

**ISISHWANKATHETO SEBHUNGA:
INGXELO EYILWAYO YOVAVANYO
LWEMPEMBELELO YOKUSINGQONGILEYO**
**IProjekthi ecetywayo yoMbane owenziwe
ngeRhasi kwiZibuko laseRichards Bay,
uMasipala weNgingqi iMhlatuze,
KwaZulu-Natal**
DFFE INOMBOLO YEREFERENSI:
14/12/16/3/3/2/2007



1. Intshayelelo

I Karpowership SA (Pty) Ltd iceba ukwenza uMbane ngeRhasi kwiZibuko laseRichards Bay, kuMasipala weNgingqi iMhlatuze, kwaZulu Natal.

I-Triplo4 Sustainable Solutions iye yaqeshwa ukuba yenze uHlolo inike neNgxelo yeMpembelelo yokuSingqongileyo (S&EIR, ekwabizwa ngokuba yi-EIA) inkqubo efunwayo ngokoMthetho weSizwe woLawulo lokusiNgqongileyo we-107 we-1998, njengoko uhlonyelwe (NEMA).

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I Projekthi ecetywayo yeRhasi eyenza uMbane kwiNqanawe ephehla uMbane kwiZibuko laseRichards Bay iye yaqulunqa ukuphendula iSicelo seziPhakamiso (RFP) sobuchwephesho bokungakwazi ukwenza umbane usebenzisa iindlela ezintsha zeTekhnoloji phantsi kweNkqubo yokuFumana uMngcipheko ye-IPP (RMI4P) ekhutshwe liSebe leMithombo yeziMbiwa naMandla (DMRE) ukunciphisa ukusilela kokunqongophala kombane olukhoyo ngoku nakwixesha elizayo nolungiselelo olunyiniwego,

olungathembekanga, nolwahlulo olulambathayo lobugcisa bangoku bokuvvelisa umbane kunye nefuthe layo elibi kwezendalo nezoqoqosho.

I NKqubo eNgxamisekileyo/yokuNciphisa uMngcipheko wokuThenga ukuThengwa koMbane (2000MW): kuZwelonke" ikwachongwe njengewonga IeProjekthi eDityanisiwego yeNkqubo-qhinga (i-SIP) phantsi koMthetho woPhuhliso IweZiseko zoPhuhliso, wama-2014 yiKomishoni kaMongameli yokuLungelelanisa iziSeko ezinguNdoqo. Ii-SIP zithathwa njengeeprojekthi ezibalulekileyo kwezoqoqosho okanye kwezentlalo kuMzantsi Afrika uphela okanye ngokwengingqi nezithi ziphumeze isicwangciso sesizwe seziseko ezingundoqo kwaye ngenxa yesi sizathu, inokuphunyezwa ngokukhawuleza ngamagunya oMthetho olawulayo.

IsiCwangciso Sibonelelo eSimanyeneyo (IRP) 2019 sichonga umxube oyimfuneko wokuvelisa itekhnoloji ukuphendula isidingo sombane. Into ekhoyo kwinkqubo yokucwangcisa kukuzibophelela ekukhuseleni umbane, ukujonga iindleko kunye nokuzinza kwendalo. I-RMI4P iphumelele ekutsaleni izindululo zeeprojekthi ezibandakanya indibaniselwano yetekhnoloji eyahluka-hlukeneyo ukubonelela ngemveliso enokuthunyelwa. Ezi ziggibo ziyouzelela inkqubo yokuthengwa komthamo wombane ofunekayo. Ubume boMniki-maxabiso oKhethiwego kwi-RMI4P yanikezelwa kwiiprojekthi ezisibhozo ngomhla we-18 kuMatshi 2021 kunye nezinye iiprojekthi ezintathu ngomhla woku-1 kuJuni 2021, ezizezi:

- ACWA Power Projects DAO (iSolar PV + BESS + IJenereytha yeDizili)
- Amandla e-Oya (iSolar PV + BESS + Jenereytha yeDizili + umoya oselunxwemeni)
- Umoyilanga Energy (iSolar PV + BESS + iRhasi yePetroleum engaManzi (LPG) Jenereytha + Umoya oselunxwemeni)
- Iprojekthi ezimbini zeMulilo iyonke (iinjini zeRhasi eziphinda-phindayo + iSolar PV + iJeneyitha yeGesi) kunye (neSolar PV + BESS + IJenereyitha yeDizili + noMoya waselunxwemeni)
- Iprojekthi ezintathu zeKarpowership SA (iinjini zeRhasi ezinemo yokuSetyenziswa ezineeTurbines zeRhasi eziBamba ubushushu).
- Ezinye iiprojekthi eziNtathu eziKhethiweyo zoMniki-maxabiso ziye zongezwa ngomhla woku-1 kuJuni wama-2021 kwi-Scatec (iSolar PV + BESS).

Iprojekthi yeRhasi eyenza uMbane kusetyenziswa iNqanawe ephehla uMbane (Powership) kwiZibuko laseRichards Bay yenza inxalenye yejisombululo ezibonelelwa ngabafaki-maxabiso abakhethiweyo be-RMI4P ebonelela ngendibaniselwano yoluлу lwestekhnoloji enokuatshelwa apha ngasentla.

Irhasi, ngokwe-DMRE, ichongwe njengenye yeendlela ezifikelelekayo nezithembekileyo zombane. Kubabizi-maxabiso abakhethiweyo abali-11, ngumbizi-maxabiso om-1 kuphela obize ixabiso eliphantsi, eqinisika ukufikeleka kwerhasi kwiprojekthi yombane njengesixhobo esinakho ukuvulwa okanye sicinywe ngokwesidingo sombane.

Iprojekthi ezingama-28 zingeniswe ngezibizi-maxabiso ukuphendula i-RMI4P ngowama-22 kaDisemba 2020. Amaxabiso avavanyelwa ukuthotyelwa kweenqobo nemiqathango ze emva koko zavavanyelwa ixabiso eliphantsi kunye negalelo lophuhlis loqoqosho oluzinikeleyo. Iprojekthi yeNqanawe ephehla uMbane (Karpowership) kwiZibuko laseRichards Bay yathi emva koko yahhengezwa njengenye yeziniki-maxabiso eziyimpumelelo kwezili-11 ezibhengezwe yi-DMRE. Ubume beprojekthi ye-Karpowership, xa inikwa iwonga njengomthengi okhethiweyo we-RMI4P, yahlelwa njengeProjekthi eDityanisiweyo yeNkubo-qhinga (SIP) kwaye kufuneka ilawulwe, ithobele imiqathango njengoko ibekiwe kuMthetho woPhuhlis lweZiseko zoPhuhlis wama-23 wama-2014-iSihlomelo 7.1

2. ISICWANGCISO-NKQUBO SOLAWULO

I-NEMA iyamthintela umntu ekubeni aqalise umsebenzi odwelisiweyo ngaphandle kogunyaziso lokusingqongileyo.

IProjekthi iqalisa imisebenzi emininzi edweliswe kwiZaziso zoLuhlu lwe-EIA 1, 2 no-3 ka-2014 (njengoko zihlonyelwe) ("ukuDwelisa iZaziso"). limfuno zenkqubo zesicelo esinjalo kunye ne-EIA enxulumeneyo ekufuneka yenziwe, zimiselwe yiMimiselo ye-EIA, yowama-2014 ebhengezwe phantsi kwe-NEMA (njengoko ihlaziyiwe) ("iMimiselo ye-EIA").

Okunye, iProjekthi iqalisa umsebenzi odweliswe phantsi koLawulo lokusiNgqongileyo kweSizwe: UMthetho woMgangatho woMoya wama-39 wama-2004 (NEMAQA) ofuna ilayisenisi yokukhupha umoya (AEL). Inkqubo efanayo ye-EIA echazwe yiMimiselo ye-EIA kufuneka isetyenziswe kwisicelo se-AEL, kunye nenani leemfuno ezongezelelweyo ezichazwe kwi-NEMAQA kunye neMimiselo yayo.

IMimiselo ye-EIA, ichaza iinkqubo ezimbini zogunyaziso. Kuxhomekeke kuhlobo lomsebenzi ocetywayo, mhlawumbi uHlolo oluSisiseko okanye inkqubo yoVavanyo lweMpembelelo yokusiNgqongileyo iyafuneka ukuze ufumane uGunyaziso lokuSingqongileyo (EA).

I-Triple4 imisele ukuba iProjekthi ecetywayo yePowership eyenza uMbane ngeRhasi kwiZibuko laseRichards Bay yaqalisa imisebenzi kuDweliso lweZaziso 1-3 seMimiselo ye-EIA.

ITeyibhile 0-1: Imisebenzi edwelisiweyo

Umse-benzi	Inkcazelo eshwankathelweyo
Uluhlu lweZaziso 1	
11	<p>Uphuhliso lwezibonelelo okanye iziseko zoncedo zokuhambisa nokusasazwa kombane—</p> <p>(i) ngaphandle kweendawo zasezidolphini okanye izakhiwo zemizi-mveliso ezinomthamo ongaphezulu kwama-33 kodwa ngaphantsi kwama-275 kilovolts; okanye</p> <p>(ii) ngaphakathi kweendawo ezisezidolphini okanye kwizakhiwo zemizi-mveliso ezinomthamo wama-275 kilovolti okanye ngaphezulu.</p>

