW
Pump Make:	Caprari	Caprari	Caprari
Date Installed	08-06-04	27-05-97	01-04-05



Cluny 217A



Cluny 217B



Cluny 217C

- For Cluny 217A, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 70.7%.
- For Cluny 217B, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. There is no intersection between the system curve and theoretical pump curve. The efficiency of the pump at its operational point is 38.7%.
- For both the above sites, it is found that the delivery head of the pumps are overrated. Based on a pump efficiency of 70% and available motor rating would be 300 m 3 /Hr x 40 m x 52 kW
- For Cluny 217C, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 86.4%. The electrical motor of this pump is overrated. The recommended pump at the safe yield, based on a pump efficiency of 70% and available motor rating would be 300 m³/Hr x 40 m x 52 kW.

Gebert BH 667 (CEB Acc: 5C5964)

The Borehole characteristics are:

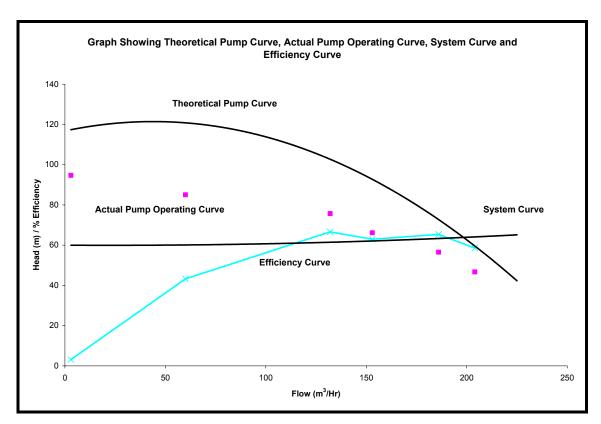
Borehole Depth: 82 m

Dynamic Water Level: 45 m

Maximum Borehole Production: 245m³/Hr

Installed Pump Hydraulic Capacity: 150 m³/Hr x 80 m x 45 kW

Pump Make: Caprari Date Installed: 24-03-99



The theoretical pump curve of this pump was not available, the suggested alternative pump curve by the supplier shows that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. However, the intersection between the system curve and the actual pump operating curve is within the range of the safe yield. The efficiency of the pump at its operational point is 58.6%. Based on a pump efficiency of 70% and available motor rating a pump of rating 150 m³/Hr x 60 m x 37 kW is recommended

Nouvelle France BH 725 (CEB Acc:5C6940)

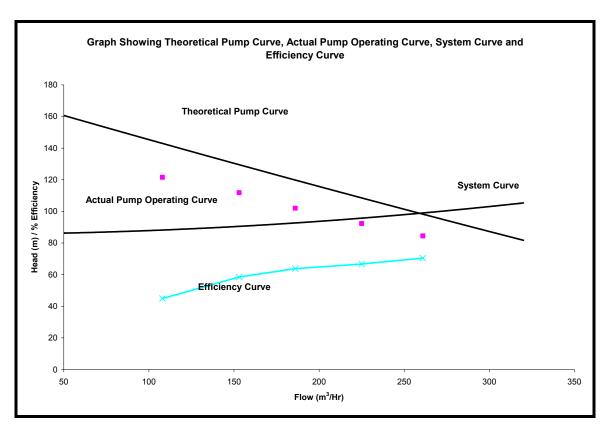
The Borehole characteristics are:

Borehole Depth: 76.74 m Dynamic Water Level: 54 m

Safe Yield: 267 m³/Hr

Installed Pump Hydraulic Capacity: 252 m³/Hr x 100 m x 92 kW

Pump Make: Caprari Date Installed: 19-11-01

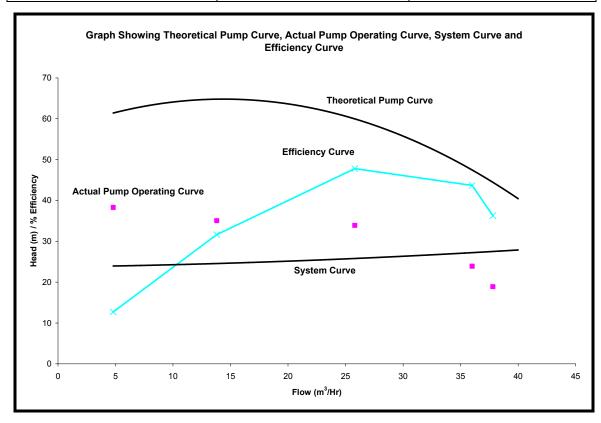


Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 70.4%. This pump is correctly rated and performing efficiently.

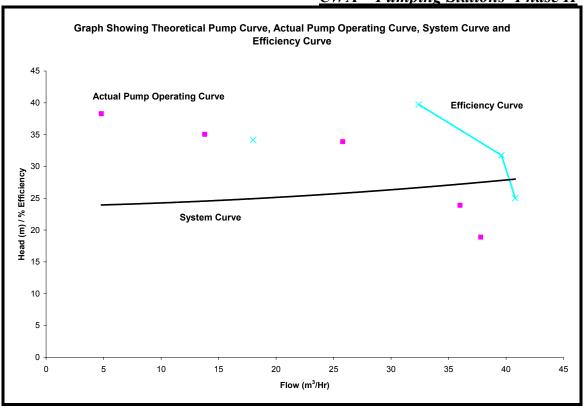
Mon Desert Mon Tresor - Plaisance BH 548 A & B (CEB Acc: 5C6067)

This site has two boreholes which are being operated simultaneously:

	BH 548A	BH548B
Borehole Depth:	30.48 m	30.13 m
Dynamic Water Level:	19 m	20 m
Safe Yield:	30 m ³ /Hr	30 m ³ /Hr
Installed Pump Hydraulic Capacity:	30 m ³ /Hr x 50 m x 7.5 kW	45 m ³ /Hr x 40 m x 7.5 kW
Pump Make:	Caprari	Rovatti
Date Installed:	25-04-00	14-03-02



MDMT 548A



MDMT 548B

- For MDMT548A, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. There is no intersection between the system curve and theoretical pump curve. The efficiency of the pump at its operational point is 31.6%.
- For MDMT 548B, the theoretical pump curve is not available. The efficiency of the pump at its operational point is 25%.
- For both the above sites, it is found that the delivery head of the pumps are overrated. Based on a pump efficiency of 70% and available motor rating the required pump would be 30 m³/Hr x 30 m x 5.5 kW

2.42 Analysis for MAV - Upper system

Alma BH 316A (CEB Acc: 3C7476)

The Borehole characteristics are:

Borehole Depth: 40 m

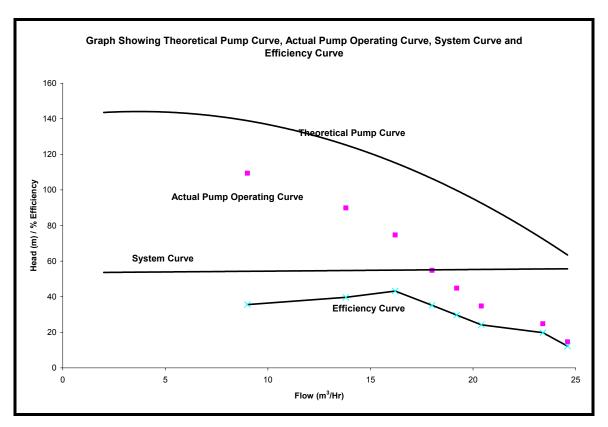
Dynamic Water Level: 32 m

Safe Yield: 25 m³/Hr

Installed Pump Hydraulic Capacity: 20 m³/Hr x 90 m x 7.5 kW

Pump Make: Super D

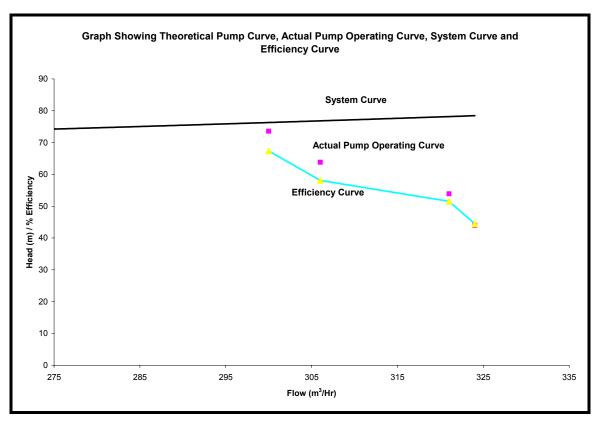
Date Installed: 14-04-97



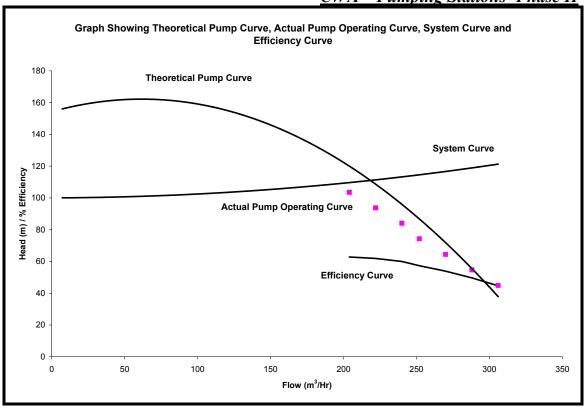
Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above the safe yield. The efficiency of the pump at its operational point is 39.6%. Based on a pump efficiency of 70% and available motor rating a pump of rating 25 m³/Hr x 60 m x 5.5 kW is recommended

Beard BH 715 & 828 (CEB Acc:4C6761)

	BH 715	BH828
Borehole Depth:	60m	117 m
Dynamic Water Level:	43.1m	83.59 m
Safe Yield:	250m³/Hr	209 m ³ /Hr
Installed Pump Hydraulic Capacity:	250m ³ /Hr x 85m x 92 kW	210 m ³ /Hr x 110 m x 92 kW
Pump Make:	KSB	Caprari
Installed Date:	10-06-05	19-11-01



Beard 715

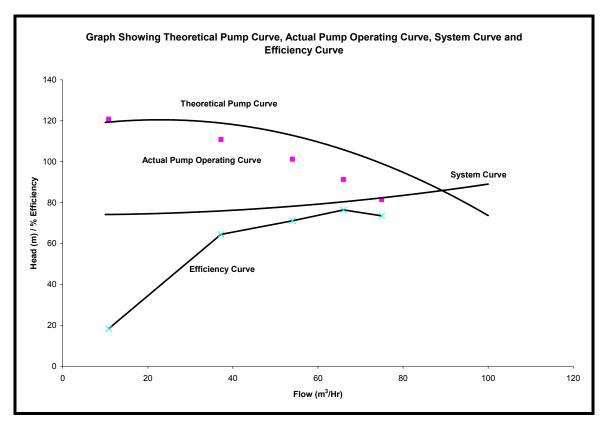


Beard 828

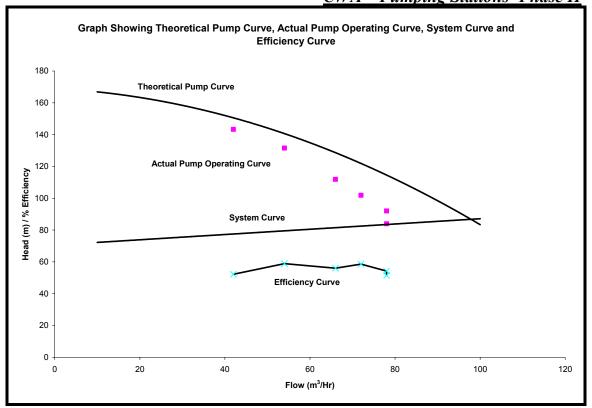
- For Beard 715, the theoretical pump curve is not available. This site has been continuously producing above 250 m³/Hr without any drop in water level. The efficiency of the pump at its operational point is 58.6%.
- For Beard 828 it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 44.7%. This borehole has been continuously producing above 209 m³/Hr without any drastic drop in water level.

Bonne Veine BH 623 & 619 (CEB Acc:5C6275)

	BH 623	BH 619
Borehole Depth:	50.6 m	52 m
Dynamic Water Level:	9.35 m	7.71 m
Safe Yield:	96 m ³ /Hr	114 m ³ /Hr
Installed Pump Hydraulic Capacity:	70 m ³ /Hr x 100 m x 30 kW	90 m ³ /Hr x 100 m x 37 kW
Pump Make:	Caprari	Saer
Date Installed	10-01-02	13-10-05



B Veine 623

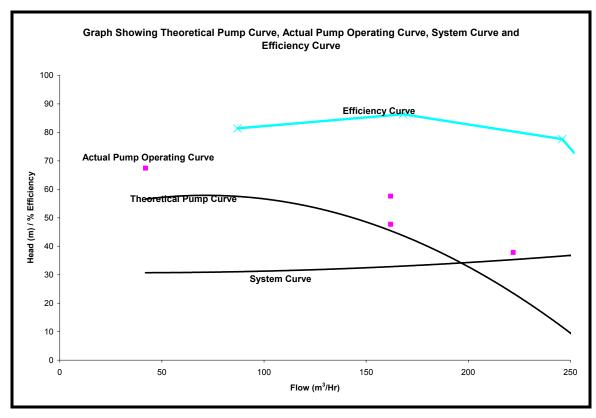


B Veine 619

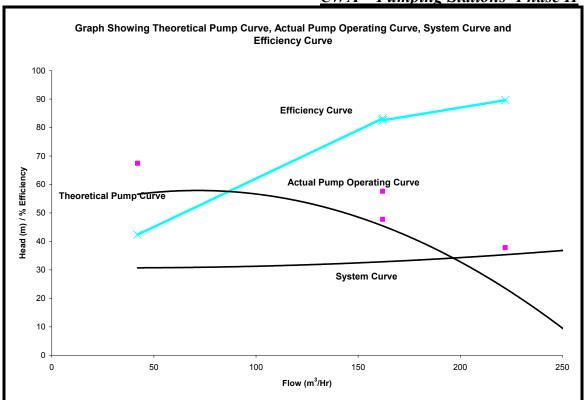
- For Bonne Veine 623, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 73.5%.
- For Bonne Veine 619, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 54.5%.

Montee Du Fil BH 488A & 488C (CEB Acc:4C3082)

	BH 488A	BH 488C
Borehole Depth:	48.1 m	42 m
Dynamic Water Level:	23.5 m	24.4 m
Safe Yield:	348 m ³ /Hr	348 m ³ /Hr
Installed Pump Hydraulic Capacity:	394 m ³ /Hr x 38.5 m x 85 kW	175 m ³ /Hr x 40 m x 26 kW
Pump Make:	British Pleuger	Caprari
Date Installed	Year 88	21-07-00



Montee Du Fil 488A



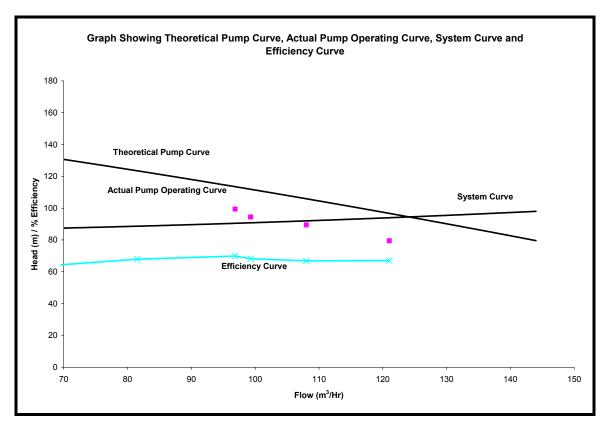
Montee Du Fil 488C

- For Montee Du Fil 488A, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 52.9%.
- For Montee Du Fil 488C, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. Moreover, the intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 88%.

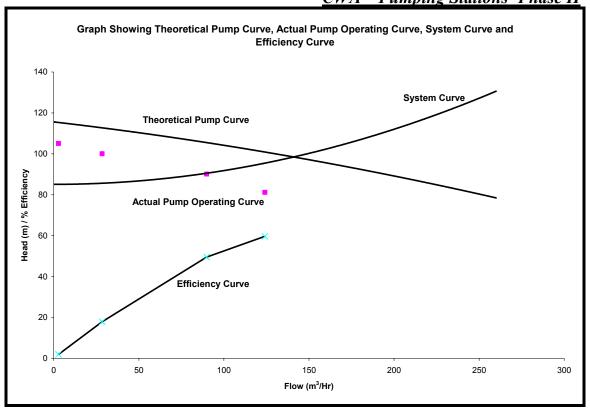
2.43 Analysis for MAV – Lower system

Bambou Eau Bonne BH 247A (CEB Acc:3C4041)

	BH 247A	BH247B
Borehole Depth:	23.8 m	26.3 m
Dynamic Water Level:	12 m	13 m
Safe Yield:	120 m ³ /Hr	160 m ³ /Hr
Installed Pump Hydraulic Capacity:	125 m ³ /Hr x 100 m x 55 kW	275 m ³ /Hr x 75 m x 75 kW
Pump Make:	Rovatti	Caprari
Date Installed	24-04-03	03-09-02



247-A



247-B

- For Eau Bonne 247-A, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 68.2%.
- For Eau Bonne 247-B, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 59.7%. This pump is however overrated and the recommended pump, based on a pump efficiency of 70% and available motor rating is 160 m³/Hr x 90 m x 56 kW

Barkly (Herchenroeder) BH 664 (CEB Acc: 3C5878)

The Borehole characteristics are:

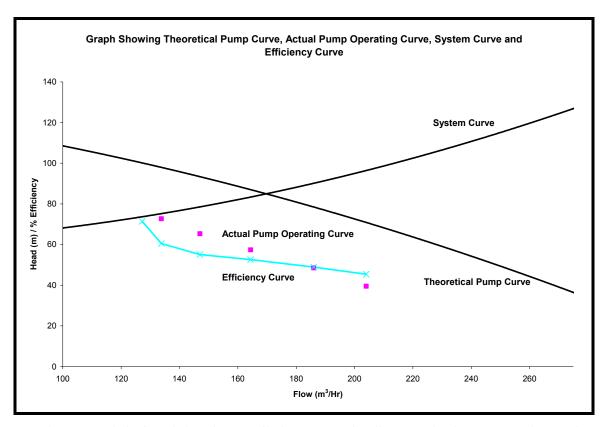
Borehole Depth: 72 m

Dynamic Water Level: 49 m

Safe Yield: 250 m³/Hr

Installed Pump Hydraulic Capacity: 180 m³/Hr x 80 m x 51 kW

Pump Make: Caprari Date Installed: 04-11-04



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The theoretical yield of 250m³/Hr is rarely achieved. The production has been around 180m³/Hr. The intersection between the system curve and theoretical pump curve is near the yield of 180m³/Hr. The efficiency of the pump at its operational point is 45.4%. Based on a pump efficiency of 70% and available motor rating a pump of rating 180 m³/Hr x 80 m x 42 kW is recommended.

Barkly Swimming Pool BH 501 (CEB Acc:3C3223)

The Borehole characteristics are:

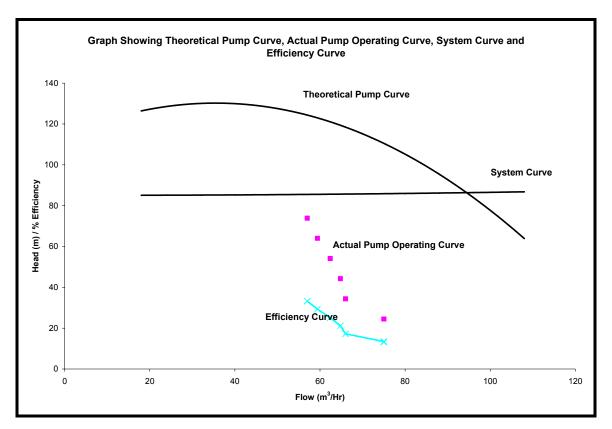
Borehole Depth: 44 m

Dynamic Water Level: 32.88 m

Safe Yield: 90 m³/Hr

Installed Pump Hydraulic Capacity: 90 m³/Hr x 100 m x 37 kW

Pump Make: Caprari Date Installed: 14-05-05

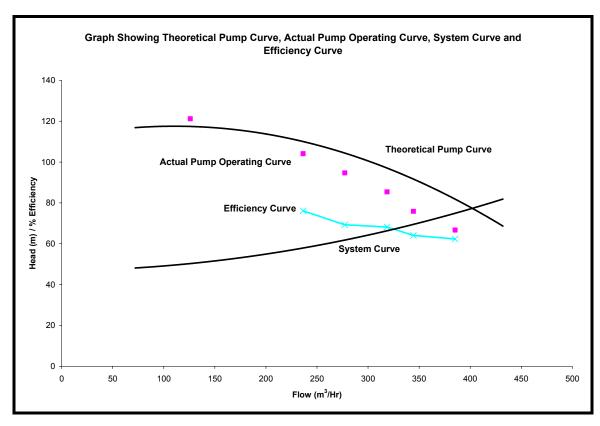


Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating on its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 13.2%. Based on a pump efficiency of 70% and available motor rating a pump of rating 90 m³/Hr x 90 m x 32 kW is recommended.

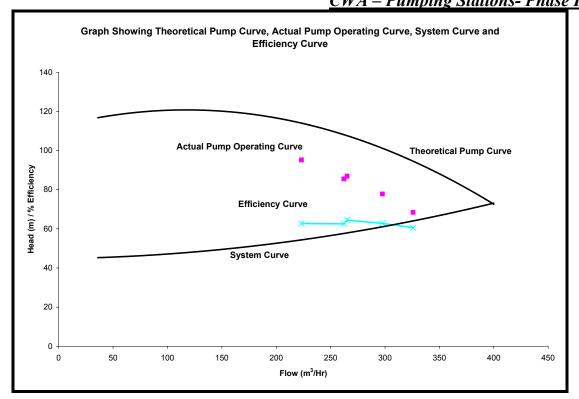
Bassin BH 432 A & B (CEB Acc:7C3894), 717(CEB Acc:7C3798)

This site has four boreholes which are used in parallel. The Borehole characteristics are:

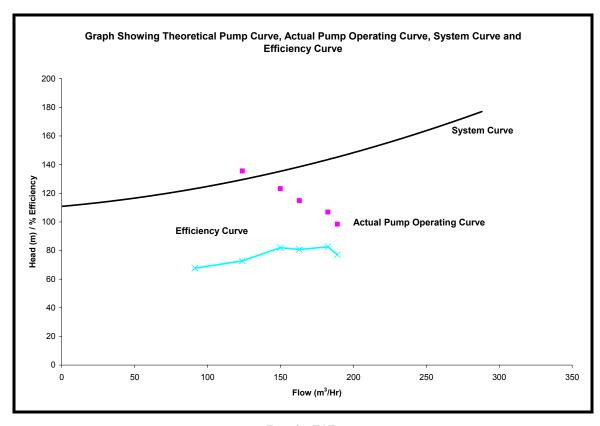
	BH 432A	BH432B	BH 717
Borehole Depth:	53.6 m	54.1 m	143m
Dynamic Water	33.3 m	31.29 m	61.62 m
Level: Safe Yield:	330 m ³ /Hr	330 m ³ /Hr	191 m ³ /Hr
	2	2	3
Installed Pump	$393 \text{ m}^3/\text{Hr} \times 74$	350 m ³ /Hr x 72 m x 110 kW	300 m ³ /Hr x 100 m x 92
Hydraulic Capacity:	m x 110 kW	XIIUKW	kW
Pump Make:	Caprari	Caprari	Caprari
Date Installed:	28-10-05	22-09-06	4-10-05



Bassin 432A



Bassin 432B



Bassin 717

- For Bassin 432A, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 64%.
- For Bassin 432B, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 62.5%. This pump has been overrated to compensate the head required to operate in parallel with Bassin 432A, Bassin 435 and Bassin 717.
- For Bassin 717, the theoretical pump curve is not available. The efficiency of the pump at its operational point is 77%.

Chamarel BH 796 (CEB Acc: 7090003261(5))

The Borehole characteristics are:

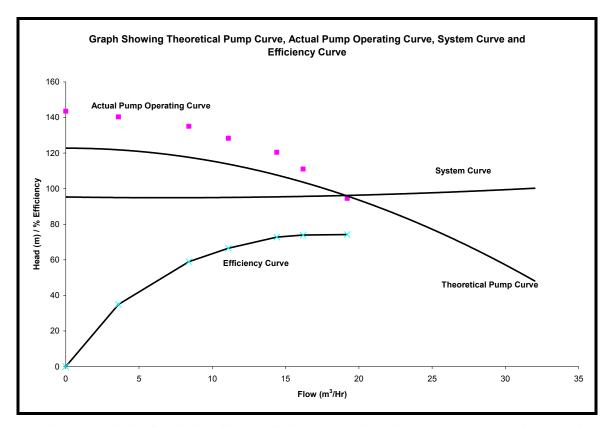
Borehole Depth: 87 m

Dynamic Water Level: 46 m

Safe Yield: 18.7 m³/Hr

Installed Pump Hydraulic Capacity: 21 m³/Hr x 87 m x 7.5 kW

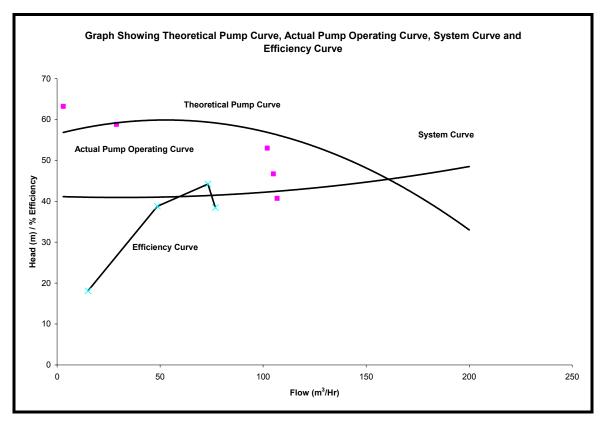
Pump Make: Caprari Date Installed: 23-01-06



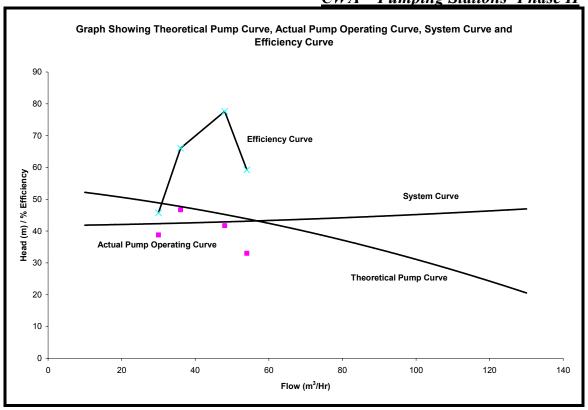
Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 74.2%.

Clairfonds BH 176A & 176C (CEB Acc:4C1520)

	BH 176A	BH176C
Borehole Depth:	48.7 m	45.7 m
Dynamic Water Level:	30.7 m	36.9 m
Safe Yield:	90 m ³ /Hr	90 m ³ /Hr
Installed Pump Hydraulic	$180 \text{ m}^3/\text{Hr} \times 40 \text{ m} \times 26 \text{ kW}$	90 m ³ /Hr x 30 m x 11 kW
Capacity:		
Pump Make:	Caprari	Caprari
D + I + 11 1	20.07.05	04.00.05
Date Installed	20-07-05	04-08-05



Clairfonds 176A

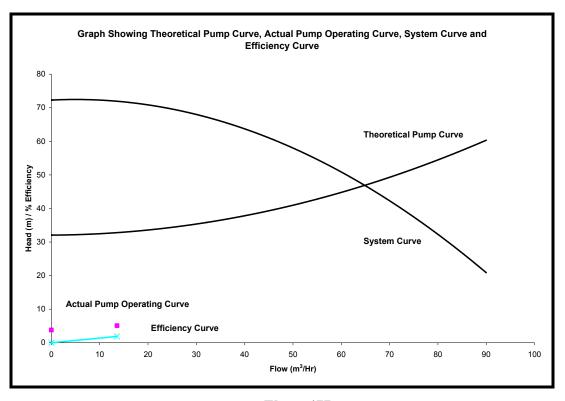


Clairfonds 176C

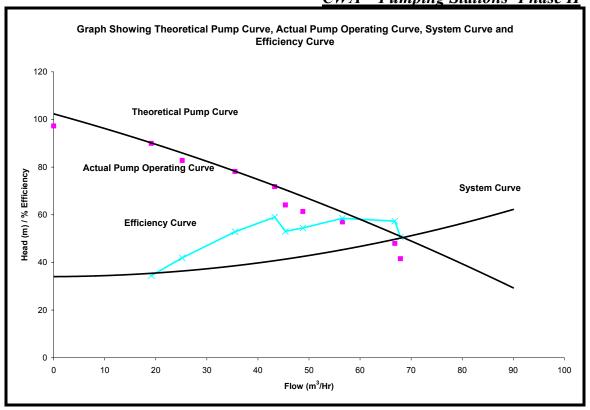
- For Clairfonds 176A, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 38.4%. This pump is overrated and the recommended pump, based on a pump efficiency of 70% and available motor rating is 90 m³/Hr x 50 m x 22 kW
- For Clairfonds 176C, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 59.2%.

Ebene BH 477 & 659 (CEB Acc: 7C4864)

	BH 477	BH659
Borehole Depth:	48.7 m	51.5m
Dynamic Water Level:	38 m	40 m
Safe Yield:	60 m ³ /Hr	60m ³ /Hr
Installed Pump Hydraulic Capacity:	55m ³ /Hr x 45 m x 11 kW	60m ³ /Hr x 46 m x 13 kW
Pump Make:	Caprari	Caprari
Date Installed	19-12-98	19-12-96



Ebene 477

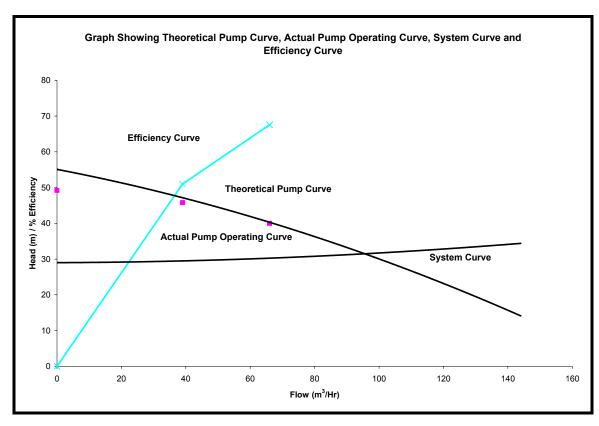


Ebene 659

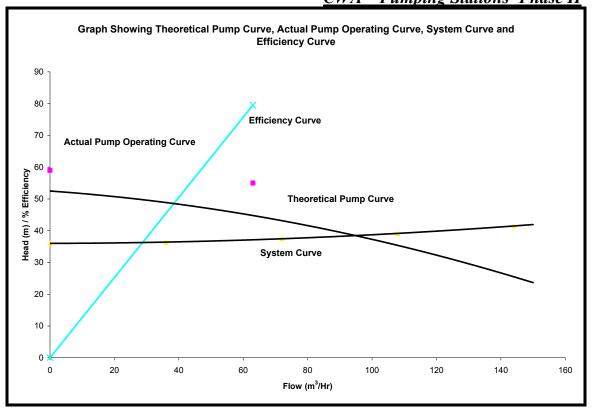
- For Ebene 477, it is found that the Installed Pump Hydraulic Capacity was not performing at all. It has been replaced by a new pump of make Saer and rated at 55 m³/Hr x 70 m x 13 kW. The delivery head of this newly Installed Pump Hydraulic Capacity is overrated. The required pump for this borehole is 60 m³/Hr x 40 m x 11kW.
- For Ebene 659, it is found that the pump is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 50.7%.

Highlands BH 392 A & B (CEB Acc: 7C3694)

	BH 392A	BH3 92B
Borehole Depth:	36.12 m	38.1 m
Dynamic Water Level:	22.2 m	32.6 m
Safe Yield:	92 m ³ /Hr	92 m ³ /Hr
Installed Pump Hydraulic Capacity:	100 m ³ /Hr x 30 m x 11 kW	90 m ³ /Hr x 40 m x 15 kW
Pump Make:	Caprari	Caprari
Date Installed:	02-11-00	19-11-03



Highlands 392A



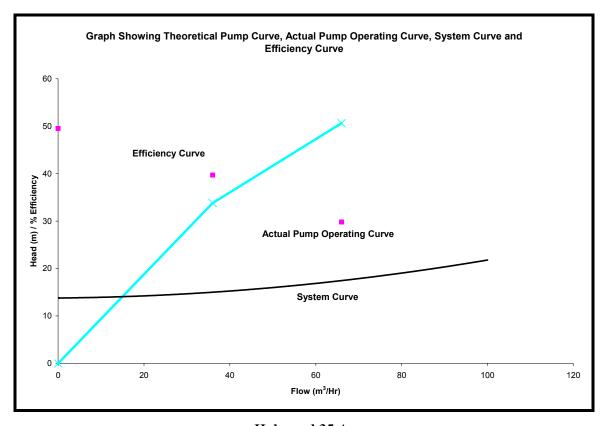
Highlands 392B

- It is found that the pump installed on Highlands 392A is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 67.6%.
- The pump for Highlands 392B is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 79.5%.

