

Amanzi Atholakala Ohlelweni loMgeni

Uhlelo loMgeni lwamanzi luyinsika noma umthombo onikezela ngamanzi kubantu abalinganisewa ku 6 million kanye nezimboni ezitholakala esifundeni saseMgungundlovu, uMasipala waseThekwini nowaseMsunduzi. Lezindawo ziyyizinda ezibalulekile zomnotho waKwaZulu-Natali.

Uhlelo loMgeni lunalamadamu alandelayo, Midmar, Albert Falls, Nagle neNanda. Kuphinde kube khona uhlelo lokuhanjisa kwamanzi esuka eMooi River aze afike edamini iSpring Grove.

Lohlelo lwaseMgeni lulodwa nje angeke lukwazi ukunikezela ngamanzi azokwanelisa zonke izidingo ezizoba khona esikhathini esizayo. Loluhlelo lunomthamo ongu 334 million m³/ngonyaka (kwakalwa eNanda Dam) ngesiqinisekiso esingu 99% sokunikezela amanzi ngonyaka.

Isigaba 2 soMooi Mgeni Transfer Scheme (okungukwakhwi kweSpring Grove Dam) kungenye yezindlela ezenzi ukwengeza izidindo zamanzi okwesikhashana. Lendlela izokwandisa amanzi azotholakala ohlelweni loMgeni ngo 60 million m³/ngonyaka. Yize kuhona lomthamo owengeziwe, angeke amanzi anelise izidindo zaseThekwini naseMgungundlovu esikhathini esizayo.

Isigaba esandulela ucwaningo esenwiwa uMnyango Wezamanzi eminyakeni eyedule, sakombisa ukuthi iprojecti yoMkhomazi yokuhambisa amanzi esuka eMfuleni uMkhomazi eya ohlelweni loMgeni, kuzoba yilonahlelo olungakwazi ukwanelisa izidindo eziqaguliwe.

Ukwandiswa kwezizinda zamanzi ukuze kumelwane nezidindo zamanzi esikhathini esizayo

Izhinlelo ezahlukahukene ezingu-8 zaqagulwa ocwaningweni olwenziwa olwedlule. Kulolucwaningo kwaphumelela izinhlelo zeSmithfield neMpemple. Lezinzhlelo zanelisa izidindo zokuthi zicubungulwe futhi kanzulu.

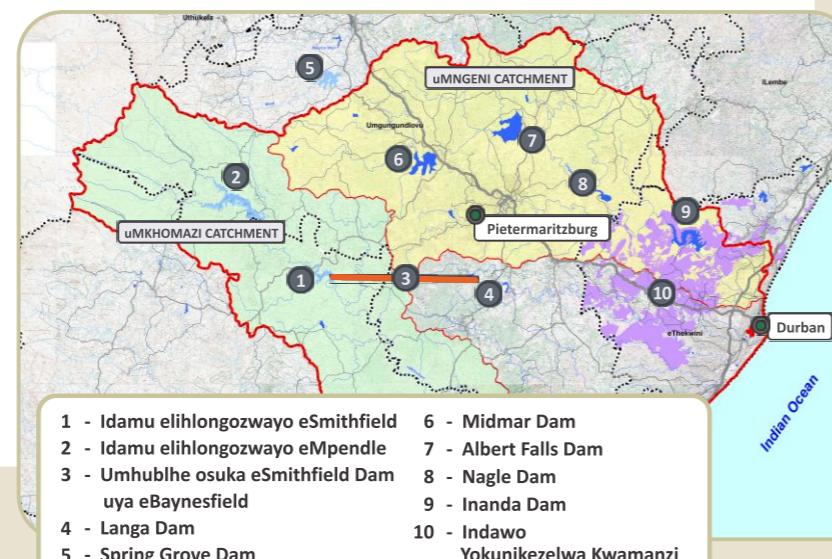
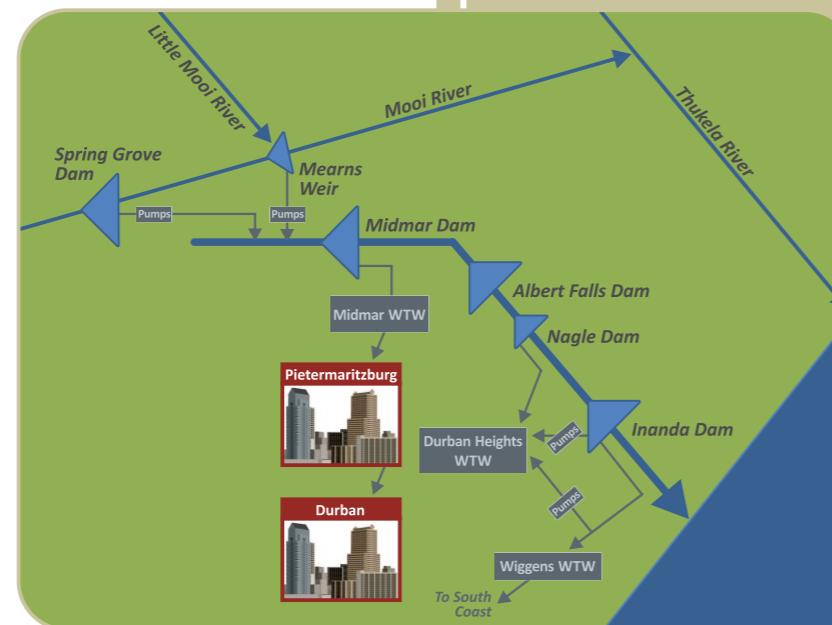
Isigaba esandulela ucwaningo, esaphothulwa ngo 1999, sanoma ukuthi idamu laseSmithfield lidlulele esigabeni esilandelayo socwaningo 'Isigaba Esinzuu Socwaningo' ngenxa yokuthi ingqalasizinda edingekayo yokuhambisa amanzi izoncika ohlelweni olukhona loMgeni. Lokhu kuchaza ukuthi kuzonciphya ubungozi bokungakwazi ukunikezela ngamanzi ezindaweni zaseThekwini naseMgungundlovu. Lokhu kwaphinde kwaveza ukuthi uma lendlela isetshenziswa izokwesekela uhlelo loMgeni.

