

GO <OMI>A MEETSE KA BOHLALE

LEANO LA BOSET <HABA LA METHOPO YA MEETSE LA AFRIKA BORWA
Sengwalwa sa Tshedimo >o

August 2002

NT<HA MAIKUTLO A GAGO

Sengwalwa se sa Tshedimo>o se hwet>agala ka maleme a 11. Se t>welet>a dintlha t>e bohlokwa ka go Ngotlofat>o ya Leano-kakanywa la Boset>haba la Methopo ya Meetse leo le phatlaladit>wego ka Kuranteng ya Mmu>o ka August 2002 gore batho ba nt>he maikutlo a bona.

Le ge Kgoro ya Merero ya Meetse le Kagodikgwa e >et>e e swere dipoledi>ano le set>haba mabapi le dintlha t>e mmalwa t>a Leano, go bohlokwa go kwa maikutlo a lena ka kakaret>o mabapi le Leano le.

Hle maikutlo a lena a be fihlile go rena ka di 31 Janaware 2003

Go na le ditsela t>e nt>i t>a go re fa maikutlo a lena: O ka tlat>a letlakala la maikutlo leo le lego ka gare., o ka ngwala lengwalo, o ka romela e-mail goba wa tsenela ye nngwe ya dikopano t>a theri>ano le set>haba t>eo di tla swarwago naga ka bophara go gareng ga September 2002 (bona lenaneo la gona mafelelong a sengwalwa se).

Re kgopela gore o thu>e go phatlalat>a sengwala se go batho bao ba dikilego ba gatelet>we, go akaret>wa le ba>omedi ba gago. Dikhopi t>e dingwe di hwet>agala go:

NWRS Public Consultation Office
Ms Toni Pieterse / Ms Qondile Sibiyi
P O Box 95823, Waterkloof, 0145
Tel: (012) 362 0848;
Fax: (012) 362 0869
Email: toni@liaison.co.za goba
Qondile@liaison.co.za

Dikgati>o ka botlalo goba dikgati>o tseo di ngotlofadit>wego di hwet>agala mafelong a bohle naga ka bophara (bona lenaneo la mafelo ao mafelelong a sengwalwa se)

goba go: www.dwaf.gov.za.

O ka >omi>a le website go re maikutlo a gago.

Kgoro ya Merero ya Meetse le Kagodikgwa e t>weledit>e Leano-kakanywa la Boset>haba la Methopo ya Meetse gore batho ba Afrika Borwa ba nt>he maikutlo a bona.



Leano la Boset >haba la Methopo ya Meetse le hlalo >a ditsela methopo ya meetse ya Afrika Borwa e tla >irelet >wago, ya >omi >a, ya hlabollwa, ya sepedi >wa le go laolwa ka gona.

Ka gobane Leano le ka ama tsela yeo bohle re >omi >ago meetse ka gona, go bohlokwa gore batho ba nt >he maikutlo bona mabapi le Leano-Kakanywa.

1. KE KA LEBAKA LA ENG RE HLOKA LEANO?

Meetse ke tshika ya bophelo. A no>et>a ma>emo a balemi; a no>et>a dibjalwa ebile a newa ke diruiwa t>a batho ba magaeng; ke a boithabi>o; a thekga lenaneo la go fehla mohlagaase, ditoropo t>a rena t>e nnyane le t>e kgolo, meepo, diintasteri gammogo le mehlare le diphoofolo t>eo elege bohwa bja rena bja tlhago.

Kabo ya go tshepega ya meetse a go hlweka, meetse a tlhweki>o le kelelatshila le meetse a no>et>a dibjalwa a bohlokwa go fedit>a bohloki mo Afrika Borwa. Mananeo a tlhabollo ya mafelo a magaeng gammogo le tso>olo>o ya mafelo a ditoropong a ithekgile ka meetse go fihlelela dinepo t>a wona.

Maikarabelo-magolo a Kgoro ya Merero ya Meetse le Kagodikgwa ke go netefat>a gore meetse a lekanego a khwalithi yeo e amogegago a dula a le gona go kgotsafat>a dinyakwa t>a motheo le go thekga tlhabollo ya ikonomi le set>haba.

Le ge go le bjalo, Afrika Borwa ke naga ya lenyora. Methopo ye meetse ga e nene. Thari e t>wela pele go ata. Nyakego ya tlhabollo ya mafelo a ditoropong le ikonomi e a gola gomme le nyakego ya meetse e a oket>ega. Go le bjalo, ditiro t>a batho di baka t>hilafat>o le mathata a khwalithi ya meetse.

Bjalo ka naga, re ka se no leta go fihlela go t>welela mathata khwalithi le tlhokego ya meetse. Re hloka leano la nako ye e telele go itebanya le ditlhohele t>e, le go bont>ha ka moo Mo-Afrika Borwa yo mongwe le yo mongwe a ka kgathago tema ka gona. A ke maikemi>et>o a Leano le Boset>haba la Methopo ya Meetse.

2. A LEANO LA BOSET<HABA LA METHOPO YA MEETSE LE <EPEDI<ANA LE MOLAOTHEO WA AFRIKA BORWA?

Molaotheo ke molao o mogologolo wa naga. Melao ye mengwe ka moka e swanet>e go nyalana le molaotheo. Molaotheo o re bohle ba na ke tokelo ya dijo le meetse a lekanego le tikologo yeo e sego kotsi maphelong a bona.

Afrika Borwa gape e saenet>e Agenda 21, yeo elego leano la Bodit>habat>haba la thabollo yeo e se nago le khuet>o e mpe go tikologo le batho.

Molaotheo le Agenda 21 di thu>it>e tlhamong ya Molao o moswa wa Boset>haba wa Meetse wa Afrika Borwa ka 1997. Molao woo o hlalo>a ka moo meetse a tla laolwago ka gona le go abja go ya ka dilo tseo di lego bohlokwa go rena bjalo ka set>haba.

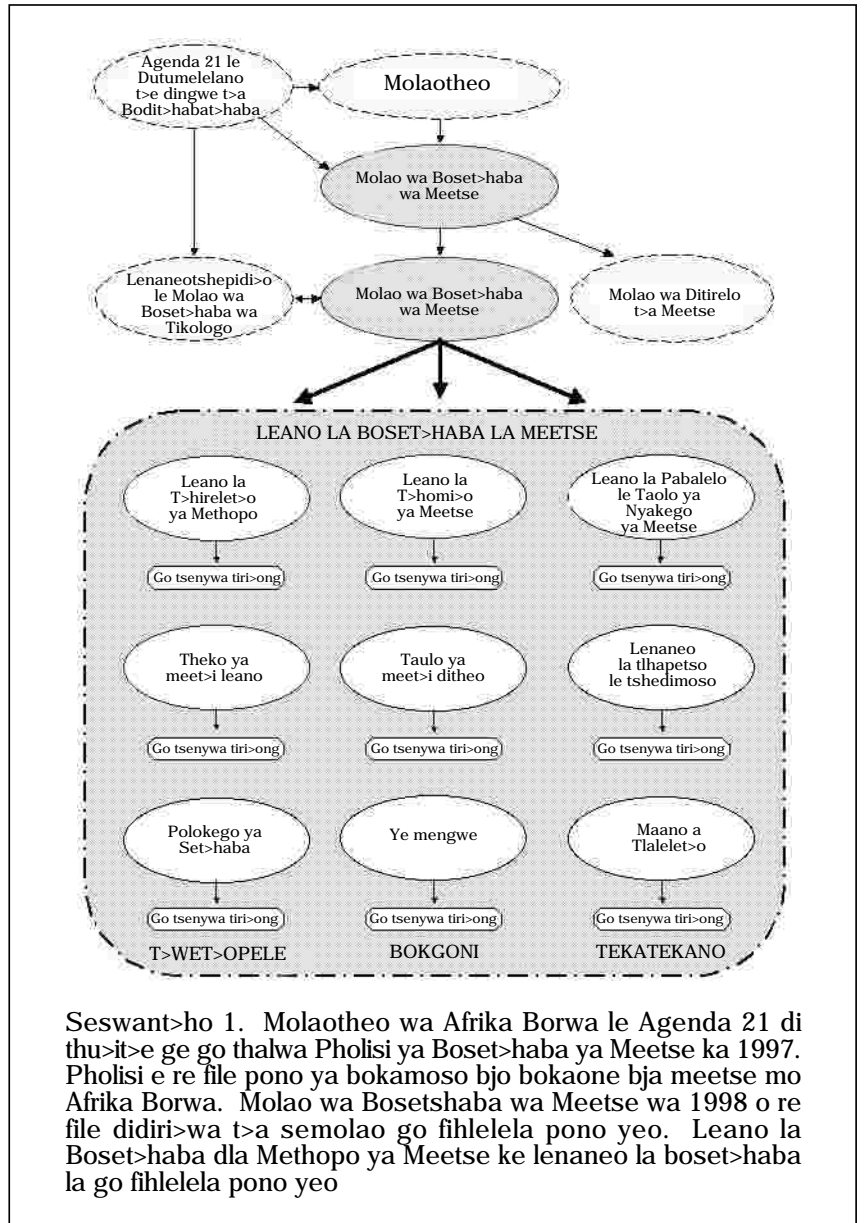
Go tsenya tiri>ong pholisi ya meetse, Melao-kakanywa e meswa e a hlangwa le go saenelwa go ba melao:

Molao wa Boset>haba wa Meetse (Act 36 of 1998)

- Molao wo o >et>ane le taolo ya methopo ya meetse. Nepo ya wona ke go netefat>a gore go tla dula go na le meetse a go kgotsofat>a dinyakwa tsa motheo t>a batho bakeng sa thabollo ya ikonomi gona bjale le ka moso. Leano la Boset>haba la Taolo ya Methopo ya Meetse le ntlha yeo ya taolo ya meetse.

Molao wa Ditirelo t>a Meetse (Act 108 of 1997)

- Molao wo ke wa tokelo ya go fihlelela kabo ya motheo ya meetse le tlhweki>o. O >et>ane le ka moo baabi ba ditirelo tsa kabo ya meetse bjalo ka diboto t>a meetse le bommasepala ba abelago badiri>i ba meetse ka magaeng le diintastering.



Leano la Boset>haba la Methopo ya Meetse ga le a lebelelana le dintlha t>e. Go na le lenaneo la ka thoko la kabo ya meetse le tlhweki>o. Ditsela tseo mebuso ya selegae e tla abelago badiri>i ditirelo t>a meetse ka gona di tla hloswa ka go Maano a Thabollo ya Ditirelo t>a Meetse ao lekala le lengwe le le lengwe la tirolo ya meetse le swanet>ego go le thala.

3. GO FAPANA KA ENG LE PELENG?

Pholisi ya meetse le Molao wa Boset>haba wa Meetse di bont>ha gore ka moso meetse a tla laolwa le go abja ka tsela ye e fapanego le peleng:

- Meetse ke mothopo wa tlhago. Ke a batho ba Afrika Borwa ka moka. Kgoro e swanet>e go hlokomela mothopo wo (meetse le tikologo ya wona) legatong la batho ba Afrika Borwa.
- Tokelo e nno>i ya meetse, go ya ka molao, ke ya meetse a dinyakwa t>a motheo t>a batho (mohl. a go apea, go nwa le go hlapa) le a tikologo. Wona a bit>wa "Reserve" ka Molao wa Boset>haba wa Meetse. Kgoro e ka abelana ka meetse fela ka morago ga gore meetse a "Reserve" a beelwe ka thoko.
- Molao o re batho ba swanet>e go kgatha tema taolong ya methopo ya meetse. Taolo ya methopo ya meetse e tla ba legatong la fasefase ka moo go kgonegago. Go kgonagat>a se, Molao o hlamile ditheo (di-institu>ene) t>eo batho ba ka kgathago tema go t>ona.
- Methopo ya meetse e tla laolwa ka bojohle bja yona. Dinoka, matamo, mehlaka, lefase le lego mo tikologong, meetse a ka fase ga mabu, gammogo le ditiro t>a batho t>eo di nago le khuet>o go dilo t>e, e tla laolwa bja'ka selo se tee.