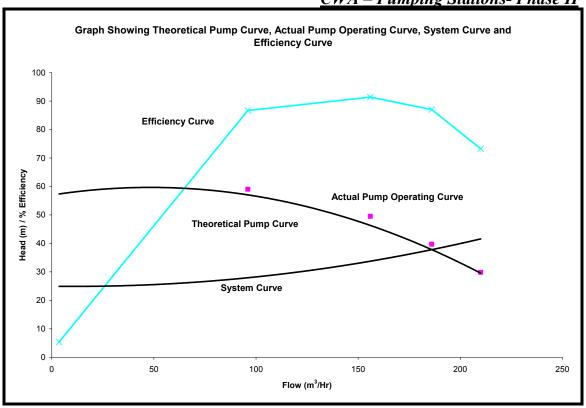
Holyrood BH 35 A, B, D, E & 947(CEB Acc: 7C1530)

This site has five boreholes which are used in parallel. The Borehole characteristics are:

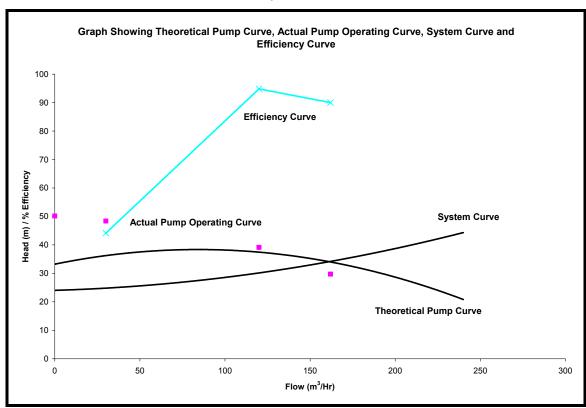
	BH 35A	BH35B	BH 35D	BH 35E
Borehole Depth:	35.9 m	36.7 m	39.6m	73m
Dynamic Water Level:	19.4 m	16.22 m	19.1 m	16.08 m
Safe Yield:	90 m ³ /Hr	180 m ³ /Hr	180 m ³ /Hr	310 m ³ /Hr
Installed Pump	$90 \text{ m}^3/\text{Hr x } 43$	$180 \text{ m}^3/\text{Hr x } 37$	$180 \text{ m}^3/\text{Hr}$	$180 ext{ m}^3/\text{Hr}$
Hydraulic Capacity:	m x 21 kW	m x 26 kW	x 30 m x 22 kW	x 40 m x 26 kW
Pump Make:	KSB	Caprari	Caprari	Caprari
Date Installed:	12-08-94	31-01-06	22-11-99	10-11-04



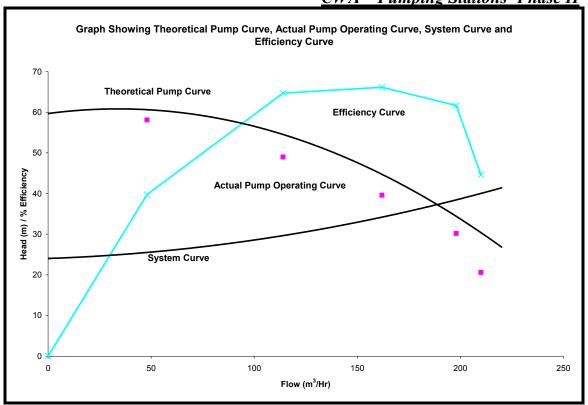
Holyrood 35 A



Holyrood 35 B



Holyrood 35D



Holyrood 35E

- The theoretical pump curve for this site is not available. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 50.6%.
- The pump for Holyrood 35B is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 73.2%.
- The pump for Holyrood 35D is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield.
 The efficiency of the pump at its operational point is 90.2%.
- The pump for Holyrood 35E is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 61.6%.

Holyrood BH 826 (CEB Acc: 7C1530)

The Borehole characteristics are:

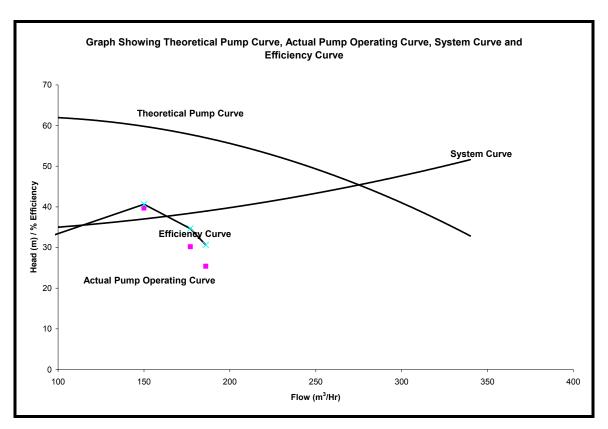
Borehole Depth: 102 m

Dynamic Water Level: 27.57 m

Safe Yield: 243 m³/Hr

Installed Pump Hydraulic Capacity: 300 m³/Hr x 34 m x 45 kW

Pump Make: Caprari Date Installed: 25-11-99



Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 30.6%. The recommended pump, based on a pump efficiency of 70% and available motor rating is 250 m 3 /Hr x 40 m x 45 kW

Holyrood BH 947 (CEB Acc: 7C1530)

The Borehole characteristics are:

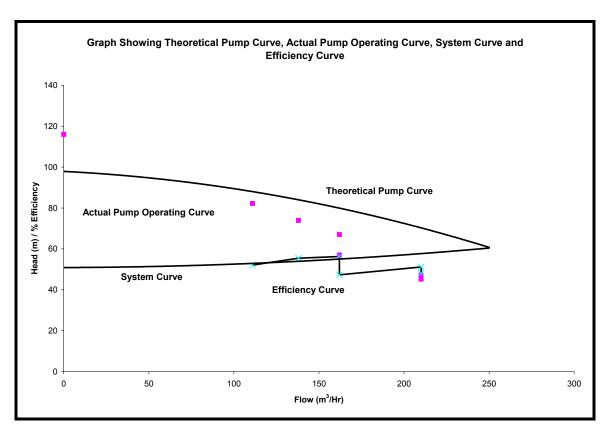
Borehole Depth: 87 m

Dynamic Water Level: 32.46 m

Safe Yield: 220 m³/Hr

Installed Pump Hydraulic Capacity: 230 m³/Hr x 66 m x 55 kW

Pump Make: Caprari Date Installed: 23-10-04

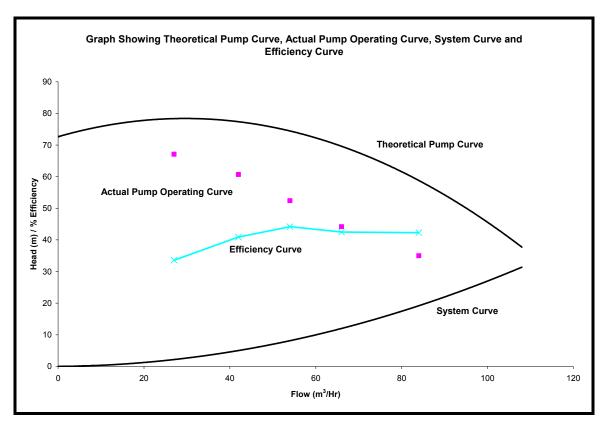


Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 51.2%.

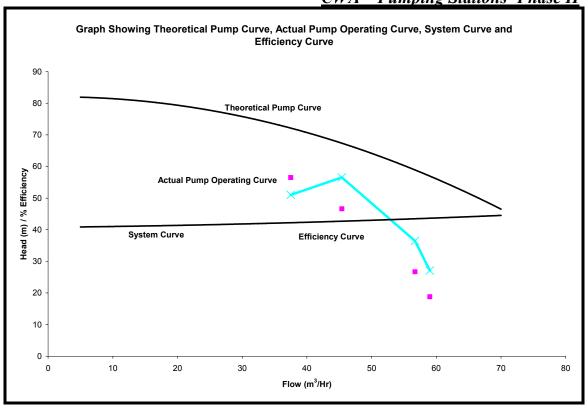
Bassin 435 & Palma BH 73(CEB Acc: 7C1831)

The Borehole characteristics are:

	BH 435	BH 73
Borehole Depth:	58 m	36.5 m
Dynamic Water Level:	44 m	16.8 m
Safe Yield:	90 m ³ /Hr	135 m ³ /Hr
Installed Pump Hydraulic Capacity:	90 m ³ /Hr x 54 m x 22 kW	55 m ³ /Hr x 60 m x 13 kW
Pump Make:	Caprari	Jetspa
Date Installed:	18-06-04	14-03-00



Bassin 435



Palma 73

- It is found that the Pump for Bassin 435 is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 42.3%. this pump has been oversized so that it can be operated in parallel with the pump installed at Palma BH 73
- It is found that the pump for Palma 73 is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 54.4%.

Palmyre BH 26B (CEB Acc: 7C4198)

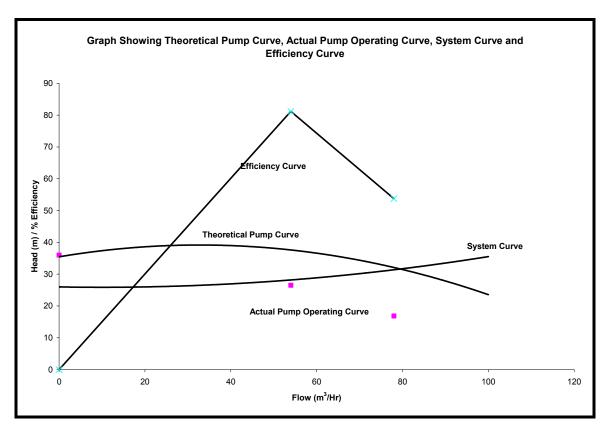
The Borehole characteristics are:

Borehole Depth: 36.58 m Dynamic Water Level: 16 m

Safe Yield: 66 m³/Hr

Installed Pump Hydraulic Capacity: 90 m³/Hr x 26 m x 9.2 kW

Pump Make: Caprari Date Installed: 19-08-04



Palmyre 26B

Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 53.7%.

Palmyre BH 419 (CEB Acc:7130001303-6)

The Borehole characteristics are:

Borehole Depth: 37 m

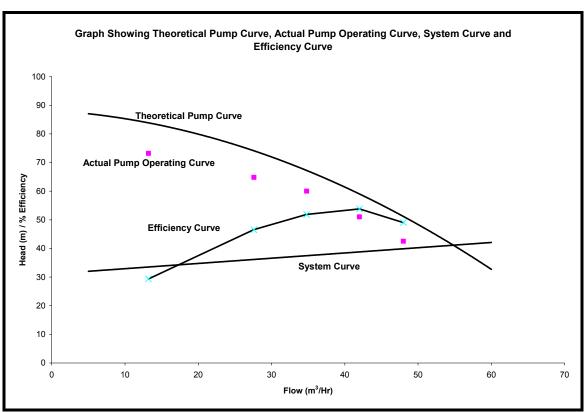
Dynamic Water Level: 23 m

Safe Yield: 54 m³/Hr

Installed Pump Hydraulic Capacity: 40 m³/Hr x 55 m x 11 kW

Pump Make: Super D

Date Installed: 15-05-97



Palmyre 419

Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 53.8%.

Palmyre BH 827 (CEB Acc:7C7469)

The Borehole characteristics are:

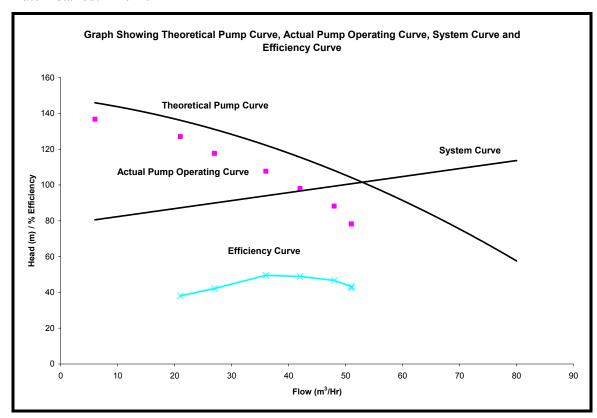
Borehole Depth: 117 m

Dynamic Water Level: 69.5 m

Safe Yield: 60 m³/Hr

Installed Pump Hydraulic Capacity: 55 m³/Hr x 110 m x 26 kW

Pump Make: Rovatti
Date Installed: 22-02-02



Palmyre 827

Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 49.7%.

Solferino BH 403 (CEB Acc: 7C6567)

The Borehole characteristics are:

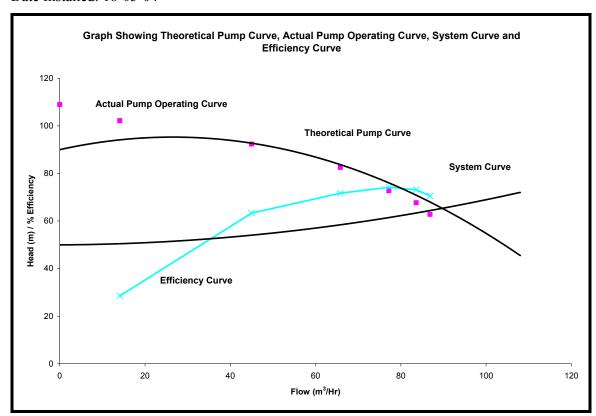
Borehole Depth: 37.4 m

Dynamic Water Level: 23 m

Safe Yield: 70 m³/Hr

Installed Pump Hydraulic Capacity: 70 m³/Hr x 58 m x 22 kW

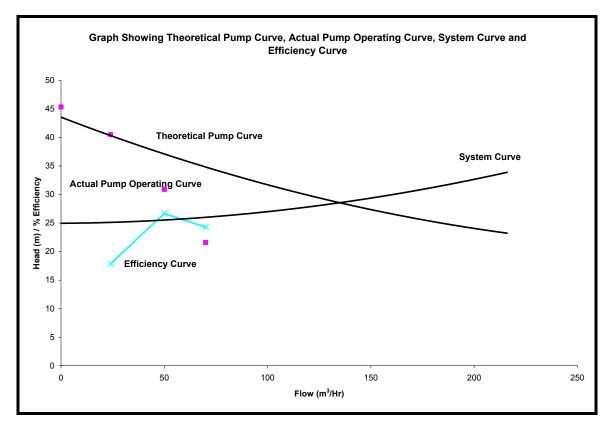
Pump Make: Caprari Date Installed: 18-05-04



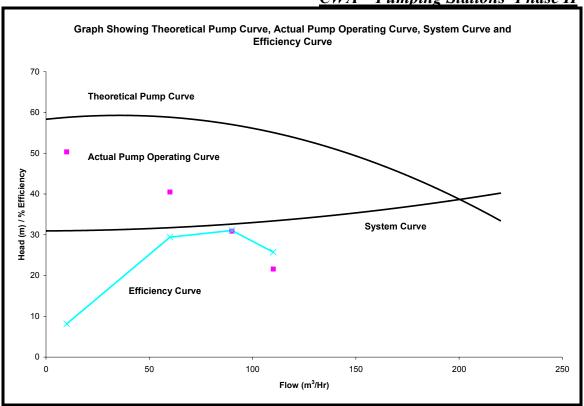
Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 73.2%.

<u>Project – Energy Auditing, Management & Efficiency at</u> <u>CWA – Pumping Stations- Phase II</u> Solferino Dookhun BH 359A & 359B (CEB Acc: 7C1529)

	BH 359A	BH 359B
Borehole Depth:	34.25 m	38. m
Dynamic Water Level:	30.85 m	24.69 m
Safe Yield:	162 m ³ /Hr	162 m ³ /Hr
Installed Pump Hydraulic Capacity:	108 m ³ /Hr x 32 m x 19 kW	200 m ³ /Hr x 35 m x 30 kW
Pump Make:	British Pleuger	Caprari
Date Installed:	21-01-88	09-11-97



Solferino Dookhun BH 359A



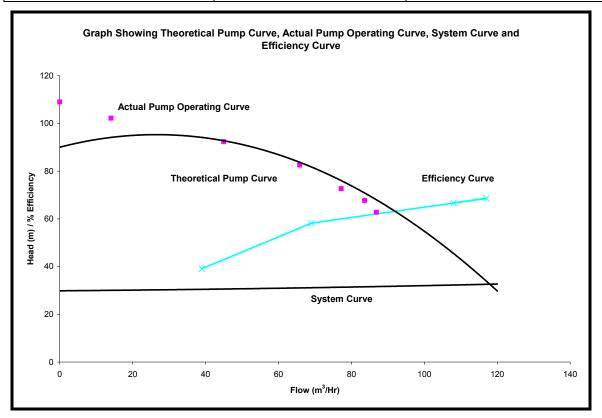
Solferino Dookhun BH 359B

Based on tests,

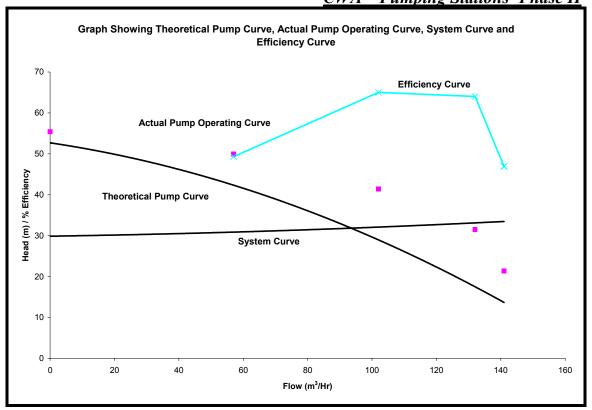
- For Solferino Dookhun 359A, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 24.3%. The required pump for this borehole based on a pump efficiency of 70% and available motor is 160 m³/Hr x 40 m x 22kW.
- For Solferino Dookhun 359B, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 25.7%. The required pump for this borehole based on a pump efficiency of 70% and available motor is 160 m³/Hr x 40 m x 22kW.

St Paul BH 153A & 153D (CEB Acc: 4C1120)

	BH 153A	BH 153D	
Borehole Depth:	36.6 m	37.4 m	
Dynamic Water Level:	23.5 m	29.2 m	
Safe Yield:	102 m ³ /Hr	102 m ³ /Hr	
Installed Pump Hydraulic Capacity:	125 m ³ /Hr x 30 m x 18.6 kW	125 m ³ /Hr x 35 m x 18.5 kW	
Pump Make:	Hyward Tylor	Caprari	
Date Installed:	19-02-94	01-03-02	



St Paul 153A



St Paul 153D

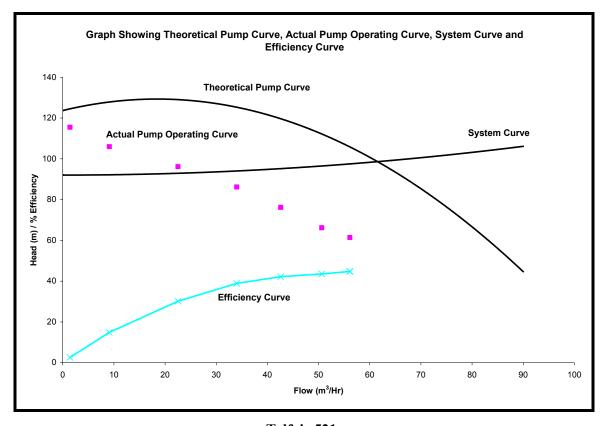
Based on tests,

- For St Paul 153A, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 66.7%.
- For St Paul 153D, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 65%.

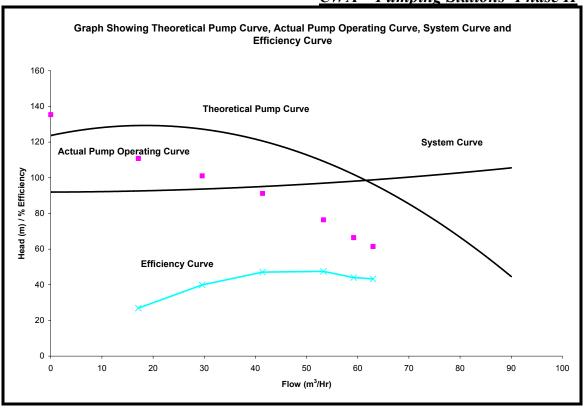
Telfair BH 521(CEB Acc: 3C3811)

This site has two boreholes which operate in parallel and the Borehole characteristics are:

	BH 521	BH 531	
Borehole Depth:	50 m	43.15 m	
Dynamic Water Level:	29 m	29 m	
Safe Yield:	60 m ³ /Hr	60 m ³ /Hr	
Installed Pump Hydraulic Capacity:	55 m ³ /Hr x 100 m x 22 kW	72 m ³ /Hr x 100 m x 30 kW	
Pump Make:	Caprari	Caprari	
Date Installed:	28-09-00	05-03-99	



Telfair 521



Telfair 531

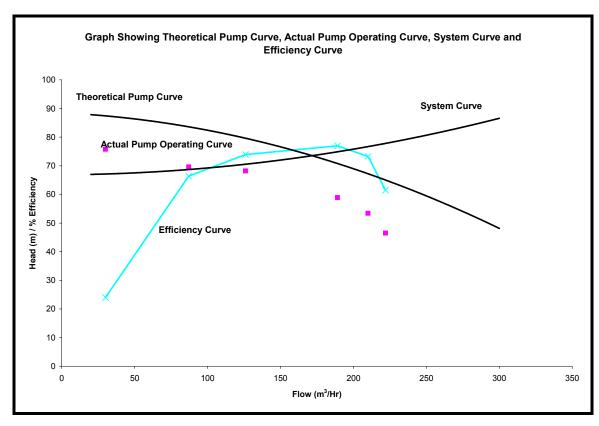
Based on tests,

- For Telfair 521, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 44.8%. The required pump for this borehole based on a pump efficiency of 70% and available motor is 60 m³/Hr x 100 m x 22kW.
- For Telfair 531, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 43.4%. The required pump for this borehole based on a pump efficiency of 70% and available motor is 60 m³/Hr x 100 m x 22kW.

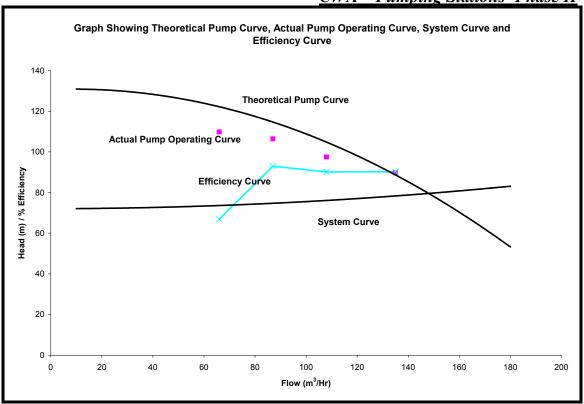
Trianon BH 738 & 903 (CEB Acc: 7C7418)

This site has two boreholes separated by a distance of 800 m and are operated in parallel. The Borehole characteristics are:

	BH 738	BH 903
Borehole Depth:	118.5 m	113 m
Dynamic Water Level:	42.9 m	55.7 m
Safe Yield:	246 m ³ /Hr	130 m ³ /Hr
Installed Pump Hydraulic Capacity:	250 m ³ /Hr x 60 m x 59 kW	135 m ³ /Hr x 80 m x 45 kW
Pump Make:	Caprari	Caprari
Date Installed:	11-11-99	09-11-04



Trianon 738



Trianon 903

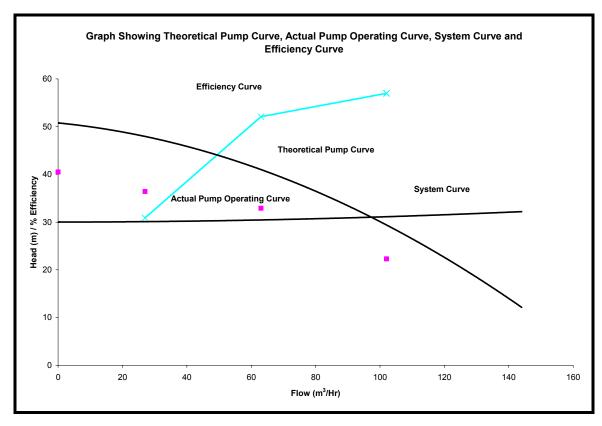
Based on tests,

- For Trianon 738, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 61%.
- For Trianon 903, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 90%.

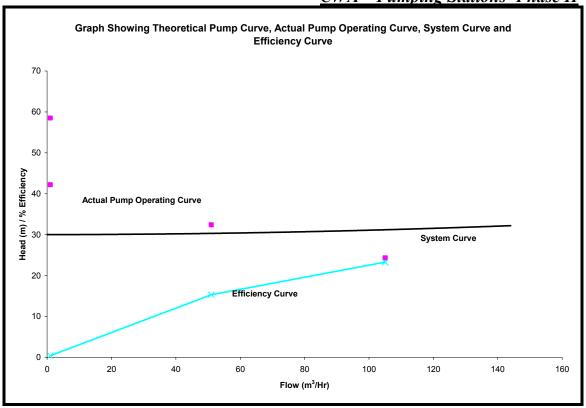
Valentina (Lower) BH 390 & 390A (CEB Acc:7C4896)

This site has two boreholes and only one is used at a time. The Borehole characteristics are:

	BH 390	BH 390A	
Borehole Depth:	36 m	39.4 m	
Dynamic Water Level:	6.8 m 6.86 m		
Safe Yield:	116 m ³ /Hr	65 m ³ /Hr	
Installed Pump Hydraulic Capacity:	100 m ³ /Hr x 30 m x 11 kW	182 m ³ /Hr x 37 m x 30 kW	
Pump Make:	Caprari	British Pleuger	
Date Installed:	14-10-02	18-12-87	



Valentina 390



Valentina 390A

Based on tests,

- For Valentina 390, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is below the safe yield. The efficiency of the pump at its operational point is 57%.
- For Valentina 390A, the theoretical pump curve is not available. This pump is being replaced by the Central Water Authority due to old age.

Valentina BH 733 (CEB Acc:7C7352)

The Borehole characteristics are:

Borehole Depth: 57 m

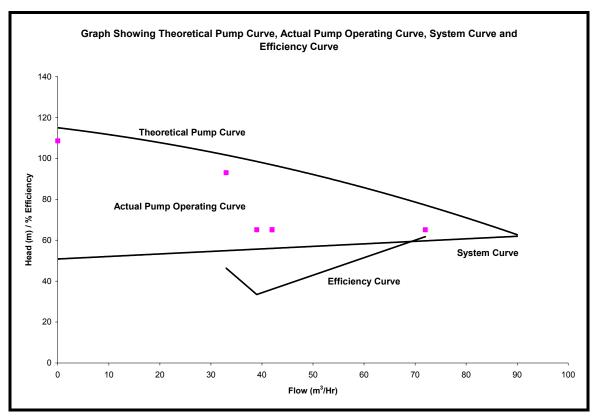
Dynamic Water Level: 34.2 m

Safe Yield: 78 m³/Hr

Installed Pump Hydraulic Capacity: 80 m³/Hr x 70 m x 22 kW

Pump Make: Jetspa

Date Installed: 01-10-99



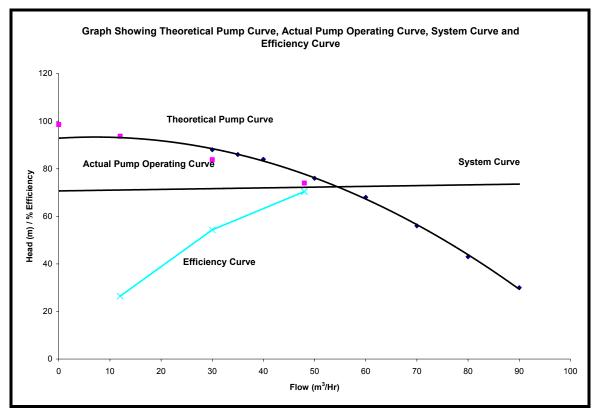
Valentina 733

Based on tests, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is well above safe yield. The efficiency of the pump at its operational point is 61.8%.

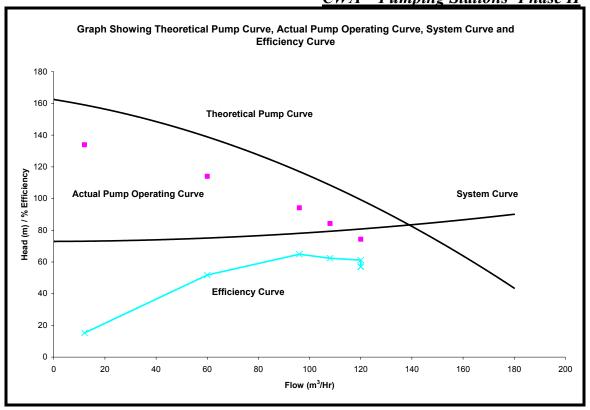
Yemen BH 594B & 569C (CEB Acc: 7C5296)

This site has two boreholes. Only one borehole is used at a time and the Borehole characteristics are:

	BH 594B	BH 569C
Borehole Depth:	23.5 m	24.86 m
Dynamic Water Level:	8.15 m	3.67 m
Safe Yield:	55 m ³ /Hr	96 m ³ /Hr
Installed Pump Hydraulic Capacity:	55 m ³ /Hr x 75 m x 15 kW	110 m ³ /Hr x 100 m x 45 kW
Pump Make:	Caprari	Rovatti
Date Installed:	16-05-00	01-11-05



Yemen 594 B



Yemen 569C

Based on tests,

- For Yemen 594B, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near the safe yield. The efficiency of the pump at its operational point is 57%.
- For Yemen 569C, it is found that the Installed Pump Hydraulic Capacity is not operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is above the safe yield. The efficiency of the pump at its operational point is 70.4%.

Yemen BH 853 (CEB Acc: 7C6567)

The Borehole characteristics are:

Borehole Depth: 19 m

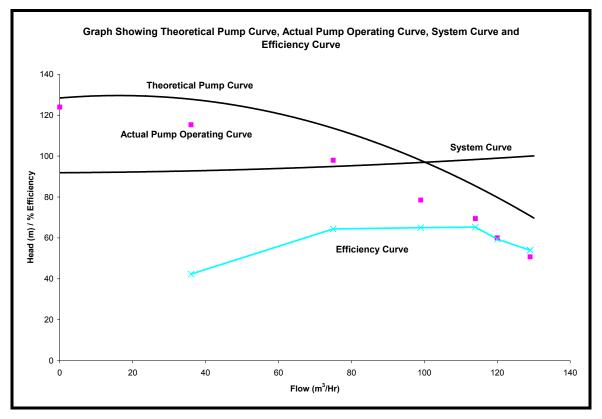
Dynamic Water Level: 9.31 m

Safe Yield: 110 m³/Hr

Installed Pump Hydraulic Capacity: 110 m³/Hr x 100 m x 37 kW

Pump Make: Saer

Date Installed: 27-10-05



Based on tests, it is found that the Installed Pump Hydraulic Capacity is operating near its theoretical pump curve. The intersection between the system curve and theoretical pump curve is near safe yield. The efficiency of the pump at its operational point is 65.3%.

Summary of Results

3.1 Introduction.

This chapter relates to a summary of findings observed at Chapter 2 and the calculation of the energy savings that can be realized.

3.2 Pumps requiring replacement but with no expected energy savings.

Based on the pumping tests carried out on the different submersible pumps being used at the Central Water Authority (CWA) all pumps, having an efficiency of below 50% at its operational point, have been recommended for replacement. The replacement of these pumps will not lead directly to energy savings but their outputs (flow & head delivered) will increase and it will bring additional revenue to the CWA.

Pumps having the required hydraulic rating, but having an oversized motor and also a low pumping efficiency have been included in this list. The replacement of these pumps will not lead to energy savings despite the motor power rating being oversized by a single step of available motors; such electrical consumption of this oversized motor is comparable to the correct sized motor.

It is also included in this list the oversized standby pumps. Although, the replacement pump is smaller in size, no expected savings is derived from these as the original pump has not been in use.

These concerned sites are given hereunder:

a) M&E (North)

Ser No	Site	BH No	Installed Pump Capacity (m³/hr x m x kW)	Installed Pump Make/Origin	Recommended Pump Capacity (m³/hr x m x kW)
1	Camp La Boue	SW26	20 x 75 x 5.6	Super D	25 x 80 x 15
2	Fond Du Sac (Forbach)	743	240 x 60 x 55	Rovatti	260 x 70 x 70
3	Mapou	558	75 x 75 x 20	Caprari	65 x 85 x 22

b) M&E (South)

Ser No	Site	BH No	Installed Pump Capacity (m³/hr x m x kW)	Installed Pump Make/Origin	Recommended Pump Capacity (m³/hr x m x kW)
1	Barkly BH	664	180 x 80 x 51	Caprari	180 x 80 x 42
2	Ebene	477	55 x 70 x 13	Saer	60 x 40 x 11
3	Clairfonds	176A	180 x 40 x 26 kW	Caprari	90 x 50 x 22
4	Solferino	359A	108 x 32 x 19 kW	British	160 x 40 x 22
	(Dookhun)			Pleuger	
5	Telfair	521	55 x 100 x 22 kW	Caprari	60 x 100 x 22
6	Telfair	531	72 x 100 x 30 kW	Caprari	60 x 100 x 22

3.3 Replacement of oversized Pumps

From the analysis done at chapter 2, it was also observed that certain submersible pumps are oversized with regard to the hydraulic capacity. The sizing of the pump has been done based on the system curve of the distribution line and the safe yield of the borehole. The replacement of these pumps will reduce the electrical consumption and thus it will make potential savings of electrical energy cost to the CWA. The expected savings cost is calculated using the following formula and is based on CEB Tariff 313 for maximum kVA demand for industrial consumers:

Annual Savings (Rs) = Savings on Active Billing + Savings on Maximum kVA Demand.