12	Uphuhliso Iweziseko ezingundoqo okanye izakhiwo ezinophawu olubonakalayo Iwe-100 le-square metres okanye ngaphezulu phakathi komlambo okanye ngaphakathi kwama-32m yomlambo.	27	Ukucocwa kommandla oyihektare enye nangaphezulu, kodwa ngaphantsi kweehektare ezingama-20 zezityalo zemveli.
Uluhlu IweZaziso 2			
15	Uphuhliso Iwezakhwi kummandla wonxweme kawonkewonke apho indawo yophuhliso ingaphezulu kwama-50 e-square metres	2	Uphuhliso nokusebenza okunxulumeneyo kwezibonelelo okanye izibonelelo zokuvvelisa umbane ukusuka kwisixhobo esingahlaziyeziyo apho umbane ophumayo uziimegawathi ezingama-20 okanye ngaphezulu.
17	Uphuhliso elwandle okanye kwichweba lechweba okanye ngaphakathi kwendawo esebezayao yomlambo; ngokumalunga neziseko zophuhliso okanye izakhiwo ezinomda wophuhliso oziimitha ezingama-50 okanye ngaphezulu.	4	Uphuhliso nokusebenza okuhambelanayo kwezibonelelo okanye iziseko zophuhliso, ukugcinwa, okanye ukugcinwa nokuphathwa kwezinto ezinobungozi.
18	Ukutyalwa kwezityalo okanye ukubekwa kwayo nayiphi na imathiriyeli kwiindunduma okanye imiphezulu yesanti eveziweyo engaphezulu kwe-10 leesquare metres, ngaphakathi kwendawo esebezayao.	6	Uphuhliso Iwezibonelelo okanye iziseko ezingundoqo zayo nayiphi na inkqubo okanye umsebenzi ofuna imvume okanye ilayisenisi okanye imvume elungisiweyo okanye ilayisenisi ngokomthetho wesizwe okanye wephondo olawula ukuveliswa okanye ukukhutshwa kwezinto ezikhutshwayo, ungciliseko okanye amanzi amdaka.
19	Ukuzaliswa okanye ukufakwa kwayo nayiphi na imathiriyeli engaphezulu kwe-10 le-cubic metres, okanye ukugrunjwa, ukususwa okanye ukushenxiswa komhlaba, isanti, amaqokobhe, oonokrwece baselwandle abophukileyo, amatye okanye amatye angaphezulu kwe-cubic metres ezili-10 ukusuka kumlambo.	7	Uphuhliso nokusebenza okunxulumeneyo kwezibonelelo okanye iziseko zothutho oluninzi lwempahla eyingozi— (i) ikwimo yerhasi, ngaphandle kwendawo yoshishino, kusetyenziswa imibhobho, edlula iimitha ezili-1 000 ubude, nomthamo wokuphuma kwamanzi ongaphezu kweetoni ezingama-700 ngosuku; (ii) Ikwimo yowlolo, ngaphandle kwendawo yoshishino, kusetyenziswa imibhobho, engaphezulu kwe-1 000 leemitha ubude, nomthamo we-mveliso ngaphezu kwe-cubic metres ezingama-50 ngosuku.
19A	Ukuzaliswa okanye ukufakwa kwayo nayiphi na imathiriyeli engaphezulu kwe-cubic metres ezi-5, okanye ukugrunjwa, ukomba, ukususwa okanye ukushenxiswa komhlaba, isanti, amaqokobhe, oonokrwece baselwandle abophukileyo, amatye okanye amatye angaphezulu kwe-cubic metres ezi-5 ukusuka— (i) kunxweme lolwandle; (ii) kummandla womlambo ovulekileyo, ichweba okanye umgama oziimitha ezili-100 emhlabeni kwindawo ebonisa ukuzala kwamanzi olwandle okanye ichweba, nokuba ngowuphi umgama omkhulu; okanye (iii) kulwandle	14	Uphuhliso kunye nokusebenza okunxulumeneyo— (ii) iqonga elimisiweyo; okanye (iii) nasiphi na esinye isakhiwo okanye iziseko ezingundoqo — phezu, ngaphantsi okanye ecaleni kwisisu solwandle.

Uluhlu IweZaziso 3 (KwaZulu Natal)

10	Uphuhliso nokusebenza okunxulumeneyo kwezibonelelo okanye isiseko sogcino, okanye ukugcinwa nokuphathwa kwempahla eyingozi, apha ugcino olunjalo lwenzeka kwizikhongozeli ezinomthamo odityanisiweyo wama-30 kodwa ongadlulanga kwi- cubic metres ezingama-80.	EIA, yamkelwa liGunyabantu eliQoqelekileyo (CA), elileli Sebe lezamaHlathi, ukuLoba nokusiNgqongileyo (DFFE), ngomhla wesi-6 kuJanuwari wama-2021.
12	Ukuocowa kommandla oziskwemitha ezingama-300 okanye ngaphezulu kwezityalo zemveli kwindawo echongiweyo ngokwejografi.	• Ingxelo yokuGqibela ye-EIA (EIAr) kunye neNxelo yeNkqubo yoLawulo lokuSingqongileyo (EMPr) zangeniswa kwi-CA ngomhla wama-26 kuTshazimpuzi wama-2021. I-CA yasikhaba isicelo se-EA yaza yanika iKSA iRekhodi yoKwaliwa (RoR) ngomhla wama-23 kuJuni wama-2021.
14	Uphuhliso lwe- (ii) iziseko ezingundoqo okanye izakhiwo ezinophawu olubonakalayo lwe-10 square metres okanye ngaphezulu; apha kwenzeka khona uphuhliso- (a) phakathi komlambo; (b) phambi kokubuyela umva kophuhliso; okanye (c) ukuba akukho kubuyiselwa umva kophuhliso olwamkelweyo, ngaphakathi kweemitha ezingama-32 zomlambo, kulinganiswe ukusuka ekupheleni komlambo.	Ngomhla we-13 kaJulayi 2021, i-KSA yabhena ukwaliwa kwe-CA. Ngomhla woku-1 ku-Agasti 2022, uGunyaziwe weZibheno (uMphathiswa) wasichitha isibheno waza wasebenzisa amagunya wakhe ngokweCandelo lama-43(6) le-NEMA. Isicelo sabuyiselwa kwi-CA, kunye nomyalelo wokujongana nezhewu ezahlukeneyo ezibonwayo kunye neziphene nge-EIA entsha ne-PPP ehambelana nayo, ukuze isicelo siqwalaselwe yi-CA. I-CA yacebisa ukuba i-EIAr ehlaziyiweyo, ejongene nezhewu ezahlukeneyo kulwazi, mayixhomekeke kwiNkqubo yokuThatha iNxaxheba koLuntu (PPP), mayingeniswe kwi-CA ukuze iphinde iqwalaselwe.

Ugunyaziso lokuSetyenziswa kwaManzi ngokweCandelo lama-21 loMthetho waManzi weSizwe wama-36 we-1998 (NWA) luyafuneka /waze /wanikezelwa liSebe lezaManzi noGutyulo ngoJulayi wama-2021.

3. Inkqubo yokusingqongileyo

IMimiselo ye-EIA ichaza indlela eneenkcukacha yenqubo ye-S&EIR, equka izigaba ezibini: iSigaba sokuHlola kunye neSigaba soVavanyo lweMpembelelo (isigaba sangoku).

Inkqubo yeNgxelo yokuHlola kunye neNgxelo yeMpembelelo yokuSingqongileyo (S&EIR) efunekayo kwi-EA, yaqhutya ngowama-2020-2021, ngokolandelewano lweziganeko apha ngezantsi:

- INgxelo yoHlolo, kubandakanya iSicwangciso soPhononongo kunye neSicwangciso sokuThatyathwa kweNxaxheba koLuntu (PP) esamkelweyo se-

- EIA, yamkelwa liGunyabantu eliQoqelekileyo (CA), elileli Sebe lezamaHlathi, ukuLoba nokusiNgqongileyo (DFFE), ngomhla wesi-6 kuJanuwari wama-2021.
- Ingxelo yokuGqibela ye-EIA (EIAr) kunye neNxelo yeNkqubo yoLawulo lokuSingqongileyo (EMPr) zangeniswa kwi-CA ngomhla wama-26 kuTshazimpuzi wama-2021. I-CA yasikhaba isicelo se-EA yaza yanika iKSA iRekhodi yoKwaliwa (RoR) ngomhla wama-23 kuJuni wama-2021.

Ngomhla we-13 kaJulayi 2021, i-KSA yabhena ukwaliwa kwe-CA. Ngomhla woku-1 ku-Agasti 2022, uGunyaziwe weZibheno (uMphathiswa) wasichitha isibheno waza wasebenzisa amagunya wakhe ngokweCandelo lama-43(6) le-NEMA. Isicelo sabuyiselwa kwi-CA, kunye nomyalelo wokujongana nezhewu ezahlukeneyo ezibonwayo kunye neziphene nge-EIA entsha ne-PPP ehambelana nayo, ukuze isicelo siqwalaselwe yi-CA.
 I-CA yacebisa ukuba i-EIAr ehlaziyiweyo, ejongene nezhewu ezahlukeneyo kulwazi, mayixhomekeke kwiNkqubo yokuThatha iNxaxheba koLuntu (PPP), mayingeniswe kwi-CA ukuze iphinde iqwalaselwe.

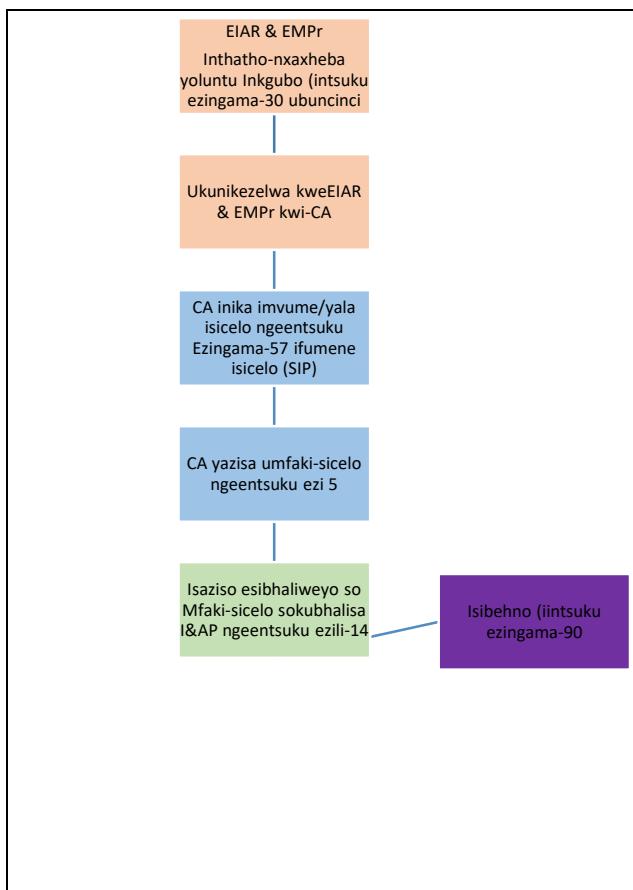
linjongo eziphambili ze-EIA zezi:

- Ukwazisa amaQela aNomdla naChaphazelekayo (I&APs) malunga neProjekthi ecetywayo kunye nenqubo ye-EIA elandelwayo;
- Ukufumana izimvo kuma-I&APs (kubandakanya abafanelekileyo kunye noluntu) kwaye uqinisekise ukuba yonke imiba, iinkxalabo kunye nemibuzo ephakanyisiweyo ibhalwe ngokupheleleyo kwaye isonjululwe kwiNgxelo ye-EIA;
- Ukuchonga nokuvavanya iimpembelelo ezibalulekileyo ezinokubakho ezinxulumene nophuhliso olucetywayo;
- Ukuqulunqa imilinganiselo yokunciphisa, ukuthintela, kunye(okanye ukunciphisa iimpembelelo kunye nokwandisa inzuzu yeProjekthi; kwaye.
- Ukuvelisa iNgxelo yokuGqibela ye-EIA eya kubonelela ngalo lonke ulwazi oluyimfuneko kwiGunyabantu elinobuchule ukwenza

isiggibo (kwaye phantsi kwaziphi iimeko sokugunyazisa iProjekthi ecetywayo.