4. SEEMO SA METHOPO YA MEETSE YA AFRIKA BORWA SE BJANG LEHONO?

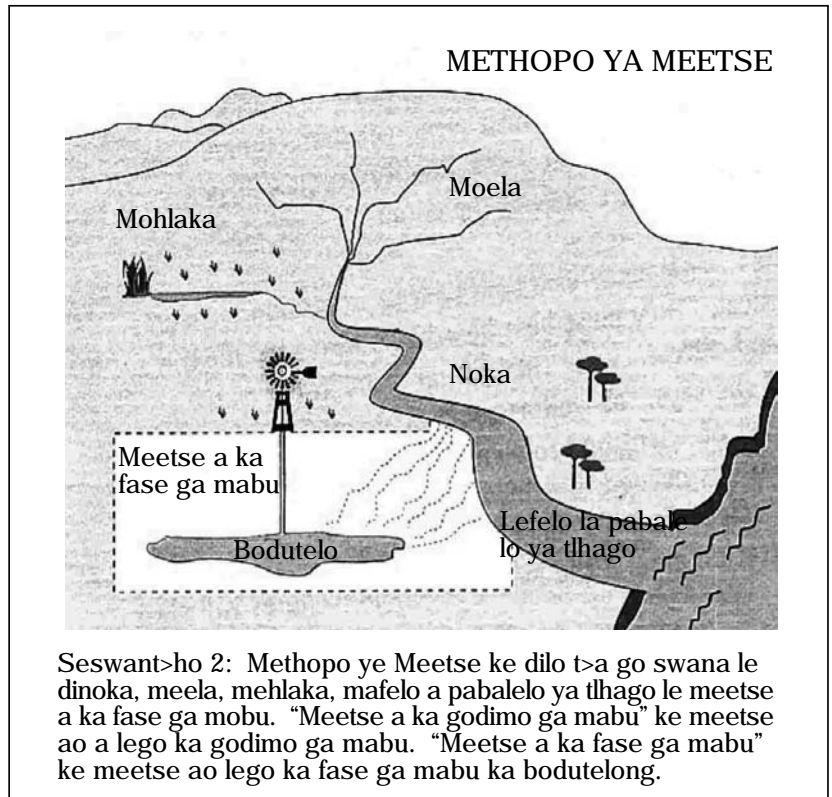
4.1 A re na le meetse a lekanego?

Afrika Borwa ke naga ya go oma. Re nelwa ke pula ya palogare ya 450 mm ka ngwaga. Ye ke kelo ya fase kudu ge e bapetwa le palogare ya lefase ye e lekanyetwago go 860 mm ka ngwaga.

Pula yeo e re nelago e fapana kudu go ya ka mengwaga. Naga ye gape e bekilwe ke komelelo.

Dinoka t>a Afrika Borwa ke t>e nnyane ka bogolo ge di bapetwa le dinoka t>a dinaga t>e dingwe. Meetse a noka ya Orange ke 10% fela ge a bapetwa ke la noka ya Zambezi. Meetse a dinoka t>a Afrika Borwa ka moka ge di kopane a ka fase ga seripagare sa meetse a noka ya Zambezi. Gape re abelana bont'i bja dinoka t>a rena, go swana le Orange/Senqu le Limpopo, le dinaga t>e dingwe t>eo le t>ona di >omi>ago meetse a dinoka t>e.

Dinyaki>i>o t>a Kgoro di bont>hit>e gore a godimo ga mafelo 19 a taolo ya meetse a 11 (bona Seswant>ho 3) mo nageng a na le mathata a meetse. Mo mafelong a, batho ba >omi>a meetse a mant>i moo elego gore tikologo e ka tlase ga kgatelelo e kgolo, gomme seo se baka gore badiri-i ba bangwe ba meetse ba se hwet>e kabo ya bona ya maleba.



Meetse a ka fasega mabu a bohlokwa kudu mafelong a magaeng, eup>a, Afrika Borwa e na le mefelo a magolo a mmalwa a go duta meetse ka fase ga mabu (ground water aquifers) ao a ka >omi>wago ke bont>i.

4.2 A re na le meetse a khwalithi ye e amogelegago?

Ga se meetse a rena ka moka ao elego a khwalithi ye e amogelegago. A mangwe a t>hilafadiit>we.

Mo nageng ka bophara, t>at>i le lengwe le le lengwe, mekgatlo le batho fela ba ba le khuet>o go khwalithi ya meetse a ka dinokeng le meeleng, a ka fase ga mabu le a mehlaka. Le badiri-i ba meetse a ka gae ba na le khuet>o go khwalithi ya meetse ka go t>hollela pente, oli le dilo t>e dingwe t>e kotsi ka go kelelat>hila ya meetse.

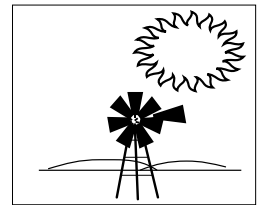
Mathata a magolo a khwalithi ya meetse mo Afrika Borwa a bakwa ke meetse a dit>hila go t>wa diintastering le meepong, menont>ha ya temo, kgogolego, dit>hila/ditlakala t>a go t>wa ka magaeng, tlhokego ya mananeo a tlhweko le ditragalo t>e dingwe t>e nt>i. T>ona di baka mathata a khwalithi ya meetse go swana le kelo ya godimo ya leswai, meetse a esiti, t>hilafat>o ya baktheria le t>hilafat>o ya dilo t>a mpholo. T>hilafat>o ya meetse a baka mathata a mant>i.

Go no fa mohlala, baktheria yeo e tsenago ka meentseng ka lebaka la tlhokego ya mananeo a tlhweki>o e ka baka kholera, yeo e ka bolayago batho. Gape, go a tura go hlweki>a meetse a t>hilafet>ego gire re kgone go ka a >omi>a gape, gomme seo se ra gore batho ba tla swanelwa ke go lefela meetse ka t>helete ye e okedit>wego.

4.3 A re >omi>a meetse ka tshwanelo?

Meetse a kelo ye e ka bago 60% mo nageng a >omi>wa lefapheng la temo ya no>et>o. Badiri-i ba ka magaeng le ba ditropong ba >omi>a meetse a ka bago 11% gomme meepo le diintasteri tse dingwe tse kgolo di >omi>a kelo ye e ka 8%. Dithokgwa t>a kgwebo le t>ona di >omi>a meetse a kelo ye e ka bago 8%.

Mafapha a mangwe a ikonomi go swana le t>welet>o le go fehla mohlagase a >omi>a meetse a manyane go t>welet>a letseno la godomo bakeng sa naga ye le batho ba yona (se se bit>wa Gross Domestic Product goba GDP). Mafapha a gape a fa batho me>omo ya go tsebalega. Mafapha a mangwa go swana le temo ya no>et>o a >omi>a meetse a mant>i go t>welet>a letseno la fase le me>omo e mennyane.



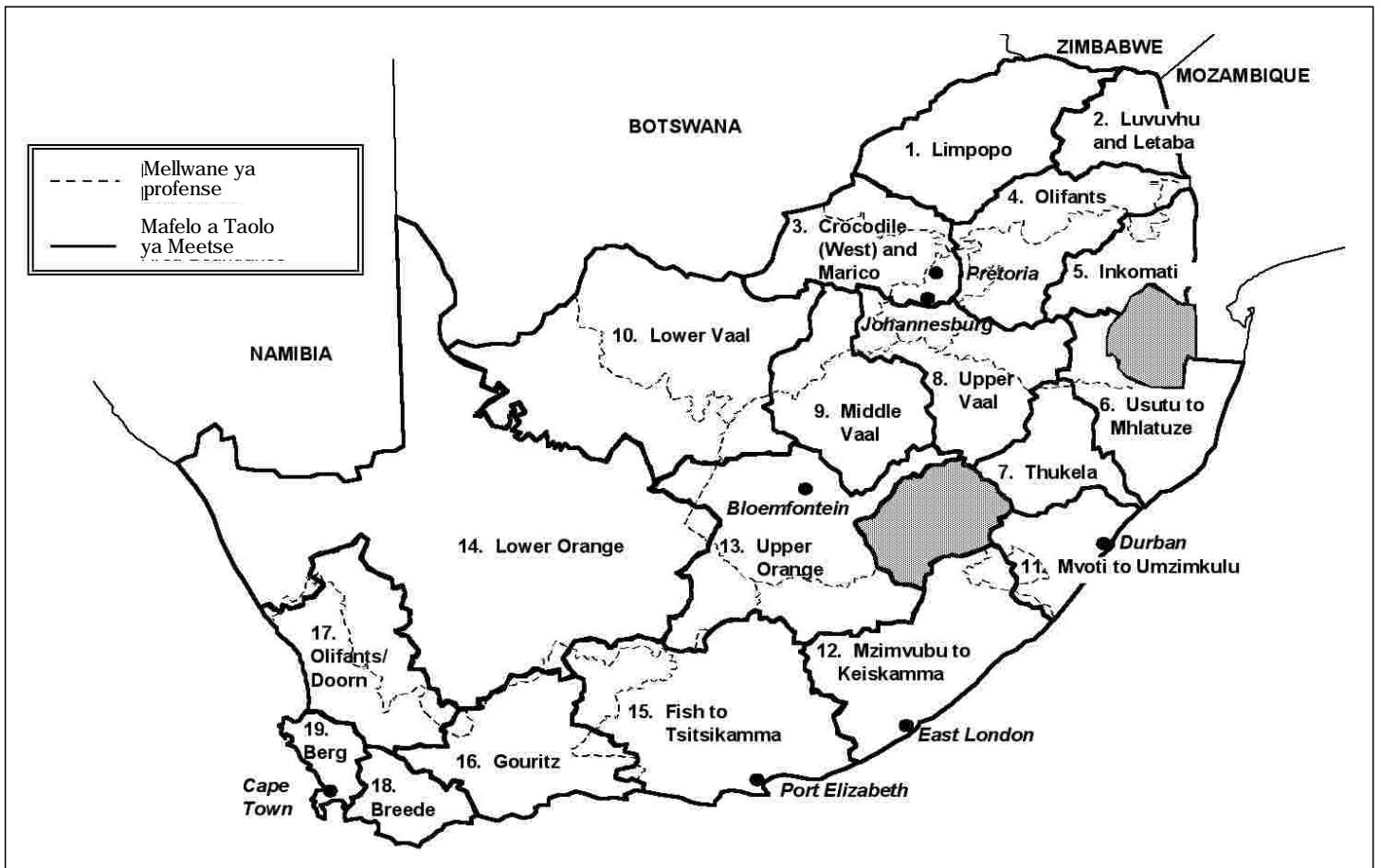
Ka boripana:

Ga re na le meetse a lekanego. Ge t>hilafat>o e le gare e oket>ega gomme le nyakego ya tlhabollo e golela pele, re tla no t>welapele go goga boima go hwet>a meetse a khwalithi ye e amogelegago.

