

DATA ON WATER QUALITY

The quality of surface water and groundwater for domestic use is regularly monitored over the island by Water Resources Unit and Central Water Authority. Sampling exercises are carried out at points on rivers and at boreholes as depicted in Fig. 6.1 and Fig. 6.2 respectively.

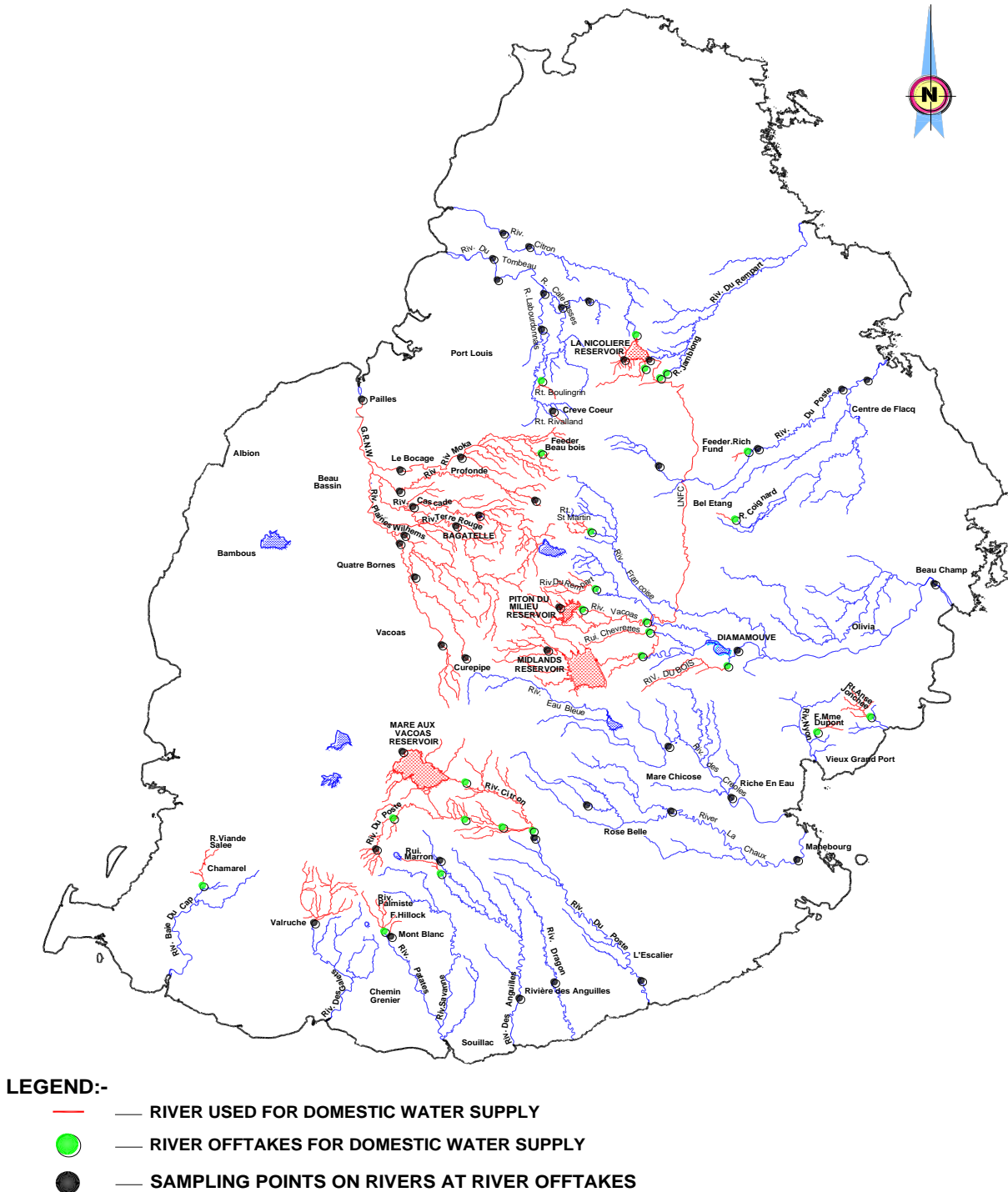
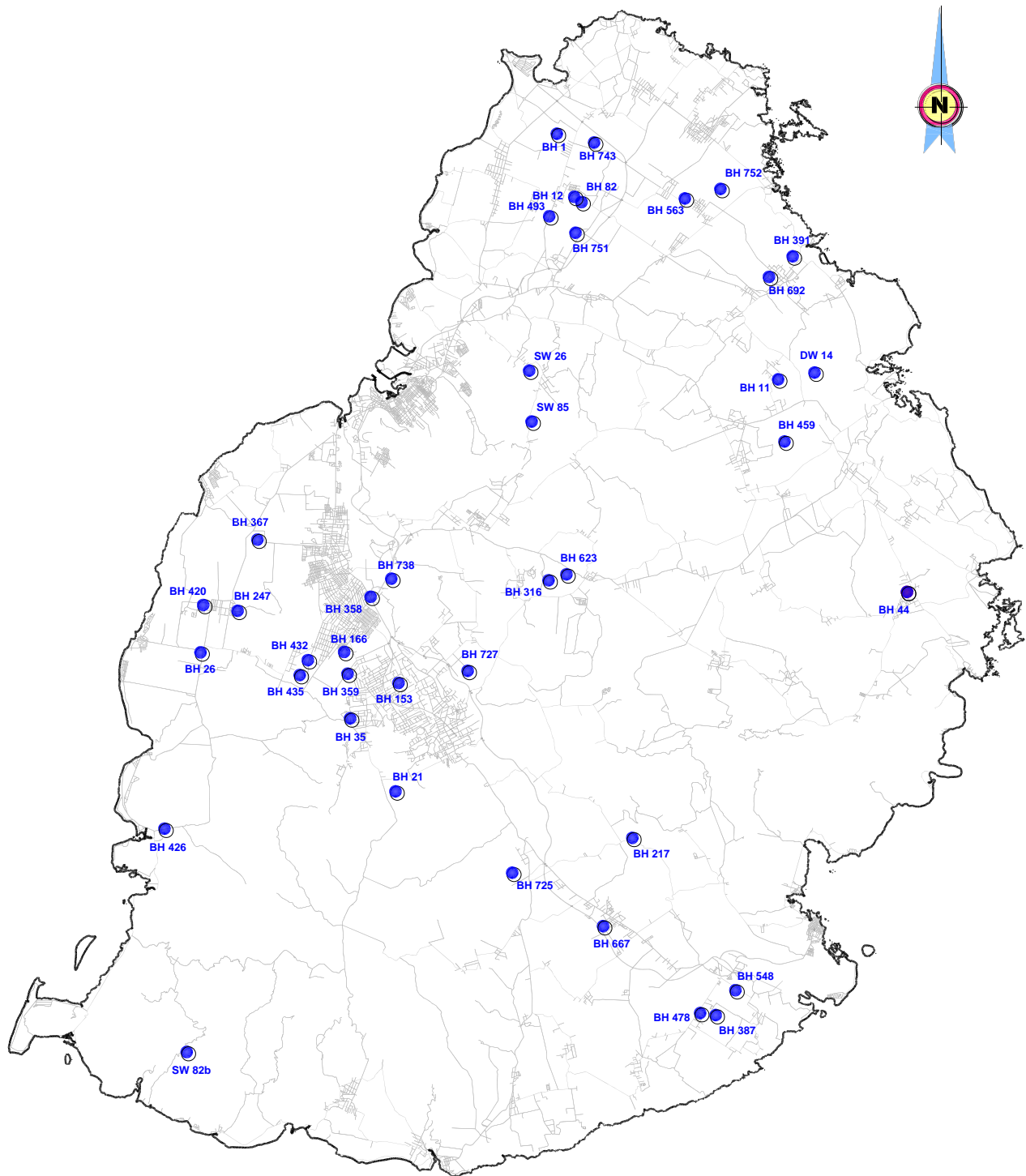