Umfanekiso Error! No text of specified style in document.-1: **Umbono weSiza seProjekthi**



Umfanekiso Error! No text of specified style in document.-2: **Inkqubo ye- EIR**

Le Projekthi ikwiZibuko laseRichards Bay. Imi kufutshane neRichard's Bay Industrial Development Zone (RBIDZ) kuMasipala weNgingqi waseMhlatuze kwiPhondo laKwaZulu-Natal. Izibuko laseRichards Bay, elikwiWadi 2 kuMasipala weNgingqi waseMhlathuze, lelikarhulumente kwaye lilawulwa nguTransnet National Ports Authority (TNPA) ngokomsebenzi womqeshisi.

Izibuko laseRichards Bay limelene noMmandla woPhuhliso IwezoShishino laseRichards Bay (RBIDZ) – iMimandla eYodwa yoQoqosho (SEZ), eyilelwengokukodwa ukuvumela amashishini anxulumeneyo ukuba azinze kuMmandla woShishino.

iiNqanawe eziphehla uMbane (Powerships) ezicetywayo, i-FSRU, i-LNGC yethutyana kunye nombhobho werhasi, iya kufumaneka kwiZibuko laseRichards Bay phantsi kolawulo Iwe-TNPA. Ngelixa umzila wothumelo unqumla kwizakhiwo zika-Transnet kunye nezakhiwo zikaMasipala weNgingqi waseMhlatuze, kwaye isikhululo sokutshintsha esicetywayo sime kancinane kwisakhiwo se-South32 Aluminium Pty Ltd (esecaleni kwesikhululo esikhoyo saseBayside).

iiNqanawe eziphehla uMbane kunye neFSRU ziza kubekwa kumanzi akhuselweyo ngaphakathi kweZibuko laseRichards Bay. iiNqanawe eziphehla uMbane zibekwe ngaphakathi *kwe-dead-end basin* ekufuphi nasedokhsini / *kwindawo yokuthula nokukhwelisa imithwalo kwiinqanawe*.



Umfanekiso Error! No text of specified style in document.-3: **Umbono weSiza seZibuko**

4. InkcazeloyeSiza nokuSingqongileyo



Umfanekiso Error! No text of specified style in document.-4: Umbono weNdlela zoThutho

Uphuhliso Iwamashishini olupuhliswe kufutshane necandelo leZibuko aphi iprojekthi ecetywayo ikhoyo iquka umnyibilikisi omkhulu we-aluminiyam (Bayside) kwakunye nesityalo sekhemikhali sephosphorous (Foscor). Izikhululo zeBidvest zikwimida yeZibuko, eMpuma yeprojekthi ecetywayo.

Umandla wophononongo uwela phakathi kweNdawo yeZityalo ezohlukeneyo eziBalulekileyo edweliswe njengengenakubuyiselwa. I-Richards Bay Game Reserve, ekwanguMmandla weeNtaka oBalulekileyo (IBA) imi ngaphantsi kwe-1km ukuya kumzantsi-ntshona wesiza, kwaye i-Enseleni Nature Reserve ibekwe malunga ne-10km kumntla wesiza. Lilonke, umzila ocetywayo wothumelo olusemhlabeni (indlela ekhethwayo) ibekwe kwiindawo ezinovakalelo oluphantsi, ikakhulu ngenxa yendawo ekuyo kwiindawo eziguqukileyo okanye kwiindawo eziwohloke kakhulu ezimelene neendawo eziguqliwego.

UMasipala weNgingqi iMhlatuze unabemi abamalunga nama-351 531 kwaye waziwa ngokuba nabantu abakwinqanaba eliphezulu lemfundo.

5. Inkuthazo yeProjekthi

IProjekthi yeKarpowership iye yavela njengesisombululo sengxaki yokunqongophala kombane eMzantsi Afrika. Ibe yimpendulo kwibhidii ekhutshwe yiDMRE ye-RMI14P. I-RMI4P yeyokwanelisa umsantsa wobonelelo lombane Iwexeshana, ukuthomalalisa izithintelo zobonelelo

Lombane Iwangoku nokunciphisa ukusetyenziswa kakhulu Iweejenereyitha zedizili kusetyenziswe obunye ubuchwepheshwa bombane (Steenkamp & Weaver, 2022; DMRE, 2021a). Umbane oveliswe

ngeProjekthi yeKarpowership uya kuba negalelo ekunciphiseni umthwalo kacimicimi wombane oneziphumo ezibi kwintlalo noqoqosho ngokubonelela ngombane ofunekayo othunyelwayo, onokunikezelwa kumthwalo osisiseko, umgangatho ophakathi naxa udingeka kakhulu.

IRMI4P, ibhengeze ukuba iProjekthi eManyanisiweyo yeNkqubo-qhinga, iyimpendulo ebalulekileyo kwingxaki yombane, kwaye ngokuhambelana negunya likarhulumente lokubonelela ngeenkonzo eziqinisekisa ukukhula koqoqosho Iwentlalo nokuphila kakuhle ukuze kuxhamle uluntu lonke. Iprojekthi ecetywayo ye-Karpowership ihambelana ne-IRP 2019 aphi isibonelelo senziwe ngerhasi kumxube wombane. linqanawe eziphehla umbane azimele ukuthayathwa njengezithatha indawo yombane ovuselelekayo, zimele ukuthathwa njengobuchwepheshwa obuncedisayo kumbane ovuselelekayo, ezixhasa inguqu yokusuka kumalahle kune nokunciphisa iimpembelelo ezimbi zokusingqongileyo ezinxulumene namalahle. Iprojekthi yeKarpowership izisa isisombululo kumbandela otshis'ibunzi wokunqongophala kombane, yona ithi, umbane unokuthunyelwa ngomyalelo xa ukunikezelwa kombane kuphantsi koxinzelelo.

Ukongeza, iprojekthi iya kukhokelela kwiimpembelelo ezlungileyo eziphindaphindayo kuqoqosho Iwengingqi ngexesha lolwakhiwo kune nenqanaba lokusebenza. I-Karpowership iya kudlala indima entle kuqoqosho Iwengingqi ngezakhono-, ushishino- kune neenkqubo zophuhliso Iwababoneleli. limpembelelo eziphehla ngqo, ezingathanga ngqo, neziphenjelelwayo zezoqoqosho zeprojekthi kwingqesho, ukwensiwa kwengeniso, imveliso entsha kune nexabiso lezoqoqosho liya kuba lihle. Oku kuya kubandakanya uphuhliso Iwezakhono nophuhliso Iwezakhono ngokubhekiselele.

Kufezekiso Iwenguqu enobulungisa eMzantsi Afrika. Ngoko ke kucingelwa ukuba iprojekthi yeKarpowership iya kubangela impembelelo entle yentlalo-qoqosho xa kuwalaselwa inkitha yeempembelelo zoqoqosho kune nokusingqongileyo.

Kubalulekile ukuba siyibethelele into yokuba iprojekthii yeKarpowership ikwizibuko elisebenzayo, eliikuMmandla woQoqosho oKhethekileyo weZibuko laseRichards Bay, ethathwa njengeyona ndawo iphambili elungiselela ngokukodwa icandelo lombane nelaselwandle

Nangona kunjalo, ukwenza izinto ngenkathalo nangokuzinzileyo kule projekthi icetywayo kuyafunwa ngokweemfuno zeNEMA nemithetho yokusingqongileyo, neMithetho yeMigaqo-nkqubo neziKhokelo. Ukongeza, kufuneka kuqatshelwe ukuba kusetyenzwa ngenkathalo. Ngako oko, luninzi uvavanyo lwempembelelo kwiinkalo ezininzi olwensiweyo ziingcali njengenxalenye yenqubo ye-EIA, ukuhlanganiswa kwezinto ezifunyanisiweyo zeengcali kwaqinisekiswa kunye nokusetyenziswa kombono we-polycentric kuvavanyo lwempembelelo kwasetyenziswa. limpembelelo ezimbi nezilungileyo zichongiwe, zaze zaphetshwa zonke iimpembelelo ezingalunganga ukuze kuncitshiswe impembelelo, nezindululo zolawulo ezingezinye zinikezelwe ngokweEMPr. Zonke iNgcali, ziyixhasile iprojekthi kwaye akukho ziphene zibulalayo ziboniweyo. Indlela yokujonga i-polycentric inike ingqwalasela kuyo yonke imiba efanelekileyo, kubandakanya iimpembelelo ezinokuthi zibe nazo iprojekthi ecetywayo kwindawo kunye nakuluntu ngokubanzi.