Ga se meetse ka moka ao e lego a khwalithi ye e amogelegago. Re swanet>e go ba le melao e methata ya go thibela t>hilafat>o ya meetse le go laola t>hilafat>o yeo re sa kgonego go e phema.

Makala a mangwe a ikonomi ga a >omi>a meetse ka tshwanelo go ya ka moo go nyakegago.

Maikemi>et>o ka Leano la Bosetshaba la Methopo ya Meetse ke go fetola fetola seemo se mo nakong e telele gore re setshaba le ikonomi di kgone go holega kudu ka meetse a manyane ao a lego gona.



Seswant>ho 3: Afrika Borwa e arogant>we ka Mafelo a Taolo ya Meetse a 19 (Water Management Areas) (Government Notice No. 1160, October 1999). Lemoga gore Lefelo le lengwe le le lengwe la Taolo ya Meetse le na le nomoro. A lesometee a mafelo a a na le meetse a ka fase ga ao a hlokegago.

5. NAA METHOPO YA MEETSE E TLA LAOLWA BJANG MO NAKONG YE E TLAGO?

5.1 Metho ya taolo ya meetse

Re swanet>e go >omi>a meetse ka bohla. Metho e meraro e bohlokwa go t>wa go Pholisi ya Meetse le Molao wa Boset>haba wa Meetse di laola t>ohle t>eo re di dirago taolong ya meetse:

- Sustainability. Se se ra gore re swanet>e go >omi>a meetse tlhabollo ya set>haba le ikonomi eup>a, le ge go le bjalo, re swanet>e go >irelet>a tikologo yeo meetse a rena a t>wago gona. Ge re ka kgona go fihlelela tekatekano e botse gareng ga t>homi>o le t>hirelet>o ya methopo ya meetse, gore gore re tla kgona go kgotsofat>a dinyakwa t>a rena t>a meetse le dinyakwa t>a bana ba rena, gammogo le dinyakwa t>a bana ba bana ba rena.
- Tekatekano. Se se ra gore modudi yo mongwe le yo mongwe wa naga o swanet>e go kgona go fihlelela meetse le mehola ya go >omi>a meetse. Diphetho t>a kabo ya meetse di swanet>e go bont>ha se.
- Efficacy. Se se ra gore re swanet>e go netefatsa gore meetse a senywe. Meetse a swanet>e go >omi>wa gabotse ka moo go kgonegago go hola set>haba le ikonomi.

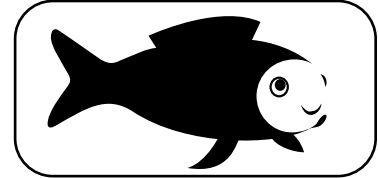


5.2 Nepo ya taolo ya meetse

Ga ra huma ka meetse. Methopo ya rena ya meetse e lebagane le dinyakwa le mathata a golago. Mo nakong ye e fetilego, meetse a be a sa abje ka tshwanelo. Gant'i meetse a a senywa. Kafao, Kgoro e beile dinepo t>a taolo ya meetse go re i>a bokamosong bjo bokaone bja meetse:

- Go netefat>a gore go na le meetse a lekanego go kgotsfat>a dinyakwa t>a motheo t>a batho
- Go netefet>a gore tikologo ya tlhago e a >irelet>wa
- Go netefat>a gore bohle ba kgona go fihlelela meetse ka go lekana
- Go netefat>a gore meetse ga a senywe le gore a >omi>wa ka tshwanelo
- Go netefat>a gore go na le meetse a lekanego a ka moso, bakeng sa ikonomi ye e tiilego le set>haba se se atlegilego
- Go netefat>a gore bohle ba lefela seabe sa bona sa ditshenyegelo t>a meetse ao ba a >omi>ago, ka mant>u a mangwe, go netefat>a tekatekano ditefelong t>a meetse
- Go phethagat>a maikarabelo a rena go baagi>ani ba rena, Lesotho, Swaziland, Mozambique, Zimbabwe, Botswana le namibia.

Re tla ba le meetse a lekanego, meetse a lekanego a khwalithi ye e amogelelegago, ge fela re somisa meetse ka bohlale. A ke maikemi>et>o a Leano la Boset>haba la Mmethopo ya Meetse



5.3 Go hlama Leano la Boset>haba la Methopo ya Meetse

Leano la Boset>haba la Methopo ya Meetse ke lenaneo (framework) leo maano ka moka ao re a hlokago go laola methopo ya meetse a ka kopanago ka tsela ye e rulagant>wego gabotse. Molao wa Boset>haba wa Meetse o re Leano le sekasekwe leswa bonnyane morago ga mengwaga ye mengwe le ye mengwe ye mehlano.

Se ga se re gore re tla leta mengwaga ye mehlano pele re tsenya leano tiri>ong. Dihlopha t>a batho di dut>e di tsene fase go hlama mekgwa le mananeo a go tsenya tiri>ong dikarolo t>a go fapafapana t>a Leano, le go gati>a dikarolo t>e dingwe ka Kuranteng ya Mmu>o gore batho ba nt>he maikutlo a bona, le pele Leano la Boset>haba la Methopo ya Meetse ka no>i le lokela go ka gati>wa/phatlalat>wa. Dikaralo t>e dingwe t>a Leano, elego mekgwa ye e le mananeo a hlolo>ago ka botlalo gammogo le melwana di sa hlabollwa/hlangwa,

Re ka se kgone go tsenya dipholi>i le melao e meswa ka potlako. Re swanet>e go bea >edi e kgolo go ditiragalo t>e rilego t>a Mafelo a Taolo ya Meetse moo go hlokegago gore re t>ea dikgato ka pela, bja'ka mafelo ao go nago meetse a lekanego le mafelong ao meetse a t>hilafadit>wego.

Thekgo ya Leano la Boset>haba la Methopo ya Meetse – maano a tlalelet>o

- Go aga bokgoni, bjalo ka go kgopela mekgatlo ya thuto le tlhahlo go hlama dikho>o t>a maswanedi, dikho>o t>a diplomo le degree gammogo le mananeo a di-bursary.
- Go kgatha tema ga set>haba go kgont>ha bohle bao ba nyakago go kgatha tema go taolong ya meetse go dira bjalo. Kgoro e setse e hlamile lenaneo la go kgatha tema ga setshaba.
- Thuto le kwalakwat>o go lemosa batho ba Afrika Borwa gore meetse ke sediri>wa sa go hlokwa. Water Education Programme – 20/20 Vision of Water – e setse e soma dikolong t>e 10 000 naga ka bophara gomme e tla katolo>et>wa ditheong t>a thuto ye e phagamego (tertiary).
- Dinyaki>i>o go hlabolla tsebo le kwe>i>o ka nepo ya go oket>a bokgoni bja go hlabolla methopo ya meetse.



6. “T<HOMI<O YA MEETSE” KE ENG?

Molao wa Boset>haba wa Meetse o o lebelela t>homi>o ya meetse ka mokgwa wo o kgonagalago. Mo go Karalo 21, o hlalosa mekgwa ye lesometee ya go fapafapana ya t>homi>o ya meetse:

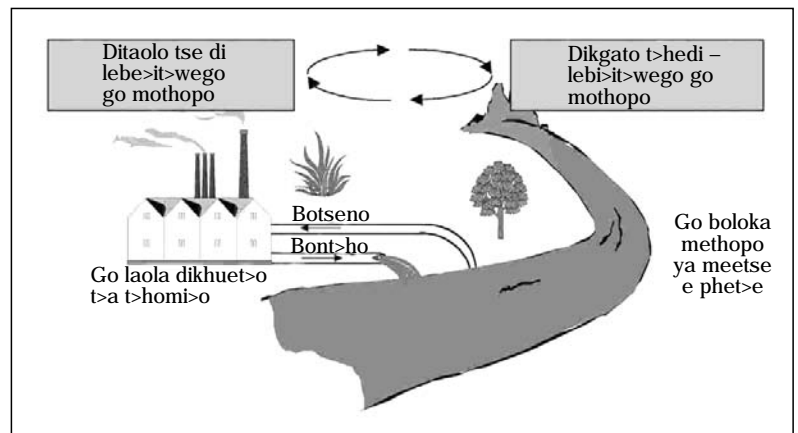
- go t>ea meetse mothopong wa go swana le moela, noka, bodutelo bja ka fase ga mabu, mohlaka goba “estuary” go a >omi>a
- go lota meetse go swana le go a bea ka letamong
- go thibela goba go fetola moela wa meetse go swana le, go fa mohlala, ge moela wa meetse a moela goba noka o >wanet>e go thibelwa goba go fetolwa go kgont>ha kago ya tsela e mpsha
- phokot>o ya moela wa meetse, go >omi>a meetse a pula go bjala mehlare goba dimela t>a go swana le diplantasi t>a dikgwa t>a kgwebo t>eo di >omi>ago meetse a mant>i go feta dimela t>a tlhago. Se se ra gore meetse a pula ao a ka bago a fihlile dinokeng a >omi>wa ke mehlare le dinoka
- ditiragalo t>e di laolwago go swana le go no>et>a ka meetse a “dit>hila”
- go t>hollela meetse a dit>hila thwii ka go mothopo wa meetse
- go t>hollela meetse a dit>hila mafelong a go swana le di-oxidation pond, “evaporation dam”,bj.bj.
- go lahlwa ga meetse a dit>hila a go fisa go t>wa diintastering le ditei>eneng t>a go fehla mohlagase
- go fetola khwiti, leriba goba moela wa meetse go swanale ge noka goba moedi o fetolelwa go kanala goba ge le>aba>aba la go aga le “rafsa” khwiting goba leribeng la noka
- go tlo>wa ga meetse a ka fase ga mabu go ya go >omi>wa mererong ya meepo le kago; le
- bothabi>o, dipapading t>a meetse go swana le go rutha.

Molao o re kgont>ha go >omi>a meetse ka ditsela t>e nt>i t>a go fapafapana go fihlelela tlhabollo ya ikonomo le set>haba/leago. T>e dingwe t>a ditsela t>e di ka ba le khuet>o e mpe go methopo ya meetse ge di sa laolwe ka tshwanelo. Go fa mohlala. Molao o dumelela diintasteri go t>hollela meetse a t>ona a dit>hila ka gare ga dinoka le meela, ge fela seo se dirwa ka tumelelo ya Kgoro gomme le melawana ya gona e maatla e latelwa go hlweki>a meetse a. Se se >irelet>a meetse mothopo wa meetse le badiri>i ba bangwe.

7. RE YA GO <IRELET<A METHOPO YA MEETSE BJANG KGAHLA-NONG LE GO <OMI<WA GO FETA TEKANYO LE T<HILAFAT<O?

Afrika Borwa e ithekgile kudu ka tlhabollo ya leago le ikonomi le kimollo ya bohloki ka go bulela batho me>omo. Go fihlelela se, re hloka meetse. Go le bjalo, Molao wa Boset>haba wa Meetse o lemoga gore ga go bonolo go phema khuet>o go khwalithi ya meetse, go seng bjalo go ka se be le kgolo ya ikonomi le tekatekano ya leago.

Kafao mo go Temana 3, Molao o re fa dithulusi t>a semolao t>a go t>ea sepheto seo di >omago mmogo go fihlelela tekatekano gareng ga go >irelet>a le go >omi>a methopo ya meetse (bona Seswant>ho 5 le ka mo fase).



