MCWAP Technical Module: Definition of options for URV calaculation

12/9/2008

Code	Description
0	
4	Scenario 4 -
8	Scenario 8 -
B	Boschkop
B1	Balancing Reservoir
BV	Boschkop through Vlieepoort
C	via Central Route to
D1	Terminal Dam 1
D3	Terminal Dam 3
DB1	and delivery from the Balancing Reservoir
DD1	and deliver via Delivery Route 1
DD3	and deliver via Delivery Route 3
E	via Eastern Route to
ID1	via pump/gravity main to the users
IW1	via rising main to users
MD	Mokolo Dam
P1A	Phase 1A, transfer from
P2	Phase 2, transfer from
P2A	Phase 2A (first pipeline), transfer from
P2B	Phase 2B (second pipeline), transfer from
P3	Phase 3, transfer from
RBW	weir in Mokolo River (River Bend)
RM	Mokolo River and Mokolo River Management
RMB	River Management up to Boschkop
RMV	River Management up to Vlieepoort
V	Vlieepoort
W	via Western Route to

Scenario	Project Phase	RIVER	RIVER MONITORING	SOURCE	TRANSFER SYSTEM			DISTRIBUTION	Option / File Name		COMMENTS
					FROM	ROUTE	TO				
4	P2	RC	RMV	V	TV	W	D1	DD1	4-P2-TV WD1-DD1		Scenario 4 - Phase 2, transfer from Vlieepoort via Western Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2	RC	RMV	V	TV	W	D3	DD3	4-P2-TV WD3-DD3		Scenario 4 - Phase 2, transfer from Vlieepoort via Western Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2	RC	RMV	V	TV	W	B1	DB1	4-P2-TV WB1-DB1		Scenario 4 - Phase 2, transfer from Vlieepoort via Western Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P2	RC	RMV	V	TV	C	D1	DD1	4-P2-TV CD1-DD1		Scenario 4 - Phase 2, transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2	RC	RMV	V	TV	C	D3	DD3	4-P2-TV CD3-DD3		Scenario 4 - Phase 2, transfer from Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2	RC	RMV	V	TV	C	B1	DB1	4-P2-TV CB1-DB1		Scenario 4 - Phase 2, transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P2	RC	RMB	B	TB	E	D1	DD1	4-P2-TBED1-DD1		Scenario 4 - Phase 2, transfer from Boschkop via Eastern Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2	RC	RMB	B	TB	E	D3	DD3	4-P2-TBED3-DD3		Scenario 4 - Phase 2, transfer from Boschkop via Eastern Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2	RC	RMB	B	TB	E	B1	DB1	4-P2-TBEB1-DB1		Scenario 4 - Phase 2, transfer from Boschkop via Eastern Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P2	RC	RMB	B	TB	C	D1	DD1	4-P2-TBCD1-DD1		Scenario 4 - Phase 2, transfer from Boschkop via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2	RC	RMB	B	TB	C	D3	DD3	4-P2-TBCD3-DD3		Scenario 4 - Phase 2, transfer from Boschkop via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2	RC	RMB	B	TB	C	B1	DB1	4-P2-TBCB1-DB1		Scenario 4 - Phase 2, transfer from Boschkop via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P1A	RM	RM	RBW	RBW			IW1	4-P1A-RBW-IW1		Scenario 4 - Phase 1A, transfer from weir in Mokolo River (River Bend) via rising main to users
4	P1A	RM		MD	MD			ID1	4-P1A-MD-ID1		Scenario 4 - Phase 1A, transfer from Mokolo Dam via pump/gravity main to the users
4	P2A	RC	RMV	V	TV	C	D1	DD1	4-P2A-TV CD1-DD1		Scenario 4 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2A	RC	RMV	V	TV	C	D3	DD3	4-P2A-TV CD3-DD3		Scenario 4 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2A	RC	RMV	V	TV	C	B1	DB1	4-P2A-TV CB1-DB1		Scenario 4 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P2B	RC	RMV	V	TV	C	D1	DD1	4-P2B-TV CD1-DD1		Scenario 4 - Phase 2B (second pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P2B	RC	RMV	V	TV	C	D3	DD3	4-P2B-TV CD3-DD3		Scenario 4 - Phase 2B (second pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P2B	RC	RMV	V	TV	C	B1	DB1	4-P2B-TV CB1-DB1		Scenario 4 - Phase 2B (second pipeline), transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
4	P3	RC	RMB	BV	TBV	C	D1	DD1	4-P3-TBVCD1-DD1		Scenario 4 - Phase 3, transfer from Boschkop through Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
4	P3	RC	RMB	BV	TBV	C	D3	DD3	4-P3-TBVCD3-DD3		Scenario 4 - Phase 3, transfer from Boschkop through Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