Kukho elinye ithuba lophando lwenzululwazi kunye neenkubo zokubeka iliso ukwazisa ulawulo olulungelelanisiweyo kumjikelo wobomi bale projekthi, kunye neeprokthi ezifanayo ezisezibukweni. INgcali yokuZinziseka, esekelwe kumagalelo eeNgcali, ivavanye ngokuzimeleyo iprojekthi ngokwejografi, ngokwasemzimbeni, ngokwebhayoloji, ezentlalo, ezoqoqosho nenkcubeko kwinkalo yokusingqongileyo ngokusetyenziswa kweendlela ezintathu eziye zancedisa ekuhlanganiseni, nokudibanisa, nokuqulunqa ulwazi lobugcisa ngeenjongo zokwenza iziqqibo. Esi sigqibo silandelayo kwafikelelw kuso: "Ngenxa yokuba iingcali ezithathe izifundo zobungcali ziye zakuxhasa ukunikezelwa kogunyaziso lokusingqongileyo, ngeemfuno ezahlukeneyo zokuthomalalisa nokulawula, ndiyayixhasa le projekthi inikwe isigunyaziso sokusingqongileyo, ukuba kukho ukuthomalalisa okuyimfuneko nezindululo

zolawulo zixhasiwe. Izindululo ezinkelwe kule ngxelo zinika ithuba elongezeleleleko lokunciphisa iimpembelelo ezingalunganga zale projekthi kokusingqongileyo nokwandisa igalelo elincomekayo nelifa elinokuthii iKarpowership SA ifake isandla kolu luntu."

6. Inkazo yeProjekthi

IProjekthi ibandakanya ukuveliswa kombane ngeenqanawa ezimbini zoMbane ezibotshelelwe kwiZibuko laseRichards Bay, ezondliwa ngerhasi yendalo esuka kwinqanawa yesithathu, iYunithi yokuGcina ukuFaka nokuVuselelwa ngokutsha (FSRU). Ezi nqanawa zintathu ziyakubotshelelwa kwizibuko ukulungiselela iProjekthi elindelekileyo iminyaka engama-20 yokuphila. IsiThuthi seRhasi yeNdalo eNyibilikisiweyo (LNGC) iya kuzisa irhasi yendalo enyibilikisiweyo (LNG) ize iyikhuphele kwi-FSRU malunga neentsuku ezingama-20 ukuya kwezingama-30, kuxhomekeke kumbane ofunekayo ogqitywe ngumthengi, u-ESKOM. I-FSRU igcina i-LNG ize iijke ulwelo lube kwimo yerhasi (iRhasi yeNdalo) xa ifunwa nguMbane (uRegassification). Irhasi yendalo iya kukhutshelwa isuka kwifSRU isiwe kwiNqanawe eziphehla uMbane ngombhobho werhasi engaphantsi kolwandle.

Umthamo woyilo weProjekthi ngama-540MW. Umbane uya kuveliswa kwiNqanawe eziphehla uMbane (Powerships) ngee-injini ezingama-27 eziphindaphindayo, nganye inegalelo lobushushu elingaphezulu kwe-10MW (umthamo woyilo we-18.32MW nganye ikwisakhono esipheleleyo). Ubushushu obuveliswa kukusebenza kwee-injini eziphindaphindayo buyabanjwa, kwaye loo mandla asetyenziswa ukwenza umphunga ukuqhuba iiinjini zomphunga ezintathu nganye inegalelo lobushushu elimalunga ne-15.45MW. Umthamo wekhontrakthi oyi-450MW, ongenako ukugqithiswa phantsi kwemiqathango ye-RMIPPPP, uya kukhutshwa ngentambo yothumelo eyi-132kV kumgama omalunga ne-3.6km. Umbane uya kukhutshwa kwisiKhululo soMbane ukuya kwisikhululo esincinci sase-Impala, kusetyenziswa indawo yoqhamshelo (ifuna isikhululo esitsha sokutshintshela) kufutshane neSikhululo esikhoyo saseBayside, esondla umbane kuthungelwano lwasizwe.

7. Indlela ezingezinye

IMimiselo ye-EIA, yowama-2014 (njengoko ilungisiwe) ifuna ukuba zonke iinkqubo ze-S&EIR zichonge

kwaye zichaze ezinye iindlela ezinokwenzeka nezisengqiqweni. lindlela ezininzi ezizezinye ziye zachongwa kwaye zaqwalaselwa ukuza kuthi ga ngoku

kwaye abekwe kude kunenyi indawo yesi-2 ukusuka elunxwemeni lwersanti olunovakalelo. Esi sikhundla singomnye samkelwa yi-TNPA kwaye ngokuhambelana nesicwangciso sabo sezibuko

ITafile 0-2: lindlela ezizezinye zivavanyiwe

Iindlela ezizezinye	Iizathu zihlolisisiwe
Enye Indlela: Inqanawe ephehla uMbane Inqanawe ephehla uMbane (Powership) e1-2 ibekwe kufutshane nodonga lwersanti olubuthathaka kude nonxweme, oluya kufuna intambo yokuhambisa ixesha elide kunye nenqaba ephezulu.	Le yenye iindlela enokwenzeka, nangona kunjalo ithathwa njengengafanelekanga kwiimbono zobunjineli nezokusingqongileyo.
Ubeko Olulolunye: Imizila yokuThumelo - Indlela ibekwe kumlinganiselo omkhulu wobude bayo phakathi kwemigxobhozo, kwaye inqumla kwiindidi ezimbini zezityalo eziseMngciphekweni ngokuBalulekileyo: Ihlathi leMangrove kunye neHlathi loMgxobhozo.	Ithathwa njengesiphene esibulalayo kwaye ke ayixhaswanga

Ezi ndlela zilandelayo zaqwalaselwa kwi-EIA:

7.1. Ezinye iindlela zokubeka

Elwandle:

INqanawe ephehla umbane eKhethiweyo kunye noMbhabho weRhasi yenye yeendlela zoku-1: iINqanawe eziphehla uMbane (-Powerships) zibekwe ngaphakathi kwe-dead-end basin, kwaye zibekwe kufutshane nenqaba yokuqala yomzila wothumelo. Amagunya abekwe kumhlaba ongundoqo 'wepromontory' ekufuphi nesikhululo semangrove,

INqanawe ephehla umbane kwakunye neMbhabho weRhasi yindlela yesi-2: ithathwa njengento engafanelekanga kakhulu kwiimbono zobunjineli nezokusingqongileyo, njengoko iINqanawe eziphehla uMbane kunye neenkubo zokubophelela zibekwe kufutshane ne-santi ebuthathaka kude nonxweme, okuya kufuna intambo yothumelo olude kunye nenqaba ephezulu.

Ukuhambisa:

Indlela engenye 1 (Ekhethwayo): Uninzi Iwendela ibekwe kwiindawo ezinovakalelo Iwendalo oluphantsi ukuya koluphakathi, kwaye iza kunqumla kwimigxobhozo enovakalelo oluphezulu namahlathi asemgxobhozweni, kwaye inxalenyen enkulu yale ndlela ilandelayo ilandela iindlela ekhoyo yentambo yombane. Le ndlela ingenye inikezela ngendlela emfutshane ukuya kwindawo yokugqibela.

Enye iindlela 2: Le ndlela inqumla imimandla ebikhe yatshintshwa ngokwembali, nangona kunjalo ezi ndawo zisathathwa njengezinovakalelo oluphezulu. Ngaphaya koko, le ndlela yendlela yothumelo ecetywayo ibekwe kumlinganiselo omkhulu wobude bayo phakathi kwemigxobhozo, kwaye inqumla kwiintlobo ezimbini zezityalo eziseMngciphekweni wokuTshabalala: Ihlathi leMangrove kunye neHlathi loMgxobhozo. Ezi zinovakalelo oluphezulu kakhulu kwaye ngenxa yoko, zinokuthathwa njengesiphene esibulalayo kwaye ke le ndlela ingenye ayixhaswanga.

7.2. Ukuyilwa kwezinye iindlela

Umbhabho wothumelo ocetywayo unokwakhiwa nokuba kunge-monopole okanye ngentsimbi ye-lattice, ngokusekwe kwiimfuno zokugqibela zoyilo lobunjineli, iTopografi kunye neziphumo zovavanyo lwe-geotechnical. Njengoko kubonakala ukuba zinizi iilethisi ezifuna ukususwa kuneemonopoles, iimonopole ibe zezona zikhethwayo.

7.3 iINdlela ezizezinye zeTekhnoloji: I-Petroli

iINqanawe eziphehla uMbane (Powerships) eziza kuthunyelwa ziya kuvelisa umbane kusetyenziswa iinjini ze-Wärtsilä ezisebenza ngokukodwa kwirhasi yendalo. I-Wärtsilä iqhuba uphando olunzulu malunga nokusetyenziswa kwemithombo eyahlukeneyo yamafutha ngaphakathi kweenjini zayo, iphucula

isenza ngcono itekhnoloji yabo ukuze ibe lulutho nakwixesa elizayo. UWärtsilä wenze inkqubela phambili ebonakalayo ekusebenziseni irhasi yehidrojeni ukwenza umbane ngobuchwepheshwa benjini; Ngelixa sele kukwazi ukusebenzisa umxube we-hydrogen kunye nerhasi yendalo, obu bugcisa busebutsha kwaye buphantsi kophando olungqongqo nophuhliso Iwemisebenzi ye-hydrogen, kwaye iziphumo zolo phando kunye nophuhliso (R&D) zilindelwe kwiminyaka ezayo.

7.4 Indlela emayingathathwa

Inketho yokungawuphumezi umsebenzi o.k.k. enye indlela "emayingahanjwa" nayo iye yaqwälaselwa. Ngokumalunga neProjekthi, oko kuya kuthetha ukuba imeko ekhoyo iya kuba yengamelanga. Ngeli xesha uncedo yolu khetho ikukuba akusayi kubakho zimpembelelo zimbi kokusingqongileyo okanye kwezentlalo, kwakhona akunakubakho nzuzo intle yezentlalo noqoqosho kwakunye nokusasazwa kobuxhakaxhaka bobuchwepheshwa bamandla atshintshayo ngokuhambelana neenjongo zoMzantsi Afrika zeNguqu yoMbane oLungileyo.