Seswantsho 5. Go >irelet>a methopo ya meetse

7.1 Go >irelet>a bophelo bja methopo ya meetse – dikgato t>e di lebi>it>wego go methopo

Dikgato t>e di lebi>it>wego go methopo di tla hlokomela khwalithi ya meetse, kelo ya meetse, diphoofolo t>eo di phelago ka methopong ya meetse, le dimela t>e di lego tikologong ya mothopo. T>ohle di swanet>e go phela ga botse gore mothopo wa meetse o >ome ka tshwanelo le go aba meetse.

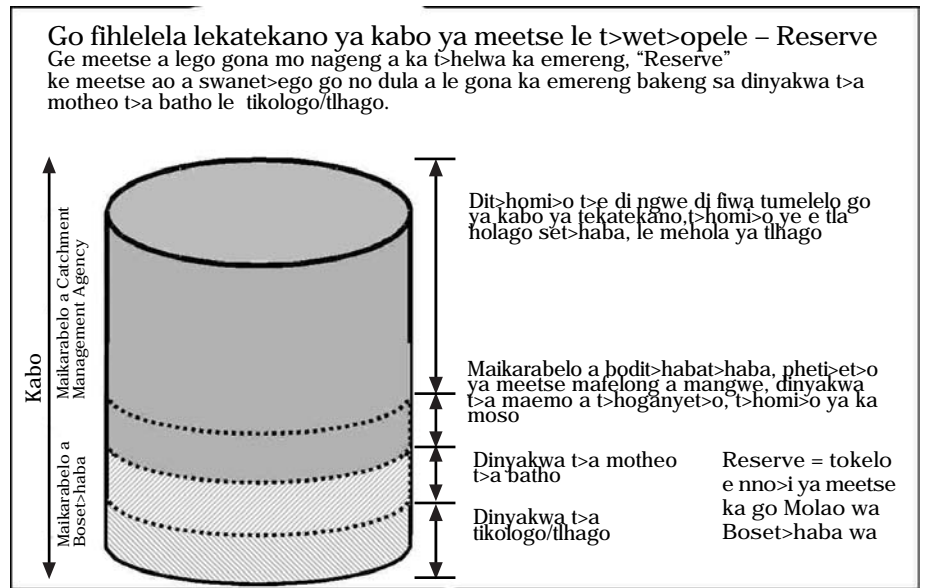
Sa mathomo, Kgoro e tla hlama lenaneo la bea methopo ya meetse ka moka mo nageng go ya maemo a yona. Maemo a mangwe le a mangwe a tla bont>ha gore ke dikhuet>o dife t>eo di goba di sa amogelegego go >irelet>a mothopo. Maemo a tla bont>ha le gore ke meetse a ma ka kaakang ao a ka >omi>wago. Maemo a taelo ao a tla lebelelwago ke:

- Tlhago, moo batho ba sa hlwago ba e ba le khuet>o e kalo go mothopo wa meetse le moo mothopo o sa lego kgauswi le seemo sa wona sa tlhago, bjalo ka meela ya thaba.
- Botse, moo mothopo o >et>ego o fetot>we ga nnyane go i>a bogareng ka lebaka la khuet>o ya batho.
- Magareng, moo mothopo wa meetse o fapanego kudu le maemo a wona a tlhago.
- Fokolago, sehlopha sa ka fase ga magareng, moo maikemi>et>o elego go kaonafat>a mothopo go ya maemo a magareng.

Sa bobedi, Kgoro e tla lekola maemo a mothopo wo mongwe le wo mongwe wo bohlokwa wa meetse mo nageng gomme, ka t>homi>ano le ba bangwe bao ba nago le seabe, gwa kwanwa ka ga seemo sa wona sa ka moso. Badiri>i ba meetse ba tla thu>a go t>ea sepheto sa gore ba nyaka go bona methopo ya bona ya meetse e e ba bjang ka moso, gore taolo ya meetse e kaonafat>e bophelo bja mothopo wa meetse ge nako e nt>e e eya. Go bewa ga methopo ya meetse go ya ka maemo a yona go tla dirwa mo mengwageng ye 10 go i>a go 15 ye tlogo, gomme go tla thongwa mafelong ao go nyakegago dikgato t>a ka pela.

Sa boraro, ge go >et>e go tswerwe sephetho sa gore go nyakwa go bona maemo a mothopo wa meetse a eba bjang ka moso, Kgoro e tla lebelela dinapo t>a khwalithi ya methopo. Dinapo t>e di tla bot>a balaodi gore go nyakega meetse a ma kaakang ka nako yeo go boloka mothopo o phela. Di tla bot>a balaodi gore khwalithi ya meetse e swanet>e go ba bjang le gore maemo a seemo sa diphofolo le dimela a swanet>e go ba bjang.

Ka yona nako yeo, Kgoro e tla seta "Reserve" ya methopo ya meetse ka moka mo nageng. "Reserve" e hlalo>wa go Seswant>ho 6. Ke fela ka morago ga gore go setwe "Reserve" gomme le meetse a beet>we ka thoko go kgotsofat>a dinyakwa t>a "Reserve", moo meetse a ka abjago bakeng sa t>homi>o ye nngwe.



Seswant>ho 6: Tlhaloso ya Reserve. Seswant>ho se gape se bont>ha ka moo Kgoro e tla abago meetse ka gona. Reserve e ka pele lenaneong la kabo ya meetse.

7.2 Go laola t>hilafat>o le t>homi>o ya methopo ya meetse go feta tekanyo – dikgato t>a taolo t>eo di lebi>it>wego go mothopo

Ga go kgonege go phema tshilafat>o ya meetse ka gohlegohle, eup>a go bohlokwa go a kgonega go laola t>hilafat>o ka tsela yeo elego gore methopo ya meetse e sa nt>e e tla >oma ka tshwanelo. Dikgato t>a taolo t>eo di lebi>it>wego go mothopo di tla laola t>hilafat>o le t>homi>o ya methopo ya meetse go feta tekanyo. Go fa mohlala, di tla laola seo se t>welelago kua mafelelong a diphaepo t>a mat>hila a diintasteri. Se se tla dirwa ka ditsela t>a go fapafapana:

- Dikgato t>e di lebi>et>wego lefelo. Diintasteri, meepo, diplante tsa tlhweki>o ya mat>hila le merero ye mengwe yeo e t>welet>ago meetse a dit>hila di tla swanela go dira kgopelo ya laesense pele di dumelelwa go t>hollela meetse a dit>hila ka gare ga mothopo wa meetse.
- Ditlwaedi t>e kaone t>a taolo. Tsona di >oma nageng ka bophara go swane le maemo a go laolo go t>hollwa ga mat>hila.
- Dikgato t>e di kgethegileg, go swana le maamo a taolo ya mafelo a bodutelo bja meetse.

7.3 Ka moo go t>ewago diphetho mabapi le taolo ya khwalithi ya meetse le t>hilafat>o

Kgoro e t>e dipheto t>a kgato ka kgato mabapi le taolo ya khwalithi ya meetse le t>hilafat>o.

Kgato ya mathomo ke thibelo ya t>hilafat>o. Modiri>i wa meetse go swana le intasteri o swanet>e go bont>ha gore e dirile t>ohle tseo di kgonegago go thibela t>welet>o ya ditlakala t>eo di ka t>hilafat>ago meetse.

Kgato ya bobedi ke go fokot>a t>hilafat>o. Ga go kgonege gore modiri>i wa meetse a pheme go t>welet>a ditlakala ka mehla. Eup>a Molao wa Boset>haba wa Meetse o hlalo>a gore meetse a dit>hila ao a t>weledit>wego a swanet>e go >omi>wa ka leswa ka moo go kgonegago, goba a hlweki>we go tlosa t>hilafalo. Kgoro gape e hlohlelet>a teknoloti ye e hlwekilego ya t>welet>o le ditlwaedi t>e botse t>a tlhokomelo.

Kgato ya boraro e ka t>ewa fela ge dikgato t>e dingwe di t>erwe go thibela goba go fokot>a t>hilafat>o, le fela ge e le gore ga go na le ditsela t>e dingwe. Go lahlwa goba go t>hollwa ga meetse a dit>hila go ka dumelelwa, eup>a ka tlase ga mabaka a rilego fela le gona ge fela e le gore noka goba moela woo meetse a dit>hila a tla t>hollelwago ka go wona o tla ba le meetse a lekanago go ka kgona go timola bogale bja meetse ao a dit>hila.

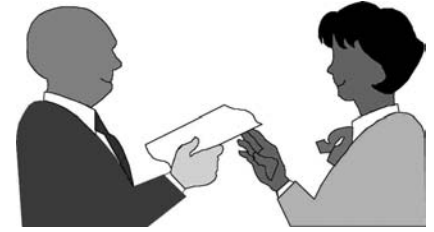
T>e dingwe t>a dikgato t>a taolo t>e di lebi>it>wego mothopo di >et>e di le gona

“General Authorisation” e fa mabaka a t>homi>o ya meetse yeo e dumelet>wego ka kakaret>o.

“General Authorisation” ya go t>ea meetse go t>wa mothopong wa meetse, go boloka meetse, dikgato t>a go fokot>a moela wa meetse le go t>holla meetse a dit>hila ka mothopong wa meetse di phatlaladit>we/gati>it>we ka 1999. Tumelelo ya Kakaret>o ya t>homi>o ye nngwe ya meetse e tla hlangwa ge go hlokega le go go kgonega. Bakeng sa go t>holla ditlakala, melawana ya kgoro ya Minimum Requirements for waste Disposal e a >oma. Bakeng sa go t>holla meetse a nago le dit>hila, go soma molawana wa “General and Special Standards” le wa “Special Standards for Phosphate”. Gape, ge go nt>hiwa dilaesense t>a t>homi>o ya meetse (bona karolo 8.1 ya sengwalwa se), laesense ye nngwe le ye nngwe beelwa mabaka a yona. Mabaka a gape a tla hlalo>a ditaolo t>e di lebi>it>wego go mothopo.

8. NAA BADIRI<I BA MEETSE BA TLA AMOGELA TUMELELO YA GO >OMI<A MEETSE BJANG?

Badiri>i ba bagolo ba meetse ke bona gape ba nago le kotsi e kgolo ya go ka ba le khuet>o e mpe go methopo ya meetse. Bona ba akaret>a temo, meepo, intasteri, mafelo a ditoropong le mafelo a bodulo.



Go ya ka Temana 4 ya Molao, t>homi>o ya meetse ka moka e swanet>e “go fiwa tumelelo”. Ka mant>u a mangwe, batho ba swanet>e go hwet>a tumelelo ya go >omi>a meetse. Go swanet>e go ba melao ya go >omi>a meetse ka bohlae (bona Seswant>ho 7)

Go na le ditsela tse mmalwa t>a go fapafapana t>eo motho a ka fiwago tumelelo ya go >omi>a meetse ke Kgoro. Batho bao ba >omi>ago kelo e nnyane ya meetse ka magaeng, go no>et>a dirapama le diruiwa (esego mo merorong ya kgwebo), go lota le go >omi>a meetse a pula go t>wa hlakeng, ba >et>e ba na le tokelo ya go >omi>a meetse. Molao wa Boset>haba wa Meetse ba bit>a badiri>i ba “Schedule 1”.