Savings on Active Billing = Power Savings (kW) x 24hrs x 365days x Rs 2.08per kWH

Savings on Maximum kVA Demand = (Power Savings (kW) / 0.8) x Rs105per kVA x 12Months

• The concerned pumps requiring replacement are given hereunder: -

M&E (North)

Ser No	Site	BH No	Installed Pump capacity (m³/hr x m x kW)	Recommended Pump capacity (m³/hr x m x kW)	Expected Power Savings (kW)	Expected Annual Savings (kWh)	Expected Annual Savings (Rs)
1	Beau Bois	825	50 x 150 x 30	40 x 100 x 18.5	11.5	100,740	227,651.70
2	Beau Bois	76B	20 x 91 x 11	15 x 80 x 7.5	3.5	30,660	69,285.30
3	St Martin	367B	120 x 90 x 45	120 x 50 x 26	19	166,440	376,120.20
4	Bois Mangues	12	60 x 70 x 22	50 x 60 x 15	7	61,320	138,570.60

Ser No	Site	BH No	Installed Pump capacity (m³/hr x m x kW)	Recommended Pump capacity (m³/hr x m x kW)	Expected Power Savings (kW)	Expected Annual Savings (kWh)	Expected Annual Savings (Rs)		
5	Haute Rive	391B	80 x 70 x 22	60 x 70 x 18.5	3.5	30,660	69,285.30		
6	La Clemence	692	60 x 70 x 22	50 x 60 x 15	7	61,320	138,570.60		
7	Morcellement	309A	45 x 40 x 11	45 x 40 x 7.5	3.5	30,660	69,285.30		
8	Morcellement	309B	25 x 40 x 9.2	46 x 40 x 7.5	1.7	14,892	33,652.86		
10	Camp Thorel	754	330 x 105 x 132	240 x 110 x 110	22	192,720	435,507.60		
11	Esp Trebuchet	537A	90 x 55 x 18.5	110 x 35 x 15	3.5	30,660	69,285.30		
12	Fond Du Sac	No1	100 x 95 x 30	72 x 80 x 22	8	70,080	158,366.40		
13	Poudre D'Or	752	306 x 70 x 75	270 x 60 x 65	10	87,600	197,958.00		
14	Poudre D'Or	123(i)	50 x60 x 15	60 x40 x 11	4	35,040	79,183.20		
15	Poudre D'Or	123(iii)	180 x40 x 26	120 x40 x 22	4	35,040	79,183.20		
16	Poudre D'Or	123(iv)	180 x40 x 30	180 x40 x 26	4	35,040	79,183.20		
17	Petite Retraite	, ,	275 x65 x 66	210 x40 x 32	34	297,840	673,057.20		
18	Petite Retraite		150 x80 x 45	210 x40 x 32	13	113,880	257,345.40		
19	Laventure	11A	20 x 90 x 18.5	30 x80 x 11 kW	7.5	65,700	148,468.50		
20	Bonne Mere	492A	275 x 75 x 75	275 x 60 x 66	9	78,840	178,162.20		
21	Bonne Mere	492B	275 x 75 x 75	275 x 60 x 66	9	78,840	178,162.20		
	Total Savings Envisaged 1,617,972 3,656,284.26								

M&E (South)

Ser No	Site	BH No	Installed Pump capacity (m³/hr x m x kW)	Recommended Pump capacity (m³/hr x m x kW)	Expected Power Savings (kW)	Expected Annual Savings (kWh)	Expected Annual Savings (Rs)
1		217A	300 x 60 x 92	300 x 40 x 52	40	350,400	791,832.00
2		217B	275 x 75 x 92	300 x 40 x 52	40	350,400	791,832.00
3	Cluny	217C	393 x 40 x 75	300 x 40 x 52	23	201,480	455,303.40
4	Gebert	667	150 x 80 x 45	150 x 60 x 37	8	70,080	158,366.40

Ser No	Site	BH No	Installed Pump capacity (m³/hr x m x kW)	Recommended Pump capacity (m³/hr x m x kW)	Expected Power Savings (kW)	Expected Annual Savings (kWh)	Expected Annual Savings (Rs)
5	Mon Desert Mon	548A	30 x 50 x 7.5	30 x 30 x 5.5	2	17,520	39,591.60
6	Tresor	548B	45 x 40 x 7.5	30 x 30 x 5.5	2	17,520	39,591.60
7	Eau Bonne No2	247B	275 x 75 x 75	160 x 90 x 56	19	166,440	376,120.20
8	Barkly SP	501	90 x 100 x 37	90 x 90 x 32	5	43,800	98,979.00
9	Solferino Dookhun	359B	200 x 35 x 30	160 x 40 x 22	8	70,080	158,366.40
		1,287,720	2,909,982.60				

3.4 Variable Speed Drives.

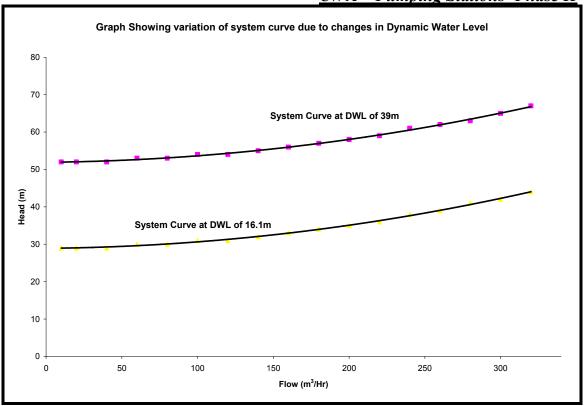
An ideal distribution system is such that a submersible supplies to a service reservoir and the latter feeds the distribution mains by gravity. However, this case is not always possible and the Central Water Authority has around 19 sites, whereby the submersible pump is connected directly in the distribution mains. In such cases, the System Curves vary due to additional restriction being added on the consumption at the end of the distribution line. For such cases, as described at 'chapter 1' additional energy savings can be done by using a variable speed drive (VSD) unit to operate the submersible pump. This operation is a closed loop control using a pressure feedback from a Pressure Transducer installed on the distribution line, i.e. the VSD will read the pressure in the distribution line and it will compensate any rise in pressure that occurs during the night, by running the submersible pump at a lower speed. Likewise, during the daytime the variable speed drive will run the submersible pump at a higher speed when the pressure on the distribution line falls.

The Variable Speed Drive will provide the following advantages:

- Reduced power consumption of the pump
- Reduced leakage (by running the submersible pump at a lower speed, and pressure)
- Increased lifetime of the submersible pump.

As per comments made at para 3.5 above and 1.10 in chapter 1, to cater for changes in the characteristic of the distribution line due to variation in Dynamic Water level. For instance, in wet season the Dynamic Water Level at Holyrood BH35E is 16.1m and it drops down to 39m in dry season. The System Curves for these two situations are given hereunder: -

<u>Project – Energy Auditing, Management & Efficiency at</u> <u>CWA – Pumping Stations- Phase II</u>



Under such situation, at a Dynamic Water Level of 16.1m, the installed submersible pump will deliver the rated flow, but when the Dynamic Water Level drops, in order to compensate the static head required, the flow (Q - m³/hr) will be lower. In order to avoid such situation, and have maximum exploitation of the borehole, it s recommended to oversize the hydraulic capacity of the submersible pump. Thus, it is recommended to use a Variable Speed Drive fitted to the existing submersible pump. During wet season, the submersible pump is made to run at a lower speed and during dry season, when the Dynamic Water level drops, the pump speed is then accelerated to compensate the additional required static head.

However, this proposal needs to be fully investigated by an onsite test as and when the water level drops down; the borehole yield is expected to decrease. The contribution of the Water Resources Unit shall is required to assist the proposed test.

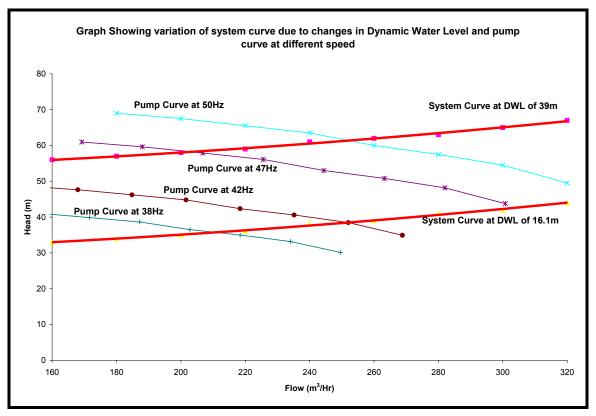
3.5 Calculation for over sizing of pump to compensate drop in Dynamic Water Level

Pump Manufacturers recommend that a submersible pump shall not be operated at a speed frequency lower than 35Hz so that cooling of the electric motor is not affected. Thus, the pump is designed to work at a frequency of 35Hz during wet seasons. A typical example is Holyrood BH 35E.

At a DWL of 16.1m the recommended pump capacity is 180 m³/hr x 40m at 35 Hz

Using laws of Affinity, the recommended pump becomes 260 m³/hr x 60m at 50Hz.

The variation of the pump curve rated at 260 m³/hr x 60m (Caprari E10S64-2A) running at different speeds is shown below:



The different sites recommended for operation with Variable Speed Drive are as follows:

• Sites pumping directly into the distribution mains are listed hereunder:-

Ser	Site Region Served		Ser	Site	Region Served	
No			No			
1	Cottage (New)	Surroundings	11	La Clemence	Surroundings	
	BH 564			BH 692		
2	Fond Du Sac	Grand Baie &	12	P D'Or No2	Surroundings	
	(Choisy) BH 643	Trou Aux Biches		BH 123 (ii)		
3	Mapou BH558	apou BH558 Surroundings		Solitude	Triolet (7 ^{eme}	
				BH 748	Mile)	

Ser	Site	Region Served	Ser	Site	Region Served
No			No		
4	Riche Terre	Surroundings	14	Laventure	Surroundings
	BH 36			BH 11A	
5	Camp Ithier	Surroundings	15	Gebert	Mare D'Albert
	BH 815			BH 667	
6	Choisy / Baie Du	Surroundings	16	Mon Loisir	Surroundings
	Cap BH 776			BH 720	
7	Barkly	Coromandel &	17	Schoenfeld	La Clemence &
	(Herchenroeder)	Beau Bassin		BH 337	Riviere Du
	BH 664				Rempart
8	Cottage (Poonith)	Surroundings	18	Caroline	Surrounding &
	BH 563A			BH44	Bel Air
9	Haute Rive	Riviere Du	19	Cluny No3	Riche En Eau
	BH 391	Rempart		BH 217C	
10	Barkly	Surroundings			
	(Swimming Pool)				
	BH 501				

• Sites experiencing severe drop in Dynamic Water Level are given below:-

Ser	Site	Ser	Site	Ser	Site
No		No		No	
1	Pierrefonds BH 712	8	Bassin Loulou Jamblon	15	L'Esperance
					Trebuchet
2	Beau Bois BH 76B	9	Camp La Boue BH	16	Haute Rive
			SW26		BH391
3	Labourdonnais BH551	10	Morcellement St Andre	17	Morcellement St
			BH117		Andre
					BH 309

Ser	Site	Ser	Site	Ser	Site
No		No		No	
4	P D'Or No 1, 3 & 4	11	Riche Terre BH36	18	Laventure BH11A
	BH 123 (i, iii, & iv)				
5	Barkly (Hercheroeder)	12	Bassin BH 432	19	Bassin BH717
	BH 664				
6	Holyrood -	13	Holyrood BH 947	20	Palmyre BH 827
	BH 35A, 35D & 35E				
7	Valentina BH 733	14	Yemen BH 853		

3.6 Benefit Cost Analysis of a Variable Speed Drive v/s Auto Transformer Starter.

Ser	Description	Auto Transformer Starter	Variable Speed Drive
No			
1	Start of Submersible	3 x Nominal Current	Ramp Start
	Pump		
2	Additional Equipment	Power Factor Corrector	Unity Power Factor at Input
	Required	required as inductive	of VSD
		components of starter leads	
		to low Power Factor	
3	Harmonic Distortion	Negligible	Expected to be high

3.7 Cost Analysis:

Ser No	VSD Capacity	Cost of VSD (Rs)	Cost of Autotransformer Starters C/W Power Factor
	(kW)		Correctors (Rs)
1	15	60,000.00	68,000.00
2	30	97,000.00	97,000.00
3	45	105,000.00	110,000.00
4	55	165,000.00	130,000.00
5	92	220,000.00	170,000.00

3.8 Sites to be operated with Variable Speed Drive:

As mentioned at para 1.11, direct operation of submersible pumps into the distribution mains using Variable Speed Drive will lead to energy savings. The energy savings will be derived from the following situations: -

- lower consumption and operation during the night
- Lower leakage while operation at lower speed during the night.

Based on the analysis of the night flow of these pumps, it is observed that certain sites record a flow reduction of the order of 10% of the rated flow. However, this analysis has been incomplete due to technical restriction while installing water flow loggers on discharge pipe of the submersible pumps.

The exact analysis on the savings based on reduction of leakage has not been possible but it is estimated to be around a minimum of 10-15% reduction in unaccounted water as per the Non Revenue Water Section of the CWA. The savings under this item is not included in this report but it shall be investigated by an onsite test.

- For this purpose, it is proposed to install a Variable Speed Drive unit of capacity 92 kW using a feedback control based on the pressure on the distribution line at Barkly BH 664. This site has been chosen for trial test as it operates directly onto the distribution line and the level of non revenue water is at 50% (rounded). For this site, it is also proposed to change the CEB meter, for an electronic meter with which, power monitoring will be easier.
- It is also recommended to install a submersible pump rated at 275 m³/hr x 75 m (available in stock at CWA) and use the same variable speed drive that shall be installed at Barkly BH 664, for the test on the variation of production and power consumption during the year at Holyrood BH 35E. This test shall also require appropriate hydrological studies by the WRU.

The proposed monitoring sheets for the above two (2) tests are given at **Annex** - $\mathbf{7}$ and **Annex** - $\mathbf{8}$.

Recommendation

4.1 Introduction.

This chapter relates to a summary of findings observed at Chapter 2 and 3 regarding the calculation of the energy savings that can be realized.

4.2 Investment required for replacement of pumps

From the findings done at para 3.3, the estimated savings based on reduction of the annual electrical consumption is **Rs 3,656,284.26**, i.e. 1,617,972 kWh for M&E (North) and **Rs 2,909,982.60** for M&E (South). The total savings amounts to **Rs 6,566,266.86**, i.e. 1,287,720 kWh which is equivalent to 5.71% of the Annual Electricity Budget (Rs 115M). This savings is envisaged based on the replacement of the oversized pumps as listed at para 3.3. The Central Water Authority has already engaged in the replacement of certain submersible pumps and the purchase is being done under the ongoing contract C2006/26 – Supply of Submersible Pumps & Accessories. Furthermore, it is also found that the available pumps within the CWA are not of appropriate capacity, and therefore it is required to purchase additional pumps. The required investment cost for the replacement of the required submersible pumps is listed hereunder: -

M&E (North)

		1		T =
Ser			Recommended Pump	Expected
No	Site	BH No	_, Capacity	Investment
110			(m³/hr x m x kW)	Cost (Rs)
1	Beau Bois	825	40 x 100 x 18.5	150,000
2	Beau Bois	76B	15 x 80 x 7.5	55,000
3	St Martin	367B	120 x 50 x 26	130,000
4	Bois Mangues	12	50 x 60 x 15	110,000
5	Haute Rive	391B	60 x 70 x 18.5	135,000
6	La Clemence	692	50 x 60 x 15	110,000
7	Morcellement	309A	45 x 40 x 7.5	60,000
	St Andre			00,000
8	Morcellement St Andre	309B	46 x 40 x 7.5	60,000
	Esperance			
9	Trebuchet	537A	110 x 35 x 15	105,000
10	Fond Du Sac	No1	72 x 80 x 22	150,000
11	Fond Du Sac	743	260 x 70 x 70	300,000
	(Forbach)	0		333,333
12	Poudre D'Or	752	270 x 60 x 65	300,000
13	Poudre D'Or No1	123(i)	60 x40 x 11	132,000

Ser No	Site	BH No	Recommended Pump Capacity (m³/hr x m x kW)	Expected Investment Cost (Rs)	
14	Poudre D'Or No3	123(iii)	120 x40 x 22	105,000	
15	Poudre D'Or No4	123(iv)	180 x40 x 26	160,000	
16	Petite Retraite	No1	210 x40 x 32	150,000	
17	Petite Retraite	No2	210 x40 x 32	150,000	
18	Laventure	11A	30 x 80 x 11	70,000	
19	Mapou	558	65 x 85 x 22	105,000	
20	Bonne Mere	492A	275 x 60 x 66	300,000	
21	Bonne Mere	492B	275 x 60 x 66	300,000	
Total Amount (Rs) 3,137,000					

M&E (South)

Ser No	Site	BH No	Recommended Pump Capacity (m³/hr x m x kW)	Expected Investment Cost (Rs)
1		217A	300 x 40 x 52	300,000
2	Cluny	217B	300 x 40 x 52	300,000
3		217C	300 x 40 x 52	300,000
4	Gebert	667	150 x 60 x 37	150,000
5	Barkly	664	180 x 80 x 42	150,000
6	Ebene	477	55 x 70 x 13	110,000
7	Holyrood	826	300 x 34 x 45	210,000
8	Mon Desert	548A	30 x 30 x 5.5	55,000
9	Mon Tresor	548B	30 x 30 x 5.5	55,000
10	Eau Bonne	247B	160 x 90 x 56	150,000
11	Solferino Dookhun	359A	160 x 40 x 22	105,000
12	Telfair	521	60 x 100 x 22	105,000
13	Telfair	531	60 x 100 x22	105,000
Total Amount (Rs) 2,095,00				2,095,000

The total investment cost for the purchase of submersible pumps is of the order of **Rs** 5,232.000.00 This investment cost is of the order of **Rs** 4,147,000 for replacement of oversized submersible pumps and **Rs** 1,085,000 for replacement of inefficient submersible pumps.

4.3 Purchase of Variable Speed Drives

As a trial basis, only one site at Barkly (Herchenroeder) BH 664 is recommended for operation using a variable speed drive. The investment cost required is around **Rs 350,000** for the purchase of a 92 kW Variable Speed Drive, Pressure Transducer and surge protectors. Thereafter, additional shall be required for the purchase of Variable Speed Drives for other sites.

4.31 Purchase of VSD for sites operating directly on the distribution mains.

Further to the test that shall be carried out at **Barkly (Herchenroeder) BH 664** as described at para **3.8** and the analysis for potential energy savings that can be envisaged, it shall be required to purchase Variable Speed Drives of the following capacities as detailed hereunder;

	M&E (North)				M&E (South)			
Ser No	Site	VSD Capacity (kW)	Estimated Cost (Rs)	Ser No	Site	VSD Capacity (kW)	Estimated Cost (Rs)	
1	Cottage (New) BH 564	45	115,000	1	Barkly Herchenroeder BH 664	75	200,000	
2	Fond Du Sac (Choisy) BH 643	45	115,000	2	Barkly Swimming Pool BH 501	45	115,000	
3	Mapou BH558	30	95,000	3	Choisy Baie Du Cap BH776	11	50,000	
4	Camp Ithier BH815	45	115,000	4	Gebert BH 667	45	115,000	
5	Cottage Poonith BH 563A	45	115,000	5	Cluny No3 BH 217C	56	170,000	
6	La Clemence BH 692	15	60,000	-	-	1	-	
7	Poudre D'Or No 2 BH 123(ii)	45	115,000	-	-	-	-	
8	Solitude BH 748	30	95,000	-	-	-	-	

	M&E (North)				M&E (South)			
Ser No	Site	VSD Capacity (kW)	Estimated Cost (Rs)	Ser No	Site	VSD Capacity (kW)	Estimated Cost (Rs)	
9	Laventure	20	75,000	-	-	-	-	
	BH 11A							
10	Mon	45	115,000	-	-	-	-	
	Loisir							
	BH720							
11	Schoenfeld	20	75,000	-	-	-	-	
	BH337							
12	Caroline	70	180,000	-	-	-	-	
	BH 44							
	Total Amount (Rs)		1,270,000		Total An	nount (Rs)	650,000	

The total cost for the purchase of VSD is of the order of Rs 1,920,000.

4.32 Purchase of VSD with associated accessories for sites experiencing severe drop in Dynamic Water Level

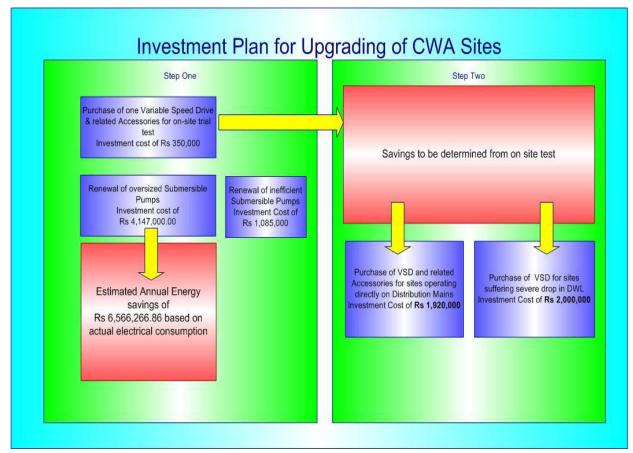
Further to the test to be carried out at Holyrood BH 35E, and the analysis of the results, it shall be required to purchase additional Variable Speed Drives and Oversized Submersible Pumps. The exact capacity of these equipments shall be determined based on the results that shall be obtained from the test. It is expected that the investment cost required for these 17 sites shall be around **Rs 2 Million**.

4.4 Investment Plan

Based on the study in the previous chapters, it is found that the potential energy savings will be **Rs 6,566,266.86** Additional savings is possible and it will be quantified by an on site study and test. This investment is required to pursue the next phase of this project and shall involve the following:

- Implementation of recommendations of the previous phases of the project
- Purchase of recommended submersible pumps as given at para4.2 and proceed with installation of same.
- Purchase of one (1) **92kW** Variable Speed Drive and accessories and installation for tests at Holyrood BH 35E and Barkly BH 664.

- Calculate savings based on
 - o reduction of electrical power during the night
 - o reduction of non revenue water
- Calculate ratings of equipments that shall be required and investment plan for phase II The investment plan that shall be required is given below:



Roughness size on the internal surface of pipes.

Pipe Material	Roughness Value
Ductile Iron and Cast Iron	0.3
Galvanized Iron	0.15
Steel and Asbestos cement	0.03
Smooth materials including PE pipes	0.003

S No	Site Name	2,004.00										Total 04		
	DWS- Port Louis	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	Beau Bois BH													_
	Beau Bois (New)													-
	Beau Bois													-
	Beau Songes													-
	Beau Songes													-
	Petite Riviere Pierrefonds													-
	St Martin													_
	St Martin													-
	DWS- NORTH													-
	B. Vue Mauricia	62,429.00	60,427.00	65,055.00	60,813.00	62,524.00	59,981.00	63,271.00	62,547.00	60,082.00	62,014.00	60,186.00	61,907.00	741,236.00
11 12	Bassin Loulou (Gallery) Bassin Ioulou (Jamblon)	44,351.00	51,322.00	59,552.00	65,313.00	63,270.00	63,398.00	67,471.00	69,093.00	70,391.00	75,809.00	35,000.00	37,200.00	702,170.00
	Bassin Ioulou (Robinson)	9.090.00	8,738.00	3,080.00	-	-	-	-	-	70,391.00	75,009.00	-	-	20,908.00
14	Beau Plateau	46,862.00	42,814.00	49,753.00	49,634.00	62,288.00	48,140.00	54,052.00	51,918.00	50,710.00	50,393.00	47,939.00	49,256.00	603,759.00
	Bois Mangues (Old P.de Papayes)	45,389.00	42,701.00	45,499.00	44,273.00	46,060.00	44,490.00	45,677.00	45,040.00	43,926.00	45,439.00	43,603.00	45,116.00	537,213.00
	Camp La Boue	14,171.00	12,908.00	13,463.00	11,546.00	12,180.00	13,403.00	13,413.00	14,446.00	14,073.00	14,835.00	15,368.00	12,613.00	162,419.00
17 18	Camp Thorel Cottage (New)	169,560.00 15,500.00	138,367.00 14,500.00	133,434.00 15,500.00	129,066.00 15,000.00	131,000.00 15,500.00	133,097.00 15,000.00	133,484.00 15,500.00	132,725.00 15,500.00	129,593.00 15,000.00	132,465.00 45,473.00	131,749.00 42,558.00	131,059.00 44,063.00	1,625,599.00 269,094.00
19	Cottage (New) Cottage- Poonith	74,873.00	70,680.00	68,232.00	60,017.00	62,919.00	62,990.00	64,378.00	60,436.00	54,991.00	59,690.00	57,111.00	56,927.00	753,244.00
	Esp.Trebuchet	-	-	-	-	3,119.00	9,112.00	-	19,765.00	60,946.00	84,045.00	65,608.00	57,185.00	299,780.00
21	F. Du Sac-Choisy	53,021.00	50,692.00	52,720.00	51,300.00	54,311.00	52,220.00	53,770.00	50,546.00	50,994.00	54,874.00	53,048.00	51,664.00	629,160.00
22	F. Du Sac-Choisy	54,391.00	51,224.00	50,705.00	49,290.00	52,992.00	54,567.00	58,010.00	54,764.00	51,808.00	48,852.00	47,917.00	41,436.00	615,956.00
23	F. Du Sac-forbach	122,200.00	127,320.00	136,080.00	143,810.00	124,000.00	109,820.00	115,630.00	115,900.00	108,990.00	113,580.00	109,010.00	112,220.00	1,438,560.00
24 25	Haute Rive La Clemence	42,662.00	42,935.00	47,013.00	45,377.00	47,135.00	45,398.00	45,376.00	44,636.00	40,024.00	34,992.00	41,011.00 -	42,254.00	518,813.00
26	Labourdonnais	23,543.00	24,472.00	24,733.00	27,940.00	29,065.00	28,100.00	28,669.00	29,013.00	27,655.00	28,102.00	26,273.00	25,380.00	322,945.00
27	Mapou	21,996.00	20,010.00	22,277.00	22,093.00	23,320.00	22,258.00	23,492.00	24,510.00	23,420.00	26,745.00	27,960.00	28,206.00	286,287.00
28	Mon Loisir	39,199.00	35,779.00	42,180.00	43,674.00	50,519.00	44,081.00	48,614.00	46,122.00	45,071.00	46,338.00	44,347.00	44,845.00	530,769.00
29	MSA BH 117	53,980.00	50,600.00	51,570.00	54,120.00	45,840.00	49,160.00	52,160.00	56,020.00	52,250.00	52,790.00	52,160.00	54,110.00	624,760.00
30	MSA BH 117	· ·	, ,	,		· ·	,	· ·	· ·	· ·			· ·	·
31 32	MSA BH 306 MSA BH 309	21,530.00	73,720.00	85,900.00	80,480.00	88,030.00	87,140.00	88,680.00	87,520.00	83,570.00	84,840.00	80,400.00	78,720.00	940,530.00
33	MSA BH 309	70,850.00	22,380.00	31,150.00	-	-	-	-	-	-	-	49,200.00	49,230.00	222,810.00
	P. Bon Espoir	141,626.00	139,684.00	151,304.00	142,018.00	151,642.00	147,442.00	156,304.00	159,983.00	150,837.00	150,879.00	133,019.00	136,697.00	1,761,435.00
35	P. D'Or (New)	133,300.00	124,700.00	133,000.00	129,000.00	133,000.00	129,000.00	133,300.00	133,300.00	129,000.00	133,300.00	129,000.00	133,300.00	1,573,200.00
36	P. D'Or No.1	37,531.00	37,588.00	39,261.00	38,198.00	12,107.00	635.00	-	39,146.00	34,278.00	38,883.00	33,149.00	35,908.00	346,684.00
	P. D'Or No.2	9,300.00	8,700.00	9,300.00	9,000.00	9,300.00	9,000.00	9,300.00 102,434.00	13,942.00	10,808.00	13,443.00	14,298.00	12,356.00	128,747.00
	P. D'Or No.3 P. D'Or No.4	102,474.00 102,936.00	96,344.00 96,258.00	104,287.00 105,832.00	104,922.00 109,920.00	25,166.00 124,762.00	73,478.00 133,548.00	140,321.00	117,430.00 132,155.00	113,699.00 117,725.00	111,029.00 117,447.00	104,213.00 97,560.00	101,305.00 109,914.00	1,156,781.00 1,388,378.00
	Petite Retraite	, i			, i		,	· 1		,	,	,	,	
	Petite Retraite	176,241.00	168,827.00	178,921.00	173,485.00	205,016.00	202,693.00	206,061.00	204,103.00	194,790.00	202,824.00	196,772.00	194,707.00	2,304,440.00
	Riche Terre	32,651.00	30,992.00	30,035.00	32,902.00	33,658.00	32,116.00	34,488.00	34,159.00	31,951.00	34,074.00	29,672.00	31,861.00	388,559.00
	Schoenfeld	59,823.00	90,524.00	96,332.00	91,322.00	97,639.00	95,605.00	107,518.00	94,930.00	91,606.00	92,642.00	89,545.00	91,892.00	1,099,378.00
44	Schoenfeld Solitude	36,251.00	, ,	· ·	,	2,902.00	,		,		,	,	43,208.00	137,141.00
45	DWS- EAST	30,251.00	28,165.00	-	-	2,902.00	-	-	-	-	-	26,615.00	43,208.00	137,141.00
46	B.Rose Clemencia no1	223,386.00	200,872.00	286,851.00	216,720.00	221,464.00	210,120.00	216,814.00	218,178.00	213,090.00	222,611.00	222,630.00	234,360.00	
	B.Rose Clemencia no2	110,887.00	119,084.00	192,487.00	117,540.00	131,037.00	80,790.00	125,426.00	126,294.00	126,000.00	127,689.00	107,760.00	114,266.00	1,479,260.00
	B.Rose Clemencia no3	112,499.00	81,788.00	94,364.00	99,180.00	90,427.00	129,330.00	91,388.00	91,884.00	87,090.00	94,922.00	114,870.00	120,094.00	1,207,836.00
	Bel Etang												31,458.00	31,458.00
	Bonne Mere	192,200.00	174,160.00	203,360.00	196,200.00	205,220.00	205,800.00	212,660.00	211,420.00	197,250.00	200,384.00	197,070.00	210,800.00	2,406,524.00
51 52	Bonne Mere Camp Ithier	43,400.00	39,200.00	39,680.00	39,000.00	40,300.00	39,000.00	40,300.00	40,920.00	42,000.00	43,648.00	44,880.00	45,260.00	497,588.00
53	Caroline				·									
54	Caroline	283,960.00	266,000.00	296,360.00	283,410.00	290,439.00	283,380.00	303,490.00	300,886.00	274,980.00	300,576.00	287,280.00	292,888.00	3,463,649.00
55	Constance BH No1	291,400.00	266,616.00	293,880.00	282,000.00	293,880.00	288,600.00	294,283.00	294,159.00	290,400.00	298,623.00	286,200.00	299,181.00	3,479,222.00
56 57	Constance BH No2	6,355.00	7,700.00	9,145.00	0.620.00	0.644.00	9,570.00	9,858.00	10,075.00	12,000,00	12,710.00	12,780.00	12,958.00	122,422.00
	Laventure Petit Paguet	0,355.00	1,100.00	স, I 4 5.00	9,630.00	9,641.00	9,570.00	უ,oეგ.UU	10,075.00	12,000.00	12,1 10.00	52,530.00	65,906.00	118,436.00
	SEASON PUMPING STATIONS (N)											32,000.00	55,555.00	-
	Melrose BH													-
	SOUTH													-
60	Choisy Baie du Cap New	2,108.00	2,268.00	1,891.00	2,370.00	2,449.00	2,400.00	2,418.00	2,370.00	2,449.00	2,430.00	2,480.00	2,511.00	28,144.00
	Bananes Café	99,572.00 39,401.00	34,804.00	42,098.00	38,370.00	37,572.00	39,390.00	30,225.00 40,455.00	40,269.00	64,790.00 40,300.00	88,140.00 37,980.00	87,330.00 36,510.00	92,132.00 38,967.00	462,189.00 466,116.00
	Cluny	33,401.00	34,004.00	42,000.00	30,370.00	37,372.00	00,000.00	40,400.00	40,203.00	40,000.00	37,300.00	30,310.00	30,307.00	400,110.00
	Cluny	730,484.00	651,028.00	644,304.00	663,900.00	691,021.00	657,750.00	670,034.00	676,575.00	717,929.00	693,120.00	694,320.00	734,979.00	8,225,444.00
65	Cluny	·	·	·					•	·	·			
66	Gebert	81,592.00	123,228.00	88,040.00	157,500.00	164,734.00	156,000.00	154,442.00	136,338.00	131,750.00	133,350.00	125,730.00	138,601.00	1,591,305.00
	M.D.M.T. Plaisance	21,421.00	19,992.00	18,662.00	20,730.00	23,033.00	21,090.00	21,917.00	23,250.00	23,498.00	21,150.00	22,110.00	21,638.00	258,491.00
68 69	M.D.M.T- Plaisance N. France (new)	147,467.00	140,476.00	132,773.00	174,030.00	179,893.00	167,010.00	165,757.00	157,139.00	152,427.00	148,080.00	129,930.00	136,121.00	1,831,103.00
	N. France (new)	1 77,707.00	1-10,770.00	102,770.00	174,000.00	173,033.00	107,010.00	100,707.00	107,109.00	102,721.00	1 10,000.00	120,000.00	100, 12 1.00	- 1,551,155.00
	Trois Boutiques	193,936.00	191,996.00	204,197.00	204,000.00	206,460.00	183,000.00	193,688.00	190,030.00	206,057.00	194,580.00	186,570.00	205,158.00	2,359,672.00
72	Trois Boutiques	·	·		·		·	·						-
	IAV UPPER	2 222 22	40.000.00	10/	1000	2 2 4 2 2 2	40.000.00	/= =====	10.055.55	40.055.55	4= 0== ==	10.000.00		
	Alma	9,920.00	12,908.00	4,247.00	1,830.00	8,649.00	10,680.00	17,732.00	16,399.00	16,050.00	15,870.00	13,020.00	14,725.00	142,030.00
	Beard (new)	205,964.00	189,627.00	201,748.00	201,090.00	207,514.00	202,200.00	208,444.00	205,344.00	200,880.00	203,484.00	198,960.00	201,810.00	2,427,065.00
	Bonne Veine BH no1	40.70:	6	00.045.55	00.055.55	60.05: 55	40 505 55	F0.05=	10.000	10 15 5	10.055.55	00.055.55		F0.4.000.00
	Bonne Veine BH no2	40,734.00	34,440.00	38,316.00	36,930.00	38,254.00	46,500.00	52,297.00	46,980.00	42,408.00	40,982.00	39,308.00	47,120.00	504,269.00
	Montee du Fil													
	Montee du Fil	147,095.00	132,496.00	146,661.00	137,280.00	146,630.00	140,490.00	154,101.00	124,620.00	117,810.00	126,666.00	123,330.00	126,294.00	1,623,473.00