Isidindo seDamu eSmithfield

Izinkomba zokuqala ziveza ukuthi isigaba sokuqala seProjecti yaseMkhomazi sizoba nalokhu:

- > Idamu eSmithfield e M f u l e n i uMkhomazi, el i k w a z i u k u g c i n a umthamo wamanzi ongu 251 million m³ (31% okuyinani lamanzu ngonyaka)
- > Ingqalasizinda yokuhambisa amanzi (ehlanganisa umgudu omude ohamba ngaphansi komhlaba ongu-32 km nepayipi) kanye nedamu lokugcina amanzi okwesikhashana eliseMfuleni eMbangweni
- > Indawo Yokuhlanza Amanzi endaweni yomfula uMlaas
- > Ipayipi lamanzu ahlanziwe elehlelayo elisuka esizindeni sokugcina amanzi ngezansi koUmlaa Road liya ohlelweni loMgeni Water lokusabalalisa amanzi.
- > Uma ipayipi selisuka endaweni yokugcina amanzi eMlaas Road, amanzi azosabalalisa ngokusebenzisa ipayipi elehlelayo nengqalasizinda evele ikhona ukuze afike eThekwini namaphethelo.
- > Idamu laseSmithfield liqagulwe njengedamu elizoba nomthamo wamanzi olinganisewa ku220 million m³/ngonyaka ngesiqinisekiso esiuu 99%.

Isigaba sesibili seprojecti yoMkhomazi siyokwenziva uma ngabe sekunesidindo. Lesisigaba sizoba nokwakhwi kwedamu lesibili endaweni yaseMpemple. Ledamu lizobe lisendaweni ephezulu nomfula uMkhomazi. Lelidamu laseMpemple liyokwehlisela amanzi bese egelezela edamini laseSmithfield.



Idamu elihlongozwayo eSmithfield

Ucwanningo olwensiwe lukhombisa ukuthi ukuma kwedamu eSmithfield kuzoma kanje. Ubude bedamu u81 m. Inhlobo yedamu izoba egcwaliswa ngamatsho. Ubude bedamu elisizana nelikhulu u 26 m. Umhubhe wamanzi uzoba u 3.5 m ububanzi. Idamu lokugcina amanzi okwesikhashana ngesikhathini kuhlola futhi kulungiswa umhubhe wamanzi oya endaweni yaseMfuleni uMlaas. Yonke lengqalasizinda izoba yingxene yedamu.