Kelo ye kgolo ya meetse, goba t>homi>o ya meetse yeo e ka bago le khuet>o e mpe go mothopo wa meetse go swana le intasteri yeo e t>hollelago meetse a dit>hila ka mothopong wa meetse, e swanet>e go hwet>a tumelelo. Se se ka dirwa ka ditsela t>e tharo:

- Tumelelo ya Kakaret>o, moo modiri>i a ka >omi>ago meetse ntle le laesense ge le gore t>homi>o ya meetse e ka tlase ga Tumelelo ya Kakaret>o.
- T>wet>opele ya t>homi>o ya bjale ya semolao ya meetse ka tlase ga molao ofe goba ofe gareng ga di 1 October 1996 le di 31 September 1998, go fihlela ge badiri>i ba bjalo ba fiwa dilaesense.
- Dilaesense (bona ka mo fase)

Badiri>i ba meetse bao ba filwego tumelelo ba tla kgona go somi>a meetse, eup>a gape ba tla rwala le maikarabelo a go somisa meetse go ya ka mabaka a tumelelo. Mabaka a a tla >irelet>a tikologo le go lemoga dinyakwa t>a badiri>i ba bangwe ba meetse.

Tumelelo ya go >omi>a meetse

Tumelelo ya go >omi>a meetse ke ye nngwe ya dithulusi t>eo di tla re thu>ago go >omi>a meetse ka bohlae, ka go >omi>a le go >irelet>a methopo ya meetse sammalettee.

Go nolofat>a polelo: motho o tla kgona fela go >omi>a meetse ge a filwe tumelelo go ya Molao wa Boset>haba wa Meetse. Se se direga fela ka morago ga gore meetse a Reserve a beelwe ka thoko, bakeng sa maikarabelo a rena a bodit>habat>haba le tshomi>o ya merero ye e rilego go swana le meetse a go fehla mohlagase le pheti>et>o ya meetse (bona Seswant>ho 6 seo se hlalo>ago Reserve).

8.1 LAESENSE

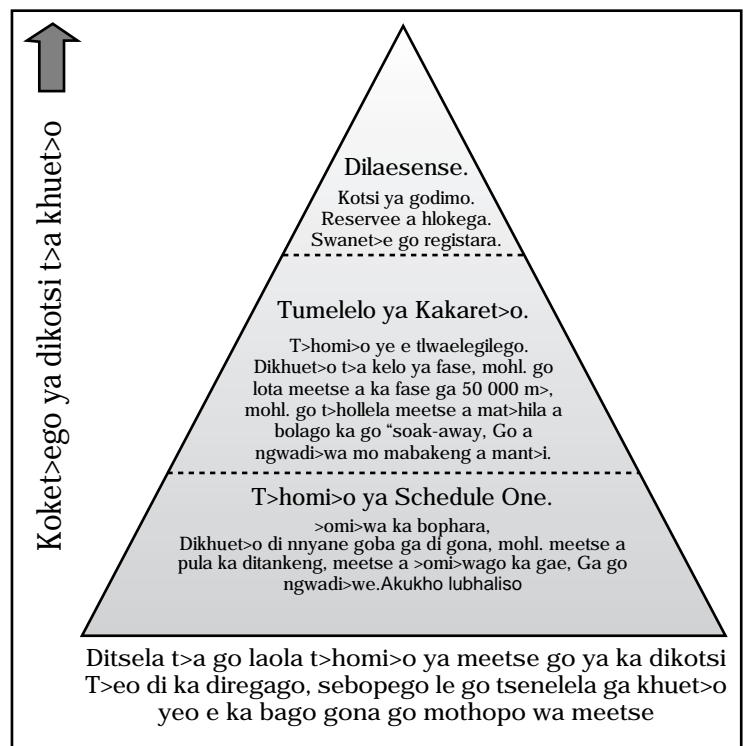
Laesense ya t>homi>o ya meetse ke sengwalwa sa semolao. E fa motho tumelelo ya go >omi>a meetse go ya ka mabaka ao a beet>wego laesense.

Mabaka a swanet>e go sekasekwa leswa bonnyane mengwaga ye mengwe le ye mengwe ye mehlano. Laesense e ka gagaba go dihla mengwaga ye 40.

Dintlha t>e bohlokwa t>eo o swanet>ego go di tseba ka ga dilaesense

- Kgoro e ka gogela laesense morago ge modiri>i a tshela mabaka ao a beet>wego laesense.
- Diphetogo go mabaka a laesense ya motho di ka dirwa fela ge mabaka a dilaesense t>e dingwe ka moka tsa t>homi>o ye e swanago ya meetse goba go t>wa go motho o tee wa meetse le wona a fetolwa.
- Paka/Nako ya laesense e ka se fetolwe eup>a e ka katolo>wa goba ya sekasekwa leswa, ka mengwaga ye e e sa fetego mehlano.

Go na le lenaneo le >omi>wago bjale la go dira kgopelo le go sekaseka laesense ye nngwe le ye nngwe, eup>a le tla rukaganywa leswa mo mengwageng ye mebedi ye e latelago.

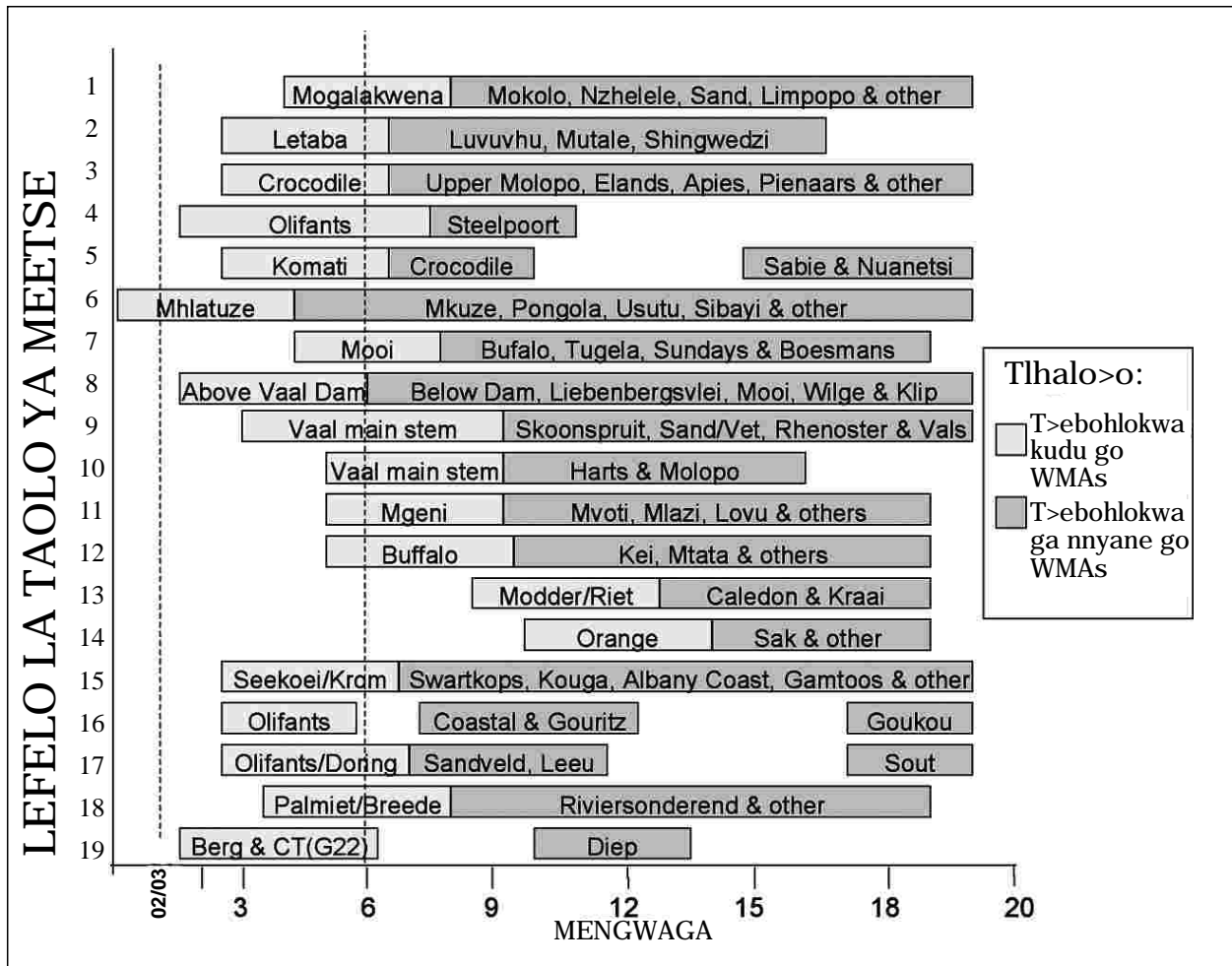


Seswant>ho 7. Molao wa Boset>haba wa Meetse o hlalosa melawana ye e swanet>ego go latelwa go >omi>a meetse ka bohlae. Melawana ye e re moo go nago le kotsi e kgolo ya khuet>o e mpe go mothopo wa meetse, melawana ye e beilwego ya t>homi>o ya meetse e tla thatafa le go feta.

8.2 Dilaesense t>a kgapelet>o

Kgoro e tla ipilet>a gore go be le laesense ya kgapelet>o ya t>homi>o ya meetse mafelong ao go ka bago go se na meetse a lekanago a badiri>i ka moka, goba moo khwalithi ya meetse e >et>ego e thomile go fokola. Mo mafelong a bjalo, badiri>i ba bjale le ba baswa ba meetse ntle le Schedule 1e badiri>i ba ka fase ga Tumelelo ya Kakaret>o, ba tla swanelwa ke go dira dikgopelo t>a dilaesense.

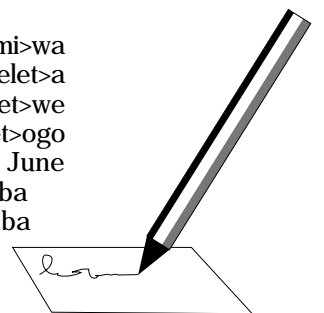
Lenaneo la go sekeseka dikgopelo t>a dilaesense le tla netefat>a gore bohle ba fiwa sedi ya go fihlelela meetse ka go lekana le gore meetse a abja ka tsela ya maleba yeo e holago bohle, go lebelet>we mabaka a rilego.



Seswant>ho 8. Schedule (lenaneo) la laesense ya kgapelet>o Mafelong a Taolo ya Meetse a go fapafapana.

8.3 Ngwadi>o ya t>homi>o ya meetse

Kgoro e nyaka go tseba gore meetse a methopo ya go fapafapana a >omi>wa bjang le gore go >omi>wa a ma kaakang. Ka tshedimo>o ye, kgoro e ka beakanya ka tshwanelo, ya hlama, ya laola le go >irelet>a methopo ya meetse gammogo le badiri>i. Ka lona lebaka le, badiri>i ba meetse ba >et>e ba kgopet>we go ngwadi>a t>homi>o ya bona ya meetse ge e le gore ba a tsea le go a lota, goba ba baka phoket>ogo ya moelo wa meetse (dikgwa t>a kgwebo). Lenaneo la semmu>o la go ngwadi>o ye le fedile ka June 2001 gomme bont>i bja badiri>i ba meetse ba >et>e ba ngwadi>it>e. Badiri>i bao ba sa hlwago ba ngwadi>a ba nt>e ba ka dira kgopelo ya go ingwadi>a ka morago ga nako. Badiri>i ba bangwe ba meetse ba tla ngwadi>wa ge nako e nt>e e eya.