DW6 I	AV LOWER			1	1			1			1	1	1		
	_													-	
	Bambou (Eau Bonne) BH No1 Bambou (Eau Bonne) BH No2	110,200.00	101,788.00	110,816.00	104,312.00	101,998.00	97,289.00	80,483.00	117,367.00	93,329.00	95,456.00	88,522.00	84,023.00	1,185,583.00	
_															
	Barkly (BH) Barkly (SP)	161,932.00	148,448.00	180,772.00	182,964.00	189,076.00	175,117.00	142,608.00	206,805.00	167,326.00	164,918.00	152,218.00	151,821.00	2,024,005.00	
	Bassin BH No 1														
	Bassin BH No2	256,652.00	184,800.00	204,600.00	198,000.00	204,600.00	198,000.00	204,600.00	204,600.00	198,000.00	204,600.00	198,000.00	204,600.00	2,461,052.00	
	Bassin 717														
	Bassin 435	70,198.00	64,349.00	81,393.00	84,466.00	73,796.00	62,303.00	50,892.00	59,052.00	41,638.00	99,851.00	100,574.00	91,711.00	880,223.00	
88	Chamarel BH	8.539.00	7.698.00	8.835.00	8,368.00	8,361.00	8,483.00	6,857.00	9.904.00	7.799.00	7,882.00	8,748.00	8,506.00	99,980.00	
89	Clairfonds BH No.1	-,	,		·	,	,	,	-,	,	·	· ·	·		
	Clairfonds BH No.2	64,257.00	71,037.00	95,469.00	100,775.00	39,397.00	28,143.00	31,321.00	99,106.00	87,315.00	98,365.00	86,368.00	75,685.00	877,238.00	
	Ebene BH No1														
	Ebene BH No2	43,370.00	39,626.00	34,836.00	48,138.00	46,205.00	43,922.00	33,298.00	51,345.00	42,631.00	43,673.00	38,957.00	36,684.00	502,685.00	
93	Highlands														
94	Highlands	26,350.00	20,748.00	25,110.00	26,970.00	30,039.00	31,440.00	24,738.00	34,193.00	29,910.00	34,689.00	30,720.00	35,464.00	350,371.00	
95	Holyrood													5,335,070.00	
96	Holyrood				506,255.00	494,846.00	498,026.00	390,774.00	560,685.00	457,453.00					
	Holyrood		ļ									395,432.00	321,955.00		
98	Holyrood														
99	Holyrood	387,256.00	352,935.00	478,420.00							491,033.00				
	Holyrood	1													
	Holyrood														
	Holyrood														
	Palma	52.380.00	49.036.00	54.335.00	31.852.00	_	_	53.543.00	53,000.00	52.344.00	53.977.00	51.819.00	55.790.00	508.076.00	
104	Palmyre 26B	37,641.00	33.075.00	50,790.00	79,500,00	46,895.00	51.999.00	44,097,00	53,651,00	49.315.00	51,149.00	45,358.00	37,353.00	580.823.00	
	Palmyre 419	36,172.00	32,792.00	38,989.00	38,164.00	37,982.00	35,984.00	30,039.00	44,145.00	35,385.00	36,623.00	35,122.00	33,387.00	434,784.00	
106	Palmyre (new) 827	23,291.00	21,228.00	28,566.00	30,222.00	29,543.00	27,519.00	22,769.00	31,975.00	25,185.00	26,173.00	24,792.00	23,011.00	314,274.00	
	Pont Fer (petit camp) BH No1	00,000,00	04.707.00	40,000,00	44.070.00	00 500 00	40 507 00	00,000,00	44 440 00	07.007.00	00.045.00	00.004.00	00,000,00	450.044.00	
108	Pont Fer (petit camp) BH No2	36,699.00	34,787.00	40,286.00	41,676.00	39,503.00	40,567.00	30,638.00	41,110.00	37,607.00	38,215.00	36,221.00	33,632.00	450,941.00	
109	Solferino BH	32,479.00	31,884.00	40,638.00	62,634.00	35,008.00	34,499.00	28,360.00	42,535.00	18,136.00	34,247.00	33,346.00	32,073.00	425,839.00	
110	Solferino Candos	119.746.00	104,393.00	120,974.00	114,366.00	146,812.00	158,132.00	118,399.00	165,106.00	129.477.00	133,942.00	127,396.00	121,445.00	1,560,188.00	
111	Solferino Candos	119,746.00	104,393.00	120,974.00	114,300.00	140,012.00	156, 152.00	110,399.00	165, 106.00	129,477.00	133,942.00	127,396.00	121,445.00	1,500,100.00	
112	Solferino Dookun	92,435.00	77,812.00	58,175.00	45,114.00	E1 1E0 00	86,643.00	71,417.00	109,083.00	88,755.00	115,145.00	61,785.00	68,438.00	925,952.00	
113	Solferino Dookun	92,435.00	77,012.00	56,175.00	45,114.00	51,150.00	00,043.00	71,417.00	109,063.00	00,755.00	115,145.00	01,765.00	00,430.00	925,952.00	
114	St Jean	39,961.00	34,831.00	41,637.00	41,068.00	40,789.00	39,019.00	32,045.00	47,011.00	37,627.00	37,409.00	30,136.00	17,608.00	439,141.00	
115	St Jean													-	
	St Paul BH No1	62.557.00	38,071.00	46.435.00	64.873.00	84,681.00	101.104.00	74,375.00	53,712.00	65.390.00	85,361.00	80,894.00	68.488.00	825,941.00	
	St Paul BH No2	02,557.00	02,557.00	36,071.00	46,435.00	04,673.00	04,001.00	101,104.00	14,515.00	33,7 12.00	00,380.00	00,301.00	00,094.00	00,400.00	025,941.00
	Telfair	60.853.00	78.064.00	85.374.00	82.140.00	83.886.00	74.834.00	73.346.00	64.914.00	60.030.00	59,489.00	58,290.00	59.675.00	840,895.00	
119	Telfair	00,033.00	70,004.00	00,074.00	02,140.00	05,000.00	77,007.00	70,040.00	04,314.00	00,030.00	33,403.00	30,230.00	39,073.00	040,033.00	
	Trianon	176,364.00	195,732.00	210,222.00	214,774.00	234,681.00	212,515.00	168,868.00	240,932.00	188,561.00	202,750.00	205,353.00	169,527.00	2,420,279.00	
	Trianon (New)	170,004.00	100,702.00	210,222.00	217,117.00	207,001.00	212,010.00	100,000.00	270,332.00	100,001.00	202,130.00	200,000.00	100,021.00	۷,۳۷۵,۷۱۵.00	
	Valentina (Lower Phoenix)	83,247.00	81,723.00	110,902.00	103,374.00	102,340.00	83,732.00	70,816.00	102,926.00	84,843.00	87,346.00	79,818.00	75,326.00	1,066,393.00	
	Valentina (Lower Phoenix)	· ·	· ·		, ,		· ·	, and the second	, ,	· ·			· ·		
	Valentina (new)	21,596.00	18,681.00	22,793.00	31,696.00	36,165.00	33,340.00	22,695.00	32,265.00	30,051.00	28,876.00	24,111.00	19,635.00	321,904.00	
	Yemen	103,304.00	97,932.00	30,345.00	111,528.00	115,943.00	109.814.00	77,264.00	150,533.00	109,940.00	113,188.00	111,068.00	109,206.00	1,240,065.00	
	Yemen(OLD)	, ,	, ,	·	,	,	,-	, and the second second	, ,	· ·	,		,		
127	Yemen New	35,031.00	55,300.00	63,430.00	78,129.00	66,900.00	70,410.00	57,690.00	88,950.00	69,920.00	85,500.00	81,580.00	77,630.00	830,470.00	
		7,320,503.00	6,753,446.00	7,408,934.00	7,442,467.00	7,447,622.00	7,281,241.00	7,160,180.00	7,856,322.00	7,356,703.00	7,749,635.00	7,398,145.00	7,461,152.00	88,636,350.00	

S No	Site Name											2,	005.00	Total 05
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	DWS- Port Louis Beau Bois BH	52,120.00	48.450.00	50,530.00	47,430.00	54,440.00	48.944.00	50,420.00	48,068.00	48,330.00	49,848.00	47,758.00	48.039.00	594,377.00
	Beau Bois (New)	59,120.00	54.710.00	56,340.00	53,370.00	55,430.00	53,050.00	54,460.00	57,110.00	51,100.00	52,240.00	51,710.00	52,480.00	651,120.00
	Beau Bois	50,12000	3 1,1 1 3 1 3	55,513155	33,01010	33,100.00	55,000.00	2 1,122122	01,110.00	3,,,,,,,,,,,,	5=,= :5:55	0.1,1.1313	52,100.00	-
	Beau Songes	180,854.00	53,564.00	-	-	-	86,940.00	130,665.00	176,545.00	184,680.00	143,933.00	195,630.00	179,428.00	1,332,239.00
	Beau Songes Petite Riviere					+			+					_
	Pierrefonds	93,806.00	51,184.00	-	-	-	-	35,030.00	14,010.00	72,030.00	80,290.00	123,300.00	95,263.00	564,913.00
	St Martin	105,741.00	78,988.00	67,394.00	35,910.00	56,580.00	65,100.00	104,129.00	100,830.00	104,191.00	106,609.00	104,820.00	108,221.00	1,038,513.00
9	St Martin DWS- NORTH	,.	,	,			55,155.55	,	,	,	,	701,020100	,	-
10	B. Vue Mauricia	62,133.00	56,557.00	65,951.00	65,883.00	67,219.00	62,335.00	64,456.00	64,933.00	51,834.00	64,164.00	61,268.00	44,886.00	731,619.00
11	Bassin Loulou (Gallery)	ĺ	·	ĺ	,	,	ĺ	ĺ	·	ĺ	·	ĺ	ĺ	-
	Bassin Ioulou (Jamblon)	46,364.00	48,871.00	74,693.00	77,846.00	84,740.00	78,633.00	80,989.00	76,427.00	80,364.00	75,627.00	70,717.00	72,087.00	867,358.00
	Bassin Loulou (Robinson) Beau Plateau	46,983.00	48,269.00	51,414.00	52,703.00	56,057.00	54,673.00	59,062.00	57,205.00	53,172.00	54,868.00	57,231.00	58,350.00	649,987.00
	Bois Mangues (Old P.de Papayes)	44,973.00	40,619.00	46,145.00	45,906.00	46,720.00	44,659.00	45,782.00	45,251.00	43,107.00	44,431.00	43,061.00	44,014.00	534,668.00
	Camp La Boue	9,075.00	6,667.00	5,392.00	5,096.00	4,529.00	4,880.00	12,952.00	5,583.00	5,721.00	6,875.00	6,276.00	5,144.00	78,190.00
17 18	Camp Thorel Cottage (New)	173,290.00 44,189.00	152,880.00 39,357.00	169,260.00 43,369.00	178,710.00 42,000.00	160,611.00 43,400.00	151,680.00 42,000.00	168,578.00 43,400.00	161,603.00 43,400.00	159,120.00 43,400.00	170,190.00 43,400.00	146,010.00 43,400.00	149,575.00 43,400.00	1,941,507.00 514,715.00
19	Cottage (New) Cottage- Poonith	54,966.00	53,671.00	71,144.00	72,086.00	63,611.00	52,263.00	52,426.00	61,748.00	57,828.00	59,827.00	57,923.00	61,359.00	718,852.00
	Esp.Trebuchet	49,739.00	54,195.00	78,700.00	-	-	-	-	85,180.00	81,935.00	78,825.00	65,704.00	50,110.00	544,388.00
	F. Du Sac-Choisy F. Du Sac-Choisy	52,652.00	38,918.00	41,690.00	46,500.00	53,291.00	49,074.00	45,006.00	53,085.00	51,435.00	52,439.00	51,323.00	48,797.00	584,210.00
22 23	F. Du Sac-Choisy F. Du Sac-forbach	47,627.00 125,750.00	36,412.00 122,920.00	36,018.00 153,000.00	22,972.00 148,670.00	41,981.00 158,598.00	45,262.00 155,700.00	46,500.00 160,948.00	47,023.00 143,695.00	41,685.00 141,590.00	29,871.00 145,420.00	44,533.00 139,950.00	48,837.00 143,294.00	488,721.00 1,739,535.00
24	Haute Rive	41,343.00	37,300.00	40,697.00	42,309.00	47,943.00	43,860.00	44,254.00	44,153.00	37,250.00	34,048.00	38,581.00	26,884.00	478,622.00
25	La Clemence	-	-	-	-		-	-	-	-	-	-	-	
26 27	Labourdonnais Mapou	24,693.00 25,871.00	23,139.00 26,782.00	30,265.00 30,739.00	29,027.00 31.046.00	27,748.00 31,226.00	23,468.00 29,658.00	24,622.00 29,985.00	22,389.00 30,513.00	23,482.00 28,990.00	28,304.00 29,479.00	26,107.00 28,690.00	26,301.00 29,308.00	309,545.00 352,287.00
	Mon Loisir	42,342.00	35,901.00	46,435.00	48,163.00	47,812.00	46,219.00	68,555.00	49,430.00	45,657.00	45,533.00	44,267.00	43,394.00	563,708.00
29	MSA BH 117	53,260.00	48,190.00	52,380.00	58,370.00	62,550.00	47,861.00	61,806.00	60,801.00	56,150.00	56,500.00	53,370.00	54,421.00	665,659.00
	MSA BH 117	, ,		,	,	· ·	,		· ·	, ,		,		· ·
	MSA BH 306 MSA BH 309	70,890.00	64,070.00	87,810.00	82,800.00	71,510.00	84,378.00	86,160.00	85,901.00	78,410.00	74,250.00	69,430.00	84,170.00	939,779.00 558,614.00
	MSA BH 309	50,240.00	45,400.00	44,590.00	46,610.00	56,510.00	42,872.00	29,827.00	53,092.00	49,680.00	43,040.00	44,470.00	52,283.00	-
	P. Bon Espoir	137,006.00	129,931.00	164,193.00	162,280.00	159,046.00	143,158.00	146,598.00	144,765.00	137,825.00	141,686.00	134,817.00	123,787.00	1,725,092.00
	P. D'Or (New) P. D'Or No.1	133,300.00 27,654.00	120,400.00 22,962.00	133,300.00 31,052.00	129,000.00 38,445.00	133,300.00 29,959.00	129,000.00 33,436.00	133,300.00 35,948.00	133,300.00	129,000.00 27,270.00	133,300.00 33,792.00	129,000.00 31,059.00	133,300.00 26,398.00	1,569,500.00 337,975.00
	P. D'Or No.2	11,891.00	9,724.00	12,252.00	13,808.00	9,798.00	-	-	-	-	33,792.00	31,059.00	20,398.00	57,473.00
	P. D'Or No.3	93,916.00	81,625.00	101,559.00	114,677.00	92,297.00	114,730.00	116,182.00	111,922.00	102,853.00	104,032.00	96,755.00	97,230.00	1,227,778.00
	P. D'Or No.4 Petite Retraite	104,719.00	86,483.00	113,970.00	129,539.00	125,108.00	144,452.00	138,942.00	132,893.00	118,786.00	113,479.00	109,440.00	108,285.00	1,426,096.00 2,447,661.00
	Petite Retraite Petite Retraite	201,500.00	183,307.00	218,242.00	209,268.00	211,769.00	198,542.00	207,614.00	207,801.00	197,739.00	208,578.00	200,013.00	203,288.00	2,447,001.00
	Riche Terre	30,990.00	28,557.00	35,084.00	10,408.00	27,107.00	36,949.00	28,992.00	36,854.00	36,349.00	36,219.00	34,305.00	29,498.00	371,312.00
	Schoenfeld	31,704.00	28,500.00	33,143.00	32,043.00	33,019.00	32,117.00	32,441.00	31,945.00	32,190.00	33,616.00	32,505.00	33,816.00	387,039.00
44 45	Schoenfeld Solitude	36,488.00	37,806.00	38,080.00	32,443.00	<u> </u>	-	-	· -	-	-	45,630.00	19,032.00	209,479.00
70	DWS- EAST	30,400.00	37,000.00	30,000.00	02,440.00		_	_	_		_	40,000.00	10,002.00	-
	B.Rose Clemencia no1	233,554.00	209,300.00	232,655.00	222,210.00	229,741.00	221,250.00	232,252.00	232,779.00	227,700.00	243,257.00	234,240.00	236,251.00	2,755,189.00
	B.Rose Clemencia no2 B.Rose Clemencia no3	112,840.00 120,714.00	98,672.00 110,628.00	107,539.00 125,116.00	123,750.00 98,460.00	111,724.00 118,017.00	108,570.00 112,680.00	114,886.00 117,366.00	113,274.00 119,505.00	114,810.00 112,890.00	125,178.00 118,079.00	125,130.00 109,110.00	128,805.00 107,446.00	1,385,178.00 1,370,011.00
	Bel Etang	23,560.00	30,135.00	21,700.00	33,930.00	23,188.00	14,310.00	29,946.00	44,888.00	35,460.00	31,868.00	41,010.00	28,024.00	358,019.00
50	Bonne Mere	212,040.00	183,680.00	203,360.00	203,250.00	204,879.00	203,640.00	203,267.00	200,539.00	197,190.00	202,988.00	191,670.00	219,883.00	2,426,386.00
	Bonne Mere	· ·	· ·	, ,	·	· ·	· ·	· ·		·		,		
52 53	Camp Ithier Caroline	44,299.00	35,840.00	39,680.00	43,440.00	44,578.00	43,080.00	43,648.00	45,043.00	41,730.00	50,840.00	47,580.00	50,933.00	530,691.00
	Caroline	301,475.00	265,440.00	293,880.00	294,030.00	296,236.00	287,040.00	292,578.00	296,298.00	291,960.00	293,778.00	289,350.00	293,880.00	3,495,945.00
	Constance BH No1	258,726.00	238,140.00	237,580.00	223,500.00	267,623.00	258,000.00	266,600.00	268,150.00	245,610.00	256,246.00	223,200.00	239,351.00	2,982,726.00
	Constance BH No2 Laventure	106,919.00 13,206.00	82,292.00 11,480.00	95,821.00 11,160.00	133,980.00 6,690.00	89,931.00 9,951.00	94,320.00 11,340.00	98,580.00 11,687.00	102,300.00 12,307.00	116,640.00 12,480.00	126,170.00 12,834.00	126,420.00 13,320.00	120,900.00 14,353.00	1,294,273.00 140,808.00
58	Petit Paquet	73,439.00	66,695.00	77,097.00	716,610.00	73,656.00	68,310.00	74,183.00	70,432.00	70,680.00	73,811.00	64,560.00	69,099.00	1,498,572.00
	SEASON PUMPING STATIONS (N)													-
	Melrose BH SOUTH							+	+	+		+		-
	Choisy Baie du Cap New			+				+		+				-
61	Bananes	117,800.00	68,236.00	49,910.00	105,000.00	-	42,000.00	96,100.00	51,305.00	-	27,652.00		137,516.00	695,519.00
	Clupy	38,812.00	35,560.00	39,370.00	37,740.00	39,928.00	38,820.00	40,238.00	40,145.00	38,610.00	40,486.00	39,120.00	39,246.00	468,075.00
	Cluny	731,662.00	633,472.00	708,164.00	665,460.00	683,302.00	655,380.00	675,893.00	683,612.00	672,990.00	694,648.00	685,890.00	731,662.00	8,222,135.00
65	Cluny	,	,	·	,	,		,			,	ŕ		
	Gebert N. D.	148,800.00	124,656.00	156,240.00	162,540.00	169,198.00	163,650.00	158,038.00	165,199.00	149,310.00	153,822.00	139,200.00	132,246.00	1,822,899.00
	M.D.M.T- Plaisance M.D.M.T- Plaisance	23,250.00	19,656.00	22,661.00	23,160.00	23,343.00	23,580.00	23,033.00	24,118.00	22,950.00	22,785.00	22,620.00	22,382.00	273,538.00
	N. France (new)	148,800.00	121,100.00	163,835.00	164,640.00	191,177.00	173,520.00	185,504.00	183,985.00	178,440.00	185,132.00	147,570.00	140,647.00	1,984,350.00
70	N. France(old)													-
	Trois Boutiques Trois Boutiques	223,200.00	185,696.00	201,035.00	205,110.00	211,110.00	204,180.00	215,512.00	215,233.00	207,810.00	213,652.00	205,650.00	206,212.00	2,494,400.00
	I rois Boutiques							+						_
73	Alma	16,678.00	14,504.00	14,849.00	13,890.00	12,400.00	13,770.00	15,593.00	15,376.00	14,010.00	15,252.00	12,900.00	13,299.00	172,521.00
	Beard (see)	202,833.00	187,964.00	218,209.00	203,940.00	197,377.00	201,180.00	202,988.00	206,708.00	182,880.00	204,972.00	198,030.00	204,166.00	2,411,247.00
	Beard (new) Bonne Veine BH no1	·			·			·		·			·	
	Bonne Veine BH no2	56,420.00	55,356.00	57,257.00	57,257.00	55,521.00	61,020.00	65,100.00	72,633.00	73,230.00	68,479.00	71,790.00	74,183.00	768,246.00
78	Montee du Fil	125,984.00	126,308.00	150,536.00	142,980.00	120,590.00	131,820.00	137,981.00	135,067.00	132,120.00	128,960.00	122,730.00	121,923.00	1,576,999.00
79	Montee du Fil	0,007.00	0,000.00	. 55,555.00	2,000.00	0,000.00	.51,020.00	,	. 50,001.00	. 52, 120.00	0,000.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,020.00	.,57 5,555.00