Ngokusekelwe kwiziphumo zophando Iweengcali ezizimeleyo, iprojekthi ecetywayo ayisayi kuba neziphumo ezibi kakhulu zokuchaphazeleka kokusingqongileyo okanye kwezentlalo, ibonelele ngamanyathelo okunciphisa andululwe yi-EAP kunye neengcaphephe, njengoko ziqlathwe kwiCandelo lesi-8 lengxelo eyilwayo ye-EIA kunye ne-EMPr, ziyaphunyezwu.

Enyanisweni, iprojekthi ecetywayo iya kuba neempembelelo ezintle zokusingqongileyo ngenxa yamanyathelo okunciphisa abandakanya uphando ngendalo nophuculo oluya kulantela ixesha elide oluphuma kulwazi oluphculwego. Impembelelo ezimbi zokusingqongileyo ezibangelwa ngucimicimi wombane, ukuncipha kombane okanye ukusetyenziswa kwemithombo yamafutha eyingozi ngakumbi kokusingqongileyo nazo ziya kuphetshwa.

Impembelelo ezilungileyo kakhulu ezincombekeyo kwezentlalo noqoqosho aziyi kufezekiswa kwimeko yokungahambeki. Utshintsho olunobulungisa kwezentlalo Iwabasebenzi abahluphekayo, nabangaqeleshewanga msebenzi, nabantu abangahoywanga nokujoliswe kuko nguRhulumente kumxube wonikezelo lombane oluzinzileyo nako akuyi kwenzeka kumxholo weProjekthi yeKarpowership

ePort of Richards Bay. Inzuzo elahlekileyo yokuba nombane ophuma kwirhasi yendalo, inciphisa uzinzo nokomelela kweegridi zombane, ngaloo ndlela kuncitshiswa utshintsho lombane ekuququzeleleni ukusasazwa ngokukhawuleza kwemithombo yombane ahlaziyekayo. Umbane unokuthunyelwa kuthungelwano Iwesizwe ukuze uhlangabezane nombane odingekayo ngoku, kwixesha elizayo, imfuno eyongeziweyo yombane elizweni ayisayi kufumaneka ukunqanda ukuhla koqoqosho okuyintlekele nokonakala okuyanyaniswa nokucinywa kombane okusisiphumo sokunqongophala okuhlala kunyuka kombane. Ucimicimi wombane okuqhubelekayo uya kuba nefuthe elibi kwintlalontle yesininzi sabemi boMzantsi Afrika, kuqoqosho ngokubanzi ngokunjalo nakwizimvo zabatyali-zimali basekhaya nabamazwe ngamazwe. Amathuba okuvuselela uqoqosho ngengqesho, iinkqubo zophuhliso Iwentlalontle, iibhasari zemfundu, ezinye iinkqubo zemfundu, iinkqubo zophuhliso Iwezakhono nokuthengwa kwempahla kubathengisi basekuhlaleni lo gama amacandelo oqoqosho ngokubanzi afana noshishino, ukhenketho nolonwabo nawo aza kujongana nemiqobo yohlumo. Ilinzuzo zokusingqongileyo zibalulekile kwaye iingenelo zentlalo nezoqoqosho zoyisa kakhulu iimpembelelo ezincitshisiweyo zokusingqongileyo nezentlalo noqoqosho.

Xa ubuncinci obunokuba khona umngcipheko wokusingqongileyo nentlalo-qoqosho ngokuthomalalisa kuthelekiswa neenzuzo ezinokuthi zibe khona kokusingqongileyo kunye nentlalo-qoqosho, akukho khuphiswano.

Indlela yokungahambeli ke ngoko ayihambelani nemithetho-siseko yophuhliso oluzinzileyo ngokunxulumene nobonelelo lombane oluvela phantsi kwe-SDG 7: Umbane ofikelelekayo nococekileyo kunye ne-SDG 8: uMsebenzi oLungileyo kunye noHlumo loQoqosho. Ngoko ke luluvu oluqiqiweyo Iwe-EAP ukuba iProjekthi ecetywayo ye-540MW yeRhasi eyenza uMbane, kufuneka igunyaziswe ngokuxhomekeke kwimiqathango ecetywayo kwiCandelo le-9.2, ebandakanya ukuthotyelwa kwe-EMPr. Yiyo loo nto enye indlela "yokungahambi" ingakhuthazwa

8 Uthethathethwano nabachaphazelekayo

Uthethathethwano nabachaphazelekayo licandelo eliphambili lenkqubo ye-S&EIR kwaye Iwenziwa ngokuhambelana neemfuno zeMimiselo ye-EIA.

Amaxesha othethathethwano nabachaphazelekayo abandakanya oku kulandelayo:

- Isaziso sokuqala nokungeniswa kwe-BID;
- Ixesha lezimvo zoluntu ngokusesikweni kwingxelo eyidrafti ye-EIA

Imisebenzi engundoqo yothethathethwano nabachaphazelekayo ngexesha leenkqubo ze-EIA ishwankathelwa kwiTafile.

ITheyibhile Error! No text of specified style in document.-2: IsiShwankathelo sokuBandakanya kwabaChaphazelekayo:

Imisebenzi

Umsebenzi	Umhla
Isaziso sokuqala	
Isibhengezo-ntengiso, uXwebhu loLwazi lweMveli (BID), iZaziso zeSiza, iiflaya, amaphetshana ezaziso, izaziso zikanomathotholo	24 -28 Oktobha 2022
lintlanganiso zokubonisana	24 Oktobha – 09 Novemba 2022
Uvavanyo lweMpembelelo	
Uyilo IweXesha lokuHlola lwe-EIAR	10 Novemba – 13 Disemba 2022
lintlanganiso zikawonke-wonke nezibanja ngobuchwephesh bale mihla	25 Novemba 2022

9. Uvavanyo lweempembelelo ezinokuthi zibe khona

9.1 IzIFundo zeeNgcali kwakunye neeNgxelo zobuGcisa

Uphononongo Iweengcali Iwenziwa ukuphanda iimpembelelo ezinokuthi zibe khona ngokuthe ngqo, ezingathanga ngqo kune nezongezelekayo:

I-Hydrology kune noVavanyo loMda weZikhukula woNyaka we-1:100

- I-Hydrology kune noVavanyo loMda weZikhukula we1:100
- Uvavanyo Iwasemanzini
- Uvavanyo lwe-Hydriopedoloji
- Uvavanyo lweGeohydroloji
- Uvavanyo loMncono waManzi

- Ukucaciswa kwemigxobhozo kune noVavanyo lokuSebenza
- UVavanyo lweLifa leMveli nePalaeontoloji
- UVavanyo lweZilwanyana eziphila emhlabeni
- Uvavanyo lwe-Avifauna
- Ingxelo yeNgxoxo phantsi kwamanzi esisiseko
- Ingxelo yoVavanyo lweNgxolo phantsi kwamanzi
- Ingxelo yeLifa leMveli phantsi kwamanzi
- UVavanyo lweNdalo yoLwandle kune neNgxelo yeMpembelelo yezokuLoba
- UVavanyo lweeNkomo zaseLwandle
- UVavanyo lwanachweba kune nonxweme
- Izithuthi zibandakanya Ezaselwandle
- Ingxelo ye-Thermal Plume Modeling
- UVavanyo lweMpembelelo yoMgangatho woMoya
- UVavanyo lweMpembelelo yeNgxolo eAmbient
- UVavanyo lweMpembelelo yoTshintsho lweMozulu
- UVavanyo lweMpembelelo yoQoqosho lweNtlalo
- Ingxelo yokuBandakanya kweeNgcali zabalobi abasakhasayo
- Uzinzo
- UVavanyo lweMpembelelo kwezoKhenketho
- UVavanyo lweMpembelelo eBonakalayo
- Ufakelo IweNgciphiko eziMakhulu
- Indima yegesi kwiNguquko yoLungelo
- lindleko zeRhasi xa zithelekiswa neendlela ze-Renewable energy

Kuzo zonke iimpembelelo ezinokubakho ezibalulekileyo, ukabaluleka kwempembelelo elindelekileyo kuye kwahlelwa kune nemilinganiselo yokunciphisa ekhuthazwayo kwiTafile

9.2 Ukabaluleka kweMpembelelo

Ukabaluleka kokuchaphazeleka okunokwenzeka kweProjekthi ecetywayo kwamiselwa ukuze kuncedwe abathathi beziqibo. Amanqaku eempembelelo ewonke, kucingwa ukuba kuthathwe amanyathelo okunciphisa (jonga iCandelo 9.3.2) aphunyezwu ngokufanelekileyo, ngala:

- Akukho zimpembelelo zibalulekileyo okanye zingabalulekanga okanye imingcipheko echongiweyo kuphononongo Iweengcaphephe oluqhutywe ngokwemigaqo yezothutho, izithuthi zaselwandle, ufakelo Iwezinto ezinengozi ezinkulu, i-hydroloji, i-geohydroloji, i-hydriopedoloji, emanzini, ukhenketho kune nemiba yemonbakalo. Iimpembelelo nemingcipheko ephantsi kakhulu kune/okanye engabalulekanga kakhulu ichongiwe kwimigxobhozo, inzululwazi yezinto zakudala,

inzululwazi yezinto zakudala engaphantsi kwamanzi, ukukhutshwa kwe-atmosfere, ingxolo yomhlaba, ukhenketho kunye neempembelelo ezibonakalayo kunye nentlalo-qoqosho.

- limpembelelo zezityalo nezilwanyana ezisemhlabeni zisusela phantsi kakhulu ukuya kutsho ngaphantsi.
- limpembelelo eziPhakathi zaxelwa malunga nefuthe kwi-ikholozi yowlandle kwindawo efumana amanzi ngenxa yokukhutshelwa kwamanzi okupholisa okanye ukwanda kwamanqanaba, ingxolo nokungcangcazelu nefuthe leempembelelo kwiinkonzo ze-ikhosistim ngexesha lesigaba sokusebenza.
- limpembelelo ezilungileyo ezisezantsi ukuya kweziphezulu kakhulu zaboniswa kwimiba enxulumene noShishino IwezoKhenketho kunye nohlolo lwezentlalo noqoqosho lubonise iimpembelelo ezininzi ezilungileyo ukusuka kweliphakathi, eliphakathi ukuya phezulu ukuya phezulu.