You do have to register your water use if:

- o modiri i wa Schedule 1 (ka mant u a mangwe, ge o omi a meetse fela bakeng sa merero ya ka gae goba me ongwana ye mengwe ye mennyane)
- o hwet a kabo ya gago ya meetse go mmasepala wa selegae, Boto ya Meetse goba Moabi yo mongwe wa Ditirelo t a Meetse (ditheo t e ka botsona di tla ingwadi a)
- t homi o ya gago ya meetse e dumelet we ka tlase ga Tumelelo ya Kakaret o gomme boingwadi o ga bja akaret wa
- o filwe laesense (difomo t a go ingwadi et a laesense, di et e di na le tshedimo o ya maleba ka moka ya go ingwadi a); le
- o leloko la Mokgatlo wa Badiri i ba Meetse.

9. GO KGOTSOFAT A DINYAKWA T A MEETSE

Ge dinyakwa t a meetse di dut e di golela pele, re tla swanela ke go fihlelela tekatekano gareng ga go dinyakwa le meetse ao a lego gona. Re tla swanelwa ke go rulaganyo maano a go fapafapana, lengwe le lengwe ka ditshenyegelo, nako le matsapa a fapanego. Wona a akaret a:

- Taolo ya nyakego ya meetse le toto (bona ka mo fase).
- Taolo le toto ya mothopo wa meetse a ka godimo ga mabu.
- Tlhabollo ya methopo ya ka godimo ga mabu, go swana le go aga matamo.
- Phedi o ya mehlare e ele ya metsenyeta, go swana le Working for Water Programme, go oket a meetse a bodutelo bja noka.
- Go omi wa leswa ga meetse, go swana le ge intasteri e omi a meetse a yona a dit hila gape.
- Kabo-leswa ya meetse, go swana le ge batho ba omi ago meetse a mant i ba t eelwa a mangwe a meetse a bona gore a abelwa bao ba se nago meetse a lekanego.
- Phetiset o ya meetse go t wa mafelong a nago le meetse a mant i go ya mafelong ao a nago le tlhaelelo ya meetse.
- Taolo ya khwalithi ya meetse le taolo ya t hilafat o, bja'ka ge go hlalotswa go Karolo 7.3
- Go kgotsofat a dinyakwa t a Reserve bja'ka ge go hlalotswa go karolo 7.10

9.1 Taolo ya toto le nyakego ya meetse

Mo nakong ye e fetilego, Kgoro e be e fetisetse meetse go t wa mafelong ao a nago le meetse a mant i go ya moo go nago le tlhaelelo, goba e aga matamo a magolo goba e dumelela kago ya matamo go netefat a gore go ba le meetse a lekanego go kgotsofat a dinyakwa t a badiri i ba meetse. Le ge go le bjalo, le mekgwa ye ga se ya lekana. Lebaka ke gore go thomile ego ya t homi o ya meetse diinstastering, temong, meepong le mererong ye mengwe.

Leano la Boset haba la Taolo ya Meetse le re fa mokgwa o moswa, woo o bit wago "water conservation and demand management". Batho ba bant i ba ka omi a meetse a manyane ka go fetola mekgwa ya bona ya bophelo le ka go seket a meetse. Re tla kgona go fihlelela se ka mokgwa wo o latelago:

- ditheo t a meetse go swana le mebu o ya selegae yeo e abelago batho meetse e swanet e go dira se ka bokgoni, gore go be le tahlegelo e nnyane ya meetse (mohlala, ka go netefat a gore diphaephe t a go sepet a meetse ga di dutle) ebile di swanet e go hlohlelet a badiri i gore ba seket e meetse.
- Badiri i ba meetse ka moka ba swanet e go omi a meetse ka tshwanelo ntle le go a senya. Mohlala, ba tswalele dithepe ga botse, ba loki e diphaephe t eo di dutlago, ba omi e fela meetse a kelo yeo ba e hlokago.
- Tshaket o ya meetse e swanet e go ba karolo ya thulaganyo ya methopo ya meetse le ditirelo t a meetse.

Kgoro e tla ba le masolo a go lemo a set haba nyakego ya go seket a/lota meetse, go omi a thuto ya dikolong le go hlohlelet a ditheo t a meetse go seket a le go hlohlelet a moya wa go seket a meetse. Lekala le lengwe le le lengwe, bja'ka temo, intasteri, go fehla mohlagase le meepo le tla hlama maano a lona a go a tshaket o ya meetse le taolo ya nyakego ya meetse. Kgoro gape e ka omi a mabaka a laesense ya meetse go bea dinyakwa t a tshaket o/toto ya meetse.

Go na le mehola e ment i ya lenaneo la toto le taolo ya meetse.

Badiri i ba tla lemoga gore meetse ke mothopo wa go hlokwa.

Go tla ba le meetse a mant i bakeng sa badiri i ba bangwe.

Nyakego ya go lefela metheo e meswa e ka emi wa ga nnyane, kafao go tla ba le ditlhatlo o t e mmalwa t a ditshenyegelo t a meetse.

10. THEKO YA MEETSE LE THU O YA MA ELENG



10.1 Ke ka lebaka la eng taolo ya meetse e lefi wa?

Ge bont i bja badiri i ba meetse ba nyaka meetse, le ditlhohlo t a go laola methopo ya meetse di a oket ega. Kafao, ditshenyegelo t a go hlapet a le go laola, go nyaki i a le go beakanya, go rulaganya le go aga matamo a maswa, go laola le go hlokomela marangrang a kabo ya meetse, t hirelet o ya methopo ya meetse, le merero ye mengwe ya taolo, di a oket ega.

Ke ka lona lebaka le, Molao wa Boset haba wa Meetse o nago le "Pricing Strategy for Water Use Charges" (Temana 5 ya Molao). Morago ga dipoledi ano t e di nabilego, Leano le ile la phatlalat wa/gati wa ka November 1999 (Tsebi o ya Mmu o No. 1353). Leano le hlalosa gore t e dingwe t a ditshenyegelo t a taolo ya meetse di swanet e go t wa go badiri i ba meetse.

Badiri i ba meetse ba omi a meetse go ikhola, gomme ba tla lefi wa ka moso.

Ditefelo t a ditshenyegelo t a taolo ya methopo ya meetse di thomile ka 2002.

10.2 Naa badiri i ba tla lefi wa ditshenyegelo dife t a taolo ya meetse?

Go na le magoro a mararo a ditfefelo. Wona ke:

Tefelo ya taolo ya mothopo wa meetse. Yona e akaret a merero ya taolo go swana le taolo ya t homi o ya meetse, taolo ya khwalithi ya meetse, taolo ya polokego ya letamo le toto ya meetse (go akaret wa lenaneo la Working for Water la go laola dihlahare di ele tsa metsenyet a).

Tefelo ya tlhabollo ya mothopo wa meetse le t homi o ya “water works”. Ditshenyegelo t a se mo mengwageng ye 25 ye e latelago di ka fihla go R12 billion, gammogo le t helete ye e lekanyet wago go R530 million ka ngwaga bakeng sa ditshenyegelo t e dingwe go swana le go bu et a sekeng le go loki a marangrang a bjale.

T helete ye e tla lefela merero ya go swana le thulaganyo, tlhamo, tlhabollo, tlhokomelo le kaonafat o ya dikema t a Mmu o t a meetse t eo di tla thekgwago ka ma eleng ke ditheo t a taolo ya meetse. Ditshenyegelo ka botlalo t a tshepidi o le tlhokomelo di tla tsenyelet wa gomme di tla lefelwa ke badiri i ka moka, go akaret wa le lefapha la temo. “Depreciation charge” ya badiri i ka moka e tla tsenyelet wa ga nnyane ga nnyane. Mekgatlo ya ditirelo t a meetse, diintasteri, meepo le makala a enetsi a tla lefi wa seo se bit wago “Return of asset charge”.

Ditfefelo t a go lahlwa ga mat hila/ditlakala. Tefelo ye e tla tsenywa tiri ong mo nakong ye e tlogo go ya ka motheo wa “mot hilafat i o a lefa” (polluter pays principle). O tla tsebagat a mehola le dikotlo (incentives & disincentives) go:

- netefat a gore ditshenyegelo t a t hilafat o, moo go kgonegago, e ba maikarabaleo a mot hilafat i esego badiri i ba bangwe ba meetse bao ba ka bago kotsing ka lebaka la dikhuo t e mpe t a mat hila/matlakala go methopo ya meetse;
- hlohlelet a phokot o tswalet o ya mat hila/matlakala; le
- go hlohlelet a t homi o ye botse ya meetse

10.3 Ke mang yoo a swanet ego go lefa le yoo a sa swanelago go lefela ditshenyegelo t a taolo ya mothopo wa meetse?

Ga wa SWANELA go lefa ditshenyegelo t e ge o le modiri i wa Schedule 1, elego batho bao ba omi ago meetse go t wa mothopong thwii bakeng merero ye e rilego ya ka gae, go swana le go no et a dirapana le meetse a diruiwa (esego merero ya kgwebo) le go lota gammogo le go omi a meetse a pula go t wa hlakeng.



Badiri i ba meetse ao a t wago go moabi wa ditirelo t a meetse, goba yoo a t hollelago meetse a dit hila ka go lenaneo la kelelat hila leo le laolwago ke batho goba bommasepala bao ba dumelet wego go hlweki a goba go t holla meetse a a dit hila, ba ka se lefe Kgoro thwii. Le ge go le bjalo, ba sa nt e ba tla swanela ke go lefa mokgatlo woo o abago meetse goba woo o laolago lefelo la go hlweki a meetse.

Badiri i ba ba latelago ba tla SWANELA go lefe ditshenyegelo t a taolo ya mothopo wa meetse:

- Badiri i ba meetse bao ba hwet ago thwii go t wa mothopong wa go swana le noka goba meetse ka fase ga mabu.
- Beng ba dikgwa t a kgwebo, bakeng sa kelo ya meetse ao diplantasi di fokot ago meetse ao a bego a swanet e go elela ka meeleng le dinokeng.



10.4 Ke mang a tla beago ditfefelo, le gona bjang?

Ditshenyegelo t a taolo ya meetse di fapana go ya ka mafelo, go ya ka mabaka a selegae. Di-Catchment Management Agency (bona karolo 11) t a le lengwe le lengwe la Mafelo a 19 a Taolo ya Meetse di tla rwala maikarabelo a go bea ditfefelo t a taolo ya meetse le ditfefelo t a go t hollela mat hila goba meetse a nago le mat hila ka gare ga methopo ya meetse. Ditfefelo t a tshomi o ya meetse le mat hila di tla fapana go ya ka Mafelo a Taolo Metse, ebile di ka fapana go ya ka go fapana ga makala (mohl. temo, intasteri, kagodikgwa) go ya ka dinyakwa le mabaka a selegae.

10.5 Thu o ya ma eleng

Badiri i ba meetse ba tla fiwa thu o ya maseleng ka ditsela t e pedi. Kgoro e tla “subsidaesa” ditfefelo ka moka t a meetse ao dikema t a meetse t a Mmuso di a abelago balemi ba baswa ba nosetso nako ya mengwaga ye mehllano go tloga mola nosetso e thomago.

Go na le di-subsidy tsa ditshenyegelo tsa go thea kgwebo (capital cost subsidies) go balemi ba baswa bao elego maloko a Mekgatlo ya Badiri i ba Meetse, bakeng sa kago goba tlhokomelo ya marangrang a meetse a omi wago ke batho ba bant i (communal waterworks). Di-subsidy t a tshepet o (operational subsidies) di tla ba gona ngwageng wa mathomo go Mekgatlo ya Badiri i ba Meetse yeo e t eao taolo le thokomelo ya dikema t a meetse t a Mmu o.