10	DWS-MAV LOWER	1												_
Station February														-
62 Basky (BH)		110,200.00	101,788.00	110,816.00	104,312.00	101,998.00	97,289.00	80,483.00	117,367.00	93,329.00	95,456.00	88,522.00	84,023.00	1,185,583.00
Section Control Cont														
84 Seasing HNO: 1		161,932.00	148,448.00	180,772.00	182,964.00	189,076.00	175,117.00	142,608.00	206,805.00	167,326.00	165,638.00	152,527.00	151,821.00	2,025,034.00
88 Basen BH Noz	71.7													
68 Session 177		256,652.00	184,800.00	204,600.00	198,000.00	204,600.00	204,600.00	204,600.00	198,000.00	204,600.00	198,000.00	204,600.00	198,000.00	2,461,052.00
17 18 18 18 18 18 18 1														
Section Sect		70,198.00	64,349.00	81,393.00	84,466.00	73,796.00	62,303.00	50,892.00	59,052.00	41,638.00	99,851.00	100,574.00	91,711.00	880,223.00
69 Clarifords Bit No.1		8 539 00	7 698 00	8 835 00	8 368 00	8 361 00	8 483 00	6 857 00	9 904 00	7 799 00	7 882 00	8 748 00	8 506 00	99 980 00
O Clarkfords Bit No.2			,	,	, , , , , , ,	·	-,	- /	.,	,		, , , , , ,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
September No.2 43,970.0 39,950.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 39,850.0 31,852.0 31,852.0 31,852.0 39,740.0 39,740.0 34,720.0 34,720.0 34,720.0 34,720.0 34,720.0 38,850.0 37,330.0 37,330.0 31,852.0 32,850.0 38,850.0 37,850.0 38,	90 Clairfonds BH No.2	64,257.00	71,037.00	95,469.00	100,775.00	39,397.00	28,143.00	31,321.00	99,106.00	87,315.00	98,365.00	86,368.00	75,685.00	877,238.00
Section Part		43 370 00	39 626 00	34 836 00	48 138 00	46 205 00	43 922 00	33 298 00	51 345 00	42 631 00	43 673 00	38 957 00	36 684 00	502 685 00
Mighlands		10,010.00	00,020.00	0.1,000.00	10,100.00	.0,200.00	10,022.00	00,200.00	01,010.00	12,001.00	10,010.00	00,007.00	00,0000	002,000.00
Mail Highlands Mail		26.350.00	19.264.00	26.009.00	37.590.00	41.602.00	44.880.00	32.271.00	34.720.00	34.320.00	40.982.00	39.930.00	37.324.00	415.242.00
168 Holywood 387		==,==3.00	,		,	,	,	3=,=:00	,- =	,	,	,	2.,2200	
37 Tolyrood 38 Holyrood 39 Holyrood 39 Holyrood 39 Holyrood 39 Holyrood 39 Holyrood 39 Holyrood 30 Holyroo	,	1												
88 Toloytood 99 Follymood 99														
199 Holyrood 190	- , - ,													
99 Holyrood Holyro		387.256.00	352.935.00	478.420.00	506.255.00	494.846.00	498.026.00	390.774.00	560.685.00	457.453.00	491.033.00	395.432.00	321.955.00	5.335.070.00
101 101/mood 101		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,.
100 100														
Palma		4												
104 Palmyre 28B 37,641.00 33,075.00 50,790.00 75,000.00 75,000.00 75,000.00 38,100.00														
105 Palmyre 419 36,172.00 32,792.00 38,989.00 38,164.00 37,982.00 35,984.00 30,039.00 44,145.00 35,388.00 36,623.00 35,122.00 33,387.00 443,784.00 107 Pont Fer (petit camp) BH No1 36,699.00 34,787.00 40,286.00 40,676.00 39,503.00 40,687.00 40,687.00 41,110.00 37,607.00 38,215.00 38,215.00 33,342.00 44,094.00 108 Pont Fer (petit camp) BH No2 36,699.00 34,787.00 40,286.00 41,676.00 39,503.00 44,687.00 30,638.00 41,110.00 37,607.00 38,215.00 38,215.00 33,632.00 44,094.10 108 Solierino BH 32,479.00 31,884.00 40,638.00 32,634.00 35,008.00 34,499.00 28,360.00 42,535.00 18,136.00 34,247.00 33,346.00 32,073.00 395,839.00 110 Solierino Candos 119,746.00 104,393.00 120,974.00 114,366.00 146,812.00 158,132.00 118,399.00 165,106.00 129,477.00 133,942.00 127,396.00 121,445.00 124,450.00 128,450.00 112 Solierino Dookun 92,435.00 77,812.00 58,175.00 45,114.00 51,150.00 86,643.00 71,417.00 109,083.00 88,755.00 115,145.00 61,785.00 68,438.00 925,952.00 114 St. Jean 39,961.00 34,831.00 41,637.00 41,688.00 40,789.00 39,019.00 32,045.00 47,011.00 38,267.00 37,409.00 30,136.00 17,608.00 439,781.00 117 St Paul BH No2 62,557.00 38,071.00 46,435.00 64,873.00 84,881.00 101,104.00 74,375.00 65,390.00 85,381.00 80,894.00 88,488.00 825,641.00 119 Telfair 60,853.00 64,596.00 82,987.00 80,970.00 82,925.00 74,160.00 77,593.00 62,837.00 60,150.00 53,971.00 51,600.00 49,011.00 49,011.00 49,011.00 40,000.00			-,	. ,	. ,			,	,	- ,	,		,	,
106 Palmyre (new) 827 23,291.00 21,228.00 28,566.00 30,222.00 29,543.00 22,7519.00 22,7519.00 31,975.00 25,185.00 26,173.00 24,792.00 23,011.00 314,274.00 108 Port Fer (petit camp) BH No2 36,699.00 34,787.00 40,286.00 41,676.00 39,503.00 40,567.00 30,638.00 41,111.00 37,607.00 38,215.00 36,221.00 33,632.00 34,099.10 33,632.00 34,099.10 34,007.00 38,215.00 36,221.00 33,632.00 34,099.10 34,007.00 38,215.00 36,221.00 33,632.00 34,099.10 34,007.00 38,007.00 38,215.00 36,221.00 33,346.00 32,073.00 39,583.00 36,007.00 38,215.00 36,007.00 38,215.00 36,221.00 33,346.00 32,073.00 39,583.00 39,583.00 34,007.00														,
Port For (petit camp) BH No1 36,699 00 34,787.00 40,286.00 41,676.00 39,503.00 40,567.00 30,638.00 41,110.00 37,607.00 38,215.00 36,221.00 33,632.00 459,941.00 109 Solferino BH 32,479.00 31,884.00 40,638.00 32,634.00 32,634.00 33,608.00 34,499.00 28,360.00 42,535.00 18,136.00 34,247.00 33,346.00 32,073.00 395,839.00 110 Solferino Candos 119,746.00 104,393.00 120,974.00 114,366.00 146,812.00 158,132.00 118,399.00 165,106.00 129,477.00 133,942.00 127,396.00 121,445.00 1,560,188.00 128,007.00 129,007.00 1				, ,		,				,	, , , , , , , , , , , , , , , , , , ,			
108 Pont Fer (petit camp) BH No2 36,899.00 34,787.00 40,286.00 41,676.00 39,003.00 40,667.00 30,638.00 41,110.00 37,607.00 38,215.00 36,221.00 33,832.00 45,941.00		23,291.00	21,228.00	28,566.00	30,222.00	29,543.00	27,519.00	22,769.00	31,975.00	25,185.00	26,173.00	24,792.00	23,011.00	314,274.00
Post Fer (petit camp) BH No2 108 Post Fer (petit camp) BH No2 32,479.0 31,884.00 40,638.00 32,634.00 35,008.00 34,499.00 28,360.00 42,535.00 18,136.00 34,247.00 33,346.00 32,073.00 395,839.00 30,086.00 34,099.00 32,045.00 34,099.00 32,045.00 34,099.00 32,045.00 34,099.00 32,045.00 34,099.00 32,045.00 34,099.0	()	36.699.00	34.787.00	40.286.00	41.676.00	39.503.00	40.567.00	30.638.00	41.110.00	37.607.00	38.215.00	36,221,00	33.632.00	450.941.00
110 Solferino Candos 119,746.00 104,393.00 120,974.00 114,366.00 146,812.00 158,132.00 118,399.00 165,106.00 129,477.00 133,942.00 127,396.00 121,445.00 1,560,188.00 118,506,188.	(· ·		, ,	· ·	, ,	· ·	· ·	· ·	, ,	*
111 Solferino Candos 119,746.00 104,393.00 120,974.00 114,366.00 146,812.00 188,132.00 118,399.00 165,106.00 129,477.00 133,942.00 127,396.00 121,445.00 1,560,188.00 129,610.00 127,396.00 127,396.00 121,445.00 1,560,188.00 129,610.00		32,479.00	31,884.00	40,638.00	32,634.00	35,008.00	34,499.00	28,360.00	42,535.00	18,136.00	34,247.00	33,346.00	32,073.00	395,839.00
Solferino Dookun 92,435.00 77,812.00 58,175.00 45,114.00 51,150.00 86,643.00 71,417.00 109,083.00 88,755.00 115,145.00 61,785.00 88,438.00 925,952.00		119,746.00	104,393.00	120,974.00	114,366.00	146,812.00	158,132.00	118,399.00	165,106.00	129,477.00	133,942.00	127,396.00	121,445.00	1,560,188.00
13 Solferino Dookun 92,435.00 77,812.00 58,175.00 45,114.00 51,150.00 86,643.00 71,417.00 109,083.00 88,755.00 115,145.00 61,785.00 68,438.00 925,952.00 114 St.Jean 39,961.00 34,831.00 41,637.00 41,668.00 40,789.00 39,019.00 32,045.00 47,011.00 38,267.00 37,409.00 30,136.00 17,608.00 439,781.00 115 St.Paul BH No1 62,557.00 38,071.00 46,435.00 64,873.00 84,381.00 101,104.00 74,375.00 53,712.00 65,390.00 85,361.00 80,894.00 68,488.00 825,641.00 118 Telfair 60,853.00 64,596.00 82,987.00 80,970.00 82,925.00 74,160.00 77,593.00 62,837.00 60,150.00 53,971.00 51,600.00 49,011.00 801,653.00 120 Trianon 176,364.00 195,732.00 210,222.00 214,774.00 234,681.00 212,515.00 168,868.00 240,932.00 188,561.00 202,750.00 205,353.00 169,527.00 2,420,279.00 121 Trianon (New) 83,247.00 81,723.00 110,902.00 103,374.00 102,340.00 83,732.00 70,816.00 102,926.00 84,843.00 87,346.00 79,818.00 75,326.00 1,066,393.00 125 Yemen 103,304.00 97,932.00 30,345.00 11,528.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 109,006.00 71,600.00 77,6		.,	- ,	-,-	,	-,-	,	-,	,	-,	,-	,	,	,,
13 Solemno Dookun 14 St Jean 39,961.00 34,831.00 41,637.00 41,068.00 40,789.00 39,019.00 32,045.00 47,011.00 38,267.00 37,409.00 30,136.00 17,608.00 439,781.00 116 St Paul BH No1 5t Paul BH No2 62,557.00 38,071.00 46,435.00 64,873.00 84,381.00 101,104.00 74,375.00 53,712.00 65,390.00 85,361.00 80,894.00 68,488.00 825,641.00 118 Telfair 60,853.00 64,596.00 82,987.00 80,970.00 82,925.00 74,160.00 77,593.00 62,837.00 60,150.00 53,971.00 51,600.00 49,011.00 801,653.00 120 Trianon (New) 176,364.00 195,732.00 210,222.00 214,774.00 234,681.00 212,515.00 168,686.00 240,932.00 188,561.00 202,750.00 205,353.00 169,527.00 2,420,279.00 122 Valentina (Lower Phoenix) 83,247.00 81,723.00 110,902.00 103,374.00 102,340.00 83,732.00 70,816.00 102,926.00 84,843.00 87,346.00 79,818.00 75,326.00 1,666,393.00 125 Vemen 103,304.00 97,932.00 30,435.00 11,528.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 77,630.00 860,470.00 127 Vemen New 65,031.00 55,300.00 53,300.00 53,070.00 30,136.00 77,630.00 30,470.00 30,470.00 30,470.00 30,040.00 49,071.00 49,07		92,435.00	77,812.00	58,175.00	45,114.00	51,150.00	86,643.00	71,417.00	109,083.00	88,755.00	115,145.00	61,785.00	68,438.00	925,952.00
115 St Jean					· ·		,	,	,	· ·	· ·	,	, ,	*
116 St Paul BH No1 62,557.00 38,071.00 46,435.00 64,873.00 84,381.00 101,104.00 74,375.00 53,712.00 65,390.00 85,361.00 80,894.00 68,488.00 825,641.00 117 St Paul BH No2 60,853.00 64,596.00 82,987.00 80,970.00 82,925.00 74,160.00 77,593.00 62,837.00 60,150.00 53,971.00 51,600.00 49,011.00 801,653.00 120 Trianon (New) 176,364.00 195,732.00 210,222.00 214,774.00 234,681.00 212,515.00 168,868.00 240,932.00 188,561.00 202,750.00 205,353.00 169,527.00 2,420,279.00 122 Valentina (Lower Phoenix) 83,247.00 81,723.00 110,902.00 103,374.00 102,340.00 83,732.00 70,816.00 102,926.00 84,843.00 87,346.00 79,818.00 75,326.00 10,663,93.00 124 Valentina (new) 21,596.00 18,681.00 22,793.00 30,345.00 115,528.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 81,580.00 71,630.00 81,580.00 77,630.00 86,470.00 126 Yemen (OLD) 103,304.00 97,932.00 53,400.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 128 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 129 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 120 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 120 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 80,470.00 120 Yeme		39,961.00	34,831.00	41,637.00	41,068.00	40,789.00	39,019.00	32,045.00	47,011.00	38,267.00	37,409.00	30,136.00	17,608.00	439,781.00
117 St Paul BH No2 62,557.00 38,071.00 46,435.00 64,596.00 82,987.00 80,970.00 82,925.00 74,160.00 77,593.00 62,837.00 60,150.00 53,971.00 51,600.00 49,011.00 801,653.00 120	114 1111													-
117 St Paul BH No2		62,557.00	38,071.00	46,435.00	64,873.00	84,381.00	101,104.00	74,375.00	53,712.00	65,390.00	85,361.00	80,894.00	68,488.00	825,641.00
Telfair Telfair Felfair Felf		,	,- ,-	,	,	, ,-	,	,	, , , ,	, ,-	,	,	,	,
119 Telfair 120 Trianon 176,364.00 195,732.00 210,222.00 214,774.00 234,681.00 212,515.00 168,868.00 240,932.00 188,561.00 202,750.00 205,353.00 169,527.00 2,420,279.0		60,853.00	64,596.00	82,987.00	80,970.00	82,925.00	74,160.00	77,593.00	62,837.00	60,150.00	53,971.00	51,600.00	49,011.00	801,653.00
Trianon (New) 176,364.00 195,732.00 210,222.00 214,774.00 234,681.00 212,515.00 168,688.00 240,932.00 188,561.00 202,750.00 205,353.00 169,527.00 2,420,279.00 122 Valentina (Lower Phoenix) 83,247.00 81,723.00 110,902.00 103,374.00 102,340.00 83,732.00 70,816.00 102,926.00 84,843.00 87,346.00 79,818.00 75,326.00 1,066,393.00 124 Valentina (new) 21,596.00 18,681.00 22,793.00 31,696.00 16,165.00 33,340.00 22,695.00 32,265.00 30,051.00 28,876.00 24,111.00 19,635.00 301,904.00 125 Yemen (OLD) 103,304.00 97,932.00 30,345.00 11,528.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 110,065		,	- ,	- ,	,-	- ,	,	,	. ,	,	/	- ,	-,-	,
121 Irlanon (New)		176,364.00	195,732.00	210,222.00	214,774.00	234,681.00	212,515.00	168,868.00	240,932.00	188,561.00	202,750.00	205,353.00	169,527.00	2,420,279.00
123 Valentina (Lower Phoenix) 83,247.00 81,723.00 110,902.00 103,374.00 102,340.00 83,732.00 70,816.00 102,926.00 84,843.00 87,346.00 79,818.00 79,818.00 75,326.00 1,066,393.00 124 Valentina (new) 21,596.00 18,681.00 22,793.00 31,696.00 16,165.00 33,340.00 22,695.00 32,265.00 30,051.00 28,876.00 24,111.00 19,635.00 301,904.00 125 Yemen 103,304.00 97,932.00 30,345.00 11,528.00 115,943.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 111,068.00 109,206.00 1140,065.00 126 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00 128 Yemen 103,304.00 103,	` '	.,	,	-,	,	- ,	,	,	-,	,	. ,	,		, ,, ,,
124 Valentina (new) 21,596.00 18,681.00 22,793.00 31,696.00 16,165.00 33,340.00 22,695.00 30,051.00 28,876.00 24,111.00 19,635.00 301,904.00 125 Yemen 103,304.00 97,932.00 30,345.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 109,206.00 1,140,065.00 127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00		83,247.00	81,723.00	110,902.00	103,374.00	102,340.00	83,732.00	70,816.00	102,926.00	84,843.00	87,346.00	79,818.00	75,326.00	1,066,393.00
125 Yemen (OLD) 103,304.00 97,932.00 30,345.00 11,528.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 109,206.00 1,140,065.00 127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00	120 11011011011011111111111111111111111	21 596 00	18 681 00	22 703 00	31 696 00	16 165 00	33 340 00	22 695 00	32 265 00	30.051.00	28 876 00	24 111 00	19 635 00	301 904 00
126 Yemen(OLD) 103,304.00 97,932.00 30,345.00 115,943.00 109,814.00 77,264.00 150,533.00 109,940.00 113,188.00 111,068.00 109,206.00 1,140,065.00 127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00	, ,	· · · · · · · · · · · · · · · · · · ·	,	,	·	,	,	,	, i	,	,	,	· ·	·
127 Yemen New 65,031.00 55,300.00 63,430.00 78,129.00 66,900.00 70,410.00 57,690.00 88,950.00 69,920.00 85,500.00 81,580.00 77,630.00 860,470.00		103,304.00	97,932.00	30,345.00	11,528.00	115,943.00	109,814.00	77,264.00	150,533.00	109,940.00	113,188.00	111,068.00	109,206.00	1,140,065.00
	,	65.031 00	55.300 00	63,430 00	78.129 00	66.900 00	70,410,00	57,690,00	88.950.00	69.920.00	85.500.00	81.580.00	77.630.00	860.470.00
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1						Active Elect	trical Cost (F	Rs)						
S No	Site Name							,		2,004				Total 04
	DWS- Port Louis	Jan	Feb	Mar	Apr	Мау	Jun J	lul	Aug	Sep	Oct	Nov	Dec	
	Beau Bois BH													-
	Beau Bois (New) Beau Bois													
	Beau Songes	160,038.00	81,205.20	631.80	1,722.60	189.00	72.00	125,773.20	35,488.80	126,884.61	166,730.13	168,330.96	189,083.16	1,056,149.46
	Beau Songes	,	, ,		,			· ·	,		,	· ·		
	Petite Riviere Pierrefonds	38,880.00 125,089	31,266.00 22,489	23,436.00	9,828.00 40	2,160.00 142	216.00	 31	54.00 29	221.24 36	2,721.60 42.487	850.50 110.172	5,499.90 132.309	115,133.24 432,888.79
	St Martin	53,946.00	20,898.00	-	-	972.00	-	216.00	1,080.00	113.06	28,973.70	56,586.60	60,498.90	223,284.26
9	St Martin DWS- NORTH													-
	B. Vue Mauricia	39,132.00	41,688.00	35,352.00	39,816.00	41,760.00	38,340.00	42,264.00	38,052.00	39,167.32	47,363.40	40,635.00	39,803.40	483,373.12
	Bassin Loulou (Gallery) Bassin Ioulou (Jamblon)	23,688.00	28,080.00	26,388.00	34,488.00	28,836.00	43,524.00	34,056.00	29,052.00	36,835.85	37,384.20	30,051.00	29,408.40	381,791.45
	Bassin Loulou (Robinson)	8,127	8,233	7,983		0	0	0 34,030.00	0	0	2	0	,	27,070.29
	Beau Plateau Bois Mangues (Old P.de Papayes)	36,972.00 29,520.00	43,488.00 32,184.00	36,432.00 28,332.00	39,924.00 31,176.00	44,496.00 32,400.00	41,580.00 30,204.00	40,824.00 33,300.00	39,060.00 29,304.00	44,505.45 29,940.58	45,889.20 36,288.00	37,044.00 31,033.80	41,995.80 30,655.80	492,210.45 374,338.18
	Camp La Boue	8,881	11,875	11,165		8,694	9,124	9,646	9,956	10,500	,	10,841	11,312	121,948.43
	Camp Thorel	137,032	138,721	131,231	140,825	136,548	140,706	136,001	139,181	145,780	138,469	153,519	207,989	1,746,001.53
	Cottage (New) Cottage- Poonith	34,020.00 55,080.00	36,792.00 60,624.00	34,632.00 57,204.00	34,020.00 52,560.00	38,988.00 53,100.00	35,820.00 48,276.00	36,900.00 49,176.00	33,120.00 45,072.00	38,436.53 52,784.66	39,198.60 54,545.40	32,508.00 45,662.40	35,229.60 49,858.20	429,664.73 623,942.66
20	Esp.Trebuchet		,	, -	,	,	,	,	-,-	,	, , , , , , , , , , , , , , , , , , , ,	-,	.,	-
	F. Du Sac-Choisy F. Du Sac-Choisy	121,649.40	121,370.40	114,240.60	121,064.40	118,139.40	122,058.00	118,706.40	122,909.40	127,509.24	125,271.09	128,597.49	124,711.65	1,466,227.47
23	F. Du Sac-forbach	94,392	95,634	87,750	90,828	90,882	105,840	96,822	83,160	82,724	95,993	78,076	78,019	1,080,119.88
	Haute Rive La Clemence	32,652.00 15,660.00	40,752.00 12,564.00	34,848.00 12,600.00	37,116.00 3,276.00	35,748.00	40,536.00	33,480.00	32,040.00	36,129.60	41,239.80	36,401.40	32,697.00	433,639.80 44,100.00
	Labourdonnais	18,777.60	19,524.60	19,713.60	19,132.20	21,506.40	22,298.40	21,592.80	22,123.80	23,235.82	22,608.18	23,288.58	22,258.53	256,060.51
	Mapou	12,053	26,876	23,969	26,480	26,071	27,527	26,530	27,281	29,186	28,312	30,161	30,019	314,464.33
	Mon Loisir MSA BH 117	42,818.40	41,184.00	37,776.60	42,480.00	43,605.00	48,778.20	46,747.80	46,967.40	50,472.29	49,236.39	49,829.85	48,714.75	548,610.68
30	MSA BH 117	17,748.00	19,008.00	16,668.00	18,180.00	18,036.00	17,460.00	18,612.00	14,904.00	17,971.76	22,150.80	18,370.80	18,597.60	217,706.96
	MSA BH 306 MSA BH 309	61,041.60	56,815.20	57,918.60	66,654.00	61,538.40	68,054.40	61,786.80	62,892.00	65,470.94	60,941.16	62,239.59	66,599.82	751,952.51
33	MSA BH 309	2,664.00	13,068.00	12,636.00	11,736.00	15,048.00	5,940.00	-	1,728.00	-	-	-	11,340.00	74,160.00
	P. Bon Espoir P. D'Or (New)	166,653.00 129,222.00	166,222.80 99,846.00	160,061.40 104.274.00	170,506.80 123,012.00	162,336.60 115,830.00	163,022.40 77,112.00	164,300.40 83,214.00	166,325.40 122,526.00	176,670.00 124,626.60	170,075.43 121,167.90	174,414.87 112,152.60	170,982.63 115,271.10	2,011,571.73 1,328,254.20
	P. D'Or No.1	21,168.00	23,112.00	21,816.00	21,168.00	23,832.00	8,136.00	1,368.00	7,128.00	23,526.45	24,948.00	20,487.60	20,260.80	216,950.85
	P. D'Or No.2	12,367.80	12,088.80	11,318.40	12,321.00	11,896.20	12,483.00	12,263.40	12,706.20	12,171.77	11,164.23	11,833.29	11,530.89	144,144.98
	P. D'Or No.3 P. D'Or No.4	41,884.20 43,860.60	42,604.20 43,140.60	39,915.00 40,075.20	41,936.40 43,333.20	41,722.20 43,668.00	8,571.60 42,517.80	33,285.60 44,020.80	39,994.20 47,059.20	44,627.95 49,458.92	42,506.10 49,535.01	43,785.63 43,502.13	41,685.84 39,158.91	462,518.92 529,330.37
	Petite Retraite	138,564.00	176,472.00	151,740.00	160,272.00	152,712.00	182,520.00	153,792.00	148,068.00	171,063.36	205,140.60	184,842.00	166,584.60	1,991,770.56
	Petite Retraite Riche Terre	22,176	26,352	21,708	22,428	20,592	22,752	24,660	22,572	25,026	27,745	25,326	23,701	285,037.32
43	Schoenfeld	41,724.00	56,160.00	47,700.00	51,948.00	49,140.00	55,368.00	45,756.00	43,884.00	51,554.88	62,445.60	54,280.80	49,215.60	609,176.88
	Schoenfeld Solitude	24,840	39,204	46,908	19,008	14.724	18,720	36	ŕ	0.,500	0	24,154	·	219,762.00
	DWS- EAST	2.,0.0	00,201	.0,000	10,000	,. = .	10,120					= 1,101	02,100	-
	B.Rose Clemencia no1 B.Rose Clemencia no2	_									188,746.74	206,956.89	210,118.86	605,822.49
	B.Rose Clemencia no3										100,740.74	200,730.87	210,110.00	005,822.4
	Bel Etang	8,694.00	15,606.00	5,670.00	10,584.00	10,530.00	1,782.00	1,620.00	1,404.00	4,980.76	6,293.70	13,721.40	3,628.80	84,514.66
	Bonne Mere Bonne Mere	108,016.20	101,152.80	98,415.00	109,166.40	105,692.40	107,420.40	105,658.20	108,844.20	113,401.31	109,417.77	111,663.09	109,765.53	1,288,613.30
	Camp Ithier	38,484.00	50,076.00	47,340.00	42,228.00	47,160.00	39,276.00	43,776.00	39,672.00	49,248.00	45,927.00	49,782.60	53,487.00	546,456.60
	Caroline Caroline	198,000.00	162,180.00	167,220.00	178,740.00	178,560.00	166,680.00	173,520.00	186,480.00	189,189.00	175,959.00	187,866.00	189,378.00	2,153,772.00
55	Constance BH No1	148,194.00	145,240.20	137,152.80	147,310.20	142,945.20	160,599.60	130,572.00	148,829.40	154,811.76	147,866.04	155,112.30	150,200.19	1,768,833.69
	Constance BH No2 Laventure	10,467.00	8,793.00	8,692.20	10,384.20	10,038.60	10,330.20	10,089.00	10,373.40	12,079.31	14,823.27	14,634.27	15,276.87	135,981.32
58	Petit Paquet	10,407.00	0,7 90.00	0,032.20	10,004.20	10,000.00	10,000.20	10,000.00	10,010.40	12,013.01	17,020.21	17,007.27	10,210.01	100,001.02
	SEASON PUMPING STATIONS (N) Melrose BH	65	6,858	21,753	29,185	11.056	11,056	11,056	38,273	12,410	1,788	7,496	147	- 151,141.85
WS SOUT	Ή	05	0,008	21,733	29,105	11,000	11,000	11,000	30,273	12,410	1,768	7,496	147	101,141.00
	Choisy Baie du Cap New	44 994 99	27 141 20	75 (0	100.00	00.00	100.00	2.005.20	7.452.00	111 24	41.054.22	46 222 72	41 210 01	204 455 00
	Bananes Café	44,884.80 21,780.00	37,141.20 25,416.00	75.60 21,168.00	100.80 23,508.00	90.00 24,984.00	108.00 20,304.00	2,095.20 24,048.00	7,452.00 17,964.00	28,879.20	41,954.22 23,738.40	46,223.73 25,779.60	41,219.01 24,759.00	221,455.90 282,328.20
63	Cluny	Ĺ		,		,		-		,		Í		
	Cluny	383,580.00	342,360.00	341,280.00	328,680.00	375,300.00	295,200.00	362,160.00	282,060.00	399,977.73	413,910.00	381,213.00	361,179.00	4,266,899.7
66	Gebert	70,128.00	60,984.00	64,656.00	61,848.00	74,232.00	56,304.00	65,088.00	47,736.00	64,041.27	62,672.40	-	133,358.40	761,048.07
	M.D.M.T- Plaisance M.D.M.T- Plaisance	10,753.20	12,686.40	11,903.40	13,431.60	13,199.40	14,400.00	13,307.40	13,865.40	14,845.79	13,235.67	14,303.52	14,957.46	160,889.2
69	N. France (new)	120,976.20	120,859.20	110,187.00	127,076.40	135,036.00	141,244.20	134,596.80	139,123.80	143,489.18	137,964.33	142,158.24	135,639.63	1,588,350.98
	N. France(old) Trois Boutiques													-
72	Trois Boutiques	89,568.00	88,776.00	78,336.00	86,256.00	89,928.00	74,376.00	86,904.00	64,584.00	102,805.49	89,283.60	96,616.80	92,685.60	1,040,119.4
-MAV UP				·										-
	Alma Beard	04.655.00	74 222 00	70.070.00	76 150 00	72.665.00	76.012.20	75 A57 00	77.7(1.00	02 124 15	01 11 (01	94.737.37	79 (07 71	020 (02.2
75	Beard (new)	84,655.80	74,232.00	72,262.80	76,159.80	73,665.00	76,813.20	75,457.80	77,761.80	83,134.16	81,116.91	84,736.26	78,697.71	938,693.2
	Bonne Veine BH no1 Bonne Veine BH no2	1												-
78	Montee du Fil	44,868.60	42,136.20	42,660.00	44,928.00	41,688.00	36,396.00	69,444.00	50,220.00	48,081.60	50,236.20	45,700.20	42,751.80	559,110.60
79	Montee du Fil	77,000.00	74,130.40	72,000.00	77,720.00	71,000.00	20,270.00	02, 111 .00	30,220.00	₹0,001.00	30,230.20	75,700.20	74,/31.00	227,110.0

						\ -4! - 4		(D-)						
-MAV LO	WER				- +	ACTIVE FIEC	t rical Cost (KS)						-
80	Bambou (Eau Bonne) BH No1	25.740.00	170 400 60	150 014 00	170 (40 00	175 222 00	1.60, 452, 00	1/2 0/1 20	170 766 00	170 004 00	171 (70 15	170 417 00	1/7 000 70	4 000 004 04
81	Bambou (Eau Bonne) BH No2	25,749.00	179,409.60	158,914.80	170,649.00	165,223.80	169,453.80	163,861.20	170,766.00	178,894.89	171,678.15	178,416.00	167,888.70	1,900,904.94
82	Barkly (BH)	180.468.00	157 249 00	157 (00.00	157,017,00	72.252.00	05 500 00	112 400 00	100,000,00	127.460.10	104 101 20	114 000 40	125 052 20	1 522 020 00
83	Barkly (SP)	180,468.00	157,248.00	157,680.00	156,816.00	72,252.00	95,580.00	113,400.00	108,000.00	137,460.18	104,101.20	114,080.40	135,853.20	1,532,938.98
84	Bassin BH No 1	150,660.00	181,980.00	154,116.00	161,244.00	187,164.00	152,604.00	164,484.00	152,712.00	179,569.64	178,038.00	136,080.00	33,226.20	1,831,877.84
85	Bassin BH No2	130,000.00	161,980.00	134,110.00	101,244.00	167,104.00	132,004.00	104,464.00	132,/12.00	1/9,309.04	176,036.00	130,080.00	33,220.20	1,031,077.04
86	Bassin 717	127,881.00	94,032.00	91,560.60	97,507.80	94,003.20	96,303.60	93,009.60	96,622.20	101,378.61	98,924.49	134,611.47	174,248.55	1,300,083.12
87	Bassin 435	127,001.00	71,032.00	71,500.00	77,507.00	71,005.20	70,303.00	75,007.00	70,022.20	101,570.01	70,721.17	15 1,011.17	171,210.55	1,500,005.12
88	Chamarel BH													-
89	Clairfonds BH No.1	38,052.00	39,600.00	40,356.00	54,792.00	67,032.00	42,732.00	45,072.00	44,352.00	41,713.70	43,810.20	39,387.60	42,865.20	539,764.70
90	Clairfonds BH No.2	,	,	.,	,,,,,,,,,	,	,	- ,	,	,	- ,	,	,	, , , , , , , , , , , , , , , , , , , ,
91	Ebene BH No1	18,072.00	19,800.00	15,048.00	15,300.00	12,096.00	15,840.00	18,936.00	15,156.00	18,295.82	13,003.20	13,305.60	17,879.40	192,732.02
92	Ebene BH No2													
93 94	Highlands Highlands	26,082.00	21,870.00	19,602.00	22,788.00	19,980.00	22,788.00	11,448.00	16,524.00	20,014.31	19,164.60	20,752.20	19,051.20	240,064.31
	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood													
99	Holyrood	190,080.00	204,660.00	204,480.00	238,320.00	235,440.00	213,120.00	250,740.00	196,560.00	264,747.09	191,079.00	205,065.00	189,378.00	2,583,669.09
100	Holyrood													
101	Holyrood	1												
102	Holyrood	1												
103	Palma	24,577.20	25,297.20	23,122.80	14,504.40	7,916.40	7,407.00	10,935.00	10,668.60	24,305.81	25,123.77	25,953.48	25,480.98	225,292.64
104	Palmyre 26B	29,750.70	35,929.00	16,030.10	30,507.10	39,261.50	34,189.90	44,853.90	24,226.50	35,272.00	36,225.12	15,683.86	23,957.74	365,887.42
105	Palmyre 419													-
106	Palmyre (new) 827	48,732.00	57,226.00	47,182.00	55,862.00	62,248.00	53,630.00	59,458.00	53,506.00	62,068.84	56,332.80	49,226.00	46,422.40	651,894.04
107	Pont Fer (petit camp) BH No1	28,548.00	30,384.00	27,864.00	29,412.00	37,692.00	24,804.00	31,428.00	25,884.00	27,962.95	21,470.40	22,604.40	20,790.00	328,843.75
108	Pont Fer (petit camp) BH No2	· ·	, ,	· ·	,	,	· ·	,	· ·	· ·	*	,	,	
109	Solferino BH	28,416.60	28,625.40	27,081.00	27,896.40	27,880.20	25,182.00	35,404.20	35,875.80	25,260.68	20,608.56	21,254.94	20,574.54	324,060.32
110	Solferino Candos	18,414.00	18,414.00	13,608.00	15,282.00	21,870.00	10,260.00	14,472.00	12,042.00	19,438.30	20,752.20	21,942.90	19,788.30	206,283.70
111	Solferino Candos	,	,	, ,	,	,	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	, ,	ŕ	· ·		,	
112	Solferino Dookun	61,344.00	62,640.00	53,928.00	62,280.00	59,976.00	54,360.00	64,944.00	50,688.00	70,846.77	63,957.60	66,074.40	60,555.60	731,594.37
113 114	Solferino Dookun St Jean	18.856.80	10.720.00	12.888.00	13.091.40	14.360.40	-	17.021.60	18.338.40	19.533.34	19.026.63	19.610.64	-	209,622.52
114	St Jean	18,856.80	18,738.00	12,888.00	13,091.40	14,360.40	18,311.40	17,931.60	18,558.40	19,555.34	19,026.63	19,610.64	18,935.91	
116	St Paul BH No1													-
117	St Paul BH No2	28,080.00	23,472.00	21,888.00	32,616.00	27,720.00	22,752.00	24,768.00	25,056.00	24,975.56	30,240.00	27,442.80	35,305.20	324,315.56
117	Telfair													
119	Telfair	 												-
120	Trianon													
121	Trianon (New)	75,276.00	89,424.00	75,816.00	81,432.00	89,640.00	76,140.00	83,052.00	72,036.00	109,788.62	68,720.40	86,694.30	91,854.00	999,873.32
122	Valentina (Lower Phoenix)	40 105 00	40.500.20	46.021.40	50 (57 10	44.407.00	47.010.50	47.116.40	50 151 50	54.006.00	51.540.10	52.272.52	50.021.55	592,806.76
123	Valentina (Lower Phoenix)	48,195.00	48,580.20	46,031.40	50,657.40	44,407.80	47,910.60	47,118.60	50,151.60	54,006.82	51,542.19	53,373.60	50,831.55	-
124	Valentina (new)	28,476.00	34,344.00	26,964.00	35,532.00	30,060.00	33,948.00	23,436.00	29,232.00	36,748.80	32,772.60	34,927.20	31,676.40	378,117.00
125	Yemen	74,736.00	90,612.00	75,060.00	81,324.00	89,964.00	76,302.00	89,856.00	70,092.00	93,459.86	91,910.70	80,343.90	70,308.00	983,968.46
126	Yemen(OLD)	74,730.00	90,012.00	73,000.00	01,324.00	07,704.00	70,302.00	07,030.00	70,092.00	73,437.80	91,910.70	,	/0,306.00	703,700.40
127	Yemen New	108,990.00	119,385.00	83,853.00	102,879.00	106,470.00	84,042.00	104,202.00	88,263.00	132,595.74	128,876.00	119,277.00	109,509.60	1,288,342.34
		4,773,087.90	4,741,964.60	4,252,650.90	4,515,033.30	4,392,362.10	4,140,577.50	4,449,375.10	4,148,016.70	4,891,885.42	5,029,276.40	5,041,500.09	5,155,241.03	55,313,264.08

S No	Site Name					Active Elec	trical Cost	(Rs)			2,00	5.00		Total 05
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	DWS- Port Louis Beau Bois BH													-
2	Beau Bois (New)													-
	Beau Bois Beau Songes													1,392,215.58
5	Beau Songes	194,203.17	195,293.70	54,726.84	425.25	378.00	302.40	95,930.73	145,768.14	172,494.63	175,528.08	166,123.44	191,041.20	-
	Petite Riviere Pierrefonds	20,355.30 83,591	37,422.00 87,832	16,329.60 27,600	3,231.90 55	6,463.80 73,593	2,494.80 73,593	623.70	5,613.30	8,901.90	4,025.70	2,835.00 32,555	510.30 85,827	108,807.30 464.645.16
	St Martin	54,205.20	57,607.20	49,896.00	36,174.60	18,370.80	36,004.50	49,045.50	54,885.60	54,261.90	54,942.30	64,297.80	60,442.20	590,133.60
9	St Martin DWS- NORTH													-
10	B. Vue Mauricia	40,748.40	46,191.60	40,937.40	39,765.60	46,720.80	41,466.60	44,830.80	34,851.60	34,511.40	38,669.40	35,002.80	36,023.40	479,719.80
	Bassin Loulou (Gallery)	00,000,00	00.400.00	07.000.40	00 070 00	40 504 00	07.457.40	20.400.00	20,004,00	50 570 40	20.240.00	00.054.40	00.070.00	-
	Bassin Ioulou (Jamblon) Bassin Loulou (Robinson)	26,233.20	29,106.00	27,896.40 0	29,370.60 0	40,521.60	37,157.40 0	39,160.80 2	36,061.20	50,576.40 0	32,319.00 2	26,951.40 0	29,673.00 2	405,027.00 7.56
	Beau Plateau	41,958.00	59,005.80	26,686.80	36,892.80	42,487.20	44,641.80	38,782.80	39,047.40	42,336.00	45,057.60	39,236.40	37,422.00	493,554.60
	Bois Mangues (Old P.de Papayes) Camp La Boue	30,958.20 9,418	35,116.20 6,804	31,033.80 6,332	29,862.00 5,740	34,813.80 5,734	30,504.60 6,016	35,116.20 5,776	31,865.40 10,563	30,844.80 5,991	34,927.20 5,782	30,429.00 5,904	31,978.80 5,500	387,450.00 79,559.55
17	Camp Thorel	212,232	213,632	190,270	207,445	205,452	214,383	206,887	212,440	206,571	204,791	207,410	204,936	2,486,449.98
	Cottage (New) Cottage- Poonith	33,075.00	40,219.20 100,510.20	34,624.80 50,841.00	34,776.00 53,638.20	29,295.00 52,693.20	35,267.40 49,404.60	29,559.60 43,659.00	30,466.80 45,435.60	31,941.00 47,930.40	34,435.80 49,631.40	29,937.60 45,851.40	31,714.20 41,769.00	395,312.40 581,364.00
20	Esp.Trebuchet		100,010.20	00,011.00	00,000.20	02,000.20	10, 10 1100	10,000.00	10,100.00	,000.10	10,001110	10,001110	11,100.00	-
	F. Du Sac-Choisy F. Du Sac-Choisy	128,266.74	130,213.44	118,769.49	130,203.99	106,767.99	144,756.99	126,841.68	129,168.27	130,876.83	125,588.61	130,574.43	125,244.63	1,527,273.09
23	F. Du Sac-forbach	84,540		81,988	84,993	90,040		93,668	97,014	91,514		104,691	88,371	1,096,916.31
	Haute Rive La Clemence	-	66,339.00	29,710.80	41,013.00	35,456.40	39,916.80	35,796.60	36,666.00	47,212.20	31,185.00	33,339.60	36,023.40	432,658.80
	Labourdonnais	22,296.33	20,880.72	21,253.05	23,262.12	22,511.79	23,262.12	18,900.00	21,262.50	19,476.45	20,882.61	22,719.69	21,661.29	258,368.67
	Mapou	29,879		27,660	30,197	29,658		30,397	31,236	31,648	,	31,200	30,448	359,141.58
	Mon Loisir MSA BH 117	50,376.06	48,909.42	44,464.14	48,856.50	47,892.60	49,557.69	48,081.60	50,449.77	50,249.43	47,788.65	49,843.08	48,797.91	585,266.85
30	MSA BH 117	18,862.20	21,508.20	19,504.80	17,539.20	20,525.40	16,896.60	17,690.40	16,291.80	17,614.80	20,071.80	18,295.20	19,013.40	223,813.80
	MSA BH 306 MSA BH 309	65,575.44	59,667.30	53,987.85	75,552.75	74,286.45	73,150.56	73,118.43	74,957.40	76,373.01	66,768.03	64,634.22	60,827.76	818,899.20
	MSA BH 309	16,669.80	18,635.40	15,233.40	15,649.20	16,858.80	17,199.00	20,071.80	12,587.40	13,003.20	15,913.80	11,453.40	13,494.60	186,769.80
	P. Bon Espoir P. D'Or (New)	178,098.48 133,131.60	172,248.93 102,683.70	174,736.17 101,889.90	176,367.24 128,425.50	176,367.24 114,704.10	171,850.14 95,256.00	176,308.65 127,971.90	183,753.36 123,776.10	184,121.91 139,085.10	177,384.06 99,848.70	184,611.42 110,338.20	180,171.81 149,688.00	2,136,019.41 1,426,798.80
36	P. D'Or No.1	19,051.20	22,302.00	19,504.80	17,161.20	18,900.00	16,178.40	17,539.20	17,614.80	2,494.80	14,061.60	18,446.40	17,236.80	200,491.20
	P. D'Or No.2	11,617.83	11,511.99	10,240.02	11,421.27	11,419.38	6,087.69	175.77	275.94	837.27	712.53	398.79	4,600.26	69,298.74
	P. D'Or No.3 P. D'Or No.4	42,472.08 39,158.91	41,706.63 43,205.40	37,686.60 34,226.01	40,304.25 37,892.61	42,063.84 37,892.61	34,492.50 50,636.88	42,317.10 46,775.61	43,696.80 49,361.13	43,422.75 49,446.18	40,910.94 47,214.09	42,640.29 47,886.93	41,109.39 45,535.77	492,823.17 529,232.13
40	Petite Retraite	178,378.20	161,595.00	154,450.80	204,120.00	168,058.80	180,986.40	163,069.20	167,832.00	150,028.20	234,738.00	182,383.11	173,815.74	2,119,455.45
	Petite Retraite Riche Terre	24,683	28,917	24,381	24,041	28,841		27,027	24,457	23,663		22,945	24,457	305,575.20
43	Schoenfeld	53,373.60	47,590.20	47,514.60	59,157.00	48,157.20	59,497.20	49,933.80	50,954.40	56,133.00	55,225.80	51,861.60	56,511.00	635,909.40
	Schoenfeld Solitude	44,717	•	36,742	41,580	, i	5,141	0	2,344	24,192		32,999	43,319	334,454.40
	DWS- EAST	,	.0,000	00,1.12	,000	00,000	9,	v	2,0	2.,.02	10,101	02,000	10,010	-
	B.Rose Clemencia no1 B.Rose Clemencia no2	218,527.47	215,580.96	196,089.39	212,823.45	207,769.59	218,349.81	211,971.06	219,145.50	219,521.61	212,133.60	223,751.43	216,187.65	2,571,851.52
	B.Rose Clemencia no3	210,327.17		,	212,023.13		210,517.01		217,115.50	219,321.01	212,133.00	•	210,107.03	
	Bel Etang Bonne Mere	19,164.60	15,082.20	17,520.30	12,814.20	18,994.50	16,046.10	22,226.40	18,881.10	29,710.80	29,824.20	23,643.90	31,525.20	255,433.50
51	Bonne Mere	114,433.83	111,426.84	140,181.30	75,603.78	75,603.78	147,792.33	143,025.75	80,602.83	111,572.37	104,163.57	110,459.16	37,185.75	1,252,051.29
	Camp Ithier	42,525.00	53,373.60	48,308.40	48,081.60	51,634.80	50,538.60	45,246.60	60,776.73	50,428.98	48,164.76	58,021.11	57,112.02	614,212.20
	Caroline Caroline	200,907.00	173,691.00	164,808.00	185,031.00	193,725.00	173,880.00	181,818.00	184,842.00	185,787.00	192,402.00	198,828.00	198,828.00	2,234,547.00
	Constance BH No1	155,785.14	196,518.42	193,038.93	217,523.88	211,439.97	221,211.27	214,074.63	220,260.60	224,348.67	224,278.74	255,463.74	282,254.49	2,616,198.48
	Constance BH No2 Laventure	15,613.29	15,675.66	13,861.26	15,346.80	15,346.80	26,539.38	15,806.07	15,944.04	16,240.77	15,683.22	15,365.70	15,722.91	197,145.90
58	Petit Paquet	,						,			,	,		-
	SEASON PUMPING STATIONS (N) Melrose BH	217	136	2,495	21,769	22,948	29,594	112	100	66	53	74	43	77,607.18
WS SOU	тн	217	130	2,490	21,709	22,940	29,094	112	100	00	55	74	43	-
	Choisy Baie du Cap New Bananes	42,938.91	37,473.03	29,482.11	11,772.81	863.73	9,858.24	12,479.67	29,134.35	893.00	9,126.81	109.62	86.94	- 184,219.22
62	Café	24,796.80		7,522.20	25,401.60	20,185.20		50,582.07	24,579.45	24,469.83	23,541.84	23,985.99	23,076.90	272,031.48
	Cluny Cluny	418,824.00	379,701.00	350,595.00	411,264.00	294,084.00	341,334.00	353,997.00	320,922.00	332,451.00	363,258.00	336,987.00	345,681.00	4 240 000 00
	Cluny	410,824.00	3/9,/01.00	550,595.00	411,204.00	274,084.00	341,334.00	333,997.00	320,922.00	332,431.00	303,238.00	330,987.00	343,081.00	4,249,098.00
66	Gebert	77,112.00	69,022.80	64,411.20	76,280.40	60,706.80	79,920.63	69,723.99	71,729.28	72,661.05	69,294.96	71,528.94	74,989.53	857,381.58
	M.D.M.T- Plaisance M.D.M.T- Plaisance	16,182.18	16,153.83	14,235.48	15,446.97	15,154.02	15,652.98	14,808.15	16,151.94	15,893.01	14,904.54	15,382.71	15,688.89	185,654.70
69	N. France (new)	133,808.22	140,186.97	131,147.10	147,340.62	143,893.26		288,045.45	141,468.39	144,603.90	137,616.57	127,376.55	120,398.67	1,655,885.70
	N. France(old) Trois Boutiques								-					
72	Trois Boutiques	93,517.20	88,527.60	82,555.20	98,884.80	78,094.80		190,559.25	89,744.76	90,924.12	88,202.52	91,300.23	88,761.96	1,081,072.44
73	PPER Alma					1	1		+					<u>-</u>
74	Beard	82,371.87	81,275.67	71,946.63	76,730.22	78,142.05	81,689.58	79,657.83	80,729.46	82,500.39	79,015.23	81,381.51	82,636.47	958,076.91
	Beard (new) Bonne Veine BH no1	,		/1,740.03	10,130.22	70,142.03	01,007.38	12,031.83	00,723.40	02,300.39	79,013.23	01,301.31	02,030.47	330,070.91
	Bonne Veine BH no1 Bonne Veine BH no2	24,796.80	23,889.60	7,522.20	25,401.60	20,185.20		50,582.07	24,579.45	24,469.83	23,541.84	23,985.99	23,076.90	272,031.48
78	Montee du Fil	50,123.23	47,741.40	31,978.80	49,669.20	39,576.60	43,545.60	47,968.20	40,597.20	31,356.92	42,834.96	44,808.12	43,560.72	513,760.95
79	Montee du Fil	1.,123.23	,,, .10	2 -,> / 0.00	.,,007.20	22,570.00	,5 .5.50	,>00.20	,577.20	2.,500.72	.=,0570	,000.72	,500.72	, , .