Indlela yokujonga i-polycentric kwi-EIA ecetywayo yeprojekthi ifuna ukuqwalaselwa okupheleleyo yonke imiba efanelekileyo, kubandakanya iimpembelelo ezinokubakho iprojekthi ecetywayo enokuba nazo kwindawo yasekhaya nakuluntu ngokubanzi. ICandelo lesi-2(4)(b) le-NEMA lichaza ukuba ulawulo IweNdalo kufuneka ludityaniswe, luvume ukuba zonke izinto ezisingqongileyo lunxibelelene, kwaye kufuneka luthatthele ingqalelo iziphumo zezigqibo kuzo zonke iinkalo zendalo esingqongileyo kunye nabo bonke abantu abakungqongileyo. Uphuhliso oluzinzileyo ngokwe-NEMA lufuna ukudityaniswa kwemiba yezentlalo, yezoqoqosho, neyendalo ekucwangciseni, ekuphunyezweni nasekuvavanyweni kweeprokthi ezicetywayo, imiba efanelekileyo, kubandakanya iimpembelelo ezinokubakho iprojekthi ecetywayo enokuba nazo kwindawo yasekhaya nakuluntu ngokubanzi. ICandelo lesi-2(4)(b) le-NEMA lichaza ukuba ulawulo IweNdalo kufuneka ludityaniswe, luvume ukuba zonke izinto ezisingqongileyo lunxibelelene, kwaye kufuneka luthatthele ingqalelo iziphumo zezigqibo kuzo zonke iinkalo zendalo esingqongileyo kunye nabo bonke abantu abakungqongileyo. Uphuhliso oluzinzileyo ngokwe-NEMA lufuna ukudityaniswa kwemiba yezentlalo, yezoqoqosho, neyendalo ekucwangciseni, ekuphunyezweni nasekuvavanyweni kweeprokthi ezicetywayo, ukuqinisekisa ukuba uphuhliso lubonelela iimfuno zesizukulwana sangoku nesexesha elizayo.

Uhlolo oluzimeleyo lozinzo lwengcali ngoko luthatthele ingqalelo kokubini okulungileyo nokubi iimpembelelo zokwenyani nezinokubakho kwimiba yejografi, ngokwasemzimbeni, yebhayoloji, yezentlalo, yezoqoqosho, neyenkcubeko yokusingqongileyo kwindlela ebanzi nequka konke:

- Uyakuvuma ukuba okusingqongileyo yinkubo entsonkothileyo neguqukayo
- Yamkela ubudlelwane obunxibelelene bezentlalo nendalo kunye nentlalo-qoqosho.
- Ichonge imingcipheko neziphumo zeendalela ezizezinye kunye nokhetho lokunciphisa imisebenzi, ukunciphisa iimpembelelo ezingalunganga, ukwandisa iinzuzo, kunye nokukhuthaza ukuthotyelwa kwemithetho-siseko yolawulo lokusingqongileyo njengoko kuchaziwe kwiCandelo lesi-2 le-NEMA.

ITheyibhile 0-4 ngezantsi lushwankathela iimpembelelo ezivavanyiweyo kwi-EIA, kuquka nokubaluleka kwazo ngaphambili nangasemva kokuphunyezwawa kwemilinganiselo yokunciphisa ebalulekileyo.

Table 0 4: Summary of Impacts

Impembelelo enokwenzeka kunye noMngcipheko	Ukubaluleka	
	Ukunciphisa kwangap hambili	UkuNcits hiswa kwePosi
Impembelelo zeHydrology (ICandelo 7.5.1)		
Ukuphazamisa indawo ye-vadose ngexesha lokumba umhlaba / imisebenzi yokuzalisa	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi
Ukuvezwa kwemihlabu, okukhokelela ekunukeni kwamanzi okwandayo kwiindawo ezicociweyo kunye nokukhukuliseka kwemijelo yamanzi	Phantsi	Ngaphaka thi/ Ayinamse benzi
Ungcoliseko Iwamanzi aphezu komhlaba kunye nentlenga	Phantsi	Ngaphaka thi/ Ayinamse benzi
Ukuphazamiseka komhlaba kunye nokukhukuliseko kunye nentlenga kwemijelo yamanzi ekufutshane (isigaba sokusebenza)	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi

Ukutshintsha ukuchitheka kwesikhululo (iziganeko kuphela; isigaba sokusebenza)	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi		Ukulungiswa kwesiza kunempembelelo kwiinkqubo zokungena komhlaba, umgangatho womhlaba, ubume bomhlaba kunye nokukwazi komhlaba	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi
Ukuvuza kwizithuthi okwenzeka ngexesha lokulungiswa kwentambo yothumelo (isigaba sokusebenza)	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi		Ukuphazamisa indawo ye-vadose ngexesha lokumba umhlaba / imisebenzi yokuzalisa	Phantsi	Ngaphaka thi/ Ayinamse benzi
Impembelelo zamanzi (iCandelo 7.5.2)						
Ukususwa kwezityalo ezingaselunxwemeni kunye nendawo yokuhlala echaphazelaz uzinzo lweebhanki; Ukuphazamiseka kwenkangeleko yomhlaba wendalo okukhokelela ekwanden i kweentlob zezityalo zamany amazwe; llahleko yezityalo zasemanzini kunye nendawo yokuhlala.	Phakathi	Phantsi		Ukubekwa kwemihlaba emitsha kwindawo, ukuguqula iinkqubo ezikhoyo zokuqukuqela komhlaba ezinefuthe kwiinkqubo zokungena komhlaba, umgangatho womhlaba, ubume bomhlaba kunye nokukwazi komhlaba.	Phantsi	Ngaphaka thi/ Ayinamse benzi
Utshintsho kwimibhobho yendalo yokukhupha amanzi enokuthi ikhokelele ekudimeni okane ekwanden i kweepateni zokubaleka.	Phakathi	Phantsi		Ukuocwa kwezityalo & nokugcinwa komhlaba okunefuthe kwiinkqubo zokungena komhlaba, umgangatho womhlaba, ubume bomhlaba kunye nokukwazi komhlaba	Phantsi	Ngaphaka thi/ Ayinamse benzi
Ukuvuza kwiimoto kunye noomatshini. I-oyile kunye nokuchitheka kwamafutha ezimotweni (isigaba sokwakha)	Phakathi	Phantsi		Umgangatho wamanzi angaphezulu (umgxbhozo).	Phantsi	Ngaphaka thi/ Ayinamse benzi
Ukuvuza kwiimoto kunye noomatshini. I-oyile kunye nokuchitheka kwamafutha ezimotweni (Isigaba sokuSebenza)	Phantsi	Phantsi		Umgangatho womhlaba	Phantsi	Ngaphaka thi/ Ayinamse benzi
Utshintsho ekubunjweni kweentlob ngenxa yokulahleka kwendawo yokuhlala yasemanzini, utshintsho kubulunga bamanzi.	Phantsi	Phantsi		Ukwembiwa kuya kuphazamisa iinkqubo zokungena komhlaba	Phantsi	Ngaphaka thi/ Ayinamse benzi
Impembelelo zeGeohydrology (iCandelo 7.5.4)						
				Ukuphazamisa indawo ye-vadose ngexesha lokumba umhlaba / imisebenzi yokwakha	Phantsi	Ngaphaka thi/ Ayinamse benzi
				Ukungcoliseka kwe-Hydrocarbon yendawo	Phantsi	Ngaphaka thi/
Impembelelo ze-Hydropedology (Icandelo 7.5.3)						

ye-vadose (isigaba sokwakha)		Ayinamse benzi
Ungcoliseko Iwamanzi aphezu komhlaba kunye nentlenga ukusuka kule misebenzi ilandelayo yokwakha	Phantsi	Ngaphaka thi/ Ayinamse benzi
limpembelelo kubasebenzisi bamanzi aphantsi komhlaba	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi
Ukuthotywa kwamanzi okwexeshana kumanzi aphantsi komhlaba (ukuba kuyenzeka)	Phantsi	Ngaphaka thi/ Ayinamse benzi
Ukungcoliseka kwe-Hydrocarbon yendawo ye-vadose (isigaba sokusebenza)	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi
Impacts to downstream groundwater users (operational phase)	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi
limpembelelo zoMgxobhozo (iCandelo 7.5.5)		
Indawo yokuhlala ethe ngqo kwiimodlelo zabasebenzisi ukuba basebenzise amanzi aphantsi komhlaba (icandelo elisebenzayo) Uqinisekiso – Impembelelo ethe ngqo	Phakathi-Phantsi	Phantsi
Umgangatho waManzi (uNgcoliseko) – impembelelo ethe ngqo	Phakathi-Phantsi	Phantsi
Ukuguqulwa kwendawo ekugcinwa kuyo amanzi (indawo yokugubungela umhlaba kunye nokubaleka kwamanzi) – impembelelo engathanga ngqo	Phantsi	Isezantsi kakhulu
Umgangatho waManzi (uNgcoliseko) – impembelelo engathanga ngqo	Phantsi	Isezantsi kakhulu
limpembelelo ze-Archaeology kunye nePalaeontology (Icandelo 7.5.6)		
Akukho mpembelelo		
limpembelelo zeNzululwazi yeNdalo ePhakamileyo (iCandelo 7.5.7)		