11. DITHEO (DI-INTITUSENE) T A TAOLO YA MEETSE

The idea behind Water Management Institutions is that water users and people who are affected by how the water is allocated should have more of a say in how water resources are managed in their area.

Le ge Tona ye Merero ya Meetse le Kagodikgwa e le mohlakomedi wa set haba wa methopo ya meetse legatong la mmu o gomme a bile a na le maikarabelo a kakaret o a merero ka moka ya taolo ya meetse, mafelelong maikarabelo le maatla a taolo ya meetse a tla ba lebeleng (maamong) a selegae.

Go fihlelela seo, mo go Temana 7, 8, 9 le 10 Molao o re fa ditheo t a go fapafapana t a taolo ya meetse, se sengwe le se sengwe ka me omo ya sona.

Nepo ka Ditheo t a Taolo ya Meetse ke gore badiri i ba meetse le batho bao ba angwago ke tsela yeo meetse a abjago ka gona ba swanet e go ba le seabe ka moo methopo ya meetse e laolwago tikologong ya gabo bona.

Mo lebakeng le, Kgoro e rwele maikarabelo a go laola merero ka moka ya Molao legatong la Tona. Tema ya Kgoro e tla fetoga ge ditheo t a taolo ya meetse di hlamilwe le go fiwa maikarabelo le maatla a taolo ya methopo ya meetse. Mafelelong tema ya Kgoro e tla ba go fana ka pholisi ya boset haba le lenaneo la taolo ya methopo le go netefat a gore ditheo t e dingwe di oma ka tshwanelo.

11.1 Di-Catchment Management Agency (CMA)

Bja'ka ge go bont hit we mmepeng wa Seswant ho 3, Afrika Borwa e arot we ka Mafelo a 19 a Taolo ya Meetse. Di-Catchment Management Agency (CMAs) di tla etsana le go go taolo ya methopo ya meetse lefelong le lengwe le lengwe. Di-CMA gape di tla kgokgaganya merero ya badiri i ba meetse le ditheo t e dingwe t a taolo ya meetse mefelong a gabo t ona. Molao o nyaka gore di-CMA di hlame maano a taolo ya bodutelo bja meetse a mafelo a t ona.

Di-CMA di tla thewa semmu o ka lenaneo leo le akaret ago set haba. Lenaneo le set e le thomile go bont i bja Mafelo a Taolo ya Meetse a 19. Di-CMA di ka thewa ka matsapa a Tona goba ka gobane sehlopha sa batho se i it e t hi inyo ye e amago set haba ka botlalo go Tona. T hi inyo e swanet e go akaret a, go no fa mohlala, dintlha t a bogomo bja mellwane ya CMA, tilhaloso ya methopo ya meetse, metheo ya bjale le ba omi i ba meetse ba moo tikologong, le ditsela t eo ba tla laolwago ka gona le ka moo CMA ye e sisinywago e tla itefelago ka gona. CMA e tla thoma go oma ge Tona e fet a go kgetha Boto ya Taolo. Maloko a Boto ya Taolo a digelwa ke Komiti-Kelet i yeo maloko a yona a kgethwago ke badiri i ba meetse ba moo lefelong la bodutelo bja meetse.

11.2 Mekgatlo ya Badiri i ba Meetse

Mekgatlo ya Badiri i ba Meetse ke dihlopha t a badiri i ba meetse bao ba kganyogago go tsenela merero ye e amanago le meetse maamong a selegae gore ba holege ka moka, bja'ka temo ya no et o goba go laola khwalithi ya meetse. E oma go ya ka molaotheo wa semmu o woo o hlalowsago ka go pukwana yeo e hlamilwego ke Kgoro. Mekgatlo ye go lebelet we gore e kgone go ikemela la ma eleng ao a t wago go ditfelo t eo di beakant wego go ya ka leano la thulaganyo ya ditfelo t eo di lef ago ke maloko.

Diboto t a peleng t a no et o di tla fetolelwa go Mekgatlo ya Badiri i ba Meetse mo mengwageng ye mebedi ye e latelago. Ka yona nako yeo, e ka katolo a me omo ya yona le go netefat a gore mokgatlo o emela badiri i ka moka ba meetse mo ditikologong. Mekgatlo e meswa ya Badiri i ba Meetse e ka hlangwa ge go na le nyakego.

11.3 Ditheo t e dingwe taolong ya meetse

- Dikomiti-kelet i, t eo di thewago ke Tona ka maikemi et o a rilego (mohl. go digela maloko a Boto ya Taolo ya CMA).
- Diforamo, t eo di sa rulaganyet wago ka go molao eup a di bile le seabe se bohlokwa taolong ya mothopo wa meetse ka go hlohlelet a bakgathatema ba bangwe gore ba be le seabe
- Ditheo t a tilhabollo ya motheo, go swana le go aga matamo le dikema t a pheti et o ya meetse
- Ditheo t a taolo ya meetse ya bodit habat haba t eo di theilwego go laola dinoka t eo re di abelanago le dinaga t e dingwe
- Water Tribunal, elego mokgatlo wo o ikemet ego wo o filwego maatla a go theet a le go ahlola melato ya boipilet o kgahlanong le dipheho t a taolo t a, go no fa mohlala, kabo ya meetse (Temana 15 ya Molao). Water Tribunal ke setheo sa semolao. E na le seabe se bohlokwa sa go netefat a gore Mmu o o t ea dipheho t a taolo t eo di se nago bosodi. Set haba se na le tokelo ya go dira boipilet o go Tribunal ge se sa kwane le sephetho sa setheo sa taolo ya meetse mabapi le meetse.

Lemoga: Ditheo t a tireloya meetse di abela badiri i meetse le mananeo a tlhweko gomme di wela ka fase ga Molao wa Ditirelo t a Meetse wa 1997 (WSA).

12. TEKO YA KA MOO RE OMAGO BOTSE KA GONA – TLHAPET O LE TSHEDIMO O

Tlhapet o ke tekolo ya kgafet a ya khwalithi ya meetse le moela ka nokeng, letamong, mohlakeng le mothopong wa ka fase ga meetse. Tshedimo o ya tlhapet o e tsent ha ka gare ga lenaneo la tshedimo o.

Mananeo a tshedimo o a omi etswa go lota tshedimo o ya methopo ya meetse gore e kgone go omi wa le go le kwe i wa ga bonolo ke balaodi ba meetse le bao ba t eago diphetho.

Balaodi ba methopo ya meetse ba ka se kgone go t ea diphetho t a maleba ka tshedimo o ye e fo aget ego. Gape re swanet e gore kgafet akgafet a re no fela re lekola ge eba re atlega go fihlelela dinepo t a rena t a go omi a meetse ka bohlae goba aowa.

Le ge kgoro e dut e e nt e e hlapet a methopo ya meetse, temana 14 ya Molao wa Boset haba wa Meetse bjale o nyaka gore go hlangwe mananeo a semmu o a tlhapet o le mananeo a tshedimo o a merero ka moka yeo e amanago le methopo ya meetse.

Lenaneo la Boset haba la Methopo ya Meetse le tsenya tiri ong dinyakwa t e ka ditsela t e pedi: go katolo a lenaneo la tlhapet o la bjale la naga, go hlama le go hlabolla mananeo a tshedimo o.

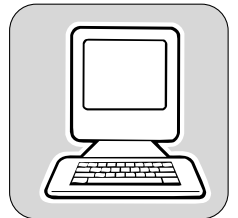
12.1 Manane a tlhapet o

Kgoro e et e e hlapet a khwalithi ya meetse mo nageng kgafet a, bakeng sa meetse a ka godimo le a ka fase ga mabu, eup a lenaneo le swanet e go katolo wa go hlapet a dintlha t e dingwe bja'ka baktheria, "radioactivity" le dilo t a mpholo. Tlhapet o e lekola ge eba badiri i ba meetse ba latela mabaka a beet wego dilaesense t a bona le go lekola ge eba khwalithi ya methopo wa meetse e sepelelana le dinepo t a khwalithi t eo beet ego mothopo. Go tla t ewa dikgato t a go sekamolla seemo, go akaret wa dikgato t a semolao moo go hlokegago.

Le ge Afrika Borwa e na le lenaneo le le botse la go hlapet a khwalithi ya meetse, re tla swanela ke go kaonafat a le go katolo a lenaneo la boset haba la tlhapet o gore le sepelelane le dinyakwa t a molao. "Biological Monitoring system" ya bjale le yona e swanet e go katolo wa.

12.2 Mananeo a tshedimo o

Mo lebakeng le Kgoro e gare e sekaseka le go fetola mananeo a yona a tshedimo o. Mehuta ya tshedimo o yeo e swanet ego go ba gona e akaret a kelelo ya meetse a ka godimo ga mabu, khwalithi ya meetse a ka godimo ga mabu, khwalithi le kelo ya meetse a ka fase ga mabu, t homi o ya meetse gammogo le go fiwa tumelelo. Mananeo a boset haba a tla hlangwa gore di-Catchment Management Agency, ge di thewa, di kgone go ba le maikarabelo a taolo ya tshedimo o mafelong a t ona a taolo ya meetse, gammogo le go fihlelela tshedimo o ya go t wa go mafelong a mabapi. Mananeo a mane a magolo a tshedimo o a Kgoro a swaragane le meetse a ka godimo ga mabu, meetse a ka fase ga mabu, khwalithi ya meetse le taolo ya ditumelelo t a t homi o ya meetse.



Tshedimo o ye elego ka gare ga mananeo a mmu o a tshedimo o e ka fihlelelwa ke set haba. Go feta moo, molao o nyaka gore motho yo mongwe le yo mongwe, ka kgopelo ya Tona, a fana ka tshedimo o ya go thu a taolong le t hirelet ong methopo ya meetse. Go ka ngwalwa melao ye e sepelelanago le ntlha ye.

13. POLOKEGO YA SET HABA

Ke maikarabelo a Kgoro go laola mafula, polokego ya matamo, komelelo le t hilafat o, go akaret wa t hilafat o yeo e ka bakago malwet i a go swana le cholera. Mafula ao a bakwago ke dipula t e di nago ka maatla goba go senyega ga matamo, komelelo le t hilafat o ya meetse yeo e bakwago ke dilo t a mpholo, baktheria le virase, a ka ba le ditlamorago t a masetlapelo.

Mo nakong ye e fetilego, naga ye e ile ka kgona go itebanya le ditiragalo t a masetlapelo ge di be le gare di direga, goba ditlamorago t a t ona. Mo nakong ye e tlogo, go tla ba le dikgato t a maleba t a taolo ya masetlapelo t e di t ewago pele ga nako go irelet a batho kgahlanong le masetlapelo a tlhago le metlapelo ao a bakwago ke ditiro t a batho, le go fokot a ditlamorago t a wona.

Leano le la go bonela dilo pele le t wa go Molao wa Boset haba wa Taolo ya Masetlapelo woo tla feti wago ke phalamente ka 2002. Molao wo o hlalosa gore naga e swanet e go dula e lokile go ka itebanya le masetlapelo. Gape o gatelela le gore re swanet e go fokot a le kgonagalo ya go direga ga masetlapelo, re fokot a go bogale bja masetlapelo ge a ka direga le go fokot a go ba kotsing ga set haba, kudukudu dit haba t e di hlokago.