-MAV LOWER			1		Active Elect	trical Cost	(Rs)						
80 Bambou (Eau Bonne) BH No1													
81 Bambou (Eau Bonne) BH No2	171,636.57	171,710.28	159,272.19	179,166.33	173,906.46	179,916.66	173,615.40	179,829.72	179,015.13	171,889.83	175,036.68	169,442.28	2,084,437.53
82 Barkly (BH)	133,358.40	132,791.40	127,688.40	149,121.00	133,471.80	130,750.20	143,790.96	127,575.00	149,688.00	130,523.40	131,544.00	157,285.80	1,647,588.36
83 Barkly (SP)	155,556.40	132,791.40	127,000.40	149,121.00	133,471.60	130,730.20	143,790.90	127,373.00	149,000.00	130,323.40	131,344.00	137,263.60	1,047,388.30
84 Bassin BH No 1	66,906.00	123,039.00	117,482.40	134,492.40	121,111.20	114,647.40	128,482.20	113,173.20	119,750.40	125,193.60	141,863.40	168,512.40	1,474,653.60
85 Bassin BH No2	00,700.00	123,037.00	117,402.40	134,472.40	121,111.20	114,047.40	120,402.20	115,175.20	117,750.40	123,173.00	141,005.40	100,312.40	1,474,000.00
86 Bassin 717	138,136.32	180,857.88	180.857.88		323,350.65	196,535.43	224,125.65	273,069.09	248,737.23	242,742.15	171,143.28	271,698.84	2,451,254.40
87 Bassin 435	,	,	,		,	,	,	,	-,	,	. ,	. ,	, - ,
88 Chamarel BH													-
89 Clairfonds BH No.1 90 Clairfonds BH No.2	37,081.63	35,418.60	36,136.80	47,817.00	53,033.40	62,407.80	59,232.60	52,239.60	47,703.60	52,088.40	62,131.43	49,555.80	594,846.66
91 Ebene BH No1													
92 Ebene BH No2	18,937.80	18,333.00	18,257.40	21,054.60	17,652.60	18,370.80	21,659.40	15,422.40	22,046.53	18,514.44	18,801.72	18,523.89	227,574.58
93 Highlands	18,314.10	18,427.50	20,015.10	22,113.00	18,314,10	20,185.20	21 716 10	21,035.70	20,865.60	21,602.70	20,355.30	23,927.40	246,871.80
94 Highlands	18,314.10	18,427.30	20,013.10	22,113.00	18,314.10	20,183.20	21,716.10	21,033.70	20,803.00	21,002.70	20,333.30	23,927.40	240,071.00
95 Holyrood													
96 Holyrood													
97 Holyrood													
98 Holyrood	230,202.00	247,023.00	257,985.00	265,167.00	233,604.00	268,191.00	271,971.00	254,583.00	292,761.00	264,033.00	269,892.00	247,212.00	3,102,624.00
99 Holyrood	250,202.00	217,023.00	237,763.00	203,107.00	255,001.00	200,171.00	2/1,5/11.00	25 1,505.00	2,701.00	201,033.00	207,072.00	217,212.00	0,102,021.00
100 Holyrood													
101 Holyrood													
102 Holyrood													
103 Palma	25,375.14	26,571.51	23,940.63	26,112.24	25,507.44	26,403.30	25,668.09	26,686.80	26,671.68	25,823.07	26,677.35	25,728.57	311,165.82
104 Palmyre 26B	23,423.10	27,423.12	23,119.92	29,124.84	25,307.38	27,899.08	31,873.02	29,372.60	31,426.40	31,951.26	30,849.38		311,770.10
105 Palmyre 419	40.020.40	54.502.00	45.005.00	54.254.00	45.501.60	10.256.10	55.062.00	50.040.40	55.004.00	55.254.00	40.000.00		-
106 Palmyre (new) 827	49,030.40	54,702.80	47,335.20	54,376.80	47,791.60	49,356.40	57,962.80	52,942.40	55,094.00	57,376.00	48,900.00		574,868.40
107 Pont Fer (petit camp) BH No1 108 Pont Fer (petit camp) BH No2	19,580.40	20,412.00	23,549.40	22,528.80	20,071.80	20,676.60	22,566.60	22,642.20	19,618.20	23,133.60	20,941.20	22,264.20	257,985.00
109 Solferino BH	21,275.73	21,364.56	20,427.12	26,267.22	20,385.54	21,610.26	20,967.66	21,627.27	21,597.03	20,956.32	21,366.45	20,886.39	258,731.55
110 Solferino Candos	21,2/3./3	21,304.30	20,427.12	20,207.22	20,383.34	21,010.20	20,967.00	21,027.27	21,397.03	20,936.32	21,300.43	,	
111 Solferino Candos	19,164.60	20,128.50	21,602.70	17,690.40	17,520.30	19,731.60	19,788.30	18,994.50	22,283.10	20,638.80	21,035.70	20,752.20	239,330.70
112 Solferino Dookun													
113 Solferino Dookun	57,456.00	61,538.40	65,091.60	65,923.20	51,030.00	58,287.60	60,858.00	54,583.20	67,662.00	61,765.20	63,882.00	64,108.80	732,186.00
114 St Jean	17,905.86	19,022.85	17,369.10	18,943.47	17,835.93	19,327.14	18,848.97	19,614.42	19,599.30	18,733.68	19,540.71	22,084.65	228,826.08
115 St Jean	27,520100	27,022.00	,,,	20,7 12,11,	11,0001110	,	20,010,77	27,021.112	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	-
116 St Paul BH No1	25.099.03	23,662,80	21.848.40	26.384.40	31.752.00	35.532.00	54.658.80	43.167.60	23.587.20	33,188.40	33,490,80	25.401.60	377,773.03
117 St Paul BH No2	23,099.03	23,002.80	21,848.40	20,384.40	31,/32.00	33,332.00	34,038.80	43,107.00	23,387.20	33,188.40	33,490.80	23,401.60	311,113.03
118 Telfair	48,705.30	55,169.10	51,143.40	57,040.20	63,277.20	60,272.10	65,998.80	56,586.60	61,803.00	55,849.50	65,545.20	68,266.80	709,657.20
119 Telfair	10,705.50	55,107.10	51,115.10	57,010.20	05,277.20	00,272.10	05,770.00	50,500.00	01,005.00	55,017.50	05,515.20	00,200.00	-
120 Trianon	72,954.00	81,270.00	157,777.20	158,382.00	111,358.80	147,117.60	156,629.97	151,681.95	147,310.38	137,212.11	143,687.25	135,728.46	1,601,109.72
121 Trianon (New)	, ,	. ,	,	,	,	.,	,	. ,	.,.	,	- ,	,-	-
122 Valentina (Lower Phoenix) 123 Valentina (Lower Phoenix)	53,150.58	53,339.58	48,542.76	50,328.81	48,835.71	54,588.87	47,308.59	54,108.81	52,515.54	49,865.76	54,171.18	52,235.82	618,992.01
123 Valentina (Lower Phoenix) 124 Valentina (new)	30,655.80	31,676.40	32,356.80	34,549.20	31,185.00	33,037.20	39,690.00	31,033.80	35,456.40	36,174.60	33,868.80	39,690.00	409,374.00
125 Yemen	Í												
126 Yemen(OLD)	86,977.80	84,709.80	81,931.50	97,694.10	81,874.80	84,879.90	96,390.00	87,998.40	93,895.20	88,055.10	82,328.40	98,147.70	1,064,882.70
127 Yemen New	125,647.60	111,216.00	112,209.00	136,239.60	114,857.00	110,421.60	133,922.60	121,874.20	129,222.40	114,724.60	109,892.00	105,853.80	1,426,080.40
	5,262,966.66	5,708,730.47	5,151,220.86	5,398,641.75	5,345,070.46	5,256,952.01	5,930,563.80	5,574,423.86	5,730,279.49	5,640,508.34	5,642,069.82	5,747,031.30	64,251,844.06

S No	Site Name											2,004		Total 04
DIMO D		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
DWS- P	ort Louis Beau Bois BH	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,284	102,334
2	Beau Bois (New)	2,222	2,000	5,555	5,555	2,222	5,555	2,222	5,555	5,555	2,222	2,000	5,25	-
3	Beau Bois													-
4 5	Beau Songes	15,216	15,216	15,216	14,675	14,675	14,675	14,675	14,675	11,045	14,816	14,816	14,816	174,515
6	Beau Songes Petite Riviere	5,244	5,244	5,244	5,187	5,187	5,187	5,073	4,902	4,902	4,902	4,845	4,845	60,762
7	Pierrefonds	10,221	10,221	10,221	9,985	9,985	9,985	9,959	9,913	4,549	5,514	10,612	10,612	111,776
8	St Martin	5,130	5,130	5,130	5,130	5,130	5,130	5,130	5,757	5,757	5,757	5,757	12,825	71,763
9 DWS- N	St Martin	-,	2,223	2,223	2,223	-,	-,	2,121	-,,-,	-,,-,	2,727		,	-
10	B. Vue Mauricia	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	48,792
11	Bassin Loulou (Gallery)	1,000	,,,,,,	1,000	.,	.,,,,,	1,000	.,	1,000	1,000	1,000	.,,,,,	1,000	-
12	Bassin loulou (Jamblon)	3,724	3,724	3,724	3,724	3,610	3,610	3,496	3,496	3,496	3,477	3,477	3,230	42,788
13 14	Bassin Loulou (Robinson) Beau Plateau	1,900 4,560	1,900 3,230	22,800 40,090										
15	Bois Mangues (Old P.de Papayes)	3,306	3,306	3,306	3,306	3,306	3,306	3,306	2,964	3,002	3,002	3,002	3,002	38,114
16	Camp La Boue	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
17	Camp Thorel	10,561	10,561	10,561	10,561	10,561	10,545	10,545	10,545	10,545	10,545	16,052	16,054	137,637
18 19	Cottage (New) Cottage- Poonith	2,964 5,662	2,964 5,738	2,964 5,738	2,926 5,738	2,926 5,738	2,964 5,738	2,964 5,738	2,964 5,738	2,964 5,624	2,964 5,510	2,964 5,624	2,964 5,624	35,492 68,210
20	Esp.Trebuchet	0,002	3,730	5,750	5,750	5,750	0,700	3,730	5,750	3,024	3,310	5,024	5,024	-
21	F. Du Sac-Choisy	9,073	9,101	9,130	9,538	9,538	9,538	9,538	9,538	9,538	9,538	9,215	9,215	112,499
22	F. Du Sac-Choisy	•	·	,	,	· ·	*	,	,	· · ·	,		· ·	·
23 24	F. Du Sac-forbach Haute Rive	8,949 3,040	8,949 3,040	8,835 3,002	8,892 3,002	9,120 3,002	9,120 3,040	108,585 36,366						
25	La Clemence	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
26	Labourdonnais	1,957	1,957	1,957	1,957	1,957	1,938	1,938	1,900	1,900	1,900	1,900	1,900	23,161
27	Mapou	2,214	2,214	2,214	2,214	2,214	2,214	2,214	2,206	2,549	2,576	2,659	2,660	28,151
28 29	Mon Loisir MSA BH 117	5,155	5,155	5,155	5,155	4,710	4,711	4,711	4,748	4,748	4,748	4,748	4,748	58,492
30	MSA BH 117	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	2,318	2,318	2,318	2,318	24,472
31	MSA BH 306	7,714	7,714	7,572	7,572	7,524	7,192	7,192	7,192	7,192	7,192	7,192	7,192	88,436
32	MSA BH 309	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
33 34	MSA BH 309 P. Bon Espoir	14,805	14,871	14,880	15,003	15,129	15,129	15,129	15,129	15,129	15,129	15,129	15,217	180,678
35	P. D'Or (New)	10,260	10,260	10,260	10,203	10,203	10,203	10,203	10,203	10,260	10,260	10,260	10,260	122,835
36	P. D'Or No.1	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
37	P. D'Or No.2	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
38 39	P. D'Or No.3 P. D'Or No.4	3,382 3,648	3,335 3,639	3,335 3,639	3,297 3,620	3,297 3,620	3,297 3,610	3,297 3,610	3,297 3,620	3,297 3,620	3,297 3,620	3,297 3,620	3,297 3,620	39,720 43,482
40	Petite Retraite	,	,	,	,	,	ĺ	,	-,-	,	,	,	,	,
41	Petite Retraite	5,700	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,700	69,540
42	Riche Terre	1,900	1,900	1,900	1,900	1,900	1,900	2,014	2,014	2,014	2,014	2,014	2,014	23,484
43 44	Schoenfeld Schoenfeld	4,940	4,940	4,940	4,940	4,864	4,826	4,636	4,180	4,256	4,256	4,256	4,256	55,290
45	Solitude	3,762	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,762	47,424
DWS- E														-
46 47	B.Rose Clemencia no1 B.Rose Clemencia no2		19,347	19,490	19,490	19,490	19,490	19,490	19,490	19,490	18,968	19,379	19,379	213,504
48	B.Rose Clemencia no3		19,547	19,490	19,490	19,490	19,490	19,490	19,490	19,490	18,908	19,579	19,379	213,304
49	Bel Etang	3,078	3,078	2,736	2,679	2,679	2,679	2,679	2,679	3,135	3,135	3,135	3,135	34,827
50	Bonne Mere	10,156	10,156	10,156	10,156	10,156	9,947	9,947	10,232	10,298	10,298	10,298	10,298	122,094
51 52	Bonne Mere Camp Ithier	5,244	5,244	5,244	5,206	5,206	5,206	5,206	5,206	5,206	5,206	5,206	5,206	62,586
53	Caroline		15,770	15,770	15,390	15,390			18,620			18,620		,
54	Caroline	15,770	15,//0	15,770	15,390	15,390	18,620	18,620	18,620	18,620	18,620	18,620	18,620	208,430
55 56	Constance BH No1	11,630	11,639	11,639	11,639	11,639	11,653	11,713	11,713	11,713	11,713	11,713	11,713	140,116
56	Constance BH No2 Laventure	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
58	Petit Paquet	1,000	1,000	1,000	3,522	,,,,,,	1,000	1,000	1,000	1,000	1,000	.,,,,,	1,000	-
	ASON PUMPING STATIONS (N)													-
59 DWS S	Melrose BH													-
60	Choisy Baie du Cap New				1									-
61	Bananes	3,601	3,601	3,601	3,601	3,601	3,601	3,601	3,572	3,382	4,304	4,304	4,304	45,068
62	Café	1,900	1,900	1,900	2,242	2,242	2,242	2,242	2,242	2,242	2,242	1,900	1,900	25,194
63 64	Cluny Cluny	33,440	33,250	33,250	32,680	32,680	32,870	33,820	33,820	34,200	34,200	34,200	34,200	402,610
65	Cluny	J3, 44 0	33,230	33,230	32,000	32,000	32,010	33,020	33,020	34,200	54,200	54,200	34,200	402,010
66	Gebert	6,308	6,308	6,308	6,308	6,308	6,308	12,920	12,920	12,920	12,920	-	38,912	128,440
67	M.D.M.T- Plaisance	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
68 69	M.D.M.T- Plaisance N. France (new)	14,678	14,678	14,678	13,367	13,367	13,367	11,115	11,115	11,115	11,068	11,068	11,068	150,680
70	N. France (new)	14,078	14,078	14,078	13,30/	13,30/	13,307	11,113	11,113	11,113	11,008	11,008	11,000	150,060
71	Trois Boutiques	7,676	7,676	7,676	7,600	7,676	7,676	7,676	7,676	7,752	7,752	7,752	7,752	92,340
72	Trois Boutiques	7,070	7,070	7,070	7,000	7,070	7,070	7,070	7,070	1,132	1,134	1,134	1,134	12,340

-MAV UPP	ER								1					-
73	Alma													_
74	Beard	14.920	14.820	14.820	10.716	10.716	10.602	10.374	(995	0.260	8.369	8.369	0.260	127 227
75	Beard (new)	14,820	14,820	14,820	10,716	10,716	10,602	10,3 /4	6,885	8,369	8,369	8,369	8,369	127,227
76	Bonne Veine BH no1													-
77	Bonne Veine BH no2													-
78	Montee du Fil	7,410	7.410	13.110	13,110	13.110	13.110	13.110	13.110	13.110	7.980	7.980	7.980	130.530
79	Montee du Fil	7,110	7,110	13,110	13,110	13,110	13,110	13,110	13,110	13,110	7,700	7,700	7,700	
DWS-MA														-
80 81	Bambou (Eau Bonne) BH No1 Bambou (Eau Bonne) BH No2	13,262	13,262	13,262	13,001	13,136	13,291	13,291	13,291	13,291	13,291	13,291	13,291	158,963
82	Barkly (BH)													
83	Barkly (SP)	17,670	17,442	17,442	17,442	17,442	15,846	14,250	14,250	14,250	14,250	9,234	10,488	180,006
84	Bassin BH No 1	12.221	12.221	12.500	12.500	12.600	12 501	12.501	42.504	12.501	42.504	42.504	12.501	151015
85	Bassin BH No2	13,224	13,224	13,680	13,680	13,680	13,794	13,794	13,794	13,794	13,794	13,794	13,794	164,046
86	Bassin 717	14,801	14,801	14,801	14,801	14,801	14,801	14,763	8,379	8,265	8,265	13,965	13,965	156,408
87	Bassin 435	14,001	14,001	14,601	14,001	14,001	14,001	14,703	0,379	6,203	8,203	13,903	13,903	150,408
88	Chamarel BH													-
89	Clairfonds BH No.1	6,460	6,460	3,952	6,802	6,840	6,840	6,840	6,840	6,840	6,840	6,840	6,650	78,204
90	Clairfonds BH No.2	-	-	-	-	•	-	-		-	-			
91 92	Ebene BH No1 Ebene BH No2	1,900	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,318	1,900	1,900	1,900	29,602
93	Highlands													
94	Highlands	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,223	2,223	1,995	1,995	32,148
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	18,810	19,190	19,190	19,190	22,800	22,800	22,800	22,800	22,800	22,800	24,890	24,890	262,960
99	Holyrood	-,-	.,	.,	, , , ,	,	,	,	,	,	,,,,,	,	,	. ,
100 101	Holyrood													
101	Holyrood Holyrood													
102	Palma	1,911	1,941	1,941	1,941	1,941	1,941	1,941	1,941	1,910	1,910	1,910	1,911	23,140
104	Palmyre 26B	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,710	1,710	1,710	1,711	-
105	Palmyre 419													-
106	Palmyre (new) 827													-
107	Pont Fer (petit camp) BH No1	4,712	4,712	4,712	4,712	4,712	4,712	4,712	2,812	2,812	2,812	2,812	2,660	46,892
108	Pont Fer (petit camp) BH No2	-	Ť.	•	-	-				•	,		-	-
109	Solferino BH	2,214	2,214	2,214	2,214	2,214	2,736	2,736	2,736	2,736	2,736	2,746	2,746	30,239
110	Solferino Candos	2,337	2,337	2,280	2,280	3,591	4,047	4,047	4,047	4,047	4,047	4,047	4,047	41,154
111 112	Solferino Candos Solferino Dookun													
113	Solferino Dookun	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,712	58,216
114	St Jean													
115	St Jean	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
116	St Paul BH No1	4,256	4,256	4,256	5,396	5,396	5,396	5,396	5,396	5,396	5,396	4,560	4,560	59,660
117	St Paul BH No2	4,230	4,230	4,230	3,390	3,390	3,390	3,390	3,390	3,390	3,390	4,300	4,300	39,000
118	Telfair	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	6,954	86,583
119	Telfair	,,	,,,	.,	,,	,,==>	,,,	-,	,,	-,	7,==7	-,	*,,**	
120	Trianon	6,726	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	11,552	84,968
121 122	Trianon (New) Valentina (Lower Phoenix)		+						 					
123	Valentina (Lower Phoenix) Valentina (Lower Phoenix)	3,914	3,914	3,924	3,933	3,933	3,933	3,933	3,943	3,962	3,962	3,962	3,962	47,272
124	Valentina (Lower Frideritx) Valentina (new)	2,622	2,698	2,736	2,736	2,736	2,812	2,812	2,812	2,812	2,812	2,812	2,812	33,212
125	Yemen					,	·	•			, , ,			
126	Yemen(OLD)	6,897	7,638	7,638	7,638	7,638	7,638	7,638	7,638	6,897	8,265	8,265	8,265	92,055
127	Yemen New	8,272	8,272	8,140	8,140	8,140	8,140	8,140	8,140	8,140	7,030	7,030	6,802	94,386
		483,137	503,055	506,105	503,252	508,093	508,997	510,580	498,685	490,679	490,372	484,647	536,248	6,023,850

S No	Site Name											2,005		Total 05
DWO D	ant Laure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1 DWS- PC	ort Louis Beau Bois BH	8,132	8,132	8,056	8,056	8,056	8,056	7,866	8,550	8,550	8,550	8,550	8,550	99,104
2	Beau Bois (New)	3,702	3,132	3,000	3,000	3,000	3,000	1,000	3,000	3,000	5,000	3,555	5,000	-
3	Beau Bois	11.010	11.010	45.004	45.004	45.440	45.440	15.110	15.110	15.110	15.010	15.010	15.010	-
4 5	Beau Songes Beau Songes	14,816	14,816	15,391	15,391	15,416	15,416	15,416	15,416	15,416	15,649	15,649	15,649	184,441
6	Petite Riviere	4,845	4,845	4,845	4,845	4,845	4,845	4,845	5,016	5,073	5,130	5,130	5,130	59,394
7	Pierrefonds St Martin	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	159,520
9	St Martin	12,825	12,825	12,825	12,825	12,825	12,825	12,825	4,902	4,902	4,902	4,902	4,902	114,285
DWS- N	ORTH													-
10 11	B. Vue Mauricia Bassin Loulou (Gallery)	3,686	3,724	3,724	3,724	3,724	4,104	4,104	4,104	4,104	4,104	4,104	4,104	47,310
12	Bassin Louiou (Gallery) Bassin loulou (Jamblon)													<u>-</u>
13	Bassin Loulou (Robinson)	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
14 15	Beau Plateau Bois Mangues (Old P.de Papayes)	3,230 3,002	3,192 3,002	3,192 2,926	3,192 2,926	3,154 2,926	38,570 35,796							
16	Camp La Boue	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
17	Camp Thorel	16,054	16,054	16,072	16,072	16,090	16,090	16,090	16,090	16,918	16,918	16,918	16,918	196,283
18 19	Cottage (New) Cottage- Poonith	2,926	3,420 11,248	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,344 5,700	3,344 5,586	3,344 4,826	4,560 4,826	41,458 66,386
20	Esp.Trebuchet		11,240	3,700	3,700	3,700	3,700	3,700	3,700	3,700	5,560	7,020	7,020	
21	F. Du Sac-Choisy	9,215	9,320	9,358	9,358	9,358	9,358	9,358	9,358	9,719	9,719	9,719	9,719	113,554
22 23	F. Du Sac-Choisy F. Du Sac-forbach	8,835	8,835	8,265	8,265	8,265	8,778	8,778	8,778	8,778	8,778	8,778	8,778	103,911
24	Haute Rive	-	6,080	5,890	5,890	5,890	5,890	5,890	5,890	5,890	3,154	3,154	3,154	56,772
25	La Clemence	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
26 27	Labourdonnais Mapou	1,900 2,674	1,910 2,725	2,195 2,725	2,195 2,725	2,195 2,761	2,195 2,761	2,195 2,761	2,195 2,761	2,195 2,761	2,176 2,761	2,176 2,761	2,176 2,734	25,698 32,907
28	Mon Loisir	4,748	4,748	4,738	4,738	4,738	4,697	4,697	4,682	4,682	4,682	4,677	4,677	56,501
29	MSA BH 117	2,318	2,318	2,318	2,280	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	24,738
30 31	MSA BH 117 MSA BH 306	7,106	7,068	6,992	6,964	6,926	6,926	6,869	6,821	6,555	6,555	6,555	6,517	81,852
32	MSA BH 309	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
33	MSA BH 309	_	,	-	,	,	-	*	,		,	· ·	,	·
34 35	P. Bon Espoir P. D'Or (New)	15,217 10,260	15,267 10,260	15,267 10,260	15,267 10,146	15,267 10,146	15,267 10,146	15,267 10,146	15,267 10,146	15,186 10,146	14,900 10,146	14,900 10,203	13,436 10,260	180,510 122,265
36	P. D'Or No.1	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
37	P. D'Or No.2	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
38 39	P. D'Or No.3 P. D'Or No.4	3,287 3,620	3,078 3,620	3,069 3,610	3,059 3,610	3,031 3,572	3,031 3,654	3,040 3,670	3,040 3,695	3,040 3,695	3,040 3,695	3,040 3,695	3,040 3,695	36,794 43,827
40	Petite Retraite	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	20,214	20,214	97,428
41	Petite Retraite	_	·		1		-	·			·	· ·	· ·	·
42 43	Riche Terre Schoenfeld	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	1,976	24,130
44	Schoenfeld	4,256	4,256	4,256	4,484	4,484	4,522	4,522	4,522	4,522	4,522	4,522	4,522	53,390
45 DWS- E /	Solitude	3,800	3,876	3,876	3,876	3,914	3,914	3,914	3,914	3,914	3,914	3,914	3,990	46,816
46	B.Rose Clemencia no1													
47	B.Rose Clemencia no2	19,575	19,713	21,017	21,017	21,017	21,017	21,017	21,017	21,017	18,584	20,623	20,623	246,234
48 49	B.Rose Clemencia no3 Bel Etang	3,135	3,135	3,135	2,679	2,679	2,679	2,622	2,622	5,016	5,016	5,016	5,016	42,750
50	Bonne Mere	10,298	11,771	11,771	11,771	11,771	11,771	11,771	11,771	11,771	9,823	9,823	9,823	133,931
51	Bonne Mere	· ·	·		-	-	-	•	-	-		· ·	-	·
52 53	Camp Ithier Caroline	5,206	5,206	5,206	5,206	5,206	5,206	5,206	13,530	13,530	13,530	13,530	13,530	104,092
54	Caroline	18,430	29,450	29,450	29,450	30,400	35,910	35,910	35,910	35,910	35,910	35,910	35,910	388,550
55 56	Constance BH No1	11,713	11,694	21,074	21,285	21,296	21,296	21,296	21,296	21,325	21,346	21,466	21,568	236,654
56 57	Constance BH No2 Laventure	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,925	1,925	1,942	1,942	22,933
58	Petit Paquet	,	,,,,,,	,,,,,	,	,,,,,,	,	,		,,	, ,	,	,	-
DRY SE	ASON PUMPING STATIONS (N) Melrose BH													-
DWS SO														-
60	Choisy Baie du Cap New													-
61 62	Bananes Café	4,304 1,900	4,304 2,242	4,304 2,242	4,304 2,242	4,190 2,242	3,620	3,610 4,484	3,610 2,242	3,411 2,242	4,133 2,242	4,133 2,242	4,133 1,900	48,051 26,220
63	Cluny	1,900	2,242	2,242	2,242	2,242	-	4,404	2,242	2,242	2,242	2,242	1,900	20,220
64	Cluny	34,390	34,770	34,770	35,340	35,340	35,340	35,340	35,340	35,340	35,340	34,390	31,730	417,430
65 66	Cluny Gebert	19,456	19,456	19,456	19,456	19,456	12,920	12,920	12,920	12,920	12,920	12,920	5,140	179,940
67	M.D.M.T- Plaisance		1,900	1,900	1,900			1,900		1,948	1,948	1,948	1,976	
68	M.D.M.T- Plaisance	1,900	·		1	1,900	1,900	·	1,900		·	· ·		23,019
69 70	N. France (new) N. France(old)	10,897	10,897	11,087	11,172	11,343	-	22,686	11,343	11,343	11,343	11,343	11,039	134,492
71	Trois Boutiques	7,752	7,752	7,752	7,752	7,752		15,504	7,752	7,752	7,752	7,752	7,657	92,929
72	Trois Boutiques	1,132	1,134	1,134	1,134	1,132	-	13,304	1,134	1,134	1,134	1,132	1,037	74,749

-MAV UPP	ER													_
73	Alma													-
74	Beard	0.260	0.260	0.260	6.604	= 41.1		- c11	- c++	- c	7.614	=	6.60=	04.504
75	Beard (new)	8,369	8,369	8,369	6,684	7,614	7,614	7,614	7,614	7,614	7,614	7,614	6,697	91,786
76	Bonne Veine BH no1													-
77	Bonne Veine BH no2													_
78	Montee du Fil													
79	Montee du Fil	7,980	7,866	5,358	5,358	5,358	5,358	5,358	5,358	8,549	8,549	8,549	8,549	82,190
DWS-MAV														_
80	Bambou (Eau Bonne) BH No1	12.205	12.200		44.454	44.5	11.154	44.45	44.5		12.055	42.055	42.055	
81	Bambou (Eau Bonne) BH No2	13,285	13,399	14,476	14,476	14,476	14,476	14,476	14,476	14,476	13,857	13,857	13,857	169,586
82	Barkly (BH)	25.650	25.650	25.650	25.650	25.650	25.650	25.650	10.400	10.400	10.400	10.400	10.400	221 000
83	Barkly (SP)	25,650	25,650	25,650	25,650	25,650	25,650	25,650	10,488	10,488	10,488	10,488	10,488	231,990
84	Bassin BH No 1	12.566	12.566	12.566	12.566	13,566	12 110	10,602	9,804	0.010	0.010	12,084	12.004	145.250
85	Bassin BH No2	13,566	13,566	13,566	13,566	13,366	13,110	10,602	9,804	9,918	9,918	12,084	12,084	145,350
86	Bassin 717	14,127	14,127	14,127		34,637	20,511	20,637	21,007	21,007	23,333	24,756	24,756	233,024
87	Bassin 435	14,127	14,127	14,127	-	34,037	20,311	20,637	21,007	21,007	23,333	24,736	24,730	233,024
88	Chamarel BH													-
89	Clairfonds BH No.1	6,650	6,650	6,156	5,928	6,650	6,650	6,650	6,650	6,650	6,650	10,737	10,737	86,758
90	Clairfonds BH No.2	0,030	0,030	0,130	3,720	0,030	0,030	0,030	0,030	0,030	0,030	10,737	10,737	60,736
91	Ebene BH No1	2,584	2,584	2,584	2,584	4,522	4,522	4,522	4,522	5,884	5,884	5,884	5,884	51,961
92	Ebene BH No2	2,501	2,501	2,501	2,501	1,522	1,522	1,522	1,522	5,001	2,001	5,001	3,001	51,701
93	Highlands	2,052	2,052	2,052	2,052	2,052	2,052	2,052	1,938	1,938	1,938	1,938	1,938	24,054
94	Highlands	2,002	2,002	2,002	2,002	2,002	2,002	2,002	1,750	1,,50	1,,500	1,,,,,	1,750	21,001
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	24,890	24.890	24.890	24,890	24.890	23.750	23,750	23,750	23.750	25.080	25,080	25,080	294,690
99	Holyrood	= -,	- 1,070	= -,	,	,				==,,,,,			,,,,,,	_,,,,,,
100	Holyrood													
101	Holyrood													
102	Holyrood	1.02.1	1.021	1065	4.045	1.065	1.065	1065	4.055	1.065	4.040	4.040	1.010	
103	Palma	1,934	1,934	1,965	1,965	1,965	1,965	1,965	1,965	1,965	1,918	1,918	1,918	23,375
104 105	Palmyre 26B											4.000	4.000	3,800
105	Palmyre 419											1,900	1,900	,
106	Palmyre (new) 827 Pont Fer (petit camp) BH No1													-
107	Pont Fer (petit camp) BH No2	2,660	2,660	2,660	1,976	2,090	2,090	2,090	2,090	2,090	2,090	2,090	1,900	26,486
109	Solferino BH	2,746	2,755	2,765	2,774	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,784	34,571
110	Solferino Candos					,				,				
111	Solferino Candos	2,622	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	28,329
112	Solferino Dookun													
113	Solferino Dookun	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,712	4,712	4,712	4,712	4,712	57,608
114	St Jean													
115	St Jean	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	2,708	23,608
116	St Paul BH No1	4.550	4.550	4.500	4.500	4010	4.040	4040	4040	4010	4.040	4010	4.10.1	56.00:
117	St Paul BH No2	4,560	4,560	4,560	4,560	4,940	4,940	4,940	4,940	4,940	4,940	4,940	4,104	56,924
118	Telfair	6,954	6,441	6,441	6,384	6,441	6,441	6,441	6,441	6,669	6,669	6,669	6.660	70.660
119	Telfair	0,934	0,441	0,441	0,384	0,441	0,441	0,441	0,441	0,009	0,009	0,009	6,669	78,660
120	Trianon	11,552	11,552	11,552	11,552	11,552	11,552	12,170	12,170	12,170	12,170	12,170	12,170	142,335
121	Trianon (New)	11,332	11,332	11,332	11,332	11,332	11,332	12,170	12,170	12,1/0	12,170	12,170	12,170	142,333
122	Valentina (Lower Phoenix)	3,962	3,962	3,971	4,019	4,019	4,019	4,019	4,019	4,019	4,019	4,000	3,981	48,004
123	Valentina (Lower Phoenix)	,	,		, i	· ·	,	,	· ·		,	, ,	· ·	,
124	Valentina (new)	2,774	2,622	2,622	2,622	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	33,136
125	Yemen	8,265	8,265	8,265	8,265	8,151	7,011	7,011	7,011	7,011	7,068	7,068	8,835	92,226
126	Yemen(OLD)	· ·	-		·	•	-	,		•	,	, ,	•	-
127	Yemen New	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	97,152
		537,704	568,000	571,426	555,152	594,884	556,061	596,684	545,547	553,521	549,990	574,580	563,705	6,767,255