Ilahleko yendawo yokuhlala elungisiweyo (Isigaba Sokwakha)	Phakathi-Phantsi	Phantsi
Ilahleko yeebhedi zeengcongolo (iSigaba soKwakha)	Phakathi	Phantsi
Ilahleko yamadlelo (iSigaba soKwakha)	Phakathi-Phantsi	Phantsi
Ilahleko yezihluma lindidi zoLondolozo IweNdalo (i-SCC) (iSigaba soKwakha)	Phakathi	Phantsi
Ilahleko yeFauna SCC (iSigaba soKwakha)	Phakathi	Phantsi
Ilahleko yeentlobongeentlobo zezinto eziphilayo ngokubanzi (iSigaba soKwakha)	Phakathi-Phantsi	Phantsi
Ukwahlulwa (Isigaba Sokwakha)	Phakathi-Phantsi	Phantsi
Uhlaselo Iweentlobo zamanye amazwe (iSigaba soKwakha)	Phezulu	Phantsi
Ilahleko yendawo yokuhlala elungisiweyo (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ilahleko yeebhedi zeengcongolo (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ilahleko yamadlelo (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ukulahleka kweenatyat�ambo SCC (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ilahleko yeFauna SCC (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ilahleko yezityalo nezilwanyana ezohlukeneyo ngokubanzi (iSigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Ukwahlulwa (Isigaba sokuSebenza)	Phakathi-Phantsi	Phantsi
Uhlaselo Iweentlobo zamanye amazwe (Isigaba sokuSebenza)	Phezulu	Phantsi
limpembelelo ze-Avifauna (Icandelo 7.5.8)		
Amandla: Ilahleko yendawo yokuhlala (iSigaba soKwakha)	Phakathi-Phantsi	Phakathi-Phantsi

Amandla: ukuphazamiseka kwabantu (iSigaba soKwakha)	Phakathi	Phakathi- Phantsi	zaselwandle (Isigaba sokwakha)		
Umzila woThutho: Ilahleko yendawo yokuhlala (iSigaba soKwakha)	Phakathi- Phantsi	Phantsi- kakhulu	Utshintsho kumgangatho wamanzi ngenza yomsebenzi wokwakhiwa kwamanzi	Phakathi	Phakathi- Phantsi
Iziseko zophuhliso: ukuphazamiseka kwabantu (iSigaba soKwakha)	Phakathi	Phakathi- Phantsi	Ukuphazamiseka kwi- ecology yamachweba ajikelezileyo, kunye nokuloba kunye ne- mariculture, ngenxa yokwanda kwamanqanaba engxolo.	Phakathi- Phantsi	Phakathi- Phantsi
Ilahleko yendawo yokuhlala: Iziseko zophuhliso (Isigaba sokuSebenza)	Phakathi- Phantsi	Phantsi- kakhulu	Impembelelo ze- Avifauna (Amandla kunye nentambo yoThutho)	Phakathi	Phakathi- Phantsi
Iziseko zeprojekthi: ungquzulwano (Isigaba sokuSebenza)	Phakathi- Phezulu	Phakathi- Phantsi	Ilahleko yeentlobo zezilwanyana eziNxibeleyo (isigaba sokwakha)	Phakathi	Phantsi
Isiseko seprojekthi: umbane (iSigaba sokuSebenza)	Phakathi- Phantsi	Phakathi- Phantsi	Ungcoliseko Iwenkunkuma eqinileyo (Isigaba sokuSebenza)	Phakathi- Phantsi	Phantsi
Amandla: ungcoseko lokukhanya (Isigaba sokuSebenza)	Phantsi	Phantsi	Ungcoliseko Iwemichiza oluvela ukuchitheka kwezinto ezinobungozi (Isigaba soKwakha)	Phakathi- Phezulu	Phakathi- Phantsi
Amandla: iimpembelelo zengxolo kunye nokungcangcazel (Isigaba sokuSebenza)	Phakathi	Phakathi	Ukuthathwa kwamanzi okupholisa kwizinto eziphila elwandle kwindawo ejikelezileyo yamanzi (Isigaba sokuSebenza)	Phakathi	Phakathi- Phantsi
Amandla: ukuphazamiseka kwabantu (Isigaba sokuSebenza)	Phakathi- Phantsi	Phantsi- kakhulu	Ukukhutshwa kwamanzi okupholisa kwichweba/kwizinto eziphilayo zaselwandle (Isigaba sokuSebenza)	Phakathi- Phezulu	Phakathi- Phantsi
Impembelelo zengxolo ngaphantsi kwamanzi (ICandelo 7.5.9)			Iziphumo kwi-stuarine ejikelezileyo/i-ecology yolwandle ngenxa yokwanda kwengxolo ephantsi kwamanzi kunye nokungcangcazel (Isigaba sokuSebenza)	Phakathi- Phezulu	Phakathi
Ayikho Impembelelo			Iziphumo kwi-stuarine ejikelezileyo/i-ecology yaselwandle ngenxa	Phakathi- Phezulu	Phakathi
Impembelelo ze-Archaeology yangaphantsi kwamanzi (ICandelo 7.5.10)			Iziphumo kwi-stuarine ejikelezileyo/i-ecology yaselwandle ngenxa	Phakathi- Phezulu	Phakathi- Phantsi
Amathuba asezantsi kakhulu eLwandle kunye nemithombo yeLifa leMveli yeNkcubeko eNgaphantsi kwamanzi	Ngaphaka thi/ Ayinamse benzi	Ngaphaka thi/ Ayinamse benzi	Iziphumo kwi-stuarine ejikelezileyo/i-ecology yolwandle ngenxa yokwanda kwengxolo ephantsi kwamanzi kunye nokungcangcazel (Isigaba sokuSebenza)	Phakathi- Phezulu	Phakathi
Impembelelo zoNxweme, ichweba kunye neNdalo yeNdalo yaseLwandle (ICandelo 7.5.11)			Iziphumo kwi-stuarine ejikelezileyo/i-ecology yaselwandle ngenxa	Phakathi- Phezulu	Phakathi
Ukuphazamiseka okane ilahleko yechweba lechweba kunye nezilwanyana	Phakathi- Phantsi	Phantsi	Iziphumo kwi-stuarine ejikelezileyo/i-ecology yaselwandle ngenxa	Phakathi- Phezulu	Phakathi- Phantsi

yokwanda kongcoliseko lokukhanya (Isigaba sokuSebenza)			
Iziphumo zeempembelelo zokusebenza ezidityanisiweyo kwiinkonzo ze- ikhosistim (ukuloba kunye ne-mariculture)	Phakathi	Phakathi	
Ungcoliseko Iwekhemikhali oluvela ekuchithhekeni okunxulumene nolwakhiwo lwezinto ezinobungozi kunye nemisebenzi yokuthumela ngenqanawa (Isigaba sokuSebenza)	Phezulu	Phakathi- Phantsi	
Iziphumo zeengozi zentlekele kwi- stuarine/i-ikholoji yolwandle, i-avifauna kunye neenkonzo ze- ikhosistim (iSigaba sokuSebenza)	Phantsi	Phantsi	
limpembelelo zomoya kunye nemingcipheko (iCandelo 7.5.13)			
SO ₂ ; NO ₂ and PM ₁₀	Phantsi	Phantsi	
limpembelelo zeNgxolo eMhlabeni kunye nemingcipheko (iCandelo 7.5.14)			
limpembelelo zengxolo ezivela kwimisebenzi yokwakha	Phakathi- Phantsi	Phantsi	
Impembelelo yengxolo evela kwimisebenzi yokusebenza	Phakathi- Phantsi	Phantsi	
limpembelelo zoTshintsho IweMozulu kunye nemingcipheko (iCandelo 7.5.15)			
Igalelo kutshintsho lwemozulu	Phantsi (Okuhle)	Phantsi (Okuhle)	
limpembelelo zentlalo noQoqoshu kunye nemingcipheko (ICandelo 7.5.16)			
Ukutshintsha kwezinto eziphilayo kunye nemozulu kwiimpilo zoluntu	Phantsi	Phantsi (Okuhle)	
Uqoqoshu, kunye nempilo yabalobi basekuhlaleni	Phakathi	Phakathi (Kakuhle)	
kwingingqi (hayi nje abalobi abakwindawo yezibuko)			
Ukuncitshiswa kokhenketho kunye nemisebenzi enxulumeneyo kwindawo kaMasipala nakwingingqi ngokubanzi.	Phakathi	Phantsi (Okuhle)	
Ukwanda kwemfuno yeziseko zophuhliso zikamasipala, iinkonzo zentralontle kunye nolwaphulo-mthetho olunxulumene nabasebenzi bokwakha kunye nabafuna umsebenzi (isigaba sokwakha)	Phantsi	Phantsi	
Ukwanda kwemfuno yeziseko zophuhliso zikamasipala, iinkonzo zentralontle kunye nolwaphulo-mthetho olunxulumene nabasebenzi bokwakha and job seekers (Operational phase)	Phakathi	Phakathi	
Ukuggithiselwa kwezakhono kunye nophuhliso (iSigaba soKwakha)	Phantsi (Okuhle)	Phakathi (Kakuhle)	
Ukuggithiselwa kwezakhono kunye nophuhliso (iSigaba sokuSebenza)	Phantsi (Okuhle)	Phantsi (Okuhle)	
Uvakalelo lwendawo efunyenwe ngenxa yeziphumo ezibonakalayo kunye nengxolo	Phantsi	Phantsi	
Ukunyuka kwemveliso yezoqoqoshu, ixabiso, ingeniso kunye nengqesho ngexesha lokwakha kunye nokusebenza	Phezulu (Kuhle)	Phezulu (Kuhle)	
limpembelelo zoKhenketho kunye nemingcipheko (iCandelo 7.5.17)			

Impembelelo enokubakho yengxolo engalunganga kwiZibuko laseRichards Bay kwimisebenzi yokhenketho Iwaselwandle	Phantsi	N/A
Ukuchaphazeleka okunokubakho okungalunganga okubonakalayo kunye nengxolo kukhenketho kwiZibuko laseRichards Bay	Phantsi	N/A
Impembelelo ezintle ezinokubakho zobonelelo lombane IweKarpowerships kushishino Iwendwendwe nokhenketho eRichards Bay	Phezulu kakhulu (Kakuhle)	Phezulu kakhulu (Kakuhle)
Impembelelo ezintle ezinokuthi zibe kho kuKhenketho IwaMandla noShishino eRichards Bay	Phantsi (Okuhle)	Phantsi (Okuhle)
Impembelelo zendlela (iCandelo 7.5.18)		
Akho Mpwmbelelo		
Impembelelo eziBonakalayo (iCandelo 7.5.19)		
Akho Mpwmbelelo		
UMngcipheko oMkhulu woFakelo IweeNgozi (iCandelo 7.5.20)		
Akho Mpwmbelelo.		
Impembelelo zeZithuthi zaseLwandle kunye noMngcipheko (iCandelo 7.5.21)		
Akho Mpwmbelelo		

9.3 Amanyathelo anguNdoqo wokuNciphisa

Uluhlu Iwemigangatho yokunciphisa (ukuphepha, ukunciphisa, ukubuyisela kwisimo sangaphambili kunye nokunciphisa) kwasetyenziswa. Ukuthomala Lisa uyilo olungundoqo olucetywayo ukulungisa iimpembelelo zendlela yokudlula zishwankathelwa nezantsi:

Ukuphepha

La manyathelo alandelayo ajolise ekuthinteleni iimpembelelo ezithile:

- Ukujonga iNdlela yesi-2 yothumelo lwendlela njengoko le ndlela inqumla kwiintlobo ezimbini zeziyallo eziseMngciphekweni wokuTshabalala: Ihlathi leMangrove kunye neHlathi loMgxobhozo. Ezi zinovakalelo oluphezulu kakhulu kwaye ngenxa yoko, zinokuthathwa njengesiphene esibulalayo ekufuneka siphetshe.