Fig. 6.1 – Location of Sampling points on rivers.



LEGEND

● — SAMPLING POINTS AT BOREHOLES

Fig. 6.2 – Location of Sampling points at boreholes.

SAMPLING POINTS ON RIVERS

RIVER	SAMPLING POINT
SECHE	FLOREAL
	TRIANON behind Margarine
MESNIL	CUREPIPE
	VALENTINA
PLAINES WILHEMS	TRIANON near Margarine
MOKA	SOUILLAC BRIDGE near Le Bocage
	ROSELYN COTTAGE
TERRE ROUGE	CINQ ARPENTS
PROFONDE	ALMA
	REDUIT
CASCADE	CAMP AUGUSTE
	REDUIT
CITRON	POWDER MILLS
	SSRN pt of discharge
LABOURDONNAIS	CRREVE COEUR BRIDGE
	BAILLACHE BRIDGE
	CALEBASSE DAM
DU TOMBEAU	BOIS MARCHAND
	ARSENAL BRIDGE
CALEBASSES	ILOT BRIDGE
	CALEBASSE DAM
LA CHAUX	BALISSON
	ASTROEA BRIDGE
	BEAU VALLON
DES CREOLES	LE VAL
	DAM before RICHE EN EAU SE
DRAGON	BATIMARAIS
DU POSTE	LA SOURDINE
	GRAND BASSIN
	INLET TO TREATMENT PLANT
	DOWNSTREAM TO MAURIFARMS
DES ANGUILLES	near Gooly Fils at BOIS CHERI
	RIV DES ANGUILLES BRIDGE
GRNW	PAILLES
DU POSTE DE FLACQ	CAMP THOREL
	ROCHE DAM
	CAMP POORUN
	CHEVREAUX BRIDGE
GRSE	LA CHARTREUSE
	SANS SOUCI
	DEEP RIVER BEAU CHAMP BRIDGE

SAMPLING POINTS AT BOREHOLES

BH NO.	NAME
1	MON CHOISY (FOND DU SAC)
12	PLAINE DES PAPAYES
82	BELLE VUE MAURICIA
493	MORCELLEMENT ST ANDRE
563	COTTAGE
SW26	CAMP LA BOUE
SW85	BASSIN LOULOU
692	LA CLEMENCE
743	FOND DU SAC
751	LA LOUISA
752	POUDRE D'OR
391	HAUTE RIVE
435	BASSIN
358	ST JEAN
738	TRIANON
166	SOLFERINO (CANDOS)
432	PALMA
359	SOLFERINO (DOOKUN)
35	HOLYROOD BH
247	EAU BONNE
26	PALMYRE
426	YEMEN
367	ST MARTIN
623	BONNE VEINE
153	ST PAUL
21	BEARD
727	CAMP FOUQUEREAUX
316	ALMA
11	LAVENTURE
14	PETITE RETRAITE
459	CONSTANCE
420	BELLE ROSE
44	BEL AIR CAROLINE
SW82B	CHOISY
217	CLUNNY
548	MON DESERT
478	TROIS BOUTIQUES
667	GEBERT ROAD
725	NEW NOUVELLE FRANCE
387	CAFÉ

Variation in Water Quality

Tables 6.1 and 6.2 give the range of values obtained from the various chemical analysis of groundwater and river water.

PARAMETER	Groundwater	WHO Standards for drinking water
pH	6.0-8.4	6.5-8.5
Conductivity ($\mu\text{s/cm}$)	140-1000	-
Turbidity (mg/l)	0-2.0	5.0
Nitrate as N (mg/l)	0.0-5.0	-
Nitrite as N (mg/l)	0.000-0.003	0.1
Phosphate (mg/l)	0.0-0.5	2.2
Ammonia as N (mg/l)	0.00-0.01	-
COD (mg/l)	0-5	-
TDS (mg/l)	65-300	1000
Sulphate (mg/l)	5-100	-
Chloride (mg/l)	20-240	-

Table 6.1 Variation in Groundwater Quality

Source: CWA

PARAMETER	River Water	WHO Standards For drinking water
pH	6.5-8.3	6.5-8.5
Conductivity ($\mu\text{s/cm}$)	70-300	-
Turbidity (mg/l)	0.5-10.0	5.0
Nitrate as N (mg/l)	0.0-5.0	-
Nitrite as N (mg/l)	0.000-0.006	0.1
Phosphate (mg/l)	0.00-0.05	2.2
Ammonia as N (mg/l)	0.00-0.05	-
COD (mg/l)	0-20	-
TDS (mg/l)	30-140	1000

Table 6.2 Variation in River Water Quality

Source: CWA