Kgoro e tla ba molekane go Leano la Boset haba la Taolo ya Masetlapelo leo le tla hlangwago gomme la ikarabela go lekalo leo le et anego le merero ya meetse. Go fihlelela seo, Kgoro e etile pele go hlangwa ga atlase ye e bont hago mafelo a lego kotsing ya masetlapelo a tlhago mo nageng. E bile kgoro e nyaki i a kgonagalo ya go hlama uniti ya lekala la polokego ya set haba leo le tla set anago thwii le masetlapelo gammogo le maemo a t hoganet o ao a ka hlagago taolong ya methopo ya meetse, ditirelo t a meete le kagodikgwa.

14. NAA LEANO LA BOSET HABA LA METHOPO YA MEETSE LE TLA TSENYWA TIRI ONG NENG?

Go tsenywa tiri ong ga molao go et e go thomile, gomme go tla t welapele legato ka legato mo mengwageng ye 20 goba gona moo. Ka lebaka la bogolo le go arakana ga merero ye mengwe e ment i, lenaneo leo le ukangwago le ka no fetolwa.

Lenaneo le ka lekolwa leswa go ya ka maitemogelo a mo mengwageng ye mehlano ya First Edition National Water Strategy, le go memetlelwa morago ga ditshwaelo t a set haba, gape le tla sekasekwa leswa mo mengwageng ye mengwe le ye mengwe ye mehlano. Ditiragalo t a tsenya lenaneo tiri ong di adilwe ka mo fase.

14.1 Ditiragalo t a go laela le go hlama

Ditiragalo t a go laela le go hlama ke dinyakwa t e diswa t a Molao t eo di tla dirwago ga tee fela. Di adilwe go Table 1 le dinako t a gona.

Table 1. Dinako t a go laela le go hlama ditiragalo. T e dingwe t a t ona di et e di thomile. Dinako t eo go lebelet wego gore go tla be go fedit we le t ona di bont hit we go table.

Tiragalo	Nako yeo go lebelet wego gore go tla be go fedit we ka yona
Laesense ya kgapelet o	Gareng ga 2007 le 2020, go tla ya ka WMA*
Go thewa ga D-Catchment Management Agency	Gareng ga 2003 le 2011, go tla ya ka WAM
Kabo ya me omo ke pheti et o ya metheo go ditheo t a taolo ya meetse	Gareng ga 2005 le 2012, go tla ya ka WMA
Go thewa ga Mekgatlo e meswa ya Badiri i ba Meetse	Gareng ga 2002 le 2003, go tla ya ka WMA
Katolo o ya mananeo a tlhapet o	Gareng ga 2007 le 2012, go tla ya ka lenaneo
Tlhamo ya mananeo a tshedimo o	Gareng ga 2002 le 2007, go tla ya ka lenaneo

* WMA – Water management Area (bona Seswant ho sa pejana sa 3)

14.2 Go hlangwa ga motheo wa go bonagala (physical infrastructure)

Kgoro e nyaki i it e nyakego ya kago ya matamo a mmalwa le, moo go kgonegago, metheo ya go swana le di-pumping station, di-pipeline le dikanala, go kgotsofat a dinyakwa t a ka moso t a meetse (bona Table 2). Palomoka ya ditshenyegelo t a dikema t e ke nyakile go fihla go R12 billion mo mengwageng ye 25. T ona di akaret a pheti et o ya meetse a tlalet o ka lenaneong la noka ya Vaal, le tikologo ya Richards Bay, bakeng sa dinyakwa le ditlhabollo t e diswa t eo di ka bago gona.

Table 2. Ditlhabollo t e ka bago gona ka moso t e kgolo t a methopo ya meetse.

Leina la Letamo / Sekema	Noka	Mo omo	Nako ya ka pela yeo go ka fet wago ka yona
Tzaneen Dam raising le Nwamitwa Dam	Letaba	No et o, ka gae	2007
Embiane Dam	Black Mofoloji	No et o, ka gae	2009
Violsdrif Dam	Orange	No et o, t homi o ye e kaonafadit wego ya Orange River System	2012
Clanwilliam Dam raising	Olifants	No et o	2009
Melkboom Dam	Doring	No et o	2011
Flag Boshielo Dam raising	Olifants	Meepo, ditoropong, diintastering ka Olifants le Limpopo WMAs	2005
Rooipoort Dam	Olifants	Meepo, ka gae (ditoropong le magaeg)	2010
De Hoop Dam	Steelpoort	Meepo, ka gae	2008
Mountain View Dam	Kaap	Ka gae, no et o	2012
Boekenhoutrand	Komati	Go fehla mohlagase, noset o	2012
Springrove Dam le aqueduct	Mooi	Pheti et o go ya Umgeni system. Ditoropong, diintastering	2010
Klip River Dam	Klip River	Ditoropong, diintasteri, go fehla mohlagase	2009
Isithundu Dam	Mvoti	Merero e ment i	2008
Grobelaars Dam	Grobelaars	Ditoropong, diintastering	2010
Berg Water Project	Berg	Ditoropong, diintastering	2008

14.3 Tlhamo ya dikwano t a bodit habat haba t a kabelano ya meetse

Afrika Borwa e abelana di-river basin t e nne t e kgolo le dinaga-mabapi t e tshela:

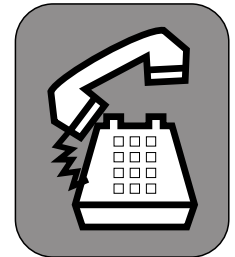
- E abelaba Orange-Senqu system le Lesotho le Namibia.
- E abelana Noka ya Limpopo le Botswana, Zimbabwe le Mozambiki.
- E abelana Incomati system le Swaziland le Mozambiki.
- E abelana Usutu/Pongola-Maputo le Mozambiki le Swaziland.

Ka 2010, Kgoro e akanya gore e tla be e rumile di-basin study tsa mohlakanelwa le dinaga tse dingwe le go ba e fihleletse dikwano go thea ditheo tsa boditshabatshaba tsa taolo ya meetse go laola di-basin.

15. DITSHWAELO T A LENA DI BOHLOKWA

Re ka se kgone go fihlelela pono ya rena ya taolo ya maleba ya methopo ya meetse ka let atsi le tee – Leano la Bosetshaba la Meetse le bont ha tsela yeo re tla e latelago mo mengwageng ye 20 go i a go ye 25 ye e tlogo. Legato ka legato mo nakong ye telele, re tla tsenya tiri ong, dintlha tsa motheo tsa pono ya rena.

Go t wa go Ma-Afrika Borwa ka moka, bao ba omago mmu ong, bao ba lego ditheong t a taolo ya meetse gammogo le badiri i ba meetse ka moka, go kgatha tema maitapi ong a boset haba. Kafao ditshwaelo t a gago go Leano le le akanywago di bohlokwa.



Dikopano t a theri ano le set haba

Re go hlohlelet a gore o kgathe tema go e tee goba t e mmalwa t a dikopano t e di bont hit wego ka mo fase.

Dikopano t e di tla fa bao ba nago seabe tshedimo o ye nngwe ka ga dikagare t a Leano la Boset haba la Methopo ya Meetse, maemo a bjale le a ka moso a meetse go di-Water Management Area (WMAs). Dikopanonong t e ka moka, bao ba nago le seabe ba tla tsewet a dintlha t eo di sa ba feti ego botse le/goba go swaela.

Kopano ye nngwe le ye nngwe ya go reri ana le set haba e tla ba le seo se bit wago “open house component” moo ba omi ba Kgoro ba tla omi ago diswant ho go go hlalosa le go nolofat a merero ya setegniki ya Leano ka leleme la selegae. Ge wena le bagwera/ba omi-ka-wena le nyaka go tsenela ye nngwe ya dikopano t e, hle tlat ang fomo ye e tsent wego gomme le e bu etse Ofising ya Theri ano le Set haba.

Table3. Lenaneo la Dikopano t a WMA t a Theri ano le Set haba

WMA NO	WMA	T AT IKGWEDI	LEFELO
1	Limpopo	29 October 2002	Polokwane
2	Luvubu/Letaba	30 October 2002	Thohoyandou
3		17 September 2002	Midrand
	Crocodile (West) Marico	18 September 2002	Rustenburg
4	Olifants	1 October 2002	Witbank
5	Mpumalanga	3 October 2002	Nelspruit
6	Usutu to Mhlatuze	19 November 2002 20 November 2002	Richards Bay Vryheid
7	Thukela	16 October 2002	Ladysmith
8	Upper Vaal	19 September 2002 20 September 2002	Vereeniging Carletonville
9	Middle Vaal	8 October 2002	Welkom
10	Lower Vaal	29 October 2002	Kimberley
11	Mvoti to Umzimkulu	15 October 2002	Pietermaritzburg
12	Mzimvubu to Keiskamma	26 September 2002 27 September 2002	East London Umtata
13	Upper Orange	10 October 2002	Bloemfontein
14	Lower Orange	31 October 2002 7 November 2002	Upington Springbok
15	Fish to Tsitsikamma	22 October 2002	Port Elizabeth
16	Gouritz	24 October 2002	Oudtshoorn
17	Olifants/Doorn	13 November 2002	Clanwilliam
18	Breede	3 October 2002	Worcester
19	Berg	2 October 2002	Stellenbosch

EASTERN CAPE

DWAF Area Office: Cradock
DWAF Area Office: East London
DWAF Regional Office: King Williams Town
DWAF Area Office: Port Elizabeth
DWAF Area Office: Umtata
Grahamstown Public Library

FREE STATE

City Library: Bloemfontein
DWAF Regional Office: Bloemfontein
Welkom Public Library

GAUTENG

Carletonville Library
DWAF Head Office: Pretoria
DWAF Regional Office: Pretoria
DWAF Area Office: Potchefstroom
Johannesburg Library
Germiston Library
Soweto Library

KWAZULU-NATAL

Dundee Public Library
DWAF Regional Office: Durban
Empangeni Public Library
Natal Society Library in Pietermaritzburg
Newcastle Public Library
Richards Bay Public Library

LIMPOPO

DWAF Regional Office: Polokwane
Louis Trichardt Public Library
Mussina Public Library
Phalaborwa Public Library
Thohoyandou Public Library
Tzaneen Public Library

MPUMALANGA

AWARD NGO Office (Acornhoek)
Barberton Public Library
DWAF Area Office: Groblersdal

MPUMALANGA (continued)

DWAF Regional Office: Nelspruit
DWAF Office: Tonga, Malekutu, Eerstehoek
Mvula NGO Office (Nelspruit)
Groblersdal Public Library
Mzinti Agricultural Centre
Nelspruit Public Library
Secunda Public Library
Witbank Public Library

NORTHERN CAPE

Calvinia Hantam Municipality Offices
De Aar Emthanjeni Municipality Offices
DWAF Regional Office: Kimberley
DWAF Area Office: Upington
Namaqua District Municipality Offices
Northern Cape Agricultural Union, Upington
Prieska Public Library
Springbok Public Library

NORTH-WEST

DWAF Area Office: Hartbeespoort Dam
DWAF Regional Office: Mmabatho
Groot Marico Public Library
Klerksdorp Public Library
Lichtenburg Public Library
Rustenburg Public Library
Vryburg Public Library

WESTERN CAPE

Beaufort West Public Library
DWAF Regional Office: Bellville
DWAF Area Office: Clanwilliam
DWAF Area Office: Worcester
Caledon Public Library
George Public Library
Hermanus Public Library
Lambertsbaai Public Library
Library of Parliament in Cape Town
Oudtshoorn Public Library
Witzenberg Municipality