S No	Site Name											2,004		Total 04
DIMO D		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
DWS- P	ort Louis Beau Bois BH	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,550	8,284	102,334
2	Beau Bois (New)	2,222	2,000	5,000	5,555	2,222	5,555	2,222	5,555	5,555	2,222	2,000	5,25	-
3	Beau Bois													-
4 5	Beau Songes	15,216	15,216	15,216	14,675	14,675	14,675	14,675	14,675	11,045	14,816	14,816	14,816	174,515
6	Beau Songes Petite Riviere	5,244	5,244	5,244	5,187	5,187	5,187	5,073	4,902	4,902	4,902	4,845	4,845	60,762
7	Pierrefonds	10,221	10,221	10,221	9,985	9,985	9,985	9,959	9,913	4,549	5,514	10,612	10,612	111,776
8	St Martin	5,130	5,130	5,130	5,130	5,130	5,130	5,130	5,757	5,757	5,757	5,757	12,825	71,763
9 DWS- N	St Martin	-,	2,223	2,223	2,223	-,	-,	2,121	-,,-,	-,,-,	2,727		,	-
10	B. Vue Mauricia	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	4,066	48,792
11	Bassin Loulou (Gallery)	1,000	,,,,,,	1,000	.,	,,,,,,	1,000	.,	1,000	1,000	1,000	.,,,,,	1,000	-
12	Bassin loulou (Jamblon)	3,724	3,724	3,724	3,724	3,610	3,610	3,496	3,496	3,496	3,477	3,477	3,230	42,788
13 14	Bassin Loulou (Robinson) Beau Plateau	1,900 4,560	1,900 3,230	22,800 40,090										
15	Bois Mangues (Old P.de Papayes)	3,306	3,306	3,306	3,306	3,306	3,306	3,306	2,964	3,002	3,002	3,002	3,002	38,114
16	Camp La Boue	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
17	Camp Thorel	10,561	10,561	10,561	10,561	10,561	10,545	10,545	10,545	10,545	10,545	16,052	16,054	137,637
18 19	Cottage (New) Cottage- Poonith	2,964 5,662	2,964 5,738	2,964 5,738	2,926 5,738	2,926 5,738	2,964 5,738	2,964 5,738	2,964 5,738	2,964 5,624	2,964 5,510	2,964 5,624	2,964 5,624	35,492 68,210
20	Esp.Trebuchet	0,002	3,730	5,750	3,730	5,750	0,700	3,730	3,700	3,024	3,310	5,024	5,024	-
21	F. Du Sac-Choisy	9,073	9,101	9,130	9,538	9,538	9,538	9,538	9,538	9,538	9,538	9,215	9,215	112,499
22	F. Du Sac-Choisy	•	·	,	,	· ·	*	,	,	· · ·	,		· ·	·
23 24	F. Du Sac-forbach Haute Rive	8,949 3,040	8,949 3,040	8,835 3,002	8,892 3,002	9,120 3,002	9,120 3,040	108,585 36,366						
25	La Clemence	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
26	Labourdonnais	1,957	1,957	1,957	1,957	1,957	1,938	1,938	1,900	1,900	1,900	1,900	1,900	23,161
27	Mapou	2,214	2,214	2,214	2,214	2,214	2,214	2,214	2,206	2,549	2,576	2,659	2,660	28,151
28 29	Mon Loisir MSA BH 117	5,155	5,155	5,155	5,155	4,710	4,711	4,711	4,748	4,748	4,748	4,748	4,748	58,492
30	MSA BH 117	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	2,318	2,318	2,318	2,318	24,472
31	MSA BH 306	7,714	7,714	7,572	7,572	7,524	7,192	7,192	7,192	7,192	7,192	7,192	7,192	88,436
32	MSA BH 309	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
33 34	MSA BH 309 P. Bon Espoir	14,805	14,871	14,880	15,003	15,129	15,129	15,129	15,129	15,129	15,129	15,129	15,217	180,678
35	P. D'Or (New)	10,260	10,260	10,260	10,203	10,203	10,203	10,203	10,203	10,260	10,260	10,260	10,260	122,835
36	P. D'Or No.1	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
37	P. D'Or No.2	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
38 39	P. D'Or No.3 P. D'Or No.4	3,382 3,648	3,335 3,639	3,335 3,639	3,297 3,620	3,297 3,620	3,297 3,610	3,297 3,610	3,297 3,620	3,297 3,620	3,297 3,620	3,297 3,620	3,297 3,620	39,720 43,482
40	Petite Retraite	,	,	,	,	,	ĺ	,	-,-	,	,	,	,	,
41	Petite Retraite	5,700	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,814	5,700	69,540
42	Riche Terre	1,900	1,900	1,900	1,900	1,900	1,900	2,014	2,014	2,014	2,014	2,014	2,014	23,484
43 44	Schoenfeld Schoenfeld	4,940	4,940	4,940	4,940	4,864	4,826	4,636	4,180	4,256	4,256	4,256	4,256	55,290
45	Solitude	3,762	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,990	3,762	47,424
DWS- E														-
46 47	B.Rose Clemencia no1 B.Rose Clemencia no2		19,347	19,490	19,490	19,490	19,490	19,490	19,490	19,490	18,968	19,379	19,379	213,504
48	B.Rose Clemencia no3		19,547	19,490	19,490	19,490	19,490	19,490	19,490	19,490	18,908	19,579	19,379	213,304
49	Bel Etang	3,078	3,078	2,736	2,679	2,679	2,679	2,679	2,679	3,135	3,135	3,135	3,135	34,827
50	Bonne Mere	10,156	10,156	10,156	10,156	10,156	9,947	9,947	10,232	10,298	10,298	10,298	10,298	122,094
51 52	Bonne Mere Camp Ithier	5,244	5,244	5,244	5,206	5,206	5,206	5,206	5,206	5,206	5,206	5,206	5,206	62,586
53	Caroline		15,770	15,770	15,390	15,390			18,620			18,620		,
54	Caroline	15,770	15,//0	15,770	15,390	15,390	18,620	18,620	18,620	18,620	18,620	18,620	18,620	208,430
55 56	Constance BH No1	11,630	11,639	11,639	11,639	11,639	11,653	11,713	11,713	11,713	11,713	11,713	11,713	140,116
56	Constance BH No2 Laventure	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
58	Petit Paquet	1,000	1,000	1,000	3,522	,,,,,,	1,000	1,000	1,000	1,000	1,000	.,,,,,	1,000	-
	ASON PUMPING STATIONS (N)													-
59 DWS S	Melrose BH													-
60	Choisy Baie du Cap New				1									-
61	Bananes	3,601	3,601	3,601	3,601	3,601	3,601	3,601	3,572	3,382	4,304	4,304	4,304	45,068
62	Café	1,900	1,900	1,900	2,242	2,242	2,242	2,242	2,242	2,242	2,242	1,900	1,900	25,194
63 64	Cluny Cluny	33,440	33,250	33,250	32,680	32,680	32,870	33,820	33,820	34,200	34,200	34,200	34,200	402,610
65	Cluny	J3, 44 0	33,230	33,230	32,000	32,000	32,010	33,020	33,020	34,200	54,200	54,200	54,200	402,010
66	Gebert	6,308	6,308	6,308	6,308	6,308	6,308	12,920	12,920	12,920	12,920	-	38,912	128,440
67	M.D.M.T- Plaisance	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
68 69	M.D.M.T- Plaisance N. France (new)	14,678	14,678	14,678	13,367	13,367	13,367	11,115	11,115	11,115	11,068	11,068	11,068	150,680
70	N. France (new)	14,078	14,078	14,078	13,30/	13,30/	13,307	11,113	11,113	11,113	11,008	11,008	11,000	150,060
71	Trois Boutiques	7,676	7,676	7,676	7,600	7,676	7,676	7,676	7,676	7,752	7,752	7,752	7,752	92,340
72	Trois Boutiques	7,070	7,070	7,070	7,000	7,070	7,070	7,070	7,070	1,132	1,134	1,134	1,134	12,340

-MAV UPP	ER								1					-
73	Alma													_
74	Beard	14 920	14.820	14.820	10.716	10.716	10.602	10.374	(995	0.260	8.369	8.369	0.260	127 227
75	Beard (new)	14,820	14,820	14,820	10,716	10,716	10,602	10,3 /4	6,885	8,369	8,369	8,369	8,369	127,227
76	Bonne Veine BH no1													-
77	Bonne Veine BH no2													-
78	Montee du Fil	7,410	7.410	13.110	13,110	13.110	13.110	13.110	13.110	13.110	7.980	7.980	7.980	130.530
79	Montee du Fil	7,110	7,110	13,110	13,110	13,110	13,110	13,110	13,110	13,110	7,700	7,700	7,700	
DWS-MA														-
80 81	Bambou (Eau Bonne) BH No1 Bambou (Eau Bonne) BH No2	13,262	13,262	13,262	13,001	13,136	13,291	13,291	13,291	13,291	13,291	13,291	13,291	158,963
82	Barkly (BH)													
83	Barkly (SP)	17,670	17,442	17,442	17,442	17,442	15,846	14,250	14,250	14,250	14,250	9,234	10,488	180,006
84	Bassin BH No 1	12.221	12.221	12.500	12.500	12.600	12 501	12.501	42.504	12.501	42.504	42.504	12.501	151015
85	Bassin BH No2	13,224	13,224	13,680	13,680	13,680	13,794	13,794	13,794	13,794	13,794	13,794	13,794	164,046
86	Bassin 717	14,801	14,801	14,801	14,801	14,801	14,801	14,763	8,379	8,265	8,265	13,965	13,965	156,408
87	Bassin 435	14,001	14,001	14,601	14,001	14,001	14,001	14,703	0,379	6,203	8,203	13,903	13,903	150,408
88	Chamarel BH													-
89	Clairfonds BH No.1	6,460	6,460	3,952	6,802	6,840	6,840	6,840	6,840	6,840	6,840	6,840	6,650	78,204
90	Clairfonds BH No.2	-	-	-	-	•	-	-		-	-			
91 92	Ebene BH No1 Ebene BH No2	1,900	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,318	1,900	1,900	1,900	29,602
93	Highlands													
94	Highlands	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,223	2,223	1,995	1,995	32,148
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	18,810	19,190	19,190	19,190	22,800	22,800	22,800	22,800	22,800	22,800	24,890	24,890	262,960
99	Holyrood	-,-	.,	.,	, , , ,	,	,	,	,	,	,,,,,	,	,	. ,
100 101	Holyrood													
101	Holyrood Holyrood													
102	Palma	1,911	1,941	1,941	1,941	1,941	1,941	1,941	1,941	1,910	1,910	1,910	1,911	23,140
104	Palmyre 26B	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,711	1,710	1,710	1,710	1,711	-
105	Palmyre 419													-
106	Palmyre (new) 827													-
107	Pont Fer (petit camp) BH No1	4,712	4,712	4,712	4,712	4,712	4,712	4,712	2,812	2,812	2,812	2,812	2,660	46,892
108	Pont Fer (petit camp) BH No2	-	Ť.	•	-	-				•	,		-	-
109	Solferino BH	2,214	2,214	2,214	2,214	2,214	2,736	2,736	2,736	2,736	2,736	2,746	2,746	30,239
110	Solferino Candos	2,337	2,337	2,280	2,280	3,591	4,047	4,047	4,047	4,047	4,047	4,047	4,047	41,154
111 112	Solferino Candos Solferino Dookun													
113	Solferino Dookun	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,712	58,216
114	St Jean													
115	St Jean	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
116	St Paul BH No1	4,256	4,256	4,256	5,396	5,396	5,396	5,396	5,396	5,396	5,396	4,560	4,560	59,660
117	St Paul BH No2	4,230	4,230	4,230	3,390	3,390	3,390	3,390	3,390	3,390	3,390	4,300	4,300	39,000
118	Telfair	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	7,239	6,954	86,583
119	Telfair	,,	,,,	.,	,,	,,==>	,,,	-,	,,	-,	7,==7	-,	*,,**	00,000
120	Trianon	6,726	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	6,669	11,552	84,968
121 122	Trianon (New) Valentina (Lower Phoenix)		+						 					
123	Valentina (Lower Phoenix) Valentina (Lower Phoenix)	3,914	3,914	3,924	3,933	3,933	3,933	3,933	3,943	3,962	3,962	3,962	3,962	47,272
124	Valentina (Lower Frideritx) Valentina (new)	2,622	2,698	2,736	2,736	2,736	2,812	2,812	2,812	2,812	2,812	2,812	2,812	33,212
125	Yemen					,	·	•			, , ,			
126	Yemen(OLD)	6,897	7,638	7,638	7,638	7,638	7,638	7,638	7,638	6,897	8,265	8,265	8,265	92,055
127	Yemen New	8,272	8,272	8,140	8,140	8,140	8,140	8,140	8,140	8,140	7,030	7,030	6,802	94,386
		483,137	503,055	506,105	503,252	508,093	508,997	510,580	498,685	490,679	490,372	484,647	536,248	6,023,850

S No	Site Name											2,005		Total 05
DWO D	ant Laure	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1 DWS- PC	ort Louis Beau Bois BH	8,132	8,132	8,056	8,056	8,056	8,056	7,866	8,550	8,550	8,550	8,550	8,550	99,104
2	Beau Bois (New)	3,700	3,132	3,000	3,000	3,000	3,000	1,000	3,000	3,000	5,000	3,555	5,000	-
3	Beau Bois	11.010	11.010	45.004	45.004	45.440	45.440	15.110	15.110	15.110	15.010	15.010	15.010	-
4 5	Beau Songes Beau Songes	14,816	14,816	15,391	15,391	15,416	15,416	15,416	15,416	15,416	15,649	15,649	15,649	184,441
6	Petite Riviere	4,845	4,845	4,845	4,845	4,845	4,845	4,845	5,016	5,073	5,130	5,130	5,130	59,394
7	Pierrefonds St Martin	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	13,293	159,520
9	St Martin	12,825	12,825	12,825	12,825	12,825	12,825	12,825	4,902	4,902	4,902	4,902	4,902	114,285
DWS- N	ORTH													-
10 11	B. Vue Mauricia Bassin Loulou (Gallery)	3,686	3,724	3,724	3,724	3,724	4,104	4,104	4,104	4,104	4,104	4,104	4,104	47,310
12	Bassin Louiou (Gallery) Bassin loulou (Jamblon)													<u>-</u>
13	Bassin Loulou (Robinson)	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
14 15	Beau Plateau Bois Mangues (Old P.de Papayes)	3,230 3,002	3,192 3,002	3,192 2,926	3,192 2,926	3,154 2,926	38,570 35,796							
16	Camp La Boue	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
17	Camp Thorel	16,054	16,054	16,072	16,072	16,090	16,090	16,090	16,090	16,918	16,918	16,918	16,918	196,283
18 19	Cottage (New) Cottage- Poonith	2,926	3,420 11,248	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,420 5,700	3,344 5,700	3,344 5,586	3,344 4,826	4,560 4,826	41,458 66,386
20	Esp.Trebuchet		11,240	3,700	3,700	3,700	3,700	3,700	3,700	3,700	5,560	7,020	7,020	
21	F. Du Sac-Choisy	9,215	9,320	9,358	9,358	9,358	9,358	9,358	9,358	9,719	9,719	9,719	9,719	113,554
22 23	F. Du Sac-Choisy F. Du Sac-forbach	8,835	8,835	8,265	8,265	8,265	8,778	8,778	8,778	8,778	8,778	8,778	8,778	103,911
24	Haute Rive	-	6,080	5,890	5,890	5,890	5,890	5,890	5,890	5,890	3,154	3,154	3,154	56,772
25	La Clemence	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
26 27	Labourdonnais Mapou	1,900 2,674	1,910 2,725	2,195 2,725	2,195 2,725	2,195 2,761	2,195 2,761	2,195 2,761	2,195 2,761	2,195 2,761	2,176 2,761	2,176 2,761	2,176 2,734	25,698 32,907
28	Mon Loisir	4,748	4,748	4,738	4,738	4,738	4,697	4,697	4,682	4,682	4,682	4,677	4,677	56,501
29	MSA BH 117	2,318	2,318	2,318	2,280	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	24,738
30 31	MSA BH 117 MSA BH 306	7,106	7,068	6,992	6,964	6,926	6,926	6,869	6,821	6,555	6,555	6,555	6,517	81,852
32	MSA BH 309	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
33	MSA BH 309	_	,	-	,	,	-	*	,	·	,	· ·	,	
34 35	P. Bon Espoir P. D'Or (New)	15,217 10,260	15,267 10,260	15,267 10,260	15,267 10,146	15,267 10,146	15,267 10,146	15,267 10,146	15,267 10,146	15,186 10,146	14,900 10,146	14,900 10,203	13,436 10,260	180,510 122,265
36	P. D'Or No.1	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
37	P. D'Or No.2	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,800
38 39	P. D'Or No.3 P. D'Or No.4	3,287 3,620	3,078 3,620	3,069 3,610	3,059 3,610	3,031 3,572	3,031 3,654	3,040 3,670	3,040 3,695	3,040 3,695	3,040 3,695	3,040 3,695	3,040 3,695	36,794 43,827
40	Petite Retraite	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	5,700	20,214	20,214	97,428
41	Petite Retraite	_	·		1		-	·		·	·	· ·	· ·	
42 43	Riche Terre Schoenfeld	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	2,014	1,976	24,130
44	Schoenfeld	4,256	4,256	4,256	4,484	4,484	4,522	4,522	4,522	4,522	4,522	4,522	4,522	53,390
45 DWS- E /	Solitude	3,800	3,876	3,876	3,876	3,914	3,914	3,914	3,914	3,914	3,914	3,914	3,990	46,816
46	B.Rose Clemencia no1													
47	B.Rose Clemencia no2	19,575	19,713	21,017	21,017	21,017	21,017	21,017	21,017	21,017	18,584	20,623	20,623	246,234
48 49	B.Rose Clemencia no3 Bel Etang	3,135	3,135	3,135	2,679	2,679	2,679	2,622	2,622	5,016	5,016	5,016	5,016	42,750
50	Bonne Mere	10,298	11,771	11,771	11,771	11,771	11,771	11,771	11,771	11,771	9,823	9,823	9,823	133,931
51	Bonne Mere	· ·	·		-	-	-	•	-	-		· ·	-	
52 53	Camp Ithier Caroline	5,206	5,206	5,206	5,206	5,206	5,206	5,206	13,530	13,530	13,530	13,530	13,530	104,092
54	Caroline	18,430	29,450	29,450	29,450	30,400	35,910	35,910	35,910	35,910	35,910	35,910	35,910	388,550
55 56	Constance BH No1	11,713	11,694	21,074	21,285	21,296	21,296	21,296	21,296	21,325	21,346	21,466	21,568	236,654
56 57	Constance BH No2 Laventure	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,925	1,925	1,942	1,942	22,933
58	Petit Paquet	,	,,,,,,	,,,,,	,	,,,,,,	,	,		,,	, ,	,	,	-
DRY SE	ASON PUMPING STATIONS (N) Melrose BH													-
DWS SO														-
60	Choisy Baie du Cap New													-
61 62	Bananes Café	4,304 1,900	4,304 2,242	4,304 2,242	4,304 2,242	4,190 2,242	3,620	3,610 4,484	3,610 2,242	3,411 2,242	4,133 2,242	4,133 2,242	4,133 1,900	48,051 26,220
63	Cluny	1,900	2,242	2,242	2,242	2,242	-	4,404	۷,۷42	2,242	2,242	2,242	1,900	20,220
64	Cluny	34,390	34,770	34,770	35,340	35,340	35,340	35,340	35,340	35,340	35,340	34,390	31,730	417,430
65 66	Cluny Gebert	19,456	19,456	19,456	19,456	19,456	12,920	12,920	12,920	12,920	12,920	12,920	5,140	179,940
67	M.D.M.T- Plaisance		1,900	1,900	1,900			1,900		1,948	1,948	1,948	1,976	
68	M.D.M.T- Plaisance	1,900	·		1	1,900	1,900	·	1,900	·	·	· ·		23,019
69 70	N. France (new) N. France(old)	10,897	10,897	11,087	11,172	11,343	-	22,686	11,343	11,343	11,343	11,343	11,039	134,492
71	Trois Boutiques	7,752	7,752	7,752	7,752	7,752		15,504	7,752	7,752	7,752	7,752	7,657	92,929
72	Trois Boutiques	1,132	1,134	1,134	1,134	1,132	-	13,304	1,134	1,134	1,134	1,132	1,037	74,749

-MAV UPP	ER													_
73	Alma													-
74	Beard	0.260	0.260	0.260	6.604	= 41.1		- c11	- c++	- c	7.614	=	6.60=	04.504
75	Beard (new)	8,369	8,369	8,369	6,684	7,614	7,614	7,614	7,614	7,614	7,614	7,614	6,697	91,786
76	Bonne Veine BH no1													-
77	Bonne Veine BH no2													_
78	Montee du Fil													
79	Montee du Fil	7,980	7,866	5,358	5,358	5,358	5,358	5,358	5,358	8,549	8,549	8,549	8,549	82,190
DWS-MAV														_
80	Bambou (Eau Bonne) BH No1	12.205	12.200		11.154	44.5	44.454	44.45	44.5		12.055	42.055	42.055	
81	Bambou (Eau Bonne) BH No2	13,285	13,399	14,476	14,476	14,476	14,476	14,476	14,476	14,476	13,857	13,857	13,857	169,586
82	Barkly (BH)	25.650	25.650	25.650	25.650	25.650	25.650	25.650	10.400	10.400	10.400	10.400	10.400	221 000
83	Barkly (SP)	25,650	25,650	25,650	25,650	25,650	25,650	25,650	10,488	10,488	10,488	10,488	10,488	231,990
84	Bassin BH No 1	12.566	12.566	12.566	12.566	13,566	12 110	10,602	9,804	0.010	0.010	12,084	12.004	145.250
85	Bassin BH No2	13,566	13,566	13,566	13,566	13,366	13,110	10,602	9,804	9,918	9,918	12,084	12,084	145,350
86	Bassin 717	14,127	14,127	14,127		34,637	20,511	20,637	21,007	21,007	23,333	24,756	24,756	233,024
87	Bassin 435	14,127	14,127	14,127	-	34,037	20,311	20,637	21,007	21,007	23,333	24,736	24,730	233,024
88	Chamarel BH													-
89	Clairfonds BH No.1	6,650	6,650	6,156	5,928	6,650	6,650	6,650	6,650	6,650	6,650	10,737	10,737	86,758
90	Clairfonds BH No.2	0,030	0,030	0,130	3,720	0,030	0,030	0,030	0,030	0,030	0,030	10,737	10,737	60,756
91	Ebene BH No1	2,584	2,584	2,584	2,584	4,522	4,522	4,522	4,522	5,884	5,884	5,884	5,884	51,961
92	Ebene BH No2	2,501	2,501	2,501	2,501	1,522	1,522	1,522	1,522	5,001	2,001	5,001	3,001	51,701
93	Highlands	2,052	2,052	2,052	2,052	2,052	2,052	2,052	1,938	1,938	1,938	1,938	1,938	24,054
94	Highlands	2,002	2,002	2,002	2,002	2,002	2,002	2,002	1,750	1,,,,,	1,,500	1,,,,,	1,750	21,001
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	24,890	24.890	24.890	24,890	24.890	23.750	23,750	23,750	23.750	25.080	25,080	25,080	294,690
99	Holyrood	= -,	- 1,070	- 1,000	= 1,000	,				==,,,,,			,,,,,,	_,,,,,,
100	Holyrood													
101	Holyrood													
102	Holyrood	1.02.1	1.021	1000	1.065	1.065	1.065	1065	4.055	1.065	4.040	4.040	1.010	
103	Palma	1,934	1,934	1,965	1,965	1,965	1,965	1,965	1,965	1,965	1,918	1,918	1,918	23,375
104 105	Palmyre 26B											4.000	4.000	3,800
105	Palmyre 419											1,900	1,900	,
106	Palmyre (new) 827 Pont Fer (petit camp) BH No1													-
107	Pont Fer (petit camp) BH No2	2,660	2,660	2,660	1,976	2,090	2,090	2,090	2,090	2,090	2,090	2,090	1,900	26,486
109	Solferino BH	2,746	2,755	2,765	2,774	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,784	34,571
110	Solferino Candos					,				,				
111	Solferino Candos	2,622	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	28,329
112	Solferino Dookun													
113	Solferino Dookun	4,864	4,864	4,864	4,864	4,864	4,864	4,864	4,712	4,712	4,712	4,712	4,712	57,608
114	St Jean													
115	St Jean	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	2,708	23,608
116	St Paul BH No1	4.500	1.500	4.500	4.500	4.040	4.040	4.040	4.040	1010	4.040	4.040		56004
117	St Paul BH No2	4,560	4,560	4,560	4,560	4,940	4,940	4,940	4,940	4,940	4,940	4,940	4,104	56,924
118	Telfair	6,954	6,441	6,441	6,384	6,441	6,441	6,441	6,441	6,669	6,669	6,669	6.660	70.660
119	Telfair	0,934	0,441	0,441	0,384	0,441	0,441	0,441	0,441	0,009	0,009	0,009	6,669	78,660
120	Trianon	11,552	11,552	11,552	11,552	11,552	11,552	12,170	12,170	12,170	12,170	12,170	12,170	142,335
121	Trianon (New)	11,332	11,332	11,332	11,332	11,332	11,332	12,1/0	12,1/0	12,1/0	12,1/0	12,1/0	12,170	142,333
122	Valentina (Lower Phoenix)	3,962	3,962	3,971	4,019	4,019	4,019	4,019	4,019	4,019	4,019	4,000	3,981	48,004
123	Valentina (Lower Phoenix)	,	,		, i	· ·	,	,	· ·		,	, ,	· ·	,
124	Valentina (new)	2,774	2,622	2,622	2,622	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	33,136
125	Yemen	8,265	8,265	8,265	8,265	8,151	7,011	7,011	7,011	7,011	7,068	7,068	8,835	92,226
126	Yemen(OLD)	· ·	-		· ·	•	-	,		•	,	, ,	•	
127	Yemen New	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	97,152
		537,704	568,000	571,426	555,152	594,884	556,061	596,684	545,547	553,521	549,990	574,580	563,705	6,767,255

S No	Site Name												2004	Total 04
	DWC Port Louis	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	DWS- Port Louis Beau Bois BH	550	540	540	300	400	390	425	475	520	560	520	520	5,740
2	Beau Bois (New)	300	0.0	0.0						020	555	920	525	-
3	Beau Bois	2		05		405	05	2			0			-
<u>4</u> 5	Beau Songes Beau Songes	0	0	25	0	105	25	0	0	0	0	0	0	155 -
6	Petite Riviere	90	85	115	145	625	1925	0	0	2075	755	1410	475	7,700
7	Pierrefonds	0	0	45	40	480	5	0	0	55	0	0	0	625
<u>8</u> 9	St Martin St Martin	115	120	0	0	110	0	0	235	0	85	115	0	780 -
	DWS- NORTH													-
	B. Vue Mauricia	80	100	335	190	190	120	40	40	40	40	20	60	1,255
11 12	Bassin Loulou (Gallery) Bassin Ioulou (Jamblon)	265	245	205	0	140	0	35	0	0	0	0	0	890
13	Bassin Loulou (Robinson)	0	0	125	0	0	0	0	0	0	0	0		125
14	Beau Plateau	250	220	220	205	210	220	210	220	210	205	205	205	2,580
15 16	Bois Mangues (Old P.de Papayes) Camp La Boue	30	0	0	0	50	55	50	60	55	0	0	0	300
17	Camp Thorel	30		o e	Ü	30		30	00	33	J			-
18	Cottage (New)													-
19 20	Cottage- Poonith Esp.Trebuchet	395 430	435 520	265 520	180 525	240 530	240 610		270 605	270 610	290 610	360 615		3,490 6,720
21	F. Du Sac-Choisy	430	320	520	525	530	010	520	005	010	010	015	023	-
22	F. Du Sac-Choisy	_												-
23 24	F. Du Sac-forbach Haute Rive	510	510	515	520	585	535	515	570	550	545	555	555	6,465
25	La Clemence	30	0	0	5	0	0	0	0	0	0	0	0	35
26	Labourdonnais													=
27 28	Mapou Mon Loisir	0	0	0	0	0	0	0	0	45	150	140	125	460
29	MSA BH 117	20	110	400	440	440	440	420		2.10	1.00		120	
30	MSA BH 117	90	110	100	110	110	110		75	340	160	120		1,585
31	MSA BH 306	400	435	400	160	205	380	375	330	325	325	320	325	3,980
32 33	MSA BH 309 MSA BH 309	180	85	85	85	110	70	0	135	0	0	0	0	750
34	P. Bon Espoir	430	520	520	525	530	610		605	610	610	615		6,720
35	P. D'Or (New)	410	410	410	415	415	360	420	420	420	415	415	410	4,920
36 37	P. D'Or No.1 P. D'Or No.2	85	85	85	85	85	85	85	85	100	100	100	95	1,075
38	P. D'Or No.3		30		33					.00	.00		33	-
39	P. D'Or No.4													-
40 41	Petite Retraite Petite Retraite	200	205	205	205	205	165	165	165	170	165	165	165	2,180
42	Riche Terre													-
43	Schoenfeld	165	0	0	0	0	0	0	0	0	25	25	25	240
44 45	Schoenfeld Solitude	45	95	70	65	70	65	0	0	0	0	65	65	540
	DWS- EAST										-			-
	B.Rose Clemencia no1													-
47 48	B.Rose Clemencia no2 B.Rose Clemencia no3													-
49	Bel Etang	0	0	0	110	125	105	110	95	130	110	110		1,005
50	Bonne Mere	0					_				240	115	115	470
51 52	Bonne Mere Camp Ithier	300	365	330	335	335	335	365	360	335	0	30	30	3,120
53	Caroline	0	0	0	80	0	0	110	105	215	0	0		510
54	Caroline		0			0	^	0.40	0			0		340
55 56	Constance BH No1 Constance BH No2	0	0	0	0	0	0	340	0	0	0	0	0	340
57	Laventure													-
	Petit Paquet						_					_		-
	SEASON PUMPING STATIONS (N) Melrose BH													-
DWS SC	UTH													-
60	Choisy Baie du Cap New													-
61 62	Bananes Café													-
63	Cluny													
64	Cluny	565	940	950	955	950	960	990	1,180	1,000	780	780	1,000	11,050
65 66	Cluny Gebert		330	290	290	290	325	455						1,980
67	M.D.M.T- Plaisance		550	270	2,0	230	323	733						1,555
68	M.D.M.T- Plaisance													0
69 70	N. France (new) N. France(old)													-
71	Trois Boutiques				90	315				140				545
72	Trois Boutiques				90	315				140				545

DWS-MA	V UPPER												-
	Alma												-
74	Beard												
	Beard (new)												0
	Bonne Veine BH no1												_
	Bonne Veine BH no2												-
	Montee du Fil		155	305			325	230					1,015
	Montee du Fil												
	V LOWER												-
	Bambou (Eau Bonne) BH No1	10											2,310
	Bambou (Eau Bonne) BH No2	10											2,510
	Barkly (BH)												0
83	Barkly (SP)												U
84	Bassin BH No 1											155	1.55
85	Bassin BH No2											155	155
	Raccin 717												
87	Bassin 435	75 19	95 195	195							7,270		8,030
	Chamarel BH												-
89	Clairfonds BH No.1	+											
			45	160									205
	Clairfonds BH No.2												
91	Ebene BH No1												-
92	Ebene BH No2												-
93	Highlands												0
94	Highlands												· ·
95	Holyrood												
96	Holyrood												
97	Holyrood												
98	Holyrood												
99	Holyrood	85	450	225	265	230	115	360	740	770	730	985	5,155
100	Holyrood												
101	Holyrood												
102	Holyrood												
				20									7.
103	Palma			20	55								75
	Palmyre 26B												-
	Palmyre 419												-
106	Palmyre (new) 827												-
	Pont Fer (petit camp) BH No1												0
	Pont Fer (petit camp) BH No2												•
109	Solferino BH												-
110	Solferino Candos					140							140
111	Solferino Candos					140							140
112	Solferino Dookun												-
113	Solferino Dookun												_
	St lean												
	St Jean	40 20	50 185	180	95						60	165	1,085
	St Paul BH No1												
117	St Paul BH No2												0
	Tolfoir												
118		25 1,54	1,500	1,490	1,480	1,425	1,340	1,055	1,095	1,015	1,000	1,015	15,280
	Telfair 1,	- 		· ·								·	
	Trianon											70	70
	Trianon (New)												-
	Valentina (Lower Phoenix)												-
	Valentina (Lower Phoenix)												-
	Valentina (new)		50)									50
125	Yemen												-
	Yemen(OLD)												-
	Yemen New												-
	9,850.	00 8,350.0	8,935.00	8,195.00	9,305.00	9,490.00	7,915.00	7,675.00	10,050.00	7,955.00	15,860.00	8,320.00	111,900.00
	9,050.1	0,350.0	0,935.00	0,193.00	9,303.00	9,490.00	1,813.00	1,013.00	10,050.00	1,800.00	15,660.00	0,320.00	111,90