- Ukubekwa kweenqanawa ezi-2 kufutshane nodonga Iwesanti olunovakalelo kwaye kude nonxweme, nto leyo eya kufuna intambo yothumelo ende kunye nenqaba ephezulu. Le ndlela inokuthi inokwenzeka iye yajongwa njengoko ijongwa njengengafanelekanga kangako kubunjinelu kunye neembono zokusingqongileyo.

- Ukulungelelanisa komzila wothumelo ecaleni kweendawo eztshintshileyo okanye eziphazanyisiweyo, kunye neenkonzo ezikhoyo.

- Ukusetyenziswa kwezixokelelwano zamanzi ezisondeleleneyo ezingabandakanyi ukusetyenziswa kweklorini yebiocides ngako oko nakuphi na uncoliseko olunokubakho kummandla wolwandle.

Ukuthoba

- Uyilo Iwee-Powerships lubonelela ngokunciphisa ingxolo eyakhelwe-ngaphakathi umz. i-hull ephindwe kabini kunye ne-anti-vibration mounts;

- Ukulawulwa kwezantya zamanzi angaguqukiyo nokubekwa kwamanzi angena kuwo ngaphandle kwemeko-bume epholileyo ukunciphisa iimpembelelo kwi-ikhosistim yowlandle;

- Ukulinganisa okuhamba ngeenqanawa kunye nezivumelwano ze-TNPA malunga neFSRU nokubekwa kwePowership zaqinisekisa eyona ndawo igqwesileyo yenqanawa ukunqanda ukungqubana kwezithuthi zaselwandle nokulungelelanisa nokucwangciswa kweZibuko le-TNPA.

- Imilinganiselo eyahlukenyi iye yamiselwa ngokweEMPr yesigaba sokwakha nesokusebenza ukunciphisa iimpembelelo.

Ukubuyisela kwisimo sangaphambili

Ukubuyisela kwisimo sangaphambili kuchaziwe kuyo nayiphi na indawo ethe yaphazamiseka ngexesha lolwakhiwo ngokwemiqathango enikelwe kwi-EMPr. Umzekelo, ngokumalunga nokubuyisela kwisimo sangaphambili somgxobhozo, ukuba amanyathelo okubuyisela kwisimo sangaphambili aphanyeze ngempumelelo, malunga neehktare ezingama-23.3 ezilingana nemigxobhozo ziya kuphculwa xa kuthelekiswa nemeko yangoku.

Okunye, i-EMPr necebo lokubuyisela kwisimo sangaphambili sikwabonelela ngokulondolozwa kweendawo ukuthintela ukuthotywa komgangatho wayo ngeli xesha kusetyenzwa.

10. Isiphelo noMkhombandlela

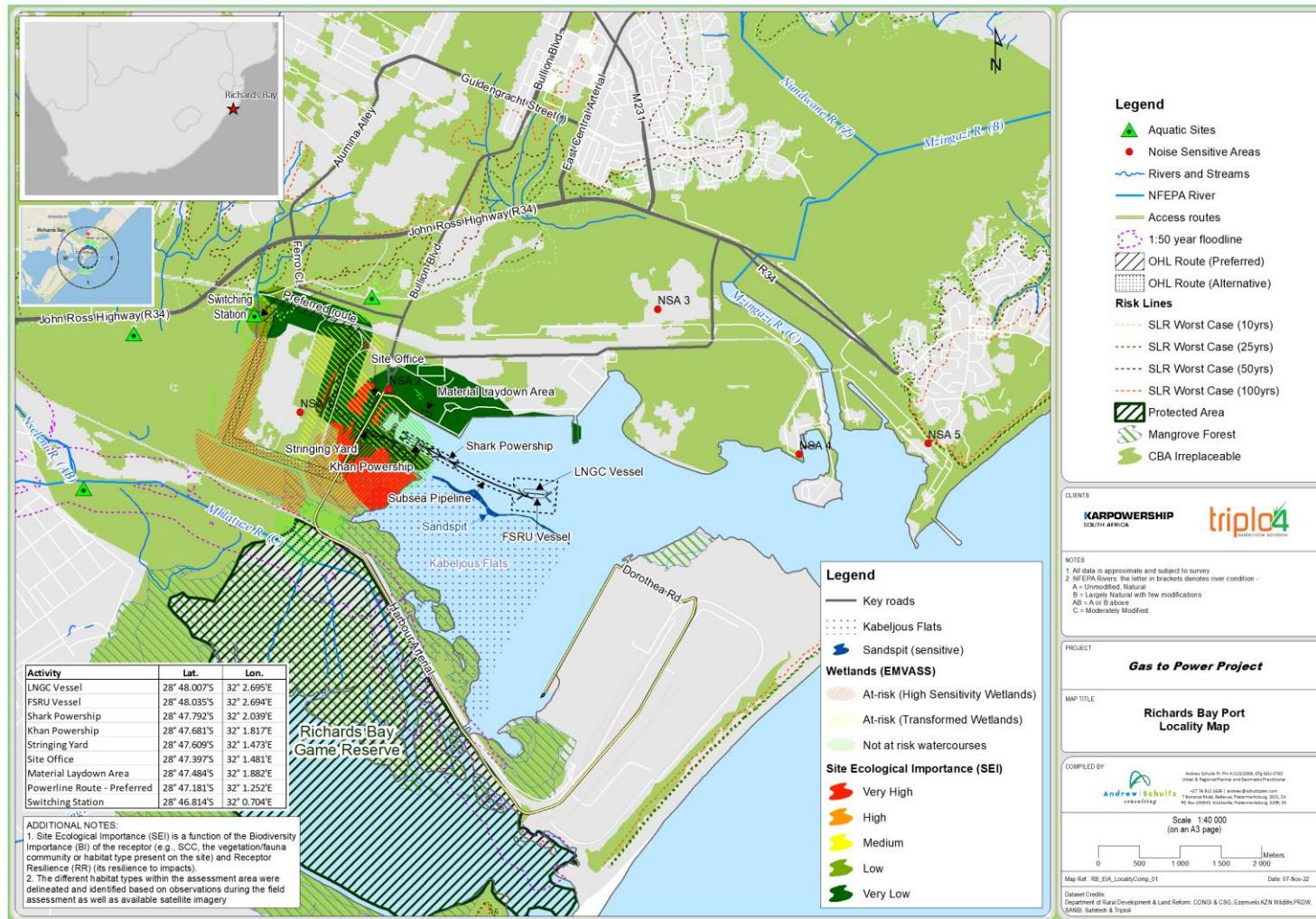
Olu qulunqo lweNgxelo ye-EIAR ichonge yaze yavavanya iimpembelelo ezinokuthi zibe kho kwibhayoloji nakwintlalo-qoqosho eyayanyaniswa neProjekthi eCetywayo yeNqanawe ephehla uMbane owensiwe ngeRhasi kwiZibuko laseRichards Bay.

ILuluvo lweqela leprojekthi ye-EIA, ebandakanya abasayinileyo apha ngezantsi, ukuba onke amacandelo esi sicelo, kubandakanya i-EIR eneengxelo eziqhotoyoshelweyo zeengcali ezizimeleyo, i-EMPr, inkubo yentatho-nxaxheba yoluntu kanye namaxwebhu axhasayo ukuthobela izikhokelo ezifanelekileyo kwaye iqulathe lonke ulwazi olufunekayo ngokwemigaqo ye-GN 982 ukwenza isigqibo esisekelwe kulwazi ngugunyaziwe ofanelekileyo.

Luluvo oluqiqiweyo lwe-EAP lokuba iprojekthi yeRhasi eyenza uMbane kwiNqanawe ephehla uMbane yamkelekile, ayisayi kudala iimpembelelo ezingamkelekanga kokusingqongileyo kwaye

inokugunyazisa ngokufanelekileyo
ngokuxhomekeke ekuphunyezweni kwemilinganiselo yokunciphisa kanye nolawulo ebekwe kwi-EMPr. Olu luvo lufikelelw ngokuthathelwa ingqalelo kwezi:

- uphononongo lweengcali ezizimeleyo, ingcali nganye iqukumbela uvavanyo lwayo ngengxelo exhasayo yophuhliso olucetywayo (okt. akukho ziphene zibulalayo zichongiwe),
- amagalelo azimeleyo kwimfuno kanye nomnqweno,
- iimpembelelo ezichongiweyo ngokwembono enku lu yendalo, yentlalo, yoqoqosho neyenkcubeko ngokwejografi, ngokwasemzimbeni, ngokwebhayoloji, ngokwentlalo, ngokoqoqosho nangokwenkcubeko;
- Urukwazi ukunqanda okanye ukunciphisa iimpembelelo ezingalunganga nokwandisa iimpembelelo ezilungileyo, ngokusebenzisa phakathi kwezinye izinto isicwangciso sophuhliso lwentlalo, noqoqosho, nokuncitshiswa kocimicimi wombane.



Umzobo 0 5: Isishwankathelo seNdawo yeProjekthi – iGesi ukuya kuMbane ngePowership kwiPort of Richards Bay