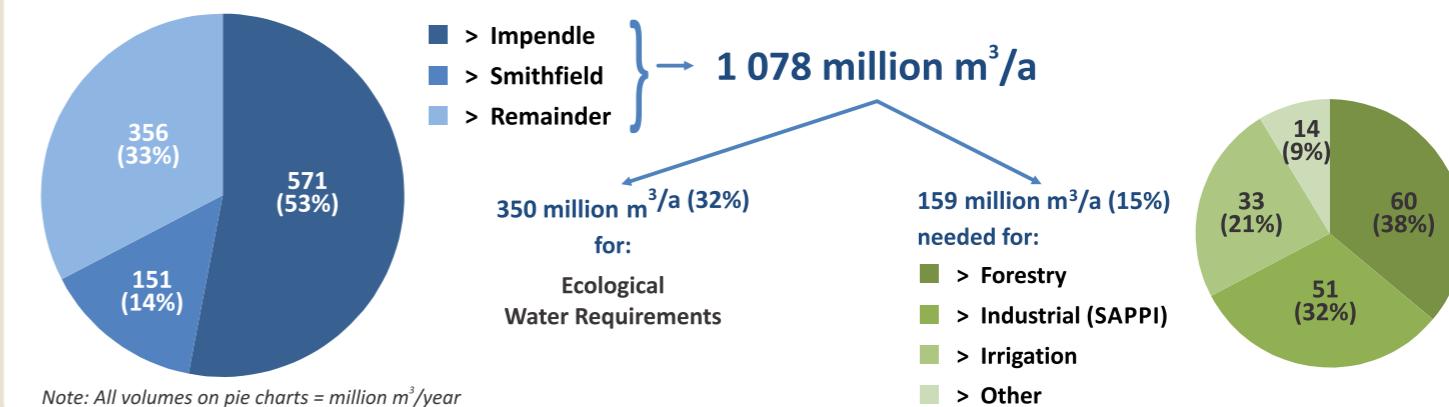


Ukusetshenziswa nokuba khona kwamanzi endaweni yaseMkhomazi

Imibiko yokugala ikhombisa ukuthi indawo yokupathwa kwamanzi eMkhomazi ikhiqiza amanzi angu 1 078 million m³ ngonyaka. U-67% walamanzi atholakala ezindaweni eziphezulu neziza zamadamu eMpendle naseSmithfield.

Indawo yokupathwa kwamanzi eMkhomazi ayinayo intuthuko enkulu, u15% kuphela wamanzi agelezayo asetshenziswayo. Lamanzi asetshenziselwa ezolimo kanye nabemboni uSAPPI-SAICCOR, oseduzane nomlomo womfula uMkhomazi edolobheni Umkomas.

Omunye u32% wamanzi ubekelwe ukuba usetshenziswe imvelo ephila emanzini ukuqinisekisa ukuthi umfula namaphethelo ugcineke ezingeni elamukelekile noma ngabe iprojecti yoMkhomazi seyiphelile.



Indlela Yokwenza Ucwanningo

Ukusiza ukuthi kube nenqubekela phambi ngokushesa, ucwaningo luye Iwahluhanisa Iwaba imikhakha emithathu. Emyne imisebenzi ezokwenziva kuleprojecti izothinta nezinye izindawo eisondelene nendawo yamanzi (izindawo eisemifulenii Umngeni kanye noMlaas).

Umkhakha 1

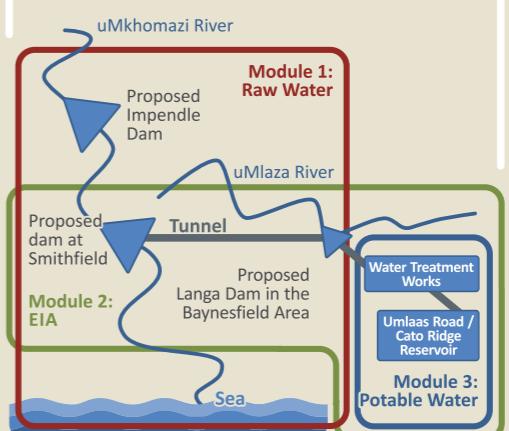
Ucwanningo Lochwepheshe: Amanzi Angahlanziwe

- > Ukucubungula ukuba khona kwedamu eSmithfield (Isigaba 1) esigabeni socwaningo olunzulu.
- > Ukucwaninga ukuba khona kwamanzi edamini Impendle (Isigaba 2) njengesizinda esisotshenziswa ukube sikhiphele amanzi eSmithfield. Ukucubungula indlela lezinhlelo ezikwenziva ngayo.
- > Ukuthuthukisa umgudu yokuhambisa amanzi phakathi kwedamu eSmithfield kanye nendawo yokuhlanza amanzi eseBaynesfield.
- > Ukucubungula nokucwaninga izizinda zamanzi zaseMkhomazi, nasezindaweni eisenzansi noMkhomazi.
- > Ukubheka idamu lokugcina amanzi okwesikhashana.
- > Ukucubungula imithelela ezoba khona empilweninasemnothweni.

Umkhakha 2

Ucwanningo Lokungenzeka Emvelweni

Ucwanningo Lokungenzeka Emvelweni ngokulandela uMthetho Wokupathwa Kwemvelo Izokwenziva kuhlanganisa noHlelo Lokubambiqhaza Komphakathi



Umkhakha 3

Ucwanningo Lochwepheshe: Amanzi Ahlanziwe

- > Ukucubungula iziza nobungako bezindza zokuhlanza nokugcina amanzi.
- > Ukuthola ulwazi maqondana nobukhulu bemigudu yama payipi phakathi kweBaynesfield noMlaas Road.
- > Ukuhlanganisa ingqalasizinda yonke kanye nezikhathini ezodingeka ngaso ngokubheka ukukhula kwezidingo zokunikezela amanzi kubasebenzisi bamanzi.
- > Ukwenza ucwaningo lokumbiwa ngaphansi komhlaba esizeni sendawo yokuhlanza kwamanzi nasezindaweni ezigudla umgudu wepayipi lamanzu.
- > Ukwenza ucwaningo lonjiniyela esizeni esihlongozwayi sokuhlanza amanzi nasezindaweni ezigudla umgudu ipayipi lamanzu. (Kuhlanganisa nokuthola ulwazi lobunikazi bomhlaba)