S No	Site Name												2005	
	DWO Port Louis	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	DWS- Port Louis Beau Bois BH	410	415	415	410	365	0	0	0	0	0	0	0	2,015
2	Beau Bois (New)	110	110	110	110	000		Ü		,			Ŭ	-
3	Beau Bois													-
4	Beau Songes	0	0	0	125	2075	0	0	0	0	0	0	0	2,200
5 6	Beau Songes Petite Riviere	170	115	170	360	140	360	475	295	355	540	645	1680	5,305
7	Pierrefonds	170	113	170	300	140	300	473	200	333	340	0+3	1000	-
8	St Martin	225	85	85	85	85	85	85	85	85	85	85	85	1,160
9	St Martin													-
10	DWS- NORTH	150	175	175	175	175	0	0	165	150	165	150	150	- 1 620
10 11	B. Vue Mauricia Bassin Loulou (Gallery)	150	1/5	175	175	1/5	0	U	100	150	100	150	150	1,630
12	Bassin Ioulou (Jamblon)	120	130	155	0	0	0	0	0	0	0	0	0	405
13	Bassin Loulou (Robinson)													-
14	Beau Plateau	205	205	210	205	205	105	0	0	0	0	0	0	1,135
15 16	Bois Mangues (Old P.de Papayes) Camp La Boue													-
17	Camp Thorel													-
18	Cottage (New)	0	100	0	0	0	0	0	0		0	0	0	100
19	Cottage- Poonith	500	630	400	230	50	0		0		0	0		1,310
20 21	Esp.Trebuchet F. Du Sac-Choisy	530	1070	0	260	260	0	0	0	0	0	0	0	2,120 435
21	F. Du Sac-Choisy F. Du Sac-Choisy					435							1	435
23	F. Du Sac-forbach	555	565	530	530	530	360	0	0	0	820	0	0	3,890
24	Haute Rive		0	0	55	35	35	20	35	55	55	70	70	
25	La Clemence	450		40							105			-
26 27	Labourdonnais Mapou	450 125	0 125	40 125	125	0 115	30	30	10		125 130	10 0		755 775
28	Mon Loisir	125	125	125	125	113	30	U	<u> </u>	0	130	0	0	-
29	MSA BH 117	130	160	145	155	170	175	180	180	160	150	180	160	
30	MSA BH 117													· ·
31	MSA BH 306	320	200	75	75	75	0	0	0	0	0	0	0	745
32 33	MSA BH 309 MSA BH 309	40	145	0	10	150	0	0	0	35	65	145	145	735
34	P. Bon Espoir	530	1070	0	260	260	0	0	0	0	0	0	0	2,120
35	P. D'Or (New)	465	460	405	60	0	0	0	0	0	0	360	120	
36	P. D'Or No.1							_						-
37 38	P. D'Or No.2 P. D'Or No.3	105	110	105	100	95	85	5	100	95	20	25	0	845
39	P. D'Or No.4													-
40	Petite Retraite	165	165	165	165	165	200	200	200	600	0	475	425	
41	Petite Retraite	103	103	103	103	103	200	200	200	000	0	4/3	423	2,923
42	Riche Terre													-
43 44	Schoenfeld Schoenfeld	0	0	0	105	80	0	0	0	0	0	0	0	185
45	Solitude	65	90	90	90	90	90	500	65	65	90	90	95	1,420
	DWS- EAST													-
	B.Rose Clemencia no1	0	0	0	540	645	535	435	320	0	105	0	0	2,580
47 48	B.Rose Clemencia no2 B.Rose Clemencia no3													-
49	Bel Etang	30	30	30	30	30	30	30	30	30	30	30	30	360
50	Bonne Mere	115	140		115	115			115			55		1,080
51	Bonne Mere													-
52	Camp Ithier	0	0	0	0	0	0	0	0					
53 54	Caroline Caroline	0	0	0	0	355	840	210	210	210	0	0	0	1,825
55	Constance BH No1													-
56	Constance BH No2													-
57	Laventure	0	0	0	0	0	135	140	135	205	200	250	120	,
	Petit Paquet													-
	SEASON PUMPING STATIONS (N) Melrose BH												1	-
DWS SO														-
60	Choisy Baie du Cap New													-
61	Bananes										265			265
62 63	Café Cluny		50	105									1	155
64	Cluny	1,410	1,425	1,400	1,655	1,005	740	350	530	930	1,095	1,105	1,105	12,750
65	Cluny		-,.23	1,.00	1,000								1,100	12,750
66	Gebert						<u> </u>		·			·		-
67	M.D.M.T. Plaisance									10	45	45	35	135
68 69	M.D.M.T- Plaisance N. France (new)												1	-
	N. France (new)													-
71	Trois Boutiques				270									270
72	Trois Boutiques				270]	270

DIA/C MA	WHERE	1	1		ı	T	I						1	
	AV UPPER													-
73	Alma													-
74	Beard													-
75	Beard (new)													-
76	Bonne Veine BH no1													-
77	Bonne Veine BH no2													-
78	Montee du Fil												1(0	166
79	Montee du Fil												160	160
	AV LOWER													-
80	Bambou (Eau Bonne) BH No1													_
81	Bambou (Eau Bonne) BH No2													_
82														-
	Barkly (BH)													
83	Barkly (SP)													-
84	Bassin BH No 1													-
85	Bassin BH No2													-
86	Bassin 717												670	670
87	Bassin 435												070	
88	Chamarel BH			_	_									-
89	Clairfonds BH No.1													-
90	Clairfonds BH No.2													_
91	Ebene BH No1													_
92	Ebene BH No2													-
93	Highlands													
														-
94	Highlands													-
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	645	790	1 1/0	1.060	1 110	1.250	1 200	1 200	1 200	1 465	1 455	1.075	14.170
99	Holyrood	645	780	1,160	1,060	1,110	1,250	1,390	1,390	1,390	1,465	1,455	1,075	14,170
100	Holyrood													
101	Holyrood													
102	Holyrood													
103	Palma													-
104	Palmyre 26B													-
105	Palmyre 419													-
106	Palmyre (new) 827													-
107	Pont Fer (petit camp) BH No1													(
108	Pont Fer (petit camp) BH No2													,
109	Solferino BH					50	45	50	50	50	50			295
110	Solferino Candos													
111	Solferino Candos													(
112	Solferino Dookun													
	Solferino Dookun													
113														-
114	St Jean	170	145											315
115	St Jean													
116	St Paul BH No1		90	40										130
117	St Paul BH No2			40										130
118	Telfair	1 045	200	1 570	1.045	700	020	0.00	920	025	050	(50	450	10.227
	Telfair	1,045	290	1,570	1,045	790	830	860	820	935	950	650	450	10,235
120	Trianon							70	70	70	70	70	70	420
121	Trianon (New)							,,,	70	,,,	70	70	7.0	-
122	Valentina (Lower Phoenix)													
123	Valentina (Lower Phoenix)													-
124	Valentina (new)													-
125	Yemen													-
126	Yemen(OLD)													-
127	Yemen New				<u> </u>		<u> </u>							-
				7,735.00										

S No	Site Name						200	04						Total 04
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
VS- Port Lou										-				
2	Beau Bois BH Beau Bois (New)													
3	Beau Bois													
4	Beau Songes													
5	Beau Songes													
6 7	Petite Riviere Pierrefonds													
8	St Martin													
9	St Martin													
WS- NORTH		0.00	0.70	0.04	0.70	0.74	0.74	0.70	0.07	0.70	0.00	0.74	0.74	0.70
10 11	B. Vue Mauricia Bassin Loulou (Gallery)	0.69	0.76	0.61	0.72	0.74	0.71	0.73	0.67	0.72	0.83	0.74	0.71	0.72
12	Bassin Ioulou (Jamblon)	0.62	0.62	0.51	0.59	0.52	0.74	0.56	0.47	0.57	0.54	0.96	0.88	0.61
13	Bassin Loulou (Robinson)	1.10	1.16	3.25	#DIV/0!	2.39								
14 15	Beau Plateau Bois Mangues (Old P.de Papayes)	0.89 0.72	1.10 0.83	0.80 0.70	0.87 0.78	0.77 0.78	0.94 0.75	0.82 0.80	0.82 0.72	0.95 0.75	0.98 0.86	0.84 0.78	0.92 0.75	0.89 0.77
16	Camp La Boue	0.72	1.07	0.70	1.01	0.78	0.73	0.86	0.72	0.75	0.82	0.78	1.05	0.89
17	Camp Thorel	0.87	1.08	1.06	1.17	1.12	1.14	1.10	1.13	1.21	1.12	1.29	1.71	1.16
18	Cottage (New)	2.39	2.74	2.43	2.46	2.70	2.59	2.57	2.33	2.76	0.93	0.83	0.87	1.73
19 20	Cottage- Poonith Esp.Trebuchet	0.82	0.95	0.93	0.97	0.94	0.86	0.86	0.85	1.07	1.01	0.90	0.98	0.92
21	F. Du Sac-Choisy	0.47	0.57	0.04	0.55	0.05	0.50	2.22	0.00	0.00	0.40	0.00	0.50	0.54
22	F. Du Sac-Choisy	2.47	2.57	2.34	2.55	2.35	2.52	2.39	2.62	2.69	2.46	2.60	2.59	2.51
23	F. Du Sac-forbach	0.85	0.83	0.71	0.70	0.81	1.05	0.92	0.80	0.85	0.93 1.27	0.80	0.78	0.83
24 25	Haute Rive La Clemence	0.84	1.02	0.81	0.88	0.82	0.96	0.80	0.79	0.98	1.27	0.96	0.85	0.91
26	Labourdonnais	0.88	0.88	0.88	0.75	0.81	0.86	0.82	0.83	0.91	0.87	0.96	0.95	0.86
27	Mapou	0.65	1.45	1.18	1.30	1.21	1.34	1.22	1.20	1.36	1.16	1.18	1.16	1.20
28	Mon Loisir	1.22	1.30	1.02	1.09	0.96	1.21	1.06	1.12	1.23	1.17	1.23	1.19	1.14
29 30	MSA BH 117 MSA BH 117	0.37	0.42	0.36	0.37	0.44	0.40	0.40	0.30	0.39	0.47	0.40	0.39	0.39
31	MSA BH 306	3.21	0.88	0.77	0.92	0.79	0.87	0.78	0.80	0.87	0.81	0.87	0.94	0.90
32	MSA BH 309	0.07	0.67	0.47	#DIV/0!	0.04	0.27	0.44						
33 34	MSA BH 309 P. Bon Espoir	1.28	1.30	1.16	1.31	1.17	1.21	1.15	1.14	1.28	1.23	1.43	1.37	1.25
35	P. D'Or (New)	1.05	0.89	0.86	1.04	0.95	0.68	0.70	1.00	1.05	0.99	0.95	0.94	0.93
36	P. D'Or No.1	0.61	0.67	0.60	0.60	2.13	15.80	#DIV/0!	0.23	0.74	0.69	0.68	0.62	0.69
37	P. D'Or No.2	1.54	1.62	1.43	1.59	1.49	1.61	1.53	1.05	1.31	0.98	0.97	1.09	1.31
38 39	P. D'Or No.3 P. D'Or No.4	0.44 0.46	0.48 0.49	0.41 0.41	0.43 0.43	1.79 0.38	0.16 0.35	0.36 0.34	0.37 0.38	0.42 0.45	0.41 0.45	0.45 0.48	0.44	0.43 0.41
40	Petite Retraite													
41	Petite Retraite	0.82	1.08	0.88	0.96	0.77	0.93	0.78	0.75	0.91	1.04	0.97	0.89	0.90
42	Riche Terre	0.74	0.91	0.79	0.74	0.67	0.77	0.77	0.72	0.85	0.87	0.92	0.81	0.79
43 44	Schoenfeld Schoenfeld	0.78	0.67	0.55	0.62	0.55	0.63	0.47	0.51	0.61	0.72	0.65	0.58	0.60
45	Solitude	0.79	1.54	#DIV/0!	#DIV/0!	6.47	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.06	0.83	1.95
DWS- EAST														
46 47	B.Rose Clemencia no1 B.Rose Clemencia no2		0.10	0.07	0.09	0.09	0.09	0.09	0.09	0.09	0.93	1.02	0.98	0.30
48	B.Rose Clemencia no3	-	0.10	0.07	0.09	0.09	0.09	0.09	0.09	0.09	0.93	1.02	0.98	0.30
49	Bel Etang												0.22	3.83
50	Bonne Mere	0.61	0.64	0.53	0.61	0.56	0.57	0.54	0.56	0.63	0.60	0.62	0.57	0.59
51 52	Bonne Mere Camp Ithier	1.01	1.42	1.33	1.22	1.31	1.15	1.22	1.11	1.30	1.17	1.23	1.30	1.23
53	Carroline													
54	Caroline	0.75	0.67	0.62	0.69	0.67	0.65	0.63	0.68	0.76	0.65	0.72	0.71	0.68
55 50	Constance BH No1	0.55	0.59	0.51	0.56	0.53	0.60	0.48	0.55	0.57	0.53	0.58	0.54	0.55
56 57	Constance BH No2 Laventure	1.95	1.39	1.16	1.28	1.24	1.28	1.22	1.22	1.16	1.32	1.29	1.33	1.30
58	Petit Paquet				0									
	STATIONS (N)													
59 DWS SOUTH	Melrose BH													
60	Choisy Baie du Cap New	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	Bananes	0.49						0.19		0.05	0.52	0.58	0.49	0.58
62	Café	0.60	0.78	0.55	0.67	0.72	0.57	0.65	0.50	0.77	0.68	0.76	0.68	0.66
63 64	Cluny Cluny	0.57	0.58	0.58	0.55	0.59	0.50	0.59	0.47	0.61	0.65	0.60	0.54	0.57
65	Cluny	5.57	0.00	0.00	3.00	0.00	0.00	0.00	0.77	0.01	3.00	0.00	0.04	0.07
66	Gebert	0.94	0.55	0.81	0.43	0.49	0.40	0.51	0.44	0.58	0.57	0.00	1.24	0.56
67	M.D.M.T. Plaisance	0.59	0.73	0.74	0.74	0.66	0.77	0.69	0.68	0.71	0.72	0.73	0.78	0.71
68 69	M.D.M.T- Plaisance N. France (new)	0.92	0.96	0.94	0.81	0.82	0.93	0.88	0.96	1.01	1.01	1.18	1.08	0.95
70	N. France (old)	3.32	2.55	0.01	3.31	3.02	2.00	0.00	0.00	1.01	1.01	1.10	1.00	#DIV/0!
71	Trois Boutiques	0.50	0.50	0.42	0.46	0.47	0.45	0.49	0.38	0.54	0.50	0.56	0.49	0.48
72	Trois Boutiques	0.50	0.50	0.44	0.40	0.47	0.43	0.49	0.56	0.54	0.50	0.50	0.49	0.40

S No	Site Name						20	04						Total 04
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
S- Port Lou	uis									_				
MAV UPP														
73	Alma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	Beard	0.48	0.47	0.43	0.43	0.41	0.43	0.41	0.41	0.46	0.44	0.47	0.43	0.44
75 76	Beard (new) Bonne Veine BH no1													
76 77	Bonne Veine BH no2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	Montee du Fil													
79	Montee du Fil	0.36	0.37	0.38	0.42	0.37	0.35	0.54	0.51	0.52	0.46	0.44	0.40	0.43
-MAV LOW														
80	Bambou (Eau Bonne) BH No1	0.27	1.00	1.55	1.76	1.75	1.00	2.20	1.57	2.06	1.04	2.17	2.16	1.74
81	Bambou (Eau Bonne) BH No2	0.37	1.89	1.55	1.76	1.75	1.88	2.20	1.57	2.06	1.94	2.17	2.16	1.74
82	Barkly (BH)	1.22	1.18	0.97	0.95	0.47	0.64	0.90	0.59	0.91	0.72	0.81	0.96	0.85
83	Barkly (SP)	1.22	1.16	0.57	0.93	0.47	0.04	0.50	0.57	0.71	0.72	0.81	0.50	0.83
84	Bassin BH No 1	0.64	1.06	0.82	0.88	0.98	0.84	0.87	0.81	0.98	0.94	0.76	0.23	0.81
85	Bassin BH No2			-										
86	Bassin 717	2.04	1.69	1.31	1.33	1.47	1.78	2.12	1.78	2.63	1.07	1.55	2.05	1.66
87 88	Bassin 435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	Chamarel BH Clairfonds BH No.1													
90	Clairfonds BH No.2	0.69	0.65	0.46	0.61	1.88	1.76	1.66	0.52	0.56	0.51	0.54	0.65	0.70
91	Ebene BH No1													
92	Ebene BH No2	0.46	0.57	0.51	0.38	0.32	0.42	0.65	0.35	0.48	0.34	0.39	0.54	0.44
93	Highlands	4.40	1.00	0.00	0.05	0.74	0.02	0.50	0.55	0.54	0.62	0.54	0.50	0.50
94	Highlands	1.10	1.20	0.90	0.95	0.76	0.82	0.58	0.57	0.74	0.62	0.74	0.59	0.78
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood	0.54	0.63	0.47	0.51	0.52	0.47	0.70	0.39	0.63	0.44	0.58	0.67	0.53
99	Holyrood	0.04	0.00	0.47	0.01	0.02	0.47	0.70	0.00	0.00	0.44	0.50	0.07	0.00
100	Holyrood													
101	Holyrood													
102	Holyrood	0.54	0.50	0.40	0.50	#50.401	#DI) ((0)	0.04	0.04	0.50	0.50	0.54	0.40	0.40
103 104	Palma Palmyre 26B	0.51 0.79	0.56 1.09	0.46 0.32	0.52 0.38	#DIV/0! 0.84	#DIV/0! 0.66	0.24 1.02	0.24 0.45	0.50 0.72	0.50 0.71	0.54 0.35	0.49 0.64	0.49
104	Palmyre 20B Palmyre 419	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
106	Palmyre 419 Palmyre (new) 827	2.09	2.70	1.65	1.85	2.11	1.95	2.61	1.67	2.46	2.15	1.99	2.02	2.07
107	Pont Fer (petit camp) BH No1													
108	Pont Fer (petit camp) BH No2	0.91	1.01	0.81	0.82	1.07	0.73	1.18	0.70	0.82	0.64	0.70	0.70	0.83
109	Solferino BH	0.94	0.97	0.72	0.48	0.86	0.81	1.34	0.91	1.54	0.68	0.72	0.73	0.83
110	Solferino Candos	0.17	0.20	0.13	0.15	0.17	0.09	0.16	0.10	0.18	0.19	0.20	0.20	0.16
111	Solferino Candos	0.17	0.20	0.13	0.13	0.17	0.09	0.10	0.10	0.18	0.19	0.20	0.20	0.10
112	Solferino Dookun	0.72	0.87	1.01	1.49	1.27	0.68	0.98	0.51	0.85	0.60	1.15	0.95	0.85
113	Solferino Dookun	0.72	0.07	1.01	1.47	1.27	0.00	0.76	0.51	0.05	0.00	1.13	0.75	0.03
114	St Jean	0.52	0.60	0.36	0.37	0.40	0.52	0.62	0.43	0.57	0.56	0.72	1.19	0.53
115	St Jean	-				-	-	-						1
116	St Paul BH No1	0.52	0.73	0.56	0.59	0.39	0.28	0.41	0.57	0.46	0.42	0.40	0.58	0.46
117 118	St Paul BH No2 Telfair		1						1		-			+
118	Telfair	0.14	0.11	0.10	0.11	0.10	0.12	0.12	0.13	0.14	0.14	0.14	0.13	0.12
120	Trianon													
121	Trianon (New)	0.46	0.49	0.39	0.41	0.41	0.39	0.53	0.33	0.62	0.37	0.45	0.61	0.45
122	Valentina (Lower Phoenix)	0.77	0.51	0.1-	0	a ·-	0.1-	0	0	0.77	0.11	0	0	
123	Valentina (Lower Phoenix)	0.63	0.64	0.45	0.53	0.47	0.62	0.72	0.53	0.68	0.64	0.72	0.73	0.60
124	Valentina (new)	1.44	1.98	1.31	1.21	0.91	1.10	1.16	0.99	1.32	1.23	1.57	1.76	1.28
125	Yemen													
126	Yemen(OLD)	0.79	1.00	2.73	0.80	0.84	0.76	1.26	0.52	0.91	0.89	0.80	0.72	0.87
127	Yemen New	3.35	2.31	1.45	1.42	1.71	1.31	1.95	1.08	2.01	1.59	1.55	1.50	1.66
		0.72	0.78	0.64	0.68	0.66	0.64	0.69	0.59	0.73	0.71	0.75	0.76	0.69

S No	Site Name						20	05						Total 05
		Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
S- Port Lou		0.40	0.40	0.47	0.40	0.45	0.40	0.40	0.40	0.40	0.47	0.40	0.40	#DIV/0!
2	Beau Bois BH Beau Bois (New)	0.16 0.00	0.18	0.17 0.00	0.18	0.15 0.00	0.16 0.00	0.16 0.00	0.18 0.00	0.18 0.00	0.17 0.00	0.18 0.00	0.18 0.00	0.17 0.00
3	Beau Bois	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4	Beau Songes	1.16	3.92	#DIV/0!	#DIV/0!	#DIV/0!	0.18	0.85	0.91	1.02	1.33	0.93	1.15	1.19
5	Beau Songes			-										
6 7	Petite Riviere Pierrefonds	#DIV/0! 1.03	#DIV/0! 1.98	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0! 0.38	#DIV/0! 0.95	#DIV/0! 0.18	#DIV/0! 0.17	#DIV/0! 0.37	#DIV/0! 1.04	#DIV/0! 1.10
8	St Martin	0.64	0.89	0.93	1.37	0.55	0.75	0.59	0.59	0.10	0.56	0.66	0.60	0.68
9	St Martin	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
VS- NORTH		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
10 11	B. Vue Mauricia Bassin Loulou (Gallery)	0.72	0.89	0.68	0.66	0.75	0.73	0.76	0.60	0.75	0.67	0.64	0.90	0.72
12	Bassin Louiou (Gallery) Bassin loulou (Jamblon)	0.57	0.60	0.38	0.38	0.48	0.47	0.48	0.47	0.63	0.43	0.38	0.41	0.47
13	Bassin Loulou (Robinson)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
14	Beau Plateau	0.97	1.29	0.59	0.77	0.82	0.88	0.71	0.74	0.86	0.88	0.74	0.70	0.82
15	Bois Mangues (Old P.de Papayes)	0.76	0.94	0.74	0.72	0.81	0.75	0.83	0.77	0.79	0.85	0.77	0.79	0.79
16 17	Camp La Boue	1.25 1.32	1.31 1.50	1.53 1.22	1.50 1.25	1.69 1.38	1.62 1.52	0.59 1.32	2.23 1.41	1.38 1.40	1.12 1.30	1.24 1.54	1.44 1.48	1.31 1.38
18	Camp Thorel Cottage (New)	0.81	1.11	0.88	0.91	0.75	0.92	0.76	0.78	0.81	0.87	0.77	0.84	0.85
19	Cottage- Poonith	0.00	2.09	0.80	0.83	0.92	1.05	0.94	0.83	0.93	0.92	0.87	0.76	0.90
20	Esp.Trebuchet													
21	F. Du Sac-Choisy	2.61	3.59	3.07	3.00	2.19	3.14	3.03	2.61	2.73	2.58	2.73	2.77	2.81
22 23	F. Du Sac-Choisy F. Du Sac-forbach	0.75	0.86	0.59	0.63	0.62	0.71	0.64	0.74	0.71	0.63	0.81	0.68	0.69
23	Haute Rive	0.75	1.94	0.87	1.11	0.86	1.05	0.94	0.74	1.43	1.01	0.95	1.46	1.02
25	La Clemence	0.00		0.01		0.00		0.0 .	0.00	0		0.00	0	
26	Labourdonnais	1.00	0.98	0.78	0.88	0.89	1.08	0.86	1.05	0.93	0.82	0.95	0.91	0.92
27	Mapou	1.26	1.04	0.99	1.06	1.04	1.15	1.11	1.11	1.19	1.13	1.18	1.13	1.12
28 29	Mon Loisir MSA BH 117	1.30	1.49	1.06	1.11	1.10	1.17	0.77	1.12	1.20	1.15	1.23	1.23	1.14
30	MSA BH 117	0.40	0.50	0.42	0.34	0.36	0.40	0.32	0.30	0.35	0.39	0.38	0.39	0.38
31	MSA BH 306	1.03	1.04	0.70	1.00	1.14	0.95	0.93	0.95	1.06	0.99	1.03	0.80	0.96
32	MSA BH 309	0.37	0.46	0.38	0.38	0.33	0.45	0.74	0.27	0.30	0.42	0.30	0.30	0.38
33	MSA BH 309													
34 35	P. Bon Espoir P. D'Or (New)	1.41	1.45 0.94	1.16 0.84	1.18 1.07	1.21 0.94	1.31 0.82	1.31 1.04	1.37 1.00	1.45 1.16	1.36 0.83	1.48 0.94	1.56 1.20	1.34 0.99
36	P. D'Or No.1	0.76	1.05	0.69	0.50	0.69	0.54	0.54	#DIV/0!	0.16	0.47	0.66	0.72	0.66
37	P. D'Or No.2	1.15	1.39	1.00	0.97	1.37	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.62
38	P. D'Or No.3	0.49	0.55	0.40	0.38	0.49	0.33	0.39	0.42	0.45	0.42	0.47	0.45	0.43
39 40	P. D'Or No.4 Petite Retraite	0.41	0.54	0.33	0.32	0.33	0.38	0.36	0.40	0.45	0.45	0.47	0.45	0.40
41	Petite Retraite Petite Retraite	0.91	0.91	0.73	1.00	0.82	0.94	0.81	0.84	0.79	1.15	1.02	0.96	0.91
42	Riche Terre	0.86	1.08	0.75	2.50	1.14	0.74	1.00	0.72	0.71	0.80	0.73	0.90	0.89
43	Schoenfeld	1.82	1.82	1.56	1.99	1.60	1.99	1.68	1.74	1.88	1.78	1.73	1.80	1.78
44	Schoenfeld		-											
45 DWS- EAST	Solitude	1.33	1.30	1.07	1.40	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.81	2.49	1.83
46	B.Rose Clemencia no1													
47	B.Rose Clemencia no2	1.02	1.12	0.93	1.05	1.00	1.08	1.01	1.03	1.06	0.95	1.04	1.00	1.02
48	B.Rose Clemencia no3	2.25	2.24	2.25	0.40	2.24	1.01	2.22	2.42	0.00	1.00	0.70	4.00	
49 50	Bel Etang Bonne Mere	0.95	0.61	0.95	0.46	0.94	1.31	0.83	0.48	0.98	1.09	0.70	1.30	0.83
51	Bonne Mere	0.59	0.67	0.75	0.43	0.43	0.78	0.76	0.46	0.63	0.56	0.63	0.21	0.57
52	Camp Ithier	1.08	1.63	1.35	1.23	1.28	1.29	1.16	1.65	1.54	1.22	1.51	1.39	1.36
53	Caroline	0.73	0.77	0.66	0.73	0.76	0.73	0.74	0.75	0.76	0.78	0.81	0.80	0.75
54 55	Caroline					-	-	-						
55 56	Constance BH No1 Constance BH No2	0.65	0.87	0.90	1.07	0.87	0.94	0.88	0.90	1.00	0.96	1.24	1.27	0.96
57	Laventure	1.33	1.53	1.41	2.58	1.73	2.52	1.53	1.46	1.47	1.39	1.32	1.24	1.57
58	Petit Paquet													
	TATIONS (N)													
59 WS SOUTH	Melrose BH													
60	Choisy Baie du Cap New	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
61	Bananes	0.40	0.61	0.68	0.15	#DIV/0!	0.32	0.17	0.64	#DIV/0!	0.49	#DIV/0!	0.03	0.33
62	Café	0.69	0.74	0.25	0.73	0.56	0.00	1.37	0.67	0.69	0.64	0.67	0.64	0.64
63 64	Cluny Cluny	0.62	0.66	0.55	0.67	0.48	0.58	0.58	0.52	0.55	0.58	0.54	0.52	0.57
65	Cluny	0.02	0.00	0.00	0.07	0.40	0.56	0.56	0.32	0.55	0.50	0.04	0.02	0.37
66	Gebert	0.65	0.71	0.54	0.59	0.47	0.57	0.52	0.51	0.57	0.53	0.61	0.61	0.57
67	M.D.M.T- Plaisance	0.78	0.92	0.71	0.75	0.73	0.74	0.73	0.75	0.78	0.74	0.77	0.79	0.76
	M.D.M.T- Plaisance			0.87										
68	N F			1187	0.96	0.81	0.00	1.68	0.83	0.87	0.80	0.94	0.93	0.90
69	N. France (new)	0.97 #DIV/01	1.25 #DIV/0!										#DI\//0i	#DI\//0I
	N. France (new) N. France(old) Trois Boutiques	#DIV/0! 0.45	#DIV/0! 0.52	#DIV/0! 0.45	#DIV/0! 0.52	#DIV/0! 0.41	#DIV/0! 0.00	#DIV/0! 0.96	#DIV/0! 0.45	#DIV/0! 0.47	#DIV/0! 0.45	#DIV/0! 0.48	#DIV/0! 0.47	#DIV/0! 0.47

S No	Site Name						20	05						Total 05
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
S- Port Lou														#DIV/0!
MAV UPP														
73	Alma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	Beard	0.45	0.48	0.37	0.41	0.43	0.44	0.43	0.43	0.49	0.42	0.45	0.44	0.44
75	Beard (new)													
76	Bonne Veine BH no1	0.44	0.43	0.13	0.44	0.36	0.00	0.78	0.34	0.33	0.34	0.33	0.31	0.35
77	Bonne Veine BH no2													
78	Montee du Fil	0.46	0.44	0.25	0.38	0.37	0.37	0.39	0.34	0.30	0.40	0.43	0.43	0.38
79	Montee du Fil													
MAV LOW					<u> </u>									
80	Bambou (Eau Bonne) BH No1	1.68	1.82	1.57	1.86	1.85	2.00	2.34	1.66	2.07	1.95	2.13	2.18	1.90
81	Bambou (Eau Bonne) BH No2													
82 83	Barkly (SB)	0.98	1.07	0.85	0.96	0.84	0.89	1.19	0.67	0.96	0.85	0.93	1.11	0.93
84	Barkly (SP) Bassin BH No 1													
85	Bassin BH No2	0.31	0.74	0.64	0.75	0.66	0.62	0.68	0.62	0.63	0.68	0.75	0.91	0.66
86	Bassin 717				+									
87	Bassin 435	2.17	3.03	2.40	0.00	4.85	3.48	4.81	4.98	6.48	2.66	1.95	3.24	3.05
88	Chamarel BH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	Clairfonds BH No.1													
90	Clairfonds BH No.2	0.68	0.59	0.44	0.53	1.51	2.45	2.10	0.59	0.62	0.60	0.84	0.80	0.78
91	Ebene BH No1													
92	Ebene BH No2	0.50	0.53	0.60	0.49	0.48	0.52	0.79	0.39	0.66	0.56	0.63	0.67	0.56
93	Highlands													
94	Highlands	0.77	1.06	0.85	0.64	0.49	0.50	0.74	0.66	0.66	0.57	0.56	0.69	0.65
95	Holyrood													
96	Holyrood													
97	Holyrood													
98	Holyrood			0.50	0.50	0.50	0.50	0.70	0.50	0.00	0.50	0.75	0.05	0.04
99	Holyrood	0.66	0.77	0.59	0.58	0.52	0.59	0.76	0.50	0.69	0.59	0.75	0.85	0.64
100	Holyrood	1												
101	Holyrood	1												
102	Holyrood													
103	Palma	0.51	0.58	0.48	0.88	#DIV/0!	#DIV/0!	0.52	0.54	0.55	0.51	0.55	0.50	0.66
104	Palmyre 26B	0.62	0.83	0.46	0.37	0.54	0.54	0.72	0.46	0.64	0.62	0.68	0.00	0.53
105	Palmyre 419	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.01
106	Palmyre (new) 827	2.11	2.58	1.66	1.80	1.62	1.79	2.55	1.66	2.19	2.19	1.97	0.00	1.83
107	Pont Fer (petit camp) BH No1	0.61	0.66	0.65	0.59	0.56	0.56	0.80	0.60	0.58	0.66	0.64	0.72	0.63
108	Pont Fer (petit camp) BH No2		0.00				0.50			0.50		0.04	0.72	
109	Solferino BH	0.74	0.76	0.57	0.89	0.67	0.71	0.85	0.58	1.36	0.70	0.73	0.74	0.74
110	Solferino Candos	0.18	0.22	0.20	0.18	0.14	0.14	0.19	0.13	0.19	0.17	0.18	0.19	0.17
111	Solferino Candos								.,				,	
112	Solferino Dookun	0.67	0.85	1.20	1.57	1.09	0.73	0.92	0.54	0.82	0.58	1.11	1.01	0.85
113	Solferino Dookun							-						
114	St Jean	0.50	0.60	0.46	0.51	0.48	0.54	0.65	0.46	0.56	0.55	0.71	1.41	0.57
115	St Jean													
116	St Paul BH No1	0.47	0.74	0.57	0.48	0.43	0.40	0.80	0.90	0.44	0.45	0.48	0.43	0.53
117	St Paul BH No2				<u> </u>									
118	Telfair	0.93	0.96	0.71	0.80	0.85	0.91	0.94	1.02	1.15	1.18	1.41	1.54	1.00
119	Telfair													
120	Trianon	0.48	0.47	0.81	0.79	0.52	0.75	1.00	0.68	0.85	0.74	0.76	0.87	0.72
121	Trianon (New)		-		+					1				1
122	Valentina (Lower Phoenix)	0.69	0.70	0.47	0.53	0.52	0.70	0.72	0.56	0.67	0.62	0.73	0.75	0.63
123 124	Valentina (Lower Phoenix) Valentina (new)	1.55	1.84	1.53	1.17	2.10	1.08	1.87	1.05	1.27	1.35	1.52	2.16	1.47
124	Yemen			1										
125	Yemen(OLD)	0.92	0.95	2.97	9.19	0.78	0.84	1.34	0.63	0.92	0.84	0.80	0.98	1.01
	, ,	2.06	2.16	1.90	1.85	1.84	1.68	2.46	1.46	1.96	1.44	1.45	1.47	1.77
127	Yemen New													

Monitoring of Operation of Barkly (Herchenroeder) BH 664 under operation with Variable Speed Drive

Date for test effected:

Ser		Flow	Delivery	Dynamic Water	Meter	In	put to Ρι	ımp	ļ	Input to Driv	⁄e	Leakage
No	Time	(m ^{3/} hr)	Pressure (m)		Reading (m ³)	Current (A)	Voltage (V)	Frequency (Hz)	Current (A)	Voltage (V)	Frequency (Hz)	level
1	08:00											
2	10:00											
3	12:00											
4	14:00											
5	16:00											
6	18:00											
7	20:00											
8	22:00											
9	00:00											
10	02:00											
11	04:00					•						
12	06:00											

Monitoring of Operation of Holyrood BH 35E under operation with Variable Speed Drive

Period:

Ser		Flow	Delivery	Dynamic Water	Meter	Ir	put to Pu	ımp		nput to Driv	e e
No	I Date I	(m ^{3/} hr)	Pressure (m)		Reading (m ³)		_	Frequency	Current		Frequency
1	1st day of Current Month					(A)	(V)	(Hz)	(A)	(V)	(Hz)
	15th day of current Month										
	End of Current month										