4	P3	RC	RMB	BV	TBV	C	B1	DB1	4-P3-TBVCB1-DB1		Scenario 4 - Phase 3, transfer from Boschkop through Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2	RC	RMV	V	TV	W	D1	DD1	8-P2-TV WD1-DD1	1A	Scenario 8 - Phase 2, transfer from Vlieepoort via Western Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2	RC	RMV	V	TV	W	B1	DB1	8-P2-TV WB1-DB1	1A	Scenario 8 - Phase 2, transfer from Vlieepoort via Western Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2	RC	RMV	V	TV	C	D1	DD1	8-P2-TV CD1-DD1	1B	Scenario 8 - Phase 2, transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2	RC	RMV	V	TV	C	D3	DD3	8-P2-TV CD3-DD3	1B	Scenario 8 - Phase 2, transfer from Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
8	P2	RC	RMV	V	TV	C	B1	DB1	8-P2-TV CB1-DB1	1C	Scenario 8 - Phase 2, transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2	RC	RMB	B	TB	E	D1	DD1	8-P2-TBED1-DD1	3A	Scenario 8 - Phase 2, transfer from Boschkop via Eastern Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2	RC	RMB	B	TB	E	D3	DD3	8-P2-TBED3-DD3	3A	Scenario 8 - Phase 2, transfer from Boschkop via Eastern Route to Terminal Dam 3 and deliver via Delivery Route 3
8	P2	RC	RMB	B	TB	E	B1	DB1	8-P2-TBEB1-DB1	3C	Scenario 8 - Phase 2, transfer from Boschkop via Eastern Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2	RC	RMB	B	TB	C	D1	DD1	8-P2-TBCD1-DD1	3B	Scenario 8 - Phase 2, transfer from Boschkop via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2	RC	RMB	B	TB	C	D3	DD3	8-P2-TBCD3-DD3	3B	Scenario 8 - Phase 2, transfer from Boschkop via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
8	P2	RC	RMB	B	TB	C	B1	DB1	8-P2-TBCB1-DB1	3D	Scenario 8 - Phase 2, transfer from Boschkop via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P1A	RM	RM	RBW	RBW			IW1	8-P1A-RBW-IW1	JvdM	Scenario 8 - Phase 1A, transfer from weir in Mokolo River (River Bend) via rising main to users
8	P1A			MD	MD			ID1	8-P1A-MD-ID1	JvdM	Scenario 8 - Phase 1A, transfer from Mokolo Dam via pump/gravity main to the users
8	P2A	RC	RMV	V	TV	C	D1	DD1	8-P2A-TV CD1-DD1	2.1B	Scenario 8 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2A	RC	RMV	V	TV	C	D3	DD3	8-P2A-TV CD3-DD3	2.1B	Scenario 8 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 3 and deliver via Delivery Route 3
8	P2A	RC	RMV	V	TV	C	B1	DB1	8-P2A-TV CB1-DB1	2.1C	Scenario 8 - Phase 2A (first pipeline), transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2B	RC	RMV	V	TV	C	D1	DD1	8-P2B-TV CD1-DD1	2.2B	Scenario 8 - Phase 2B (second pipeline), transfer from Vlieepoort via Central Route to Terminal Dam 1 and deliver via Delivery Route 1
8	P2B	RC	RMV	B	TB	C	B1	DB1	8-P2B-TBCB1-DB1		Scenario 8 - Phase 2B (second pipeline), transfer from Boschkop via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P2B	RC	RMV	V	TV	C	B1	DB1	8-P2B-TV CB1-DB1	2.2C	Scenario 8 - Phase 2B (second pipeline), transfer from Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir
8	P3	RC	RMB	BV	TBV	C	B1	DB1	8-P3-TBVCB1-DB1	5	Scenario 8 - Phase 3, transfer from Boschkop through Vlieepoort via Central Route to Balancing Reservoir and delivery from the Balancing Reservoir

KEY

RC	Crocodile River
RM	Mokolo River
RMB	River Monitoring from Dams up to Boschkop
RMV	River Monitoring from Dams up to Vlieepoort
V	Vleeipoort Weir
B	Boschkop Weir
1AW	Mokolo Weir
1AD	Mokolo Dam
TV	Transfer system from Vleeipoort Weir
TB	Transfer system from Boschkop Weir
P2ATV	Phase 2A Transfer System from Vleeipoort Weir (Half Capacity - 1st stage)
P2BTV	Phase 2B Transfer System from Vleeipoort Weir (Full Capacity - 2nd stage)
P3TBV	Phase 3 Transfer System from Boschkop Weir to Vleeipoort
W	Western Route
C	Central Route
E	Eastern Route
D1	Terminal Dam 1
D3	Terminal Dam 3
B1	Balancing Reservoir 1
DD1	Delivery from Terminal Dam 1
DD3	Delivery from Terminal Dam 3
DB1	Delivery from Balancing Reservoir
RBW	Phase 1A Weir
MD	Phase 1A Dam
IW1	Interim Pipeline from Weir 1
ID1	Interim Pipeline from Dam 1
EU	End User